

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: P148154

Luminaire Tested: **VXM-F02-LED-E1-5XQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148154  
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-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4796 lumens  
Efficiency: N/A  
Efficacy: 87.2 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

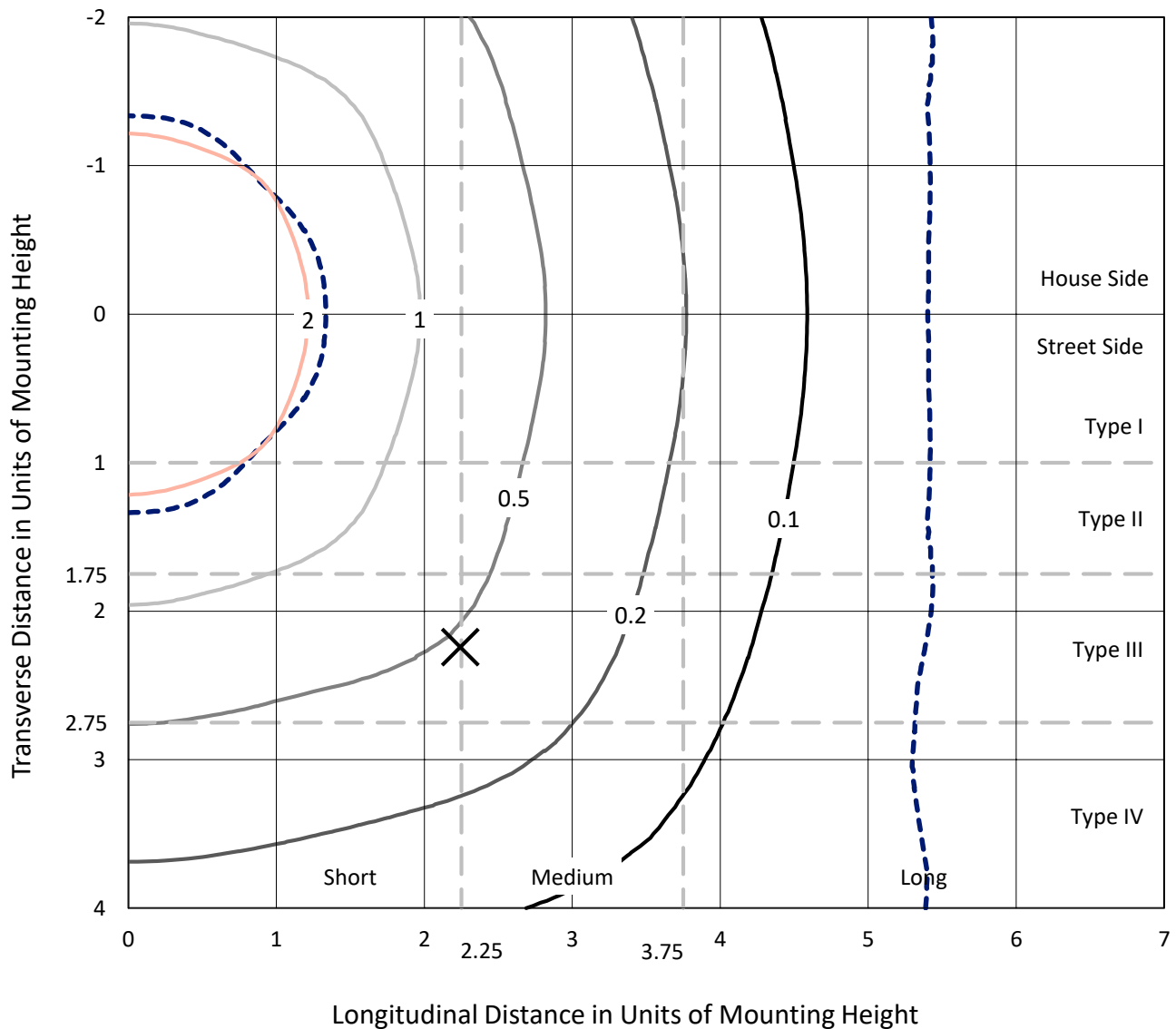


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

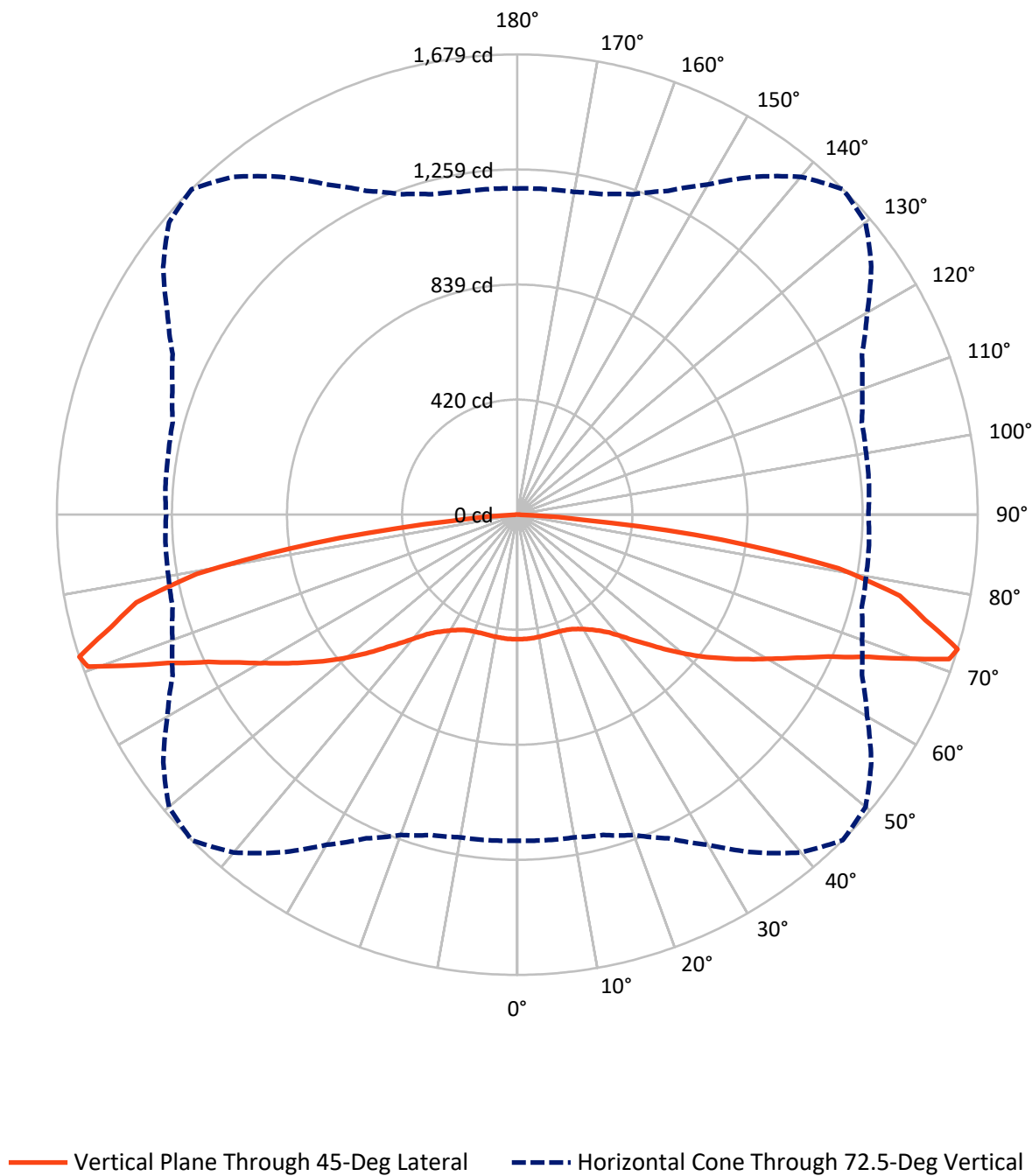


Based on 10 foot mounting height. Maximum calculated value = 4.5 fc  
Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2398.0   | 0.0    | 2398.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2398.0   | 0.0    | 2398.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 4796.0   | 0.0    | 4796.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 43.3   | 0.9       |
| 10°-20°   | 128.1  | 2.7       |
| 20°-30°   | 214.5  | 4.5       |
| 30°-40°   | 327.0  | 6.8       |
| 40°-50°   | 522.2  | 10.9      |
| 50°-60°   | 802.9  | 16.7      |
| 60°-70°   | 1169.1 | 24.4      |
| 70°-80°   | 1317.0 | 27.5      |
| 80°-90°   | 271.9  | 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°    | 4796.0 | 100.0     |
| 0°-180°   | 4796.0 | 100.0     |

**Coefficient of Utilization**



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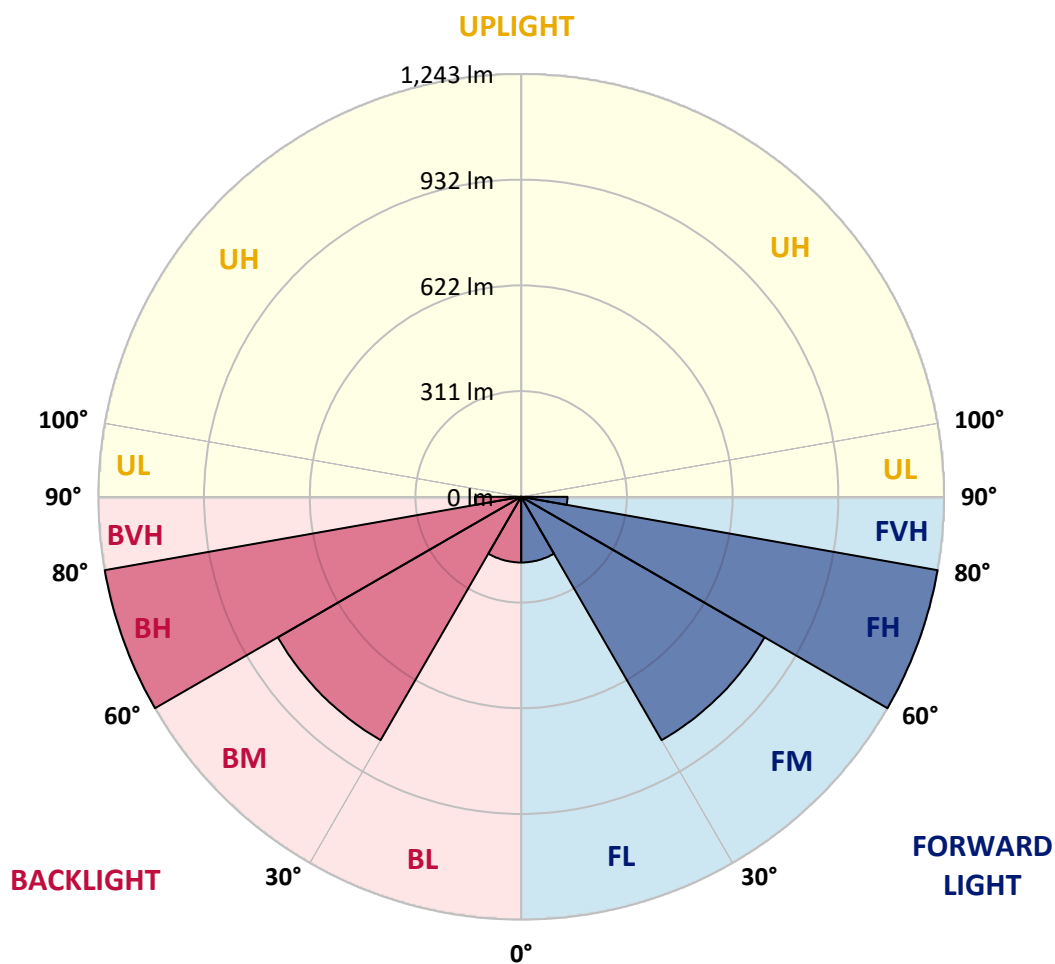
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 193.0  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 826.1  | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 1243.0 | 25.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 135.9  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 193.0  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 826.1  | 17.2      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 1243.0 | 25.9      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 135.9  | 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°    | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  |
| 2.5°  | 455.2  | 455.4  | 455.3  | 455.0  | 455.2  | 455.0  | 454.8  | 454.6  | 453.8  | 454.3  | 455.0  |
| 5°    | 455.2  | 454.9  | 454.8  | 454.6  | 454.6  | 455.0  | 454.6  | 454.3  | 454.2  | 454.4  | 454.0  |
| 7.5°  | 454.9  | 454.4  | 454.2  | 454.0  | 454.2  | 454.3  | 453.9  | 453.4  | 453.8  | 453.4  | 452.9  |
| 10°   | 454.2  | 453.8  | 453.9  | 453.4  | 453.5  | 453.4  | 452.9  | 452.5  | 452.8  | 452.4  | 451.8  |
| 12.5° | 454.4  | 453.8  | 453.6  | 453.4  | 453.3  | 453.2  | 452.5  | 451.9  | 452.0  | 451.8  | 451.2  |
| 15°   | 454.4  | 454.0  | 453.9  | 453.4  | 453.3  | 453.0  | 452.3  | 452.0  | 452.0  | 451.6  | 450.9  |
| 17.5° | 454.6  | 454.4  | 454.4  | 453.8  | 453.5  | 453.4  | 452.5  | 452.2  | 452.5  | 451.8  | 451.3  |
| 20°   | 455.4  | 455.2  | 455.3  | 454.9  | 454.4  | 454.4  | 453.8  | 453.5  | 453.6  | 453.5  | 452.2  |
| 22.5° | 456.9  | 456.9  | 457.2  | 457.0  | 456.9  | 457.0  | 456.5  | 456.5  | 456.6  | 456.6  | 455.5  |
| 25°   | 461.2  | 461.1  | 461.3  | 461.3  | 461.4  | 462.3  | 462.0  | 461.8  | 462.4  | 462.4  | 461.3  |
| 27.5° | 469.2  | 469.0  | 469.2  | 469.5  | 470.1  | 471.2  | 471.0  | 471.4  | 472.4  | 472.1  | 471.1  |
| 30°   | 478.6  | 478.3  | 478.9  | 479.7  | 480.2  | 481.9  | 481.2  | 483.0  | 483.9  | 484.7  | 483.9  |
| 32.5° | 492.1  | 492.1  | 493.3  | 493.8  | 494.9  | 496.6  | 496.9  | 498.4  | 499.5  | 500.8  | 499.9  |
| 35°   | 510.2  | 510.0  | 510.8  | 511.7  | 513.1  | 514.8  | 515.4  | 517.4  | 519.1  | 520.0  | 518.4  |
| 37.5° | 537.8  | 536.5  | 538.1  | 538.6  | 539.7  | 540.1  | 541.8  | 544.4  | 546.2  | 546.0  | 544.9  |
| 40°   | 575.3  | 575.0  | 574.4  | 573.7  | 575.4  | 576.0  | 576.0  | 579.4  | 582.4  | 582.0  | 581.8  |
| 42.5° | 619.0  | 617.9  | 617.1  | 617.1  | 618.1  | 618.4  | 622.3  | 624.8  | 627.0  | 627.5  | 627.0  |
| 45°   | 666.0  | 664.9  | 665.2  | 664.6  | 665.0  | 666.7  | 668.9  | 673.6  | 677.6  | 677.7  | 675.6  |
| 47.5° | 716.5  | 713.0  | 715.8  | 711.9  | 714.3  | 715.5  | 721.2  | 728.0  | 735.0  | 736.3  | 734.4  |
| 50°   | 767.8  | 767.4  | 767.2  | 766.4  | 767.6  | 770.3  | 777.2  | 787.9  | 794.7  | 799.2  | 796.2  |
| 52.5° | 823.9  | 822.0  | 821.1  | 819.8  | 821.0  | 826.4  | 836.0  | 845.4  | 857.6  | 862.7  | 858.6  |
| 55°   | 878.4  | 877.8  | 874.5  | 874.4  | 876.8  | 885.2  | 895.7  | 907.2  | 920.4  | 926.2  | 924.6  |
| 57.5° | 934.4  | 930.8  | 929.8  | 928.3  | 933.0  | 941.0  | 953.9  | 974.5  | 988.2  | 994.8  | 991.0  |
| 60°   | 989.2  | 986.5  | 984.3  | 983.8  | 987.1  | 998.2  | 1016.8 | 1041.5 | 1058.5 | 1067.0 | 1061.0 |
| 62.5° | 1048.1 | 1046.3 | 1043.8 | 1040.9 | 1047.8 | 1062.0 | 1085.1 | 1112.5 | 1137.5 | 1148.1 | 1138.9 |
| 65°   | 1121.2 | 1117.6 | 1114.8 | 1111.1 | 1116.8 | 1134.6 | 1163.7 | 1202.2 | 1235.8 | 1248.1 | 1241.6 |
| 67.5° | 1198.4 | 1195.0 | 1195.2 | 1193.0 | 1203.0 | 1227.7 | 1265.2 | 1317.6 | 1362.6 | 1383.6 | 1371.2 |
| 70°   | 1265.8 | 1267.6 | 1268.1 | 1277.3 | 1294.6 | 1332.3 | 1394.6 | 1476.7 | 1544.9 | 1577.0 | 1563.8 |
| 71°   | 1245.8 | 1250.0 | 1256.4 | 1266.0 | 1295.9 | 1340.5 | 1425.6 | 1525.0 | 1606.4 | 1660.7 | 1642.4 |
| 72.5° | 1189.6 | 1192.1 | 1195.4 | 1209.9 | 1243.7 | 1302.8 | 1390.4 | 1504.0 | 1608.6 | 1678.9 | 1657.8 |
| 75°   | 1108.1 | 1110.5 | 1111.6 | 1121.8 | 1152.6 | 1204.2 | 1284.3 | 1385.1 | 1477.4 | 1537.2 | 1531.4 |
| 77.5° | 985.2  | 985.6  | 994.4  | 1010.1 | 1044.7 | 1103.6 | 1188.1 | 1292.6 | 1379.4 | 1425.9 | 1396.4 |
| 80°   | 707.5  | 702.7  | 711.8  | 732.0  | 774.7  | 842.3  | 928.8  | 1048.2 | 1144.6 | 1188.1 | 1142.3 |
| 82.5° | 269.2  | 283.8  | 306.8  | 340.2  | 354.6  | 429.8  | 510.4  | 580.6  | 661.8  | 752.5  | 729.7  |
| 85°   | 28.9   | 32.6   | 40.8   | 50.6   | 64.0   | 88.4   | 122.3  | 166.9  | 205.7  | 241.8  | 214.6  |
| 87.5° | 10.8   | 11.0   | 12.3   | 14.2   | 14.4   | 15.1   | 16.1   | 18.7   | 17.5   | 15.1   | 12.2   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  | 454.4  |
| 2.5°  | 454.4  | 454.5  | 454.4  | 454.5  | 454.5  | 454.0  | 454.2  | 453.9  |
| 5°    | 454.3  | 453.9  | 454.0  | 454.2  | 454.0  | 454.3  | 453.9  | 454.2  |
| 7.5°  | 453.6  | 452.9  | 453.2  | 453.2  | 452.9  | 453.3  | 453.0  | 452.9  |
| 10°   | 452.4  | 451.4  | 451.9  | 451.6  | 451.5  | 451.6  | 451.6  | 451.6  |
| 12.5° | 451.3  | 450.6  | 450.8  | 450.6  | 450.5  | 450.9  | 450.8  | 450.9  |
| 15°   | 451.0  | 450.0  | 449.9  | 449.6  | 449.8  | 450.0  | 450.0  | 450.4  |
| 17.5° | 450.8  | 449.5  | 449.4  | 449.2  | 449.3  | 449.8  | 449.9  | 449.6  |
| 20°   | 451.5  | 450.5  | 450.3  | 450.0  | 449.9  | 450.5  | 450.4  | 450.4  |
| 22.5° | 455.0  | 453.8  | 453.6  | 452.6  | 452.3  | 452.6  | 452.4  | 452.4  |
| 25°   | 460.7  | 459.2  | 458.7  | 457.3  | 456.3  | 456.3  | 455.9  | 455.6  |
| 27.5° | 470.8  | 468.6  | 468.1  | 467.0  | 465.6  | 465.8  | 465.1  | 465.0  |
| 30°   | 482.7  | 480.6  | 478.9  | 477.3  | 475.6  | 475.0  | 474.2  | 474.0  |
| 32.5° | 498.1  | 495.8  | 493.7  | 491.7  | 489.5  | 488.6  | 487.1  | 486.3  |
| 35°   | 517.1  | 514.1  | 511.6  | 510.2  | 507.9  | 506.8  | 505.8  | 507.0  |
| 37.5° | 543.6  | 540.0  | 538.7  | 537.1  | 535.6  | 533.8  | 534.2  | 533.8  |
| 40°   | 580.3  | 577.1  | 575.8  | 572.9  | 572.5  | 570.5  | 571.8  | 570.5  |
| 42.5° | 625.7  | 619.7  | 618.8  | 616.5  | 615.8  | 614.6  | 615.1  | 614.2  |
| 45°   | 675.1  | 669.7  | 668.7  | 665.0  | 665.1  | 662.5  | 663.5  | 663.5  |
| 47.5° | 730.6  | 725.0  | 720.3  | 717.7  | 716.7  | 715.0  | 715.9  | 715.8  |
| 50°   | 787.9  | 780.3  | 775.1  | 770.0  | 767.7  | 768.3  | 766.6  | 769.6  |
| 52.5° | 849.5  | 838.0  | 830.8  | 825.9  | 821.6  | 822.5  | 822.7  | 823.6  |
| 55°   | 913.2  | 898.6  | 888.1  | 881.7  | 877.8  | 878.0  | 879.2  | 880.2  |
| 57.5° | 977.3  | 959.1  | 944.8  | 935.2  | 932.7  | 933.8  | 933.8  | 933.6  |
| 60°   | 1043.8 | 1021.9 | 1003.4 | 992.6  | 990.4  | 989.8  | 994.6  | 993.0  |
| 62.5° | 1115.2 | 1088.9 | 1069.8 | 1056.0 | 1052.7 | 1055.0 | 1059.4 | 1058.4 |
| 65°   | 1209.8 | 1173.4 | 1148.8 | 1135.2 | 1129.6 | 1131.9 | 1137.8 | 1137.5 |
| 67.5° | 1331.8 | 1281.0 | 1248.5 | 1230.9 | 1226.9 | 1229.6 | 1232.9 | 1236.0 |
| 70°   | 1514.3 | 1441.8 | 1395.3 | 1357.2 | 1340.8 | 1337.7 | 1341.0 | 1341.1 |
| 71°   | 1578.5 | 1495.2 | 1421.2 | 1374.6 | 1347.9 | 1336.6 | 1337.5 | 1331.8 |
| 72.5° | 1575.8 | 1473.2 | 1386.6 | 1338.0 | 1300.8 | 1291.7 | 1287.3 | 1280.5 |
| 75°   | 1469.7 | 1377.1 | 1302.0 | 1249.0 | 1213.2 | 1202.5 | 1194.7 | 1194.4 |
| 77.5° | 1332.8 | 1264.6 | 1181.8 | 1125.6 | 1082.0 | 1064.2 | 1056.4 | 1056.1 |
| 80°   | 1071.4 | 969.2  | 908.7  | 874.9  | 822.2  | 807.0  | 791.0  | 784.9  |
| 82.5° | 648.0  | 506.3  | 411.7  | 365.8  | 340.4  | 280.4  | 251.6  | 238.0  |
| 85°   | 150.9  | 107.2  | 73.9   | 48.5   | 34.9   | 27.8   | 21.4   | 18.8   |
| 87.5° | 10.2   | 8.0    | 7.2    | 5.8    | 4.4    | 4.2    | 2.6    | 2.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)