

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: P670949

Luminaire Tested: **CCP-SA-1C-735-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670949  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-735-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T4FT distribution lens  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

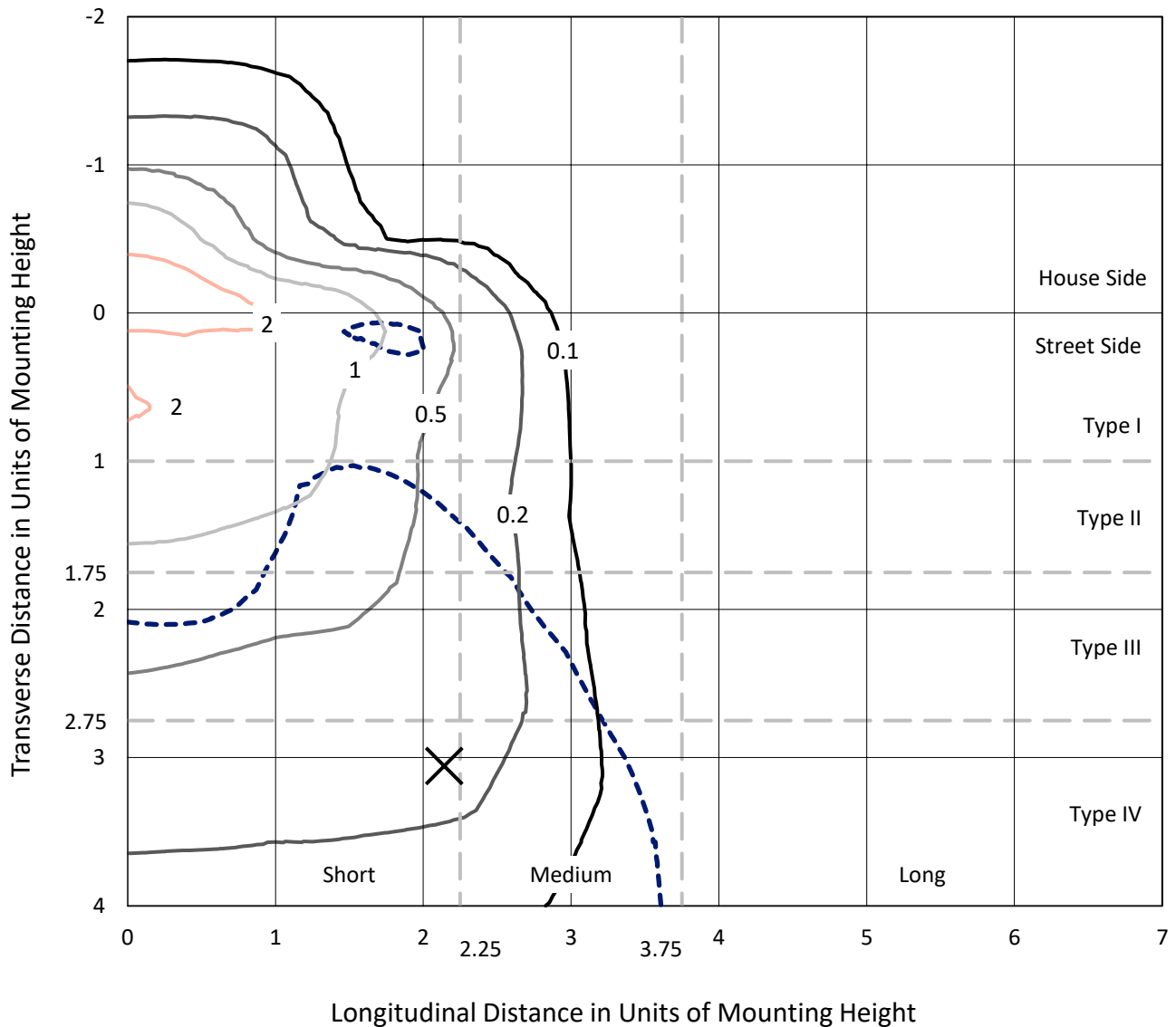
Lumens per Lamp: N/A  
Luminaire Lumens: 4456.6 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 32  
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

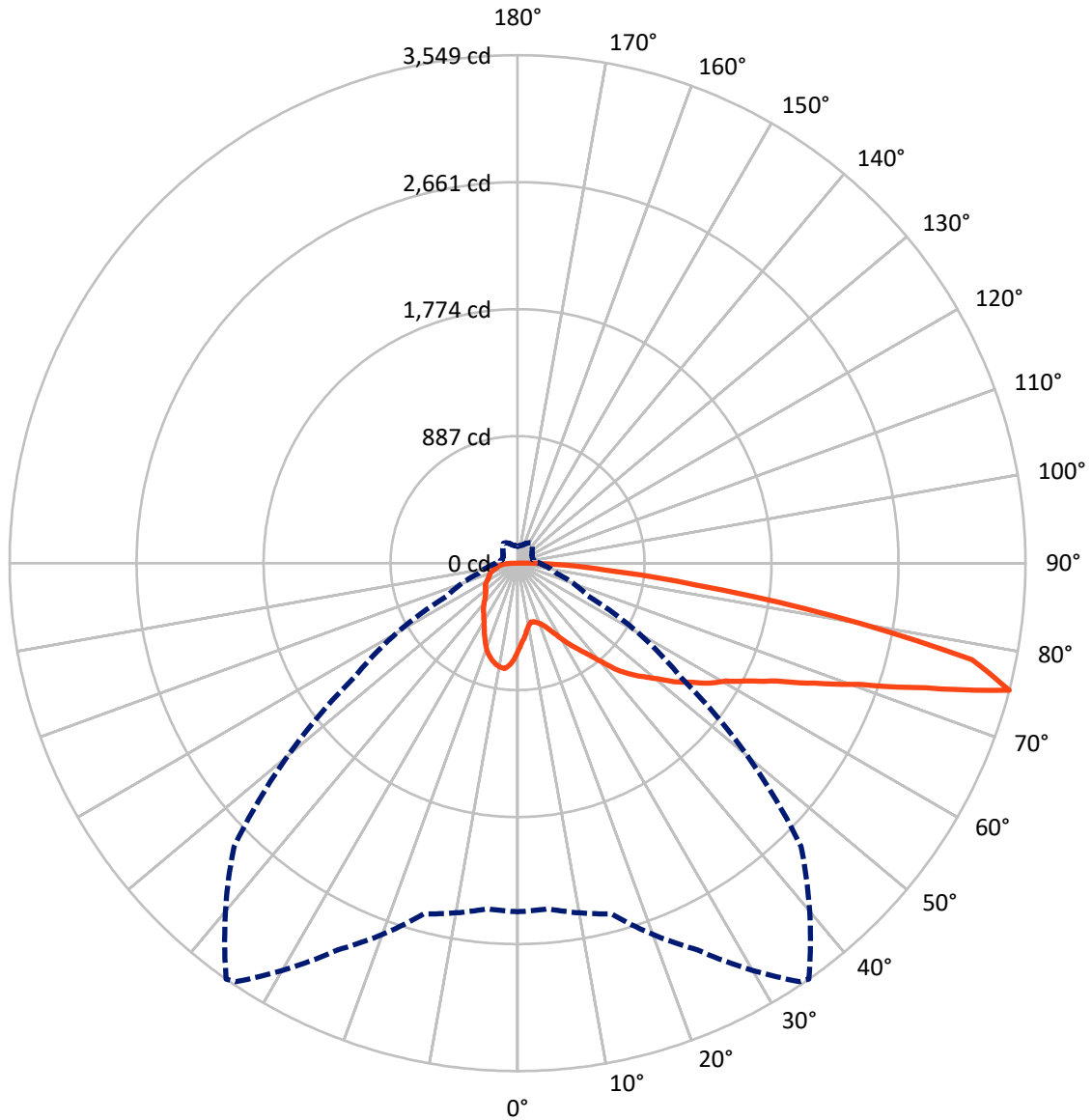
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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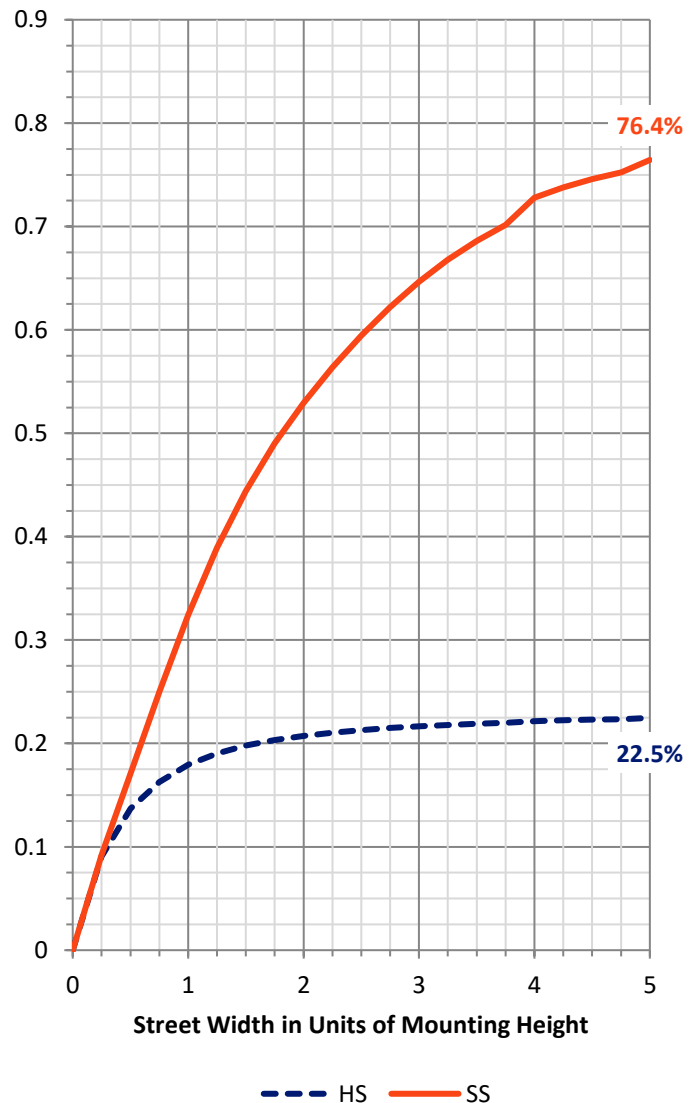
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1024.2   | 0.0    | 1024.2 |
|                    | % Fixture | 23.0     | 0.0    | 23.0   |
| <b>Street Side</b> | Lumens    | 3432.3   | 0.0    | 3432.3 |
|                    | % Fixture | 77.0     | 0.0    | 77.0   |
| <b>Total</b>       | Lumens    | 4456.6   | 0.0    | 4456.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 58.2   | 1.3       |
| 10°-20°   | 168.9  | 3.8       |
| 20°-30°   | 280.2  | 6.3       |
| 30°-40°   | 415.3  | 9.3       |
| 40°-50°   | 598.9  | 13.4      |
| 50°-60°   | 823.5  | 18.5      |
| 60°-70°   | 1017.2 | 22.8      |
| 70°-80°   | 930.6  | 20.9      |
| 80°-90°   | 163.8  | 3.7       |
| 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°    | 4456.6 | 100.0     |
| 0°-180°   | 4456.6 | 100.0     |



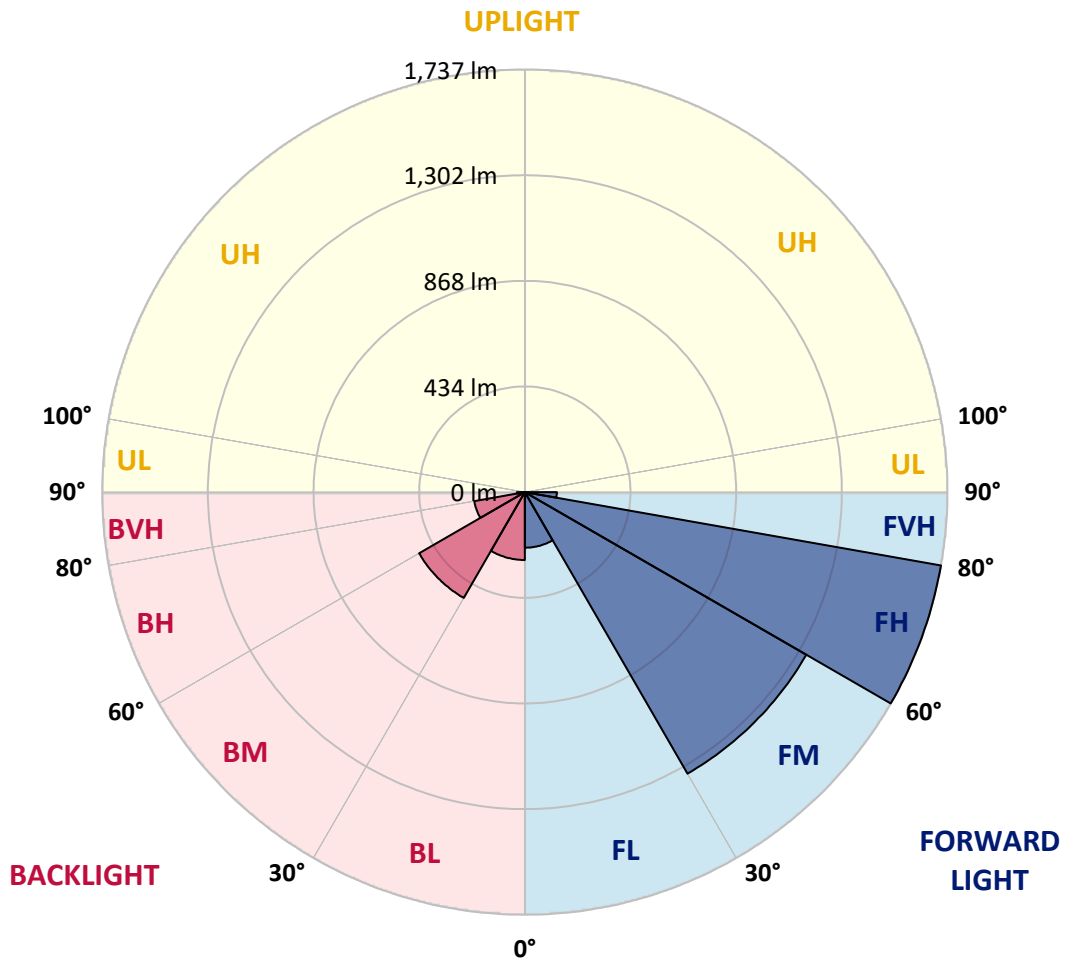
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 228.4  | 5.1       |                         |      |         |
| FM (30°-60°)   | 1335.8 | 30.0      |                         |      |         |
| FH (60°-80°)   | 1736.6 | 39.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 131.5  | 3.0       |                         |      | G2/225  |
| BL (0°-30°)    | 278.8  | 6.3       | B1/500                  |      |         |
| BM (30°-60°)   | 501.9  | 11.3      | B1/1000                 |      |         |
| BH (60°-80°)   | 211.2  | 4.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 32.4   | 0.7       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 610.6  | 610.6  | 610.6  | 610.6  | 610.6  | 610.6  | 610.6  | 610.6  | 610.6  | 610.6  | 610.6  |
| 2.5°  | 553.1  | 548.2  | 553.1  | 556.4  | 556.4  | 556.4  | 561.3  | 576.1  | 586.0  | 592.5  | 604.0  |
| 5°    | 495.7  | 497.3  | 500.6  | 508.8  | 513.7  | 517.0  | 525.2  | 543.3  | 558.1  | 579.4  | 604.0  |
| 7.5°  | 444.8  | 448.1  | 453.0  | 461.2  | 472.7  | 471.1  | 489.1  | 513.7  | 541.6  | 569.5  | 605.7  |
| 10°   | 418.5  | 425.1  | 426.7  | 428.4  | 439.9  | 439.9  | 464.5  | 492.4  | 526.9  | 563.0  | 605.7  |
| 12.5° | 423.5  | 423.5  | 418.5  | 416.9  | 423.5  | 421.8  | 443.2  | 476.0  | 513.7  | 564.6  | 612.2  |
| 15°   | 438.2  | 438.2  | 428.4  | 418.5  | 428.4  | 425.1  | 443.2  | 469.4  | 513.7  | 566.3  | 625.3  |
| 17.5° | 457.9  | 459.6  | 448.1  | 431.7  | 435.0  | 436.6  | 449.7  | 474.3  | 513.7  | 569.5  | 643.4  |
| 20°   | 497.3  | 489.1  | 471.1  | 444.8  | 456.3  | 451.4  | 471.1  | 492.4  | 523.6  | 582.7  | 669.7  |
| 22.5° | 531.8  | 531.8  | 497.3  | 474.3  | 476.0  | 476.0  | 494.0  | 512.1  | 538.4  | 600.7  | 689.4  |
| 25°   | 587.6  | 584.3  | 541.6  | 507.2  | 510.5  | 512.1  | 521.9  | 543.3  | 563.0  | 610.6  | 714.0  |
| 27.5° | 658.2  | 650.0  | 607.3  | 567.9  | 554.8  | 559.7  | 564.6  | 581.0  | 586.0  | 627.0  | 743.5  |
| 30°   | 733.7  | 722.2  | 686.1  | 623.7  | 617.1  | 618.8  | 610.6  | 620.4  | 613.9  | 653.3  | 773.1  |
| 32.5° | 781.3  | 781.3  | 746.8  | 700.8  | 682.8  | 682.8  | 654.9  | 661.5  | 661.5  | 677.9  | 825.6  |
| 35°   | 822.3  | 819.0  | 796.0  | 761.6  | 750.1  | 743.5  | 715.6  | 725.5  | 709.1  | 725.5  | 899.5  |
| 37.5° | 884.7  | 874.8  | 865.0  | 842.0  | 819.0  | 814.1  | 799.3  | 805.9  | 782.9  | 774.7  | 983.2  |
| 40°   | 956.9  | 952.0  | 942.1  | 932.3  | 909.3  | 907.7  | 891.2  | 897.8  | 873.2  | 842.0  | 1066.9 |
| 42.5° | 1063.6 | 1048.8 | 1017.6 | 1009.4 | 1014.3 | 1020.9 | 1014.3 | 1002.9 | 958.5  | 919.1  | 1157.1 |
| 45°   | 1170.3 | 1147.3 | 1088.2 | 1075.1 | 1112.8 | 1107.9 | 1135.8 | 1130.9 | 1058.7 | 996.3  | 1252.3 |
| 47.5° | 1239.2 | 1219.5 | 1171.9 | 1163.7 | 1180.1 | 1186.7 | 1270.4 | 1255.6 | 1140.7 | 1066.9 | 1344.3 |
| 50°   | 1288.4 | 1290.1 | 1227.7 | 1249.1 | 1270.4 | 1270.4 | 1375.4 | 1373.8 | 1240.8 | 1153.9 | 1464.1 |
| 52.5° | 1360.7 | 1337.7 | 1311.4 | 1331.1 | 1360.7 | 1377.1 | 1506.7 | 1470.6 | 1303.2 | 1227.7 | 1598.7 |
| 55°   | 1398.4 | 1388.6 | 1365.6 | 1400.1 | 1462.4 | 1470.6 | 1608.5 | 1580.6 | 1373.8 | 1314.7 | 1736.5 |
| 57.5° | 1413.2 | 1421.4 | 1459.1 | 1473.9 | 1560.9 | 1582.2 | 1700.4 | 1661.0 | 1439.4 | 1423.0 | 1843.2 |
| 60°   | 1478.8 | 1467.4 | 1518.2 | 1577.3 | 1661.0 | 1672.5 | 1815.3 | 1730.0 | 1503.5 | 1493.6 | 1877.7 |
| 62.5° | 1611.8 | 1582.2 | 1610.1 | 1680.7 | 1797.3 | 1812.0 | 1936.8 | 1821.9 | 1531.4 | 1541.2 | 1876.0 |
| 65°   | 1805.5 | 1784.1 | 1743.1 | 1798.9 | 1963.0 | 1984.4 | 2079.6 | 1900.7 | 1523.2 | 1524.8 | 1743.1 |
| 67.5° | 2033.6 | 1999.1 | 1956.5 | 1990.9 | 2191.2 | 2240.4 | 2253.6 | 1935.1 | 1465.7 | 1432.9 | 1418.1 |
| 70°   | 2233.9 | 2210.9 | 2183.0 | 2242.1 | 2521.1 | 2539.1 | 2470.2 | 1913.8 | 1306.5 | 1150.6 | 945.4  |
| 72.5° | 2421.0 | 2409.5 | 2425.9 | 2647.5 | 2967.5 | 2979.0 | 2673.7 | 1779.2 | 1032.4 | 697.6  | 439.9  |
| 75°   | 2435.7 | 2424.2 | 2537.5 | 2982.3 | 3527.2 | 3548.6 | 2800.1 | 1395.1 | 544.9  | 284.0  | 185.5  |
| 77.5° | 1649.5 | 1684.0 | 1895.7 | 2611.4 | 3240.0 | 3244.9 | 2289.7 | 648.3  | 224.9  | 167.4  | 129.7  |
| 80°   | 405.4  | 449.7  | 714.0  | 1350.8 | 2184.6 | 2238.8 | 1254.0 | 218.3  | 147.7  | 128.0  | 96.8   |
| 82.5° | 147.7  | 160.9  | 290.5  | 610.6  | 1227.7 | 1249.1 | 438.2  | 118.2  | 106.7  | 98.5   | 70.6   |
| 85°   | 70.6   | 72.2   | 137.9  | 300.4  | 620.4  | 613.9  | 157.6  | 70.6   | 77.1   | 67.3   | 42.7   |
| 87.5° | 29.5   | 29.5   | 60.7   | 139.5  | 274.1  | 265.9  | 50.9   | 32.8   | 44.3   | 39.4   | 21.3   |
| 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°    | 610.6  | 610.6  | 610.6 | 610.6 | 610.6 | 610.6 | 610.6 | 610.6 | 610.6 | 610.6 | 610.6 |
| 2.5°  | 612.2  | 615.5  | 628.6 | 638.5 | 648.3 | 656.5 | 669.7 | 669.7 | 677.9 | 677.9 | 677.9 |
| 5°    | 610.6  | 628.6  | 650.0 | 672.9 | 687.7 | 702.5 | 715.6 | 717.3 | 722.2 | 728.8 | 730.4 |
| 7.5°  | 617.1  | 635.2  | 669.7 | 702.5 | 720.5 | 727.1 | 743.5 | 738.6 | 738.6 | 738.6 | 743.5 |
| 10°   | 630.3  | 650.0  | 697.6 | 727.1 | 740.2 | 741.9 | 737.0 | 733.7 | 723.8 | 720.5 | 715.6 |
| 12.5° | 640.1  | 674.6  | 722.2 | 745.2 | 740.2 | 735.3 | 723.8 | 707.4 | 695.9 | 692.6 | 692.6 |
| 15°   | 664.7  | 699.2  | 743.5 | 751.7 | 743.5 | 717.3 | 702.5 | 684.4 | 674.6 | 659.8 | 666.4 |
| 17.5° | 686.1  | 725.5  | 764.9 | 755.0 | 738.6 | 697.6 | 676.2 | 650.0 | 636.8 | 620.4 | 620.4 |
| 20°   | 714.0  | 750.1  | 784.6 | 758.3 | 722.2 | 677.9 | 643.4 | 610.6 | 592.5 | 576.1 | 579.4 |
| 22.5° | 745.2  | 778.0  | 796.0 | 745.2 | 697.6 | 646.7 | 599.1 | 567.9 | 544.9 | 535.1 | 538.4 |
| 25°   | 769.8  | 805.9  | 802.6 | 723.8 | 668.0 | 607.3 | 554.8 | 525.2 | 520.3 | 510.5 | 510.5 |
| 27.5° | 801.0  | 838.7  | 797.7 | 697.6 | 618.8 | 544.9 | 512.1 | 500.6 | 500.6 | 495.7 | 499.0 |
| 30°   | 842.0  | 868.3  | 786.2 | 659.8 | 556.4 | 489.1 | 472.7 | 479.3 | 490.8 | 485.8 | 487.5 |
| 32.5° | 909.3  | 906.0  | 776.4 | 617.1 | 490.8 | 435.0 | 446.4 | 459.6 | 469.4 | 474.3 | 477.6 |
| 35°   | 975.0  | 953.6  | 764.9 | 559.7 | 430.0 | 408.7 | 418.5 | 433.3 | 451.4 | 456.3 | 457.9 |
| 37.5° | 1040.6 | 1002.9 | 745.2 | 489.1 | 392.3 | 385.7 | 395.6 | 403.8 | 418.5 | 421.8 | 425.1 |
| 40°   | 1109.5 | 1035.7 | 710.7 | 420.2 | 361.1 | 361.1 | 367.7 | 369.3 | 377.5 | 382.4 | 385.7 |
| 42.5° | 1170.3 | 1066.9 | 648.3 | 356.2 | 328.3 | 339.8 | 341.4 | 338.1 | 331.5 | 334.8 | 336.5 |
| 45°   | 1244.1 | 1101.3 | 576.1 | 310.2 | 303.6 | 318.4 | 321.7 | 308.6 | 297.1 | 290.5 | 287.2 |
| 47.5° | 1316.3 | 1137.4 | 513.7 | 272.5 | 280.7 | 303.6 | 303.6 | 288.9 | 269.2 | 252.8 | 246.2 |
| 50°   | 1382.0 | 1173.6 | 462.9 | 249.5 | 257.7 | 292.2 | 295.4 | 267.5 | 246.2 | 226.5 | 223.2 |
| 52.5° | 1492.0 | 1234.3 | 410.3 | 231.4 | 244.6 | 284.0 | 282.3 | 257.7 | 229.8 | 208.4 | 206.8 |
| 55°   | 1588.8 | 1295.0 | 341.4 | 213.4 | 231.4 | 272.5 | 277.4 | 247.8 | 210.1 | 190.4 | 187.1 |
| 57.5° | 1659.4 | 1309.8 | 272.5 | 195.3 | 218.3 | 259.3 | 265.9 | 228.1 | 197.0 | 180.5 | 178.9 |
| 60°   | 1672.5 | 1252.3 | 221.6 | 180.5 | 200.2 | 241.3 | 246.2 | 216.7 | 187.1 | 174.0 | 170.7 |
| 62.5° | 1611.8 | 1142.4 | 188.8 | 167.4 | 185.5 | 223.2 | 233.1 | 203.5 | 177.3 | 165.8 | 164.1 |
| 65°   | 1473.9 | 981.5  | 165.8 | 155.9 | 175.6 | 210.1 | 221.6 | 193.7 | 169.1 | 159.2 | 157.6 |
| 67.5° | 1167.0 | 753.4  | 147.7 | 147.7 | 162.5 | 197.0 | 213.4 | 187.1 | 160.9 | 154.3 | 152.6 |
| 70°   | 763.2  | 453.0  | 134.6 | 136.2 | 152.6 | 185.5 | 203.5 | 178.9 | 151.0 | 149.4 | 146.1 |
| 72.5° | 328.3  | 208.4  | 119.8 | 124.7 | 137.9 | 165.8 | 188.8 | 167.4 | 139.5 | 134.6 | 129.7 |
| 75°   | 151.0  | 126.4  | 108.3 | 111.6 | 123.1 | 146.1 | 170.7 | 154.3 | 129.7 | 121.5 | 116.5 |
| 77.5° | 106.7  | 91.9   | 90.3  | 96.8  | 105.0 | 126.4 | 151.0 | 144.4 | 119.8 | 113.3 | 110.0 |
| 80°   | 78.8   | 70.6   | 75.5  | 82.1  | 87.0  | 116.5 | 142.8 | 132.9 | 110.0 | 100.1 | 95.2  |
| 82.5° | 55.8   | 52.5   | 59.1  | 65.7  | 70.6  | 101.8 | 131.3 | 116.5 | 91.9  | 83.7  | 75.5  |
| 85°   | 32.8   | 34.5   | 41.0  | 44.3  | 49.2  | 75.5  | 110.0 | 93.6  | 70.6  | 54.2  | 52.5  |
| 87.5° | 14.8   | 14.8   | 19.7  | 21.3  | 24.6  | 44.3  | 73.9  | 59.1  | 44.3  | 34.5  | 32.8  |
| 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)