

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: P673244

Luminaire Tested: **CCP-SA-1E-730-U-T3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673244  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-730-U-T3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

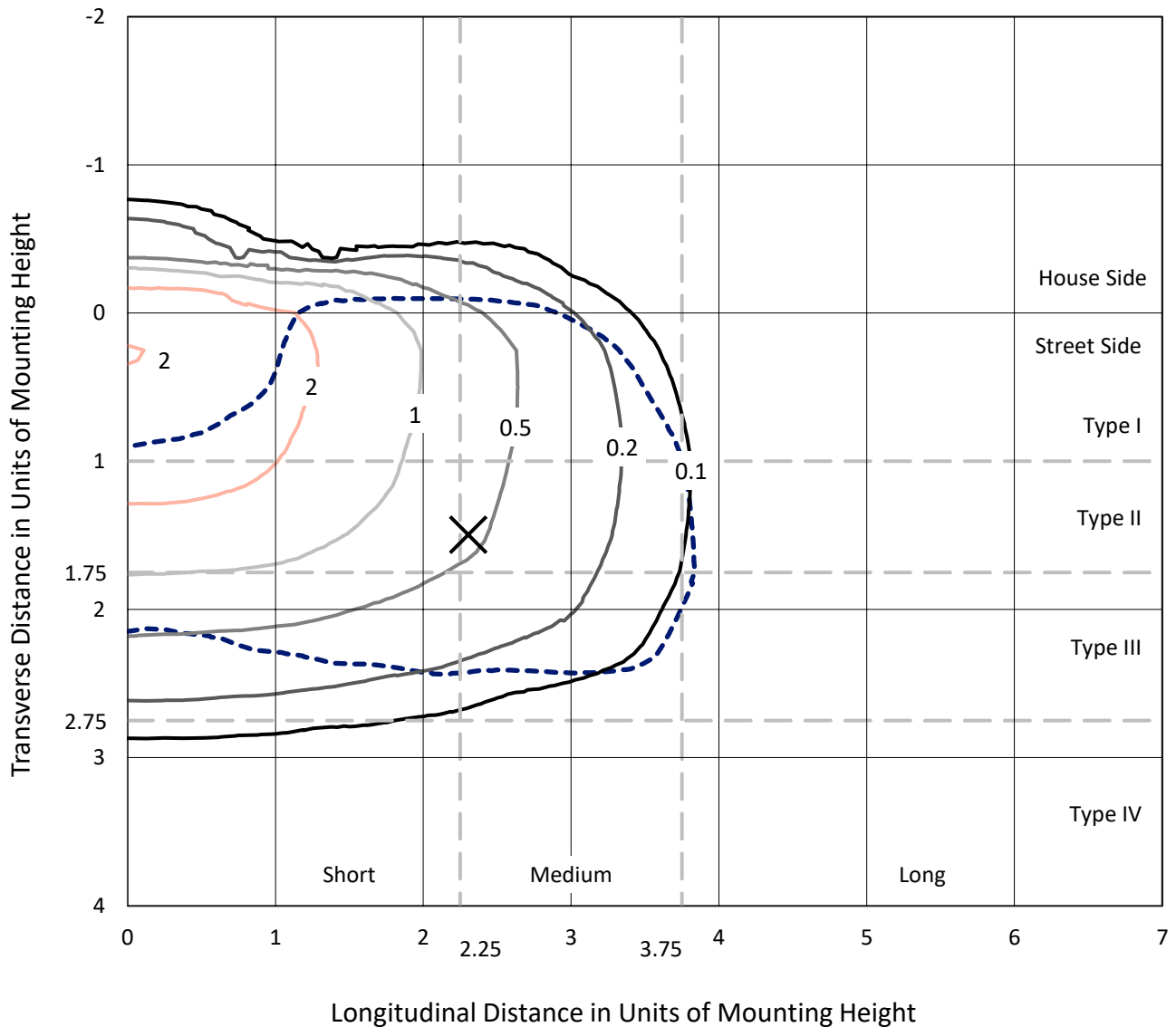
Lumens per Lamp: N/A  
Luminaire Lumens: 4485.1 lumens  
Efficiency: N/A  
Efficacy: 79.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

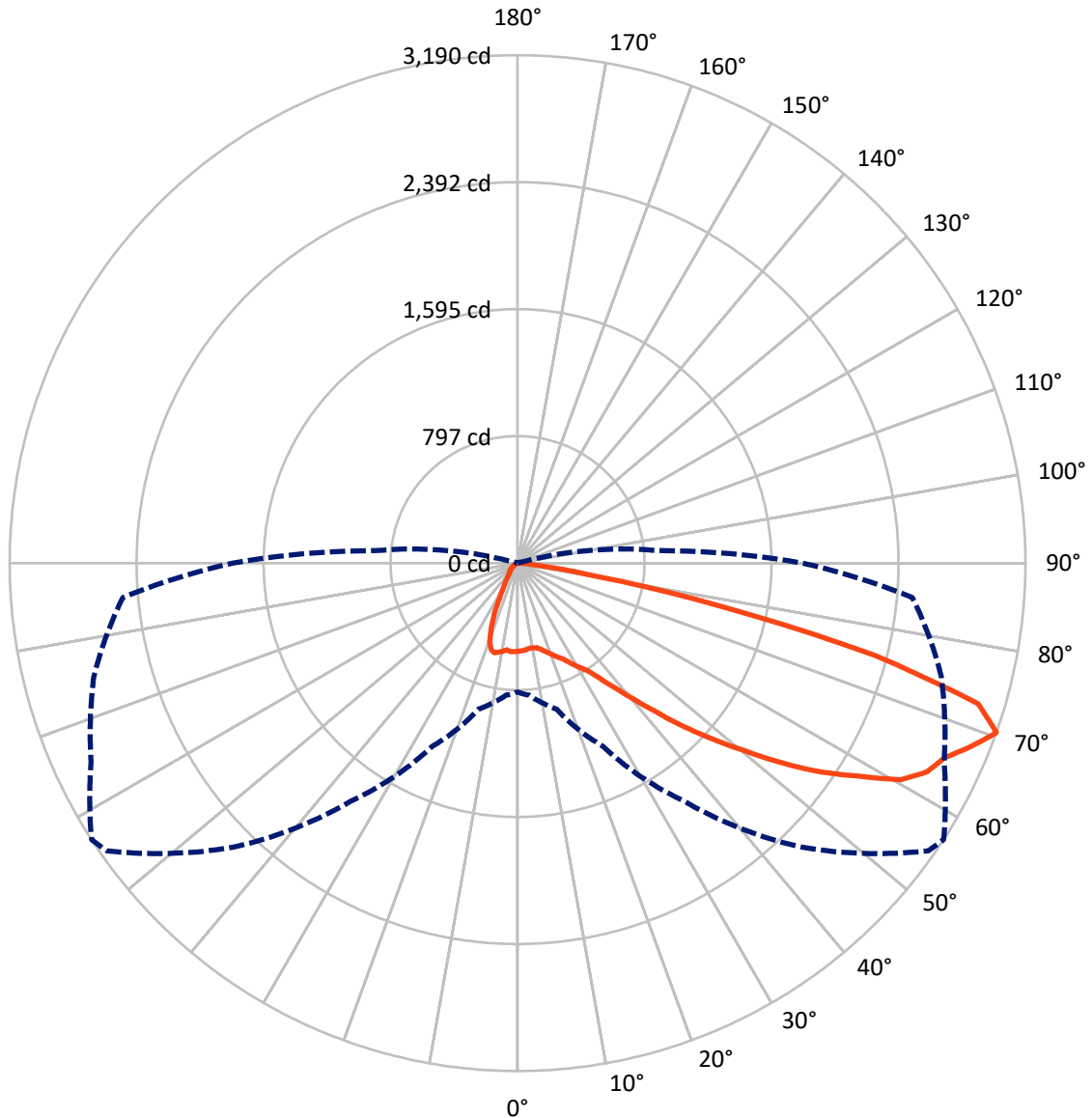
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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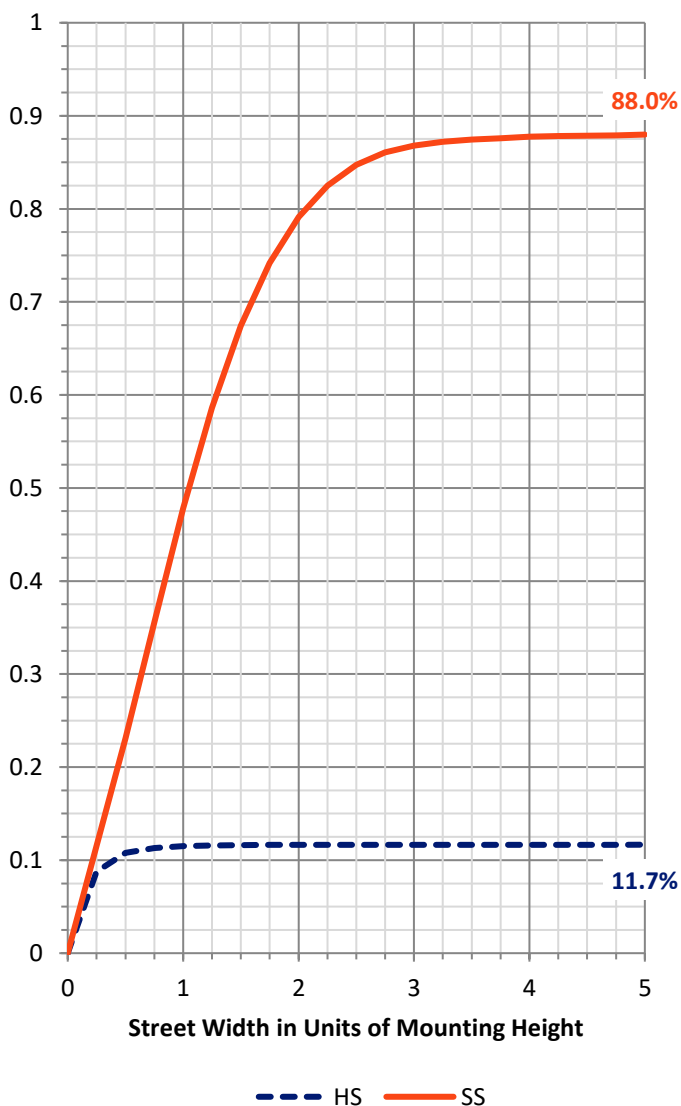
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 528.7    | 0.0    | 528.7  |
|                    | % Fixture | 11.8     | 0.0    | 11.8   |
| <b>Street Side</b> | Lumens    | 3956.5   | 0.0    | 3956.5 |
|                    | % Fixture | 88.2     | 0.0    | 88.2   |
| <b>Total</b>       | Lumens    | 4485.1   | 0.0    | 4485.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 51.7   | 1.2       |
| 10°-20°   | 144.6  | 3.2       |
| 20°-30°   | 243.6  | 5.4       |
| 30°-40°   | 416.8  | 9.3       |
| 40°-50°   | 699.9  | 15.6      |
| 50°-60°   | 1074.4 | 24.0      |
| 60°-70°   | 1240.4 | 27.7      |
| 70°-80°   | 585.9  | 13.1      |
| 80°-90°   | 27.8   | 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°    | 4485.1 | 100.0     |
| 0°-180°   | 4485.1 | 100.0     |



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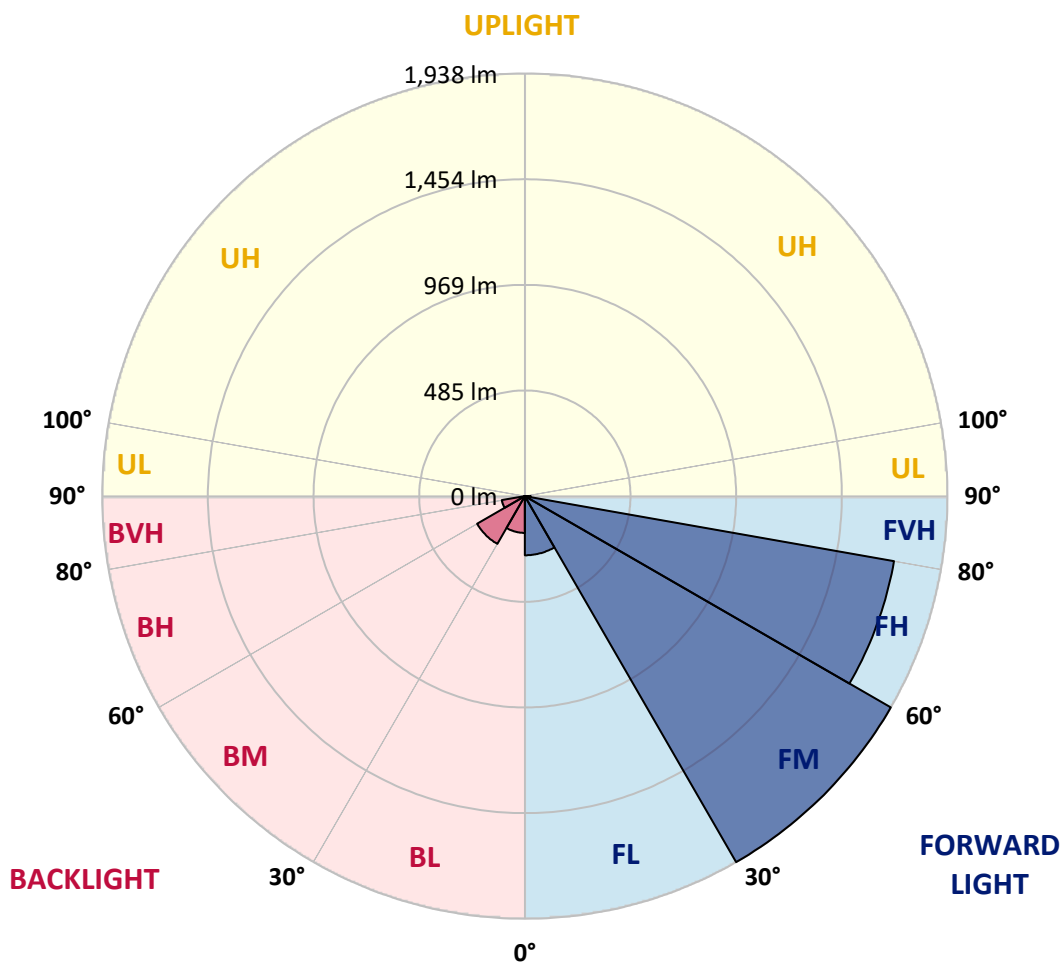
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 271.3  | 6.0       |                         |      |         |
| FM (30°-60°)   | 1938.4 | 43.2      |                         |      |         |
| FH (60°-80°)   | 1719.4 | 38.3      |                         |      | G1/1800 |
| FVH (80°-90°)  | 27.3   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 168.5  | 3.8       | B1/500                  |      |         |
| BM (30°-60°)   | 252.7  | 5.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 106.9  | 2.4       | 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: B1-U0-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 553.4  | 553.4  | 553.4  | 553.4  | 553.4  | 553.4  | 553.4  | 553.4  | 553.4  | 553.4  | 553.4  |
| 2.5°  | 545.4  | 541.9  | 545.4  | 550.0  | 545.4  | 548.8  | 547.7  | 551.1  | 546.5  | 546.5  | 550.0  |
| 5°    | 509.9  | 515.6  | 517.9  | 523.6  | 529.3  | 539.7  | 546.5  | 546.5  | 553.4  | 556.8  | 561.4  |
| 7.5°  | 497.3  | 488.1  | 497.3  | 501.8  | 507.6  | 524.8  | 535.1  | 539.7  | 548.8  | 561.4  | 568.3  |
| 10°   | 478.9  | 485.8  | 485.8  | 500.7  | 508.7  | 519.0  | 537.4  | 540.8  | 561.4  | 574.0  | 580.9  |
| 12.5° | 477.8  | 477.8  | 483.5  | 493.8  | 509.9  | 529.3  | 552.3  | 545.4  | 567.2  | 590.1  | 601.5  |
| 15°   | 481.2  | 489.2  | 489.2  | 503.0  | 515.6  | 543.1  | 562.6  | 563.7  | 594.7  | 617.6  | 627.9  |
| 17.5° | 496.1  | 492.7  | 497.3  | 505.3  | 524.8  | 551.1  | 583.2  | 586.6  | 622.2  | 653.1  | 668.0  |
| 20°   | 527.1  | 532.8  | 525.9  | 521.3  | 529.3  | 563.7  | 605.0  | 611.8  | 651.9  | 681.7  | 696.6  |
| 22.5° | 642.8  | 638.2  | 610.7  | 578.6  | 564.9  | 580.9  | 625.6  | 641.6  | 688.6  | 724.1  | 736.7  |
| 25°   | 773.4  | 765.4  | 733.3  | 685.2  | 622.2  | 615.3  | 666.8  | 666.8  | 734.4  | 773.4  | 770.0  |
| 27.5° | 897.1  | 894.8  | 857.0  | 806.6  | 717.3  | 668.0  | 700.1  | 712.7  | 786.0  | 818.1  | 803.2  |
| 30°   | 1023.2 | 1025.5 | 991.1  | 930.4  | 836.4  | 752.8  | 747.0  | 757.4  | 825.0  | 875.4  | 844.4  |
| 32.5° | 1169.8 | 1149.2 | 1125.1 | 1041.5 | 955.6  | 861.6  | 807.8  | 803.2  | 868.5  | 914.3  | 873.1  |
| 35°   | 1300.5 | 1287.8 | 1261.5 | 1185.9 | 1087.3 | 975.1  | 899.4  | 888.0  | 923.5  | 984.2  | 939.5  |
| 37.5° | 1415.0 | 1402.4 | 1368.1 | 1317.6 | 1240.9 | 1116.0 | 1009.4 | 992.2  | 1007.1 | 1071.3 | 1017.4 |
| 40°   | 1513.6 | 1517.0 | 1507.8 | 1458.6 | 1387.5 | 1274.1 | 1151.5 | 1124.0 | 1111.4 | 1168.7 | 1108.0 |
| 42.5° | 1584.6 | 1617.8 | 1620.1 | 1559.4 | 1502.1 | 1440.2 | 1302.7 | 1281.0 | 1251.2 | 1299.3 | 1256.9 |
| 45°   | 1733.6 | 1715.2 | 1726.7 | 1704.9 | 1641.9 | 1632.7 | 1476.9 | 1464.3 | 1423.0 | 1439.1 | 1394.4 |
| 47.5° | 1850.4 | 1847.0 | 1868.8 | 1833.2 | 1816.0 | 1817.2 | 1675.1 | 1653.3 | 1594.9 | 1624.7 | 1574.3 |
| 50°   | 1918.0 | 1899.7 | 1978.7 | 2006.2 | 2002.8 | 2016.6 | 1875.6 | 1857.3 | 1801.2 | 1844.7 | 1737.0 |
| 52.5° | 1934.1 | 1967.3 | 2041.8 | 2141.4 | 2183.8 | 2212.5 | 2094.5 | 2087.6 | 2026.9 | 2054.4 | 1905.4 |
| 55°   | 1974.2 | 2006.2 | 2049.8 | 2213.6 | 2370.6 | 2377.5 | 2309.9 | 2316.7 | 2262.9 | 2256.0 | 2065.8 |
| 57.5° | 1973.0 | 1966.1 | 2086.4 | 2276.6 | 2494.3 | 2592.9 | 2556.2 | 2523.0 | 2464.6 | 2397.0 | 2168.9 |
| 60°   | 1900.8 | 1897.4 | 2022.3 | 2284.7 | 2561.9 | 2787.7 | 2802.6 | 2763.6 | 2616.9 | 2517.3 | 2290.4 |
| 62.5° | 1757.6 | 1771.4 | 1897.4 | 2215.9 | 2626.1 | 2857.6 | 2912.6 | 2886.2 | 2704.0 | 2597.5 | 2433.6 |
| 65°   | 1593.8 | 1565.1 | 1711.8 | 2044.1 | 2481.7 | 2836.9 | 2956.1 | 2946.9 | 2807.1 | 2684.5 | 2565.4 |
| 67.5° | 1278.7 | 1291.3 | 1403.6 | 1758.8 | 2235.4 | 2761.3 | 3058.1 | 3071.8 | 2889.6 | 2761.3 | 2605.5 |
| 70°   | 810.1  | 833.0  | 949.8  | 1270.7 | 1825.2 | 2523.0 | 3149.7 | 3189.8 | 2954.9 | 2754.4 | 2488.6 |
| 72.5° | 236.0  | 245.2  | 404.5  | 633.6  | 1163.0 | 2023.4 | 3003.1 | 3023.7 | 2827.8 | 2500.1 | 1924.9 |
| 75°   | 77.9   | 82.5   | 119.2  | 206.2  | 456.0  | 1046.1 | 2218.2 | 2315.6 | 2250.3 | 1812.6 | 1101.1 |
| 77.5° | 51.6   | 53.9   | 65.3   | 98.5   | 173.0  | 327.7  | 1189.3 | 1293.6 | 1268.4 | 849.0  | 355.2  |
| 80°   | 37.8   | 39.0   | 48.1   | 66.5   | 105.4  | 118.0  | 438.8  | 507.6  | 490.4  | 194.8  | 71.0   |
| 82.5° | 24.1   | 24.1   | 35.5   | 47.0   | 66.5   | 58.4   | 127.2  | 140.9  | 137.5  | 74.5   | 27.5   |
| 85°   | 16.0   | 17.2   | 26.4   | 36.7   | 36.7   | 27.5   | 36.7   | 42.4   | 45.8   | 40.1   | 12.6   |
| 87.5° | 4.6    | 5.7    | 14.9   | 25.2   | 14.9   | 13.7   | 12.6   | 13.7   | 16.0   | 21.8   | 6.9    |
| 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°    | 553.4  | 553.4  | 553.4 | 553.4 | 553.4 | 553.4 | 553.4 | 553.4 | 553.4 | 553.4 | 553.4 |
| 2.5°  | 553.4  | 558.0  | 556.8 | 559.1 | 555.7 | 552.3 | 555.7 | 555.7 | 555.7 | 552.3 | 550.0 |
| 5°    | 558.0  | 555.7  | 558.0 | 553.4 | 558.0 | 553.4 | 551.1 | 544.2 | 543.1 | 543.1 | 547.7 |
| 7.5°  | 564.9  | 567.2  | 556.8 | 556.8 | 546.5 | 548.8 | 543.1 | 544.2 | 541.9 | 538.5 | 536.2 |
| 10°   | 575.2  | 584.3  | 574.0 | 570.6 | 559.1 | 550.0 | 536.2 | 529.3 | 529.3 | 524.8 | 529.3 |
| 12.5° | 603.8  | 600.4  | 594.7 | 583.2 | 569.4 | 551.1 | 517.9 | 484.7 | 457.2 | 436.5 | 446.9 |
| 15°   | 626.7  | 625.6  | 617.6 | 595.8 | 577.5 | 521.3 | 437.7 | 351.8 | 305.9 | 285.3 | 281.9 |
| 17.5° | 662.3  | 658.8  | 645.1 | 616.4 | 555.7 | 432.0 | 300.2 | 228.0 | 183.3 | 173.0 | 169.6 |
| 20°   | 695.5  | 694.3  | 664.5 | 627.9 | 500.7 | 315.1 | 195.9 | 150.1 | 137.5 | 138.6 | 136.3 |
| 22.5° | 731.0  | 725.3  | 689.8 | 614.1 | 398.7 | 209.7 | 139.8 | 134.1 | 129.5 | 128.3 | 130.6 |
| 25°   | 771.1  | 750.5  | 715.0 | 583.2 | 293.3 | 144.4 | 131.8 | 127.2 | 122.6 | 121.5 | 121.5 |
| 27.5° | 787.1  | 773.4  | 726.4 | 508.7 | 185.6 | 126.0 | 123.7 | 118.0 | 112.3 | 108.8 | 107.7 |
| 30°   | 823.8  | 800.9  | 737.9 | 399.9 | 131.8 | 115.7 | 112.3 | 105.4 | 97.4  | 91.7  | 91.7  |
| 32.5° | 860.5  | 833.0  | 739.0 | 279.6 | 110.0 | 104.3 | 98.5  | 89.4  | 79.1  | 73.3  | 74.5  |
| 35°   | 906.3  | 868.5  | 726.4 | 181.0 | 98.5  | 91.7  | 80.2  | 69.9  | 60.7  | 56.1  | 56.1  |
| 37.5° | 984.2  | 948.7  | 674.9 | 119.2 | 89.4  | 77.9  | 66.5  | 55.0  | 47.0  | 43.5  | 43.5  |
| 40°   | 1082.8 | 1036.9 | 603.8 | 94.0  | 79.1  | 66.5  | 52.7  | 42.4  | 37.8  | 34.4  | 34.4  |
| 42.5° | 1200.8 | 1143.5 | 498.4 | 83.6  | 69.9  | 55.0  | 41.2  | 33.2  | 28.6  | 28.6  | 27.5  |
| 45°   | 1318.8 | 1224.8 | 390.7 | 76.8  | 61.9  | 45.8  | 32.1  | 26.4  | 24.1  | 22.9  | 22.9  |
| 47.5° | 1487.2 | 1323.4 | 279.6 | 69.9  | 53.9  | 35.5  | 26.4  | 21.8  | 19.5  | 18.3  | 19.5  |
| 50°   | 1648.8 | 1416.2 | 198.2 | 63.0  | 44.7  | 28.6  | 21.8  | 19.5  | 17.2  | 16.0  | 16.0  |
| 52.5° | 1790.8 | 1480.3 | 138.6 | 55.0  | 37.8  | 24.1  | 19.5  | 17.2  | 16.0  | 14.9  | 14.9  |
| 55°   | 1868.8 | 1458.6 | 95.1  | 47.0  | 30.9  | 20.6  | 17.2  | 14.9  | 13.7  | 12.6  | 12.6  |
| 57.5° | 1949.0 | 1397.8 | 72.2  | 39.0  | 25.2  | 19.5  | 16.0  | 13.7  | 12.6  | 11.5  | 11.5  |
| 60°   | 2016.6 | 1353.2 | 56.1  | 30.9  | 20.6  | 16.0  | 13.7  | 11.5  | 10.3  | 9.2   | 8.0   |
| 62.5° | 2020.0 | 1263.8 | 41.2  | 22.9  | 16.0  | 13.7  | 11.5  | 9.2   | 5.7   | 4.6   | 3.4   |
| 65°   | 2033.7 | 1169.8 | 29.8  | 17.2  | 11.5  | 10.3  | 8.0   | 4.6   | 2.3   | 0.0   | 0.0   |
| 67.5° | 1985.6 | 1058.7 | 24.1  | 12.6  | 8.0   | 5.7   | 3.4   | 1.1   | 0.0   | 0.0   | 0.0   |
| 70°   | 1789.7 | 893.7  | 18.3  | 9.2   | 5.7   | 3.4   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1281.0 | 580.9  | 12.6  | 6.9   | 2.3   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 682.9  | 247.5  | 9.2   | 4.6   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 214.3  | 63.0   | 5.7   | 2.3   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 47.0   | 17.2   | 3.4   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 16.0   | 6.9    | 2.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 5.7    | 2.3    | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.3    | 1.1    | 1.1   | 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)