

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: P148155

Luminaire Tested: **VXM-F02-LED-E1-5XQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148155  
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: VXM-F02-LED-E1-5XQ  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5251 lumens  
Efficiency: N/A  
Efficacy: 95.5 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): 55  
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



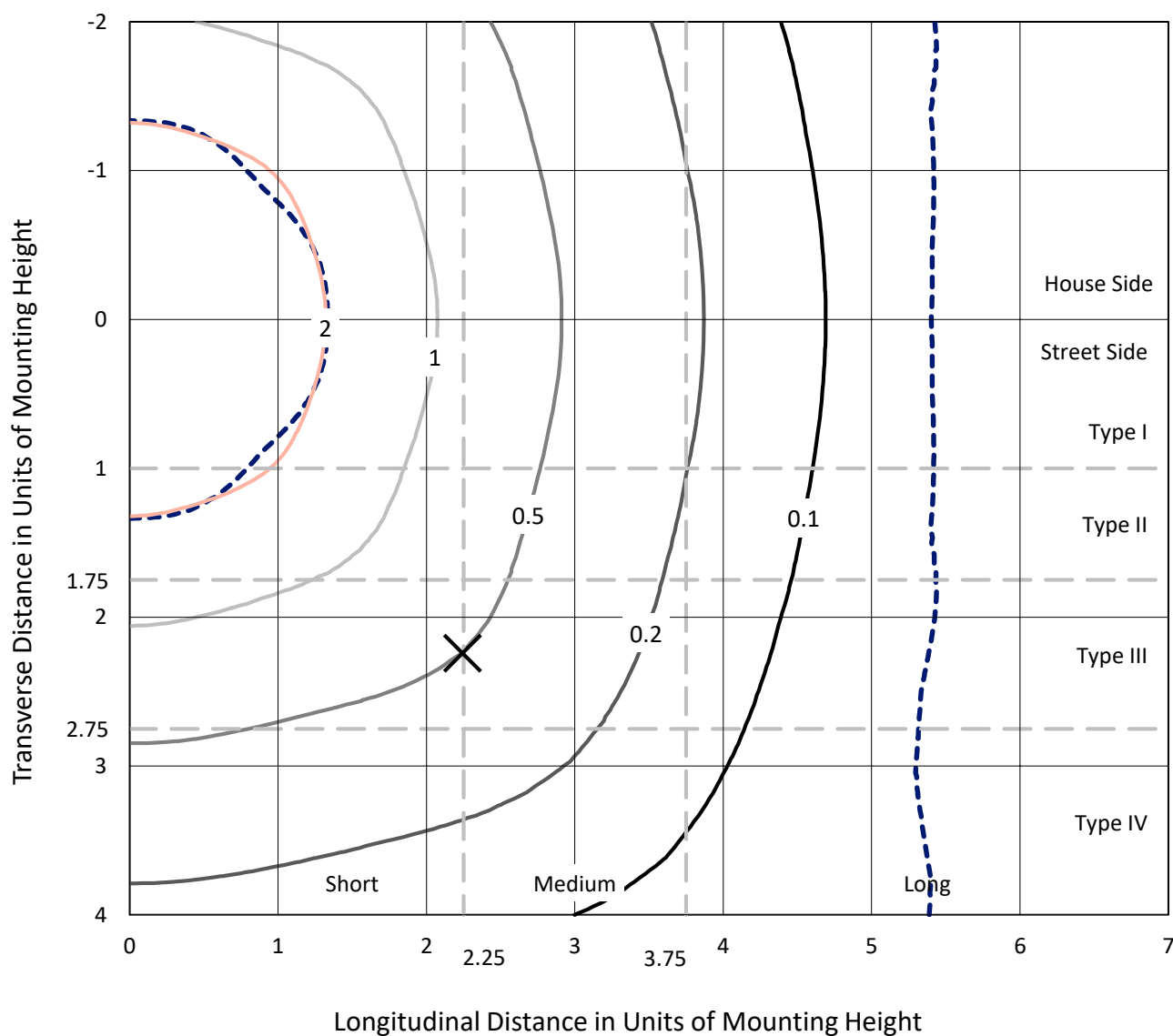
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

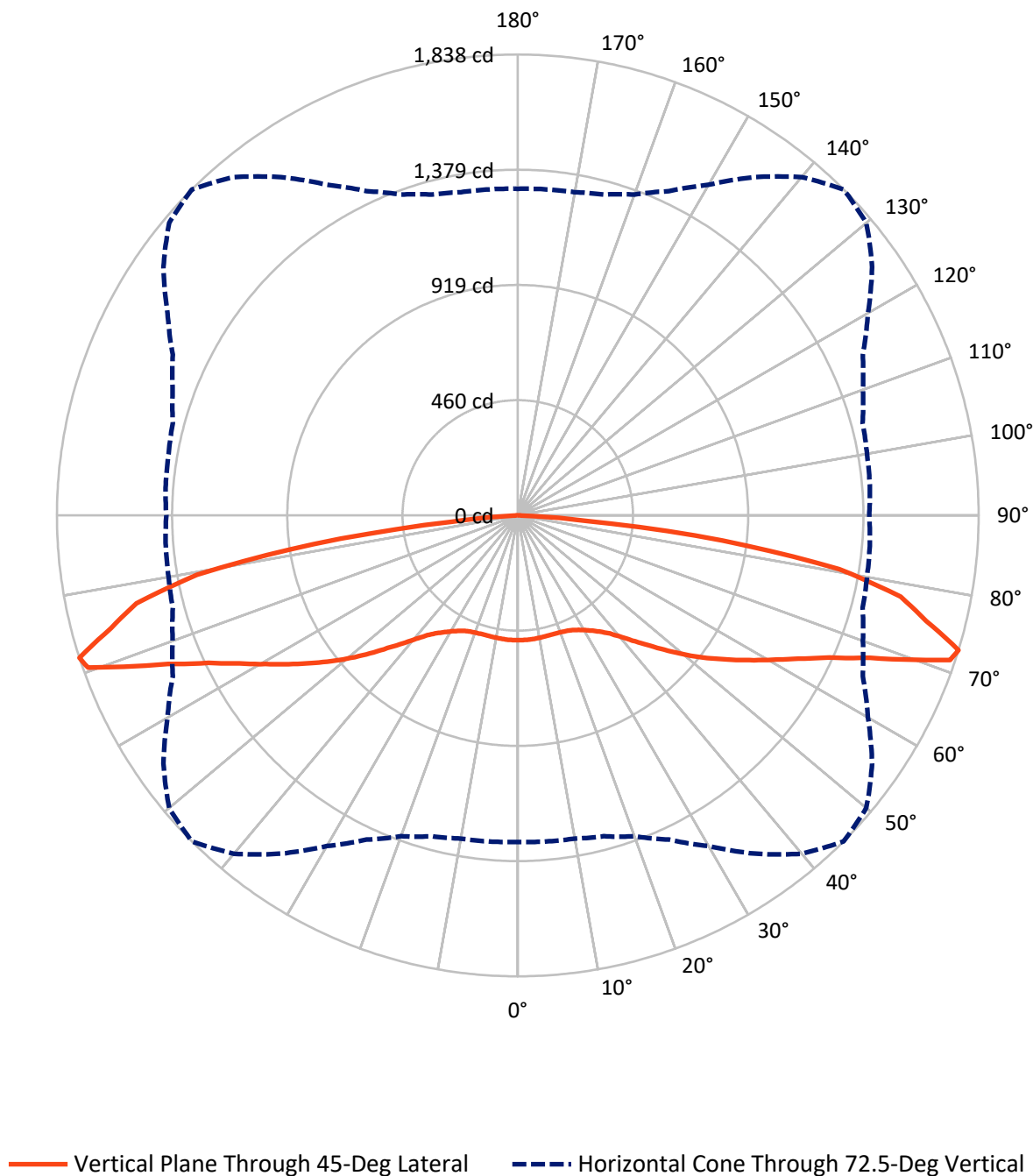


Based on 10 foot mounting height. Maximum calculated value = 5 fc  
Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2625.5   | 0.0    | 2625.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2625.5   | 0.0    | 2625.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5251.0   | 0.0    | 5251.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 47.4   | 0.9       |
| 10°-20°   | 140.3  | 2.7       |
| 20°-30°   | 234.9  | 4.5       |
| 30°-40°   | 358.1  | 6.8       |
| 40°-50°   | 571.7  | 10.9      |
| 50°-60°   | 879.1  | 16.7      |
| 60°-70°   | 1280.0 | 24.4      |
| 70°-80°   | 1441.9 | 27.5      |
| 80°-90°   | 297.7  | 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°    | 5251.0 | 100.0     |
| 0°-180°   | 5251.0 | 100.0     |

**Coefficient of Utilization**



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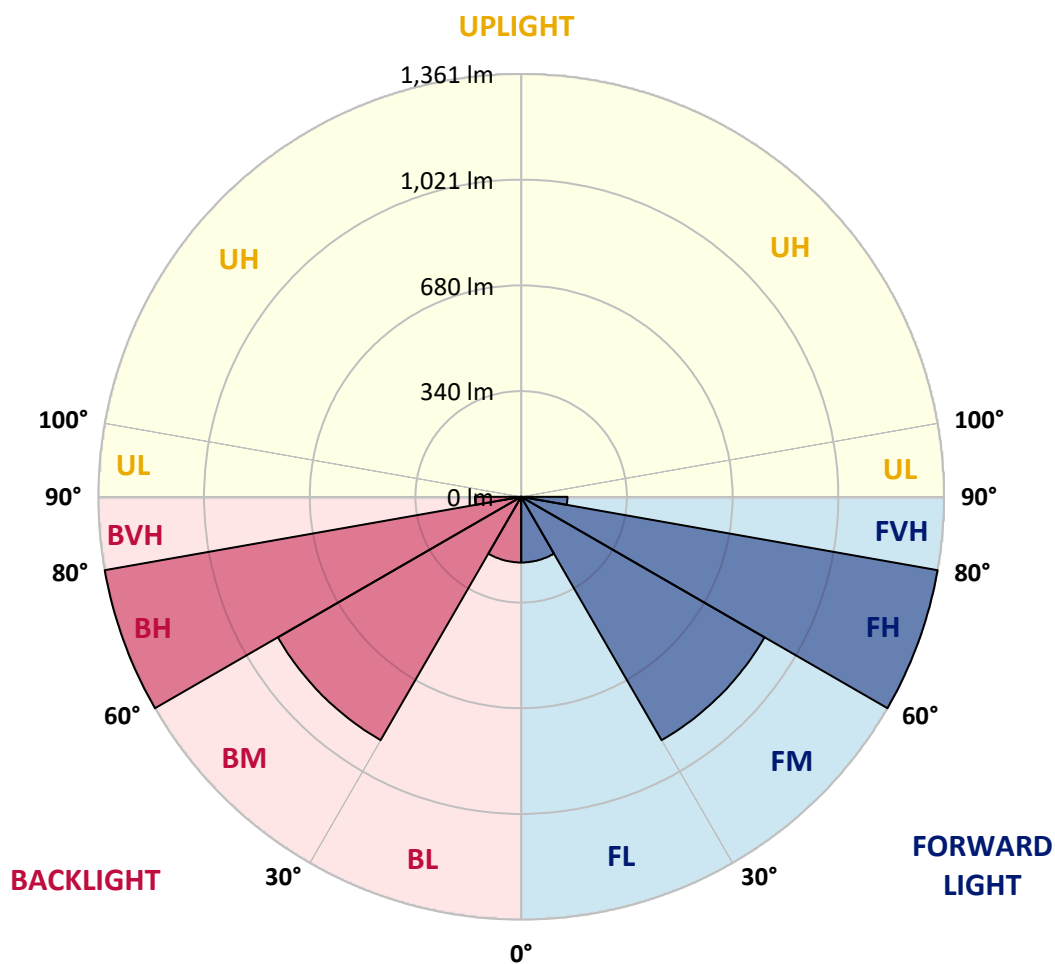
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 211.3  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 904.5  | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 1360.9 | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 148.8  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 211.3  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 904.5  | 17.2      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1360.9 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 148.8  | 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°    | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  |
| 2.5°  | 498.4  | 498.6  | 498.5  | 498.2  | 498.3  | 498.2  | 497.9  | 497.8  | 496.8  | 497.4  | 498.2  |
| 5°    | 498.4  | 498.1  | 497.9  | 497.8  | 497.8  | 498.2  | 497.8  | 497.4  | 497.2  | 497.5  | 497.1  |
| 7.5°  | 498.0  | 497.6  | 497.3  | 497.1  | 497.2  | 497.4  | 497.0  | 496.4  | 496.8  | 496.4  | 495.9  |
| 10°   | 497.2  | 496.8  | 497.0  | 496.4  | 496.6  | 496.4  | 495.9  | 495.4  | 495.8  | 495.3  | 494.6  |
| 12.5° | 497.5  | 496.8  | 496.7  | 496.4  | 496.3  | 496.1  | 495.4  | 494.8  | 494.9  | 494.6  | 493.9  |
| 15°   | 497.5  | 497.1  | 497.0  | 496.4  | 496.3  | 496.0  | 495.2  | 494.9  | 494.9  | 494.5  | 493.7  |
| 17.5° | 497.8  | 497.5  | 497.5  | 496.8  | 496.6  | 496.4  | 495.5  | 495.0  | 495.5  | 494.6  | 494.1  |
| 20°   | 498.6  | 498.4  | 498.5  | 498.1  | 497.5  | 497.6  | 496.8  | 496.6  | 496.7  | 496.6  | 495.0  |
| 22.5° | 500.3  | 500.3  | 500.6  | 500.4  | 500.3  | 500.4  | 499.9  | 499.9  | 500.0  | 500.0  | 498.8  |
| 25°   | 505.0  | 504.8  | 505.1  | 505.1  | 505.2  | 506.2  | 505.8  | 505.6  | 506.3  | 506.3  | 505.1  |
| 27.5° | 513.8  | 513.5  | 513.8  | 514.0  | 514.7  | 516.0  | 515.7  | 516.1  | 517.2  | 516.9  | 515.8  |
| 30°   | 523.9  | 523.7  | 524.4  | 525.2  | 525.7  | 527.6  | 526.8  | 528.9  | 529.8  | 530.7  | 529.8  |
| 32.5° | 538.8  | 538.8  | 540.0  | 540.6  | 541.8  | 543.7  | 544.0  | 545.7  | 546.9  | 548.3  | 547.3  |
| 35°   | 558.6  | 558.3  | 559.3  | 560.2  | 561.8  | 563.6  | 564.2  | 566.4  | 568.4  | 569.4  | 567.6  |
| 37.5° | 588.9  | 587.3  | 589.2  | 589.7  | 591.0  | 591.3  | 593.2  | 596.0  | 598.1  | 597.8  | 596.6  |
| 40°   | 629.8  | 629.6  | 628.9  | 628.1  | 630.0  | 630.7  | 630.7  | 634.4  | 637.7  | 637.2  | 637.0  |
| 42.5° | 677.8  | 676.6  | 675.7  | 675.7  | 676.8  | 677.1  | 681.3  | 684.1  | 686.4  | 686.9  | 686.4  |
| 45°   | 729.2  | 728.0  | 728.2  | 727.7  | 728.1  | 729.9  | 732.4  | 737.5  | 741.9  | 742.0  | 739.7  |
| 47.5° | 784.6  | 780.7  | 783.7  | 779.4  | 782.0  | 783.4  | 789.6  | 797.1  | 804.8  | 806.1  | 804.1  |
| 50°   | 840.7  | 840.2  | 840.0  | 839.2  | 840.4  | 843.4  | 851.0  | 862.7  | 870.1  | 875.1  | 871.8  |
| 52.5° | 902.0  | 900.0  | 899.0  | 897.6  | 898.9  | 904.8  | 915.4  | 925.6  | 938.9  | 944.5  | 940.0  |
| 55°   | 961.8  | 961.1  | 957.5  | 957.4  | 960.0  | 969.2  | 980.7  | 993.2  | 1007.7 | 1014.0 | 1012.4 |
| 57.5° | 1023.1 | 1019.1 | 1018.0 | 1016.4 | 1021.6 | 1030.2 | 1044.4 | 1067.0 | 1082.0 | 1089.2 | 1085.0 |
| 60°   | 1083.0 | 1080.0 | 1077.7 | 1077.2 | 1080.8 | 1092.8 | 1113.2 | 1140.4 | 1158.9 | 1168.3 | 1161.6 |
| 62.5° | 1147.4 | 1145.5 | 1142.8 | 1139.6 | 1147.2 | 1162.8 | 1188.1 | 1218.1 | 1245.4 | 1257.0 | 1247.0 |
| 65°   | 1227.6 | 1223.6 | 1220.6 | 1216.5 | 1222.7 | 1242.3 | 1274.0 | 1316.3 | 1353.0 | 1366.5 | 1359.4 |
| 67.5° | 1312.1 | 1308.3 | 1308.6 | 1306.1 | 1317.1 | 1344.2 | 1385.2 | 1442.6 | 1491.8 | 1514.8 | 1501.4 |
| 70°   | 1385.8 | 1387.9 | 1388.4 | 1398.4 | 1417.4 | 1458.7 | 1527.0 | 1616.8 | 1691.5 | 1726.6 | 1712.1 |
| 71°   | 1364.1 | 1368.6 | 1375.6 | 1386.0 | 1418.8 | 1467.6 | 1560.8 | 1669.6 | 1758.8 | 1818.2 | 1798.3 |
| 72.5° | 1302.4 | 1305.2 | 1308.7 | 1324.7 | 1361.7 | 1426.4 | 1522.3 | 1646.6 | 1761.3 | 1838.2 | 1815.0 |
| 75°   | 1213.2 | 1215.9 | 1217.1 | 1228.2 | 1262.0 | 1318.4 | 1406.2 | 1516.5 | 1617.6 | 1683.1 | 1676.6 |
| 77.5° | 1078.6 | 1079.1 | 1088.7 | 1105.9 | 1143.8 | 1208.3 | 1300.8 | 1415.2 | 1510.3 | 1561.2 | 1528.9 |
| 80°   | 774.6  | 769.4  | 779.3  | 801.4  | 848.2  | 922.2  | 1016.9 | 1147.6 | 1253.2 | 1300.8 | 1250.6 |
| 82.5° | 294.7  | 310.7  | 335.8  | 372.5  | 388.3  | 470.6  | 558.9  | 635.7  | 724.6  | 823.8  | 799.0  |
| 85°   | 31.6   | 35.6   | 44.7   | 55.4   | 70.0   | 96.8   | 133.8  | 182.7  | 225.2  | 264.7  | 235.0  |
| 87.5° | 11.8   | 12.1   | 13.5   | 15.6   | 15.8   | 16.5   | 17.6   | 20.5   | 19.2   | 16.5   | 13.4   |
| 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°    | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  | 497.5  |
| 2.5°  | 497.5  | 497.6  | 497.5  | 497.7  | 497.7  | 497.1  | 497.3  | 497.0  |
| 5°    | 497.4  | 497.0  | 497.1  | 497.2  | 497.1  | 497.4  | 497.0  | 497.2  |
| 7.5°  | 496.7  | 495.9  | 496.2  | 496.2  | 495.9  | 496.3  | 496.0  | 495.9  |
| 10°   | 495.3  | 494.2  | 494.8  | 494.5  | 494.4  | 494.5  | 494.5  | 494.5  |
| 12.5° | 494.1  | 493.4  | 493.6  | 493.4  | 493.3  | 493.7  | 493.6  | 493.6  |
| 15°   | 493.8  | 492.7  | 492.6  | 492.3  | 492.4  | 492.7  | 492.7  | 493.2  |
| 17.5° | 493.6  | 492.2  | 492.0  | 491.8  | 491.9  | 492.4  | 492.6  | 492.3  |
| 20°   | 494.4  | 493.3  | 493.0  | 492.7  | 492.6  | 493.3  | 493.1  | 493.2  |
| 22.5° | 498.2  | 496.8  | 496.7  | 495.6  | 495.2  | 495.6  | 495.3  | 495.3  |
| 25°   | 504.4  | 502.7  | 502.2  | 500.7  | 499.6  | 499.6  | 499.2  | 498.9  |
| 27.5° | 515.6  | 513.0  | 512.5  | 511.3  | 509.8  | 510.0  | 509.2  | 509.0  |
| 30°   | 528.4  | 526.2  | 524.3  | 522.6  | 520.8  | 520.1  | 519.1  | 519.0  |
| 32.5° | 545.4  | 542.9  | 540.6  | 538.4  | 535.9  | 535.0  | 533.2  | 532.4  |
| 35°   | 566.2  | 562.9  | 560.1  | 558.6  | 556.1  | 554.9  | 553.8  | 555.0  |
| 37.5° | 595.2  | 591.2  | 589.8  | 588.0  | 586.4  | 584.5  | 584.9  | 584.5  |
| 40°   | 635.4  | 631.8  | 630.4  | 627.2  | 626.8  | 624.7  | 626.0  | 624.6  |
| 42.5° | 685.0  | 678.4  | 677.5  | 675.0  | 674.2  | 673.0  | 673.5  | 672.6  |
| 45°   | 739.1  | 733.2  | 732.1  | 728.1  | 728.2  | 725.3  | 726.4  | 726.4  |
| 47.5° | 800.0  | 793.8  | 788.7  | 785.8  | 784.7  | 782.9  | 783.8  | 783.7  |
| 50°   | 862.7  | 854.3  | 848.6  | 843.0  | 840.5  | 841.2  | 839.3  | 842.6  |
| 52.5° | 930.1  | 917.6  | 909.6  | 904.2  | 899.6  | 900.5  | 900.8  | 901.8  |
| 55°   | 999.8  | 983.9  | 972.4  | 965.4  | 961.1  | 961.3  | 962.6  | 963.6  |
| 57.5° | 1070.0 | 1050.1 | 1034.4 | 1023.9 | 1021.2 | 1022.4 | 1022.4 | 1022.2 |
| 60°   | 1142.8 | 1118.9 | 1098.6 | 1086.8 | 1084.4 | 1083.6 | 1089.0 | 1087.2 |
| 62.5° | 1221.0 | 1192.2 | 1171.2 | 1156.1 | 1152.6 | 1155.0 | 1159.9 | 1158.8 |
| 65°   | 1324.6 | 1284.8 | 1257.8 | 1242.8 | 1236.8 | 1239.2 | 1245.7 | 1245.4 |
| 67.5° | 1458.2 | 1402.6 | 1366.9 | 1347.7 | 1343.3 | 1346.3 | 1349.9 | 1353.3 |
| 70°   | 1657.9 | 1578.6 | 1527.6 | 1486.0 | 1468.0 | 1464.6 | 1468.2 | 1468.4 |
| 71°   | 1728.2 | 1637.0 | 1556.0 | 1505.1 | 1475.8 | 1463.4 | 1464.4 | 1458.2 |
| 72.5° | 1725.4 | 1613.0 | 1518.2 | 1464.9 | 1424.2 | 1414.3 | 1409.4 | 1402.0 |
| 75°   | 1609.1 | 1507.8 | 1425.6 | 1367.5 | 1328.3 | 1316.6 | 1308.1 | 1307.6 |
| 77.5° | 1459.3 | 1384.5 | 1293.9 | 1232.4 | 1184.6 | 1165.2 | 1156.6 | 1156.3 |
| 80°   | 1173.1 | 1061.2 | 994.9  | 957.9  | 900.2  | 883.6  | 866.0  | 859.4  |
| 82.5° | 709.4  | 554.4  | 450.8  | 400.5  | 372.7  | 307.0  | 275.5  | 260.6  |
| 85°   | 165.2  | 117.4  | 80.9   | 53.1   | 38.2   | 30.4   | 23.4   | 20.6   |
| 87.5° | 11.1   | 8.8    | 7.8    | 6.3    | 4.8    | 4.7    | 2.9    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)