

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: P674553

Luminaire Tested: **CCP-SA-2A-735-U-T2R-HSS**

Issue Date: 04/16/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P674553  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-735-U-T2R-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T2R  
distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

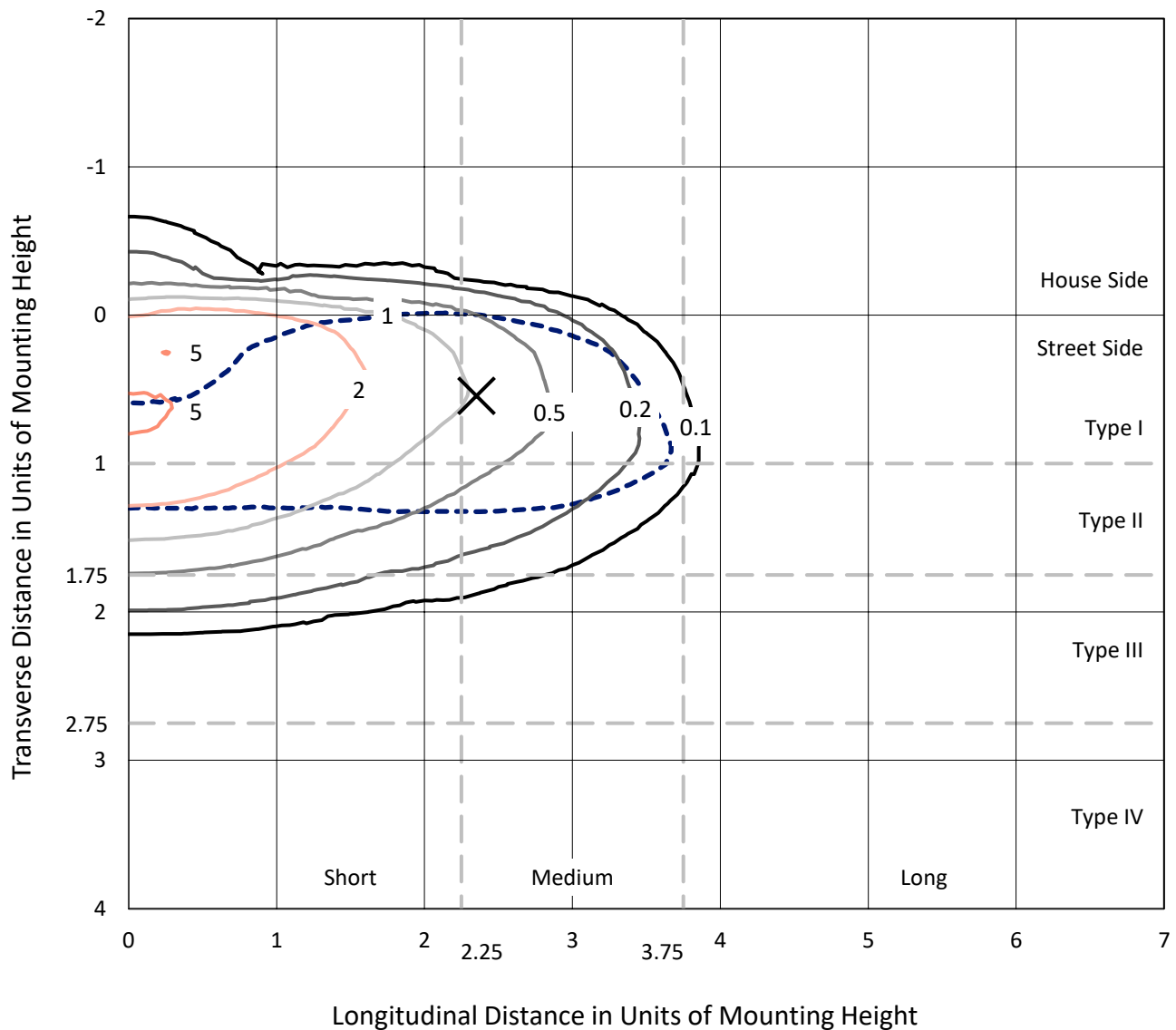
Lumens per Lamp: N/A  
Luminaire Lumens: 4369.7 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 36.2  
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

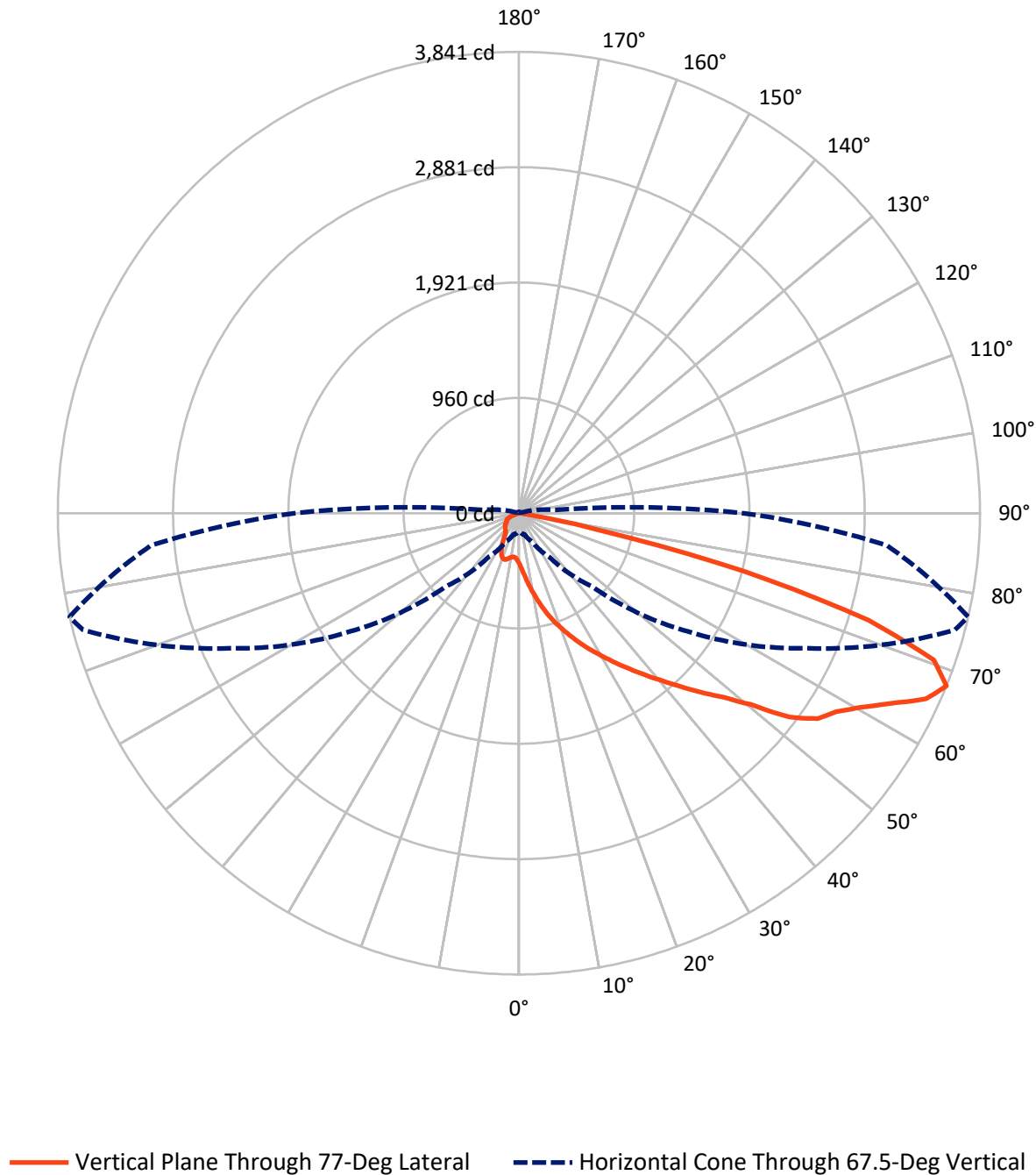
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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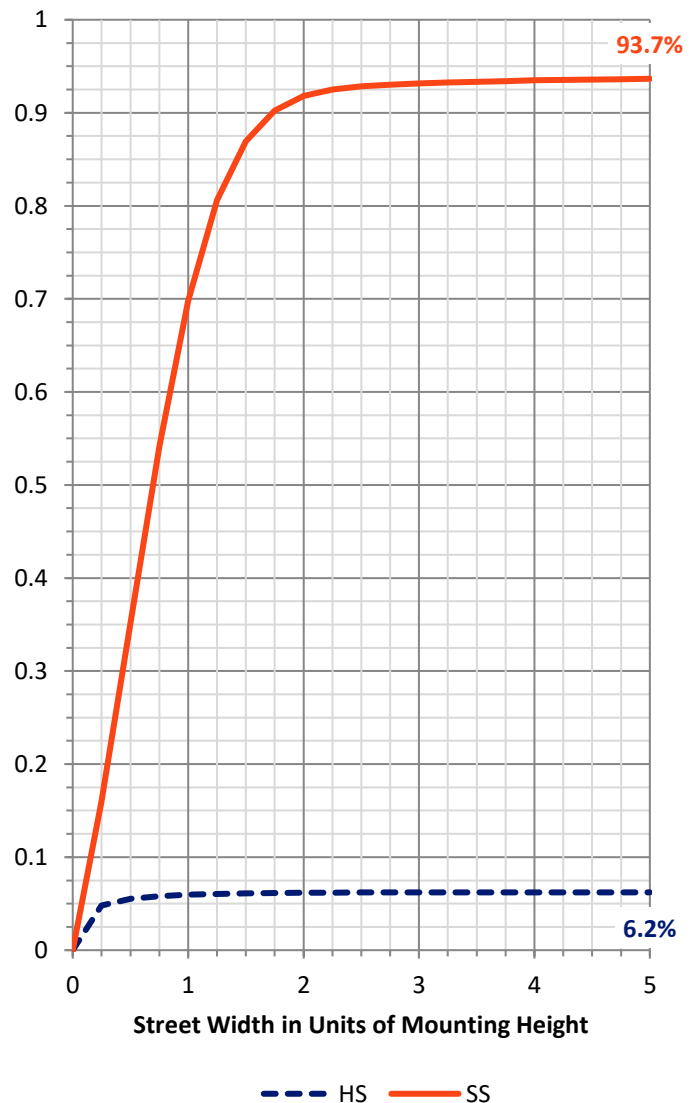
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 273.1    | 0.0    | 273.1  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 4096.6   | 0.0    | 4096.6 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 4369.7   | 0.0    | 4369.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.2   | 1.1       |
| 10°-20°   | 181.9  | 4.2       |
| 20°-30°   | 355.4  | 8.1       |
| 30°-40°   | 621.3  | 14.2      |
| 40°-50°   | 906.1  | 20.7      |
| 50°-60°   | 1059.6 | 24.2      |
| 60°-70°   | 858.9  | 19.7      |
| 70°-80°   | 322.7  | 7.4       |
| 80°-90°   | 14.7   | 0.3       |
| 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°    | 4369.7 | 100.0     |
| 0°-180°   | 4369.7 | 100.0     |

**Coefficient of Utilization**



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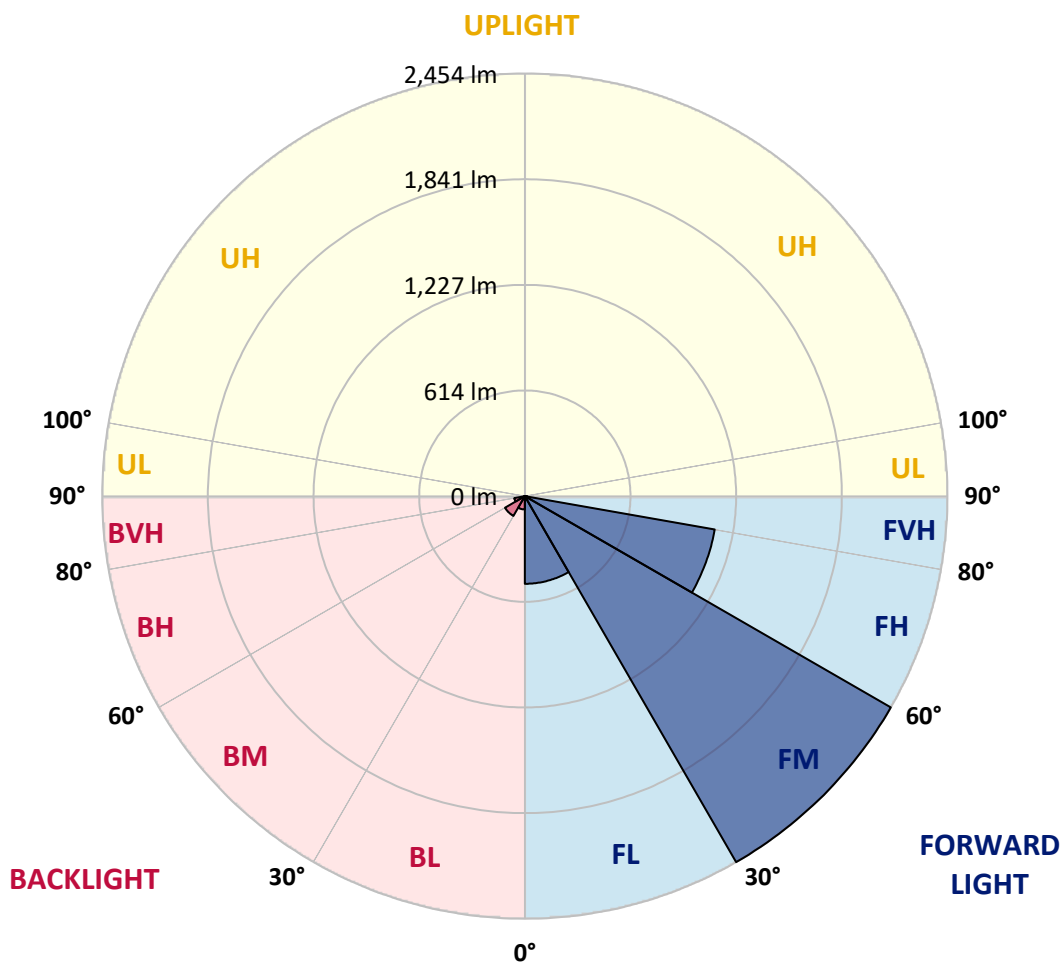
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 509.0  | 11.6      |                         |      |         |
| FM   | (30°-60°)   | 2454.1 | 56.2      |                         |      |         |
| FH   | (60°-80°)   | 1119.7 | 25.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 13.8   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 77.4   | 1.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 132.9  | 3.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 61.9   | 1.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.9    | 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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 77°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 418.5  | 418.5  | 418.5  | 418.5  | 418.5  | 418.5  | 418.5  | 418.5  | 418.5  | 418.5  | 418.5  |
| 2.5°  | 628.4  | 605.5  | 609.9  | 600.4  | 588.2  | 559.8  | 529.8  | 499.8  | 473.0  | 467.1  | 440.2  |
| 5°    | 804.7  | 797.6  | 790.1  | 783.8  | 758.2  | 722.7  | 668.6  | 600.0  | 538.1  | 527.4  | 471.8  |
| 7.5°  | 941.6  | 931.0  | 937.7  | 918.3  | 891.5  | 857.2  | 788.5  | 715.2  | 619.7  | 603.9  | 517.5  |
| 10°   | 1042.6 | 1036.7 | 1039.8 | 1030.8 | 1017.7 | 983.4  | 915.6  | 823.7  | 713.2  | 683.2  | 568.8  |
| 12.5° | 1118.3 | 1119.5 | 1133.3 | 1134.1 | 1123.5 | 1095.4 | 1023.7 | 927.8  | 798.0  | 771.2  | 625.6  |
| 15°   | 1173.6 | 1174.7 | 1191.7 | 1209.8 | 1222.1 | 1207.5 | 1142.4 | 1035.1 | 897.8  | 861.1  | 685.2  |
| 17.5° | 1182.6 | 1183.4 | 1213.4 | 1250.1 | 1288.0 | 1300.6 | 1250.5 | 1141.6 | 988.9  | 947.1  | 753.4  |
| 20°   | 1188.5 | 1195.2 | 1222.1 | 1264.3 | 1324.2 | 1363.3 | 1336.1 | 1243.8 | 1077.3 | 1028.8 | 820.5  |
| 22.5° | 1260.3 | 1260.3 | 1276.1 | 1306.1 | 1353.8 | 1415.0 | 1409.4 | 1337.7 | 1163.3 | 1115.2 | 887.2  |
| 25°   | 1412.6 | 1412.6 | 1397.2 | 1389.3 | 1415.0 | 1463.1 | 1476.9 | 1437.8 | 1261.5 | 1204.7 | 957.4  |
| 27.5° | 1614.2 | 1614.2 | 1590.1 | 1532.1 | 1510.0 | 1530.2 | 1544.8 | 1525.0 | 1352.2 | 1296.2 | 1031.5 |
| 30°   | 1823.2 | 1830.3 | 1788.5 | 1714.8 | 1637.5 | 1622.1 | 1607.9 | 1603.5 | 1448.9 | 1385.8 | 1106.9 |
| 32.5° | 2033.1 | 2032.3 | 1980.2 | 1888.3 | 1787.4 | 1732.9 | 1686.8 | 1681.6 | 1551.5 | 1489.5 | 1178.3 |
| 35°   | 2200.8 | 2201.2 | 2146.3 | 2052.0 | 1935.3 | 1865.9 | 1791.7 | 1767.6 | 1663.9 | 1594.8 | 1263.5 |
| 37.5° | 2345.9 | 2337.6 | 2278.5 | 2188.9 | 2080.0 | 2008.3 | 1915.9 | 1853.2 | 1780.3 | 1710.0 | 1348.7 |
| 40°   | 2429.2 | 2418.1 | 2360.5 | 2275.3 | 2192.9 | 2138.0 | 2056.8 | 1956.6 | 1908.1 | 1832.3 | 1445.7 |
| 42.5° | 2441.4 | 2431.9 | 2393.7 | 2342.4 | 2274.9 | 2226.8 | 2205.1 | 2073.3 | 2042.2 | 1973.5 | 1561.7 |
| 45°   | 2407.1 | 2391.7 | 2379.1 | 2352.2 | 2333.3 | 2310.0 | 2339.6 | 2197.6 | 2196.0 | 2127.8 | 1676.5 |
| 47.5° | 2321.9 | 2301.0 | 2304.1 | 2333.7 | 2355.0 | 2375.9 | 2468.2 | 2360.5 | 2351.1 | 2287.1 | 1827.2 |
| 50°   | 2176.3 | 2166.0 | 2200.8 | 2259.1 | 2343.6 | 2427.2 | 2596.4 | 2527.0 | 2564.5 | 2504.5 | 2035.1 |
| 52.5° | 1880.4 | 1893.1 | 1996.8 | 2137.2 | 2283.2 | 2451.2 | 2716.7 | 2775.5 | 2871.4 | 2822.1 | 2244.2 |
| 55°   | 1525.4 | 1520.7 | 1659.1 | 1908.5 | 2141.6 | 2435.9 | 2769.2 | 2921.9 | 3072.5 | 3020.9 | 2360.5 |
| 57.5° | 1228.8 | 1237.1 | 1330.6 | 1577.1 | 1901.4 | 2317.1 | 2781.4 | 2998.4 | 3153.4 | 3119.1 | 2468.2 |
| 60°   | 922.3  | 930.2  | 1015.4 | 1230.0 | 1581.8 | 2069.4 | 2680.4 | 3025.2 | 3305.3 | 3279.2 | 2640.2 |
| 62.5° | 587.0  | 597.2  | 682.8  | 891.5  | 1209.1 | 1684.4 | 2453.6 | 2997.2 | 3463.9 | 3485.6 | 2874.9 |
| 65°   | 288.8  | 297.8  | 360.9  | 520.7  | 808.3  | 1259.5 | 2137.2 | 2890.3 | 3665.8 | 3727.8 | 3063.1 |
| 67.5° | 159.8  | 164.1  | 185.8  | 265.1  | 450.9  | 863.9  | 1717.5 | 2661.9 | 3758.5 | 3841.4 | 3075.7 |
| 70°   | 124.3  | 125.4  | 133.7  | 154.6  | 219.7  | 506.9  | 1221.7 | 2281.6 | 3566.4 | 3666.6 | 2819.7 |
| 72.5° | 104.5  | 106.1  | 110.1  | 117.2  | 137.3  | 263.9  | 767.6  | 1763.3 | 3000.7 | 3046.1 | 2181.4 |
| 75°   | 76.5   | 78.9   | 89.9   | 96.3   | 108.5  | 160.2  | 338.5  | 1059.6 | 1983.0 | 1938.4 | 1220.5 |
| 77.5° | 64.3   | 66.3   | 69.0   | 78.1   | 89.5   | 109.3  | 118.7  | 444.2  | 807.1  | 701.8  | 320.3  |
| 80°   | 43.8   | 46.2   | 53.6   | 58.4   | 75.7   | 72.2   | 49.3   | 119.1  | 162.1  | 132.1  | 61.5   |
| 82.5° | 31.2   | 33.1   | 37.1   | 47.7   | 54.8   | 38.3   | 26.8   | 36.3   | 39.1   | 37.1   | 20.1   |
| 85°   | 9.9    | 12.6   | 26.8   | 39.4   | 29.6   | 13.0   | 17.0   | 13.8   | 12.2   | 11.8   | 7.9    |
| 87.5° | 2.0    | 2.0    | 13.4   | 15.8   | 11.8   | 6.7    | 5.9    | 4.3    | 5.5    | 5.5    | 4.3    |
| 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°    | 418.5  | 418.5 | 418.5 | 418.5 | 418.5 | 418.5 | 418.5 | 418.5 | 418.5 | 418.5 | 418.5 |
| 2.5°  | 427.6  | 409.9 | 384.2 | 360.2 | 335.7 | 318.3 | 306.1 | 293.9 | 289.1 | 287.2 | 282.0 |
| 5°    | 446.5  | 412.6 | 361.7 | 320.7 | 290.7 | 271.8 | 260.4 | 250.5 | 244.2 | 242.2 | 239.4 |
| 7.5°  | 473.8  | 424.8 | 351.9 | 304.5 | 274.6 | 254.0 | 235.5 | 214.2 | 197.2 | 190.5 | 187.8 |
| 10°   | 503.3  | 443.4 | 353.4 | 301.4 | 261.5 | 216.6 | 175.1 | 140.8 | 125.8 | 120.3 | 116.4 |
| 12.5° | 546.7  | 463.9 | 360.2 | 297.8 | 222.5 | 154.6 | 112.0 | 97.8  | 94.3  | 93.5  | 92.7  |
| 15°   | 590.1  | 492.7 | 371.2 | 274.2 | 166.1 | 105.3 | 93.1  | 88.0  | 86.0  | 84.0  | 84.0  |
| 17.5° | 633.9  | 520.3 | 375.5 | 228.0 | 114.8 | 91.1  | 84.8  | 80.5  | 77.3  | 75.7  | 74.6  |
| 20°   | 683.2  | 549.5 | 362.9 | 171.6 | 91.9  | 83.2  | 76.1  | 71.0  | 68.2  | 66.7  | 65.5  |
| 22.5° | 736.5  | 578.3 | 335.3 | 119.5 | 83.6  | 74.9  | 68.2  | 63.1  | 60.4  | 58.8  | 58.4  |
| 25°   | 786.6  | 603.1 | 291.1 | 89.9  | 75.3  | 67.1  | 60.7  | 56.4  | 54.4  | 52.9  | 52.5  |
| 27.5° | 838.3  | 624.4 | 233.5 | 79.3  | 68.6  | 60.7  | 54.4  | 50.9  | 48.9  | 47.7  | 47.3  |
| 30°   | 888.7  | 639.0 | 174.0 | 72.6  | 62.7  | 54.8  | 49.3  | 46.5  | 44.6  | 43.4  | 43.0  |
| 32.5° | 940.8  | 647.3 | 117.6 | 66.7  | 56.8  | 49.7  | 45.0  | 42.2  | 41.0  | 39.8  | 39.8  |
| 35°   | 990.9  | 646.1 | 84.8  | 61.1  | 52.1  | 45.0  | 40.6  | 38.7  | 38.3  | 37.1  | 37.1  |
| 37.5° | 1045.7 | 637.9 | 72.2  | 56.0  | 46.9  | 40.6  | 37.1  | 35.9  | 35.5  | 34.7  | 34.3  |
| 40°   | 1108.1 | 619.3 | 65.9  | 52.1  | 42.6  | 37.1  | 33.9  | 33.1  | 32.7  | 32.0  | 32.0  |
| 42.5° | 1176.3 | 595.3 | 62.3  | 47.7  | 39.1  | 33.5  | 31.2  | 30.0  | 29.6  | 28.8  | 28.8  |
| 45°   | 1255.6 | 572.4 | 60.0  | 43.4  | 35.9  | 30.8  | 28.4  | 27.2  | 26.8  | 26.0  | 26.0  |
| 47.5° | 1363.7 | 559.4 | 56.0  | 39.4  | 32.3  | 28.0  | 25.6  | 24.9  | 24.1  | 23.3  | 23.3  |
| 50°   | 1512.4 | 544.0 | 50.9  | 35.5  | 29.6  | 25.2  | 23.7  | 22.5  | 22.1  | 21.3  | 21.3  |
| 52.5° | 1634.7 | 511.2 | 45.8  | 31.6  | 26.4  | 23.3  | 21.7  | 20.9  | 20.1  | 19.7  | 19.7  |
| 55°   | 1677.7 | 473.0 | 40.6  | 28.4  | 24.1  | 21.7  | 20.1  | 19.3  | 18.9  | 18.5  | 18.5  |
| 57.5° | 1746.3 | 460.7 | 35.9  | 25.2  | 21.7  | 20.1  | 18.5  | 18.1  | 17.8  | 17.4  | 17.0  |
| 60°   | 1863.5 | 467.8 | 31.6  | 22.5  | 19.7  | 18.1  | 17.0  | 16.6  | 15.8  | 15.0  | 15.0  |
| 62.5° | 1977.1 | 459.2 | 26.8  | 19.7  | 17.0  | 16.2  | 15.0  | 14.2  | 12.6  | 11.4  | 10.7  |
| 65°   | 2004.7 | 401.2 | 23.3  | 16.6  | 14.2  | 13.4  | 12.2  | 10.7  | 8.3   | 6.7   | 6.7   |
| 67.5° | 1871.0 | 304.9 | 20.1  | 14.2  | 11.8  | 11.0  | 8.7   | 7.1   | 5.1   | 3.9   | 3.9   |
| 70°   | 1544.0 | 193.3 | 16.6  | 11.0  | 9.9   | 7.5   | 5.5   | 5.1   | 3.6   | 3.2   | 2.8   |
| 72.5° | 1114.0 | 105.7 | 13.8  | 9.1   | 7.1   | 4.7   | 3.9   | 3.2   | 2.4   | 1.6   | 1.6   |
| 75°   | 564.1  | 49.7  | 10.3  | 7.1   | 4.7   | 3.2   | 2.4   | 1.6   | 1.6   | 1.2   | 1.2   |
| 77.5° | 159.8  | 22.9  | 6.7   | 4.7   | 3.2   | 2.0   | 1.6   | 1.2   | 1.2   | 0.8   | 0.8   |
| 80°   | 31.6   | 11.4  | 4.3   | 3.2   | 2.4   | 1.6   | 1.2   | 0.8   | 0.8   | 0.4   | 0.4   |
| 82.5° | 11.4   | 5.9   | 3.2   | 2.4   | 2.0   | 1.6   | 0.8   | 0.4   | 0.4   | 0.0   | 0.0   |
| 85°   | 5.9    | 3.2   | 2.4   | 2.0   | 1.6   | 1.2   | 0.8   | 0.4   | 0.0   | 0.0   | 0.0   |
| 87.5° | 3.2    | 2.4   | 2.0   | 2.0   | 1.6   | 1.2   | 0.8   | 0.4   | 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)