

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: P672089

Luminaire Tested: **CCP-SA-1B-730-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672089  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-730-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T2R distribution lens  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

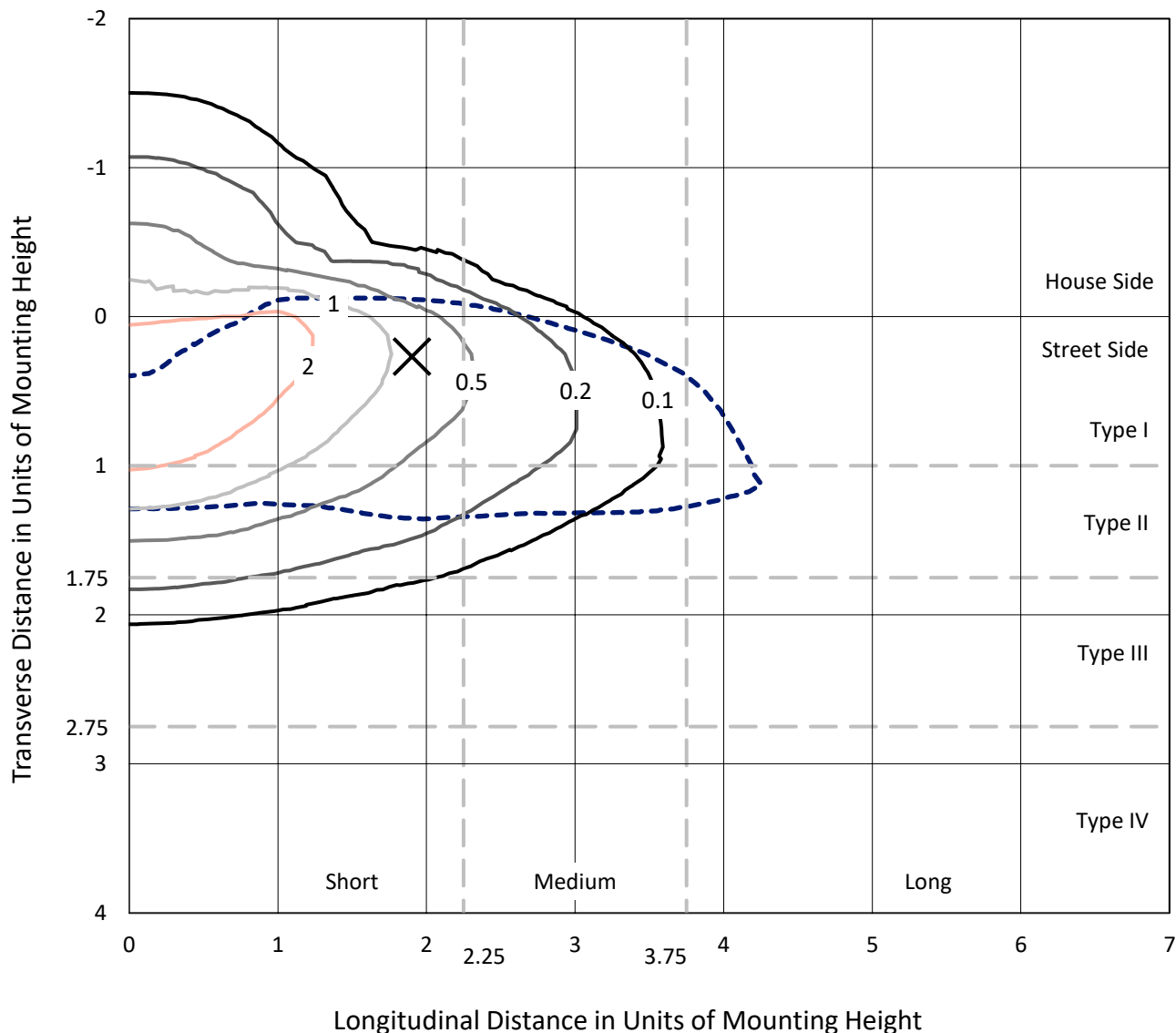
Lumens per Lamp: N/A  
Luminaire Lumens: 3194.4 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

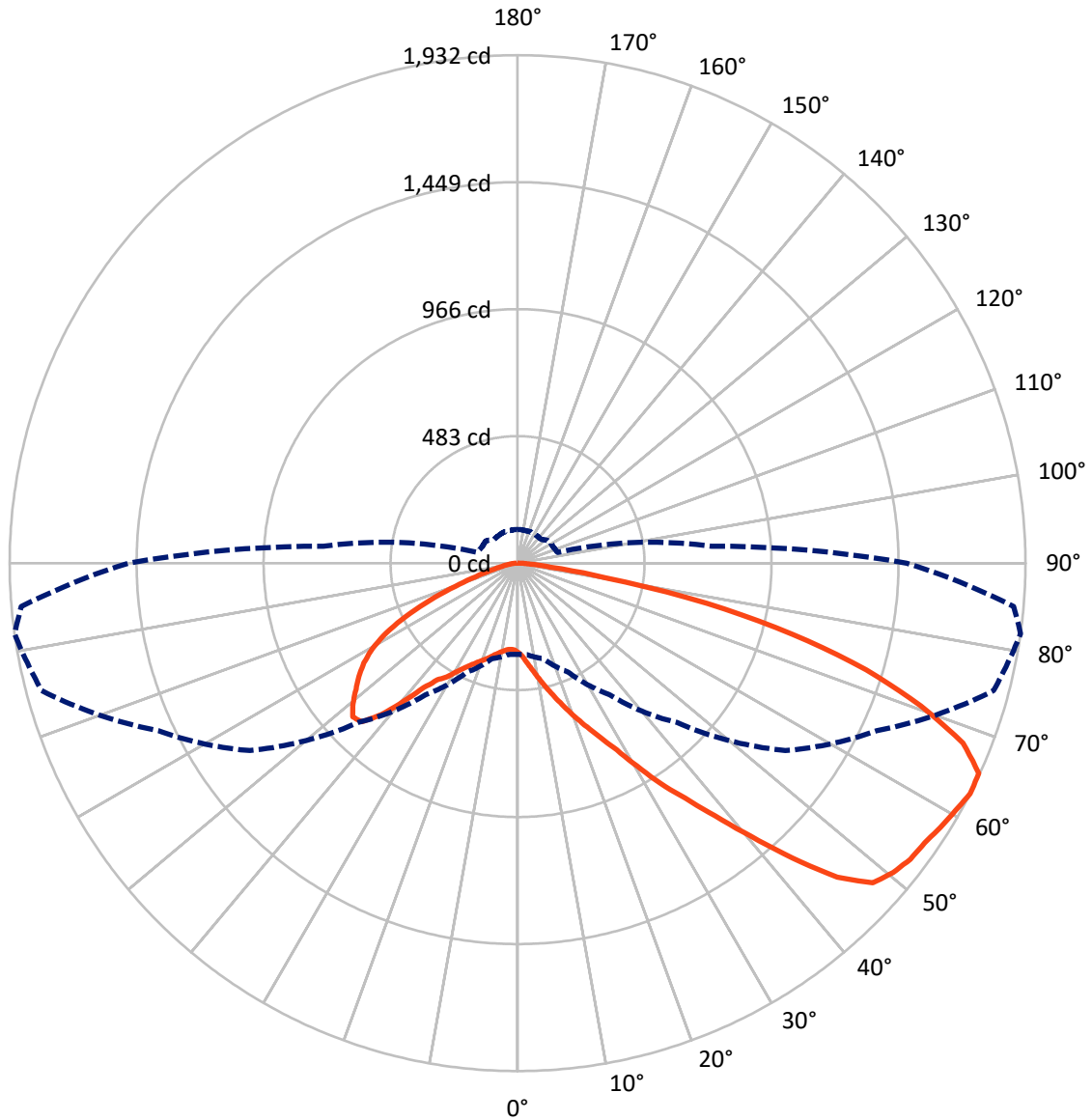
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 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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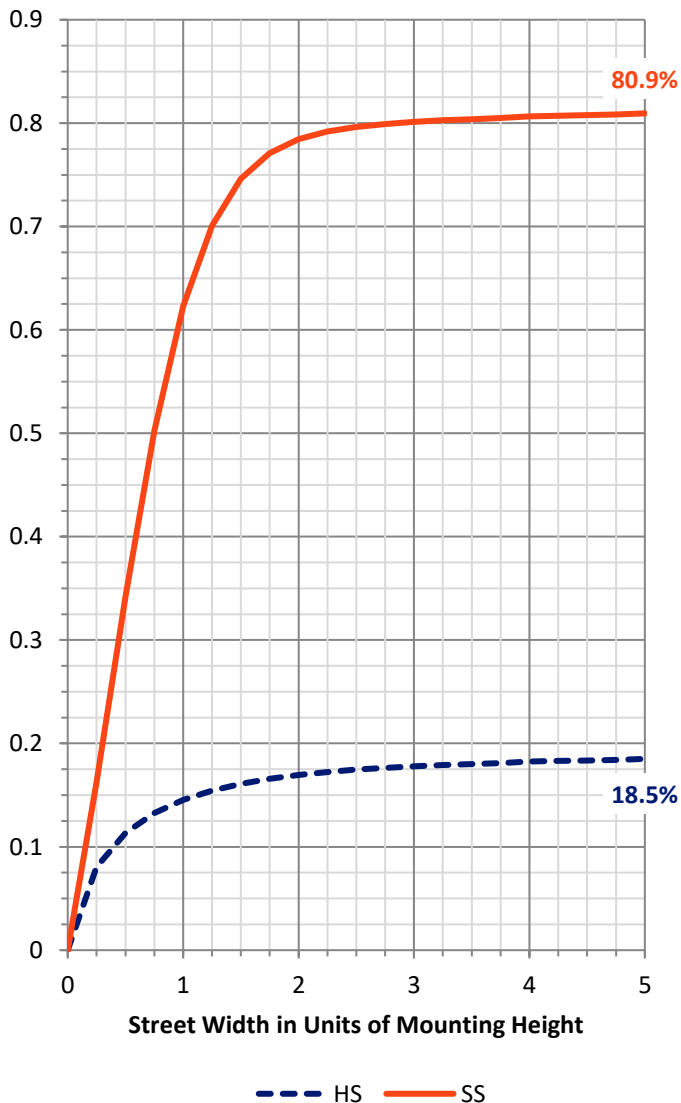
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 601.8    | 0.0    | 601.8  |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 2592.6   | 0.0    | 2592.6 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 3194.4   | 0.0    | 3194.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.6   | 1.2       |
| 10°-20°   | 141.8  | 4.4       |
| 20°-30°   | 293.6  | 9.2       |
| 30°-40°   | 498.4  | 15.6      |
| 40°-50°   | 678.7  | 21.2      |
| 50°-60°   | 687.0  | 21.5      |
| 60°-70°   | 541.4  | 16.9      |
| 70°-80°   | 266.7  | 8.3       |
| 80°-90°   | 49.3   | 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°    | 3194.4 | 100.0     |
| 0°-180°   | 3194.4 | 100.0     |



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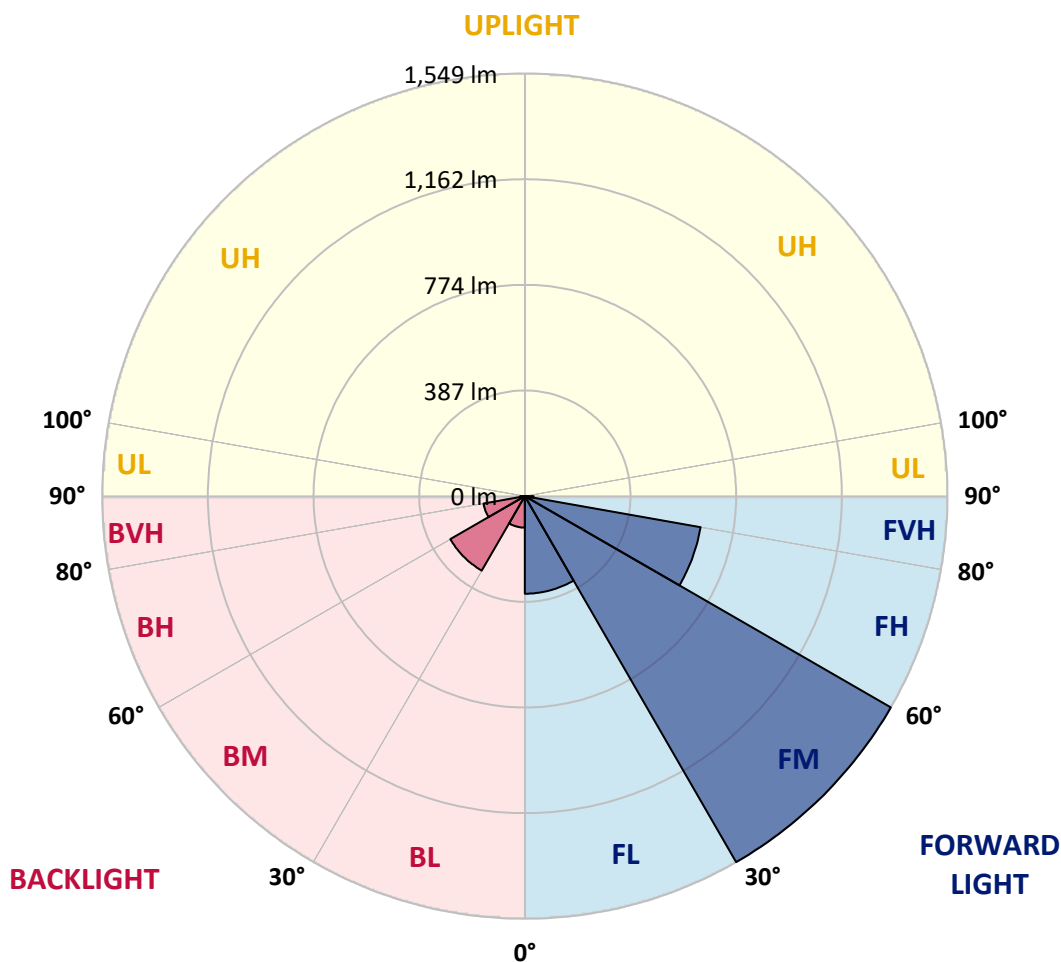
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 357.5  | 11.2      |                         |      |        |
| FM (30°-60°)   | 1548.8 | 48.5      |                         |      |        |
| FH (60°-80°)   | 654.3  | 20.5      |                         |      | G0/660 |
| FVH (80°-90°)  | 32.0   | 1.0       |                         |      | G1/100 |
| BL (0°-30°)    | 115.5  | 3.6       | B1/500                  |      |        |
| BM (30°-60°)   | 315.2  | 9.9       | B1/1000                 |      |        |
| BH (60°-80°)   | 153.8  | 4.8       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 17.3   | 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°    | 339.7  | 339.7  | 339.7  | 339.7  | 339.7  | 339.7  | 339.7  | 339.7  | 339.7  | 339.7  | 339.7  |
| 2.5°  | 452.4  | 445.5  | 441.8  | 437.7  | 426.2  | 418.8  | 405.0  | 388.9  | 370.3  | 354.4  | 351.4  |
| 5°    | 547.9  | 541.0  | 541.9  | 531.8  | 515.0  | 499.3  | 473.6  | 443.2  | 407.8  | 380.6  | 371.2  |
| 7.5°  | 615.2  | 607.7  | 609.5  | 605.4  | 591.8  | 574.5  | 541.9  | 502.8  | 451.0  | 410.8  | 395.6  |
| 10°   | 660.3  | 661.2  | 662.6  | 661.0  | 652.3  | 640.1  | 607.7  | 564.4  | 500.0  | 446.4  | 425.7  |
| 12.5° | 711.4  | 713.9  | 713.4  | 714.1  | 709.5  | 699.9  | 668.1  | 627.4  | 552.2  | 484.8  | 457.9  |
| 15°   | 776.5  | 773.9  | 776.0  | 779.0  | 773.9  | 763.4  | 735.3  | 687.0  | 607.0  | 527.6  | 494.3  |
| 17.5° | 847.8  | 842.5  | 848.0  | 845.0  | 841.3  | 834.4  | 803.6  | 752.1  | 663.5  | 573.8  | 534.7  |
| 20°   | 909.4  | 906.0  | 908.9  | 909.4  | 910.1  | 908.7  | 877.0  | 822.2  | 722.9  | 624.2  | 578.4  |
| 22.5° | 978.6  | 977.0  | 976.6  | 976.8  | 977.5  | 979.1  | 957.5  | 899.1  | 788.7  | 677.1  | 625.6  |
| 25°   | 1075.5 | 1073.9 | 1063.3 | 1051.5 | 1044.6 | 1049.7 | 1038.4 | 986.2  | 861.3  | 736.4  | 677.3  |
| 27.5° | 1184.0 | 1181.5 | 1167.5 | 1137.8 | 1115.7 | 1119.4 | 1118.2 | 1082.4 | 945.1  | 804.5  | 739.4  |
| 30°   | 1296.7 | 1290.5 | 1271.2 | 1229.6 | 1194.8 | 1188.4 | 1191.6 | 1179.7 | 1050.4 | 894.9  | 825.9  |
| 32.5° | 1397.2 | 1385.7 | 1360.2 | 1318.1 | 1276.7 | 1258.1 | 1258.5 | 1263.8 | 1164.9 | 1000.3 | 916.5  |
| 35°   | 1458.6 | 1451.0 | 1432.0 | 1389.4 | 1343.2 | 1330.8 | 1327.3 | 1353.8 | 1270.0 | 1097.8 | 997.7  |
| 37.5° | 1491.8 | 1484.4 | 1463.9 | 1429.7 | 1394.7 | 1389.6 | 1396.1 | 1437.0 | 1389.4 | 1219.4 | 1108.1 |
| 40°   | 1485.8 | 1478.0 | 1464.6 | 1440.7 | 1417.7 | 1421.6 | 1450.1 | 1513.4 | 1519.8 | 1365.0 | 1265.4 |
| 42.5° | 1436.6 | 1428.3 | 1427.1 | 1425.5 | 1414.7 | 1432.0 | 1483.5 | 1569.3 | 1639.6 | 1533.2 | 1455.9 |
| 45°   | 1349.6 | 1344.6 | 1350.5 | 1378.1 | 1391.7 | 1425.1 | 1499.1 | 1596.4 | 1745.0 | 1704.0 | 1636.0 |
| 47.5° | 1239.5 | 1236.5 | 1250.0 | 1293.7 | 1337.7 | 1403.9 | 1509.5 | 1603.8 | 1817.4 | 1817.4 | 1754.0 |
| 50°   | 1116.2 | 1115.0 | 1133.0 | 1196.4 | 1265.2 | 1365.0 | 1508.3 | 1610.7 | 1849.2 | 1850.8 | 1795.6 |
| 52.5° | 944.1  | 950.1  | 998.0  | 1081.7 | 1175.1 | 1304.1 | 1492.2 | 1630.0 | 1867.1 | 1870.8 | 1823.4 |
| 55°   | 745.9  | 751.6  | 823.8  | 936.5  | 1056.1 | 1230.0 | 1444.1 | 1624.2 | 1870.6 | 1878.8 | 1839.3 |
| 57.5° | 595.5  | 596.6  | 641.7  | 775.5  | 923.7  | 1135.3 | 1388.7 | 1586.1 | 1860.4 | 1896.6 | 1863.7 |
| 60°   | 466.0  | 469.7  | 499.8  | 605.8  | 770.0  | 1013.1 | 1326.9 | 1548.3 | 1866.2 | 1913.3 | 1885.7 |
| 62.5° | 347.1  | 348.0  | 376.0  | 458.2  | 611.8  | 857.4  | 1242.9 | 1508.1 | 1874.2 | 1932.2 | 1894.7 |
| 65°   | 226.1  | 225.9  | 253.0  | 327.1  | 457.0  | 689.3  | 1111.1 | 1445.1 | 1874.9 | 1928.1 | 1853.5 |
| 67.5° | 143.7  | 144.7  | 156.4  | 203.1  | 305.9  | 520.3  | 931.7  | 1328.0 | 1842.3 | 1827.8 | 1703.6 |
| 70°   | 116.6  | 116.8  | 120.5  | 132.7  | 186.3  | 355.6  | 700.3  | 1144.9 | 1739.0 | 1627.9 | 1480.7 |
| 72.5° | 104.0  | 104.2  | 106.0  | 107.4  | 124.2  | 213.7  | 459.5  | 929.6  | 1555.5 | 1387.6 | 1228.4 |
| 75°   | 93.4   | 93.4   | 94.5   | 93.1   | 101.9  | 134.1  | 260.8  | 699.0  | 1281.1 | 1080.5 | 928.0  |
| 77.5° | 81.9   | 81.6   | 81.6   | 81.0   | 88.1   | 98.0   | 130.6  | 487.8  | 922.7  | 736.9  | 601.9  |
| 80°   | 69.5   | 69.0   | 69.7   | 69.2   | 76.1   | 74.3   | 76.1   | 301.1  | 500.2  | 337.9  | 256.2  |
| 82.5° | 54.0   | 54.0   | 56.1   | 56.6   | 62.8   | 53.8   | 53.6   | 142.8  | 190.0  | 126.3  | 94.5   |
| 85°   | 28.3   | 31.7   | 42.8   | 44.6   | 47.4   | 33.8   | 39.3   | 66.7   | 76.1   | 48.3   | 34.5   |
| 87.5° | 8.5    | 9.0    | 26.2   | 29.4   | 29.2   | 17.0   | 24.1   | 32.2   | 35.6   | 21.4   | 14.0   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 339.7  | 339.7  | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 | 339.7 |
| 2.5°  | 343.8  | 335.8  | 318.8 | 303.6 | 292.1 | 281.1 | 273.5 | 269.6 | 264.5 | 265.2 | 263.6 |
| 5°    | 354.4  | 337.9  | 307.7 | 283.4 | 267.0 | 254.6 | 247.0 | 243.1 | 239.4 | 237.6 | 239.0 |
| 7.5°  | 370.3  | 344.5  | 302.4 | 273.0 | 256.0 | 245.4 | 241.3 | 240.1 | 239.2 | 238.5 | 239.7 |
| 10°   | 390.8  | 356.3  | 301.5 | 269.3 | 253.7 | 247.2 | 245.6 | 244.9 | 244.0 | 243.1 | 243.8 |
| 12.5° | 411.7  | 369.1  | 304.7 | 270.2 | 257.4 | 252.5 | 250.5 | 249.5 | 247.2 | 246.1 | 246.3 |
| 15°   | 437.9  | 384.8  | 309.1 | 273.9 | 262.2 | 256.0 | 253.2 | 250.7 | 247.0 | 245.4 | 246.1 |
| 17.5° | 466.0  | 403.4  | 315.1 | 277.4 | 264.0 | 256.4 | 250.9 | 247.2 | 243.6 | 241.3 | 241.5 |
| 20°   | 497.7  | 421.8  | 320.4 | 278.5 | 263.1 | 252.5 | 245.9 | 241.5 | 236.7 | 234.1 | 233.4 |
| 22.5° | 530.6  | 441.1  | 324.5 | 277.6 | 258.1 | 245.9 | 238.3 | 233.0 | 227.2 | 223.3 | 223.6 |
| 25°   | 570.6  | 467.4  | 328.0 | 274.4 | 251.4 | 237.1 | 228.6 | 221.9 | 216.0 | 212.3 | 212.5 |
| 27.5° | 618.7  | 497.0  | 332.1 | 269.3 | 243.3 | 227.7 | 217.8 | 211.1 | 205.4 | 201.9 | 201.5 |
| 30°   | 682.9  | 535.7  | 336.7 | 263.1 | 233.2 | 217.3 | 207.7 | 200.8 | 195.3 | 192.0 | 192.0 |
| 32.5° | 755.1  | 582.8  | 339.9 | 255.8 | 221.9 | 206.3 | 197.6 | 192.0 | 187.9 | 183.5 | 183.1 |
| 35°   | 817.9  | 619.4  | 349.8 | 250.0 | 212.1 | 196.0 | 190.0 | 186.1 | 179.9 | 175.7 | 175.0 |
| 37.5° | 910.1  | 683.8  | 379.0 | 248.4 | 200.1 | 187.9 | 186.8 | 179.4 | 172.3 | 164.4 | 163.8 |
| 40°   | 1058.7 | 795.3  | 413.1 | 240.6 | 187.7 | 183.5 | 182.4 | 172.5 | 155.7 | 150.9 | 150.0 |
| 42.5° | 1247.7 | 929.6  | 416.8 | 217.8 | 178.9 | 179.9 | 176.4 | 157.1 | 149.7 | 146.0 | 145.1 |
| 45°   | 1418.4 | 1038.7 | 395.8 | 194.6 | 172.5 | 174.3 | 167.2 | 151.3 | 147.2 | 143.7 | 142.8 |
| 47.5° | 1514.3 | 1072.2 | 356.3 | 177.1 | 167.7 | 169.5 | 152.5 | 148.6 | 144.4 | 141.0 | 140.1 |
| 50°   | 1541.2 | 1043.0 | 310.3 | 167.0 | 164.0 | 164.7 | 148.6 | 146.3 | 142.6 | 139.8 | 138.5 |
| 52.5° | 1546.5 | 999.3  | 267.7 | 161.0 | 161.2 | 155.0 | 145.1 | 143.3 | 141.0 | 136.6 | 135.0 |
| 55°   | 1548.8 | 960.0  | 229.5 | 157.3 | 159.4 | 142.6 | 141.4 | 140.1 | 138.2 | 133.6 | 132.7 |
| 57.5° | 1554.8 | 909.6  | 199.6 | 154.6 | 157.1 | 136.8 | 137.3 | 136.4 | 134.1 | 132.0 | 131.6 |
| 60°   | 1537.8 | 839.9  | 176.6 | 151.8 | 153.9 | 132.0 | 132.5 | 132.9 | 130.9 | 130.4 | 130.2 |
| 62.5° | 1480.7 | 741.0  | 157.1 | 148.1 | 147.2 | 127.2 | 127.2 | 129.0 | 127.2 | 127.9 | 127.9 |
| 65°   | 1363.2 | 615.0  | 139.6 | 141.2 | 136.8 | 121.9 | 121.7 | 124.9 | 122.1 | 125.1 | 125.3 |
| 67.5° | 1162.9 | 465.5  | 121.7 | 130.4 | 126.0 | 116.4 | 117.3 | 119.8 | 116.1 | 122.4 | 122.4 |
| 70°   | 920.4  | 316.7  | 103.0 | 115.2 | 115.0 | 110.2 | 113.2 | 112.9 | 108.8 | 118.0 | 116.4 |
| 72.5° | 685.6  | 203.3  | 83.9  | 96.6  | 100.5 | 103.5 | 109.0 | 104.2 | 100.3 | 105.6 | 100.7 |
| 75°   | 479.1  | 127.4  | 66.2  | 76.4  | 83.7  | 96.1  | 104.0 | 94.3  | 88.5  | 86.9  | 85.6  |
| 77.5° | 286.8  | 81.4   | 52.2  | 58.2  | 65.3  | 87.4  | 97.5  | 83.9  | 75.2  | 74.3  | 71.5  |
| 80°   | 132.2  | 53.1   | 39.8  | 43.5  | 46.5  | 75.0  | 88.8  | 71.8  | 61.2  | 60.3  | 57.0  |
| 82.5° | 59.8   | 35.0   | 29.7  | 31.0  | 31.3  | 59.6  | 75.0  | 56.8  | 46.7  | 75.7  | 65.5  |
| 85°   | 27.8   | 22.5   | 19.3  | 18.4  | 18.6  | 39.8  | 54.5  | 39.1  | 53.1  | 41.4  | 31.5  |
| 87.5° | 12.0   | 11.5   | 9.9   | 7.8   | 7.1   | 8.5   | 20.9  | 16.3  | 23.2  | 9.2   | 6.2   |
| 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)