

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: P677350

Luminaire Tested: **CCW-SA-1C-840-U-SLL-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677350  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-840-U-SLL-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SLL distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

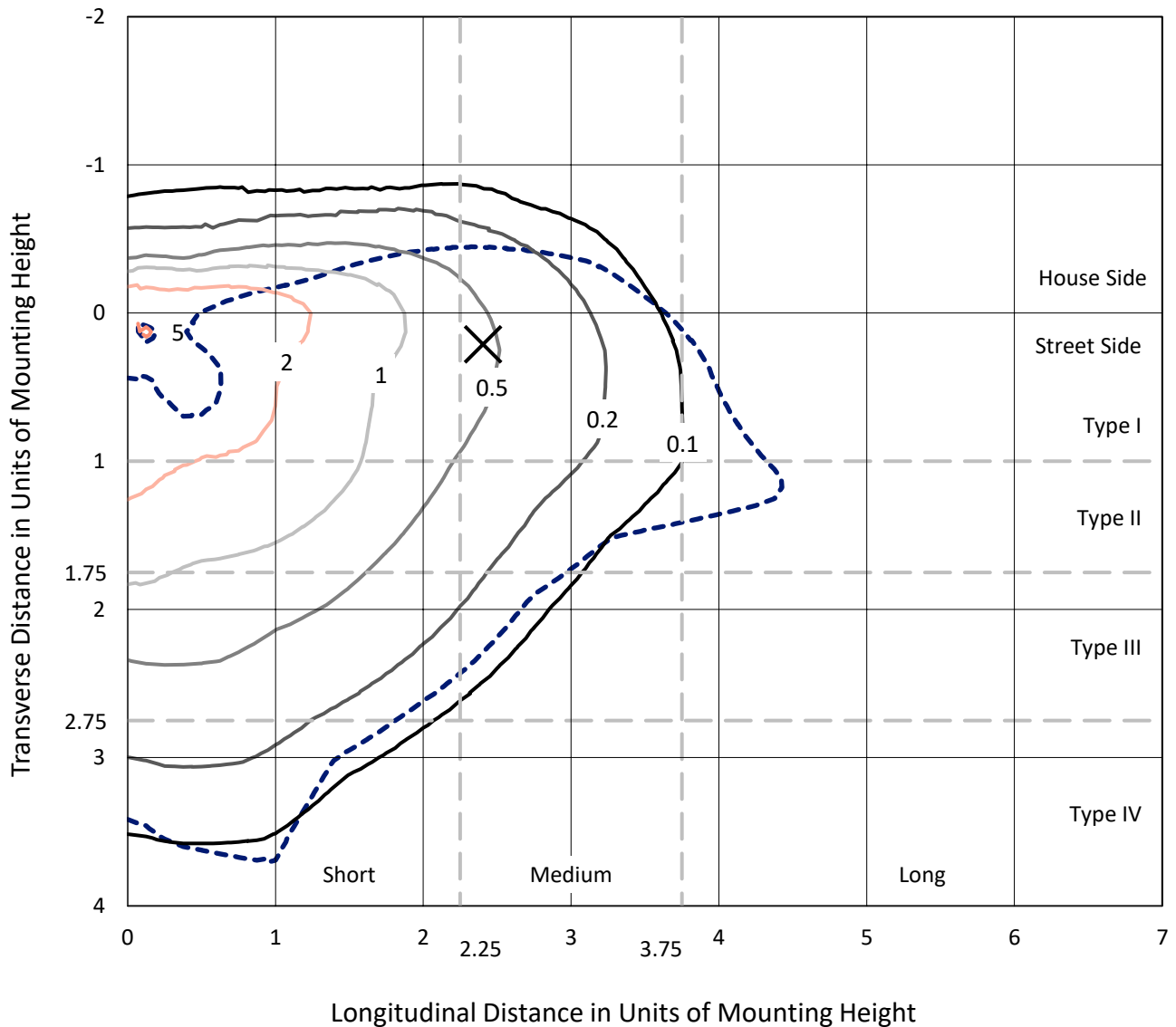
Lumens per Lamp: N/A  
Luminaire Lumens: 2796.8 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

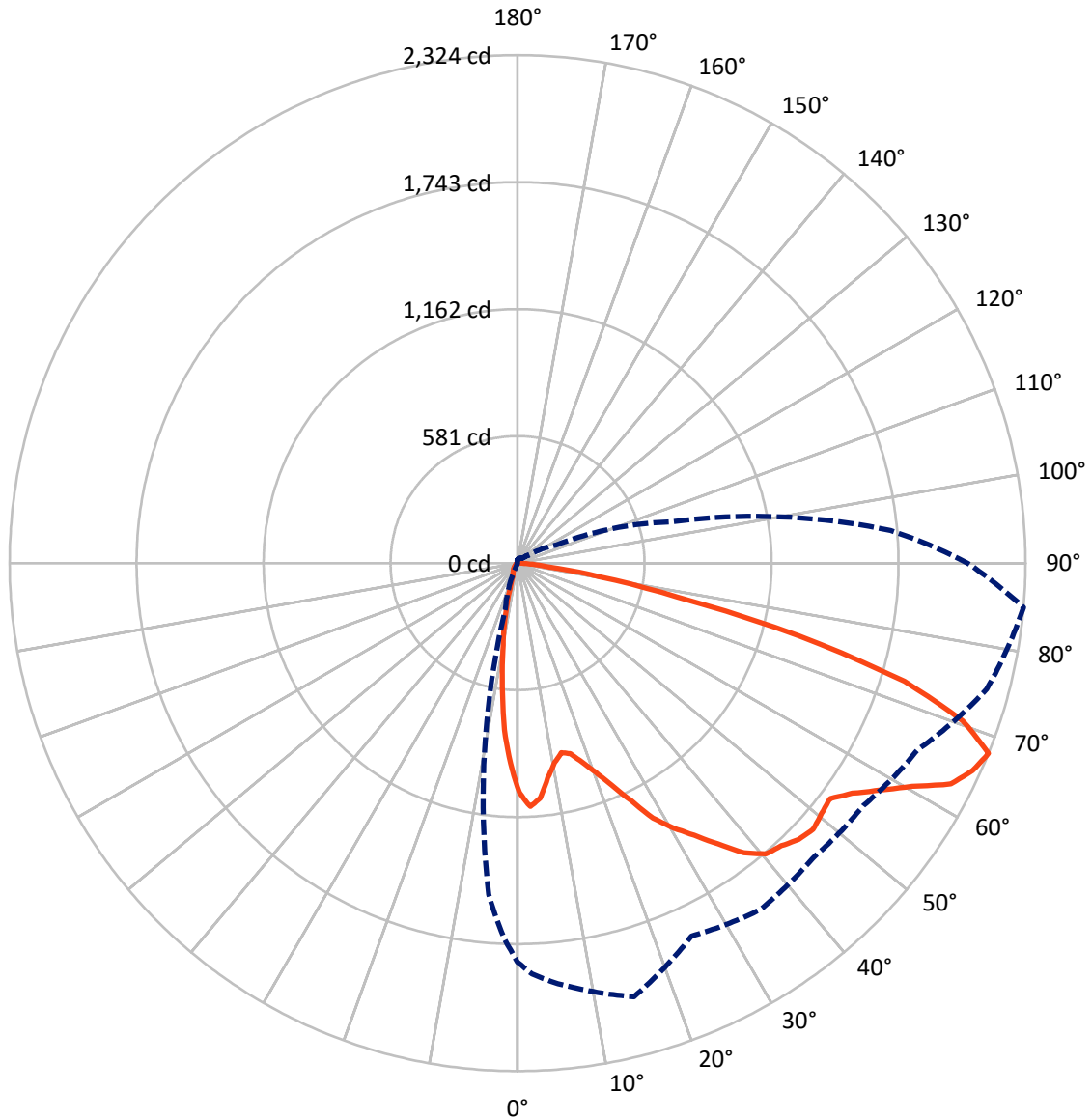
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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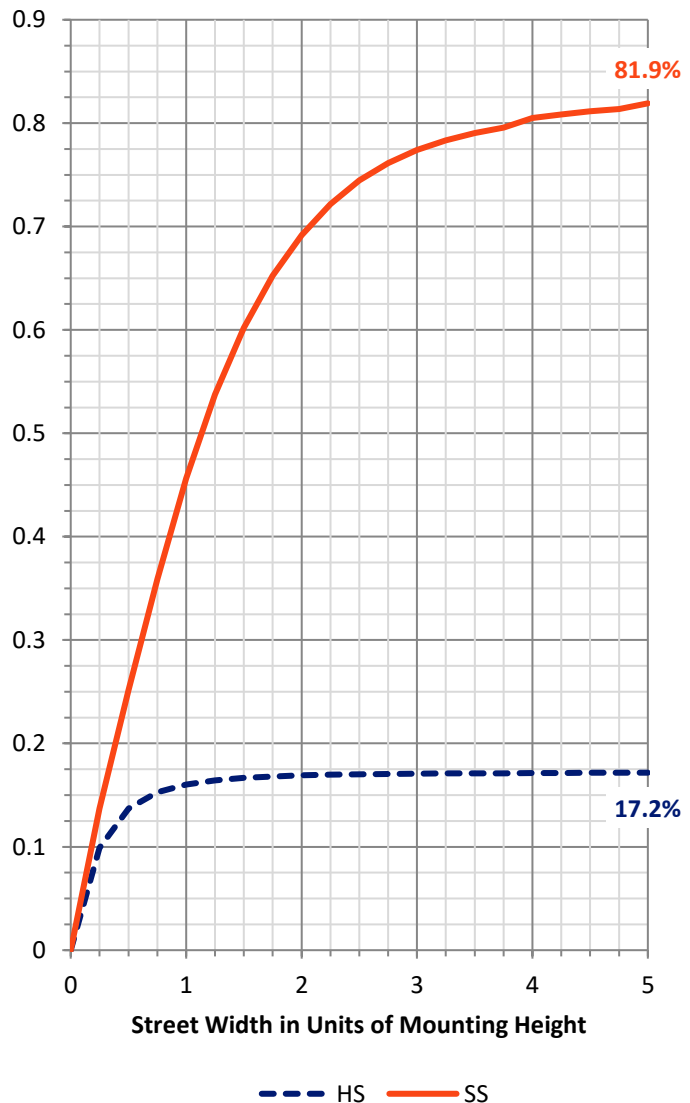
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 485.6    | 0.0    | 485.6  |
|                    | % Fixture | 17.4     | 0.0    | 17.4   |
| <b>Street Side</b> | Lumens    | 2311.2   | 0.0    | 2311.2 |
|                    | % Fixture | 82.6     | 0.0    | 82.6   |
| <b>Total</b>       | Lumens    | 2796.8   | 0.0    | 2796.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 79.9   | 2.9       |
| 10°-20°   | 156.7  | 5.6       |
| 20°-30°   | 216.8  | 7.8       |
| 30°-40°   | 306.4  | 11.0      |
| 40°-50°   | 417.1  | 14.9      |
| 50°-60°   | 552.5  | 19.8      |
| 60°-70°   | 641.5  | 22.9      |
| 70°-80°   | 363.3  | 13.0      |
| 80°-90°   | 62.8   | 2.2       |
| 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°    | 2796.8 | 100.0     |
| 0°-180°   | 2796.8 | 100.0     |

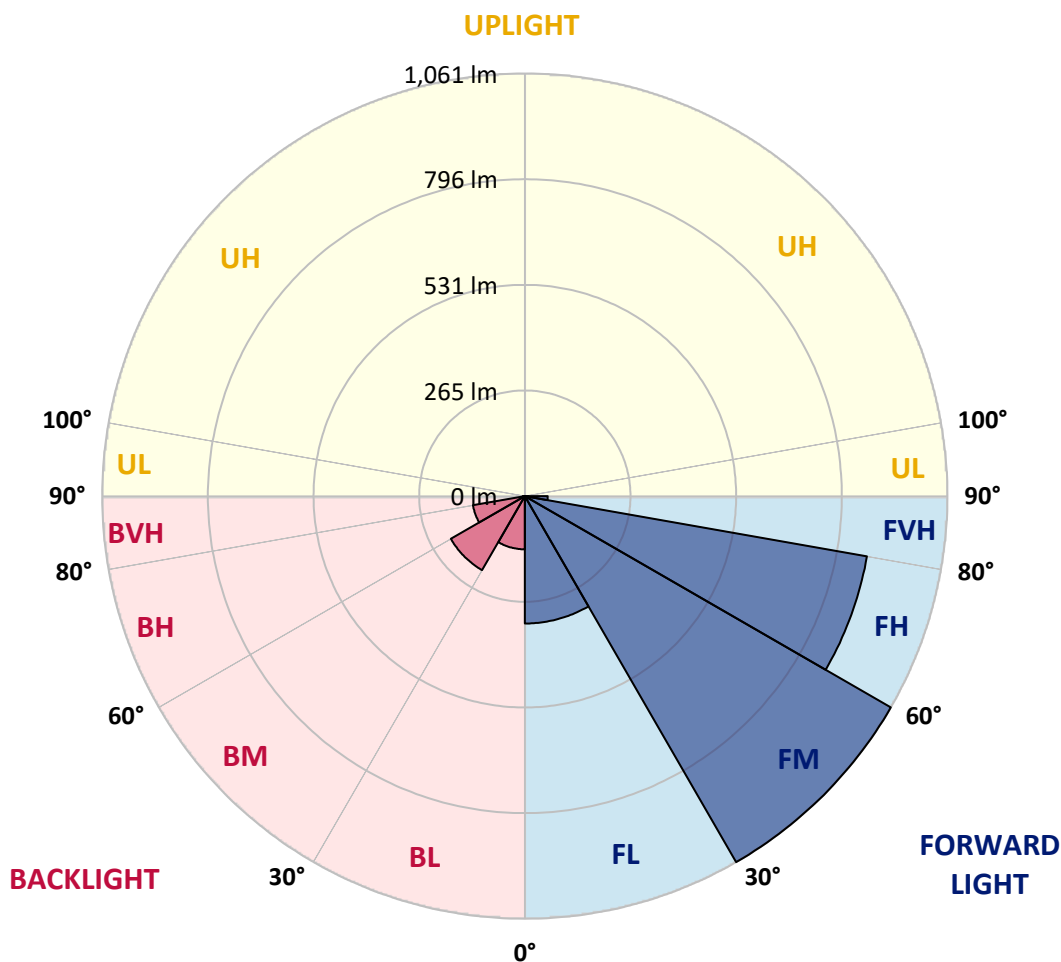


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 319.8  | 11.4      |                         |      |         |
| FM (30°-60°)   | 1061.4 | 38.0      |                         |      |         |
| FH (60°-80°)   | 872.5  | 31.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 57.5   | 2.1       |                         |      | G1/100  |
| BL (0°-30°)    | 133.5  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 214.6  | 7.7       | B0/220                  |      |         |
| BH (60°-80°)   | 132.3  | 4.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 5.3    | 0.2       |                         |      | 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°     | 2°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 |
| 2.5°  | 1092.7 | 1115.8 | 1116.6 | 1127.0 | 1137.5 | 1137.5 | 1162.1 | 1156.2 | 1134.5 | 1130.8 | 1115.1 |
| 5°    | 1100.9 | 1109.1 | 1115.1 | 1168.1 | 1212.9 | 1208.4 | 1221.9 | 1212.9 | 1171.1 | 1117.3 | 1080.7 |
| 7.5°  | 1029.9 | 1038.9 | 1062.8 | 1153.2 | 1213.7 | 1233.8 | 1259.2 | 1203.2 | 1159.1 | 1062.0 | 991.8  |
| 10°   | 935.8  | 953.0  | 997.1  | 1100.1 | 1174.8 | 1239.1 | 1239.1 | 1194.2 | 1109.1 | 1014.2 | 928.4  |
| 12.5° | 883.5  | 917.9  | 941.8  | 1046.4 | 1143.5 | 1187.5 | 1186.0 | 1162.1 | 1106.9 | 987.4  | 890.3  |
| 15°   | 892.5  | 902.2  | 953.0  | 1034.4 | 1098.6 | 1096.4 | 1123.3 | 1115.8 | 1077.0 | 1011.3 | 904.5  |
| 17.5° | 933.6  | 948.5  | 992.6  | 1034.4 | 1065.0 | 1056.1 | 1055.3 | 1091.2 | 1093.4 | 1051.6 | 957.5  |
| 20°   | 1000.8 | 1044.9 | 1065.8 | 1078.5 | 1041.1 | 1003.0 | 998.6  | 1048.6 | 1087.4 | 1103.1 | 1021.0 |
| 22.5° | 1108.4 | 1137.5 | 1180.1 | 1115.1 | 1018.0 | 970.2  | 961.2  | 1016.5 | 1094.9 | 1164.4 | 1103.1 |
| 25°   | 1213.7 | 1236.1 | 1277.1 | 1193.5 | 1044.1 | 963.5  | 947.8  | 995.6  | 1123.3 | 1249.5 | 1202.5 |
| 27.5° | 1324.9 | 1344.4 | 1348.8 | 1251.0 | 1058.3 | 950.0  | 931.3  | 995.6  | 1147.2 | 1294.3 | 1321.2 |
| 30°   | 1392.9 | 1416.1 | 1420.5 | 1301.8 | 1081.5 | 961.2  | 952.3  | 1000.1 | 1163.6 | 1332.4 | 1406.4 |
| 32.5° | 1469.1 | 1475.1 | 1471.3 | 1310.8 | 1106.9 | 994.1  | 956.7  | 1029.9 | 1182.3 | 1378.0 | 1484.0 |
| 35°   | 1560.2 | 1570.7 | 1532.6 | 1351.8 | 1163.6 | 1015.0 | 1001.5 | 1066.5 | 1214.4 | 1398.9 | 1578.1 |
| 37.5° | 1629.7 | 1662.5 | 1576.6 | 1367.5 | 1174.8 | 1059.1 | 1061.3 | 1142.7 | 1236.8 | 1424.3 | 1681.9 |
| 40°   | 1760.4 | 1705.1 | 1651.3 | 1421.3 | 1217.4 | 1133.7 | 1121.8 | 1221.1 | 1312.2 | 1440.7 | 1749.9 |
| 42.5° | 1832.1 | 1802.9 | 1680.5 | 1426.5 | 1283.1 | 1236.8 | 1239.8 | 1310.0 | 1351.8 | 1487.0 | 1768.6 |
| 45°   | 1850.0 | 1819.4 | 1720.0 | 1430.3 | 1348.1 | 1358.6 | 1410.1 | 1423.5 | 1410.1 | 1517.6 | 1803.7 |
| 47.5° | 1895.5 | 1829.1 | 1715.6 | 1480.3 | 1453.4 | 1493.7 | 1559.5 | 1588.6 | 1489.3 | 1506.4 | 1820.1 |
| 50°   | 1886.6 | 1848.5 | 1705.8 | 1501.2 | 1581.9 | 1688.7 | 1732.7 | 1720.8 | 1577.4 | 1483.3 | 1802.2 |
| 52.5° | 1849.2 | 1808.2 | 1735.7 | 1558.0 | 1702.1 | 1831.3 | 1892.6 | 1862.7 | 1655.8 | 1535.6 | 1790.2 |
| 55°   | 1903.8 | 1872.4 | 1774.6 | 1634.9 | 1792.5 | 1956.8 | 2000.1 | 1977.7 | 1752.2 | 1584.1 | 1858.2 |
| 57.5° | 1962.8 | 1956.0 | 1879.9 | 1725.3 | 1899.3 | 2086.0 | 2086.0 | 2058.4 | 1835.8 | 1654.3 | 1959.0 |
| 60°   | 2047.9 | 2062.8 | 1957.5 | 1785.0 | 1935.9 | 2078.5 | 2186.8 | 2154.7 | 1920.2 | 1777.5 | 2073.3 |
| 62.5° | 2020.3 | 2068.1 | 2057.6 | 1913.5 | 1977.7 | 2115.1 | 2174.1 | 2198.0 | 2024.8 | 1927.7 | 2225.7 |
| 65°   | 1931.4 | 1982.2 | 2056.9 | 1997.9 | 1946.3 | 2026.3 | 2056.1 | 2128.6 | 2077.0 | 2068.8 | 2288.4 |
| 67.5° | 1825.3 | 1880.6 | 1926.9 | 2054.6 | 1882.9 | 1935.9 | 1909.7 | 1932.9 | 2020.3 | 2223.4 | 2324.3 |
| 70°   | 1593.8 | 1646.8 | 1720.0 | 1928.4 | 1714.8 | 1667.0 | 1660.3 | 1649.1 | 1785.0 | 2168.2 | 2161.4 |
| 72.5° | 1310.8 | 1335.4 | 1456.4 | 1567.7 | 1268.9 | 1260.0 | 1270.4 | 1257.7 | 1415.3 | 1962.8 | 1851.5 |
| 75°   | 981.4  | 1006.0 | 1074.7 | 1203.9 | 864.1  | 812.6  | 872.3  | 931.3  | 1080.7 | 1523.6 | 1330.2 |
| 77.5° | 737.9  | 769.3  | 812.6  | 900.7  | 634.1  | 553.4  | 561.6  | 617.7  | 781.2  | 1220.4 | 745.4  |
| 80°   | 478.7  | 475.0  | 558.7  | 619.9  | 477.2  | 492.2  | 471.3  | 512.4  | 566.1  | 652.8  | 380.9  |
| 82.5° | 276.3  | 280.1  | 315.2  | 355.5  | 332.4  | 380.2  | 274.1  | 457.8  | 404.1  | 265.9  | 141.9  |
| 85°   | 155.3  | 162.1  | 194.2  | 246.5  | 208.4  | 139.7  | 114.3  | 227.0  | 253.9  | 109.0  | 68.7   |
| 87.5° | 15.7   | 13.4   | 26.1   | 93.4   | 56.8   | 23.2   | 34.4   | 54.5   | 61.2   | 41.1   | 20.2   |
| 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°    | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 |
| 2.5°  | 1092.7 | 1092.7 | 1074.0 | 1042.6 | 1029.9 | 1007.5 | 976.9  | 986.6  | 976.2  | 938.1  | 928.4  |
| 5°    | 1047.9 | 1012.0 | 973.2  | 925.4  | 897.7  | 841.0  | 823.0  | 790.9  | 796.2  | 764.0  | 765.5  |
| 7.5°  | 954.5  | 926.1  | 860.4  | 797.7  | 743.1  | 693.8  | 624.4  | 598.2  | 572.8  | 560.2  | 575.1  |
| 10°   | 900.0  | 846.9  | 757.3  | 675.2  | 602.7  | 558.7  | 512.4  | 476.5  | 443.6  | 419.0  | 413.8  |
| 12.5° | 860.4  | 813.3  | 705.0  | 605.0  | 548.2  | 512.4  | 469.8  | 420.5  | 388.4  | 345.8  | 333.1  |
| 15°   | 848.4  | 790.9  | 676.7  | 577.3  | 522.1  | 463.1  | 414.5  | 366.0  | 324.1  | 279.3  | 263.6  |
| 17.5° | 889.5  | 823.0  | 675.9  | 554.9  | 477.2  | 413.8  | 346.5  | 292.0  | 249.5  | 208.4  | 198.7  |
| 20°   | 959.0  | 857.4  | 697.6  | 541.5  | 434.7  | 349.5  | 273.4  | 218.8  | 171.0  | 144.1  | 137.4  |
| 22.5° | 1038.1 | 915.7  | 699.8  | 505.6  | 392.1  | 285.3  | 199.4  | 144.1  | 117.3  | 104.6  | 100.8  |
| 25°   | 1135.2 | 1009.0 | 726.7  | 476.5  | 342.1  | 216.6  | 141.9  | 110.5  | 94.9   | 87.4   | 85.9   |
| 27.5° | 1215.2 | 1074.0 | 755.8  | 445.9  | 292.8  | 160.6  | 111.3  | 90.4   | 82.2   | 74.7   | 73.9   |
| 30°   | 1298.1 | 1148.7 | 764.0  | 427.2  | 250.2  | 132.2  | 95.6   | 79.9   | 71.0   | 67.2   | 66.5   |
| 32.5° | 1370.5 | 1230.1 | 790.2  | 396.6  | 209.9  | 116.5  | 86.6   | 71.7   | 65.7   | 59.7   | 59.0   |
| 35°   | 1463.9 | 1277.1 | 802.9  | 380.2  | 194.9  | 105.3  | 79.2   | 65.7   | 56.8   | 53.0   | 51.5   |
| 37.5° | 1563.9 | 1322.7 | 811.1  | 367.5  | 182.2  | 98.6   | 74.7   | 62.0   | 53.8   | 48.5   | 47.1   |
| 40°   | 1657.3 | 1386.9 | 799.1  | 351.8  | 172.5  | 90.4   | 71.7   | 57.5   | 50.0   | 44.8   | 42.6   |
| 42.5° | 1729.0 | 1449.7 | 795.4  | 336.8  | 162.1  | 87.4   | 68.0   | 55.3   | 47.1   | 41.1   | 40.3   |
| 45°   | 1769.3 | 1492.2 | 769.3  | 324.9  | 153.9  | 88.9   | 66.5   | 52.3   | 44.8   | 39.6   | 36.6   |
| 47.5° | 1759.6 | 1525.1 | 776.0  | 321.2  | 142.7  | 82.9   | 65.7   | 50.0   | 41.1   | 36.6   | 34.4   |
| 50°   | 1813.4 | 1591.6 | 764.8  | 309.2  | 134.4  | 74.7   | 71.7   | 50.0   | 40.3   | 35.1   | 32.9   |
| 52.5° | 1822.4 | 1652.1 | 788.7  | 287.5  | 121.7  | 68.7   | 71.0   | 49.3   | 38.8   | 33.6   | 30.6   |
| 55°   | 1897.0 | 1722.3 | 835.0  | 275.6  | 111.3  | 59.7   | 65.0   | 47.8   | 35.1   | 30.6   | 29.1   |
| 57.5° | 1998.6 | 1867.9 | 864.9  | 264.4  | 97.1   | 52.3   | 54.5   | 47.1   | 32.1   | 28.4   | 26.1   |
| 60°   | 2096.5 | 1926.2 | 867.1  | 244.2  | 83.6   | 47.1   | 42.6   | 47.1   | 29.9   | 25.4   | 23.2   |
| 62.5° | 2169.6 | 1926.2 | 852.2  | 227.0  | 73.2   | 41.8   | 37.3   | 44.8   | 26.9   | 22.4   | 20.9   |
| 65°   | 2130.1 | 1874.6 | 813.3  | 212.9  | 66.5   | 36.6   | 32.1   | 34.4   | 23.9   | 19.4   | 17.9   |
| 67.5° | 2059.1 | 1714.1 | 727.4  | 195.7  | 65.7   | 32.1   | 27.6   | 25.4   | 20.9   | 17.2   | 15.7   |
| 70°   | 1945.6 | 1497.5 | 605.7  | 176.3  | 64.2   | 29.1   | 24.6   | 21.7   | 18.7   | 14.9   | 13.4   |
| 72.5° | 1567.7 | 1236.8 | 497.4  | 165.1  | 62.7   | 25.4   | 20.9   | 18.7   | 15.7   | 12.7   | 11.2   |
| 75°   | 1085.9 | 790.2  | 383.1  | 141.2  | 61.2   | 23.2   | 19.4   | 16.4   | 13.4   | 10.5   | 9.7    |
| 77.5° | 651.3  | 528.0  | 247.2  | 106.1  | 40.3   | 18.7   | 16.4   | 12.7   | 11.2   | 9.0    | 8.2    |
| 80°   | 304.7  | 249.5  | 100.1  | 41.1   | 19.4   | 13.4   | 11.2   | 9.7    | 9.0    | 7.5    | 6.7    |
| 82.5° | 119.5  | 105.3  | 48.5   | 23.9   | 15.7   | 10.5   | 9.0    | 8.2    | 7.5    | 6.0    | 5.2    |
| 85°   | 64.2   | 56.8   | 23.2   | 16.4   | 11.2   | 7.5    | 7.5    | 6.7    | 6.0    | 5.2    | 4.5    |
| 87.5° | 14.2   | 10.5   | 9.7    | 9.7    | 8.2    | 6.0    | 6.0    | 5.2    | 4.5    | 3.7    | 3.0    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 |
| 2.5°  | 923.1  | 934.3  | 916.4  | 927.6  | 911.9  | 923.9  | 925.4  | 914.2  | 917.2  | 932.1  | 938.8  |
| 5°    | 786.5  | 779.0  | 762.6  | 757.3  | 758.1  | 748.4  | 752.1  | 757.3  | 765.5  | 770.0  | 783.5  |
| 7.5°  | 566.9  | 584.1  | 583.3  | 596.0  | 596.7  | 595.3  | 584.8  | 562.4  | 569.9  | 563.9  | 571.4  |
| 10°   | 405.5  | 413.0  | 427.2  | 435.4  | 450.4  | 442.1  | 418.2  | 409.3  | 404.8  | 404.1  | 411.5  |
| 12.5° | 324.1  | 306.2  | 304.7  | 307.7  | 315.2  | 305.5  | 293.5  | 283.1  | 288.3  | 298.7  | 307.0  |
| 15°   | 250.9  | 236.0  | 216.6  | 213.6  | 215.1  | 210.6  | 197.9  | 184.5  | 188.2  | 198.7  | 204.6  |
| 17.5° | 192.7  | 175.5  | 162.1  | 153.1  | 150.1  | 134.4  | 115.8  | 104.6  | 101.6  | 100.8  | 106.1  |
| 20°   | 130.0  | 127.0  | 124.7  | 113.5  | 113.5  | 91.1   | 75.4   | 67.2   | 67.2   | 68.7   | 69.5   |
| 22.5° | 97.1   | 93.4   | 94.1   | 91.9   | 85.9   | 68.0   | 59.7   | 57.5   | 57.5   | 59.0   | 59.0   |
| 25°   | 84.4   | 79.2   | 77.7   | 76.9   | 71.0   | 58.3   | 52.3   | 50.0   | 50.0   | 51.5   | 51.5   |
| 27.5° | 71.7   | 70.2   | 68.0   | 65.0   | 59.7   | 50.0   | 46.3   | 44.1   | 44.8   | 45.6   | 44.8   |
| 30°   | 65.7   | 62.0   | 59.0   | 59.0   | 53.0   | 44.8   | 41.8   | 40.3   | 38.8   | 40.3   | 41.1   |
| 32.5° | 58.3   | 56.0   | 54.5   | 52.3   | 45.6   | 39.6   | 36.6   | 35.1   | 34.4   | 34.4   | 35.1   |
| 35°   | 50.0   | 50.0   | 48.5   | 45.6   | 39.6   | 35.8   | 32.1   | 30.6   | 29.9   | 30.6   | 30.6   |
| 37.5° | 44.8   | 42.6   | 43.3   | 40.3   | 35.1   | 31.4   | 27.6   | 26.1   | 26.1   | 25.4   | 26.1   |
| 40°   | 41.8   | 38.1   | 35.8   | 34.4   | 31.4   | 26.9   | 23.9   | 22.4   | 21.7   | 21.7   | 21.7   |
| 42.5° | 37.3   | 34.4   | 29.9   | 29.1   | 28.4   | 23.2   | 19.4   | 18.7   | 17.9   | 17.2   | 17.2   |
| 45°   | 35.1   | 30.6   | 26.9   | 23.2   | 23.2   | 19.4   | 16.4   | 14.9   | 14.2   | 13.4   | 14.2   |
| 47.5° | 32.1   | 27.6   | 23.2   | 19.4   | 18.7   | 15.7   | 12.7   | 11.2   | 10.5   | 10.5   | 10.5   |
| 50°   | 30.6   | 24.6   | 20.2   | 16.4   | 14.2   | 12.7   | 9.7    | 8.2    | 7.5    | 7.5    | 7.5    |
| 52.5° | 28.4   | 23.2   | 17.9   | 14.2   | 11.2   | 9.7    | 7.5    | 6.0    | 5.2    | 5.2    | 5.2    |
| 55°   | 25.4   | 20.9   | 15.7   | 11.9   | 9.7    | 7.5    | 5.2    | 3.7    | 3.0    | 3.0    | 3.0    |
| 57.5° | 23.9   | 18.7   | 13.4   | 10.5   | 7.5    | 5.2    | 3.0    | 2.2    | 2.2    | 1.5    | 2.2    |
| 60°   | 21.7   | 16.4   | 11.2   | 8.2    | 6.0    | 3.7    | 2.2    | 0.7    | 0.7    | 0.7    | 0.7    |
| 62.5° | 18.7   | 14.2   | 9.7    | 6.7    | 4.5    | 2.2    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 15.7   | 11.2   | 7.5    | 5.2    | 3.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 13.4   | 9.7    | 6.0    | 3.7    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 11.9   | 8.2    | 4.5    | 3.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 9.7    | 6.7    | 3.7    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 8.2    | 5.2    | 2.2    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 6.7    | 3.7    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 5.2    | 3.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 4.5    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 3.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 2.2    | 0.7    | 0.0    | 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    |



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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 | 1051.6 |
| 2.5°  | 948.5  | 944.0  | 966.4  | 1003.0 | 1021.7 | 1058.3 | 1067.3 | 1090.4 | 1084.5 | 1092.7 |
| 5°    | 785.0  | 793.9  | 826.8  | 880.6  | 900.0  | 953.0  | 1003.0 | 1053.1 | 1085.2 | 1100.9 |
| 7.5°  | 582.6  | 612.4  | 652.8  | 702.1  | 752.1  | 821.6  | 906.7  | 965.0  | 996.3  | 1029.9 |
| 10°   | 433.9  | 466.0  | 512.4  | 560.9  | 642.3  | 720.0  | 805.1  | 877.6  | 904.5  | 935.8  |
| 12.5° | 341.3  | 391.4  | 445.1  | 497.4  | 546.0  | 619.9  | 725.2  | 830.5  | 859.6  | 883.5  |
| 15°   | 237.5  | 298.7  | 375.7  | 443.6  | 511.6  | 575.8  | 684.9  | 812.6  | 852.2  | 892.5  |
| 17.5° | 131.4  | 180.0  | 268.1  | 363.7  | 463.8  | 562.4  | 698.3  | 845.5  | 905.2  | 933.6  |
| 20°   | 76.2   | 95.6   | 158.3  | 271.9  | 404.1  | 533.3  | 705.0  | 907.4  | 986.6  | 1000.8 |
| 22.5° | 62.7   | 69.5   | 89.6   | 170.3  | 330.9  | 514.6  | 739.4  | 994.1  | 1074.7 | 1108.4 |
| 25°   | 53.8   | 59.0   | 69.5   | 102.3  | 250.2  | 475.0  | 761.1  | 1102.4 | 1177.1 | 1213.7 |
| 27.5° | 47.8   | 53.0   | 61.2   | 75.4   | 170.3  | 420.5  | 796.9  | 1200.2 | 1274.9 | 1324.9 |
| 30°   | 41.8   | 46.3   | 54.5   | 64.2   | 118.0  | 359.2  | 827.5  | 1271.9 | 1377.2 | 1392.9 |
| 32.5° | 37.3   | 41.1   | 47.1   | 55.3   | 87.4   | 272.6  | 852.2  | 1345.9 | 1434.7 | 1469.1 |
| 35°   | 32.1   | 36.6   | 40.3   | 47.1   | 66.5   | 205.4  | 837.2  | 1403.4 | 1519.1 | 1560.2 |
| 37.5° | 28.4   | 31.4   | 35.1   | 39.6   | 56.0   | 160.6  | 806.6  | 1472.1 | 1591.6 | 1629.7 |
| 40°   | 23.9   | 26.1   | 30.6   | 35.1   | 50.8   | 124.0  | 771.5  | 1555.0 | 1693.1 | 1760.4 |
| 42.5° | 20.2   | 22.4   | 25.4   | 32.9   | 41.8   | 91.9   | 700.6  | 1619.2 | 1775.3 | 1832.1 |
| 45°   | 15.7   | 18.7   | 23.2   | 32.9   | 33.6   | 68.0   | 627.4  | 1667.0 | 1821.6 | 1850.0 |
| 47.5° | 11.9   | 14.9   | 22.4   | 28.4   | 26.9   | 47.1   | 540.7  | 1721.5 | 1869.4 | 1895.5 |
| 50°   | 9.0    | 11.9   | 25.4   | 24.6   | 22.4   | 35.8   | 486.2  | 1759.6 | 1872.4 | 1886.6 |
| 52.5° | 6.0    | 9.0    | 20.9   | 18.7   | 18.7   | 31.4   | 471.3  | 1758.1 | 1879.9 | 1849.2 |
| 55°   | 4.5    | 6.7    | 11.9   | 13.4   | 16.4   | 27.6   | 457.8  | 1814.1 | 1882.1 | 1903.8 |
| 57.5° | 3.0    | 5.2    | 8.2    | 10.5   | 14.2   | 23.9   | 430.2  | 1881.4 | 1951.6 | 1962.8 |
| 60°   | 1.5    | 3.7    | 6.0    | 8.2    | 11.9   | 20.9   | 391.4  | 1930.7 | 2036.0 | 2047.9 |
| 62.5° | 0.7    | 2.2    | 4.5    | 6.7    | 9.7    | 16.4   | 351.0  | 1852.2 | 1999.4 | 2020.3 |
| 65°   | 0.0    | 1.5    | 3.0    | 4.5    | 6.0    | 11.9   | 285.3  | 1672.2 | 1854.5 | 1931.4 |
| 67.5° | 0.0    | 0.0    | 1.5    | 3.0    | 3.7    | 9.0    | 215.1  | 1521.4 | 1720.8 | 1825.3 |
| 70°   | 0.0    | 0.0    | 0.7    | 0.7    | 2.2    | 6.7    | 137.4  | 1260.0 | 1536.3 | 1593.8 |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 4.5    | 79.9   | 935.8  | 1203.9 | 1310.8 |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.7    | 40.3   | 602.0  | 838.0  | 981.4  |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.0    | 21.7   | 388.4  | 617.7  | 737.9  |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.7    | 12.7   | 225.6  | 395.1  | 478.7  |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.2    | 110.5  | 236.0  | 276.3  |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.5    | 59.0   | 118.0  | 155.3  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.2    | 8.2    | 15.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)