

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: P148166

Luminaire Tested: **VXM-F03-LED-E1-5XQ-7050**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148166  
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-F03-LED-E1-5XQ-7050  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (21) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8082.1 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G3

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



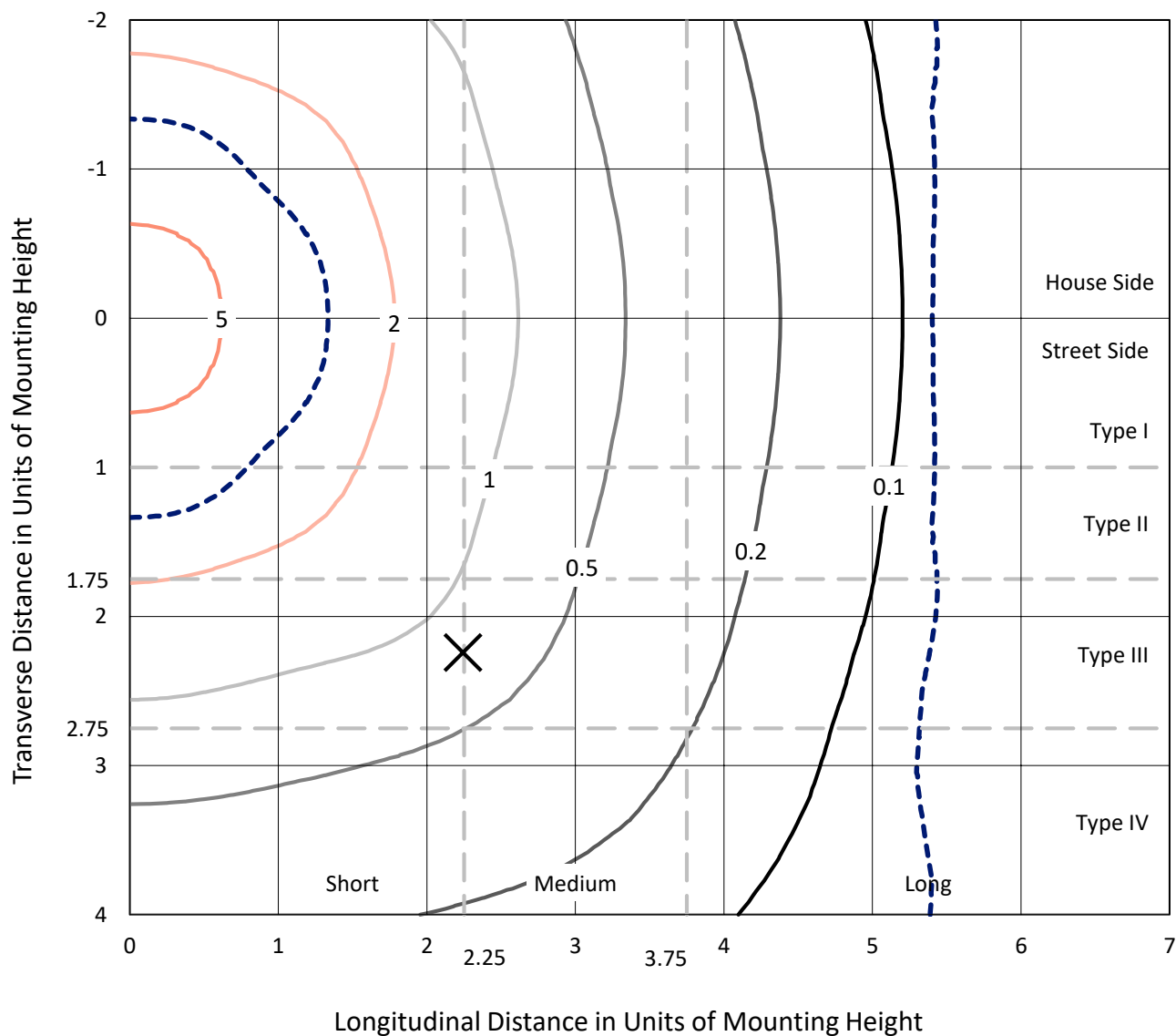
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

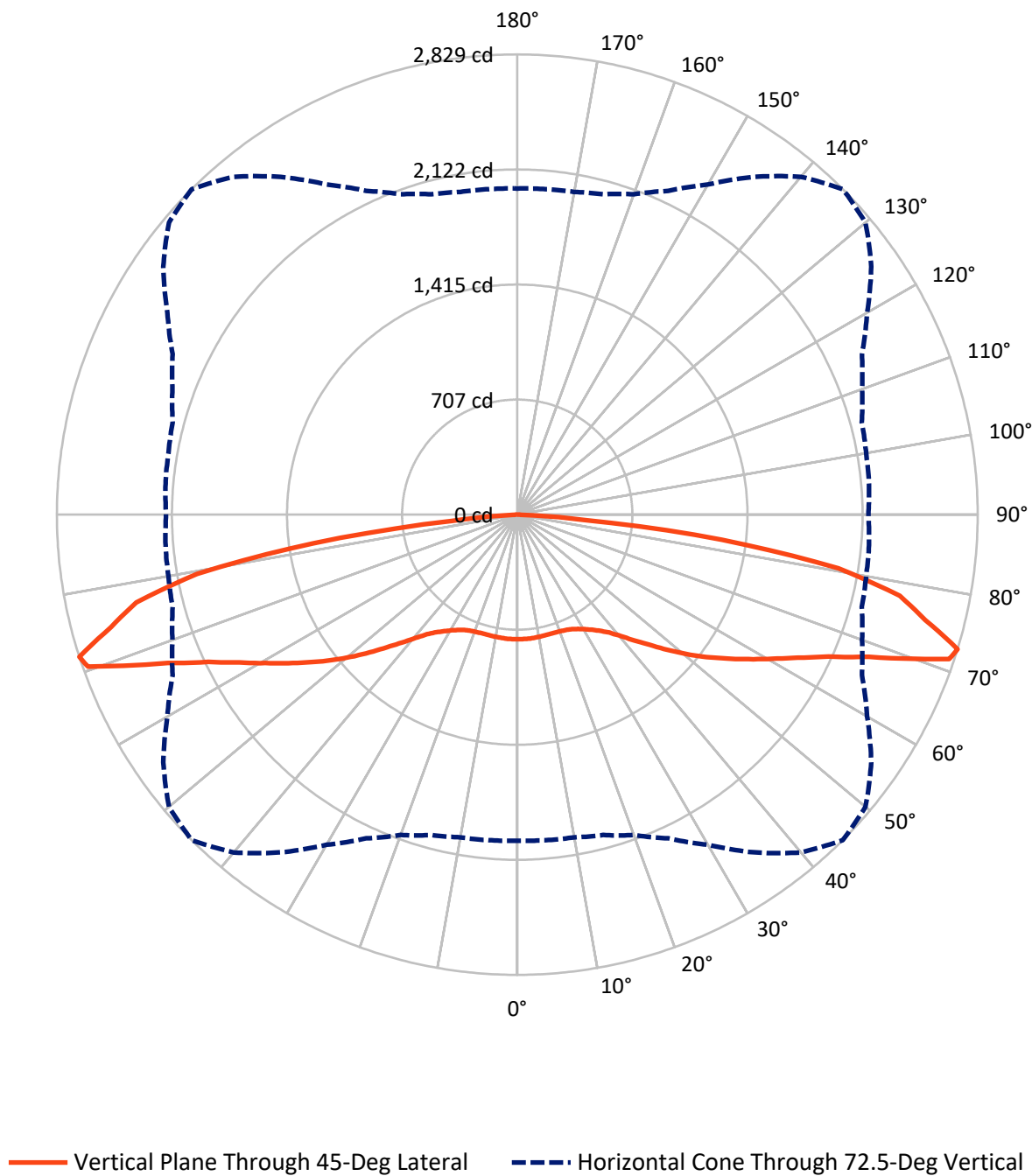


Based on 10 foot mounting height. Maximum calculated value = 7.7 fc  
 Type V - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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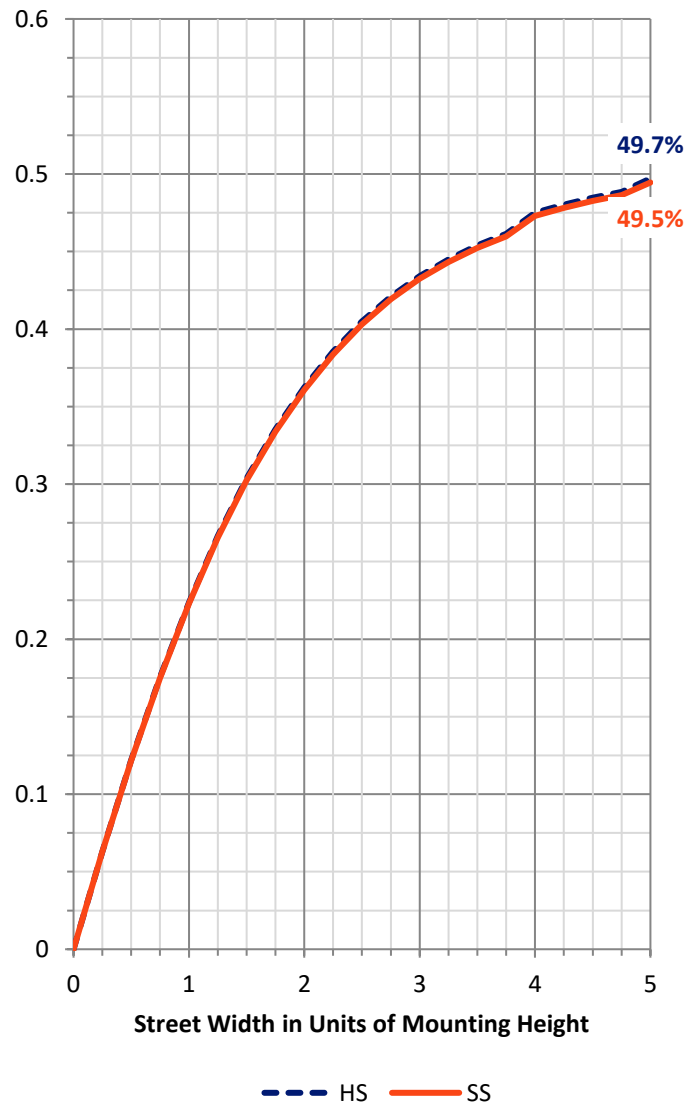
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4041.0   | 0.0    | 4041.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4041.0   | 0.0    | 4041.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8082.1   | 0.0    | 8082.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 73.0   | 0.9       |
| 10°-20°   | 215.9  | 2.7       |
| 20°-30°   | 361.5  | 4.5       |
| 30°-40°   | 551.1  | 6.8       |
| 40°-50°   | 880.0  | 10.9      |
| 50°-60°   | 1353.1 | 16.7      |
| 60°-70°   | 1970.1 | 24.4      |
| 70°-80°   | 2219.3 | 27.5      |
| 80°-90°   | 458.1  | 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°    | 8082.1 | 100.0     |
| 0°-180°   | 8082.1 | 100.0     |

**Coefficient of Utilization**



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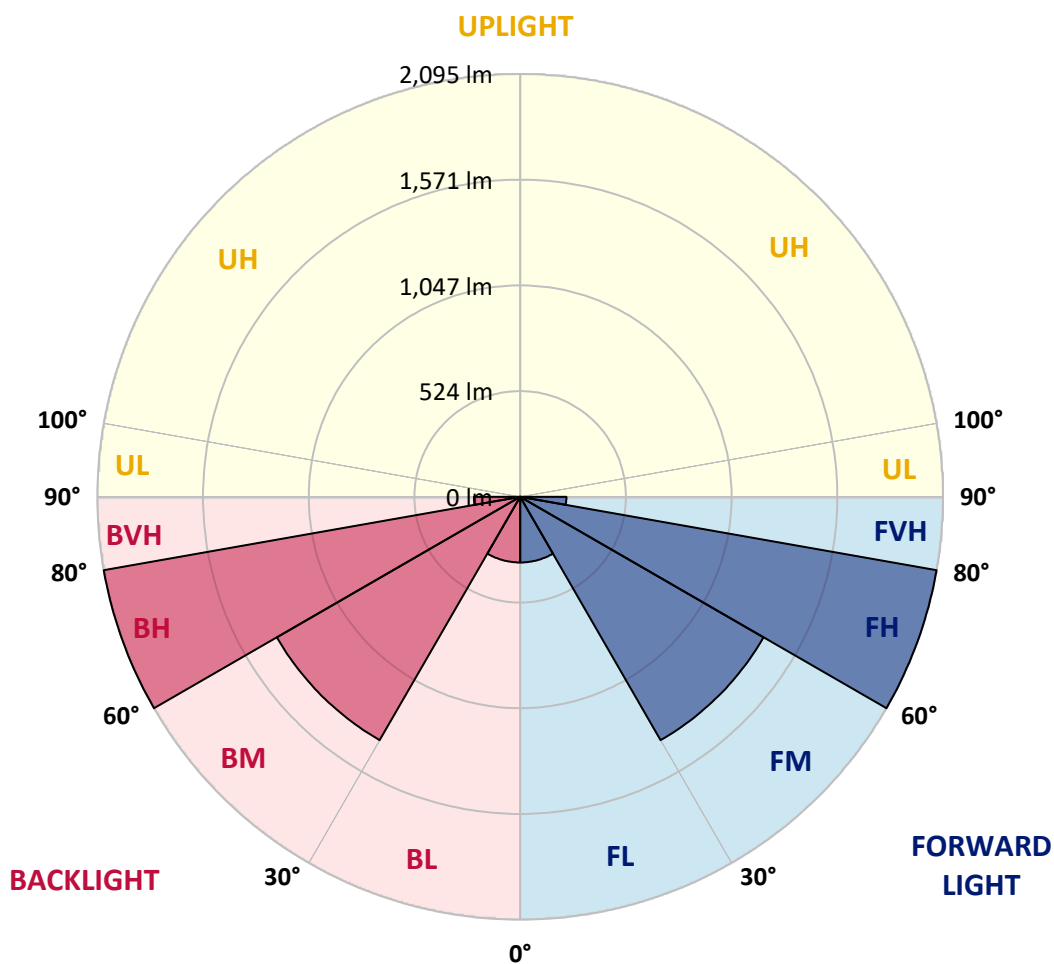
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 325.2  | 4.0       |                         |      |         |
| FM   | (30°-60°)   | 1392.1 | 17.2      |                         |      |         |
| FH   | (60°-80°)   | 2094.7 | 25.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 229.1  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 325.2  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1392.1 | 17.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2094.7 | 25.9      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 229.1  | 2.8       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  |
| 2.5°  | 767.0  | 767.4  | 767.2  | 766.8  | 767.0  | 766.8  | 766.4  | 766.2  | 764.7  | 765.6  | 766.8  |
| 5°    | 767.0  | 766.6  | 766.4  | 766.2  | 766.2  | 766.8  | 766.2  | 765.6  | 765.3  | 765.8  | 765.1  |
| 7.5°  | 766.6  | 765.8  | 765.3  | 765.1  | 765.3  | 765.6  | 764.9  | 764.0  | 764.7  | 764.0  | 763.2  |
| 10°   | 765.3  | 764.7  | 764.9  | 764.0  | 764.3  | 764.0  | 763.2  | 762.6  | 763.0  | 762.4  | 761.3  |
| 12.5° | 765.8  | 764.7  | 764.5  | 764.0  | 763.8  | 763.6  | 762.6  | 761.5  | 761.8  | 761.3  | 760.3  |
| 15°   | 765.8  | 765.1  | 764.9  | 764.0  | 763.8  | 763.4  | 762.2  | 761.7  | 761.8  | 761.1  | 759.8  |
| 17.5° | 766.2  | 765.8  | 765.8  | 764.7  | 764.3  | 764.0  | 762.6  | 762.0  | 762.6  | 761.3  | 760.5  |
| 20°   | 767.4  | 767.0  | 767.2  | 766.6  | 765.8  | 765.8  | 764.7  | 764.2  | 764.5  | 764.2  | 762.0  |
| 22.5° | 770.0  | 770.0  | 770.4  | 770.2  | 770.0  | 770.2  | 769.4  | 769.4  | 769.6  | 769.6  | 767.6  |
| 25°   | 777.2  | 777.0  | 777.4  | 777.4  | 777.6  | 779.1  | 778.4  | 778.2  | 779.3  | 779.3  | 777.4  |
| 27.5° | 790.8  | 790.3  | 790.8  | 791.2  | 792.2  | 794.1  | 793.7  | 794.3  | 796.0  | 795.6  | 793.9  |
| 30°   | 806.4  | 806.0  | 807.0  | 808.3  | 809.2  | 812.2  | 810.8  | 814.0  | 815.6  | 816.8  | 815.6  |
| 32.5° | 829.3  | 829.3  | 831.2  | 832.0  | 834.0  | 836.9  | 837.3  | 839.8  | 841.8  | 843.9  | 842.4  |
| 35°   | 859.8  | 859.4  | 860.9  | 862.3  | 864.6  | 867.4  | 868.5  | 871.8  | 874.8  | 876.3  | 873.6  |
| 37.5° | 906.4  | 904.0  | 906.8  | 907.6  | 909.6  | 910.2  | 913.2  | 917.4  | 920.6  | 920.1  | 918.2  |
| 40°   | 969.5  | 969.0  | 968.0  | 966.7  | 969.7  | 970.8  | 970.8  | 976.5  | 981.5  | 980.7  | 980.5  |
| 42.5° | 1043.2 | 1041.3 | 1040.0 | 1040.0 | 1041.7 | 1042.1 | 1048.7 | 1052.9 | 1056.6 | 1057.4 | 1056.5 |
| 45°   | 1122.4 | 1120.4 | 1120.9 | 1120.0 | 1120.7 | 1123.4 | 1127.2 | 1135.1 | 1141.8 | 1142.1 | 1138.4 |
| 47.5° | 1207.5 | 1201.6 | 1206.2 | 1199.7 | 1203.7 | 1205.8 | 1215.4 | 1226.8 | 1238.6 | 1240.8 | 1237.6 |
| 50°   | 1293.9 | 1293.3 | 1292.8 | 1291.6 | 1293.5 | 1298.2 | 1309.8 | 1327.8 | 1339.2 | 1346.9 | 1341.8 |
| 52.5° | 1388.4 | 1385.2 | 1383.7 | 1381.6 | 1383.5 | 1392.6 | 1408.9 | 1424.6 | 1445.1 | 1453.8 | 1446.8 |
| 55°   | 1480.3 | 1479.2 | 1473.7 | 1473.5 | 1477.5 | 1491.7 | 1509.5 | 1528.8 | 1551.0 | 1560.7 | 1558.2 |
| 57.5° | 1574.8 | 1568.6 | 1566.9 | 1564.4 | 1572.4 | 1585.7 | 1607.6 | 1642.3 | 1665.4 | 1676.4 | 1670.0 |
| 60°   | 1667.0 | 1662.4 | 1658.8 | 1658.0 | 1663.4 | 1682.1 | 1713.4 | 1755.2 | 1783.7 | 1798.1 | 1788.0 |
| 62.5° | 1766.2 | 1763.2 | 1759.0 | 1754.1 | 1765.7 | 1789.7 | 1828.6 | 1874.8 | 1917.0 | 1934.7 | 1919.2 |
| 65°   | 1889.4 | 1883.3 | 1878.6 | 1872.4 | 1882.0 | 1912.0 | 1961.0 | 2026.0 | 2082.6 | 2103.3 | 2092.3 |
| 67.5° | 2019.4 | 2013.7 | 2014.1 | 2010.3 | 2027.2 | 2069.0 | 2132.1 | 2220.4 | 2296.2 | 2331.6 | 2310.8 |
| 70°   | 2133.0 | 2136.1 | 2137.0 | 2152.4 | 2181.6 | 2245.2 | 2350.2 | 2488.5 | 2603.5 | 2657.5 | 2635.2 |
| 71°   | 2099.5 | 2106.4 | 2117.2 | 2133.4 | 2183.8 | 2258.9 | 2402.3 | 2569.8 | 2707.0 | 2798.5 | 2767.8 |
| 72.5° | 2004.6 | 2008.8 | 2014.3 | 2038.9 | 2095.9 | 2195.4 | 2343.0 | 2534.4 | 2710.9 | 2829.2 | 2793.6 |
| 75°   | 1867.4 | 1871.4 | 1873.3 | 1890.5 | 1942.4 | 2029.2 | 2164.3 | 2334.1 | 2489.8 | 2590.6 | 2580.6 |
| 77.5° | 1660.3 | 1660.9 | 1675.7 | 1702.2 | 1760.4 | 1859.8 | 2002.1 | 2178.2 | 2324.6 | 2402.9 | 2353.2 |
| 80°   | 1192.3 | 1184.2 | 1199.4 | 1233.6 | 1305.6 | 1419.5 | 1565.2 | 1766.4 | 1928.8 | 2002.0 | 1925.0 |
| 82.5° | 453.6  | 478.2  | 517.0  | 573.2  | 597.6  | 724.2  | 860.2  | 978.4  | 1115.2 | 1268.1 | 1229.8 |
| 85°   | 48.7   | 54.8   | 68.8   | 85.3   | 107.8  | 149.1  | 206.1  | 281.2  | 346.7  | 407.5  | 361.7  |
| 87.5° | 18.2   | 18.6   | 20.8   | 23.9   | 24.4   | 25.4   | 27.1   | 31.6   | 29.4   | 25.4   | 20.6   |
| 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°    | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  | 765.8  |
| 2.5°  | 765.8  | 766.0  | 765.8  | 766.0  | 765.9  | 765.1  | 765.3  | 764.9  |
| 5°    | 765.6  | 764.9  | 765.2  | 765.3  | 765.2  | 765.6  | 764.9  | 765.3  |
| 7.5°  | 764.5  | 763.2  | 763.7  | 763.6  | 763.2  | 763.8  | 763.4  | 763.2  |
| 10°   | 762.4  | 760.7  | 761.5  | 761.1  | 760.9  | 761.1  | 761.1  | 761.1  |
| 12.5° | 760.5  | 759.4  | 759.6  | 759.4  | 759.2  | 759.8  | 759.6  | 759.8  |
| 15°   | 760.0  | 758.3  | 758.2  | 757.7  | 758.0  | 758.4  | 758.4  | 759.0  |
| 17.5° | 759.6  | 757.5  | 757.3  | 756.9  | 757.1  | 757.9  | 758.2  | 757.8  |
| 20°   | 760.9  | 759.2  | 758.8  | 758.3  | 758.2  | 759.2  | 759.0  | 759.0  |
| 22.5° | 766.8  | 764.7  | 764.5  | 762.8  | 762.2  | 762.8  | 762.4  | 762.4  |
| 25°   | 776.4  | 773.8  | 773.0  | 770.7  | 768.9  | 769.0  | 768.3  | 767.8  |
| 27.5° | 793.5  | 789.7  | 788.8  | 786.9  | 784.6  | 785.0  | 783.8  | 783.6  |
| 30°   | 813.4  | 810.0  | 807.0  | 804.3  | 801.5  | 800.5  | 799.0  | 798.8  |
| 32.5° | 839.4  | 835.6  | 832.0  | 828.6  | 824.8  | 823.4  | 820.8  | 819.6  |
| 35°   | 871.4  | 866.4  | 862.1  | 859.8  | 856.0  | 854.1  | 852.4  | 854.3  |
| 37.5° | 916.1  | 910.0  | 907.9  | 905.1  | 902.6  | 899.6  | 900.2  | 899.6  |
| 40°   | 978.0  | 972.4  | 970.3  | 965.5  | 964.8  | 961.4  | 963.6  | 961.4  |
| 42.5° | 1054.4 | 1044.2 | 1042.8 | 1038.9 | 1037.6 | 1035.8 | 1036.6 | 1035.1 |
| 45°   | 1137.6 | 1128.5 | 1126.8 | 1120.6 | 1120.9 | 1116.4 | 1118.1 | 1118.1 |
| 47.5° | 1231.2 | 1221.7 | 1213.8 | 1209.4 | 1207.7 | 1204.9 | 1206.4 | 1206.2 |
| 50°   | 1327.8 | 1314.9 | 1306.2 | 1297.5 | 1293.7 | 1294.8 | 1291.8 | 1296.8 |
| 52.5° | 1431.6 | 1412.3 | 1400.0 | 1391.8 | 1384.6 | 1386.0 | 1386.4 | 1387.9 |
| 55°   | 1538.9 | 1514.4 | 1496.6 | 1485.8 | 1479.2 | 1479.6 | 1481.5 | 1483.2 |
| 57.5° | 1646.9 | 1616.2 | 1592.1 | 1576.0 | 1571.8 | 1573.6 | 1573.6 | 1573.4 |
| 60°   | 1759.0 | 1722.1 | 1691.0 | 1672.7 | 1669.0 | 1667.9 | 1676.2 | 1673.4 |
| 62.5° | 1879.2 | 1835.0 | 1802.8 | 1779.5 | 1774.0 | 1777.8 | 1785.2 | 1783.5 |
| 65°   | 2038.7 | 1977.5 | 1936.0 | 1912.9 | 1903.6 | 1907.4 | 1917.4 | 1917.0 |
| 67.5° | 2244.3 | 2158.8 | 2103.9 | 2074.3 | 2067.5 | 2072.1 | 2077.7 | 2083.0 |
| 70°   | 2551.8 | 2429.6 | 2351.2 | 2287.1 | 2259.6 | 2254.3 | 2259.8 | 2260.0 |
| 71°   | 2660.0 | 2519.6 | 2394.9 | 2316.6 | 2271.4 | 2252.4 | 2253.8 | 2244.4 |
| 72.5° | 2655.6 | 2482.6 | 2336.6 | 2254.7 | 2192.0 | 2176.8 | 2169.4 | 2157.9 |
| 75°   | 2476.6 | 2320.8 | 2194.1 | 2104.7 | 2044.4 | 2026.4 | 2013.3 | 2012.6 |
| 77.5° | 2246.0 | 2131.0 | 1991.5 | 1896.8 | 1823.3 | 1793.4 | 1780.1 | 1779.8 |
| 80°   | 1805.6 | 1633.4 | 1531.3 | 1474.3 | 1385.6 | 1360.0 | 1332.9 | 1322.7 |
| 82.5° | 1091.9 | 853.2  | 693.8  | 616.4  | 573.7  | 472.5  | 424.0  | 401.1  |
| 85°   | 254.3  | 180.6  | 124.5  | 81.8   | 58.8   | 46.8   | 36.0   | 31.8   |
| 87.5° | 17.2   | 13.5   | 12.1   | 9.7    | 7.4    | 7.2    | 4.4    | 3.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)