

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: P147184

Luminaire Tested: **VXS-F03-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147184  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-F03-LED-E1-5MQ-7030  
Description: VISION SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (21) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7292.1 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 78.3  
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

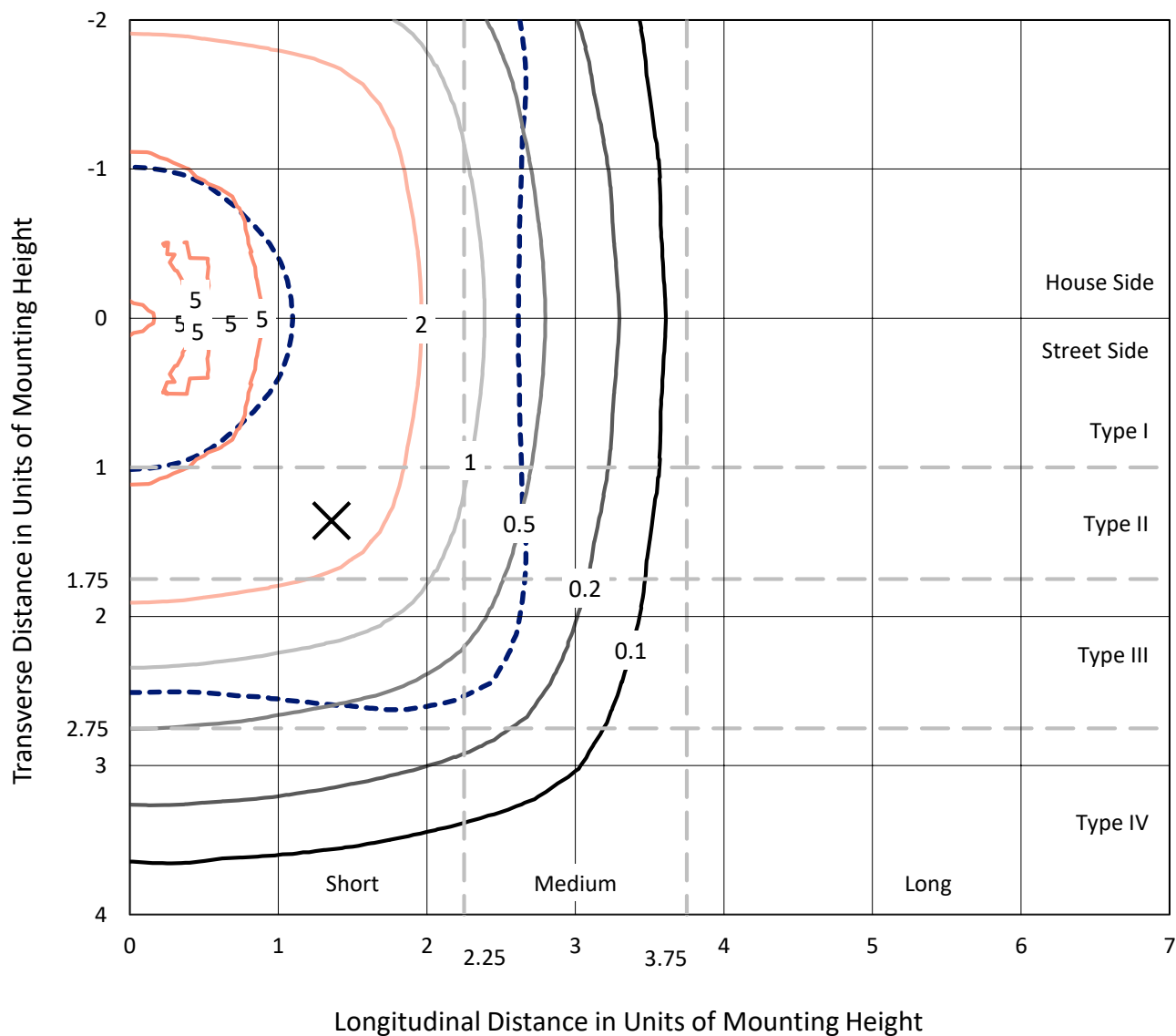


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

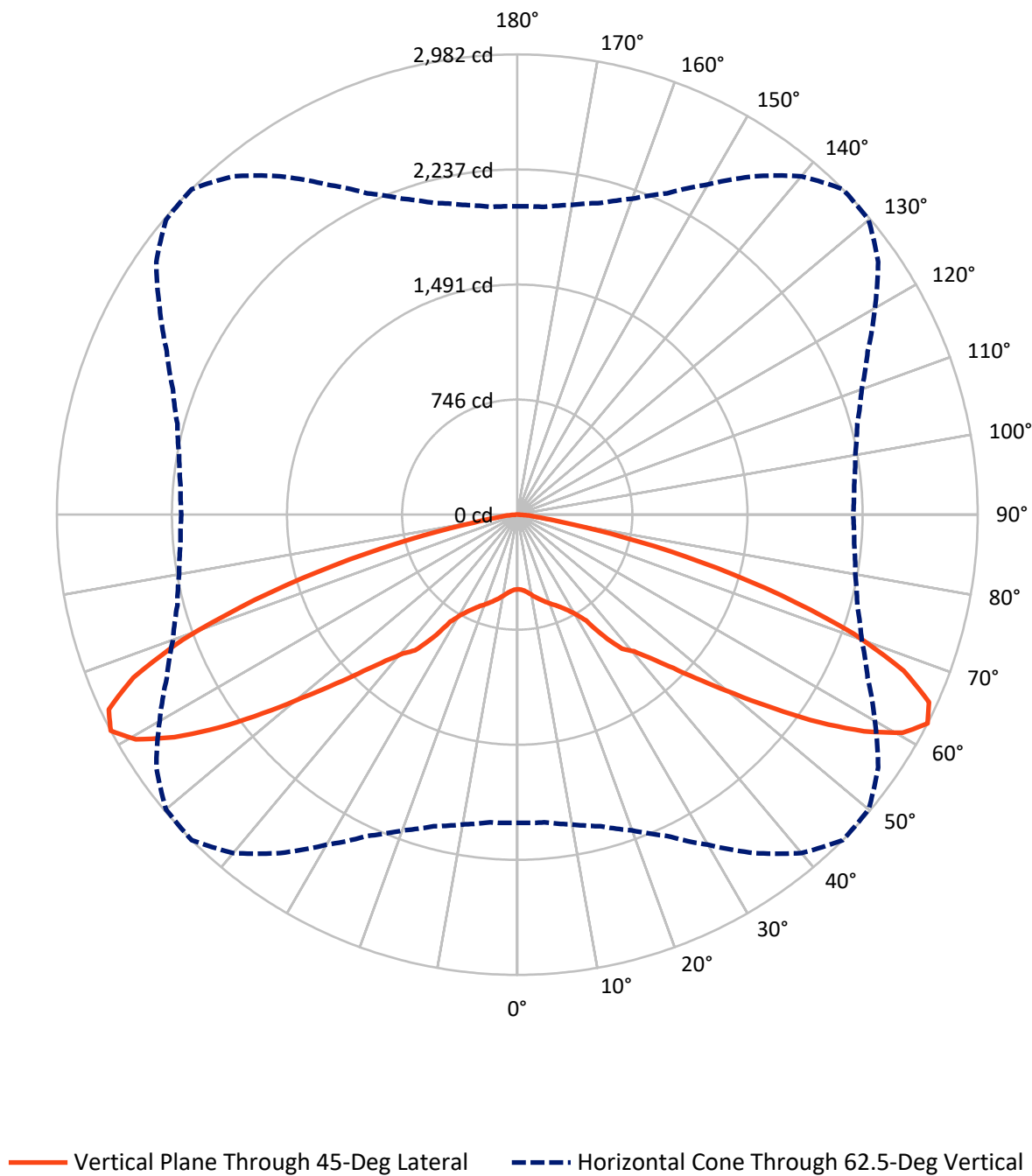


Based on 10 foot mounting height. Maximum calculated value = 5.5 fc  
 Type V - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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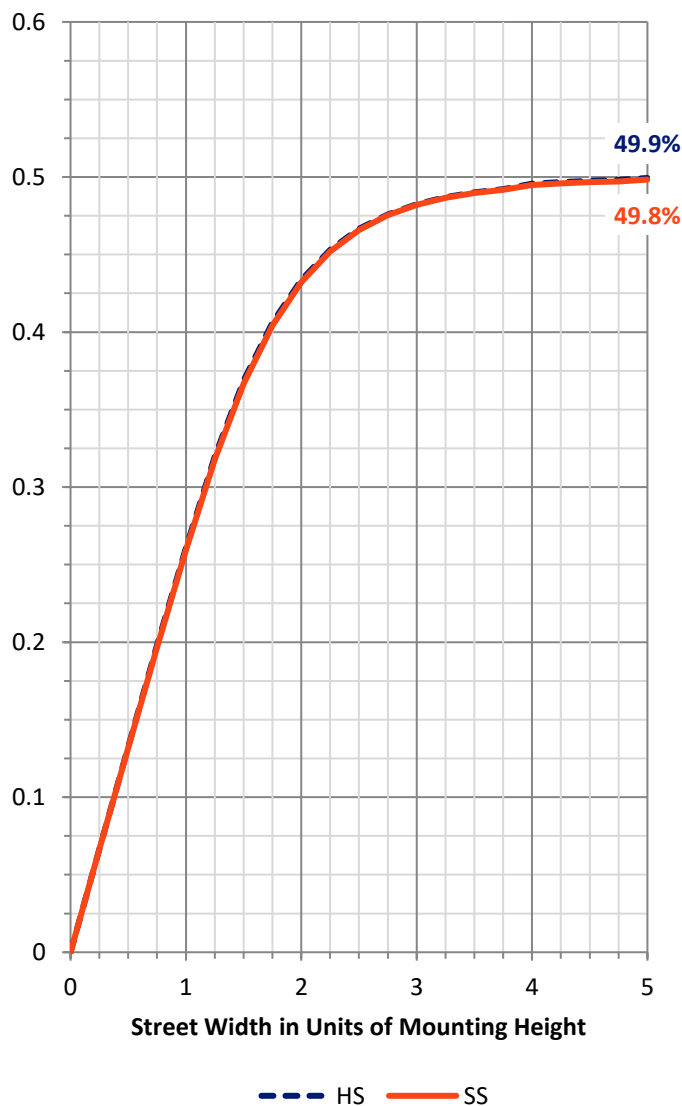
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 3646.1   | 0.0    | 3646.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 3646.1   | 0.0    | 3646.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 7292.1   | 0.0    | 7292.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.5   | 0.7       |
| 10°-20°   | 164.0  | 2.2       |
| 20°-30°   | 317.1  | 4.3       |
| 30°-40°   | 613.9  | 8.4       |
| 40°-50°   | 1108.4 | 15.2      |
| 50°-60°   | 1927.4 | 26.4      |
| 60°-70°   | 2188.1 | 30.0      |
| 70°-80°   | 848.3  | 11.6      |
| 80°-90°   | 76.5   | 1.0       |
| 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°    | 7292.1 | 100.0     |
| 0°-180°   | 7292.1 | 100.0     |

**Coefficient of Utilization**



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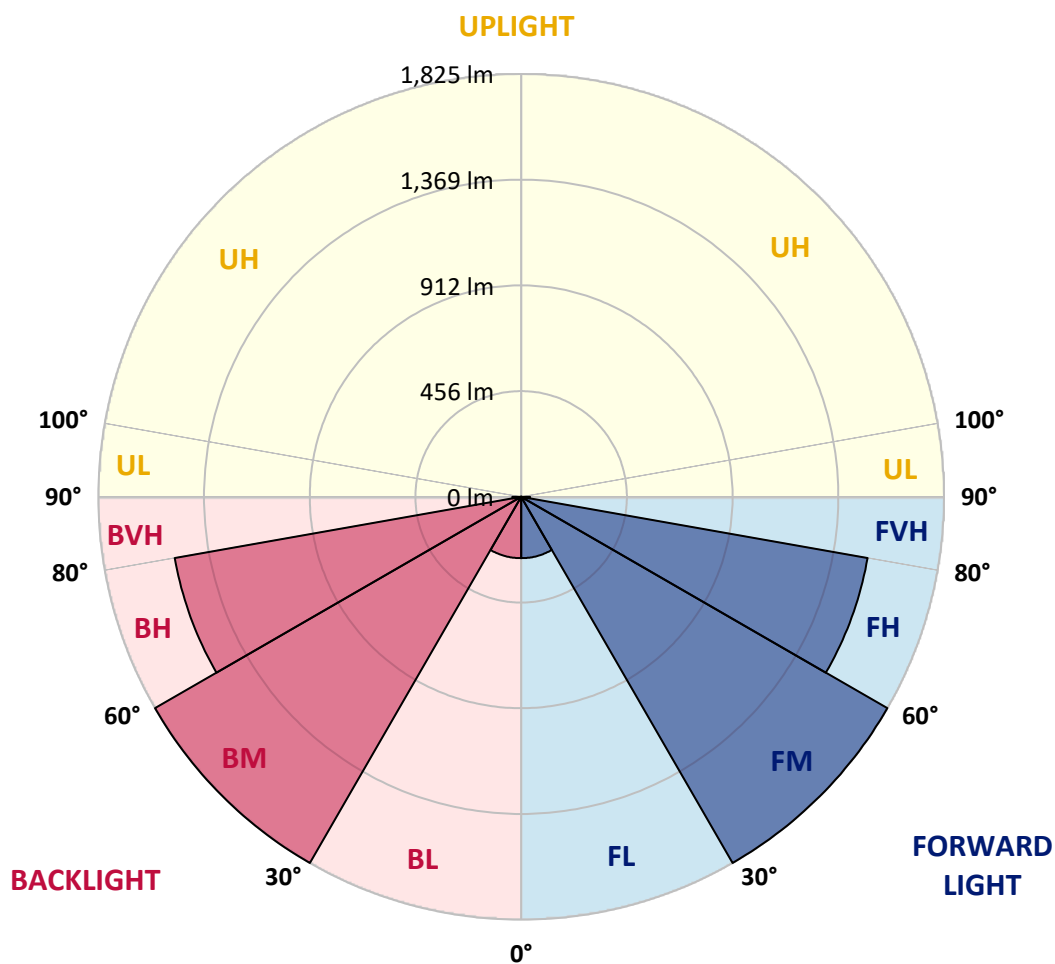
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 264.8  | 3.6       |                         |      |         |
| FM   | (30°-60°)   | 1824.8 | 25.0      |                         |      |         |
| FH   | (60°-80°)   | 1518.2 | 20.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 38.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 264.8  | 3.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1824.8 | 25.0      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1518.2 | 20.8      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 38.3   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  |
| 2.5°  | 487.0  | 488.6  | 488.3  | 487.5  | 487.5  | 487.5  | 487.0  | 486.0  | 485.6  | 486.3  | 487.0  |
| 5°    | 498.4  | 498.4  | 498.4  | 498.4  | 497.6  | 497.6  | 496.9  | 496.2  | 496.6  | 495.8  | 495.3  |
| 7.5°  | 515.6  | 514.6  | 514.6  | 514.2  | 514.2  | 513.5  | 512.3  | 510.9  | 511.2  | 510.9  | 510.5  |
| 10°   | 536.2  | 536.5  | 535.3  | 536.5  | 534.6  | 534.2  | 532.6  | 531.9  | 531.6  | 530.5  | 530.4  |
| 12.5° | 560.6  | 559.4  | 559.4  | 558.8  | 557.9  | 557.2  | 554.9  | 554.6  | 553.1  | 552.3  | 551.2  |
| 15°   | 583.6  | 583.2  | 581.8  | 580.2  | 579.9  | 579.1  | 576.4  | 574.9  | 574.5  | 572.6  | 571.2  |
| 17.5° | 606.5  | 605.8  | 603.9  | 603.2  | 601.7  | 600.6  | 598.2  | 596.1  | 594.8  | 594.2  | 592.3  |
| 20°   | 631.1  | 630.4  | 628.4  | 626.9  | 625.1  | 623.6  | 620.1  | 618.3  | 617.2  | 616.0  | 614.5  |
| 22.5° | 661.6  | 660.1  | 657.1  | 654.5  | 650.4  | 648.8  | 644.4  | 641.7  | 639.8  | 638.3  | 637.5  |
| 25°   | 694.8  | 695.1  | 691.0  | 687.7  | 682.7  | 678.5  | 673.0  | 669.8  | 668.1  | 666.5  | 666.1  |
| 27.5° | 736.3  | 736.7  | 732.8  | 728.0  | 720.4  | 715.9  | 708.4  | 704.7  | 703.5  | 702.0  | 701.6  |
| 30°   | 801.9  | 798.5  | 792.1  | 784.2  | 777.4  | 767.6  | 756.7  | 752.8  | 749.0  | 748.0  | 748.0  |
| 32.5° | 922.5  | 920.6  | 915.3  | 895.8  | 886.6  | 866.3  | 847.0  | 836.2  | 823.7  | 817.7  | 813.9  |
| 35°   | 1007.0 | 1006.2 | 1002.1 | 995.2  | 989.6  | 985.5  | 974.2  | 972.2  | 970.1  | 969.9  | 973.1  |
| 37.5° | 1069.2 | 1064.7 | 1063.8 | 1065.0 | 1063.4 | 1064.2 | 1073.4 | 1085.8 | 1096.3 | 1101.6 | 1100.8 |
| 40°   | 1161.1 | 1154.7 | 1158.5 | 1155.9 | 1152.5 | 1151.7 | 1154.8 | 1159.6 | 1164.6 | 1164.6 | 1163.4 |
| 42.5° | 1281.5 | 1284.5 | 1285.9 | 1275.0 | 1267.8 | 1265.9 | 1273.2 | 1271.6 | 1276.5 | 1274.6 | 1269.7 |
| 45°   | 1460.1 | 1458.2 | 1455.5 | 1442.4 | 1431.1 | 1422.0 | 1423.9 | 1421.2 | 1421.7 | 1418.7 | 1414.9 |
| 47.5° | 1640.3 | 1646.7 | 1635.9 | 1629.4 | 1616.6 | 1610.2 | 1615.4 | 1611.0 | 1619.6 | 1603.7 | 1596.2 |
| 50°   | 1815.3 | 1819.7 | 1816.0 | 1806.9 | 1806.9 | 1816.0 | 1822.4 | 1830.7 | 1842.7 | 1824.7 | 1797.5 |
| 52.5° | 1958.5 | 1962.3 | 1967.9 | 1975.5 | 1994.0 | 2013.2 | 2040.3 | 2069.3 | 2092.3 | 2088.9 | 2058.0 |
| 55°   | 2046.0 | 2050.5 | 2059.9 | 2085.9 | 2119.2 | 2169.6 | 2231.1 | 2298.5 | 2351.3 | 2377.0 | 2354.4 |
| 57.5° | 2075.3 | 2078.8 | 2104.4 | 2135.6 | 2187.4 | 2262.4 | 2365.3 | 2481.8 | 2583.2 | 2647.7 | 2637.5 |
| 60°   | 2068.6 | 2068.6 | 2094.6 | 2137.6 | 2209.9 | 2309.4 | 2455.0 | 2616.4 | 2771.7 | 2868.2 | 2853.9 |
| 62.5° | 1997.3 | 2001.0 | 2038.3 | 2090.1 | 2177.5 | 2296.6 | 2470.1 | 2676.3 | 2862.2 | 2982.0 | 2970.4 |
| 65°   | 1841.2 | 1843.9 | 1884.2 | 1945.7 | 2043.3 | 2184.2 | 2374.0 | 2602.4 | 2815.3 | 2930.8 | 2908.9 |
| 67.5° | 1589.0 | 1591.7 | 1624.5 | 1693.9 | 1797.1 | 1944.6 | 2149.2 | 2400.7 | 2609.1 | 2700.4 | 2634.8 |
| 70°   | 1264.0 | 1271.6 | 1292.6 | 1366.2 | 1444.7 | 1589.0 | 1777.6 | 2029.0 | 2225.7 | 2312.1 | 2239.8 |
| 72.5° | 861.5  | 880.6  | 906.3  | 971.5  | 1046.5 | 1166.4 | 1316.5 | 1528.3 | 1686.3 | 1786.2 | 1721.8 |
| 75°   | 485.2  | 512.3  | 520.3  | 569.6  | 631.5  | 726.0  | 835.9  | 987.8  | 1147.3 | 1228.2 | 1150.7 |
| 77.5° | 209.6  | 231.9  | 241.7  | 264.7  | 313.0  | 352.5  | 419.3  | 521.8  | 645.0  | 702.0  | 608.8  |
| 80°   | 103.2  | 108.6  | 112.7  | 119.9  | 133.5  | 146.3  | 178.0  | 222.8  | 273.4  | 286.1  | 227.8  |
| 82.5° | 80.0   | 83.7   | 90.9   | 96.6   | 99.9   | 103.2  | 106.3  | 112.3  | 117.3  | 119.9  | 113.2  |
| 85°   | 56.2   | 61.0   | 69.0   | 75.4   | 79.2   | 81.9   | 84.5   | 86.3   | 81.8   | 74.6   | 78.4   |
| 87.5° | 14.7   | 19.3   | 26.7   | 29.0   | 32.7   | 34.6   | 34.0   | 35.0   | 31.7   | 23.0   | 25.6   |
| 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°    | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  | 484.0  |
| 2.5°  | 486.7  | 486.3  | 486.7  | 486.6  | 486.7  | 486.3  | 486.3  | 486.3  |
| 5°    | 495.3  | 495.3  | 495.8  | 495.0  | 494.9  | 495.3  | 494.9  | 494.6  |
| 7.5°  | 510.1  | 509.6  | 509.6  | 509.3  | 509.6  | 509.3  | 509.3  | 508.9  |
| 10°   | 529.7  | 528.9  | 529.3  | 528.2  | 528.2  | 527.8  | 527.8  | 527.8  |
| 12.5° | 550.9  | 549.6  | 550.1  | 548.9  | 546.9  | 547.4  | 547.8  | 547.4  |
| 15°   | 571.2  | 569.9  | 568.9  | 568.1  | 567.0  | 567.4  | 567.4  | 567.0  |
| 17.5° | 591.9  | 589.6  | 589.2  | 588.1  | 587.8  | 587.8  | 587.8  | 588.1  |
| 20°   | 613.4  | 611.8  | 611.5  | 610.4  | 610.1  | 611.2  | 611.5  | 610.8  |
| 22.5° | 636.4  | 635.6  | 636.4  | 635.6  | 636.7  | 637.5  | 637.9  | 637.1  |
| 25°   | 665.4  | 664.7  | 665.8  | 668.4  | 669.9  | 670.7  | 672.5  | 671.8  |
| 27.5° | 702.8  | 702.0  | 704.7  | 708.4  | 710.7  | 714.4  | 716.3  | 717.1  |
| 30°   | 751.0  | 754.3  | 755.9  | 763.4  | 765.0  | 771.0  | 771.0  | 773.6  |
| 32.5° | 821.0  | 827.6  | 838.8  | 850.6  | 866.7  | 878.3  | 878.4  | 884.5  |
| 35°   | 974.9  | 977.6  | 986.2  | 988.1  | 991.5  | 995.2  | 991.5  | 994.5  |
| 37.5° | 1092.8 | 1081.2 | 1073.0 | 1061.2 | 1054.1 | 1054.1 | 1054.8 | 1054.1 |
| 40°   | 1153.3 | 1148.7 | 1145.0 | 1135.1 | 1133.6 | 1133.3 | 1133.3 | 1134.7 |
| 42.5° | 1261.0 | 1250.2 | 1244.1 | 1235.8 | 1233.2 | 1232.4 | 1232.0 | 1232.7 |
| 45°   | 1401.2 | 1383.6 | 1367.4 | 1359.1 | 1351.9 | 1345.1 | 1347.4 | 1347.4 |
| 47.5° | 1564.6 | 1537.0 | 1510.7 | 1496.3 | 1483.8 | 1478.1 | 1474.4 | 1473.3 |
| 50°   | 1763.2 | 1724.8 | 1690.8 | 1664.0 | 1646.0 | 1645.6 | 1647.5 | 1635.4 |
| 52.5° | 2006.7 | 1946.1 | 1903.8 | 1867.7 | 1850.7 | 1848.8 | 1842.7 | 1836.0 |
| 55°   | 2276.7 | 2204.8 | 2134.9 | 2096.2 | 2073.9 | 2061.8 | 2054.6 | 2043.3 |
| 57.5° | 2554.8 | 2458.0 | 2357.7 | 2295.5 | 2256.4 | 2229.2 | 2214.9 | 2208.5 |
| 60°   | 2769.4 | 2637.1 | 2504.8 | 2404.9 | 2339.7 | 2299.4 | 2274.5 | 2264.2 |
| 62.5° | 2853.9 | 2674.4 | 2504.8 | 2373.6 | 2279.4 | 2223.5 | 2189.9 | 2175.2 |
| 65°   | 2753.2 | 2540.5 | 2347.6 | 2202.8 | 2097.6 | 2035.4 | 1998.8 | 1983.0 |
| 67.5° | 2471.9 | 2284.1 | 2074.2 | 1930.2 | 1822.0 | 1760.6 | 1721.0 | 1709.3 |
| 70°   | 2072.3 | 1880.4 | 1679.9 | 1551.3 | 1454.8 | 1404.7 | 1363.5 | 1358.7 |
| 72.5° | 1557.3 | 1391.9 | 1219.9 | 1113.6 | 1036.0 | 953.1  | 931.9  | 942.5  |
| 75°   | 998.3  | 843.3  | 690.3  | 594.5  | 523.6  | 444.5  | 413.9  | 421.5  |
| 77.5° | 472.7  | 366.0  | 264.2  | 204.4  | 171.6  | 146.7  | 140.3  | 136.5  |
| 80°   | 175.3  | 142.2  | 125.6  | 119.2  | 114.6  | 110.5  | 107.4  | 104.0  |
| 82.5° | 113.5  | 110.9  | 107.5  | 106.3  | 103.0  | 97.6   | 87.9   | 83.7   |
| 85°   | 84.9   | 84.9   | 80.3   | 80.6   | 78.0   | 71.3   | 62.2   | 57.3   |
| 87.5° | 24.9   | 22.3   | 20.3   | 18.9   | 18.4   | 16.6   | 12.0   | 10.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)