

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: P148209

Luminaire Tested: **VXS-E02-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148209  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-E02-LED-E1-5XQ-7030  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5809.6 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

Input Watts (W): 52.1  
Input Voltage (V): NR  
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



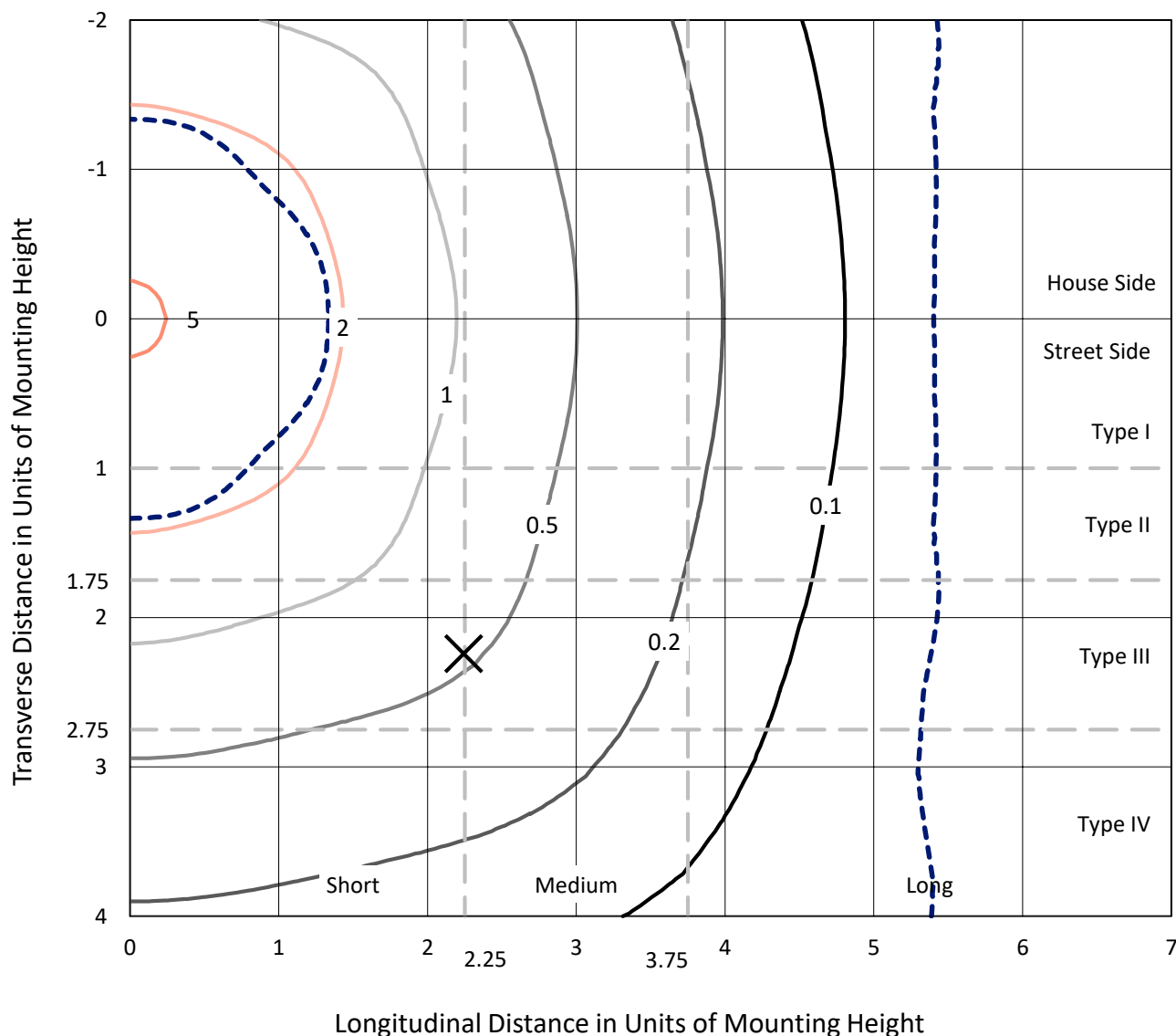
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

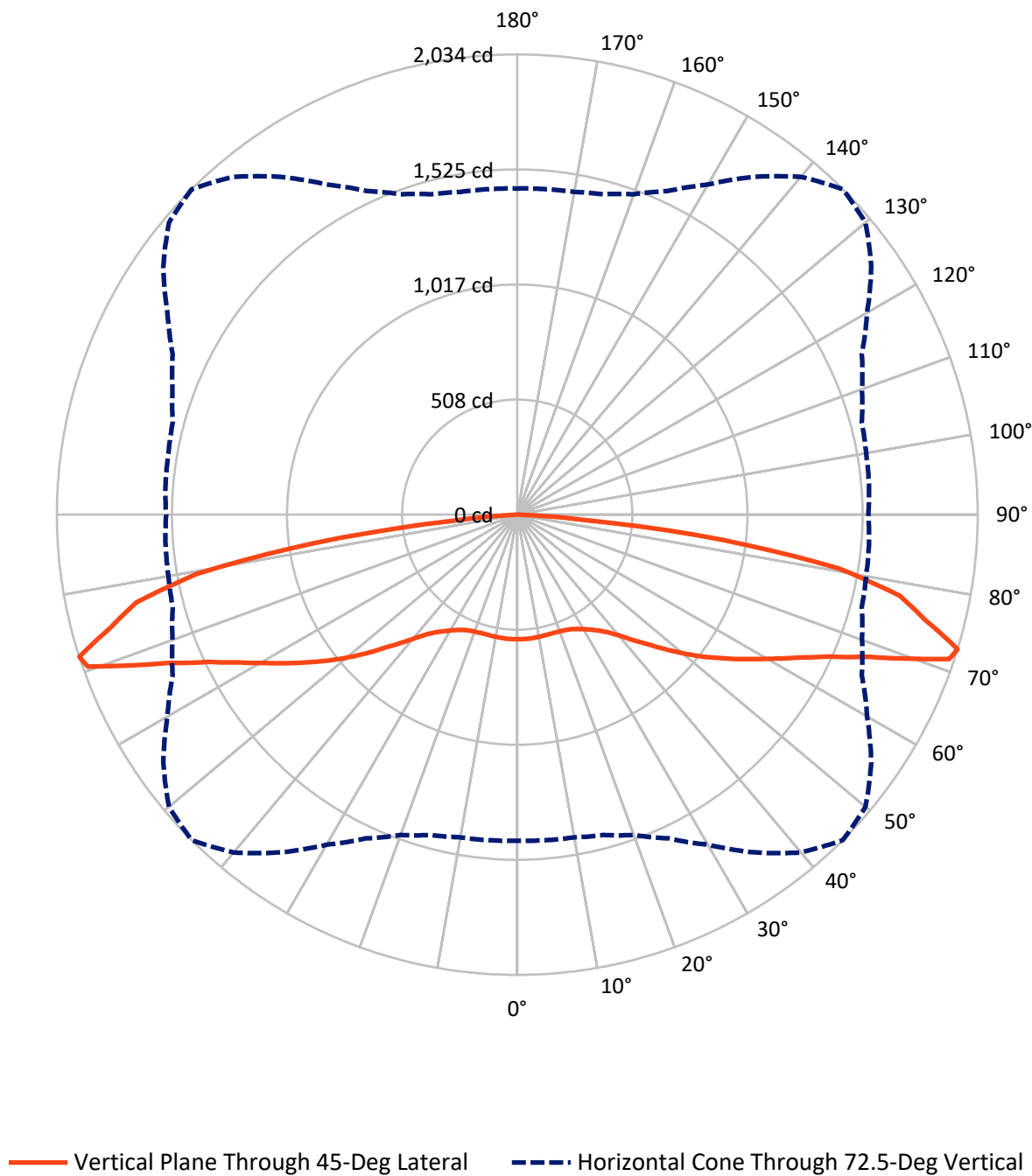


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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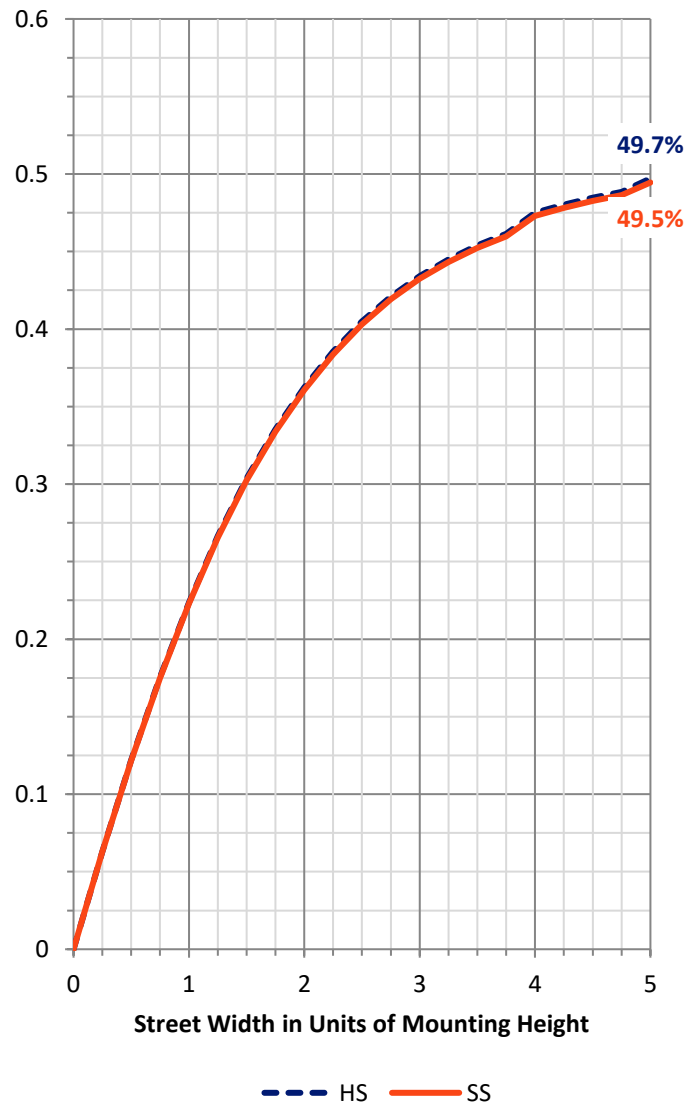
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2904.8   | 0.0    | 2904.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2904.8   | 0.0    | 2904.8 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5809.6   | 0.0    | 5809.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.5   | 0.9       |
| 10°-20°   | 155.2  | 2.7       |
| 20°-30°   | 259.9  | 4.5       |
| 30°-40°   | 396.2  | 6.8       |
| 40°-50°   | 632.6  | 10.9      |
| 50°-60°   | 972.6  | 16.7      |
| 60°-70°   | 1416.2 | 24.4      |
| 70°-80°   | 1595.3 | 27.5      |
| 80°-90°   | 329.3  | 5.7       |
| 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°    | 5809.6 | 100.0     |
| 0°-180°   | 5809.6 | 100.0     |

**Coefficient of Utilization**



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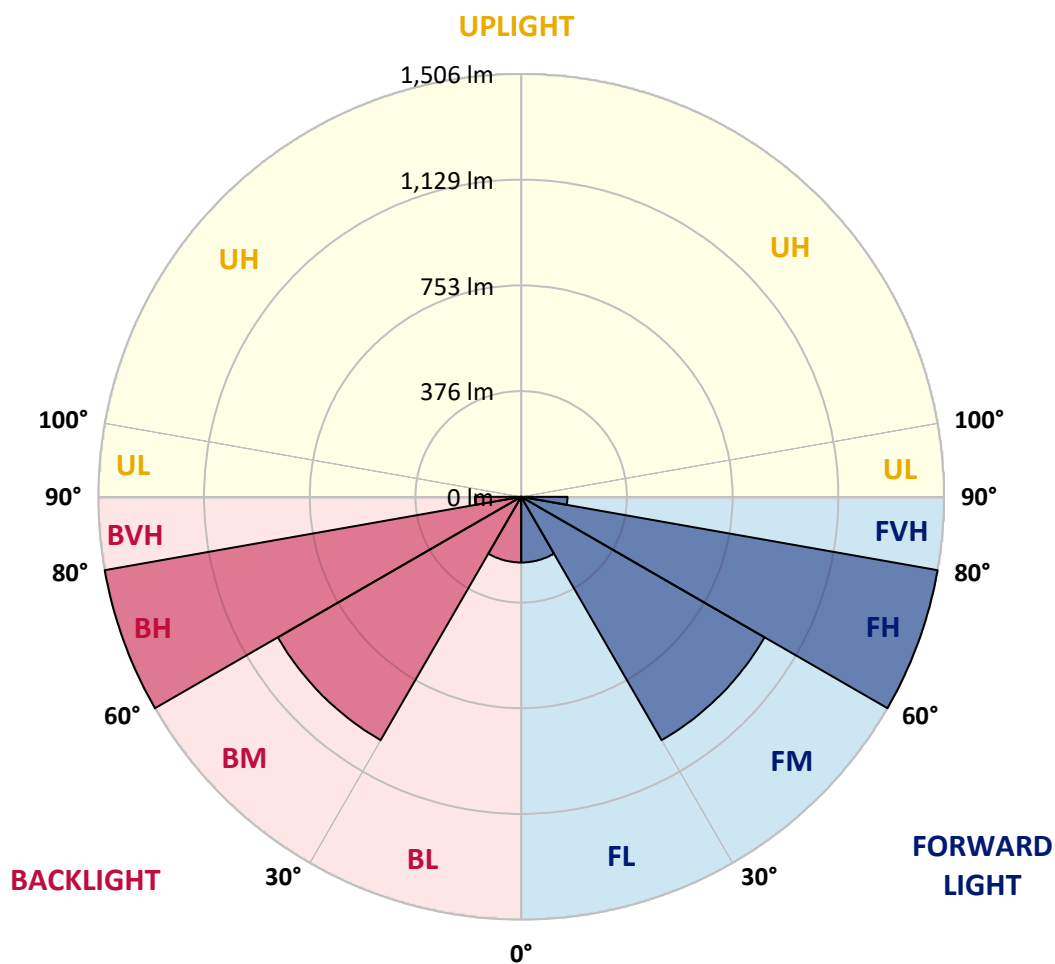
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 233.8  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 1000.7 | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 1505.7 | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 164.7  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 233.8  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1000.7 | 17.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1505.7 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 164.7  | 2.8       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  |
| 2.5°  | 551.3  | 551.7  | 551.5  | 551.2  | 551.4  | 551.2  | 550.9  | 550.7  | 549.6  | 550.3  | 551.2  |
| 5°    | 551.3  | 551.1  | 550.9  | 550.8  | 550.8  | 551.2  | 550.8  | 550.3  | 550.2  | 550.5  | 550.1  |
| 7.5°  | 551.1  | 550.5  | 550.2  | 550.1  | 550.2  | 550.3  | 549.8  | 549.2  | 549.6  | 549.2  | 548.6  |
| 10°   | 550.2  | 549.6  | 549.8  | 549.2  | 549.4  | 549.2  | 548.6  | 548.2  | 548.4  | 548.0  | 547.3  |
| 12.5° | 550.5  | 549.6  | 549.5  | 549.2  | 549.0  | 548.9  | 548.2  | 547.4  | 547.6  | 547.3  | 546.5  |
| 15°   | 550.5  | 550.1  | 549.8  | 549.2  | 549.0  | 548.8  | 547.9  | 547.6  | 547.6  | 547.2  | 546.2  |
| 17.5° | 550.8  | 550.5  | 550.5  | 549.6  | 549.4  | 549.2  | 548.2  | 547.8  | 548.2  | 547.3  | 546.6  |
| 20°   | 551.7  | 551.4  | 551.5  | 551.1  | 550.5  | 550.5  | 549.6  | 549.4  | 549.5  | 549.4  | 547.8  |
| 22.5° | 553.5  | 553.5  | 553.8  | 553.6  | 553.5  | 553.6  | 553.1  | 553.1  | 553.2  | 553.2  | 551.8  |
| 25°   | 558.7  | 558.5  | 558.8  | 558.9  | 559.0  | 560.0  | 559.6  | 559.4  | 560.2  | 560.2  | 558.9  |
| 27.5° | 568.4  | 568.1  | 568.4  | 568.7  | 569.4  | 570.9  | 570.6  | 571.0  | 572.2  | 571.9  | 570.7  |
| 30°   | 579.7  | 579.4  | 580.1  | 581.0  | 581.7  | 583.7  | 582.8  | 585.2  | 586.2  | 587.2  | 586.2  |
| 32.5° | 596.1  | 596.1  | 597.5  | 598.1  | 599.5  | 601.6  | 601.9  | 603.7  | 605.1  | 606.6  | 605.6  |
| 35°   | 618.0  | 617.7  | 618.9  | 619.9  | 621.6  | 623.5  | 624.2  | 626.7  | 628.8  | 629.9  | 628.0  |
| 37.5° | 651.6  | 649.8  | 651.8  | 652.4  | 653.8  | 654.3  | 656.4  | 659.5  | 661.8  | 661.5  | 660.1  |
| 40°   | 696.9  | 696.6  | 695.9  | 694.9  | 697.1  | 697.8  | 697.8  | 701.9  | 705.5  | 705.0  | 704.9  |
| 42.5° | 749.8  | 748.5  | 747.6  | 747.6  | 748.8  | 749.1  | 753.8  | 756.9  | 759.4  | 760.1  | 759.5  |
| 45°   | 806.8  | 805.4  | 805.8  | 805.2  | 805.6  | 807.6  | 810.3  | 816.0  | 820.8  | 820.9  | 818.3  |
| 47.5° | 868.0  | 863.7  | 867.0  | 862.4  | 865.3  | 866.7  | 873.6  | 881.9  | 890.4  | 891.9  | 889.6  |
| 50°   | 930.2  | 929.6  | 929.3  | 928.4  | 929.7  | 933.2  | 941.6  | 954.4  | 962.7  | 968.2  | 964.6  |
| 52.5° | 997.9  | 995.6  | 994.6  | 993.2  | 994.5  | 1001.0 | 1012.7 | 1024.0 | 1038.8 | 1045.0 | 1040.0 |
| 55°   | 1064.0 | 1063.3 | 1059.3 | 1059.2 | 1062.1 | 1072.3 | 1085.1 | 1098.9 | 1114.9 | 1121.9 | 1120.1 |
| 57.5° | 1131.9 | 1127.6 | 1126.3 | 1124.6 | 1130.3 | 1139.9 | 1155.5 | 1180.5 | 1197.1 | 1205.0 | 1200.4 |
| 60°   | 1198.3 | 1195.0 | 1192.3 | 1191.7 | 1195.8 | 1209.1 | 1231.7 | 1261.7 | 1282.3 | 1292.5 | 1285.3 |
| 62.5° | 1269.6 | 1267.5 | 1264.4 | 1260.9 | 1269.2 | 1286.4 | 1314.4 | 1347.7 | 1377.9 | 1390.7 | 1379.6 |
| 65°   | 1358.1 | 1353.8 | 1350.4 | 1346.0 | 1352.8 | 1374.4 | 1409.6 | 1456.4 | 1497.0 | 1511.9 | 1504.0 |
| 67.5° | 1451.6 | 1447.5 | 1447.9 | 1445.1 | 1457.2 | 1487.3 | 1532.6 | 1596.1 | 1650.6 | 1676.0 | 1661.0 |
| 70°   | 1533.3 | 1535.5 | 1536.1 | 1547.3 | 1568.2 | 1613.9 | 1689.3 | 1788.8 | 1871.5 | 1910.3 | 1894.3 |
| 71°   | 1509.2 | 1514.2 | 1522.0 | 1533.5 | 1569.7 | 1623.7 | 1726.8 | 1847.3 | 1945.9 | 2011.7 | 1989.6 |
| 72.5° | 1441.0 | 1444.0 | 1448.0 | 1465.6 | 1506.5 | 1578.1 | 1684.2 | 1821.9 | 1948.6 | 2033.8 | 2008.2 |
| 75°   | 1342.4 | 1345.2 | 1346.5 | 1359.0 | 1396.3 | 1458.7 | 1555.8 | 1677.8 | 1789.6 | 1862.2 | 1855.0 |
| 77.5° | 1193.5 | 1193.9 | 1204.6 | 1223.6 | 1265.5 | 1336.8 | 1439.2 | 1565.8 | 1671.0 | 1727.3 | 1691.6 |
| 80°   | 857.0  | 851.2  | 862.2  | 886.7  | 938.4  | 1020.3 | 1125.1 | 1269.7 | 1386.4 | 1439.2 | 1383.7 |
| 82.5° | 326.0  | 343.7  | 371.6  | 412.0  | 429.6  | 520.6  | 618.3  | 703.2  | 801.7  | 911.5  | 883.9  |
| 85°   | 35.0   | 39.5   | 49.4   | 61.3   | 77.5   | 107.2  | 148.2  | 202.2  | 249.1  | 292.8  | 260.0  |
| 87.5° | 13.1   | 13.4   | 14.9   | 17.2   | 17.5   | 18.2   | 19.5   | 22.7   | 21.1   | 18.2   | 14.7   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  | 550.5  |
| 2.5°  | 550.5  | 550.6  | 550.5  | 550.6  | 550.6  | 549.9  | 550.2  | 549.8  |
| 5°    | 550.3  | 549.8  | 550.1  | 550.2  | 550.1  | 550.3  | 549.8  | 550.1  |
| 7.5°  | 549.5  | 548.6  | 548.9  | 548.9  | 548.6  | 549.1  | 548.8  | 548.6  |
| 10°   | 548.0  | 546.7  | 547.4  | 547.2  | 546.9  | 547.2  | 547.2  | 547.2  |
| 12.5° | 546.6  | 545.9  | 546.0  | 545.9  | 545.7  | 546.1  | 546.0  | 546.1  |
| 15°   | 546.3  | 545.1  | 545.0  | 544.7  | 544.9  | 545.2  | 545.1  | 545.5  |
| 17.5° | 546.0  | 544.5  | 544.4  | 544.0  | 544.2  | 544.9  | 545.0  | 544.7  |
| 20°   | 546.9  | 545.7  | 545.5  | 545.1  | 545.0  | 545.7  | 545.6  | 545.5  |
| 22.5° | 551.2  | 549.6  | 549.5  | 548.3  | 547.9  | 548.3  | 548.0  | 548.0  |
| 25°   | 558.1  | 556.3  | 555.6  | 554.0  | 552.7  | 552.7  | 552.2  | 551.9  |
| 27.5° | 570.4  | 567.7  | 567.0  | 565.7  | 563.9  | 564.4  | 563.4  | 563.3  |
| 30°   | 584.7  | 582.3  | 580.1  | 578.1  | 576.2  | 575.4  | 574.3  | 574.2  |
| 32.5° | 603.4  | 600.7  | 598.1  | 595.6  | 593.0  | 591.8  | 590.1  | 589.0  |
| 35°   | 626.4  | 622.8  | 619.7  | 618.0  | 615.3  | 613.9  | 612.7  | 614.1  |
| 37.5° | 658.5  | 654.1  | 652.6  | 650.6  | 648.8  | 646.6  | 647.0  | 646.6  |
| 40°   | 703.0  | 699.1  | 697.5  | 694.0  | 693.6  | 691.1  | 692.6  | 691.1  |
| 42.5° | 757.9  | 750.6  | 749.5  | 746.8  | 745.9  | 744.6  | 745.2  | 744.0  |
| 45°   | 817.8  | 811.2  | 809.9  | 805.6  | 805.7  | 802.5  | 803.7  | 803.7  |
| 47.5° | 885.1  | 878.1  | 872.5  | 869.3  | 868.2  | 866.1  | 867.3  | 867.0  |
| 50°   | 954.4  | 945.2  | 939.0  | 932.6  | 929.9  | 930.7  | 928.6  | 932.2  |
| 52.5° | 1029.0 | 1015.1 | 1006.3 | 1000.4 | 995.2  | 996.3  | 996.6  | 997.7  |
| 55°   | 1106.2 | 1088.6 | 1075.8 | 1068.0 | 1063.3 | 1063.6 | 1065.0 | 1066.2 |
| 57.5° | 1183.8 | 1161.8 | 1144.5 | 1132.8 | 1129.8 | 1131.2 | 1131.2 | 1131.0 |
| 60°   | 1264.4 | 1237.9 | 1215.5 | 1202.5 | 1199.7 | 1199.0 | 1204.8 | 1202.9 |
| 62.5° | 1350.9 | 1319.1 | 1295.9 | 1279.2 | 1275.2 | 1277.9 | 1283.2 | 1282.1 |
| 65°   | 1465.5 | 1421.5 | 1391.7 | 1375.0 | 1368.3 | 1371.1 | 1378.2 | 1377.9 |
| 67.5° | 1613.3 | 1551.8 | 1512.3 | 1491.1 | 1486.2 | 1489.5 | 1493.5 | 1497.2 |
| 70°   | 1834.3 | 1746.4 | 1690.2 | 1644.0 | 1624.2 | 1620.4 | 1624.5 | 1624.6 |
| 71°   | 1912.1 | 1811.2 | 1721.5 | 1665.2 | 1632.7 | 1619.1 | 1620.1 | 1613.3 |
| 72.5° | 1908.9 | 1784.5 | 1679.6 | 1620.7 | 1575.6 | 1564.8 | 1559.4 | 1551.1 |
| 75°   | 1780.3 | 1668.2 | 1577.2 | 1513.0 | 1469.5 | 1456.6 | 1447.3 | 1446.7 |
| 77.5° | 1614.5 | 1531.8 | 1431.5 | 1363.5 | 1310.7 | 1289.2 | 1279.6 | 1279.4 |
| 80°   | 1297.8 | 1174.1 | 1100.7 | 1059.8 | 996.0  | 977.6  | 958.1  | 950.8  |
| 82.5° | 784.9  | 613.3  | 498.8  | 443.1  | 412.4  | 339.6  | 304.8  | 288.3  |
| 85°   | 182.8  | 129.8  | 89.5   | 58.8   | 42.3   | 33.6   | 25.9   | 22.8   |
| 87.5° | 12.3   | 9.7    | 8.7    | 7.0    | 5.4    | 5.2    | 3.2    | 2.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)