

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: P148737

Luminaire Tested: **VXS-F02-LED-E1-RW-7060**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148737  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-F02-LED-E1-RW-7060  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (14) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5292.4 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type I - Short - Full Cutoff  
BUG Rating: B2 - 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

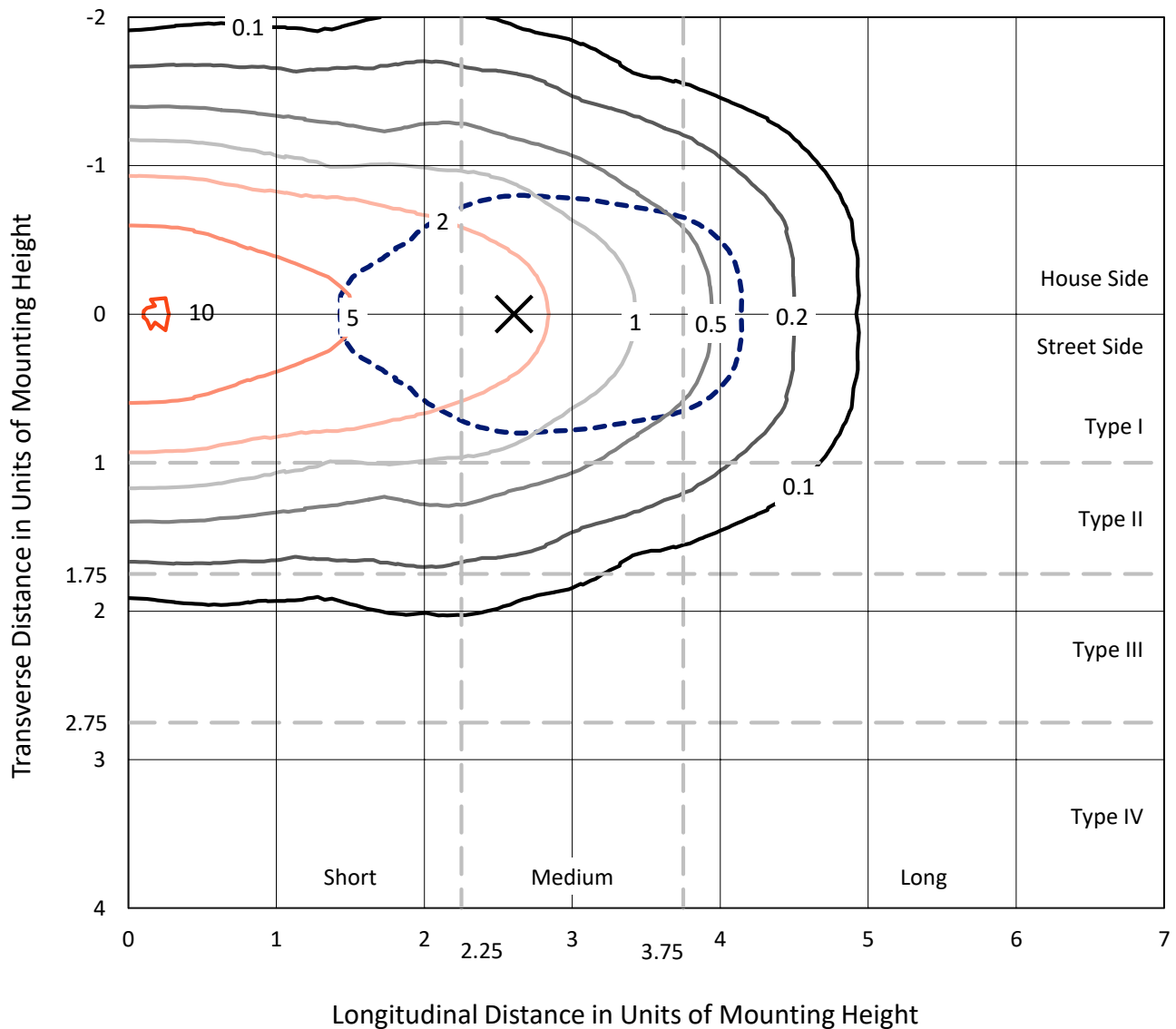


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

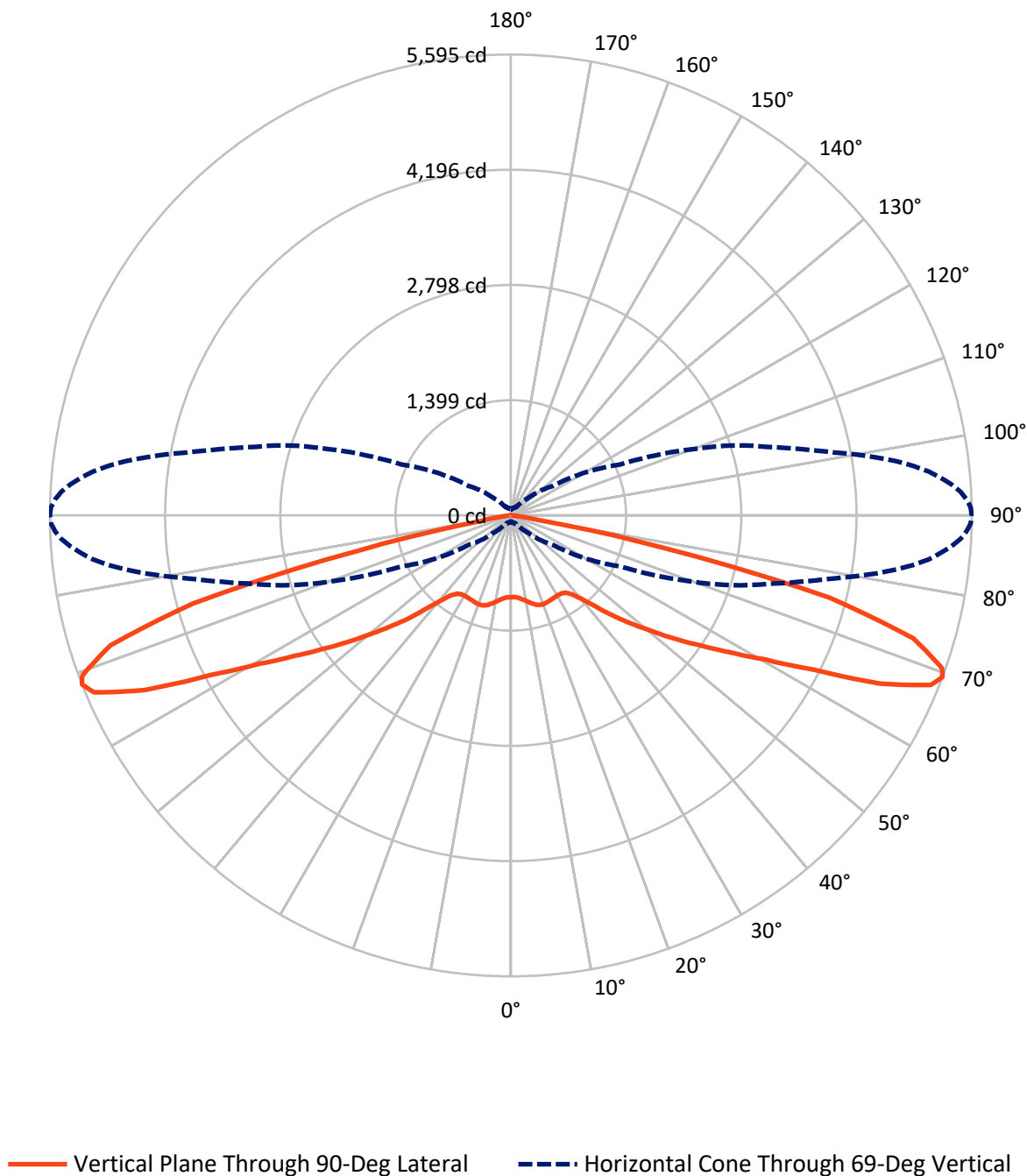


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc  
 Type I - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2646.2   | 0.0    | 2646.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2646.2   | 0.0    | 2646.2 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5292.4   | 0.0    | 5292.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 97.3   | 1.8       |
| 10°-20°   | 306.8  | 5.8       |
| 20°-30°   | 497.1  | 9.4       |
| 30°-40°   | 619.5  | 11.7      |
| 40°-50°   | 774.2  | 14.6      |
| 50°-60°   | 956.0  | 18.1      |
| 60°-70°   | 1187.8 | 22.4      |
| 70°-80°   | 788.6  | 14.9      |
| 80°-90°   | 65.1   | 1.2       |
| 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°    | 5292.4 | 100.0     |
| 0°-180°   | 5292.4 | 100.0     |

**Coefficient of Utilization**



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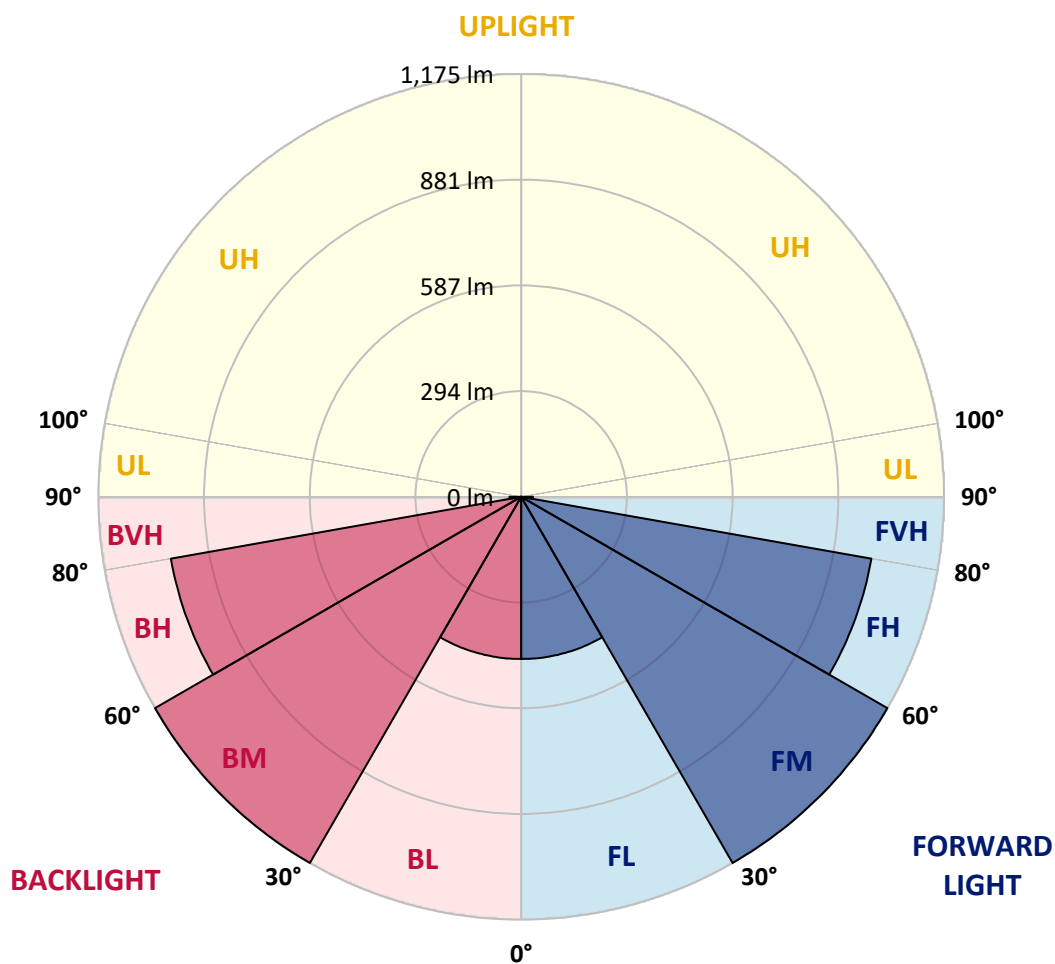
CATALOG NUMBER: VXS-F02-LED-E1-RW-7060

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 450.6  | 8.5       |                         |      |         |
| FM   | (30°-60°)   | 1174.8 | 22.2      |                         |      |         |
| FH   | (60°-80°)   | 988.2  | 18.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 32.6   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 450.6  | 8.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1174.8 | 22.2      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 988.2  | 18.7      | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 32.6   | 0.6       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 66°    | 67°    | 68°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  |
| 2.5°  | 996.2  | 997.0  | 996.4  | 997.6  | 997.3  | 997.3  | 996.6  | 995.6  | 995.5  | 995.3  | 995.2  |
| 5°    | 1005.8 | 1004.6 | 1006.3 | 1008.0 | 1007.4 | 1007.7 | 1007.4 | 1007.4 | 1007.3 | 1007.2 | 1007.1 |
| 7.5°  | 1016.0 | 1015.6 | 1016.8 | 1021.3 | 1021.9 | 1023.6 | 1025.6 | 1026.9 | 1027.0 | 1027.0 | 1027.1 |
| 10°   | 1024.7 | 1025.0 | 1027.8 | 1034.3 | 1037.7 | 1043.0 | 1048.4 | 1052.6 | 1053.0 | 1053.3 | 1053.6 |
| 12.5° | 1031.8 | 1032.0 | 1036.2 | 1046.4 | 1054.6 | 1064.8 | 1076.4 | 1082.8 | 1083.4 | 1084.0 | 1084.5 |
| 15°   | 1032.2 | 1033.1 | 1040.6 | 1057.2 | 1073.5 | 1090.2 | 1104.0 | 1112.8 | 1113.2 | 1113.7 | 1114.2 |
| 17.5° | 1025.0 | 1025.6 | 1038.0 | 1062.5 | 1089.9 | 1115.9 | 1130.4 | 1134.2 | 1134.4 | 1134.6 | 1134.8 |
| 20°   | 1005.8 | 1007.2 | 1024.6 | 1061.1 | 1102.8 | 1136.8 | 1151.8 | 1146.4 | 1145.9 | 1145.3 | 1144.8 |
| 22.5° | 974.6  | 974.4  | 997.3  | 1046.4 | 1105.4 | 1153.2 | 1166.4 | 1152.3 | 1150.6 | 1149.0 | 1147.3 |
| 25°   | 924.4  | 927.9  | 954.6  | 1013.4 | 1091.0 | 1156.8 | 1176.8 | 1155.4 | 1153.0 | 1150.6 | 1148.2 |
| 27.5° | 870.0  | 871.9  | 900.4  | 963.4  | 1057.4 | 1144.1 | 1181.9 | 1161.6 | 1158.9 | 1156.2 | 1153.6 |
| 30°   | 806.4  | 809.0  | 839.4  | 905.2  | 1003.5 | 1111.4 | 1180.6 | 1175.8 | 1172.6 | 1169.5 | 1166.3 |
| 32.5° | 744.3  | 747.2  | 774.5  | 846.6  | 946.8  | 1066.4 | 1172.1 | 1195.8 | 1192.6 | 1189.4 | 1186.2 |
| 35°   | 679.9  | 684.2  | 717.5  | 790.4  | 892.0  | 1016.5 | 1159.1 | 1221.4 | 1219.7 | 1217.9 | 1216.1 |
| 37.5° | 626.5  | 627.4  | 659.6  | 736.0  | 841.2  | 968.8  | 1141.8 | 1253.9 | 1255.2 | 1256.5 | 1257.8 |
| 40°   | 567.0  | 572.3  | 604.5  | 685.3  | 795.1  | 928.4  | 1125.5 | 1297.9 | 1304.7 | 1311.5 | 1318.2 |
| 42.5° | 513.6  | 514.2  | 547.0  | 630.2  | 745.2  | 896.0  | 1116.4 | 1351.1 | 1365.5 | 1379.9 | 1394.4 |
| 45°   | 457.4  | 459.6  | 489.4  | 569.8  | 687.6  | 857.6  | 1116.2 | 1412.4 | 1435.4 | 1458.5 | 1481.5 |
| 47.5° | 404.3  | 405.2  | 436.5  | 511.4  | 621.4  | 803.8  | 1114.2 | 1478.2 | 1509.6 | 1540.9 | 1572.3 |
| 50°   | 353.5  | 352.6  | 383.5  | 455.4  | 556.2  | 733.6  | 1096.9 | 1552.7 | 1592.3 | 1631.9 | 1671.5 |
| 52.5° | 295.3  | 299.2  | 331.2  | 400.1  | 497.0  | 662.1  | 1046.7 | 1634.3 | 1681.7 | 1729.1 | 1776.4 |
| 55°   | 238.3  | 240.0  | 274.2  | 338.6  | 436.8  | 595.5  | 959.2  | 1709.4 | 1765.2 | 1821.1 | 1876.9 |
| 57.5° | 175.6  | 180.7  | 210.6  | 274.2  | 375.8  | 539.3  | 847.9  | 1748.4 | 1816.3 | 1884.3 | 1952.3 |
| 60°   | 124.0  | 127.8  | 154.4  | 207.8  | 308.9  | 480.2  | 752.2  | 1726.6 | 1814.9 | 1903.3 | 1991.6 |
| 62.5° | 96.6   | 99.7   | 120.8  | 155.6  | 240.8  | 421.3  | 683.6  | 1656.3 | 1776.5 | 1896.6 | 2016.8 |
| 65°   | 84.7   | 87.5   | 106.8  | 124.5  | 179.9  | 361.2  | 646.0  | 1582.1 | 1741.0 | 1899.8 | 2058.6 |
| 67.5° | 76.6   | 79.9   | 96.6   | 109.0  | 146.6  | 315.1  | 636.2  | 1535.2 | 1715.1 | 1895.0 | 2074.9 |
| 69°   | 72.8   | 76.2   | 91.2   | 101.6  | 136.1  | 298.8  | 619.2  | 1461.5 | 1640.4 | 1819.2 | 1998.1 |
| 70°   | 70.6   | 73.4   | 87.2   | 98.0   | 132.7  | 287.4  | 590.9  | 1369.4 | 1545.1 | 1720.7 | 1896.4 |
| 72.5° | 65.5   | 66.9   | 79.1   | 89.4   | 123.2  | 232.4  | 454.6  | 1017.0 | 1169.3 | 1321.6 | 1473.9 |
| 75°   | 57.9   | 59.6   | 70.8   | 81.0   | 96.0   | 144.3  | 287.8  | 629.0  | 742.7  | 856.4  | 970.1  |
| 77.5° | 50.0   | 51.4   | 61.3   | 77.4   | 74.6   | 90.1   | 172.0  | 350.1  | 416.0  | 482.0  | 547.9  |
| 80°   | 40.1   | 41.8   | 50.5   | 76.8   | 61.6   | 70.0   | 123.7  | 244.8  | 262.6  | 280.4  | 298.1  |
| 82.5° | 29.4   | 30.8   | 39.6   | 62.2   | 47.2   | 52.8   | 94.3   | 207.6  | 213.7  | 219.9  | 226.1  |
| 85°   | 15.0   | 15.2   | 25.2   | 37.9   | 30.0   | 27.4   | 53.1   | 142.0  | 146.0  | 149.9  | 153.9  |
| 87.5° | 2.6    | 2.6    | 5.6    | 6.6    | 7.4    | 4.5    | 6.8    | 24.2   | 25.0   | 25.8   | 26.5   |
| 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):**

|       | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  |
| 2.5°  | 995.0  | 994.9  | 994.4  | 994.5  | 994.8  | 994.7  | 995.0  | 995.1  | 995.4  | 994.3  | 994.1  |
| 5°    | 1007.0 | 1006.9 | 1006.9 | 1006.8 | 1007.0 | 1007.0 | 1007.2 | 1007.6 | 1007.5 | 1006.8 | 1006.7 |
| 7.5°  | 1027.1 | 1027.2 | 1027.5 | 1027.2 | 1027.7 | 1027.5 | 1026.8 | 1027.8 | 1028.4 | 1028.5 | 1029.2 |
| 10°   | 1053.9 | 1054.2 | 1055.2 | 1055.0 | 1056.1 | 1055.9 | 1056.0 | 1057.0 | 1057.7 | 1057.8 | 1058.5 |
| 12.5° | 1085.1 | 1085.7 | 1086.2 | 1086.7 | 1087.8 | 1087.2 | 1088.5 | 1089.0 | 1090.0 | 1091.6 | 1090.7 |
| 15°   | 1114.6 | 1115.0 | 1116.6 | 1116.7 | 1117.6 | 1118.0 | 1119.3 | 1119.8 | 1120.0 | 1121.4 | 1121.6 |
| 17.5° | 1134.9 | 1135.1 | 1135.7 | 1135.4 | 1136.2 | 1135.9 | 1136.8 | 1137.2 | 1138.0 | 1138.7 | 1140.0 |
| 20°   | 1144.2 | 1143.7 | 1143.3 | 1143.1 | 1142.4 | 1141.6 | 1141.8 | 1142.2 | 1142.3 | 1143.0 | 1144.0 |
| 22.5° | 1145.6 | 1144.0 | 1142.2 | 1141.1 | 1139.4 | 1137.9 | 1136.4 | 1136.6 | 1136.7 | 1136.6 | 1137.2 |
| 25°   | 1145.8 | 1143.4 | 1140.7 | 1137.5 | 1135.1 | 1131.8 | 1129.2 | 1128.9 | 1128.1 | 1128.2 | 1128.5 |
| 27.5° | 1150.9 | 1148.2 | 1144.5 | 1140.7 | 1135.5 | 1131.2 | 1126.9 | 1125.4 | 1123.8 | 1122.8 | 1122.5 |
| 30°   | 1163.2 | 1160.0 | 1155.6 | 1150.8 | 1145.2 | 1138.4 | 1132.2 | 1130.3 | 1128.1 | 1126.2 | 1124.6 |
| 32.5° | 1183.0 | 1179.8 | 1174.8 | 1169.8 | 1162.3 | 1155.6 | 1149.5 | 1146.4 | 1143.3 | 1139.9 | 1136.8 |
| 35°   | 1214.4 | 1212.6 | 1208.2 | 1203.9 | 1198.3 | 1193.1 | 1187.6 | 1184.1 | 1178.9 | 1176.2 | 1172.4 |
| 37.5° | 1259.1 | 1260.4 | 1260.4 | 1261.0 | 1259.2 | 1256.7 | 1252.8 | 1249.2 | 1247.4 | 1240.4 | 1235.9 |
| 40°   | 1325.0 | 1331.7 | 1337.9 | 1342.7 | 1346.9 | 1351.1 | 1354.8 | 1352.6 | 1353.3 | 1351.4 | 1348.7 |
| 42.5° | 1408.8 | 1423.2 | 1436.4 | 1449.6 | 1459.1 | 1474.0 | 1484.4 | 1487.6 | 1496.0 | 1499.3 | 1505.4 |
| 45°   | 1504.5 | 1527.6 | 1549.7 | 1570.1 | 1589.2 | 1610.5 | 1631.2 | 1646.6 | 1663.4 | 1682.6 | 1701.6 |
| 47.5° | 1603.6 | 1635.0 | 1667.6 | 1694.2 | 1721.8 | 1753.2 | 1780.8 | 1804.0 | 1834.3 | 1862.3 | 1893.2 |
| 50°   | 1711.2 | 1750.8 | 1788.0 | 1820.8 | 1856.2 | 1892.5 | 1930.2 | 1964.3 | 2005.2 | 2050.1 | 2098.6 |
| 52.5° | 1823.8 | 1871.2 | 1914.2 | 1955.4 | 1997.0 | 2038.6 | 2078.8 | 2126.9 | 2177.3 | 2236.5 | 2297.1 |
| 55°   | 1932.8 | 1988.6 | 2037.4 | 2083.3 | 2130.9 | 2177.4 | 2218.8 | 2283.2 | 2345.1 | 2415.8 | 2494.8 |
| 57.5° | 2020.2 | 2088.2 | 2144.4 | 2198.9 | 2252.6 | 2302.1 | 2352.9 | 2425.6 | 2504.5 | 2587.0 | 2687.4 |
| 60°   | 2079.9 | 2168.2 | 2240.0 | 2305.5 | 2371.4 | 2433.6 | 2492.0 | 2587.1 | 2680.9 | 2783.5 | 2908.4 |
| 62.5° | 2137.0 | 2257.2 | 2350.8 | 2440.2 | 2529.0 | 2608.8 | 2681.5 | 2801.0 | 2923.6 | 3050.4 | 3199.0 |
| 65°   | 2217.5 | 2376.4 | 2514.2 | 2638.9 | 2761.8 | 2879.1 | 2988.0 | 3139.3 | 3294.1 | 3461.0 | 3638.4 |
| 67.5° | 2254.8 | 2434.7 | 2614.3 | 2782.4 | 2938.5 | 3087.0 | 3226.8 | 3409.8 | 3592.0 | 3785.4 | 3999.8 |
| 69°   | 2177.0 | 2355.9 | 2547.8 | 2731.3 | 2903.8 | 3061.3 | 3212.7 | 3399.5 | 3588.9 | 3786.6 | 4002.8 |
| 70°   | 2072.0 | 2247.7 | 2441.5 | 2633.3 | 2798.3 | 2962.4 | 3119.2 | 3304.6 | 3496.5 | 3694.6 | 3921.0 |
| 72.5° | 1626.2 | 1778.4 | 1967.4 | 2153.6 | 2319.1 | 2483.8 | 2636.1 | 2825.8 | 3019.0 | 3227.0 | 3441.4 |
| 75°   | 1083.8 | 1197.5 | 1338.3 | 1511.0 | 1662.7 | 1808.3 | 1956.0 | 2116.4 | 2304.8 | 2476.3 | 2672.4 |
| 77.5° | 613.8  | 679.8  | 761.6  | 873.9  | 982.7  | 1069.9 | 1175.2 | 1250.7 | 1360.0 | 1454.5 | 1554.2 |
| 80°   | 315.9  | 333.7  | 358.1  | 385.1  | 400.4  | 398.0  | 413.6  | 398.2  | 401.6  | 389.0  | 375.5  |
| 82.5° | 232.3  | 238.5  | 249.6  | 254.9  | 254.3  | 236.6  | 217.7  | 191.5  | 168.4  | 144.2  | 121.9  |
| 85°   | 157.8  | 161.8  | 164.6  | 168.8  | 167.5  | 159.9  | 142.8  | 120.1  | 97.9   | 78.6   | 62.9   |
| 87.5° | 27.3   | 28.1   | 27.9   | 30.2   | 30.3   | 28.1   | 23.2   | 19.8   | 16.6   | 12.4   | 8.8    |
| 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):**

|       | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  | 991.6  |
| 2.5°  | 993.9  | 993.9  | 994.4  | 993.9  | 993.9  | 993.9  | 993.6  | 994.2  | 993.9  | 993.0  | 992.2  |
| 5°    | 1006.8 | 1006.0 | 1005.8 | 1006.4 | 1006.9 | 1005.8 | 1006.6 | 1007.4 | 1006.0 | 1006.3 | 1005.8 |
| 7.5°  | 1028.6 | 1028.3 | 1028.1 | 1028.6 | 1028.6 | 1028.4 | 1028.6 | 1027.8 | 1027.2 | 1028.1 | 1028.9 |
| 10°   | 1057.8 | 1057.4 | 1058.0 | 1058.0 | 1059.1 | 1058.6 | 1058.3 | 1059.1 | 1058.6 | 1058.0 | 1058.2 |
| 12.5° | 1091.8 | 1091.1 | 1092.4 | 1092.4 | 1093.2 | 1093.4 | 1093.1 | 1093.3 | 1093.1 | 1092.2 | 1091.6 |
| 15°   | 1122.4 | 1121.2 | 1121.6 | 1123.8 | 1123.4 | 1124.1 | 1124.0 | 1123.6 | 1123.2 | 1123.0 | 1123.2 |
| 17.5° | 1140.7 | 1140.2 | 1140.2 | 1141.3 | 1142.2 | 1141.8 | 1141.8 | 1141.8 | 1141.6 | 1141.8 | 1142.4 |
| 20°   | 1144.2 | 1144.2 | 1144.4 | 1145.6 | 1147.0 | 1146.1 | 1146.0 | 1146.7 | 1146.1 | 1146.6 | 1146.9 |
| 22.5° | 1137.6 | 1138.2 | 1138.8 | 1140.2 | 1140.4 | 1140.4 | 1140.4 | 1140.7 | 1141.2 | 1141.3 | 1141.9 |
| 25°   | 1128.6 | 1129.2 | 1130.0 | 1131.2 | 1132.2 | 1132.2 | 1132.2 | 1132.8 | 1132.8 | 1133.1 | 1133.4 |
| 27.5° | 1121.8 | 1122.4 | 1123.2 | 1124.4 | 1125.8 | 1125.8 | 1125.8 | 1126.4 | 1126.4 | 1126.6 | 1127.2 |
| 30°   | 1122.7 | 1121.6 | 1122.4 | 1122.9 | 1123.8 | 1123.8 | 1123.5 | 1123.8 | 1124.1 | 1124.0 | 1124.4 |
| 32.5° | 1134.8 | 1132.2 | 1131.4 | 1131.2 | 1131.4 | 1130.6 | 1130.2 | 1129.8 | 1129.2 | 1129.2 | 1128.9 |
| 35°   | 1167.0 | 1163.1 | 1162.8 | 1160.5 | 1158.2 | 1156.1 | 1156.3 | 1154.6 | 1155.2 | 1153.6 | 1152.5 |
| 37.5° | 1233.1 | 1228.6 | 1231.4 | 1226.6 | 1223.4 | 1221.2 | 1218.6 | 1215.3 | 1213.2 | 1215.8 | 1215.9 |
| 40°   | 1351.4 | 1348.2 | 1347.4 | 1348.2 | 1345.4 | 1346.8 | 1340.6 | 1338.9 | 1335.3 | 1337.8 | 1341.2 |
| 42.5° | 1514.9 | 1512.9 | 1523.6 | 1525.6 | 1526.8 | 1528.4 | 1529.6 | 1520.2 | 1520.0 | 1518.0 | 1512.3 |
| 45°   | 1716.8 | 1728.6 | 1728.0 | 1741.0 | 1741.6 | 1737.6 | 1739.3 | 1735.0 | 1733.4 | 1727.2 | 1734.8 |
| 47.5° | 1924.3 | 1946.8 | 1955.4 | 1958.2 | 1968.9 | 1971.4 | 1961.2 | 1957.9 | 1963.8 | 1953.6 | 1955.0 |
| 50°   | 2147.0 | 2171.4 | 2191.1 | 2204.4 | 2212.0 | 2212.6 | 2205.0 | 2203.2 | 2208.6 | 2189.4 | 2198.4 |
| 52.5° | 2366.2 | 2402.8 | 2440.2 | 2460.0 | 2474.0 | 2475.1 | 2481.0 | 2474.0 | 2476.9 | 2472.3 | 2481.3 |
| 55°   | 2582.2 | 2645.7 | 2689.4 | 2728.2 | 2752.8 | 2773.9 | 2775.8 | 2783.4 | 2784.0 | 2793.4 | 2784.0 |
| 57.5° | 2793.4 | 2862.5 | 2938.8 | 3007.4 | 3045.5 | 3069.6 | 3092.2 | 3122.9 | 3129.7 | 3126.0 | 3131.9 |
| 60°   | 3042.7 | 3149.8 | 3253.3 | 3332.4 | 3398.2 | 3461.2 | 3495.0 | 3543.3 | 3551.0 | 3571.8 | 3553.8 |
| 62.5° | 3357.8 | 3513.1 | 3653.6 | 3760.2 | 3860.1 | 3958.0 | 4032.1 | 4069.3 | 4092.0 | 4135.8 | 4121.3 |
| 65°   | 3841.2 | 4027.6 | 4213.7 | 4366.1 | 4506.2 | 4622.8 | 4735.2 | 4788.8 | 4848.1 | 4910.2 | 4921.6 |
| 67.5° | 4239.3 | 4470.0 | 4679.8 | 4865.6 | 5035.3 | 5164.8 | 5281.8 | 5374.7 | 5447.0 | 5492.7 | 5496.4 |
| 69°   | 4257.4 | 4497.2 | 4725.0 | 4924.3 | 5101.4 | 5239.2 | 5362.2 | 5465.6 | 5536.0 | 5582.8 | 5595.2 |
| 70°   | 4171.0 | 4416.4 | 4659.2 | 4860.5 | 5041.8 | 5182.7 | 5313.1 | 5411.6 | 5490.2 | 5537.9 | 5554.5 |
| 72.5° | 3685.0 | 3947.1 | 4206.6 | 4383.0 | 4568.2 | 4736.0 | 4840.5 | 4941.0 | 5051.7 | 5066.0 | 5111.8 |
| 75°   | 2904.8 | 3125.1 | 3326.5 | 3461.4 | 3616.2 | 3766.6 | 3869.2 | 3895.7 | 3953.6 | 4026.4 | 4000.4 |
| 77.5° | 1683.4 | 1751.2 | 1881.0 | 1914.4 | 1886.2 | 1951.6 | 1973.4 | 1927.1 | 1924.8 | 1967.5 | 1882.8 |
| 80°   | 373.0  | 351.8  | 378.4  | 358.6  | 359.2  | 359.7  | 353.8  | 351.5  | 355.8  | 351.5  | 345.6  |
| 82.5° | 103.4  | 100.0  | 100.6  | 99.4   | 101.4  | 100.0  | 99.1   | 101.4  | 101.1  | 100.9  | 102.8  |
| 85°   | 49.8   | 49.2   | 48.3   | 48.0   | 46.9   | 45.5   | 43.2   | 43.2   | 44.3   | 42.7   | 43.5   |
| 87.5° | 6.5    | 6.2    | 6.2    | 7.4    | 6.5    | 5.4    | 5.4    | 5.4    | 5.1    | 5.1    | 5.1    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)