

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: P150974

Luminaire Tested: **VXM-F04-LED-E1-SL3-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P150974  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXM-F04-LED-E1-SL3-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9157 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2  
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



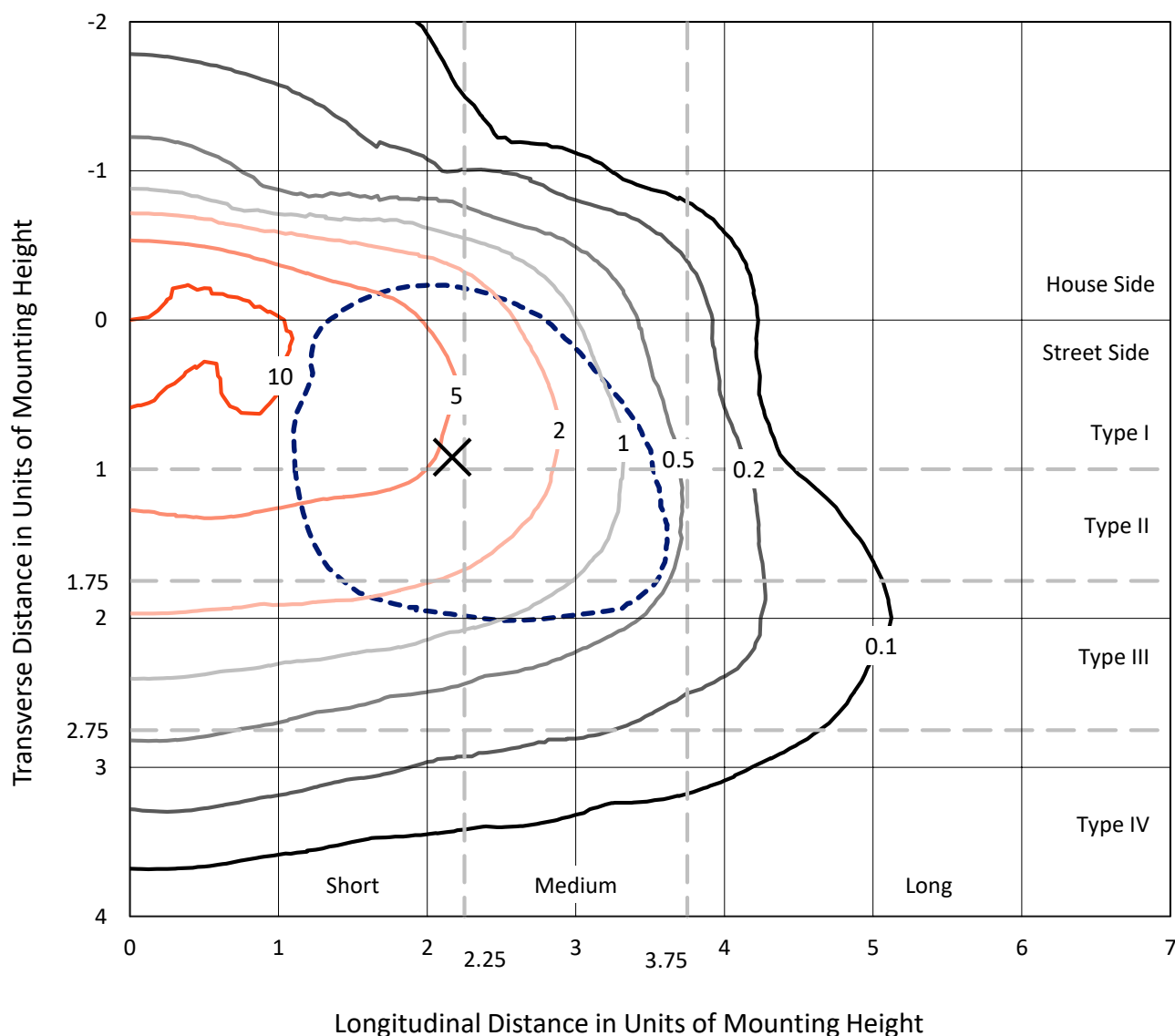
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CATALOG NUMBER: VXM-F04-LED-E1-SL3-7030

## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

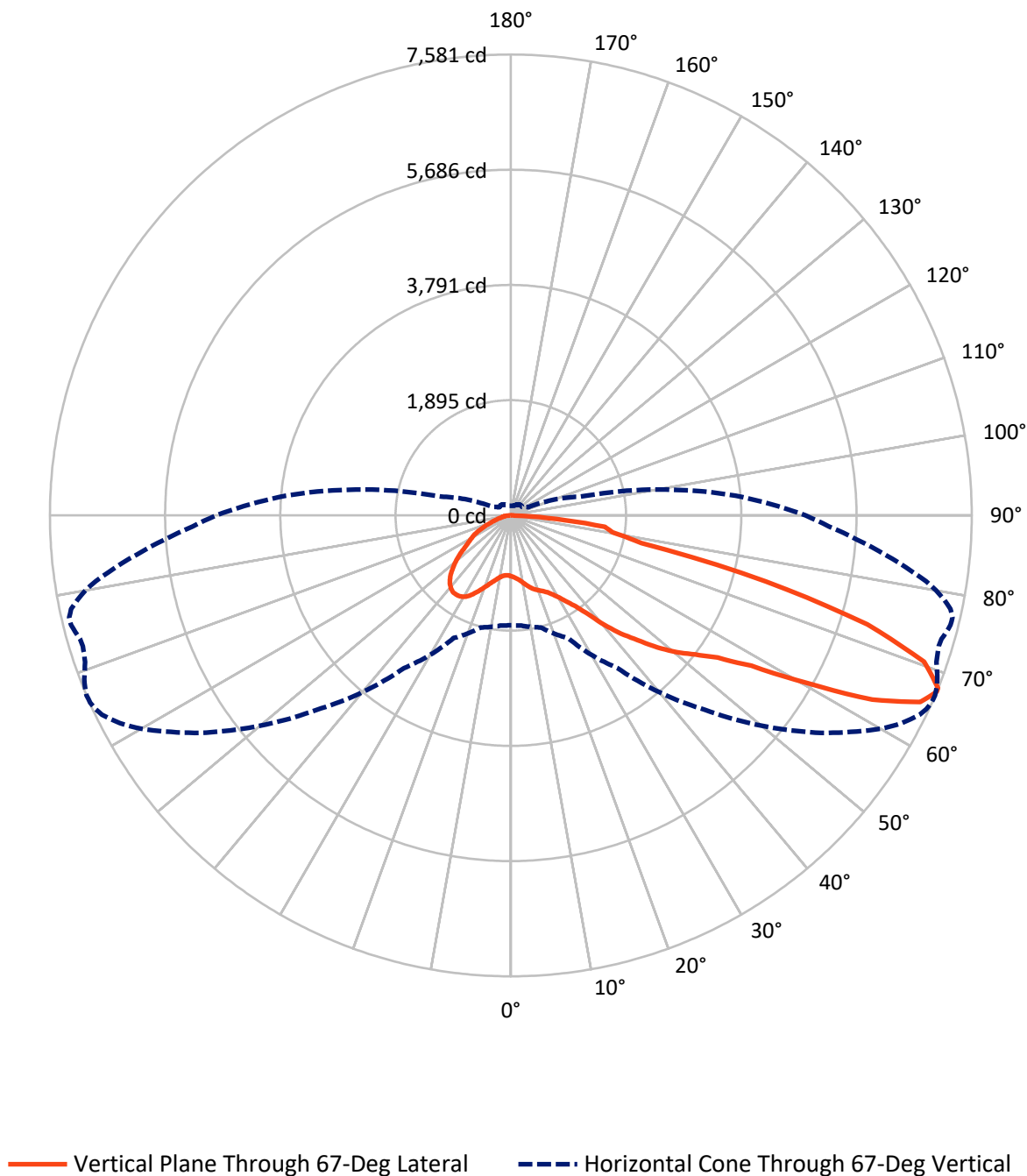


Based on 10 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2113.1   | 0.0    | 2113.1 |
|                    | % Fixture | 23.1     | 0.0    | 23.1   |
| <b>Street Side</b> | Lumens    | 7043.9   | 0.0    | 7043.9 |
|                    | % Fixture | 76.9     | 0.0    | 76.9   |
| <b>Total</b>       | Lumens    | 9157.0   | 0.0    | 9157.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.6   | 1.1       |
| 10°-20°   | 341.5  | 3.7       |
| 20°-30°   | 603.0  | 6.6       |
| 30°-40°   | 865.5  | 9.5       |
| 40°-50°   | 1314.5 | 14.4      |
| 50°-60°   | 1935.4 | 21.1      |
| 60°-70°   | 2572.1 | 28.1      |
| 70°-80°   | 1258.3 | 13.7      |
| 80°-90°   | 167.1  | 1.8       |
| 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°    | 9157.0 | 100.0     |
| 0°-180°   | 9157.0 | 100.0     |

**Coefficient of Utilization**



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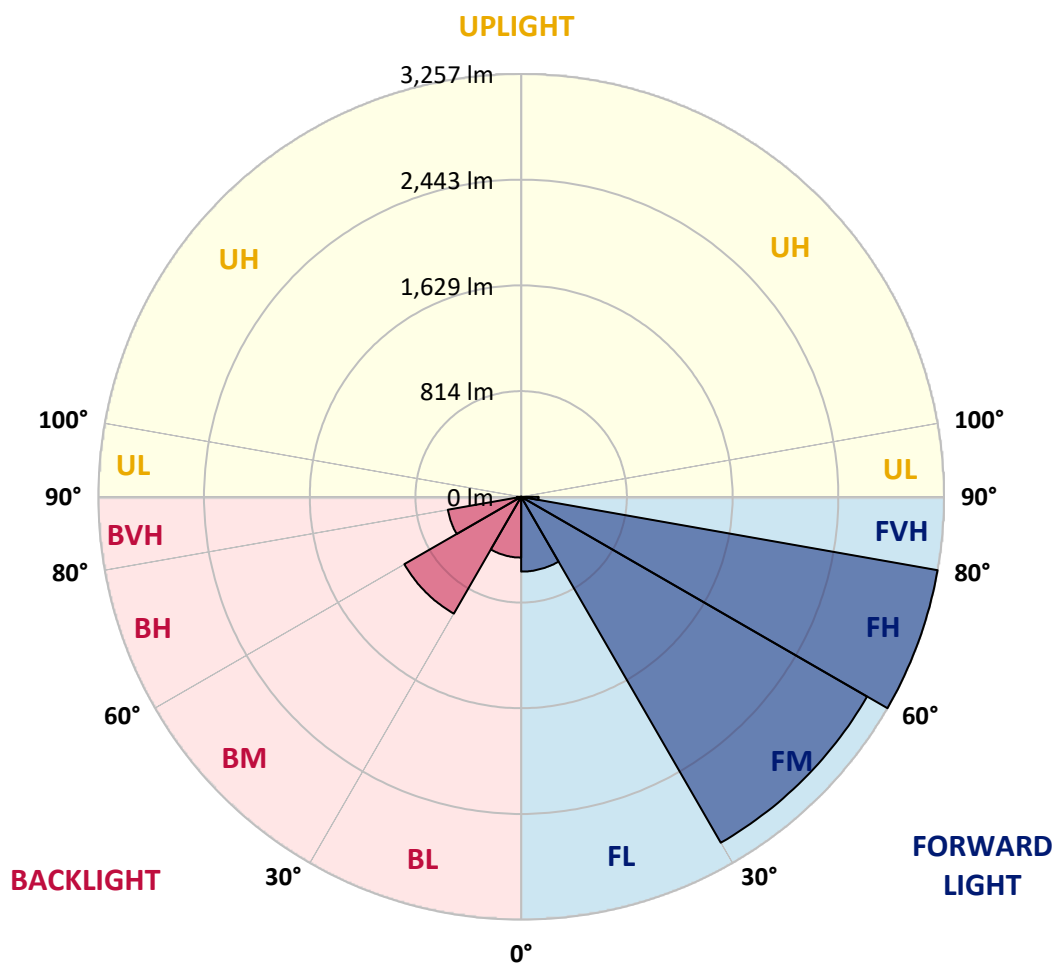
CATALOG NUMBER: VXM-F04-LED-E1-SL3-7030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 576.1  | 6.3       |                         |      |         |
| FM   | (30°-60°)   | 3076.5 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 3257.1 | 35.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 134.2  | 1.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 468.0  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1038.9 | 11.3      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 573.3  | 6.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 32.9   | 0.4       |                         |      | 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 III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 |
| 2.5°  | 1047.5 | 1048.6 | 1046.5 | 1045.5 | 1039.5 | 1033.5 | 1029.5 | 1024.4 | 1024.4 | 1024.4 | 1022.4 |
| 5°    | 1106.9 | 1102.8 | 1105.9 | 1098.8 | 1086.8 | 1075.7 | 1064.6 | 1055.6 | 1053.6 | 1053.6 | 1049.6 |
| 7.5°  | 1178.2 | 1173.2 | 1171.2 | 1161.1 | 1143.1 | 1127.0 | 1104.9 | 1095.8 | 1090.8 | 1088.8 | 1086.8 |
| 10°   | 1264.7 | 1264.7 | 1251.6 | 1234.5 | 1210.4 | 1182.3 | 1158.1 | 1142.0 | 1141.0 | 1141.0 | 1132.0 |
| 12.5° | 1353.2 | 1355.2 | 1338.1 | 1321.0 | 1281.8 | 1244.6 | 1216.4 | 1198.3 | 1197.3 | 1193.3 | 1188.3 |
| 15°   | 1434.6 | 1429.6 | 1418.5 | 1393.4 | 1350.2 | 1305.9 | 1270.7 | 1252.6 | 1248.6 | 1244.6 | 1241.6 |
| 17.5° | 1502.0 | 1496.9 | 1482.9 | 1450.7 | 1405.4 | 1353.2 | 1309.9 | 1290.8 | 1288.8 | 1286.8 | 1282.8 |
| 20°   | 1544.2 | 1540.2 | 1520.1 | 1482.9 | 1435.6 | 1382.3 | 1336.1 | 1323.0 | 1319.0 | 1319.0 | 1317.0 |
| 22.5° | 1568.3 | 1562.3 | 1533.1 | 1483.9 | 1437.6 | 1398.4 | 1360.2 | 1352.2 | 1349.1 | 1350.2 | 1350.2 |
| 25°   | 1580.4 | 1575.3 | 1534.1 | 1463.8 | 1419.5 | 1408.5 | 1392.4 | 1387.3 | 1388.4 | 1389.4 | 1391.4 |
| 27.5° | 1582.4 | 1575.3 | 1527.1 | 1437.6 | 1396.4 | 1427.6 | 1438.6 | 1446.7 | 1446.7 | 1450.7 | 1457.7 |
| 30°   | 1567.3 | 1559.3 | 1513.0 | 1417.5 | 1386.3 | 1465.8 | 1510.0 | 1531.1 | 1539.2 | 1537.1 | 1553.2 |
| 32.5° | 1541.2 | 1536.1 | 1498.9 | 1417.5 | 1414.5 | 1541.2 | 1619.6 | 1649.7 | 1653.8 | 1655.8 | 1673.9 |
| 35°   | 1532.1 | 1531.1 | 1515.0 | 1465.8 | 1502.0 | 1673.9 | 1793.5 | 1816.6 | 1821.6 | 1821.6 | 1834.7 |
| 37.5° | 1530.1 | 1535.1 | 1553.2 | 1556.2 | 1655.8 | 1870.9 | 2027.7 | 2062.9 | 2062.9 | 2073.0 | 2073.0 |
| 40°   | 1530.1 | 1541.2 | 1609.5 | 1691.0 | 1843.8 | 2127.3 | 2344.4 | 2384.6 | 2384.6 | 2395.7 | 2389.7 |
| 42.5° | 1589.4 | 1605.5 | 1718.1 | 1872.9 | 2081.0 | 2391.7 | 2641.0 | 2686.2 | 2689.2 | 2686.2 | 2695.3 |
| 45°   | 1706.0 | 1720.1 | 1856.8 | 2079.0 | 2325.3 | 2675.2 | 2924.5 | 2978.8 | 2967.7 | 2974.8 | 2977.8 |
| 47.5° | 1860.9 | 1883.0 | 2038.8 | 2304.2 | 2563.6 | 2937.6 | 3242.2 | 3291.4 | 3287.4 | 3290.4 | 3277.4 |
| 50°   | 2025.7 | 2048.9 | 2222.8 | 2527.4 | 2800.8 | 3148.7 | 3497.5 | 3570.9 | 3563.9 | 3568.9 | 3575.9 |
| 52.5° | 2171.5 | 2185.6 | 2353.5 | 2695.3 | 2980.8 | 3345.7 | 3693.6 | 3785.0 | 3801.1 | 3803.1 | 3808.2 |
| 55°   | 2258.0 | 2275.0 | 2428.9 | 2778.7 | 3111.5 | 3538.7 | 3917.8 | 4056.5 | 4087.6 | 4095.7 | 4117.8 |
| 57.5° | 2288.1 | 2306.2 | 2446.0 | 2790.8 | 3182.9 | 3719.7 | 4230.4 | 4474.7 | 4500.8 | 4544.1 | 4614.4 |
| 60°   | 2287.1 | 2306.2 | 2427.9 | 2763.6 | 3255.2 | 3943.9 | 4717.0 | 5126.2 | 5258.9 | 5303.1 | 5403.6 |
| 62.5° | 2193.6 | 2215.7 | 2339.4 | 2681.2 | 3347.7 | 4230.4 | 5440.8 | 6070.2 | 6241.1 | 6321.5 | 6430.1 |
| 65°   | 1988.5 | 2004.6 | 2120.2 | 2472.1 | 3321.6 | 4512.9 | 6046.0 | 6831.2 | 6987.0 | 7104.6 | 7298.7 |
| 67°   | 1806.6 | 1816.6 | 1907.1 | 2224.8 | 3066.2 | 4523.0 | 6237.0 | 7020.2 | 7155.9 | 7280.6 | 7480.6 |
| 67.5° | 1760.3 | 1781.4 | 1851.8 | 2149.4 | 2970.7 | 4465.7 | 6224.0 | 6991.0 | 7129.8 | 7259.4 | 7470.6 |
| 70°   | 1432.6 | 1462.7 | 1497.9 | 1698.0 | 2335.4 | 3756.9 | 5762.5 | 6486.4 | 6608.0 | 6728.6 | 7023.2 |
| 72.5° | 883.7  | 938.0  | 945.0  | 1071.7 | 1520.1 | 2596.8 | 4662.7 | 5470.0 | 5561.5 | 5647.9 | 5949.5 |
| 75°   | 520.8  | 528.8  | 553.9  | 656.5  | 891.7  | 1552.2 | 3128.6 | 4063.5 | 4148.0 | 4190.2 | 4426.4 |
| 77.5° | 290.5  | 298.6  | 319.7  | 408.2  | 685.6  | 1045.5 | 1821.6 | 2387.6 | 2438.9 | 2492.2 | 2454.0 |
| 80°   | 120.6  | 131.7  | 141.8  | 164.9  | 320.7  | 825.4  | 1252.6 | 1518.0 | 1551.2 | 1582.4 | 1621.6 |
| 82.5° | 58.3   | 62.3   | 76.4   | 87.5   | 116.6  | 338.8  | 982.2  | 1316.0 | 1355.2 | 1400.4 | 1491.9 |
| 85°   | 27.1   | 30.2   | 42.2   | 50.3   | 56.3   | 85.5   | 328.7  | 640.4  | 694.7  | 704.7  | 722.8  |
| 87.5° | 2.0    | 2.0    | 5.0    | 7.0    | 10.1   | 11.1   | 34.2   | 48.3   | 54.3   | 49.3   | 62.3   |
| 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):**

|       | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 |
| 2.5°  | 1021.4 | 1020.4 | 1018.4 | 1018.4 | 1017.4 | 1017.4 | 1017.4 | 1015.4 | 1015.4 | 1015.4 | 1014.4 |
| 5°    | 1048.6 | 1047.5 | 1044.5 | 1044.5 | 1042.5 | 1042.5 | 1039.5 | 1038.5 | 1036.5 | 1036.5 | 1035.5 |
| 7.5°  | 1083.7 | 1082.7 | 1078.7 | 1078.7 | 1075.7 | 1074.7 | 1072.7 | 1069.7 | 1069.7 | 1067.7 | 1065.6 |
| 10°   | 1132.0 | 1129.0 | 1128.0 | 1122.9 | 1124.0 | 1121.9 | 1119.9 | 1116.9 | 1114.9 | 1112.9 | 1110.9 |
| 12.5° | 1186.3 | 1186.3 | 1181.3 | 1178.2 | 1180.3 | 1178.2 | 1174.2 | 1173.2 | 1170.2 | 1170.2 | 1167.2 |
| 15°   | 1237.6 | 1237.6 | 1235.5 | 1231.5 | 1232.5 | 1229.5 | 1228.5 | 1226.5 | 1222.5 | 1223.5 | 1222.5 |
| 17.5° | 1281.8 | 1281.8 | 1278.8 | 1276.8 | 1276.8 | 1273.7 | 1274.8 | 1272.7 | 1270.7 | 1269.7 | 1266.7 |
| 20°   | 1317.0 | 1317.0 | 1315.0 | 1313.0 | 1314.0 | 1314.0 | 1310.9 | 1310.9 | 1310.9 | 1308.9 | 1308.9 |
| 22.5° | 1351.2 | 1352.2 | 1352.2 | 1352.2 | 1353.2 | 1354.2 | 1353.2 | 1355.2 | 1354.2 | 1356.2 | 1356.2 |
| 25°   | 1396.4 | 1399.4 | 1401.4 | 1401.4 | 1406.4 | 1407.5 | 1408.5 | 1411.5 | 1411.5 | 1414.5 | 1415.5 |
| 27.5° | 1463.8 | 1465.8 | 1473.8 | 1475.8 | 1476.8 | 1484.9 | 1485.9 | 1489.9 | 1493.9 | 1494.9 | 1495.9 |
| 30°   | 1556.2 | 1561.3 | 1567.3 | 1571.3 | 1571.3 | 1581.4 | 1585.4 | 1583.4 | 1594.4 | 1597.5 | 1601.5 |
| 32.5° | 1679.9 | 1683.9 | 1690.0 | 1694.0 | 1698.0 | 1703.0 | 1704.0 | 1709.1 | 1718.1 | 1726.1 | 1721.1 |
| 35°   | 1835.7 | 1845.8 | 1835.7 | 1846.8 | 1849.8 | 1856.8 | 1854.8 | 1860.9 | 1864.9 | 1867.9 | 1866.9 |
| 37.5° | 2061.9 | 2056.9 | 2054.9 | 2050.9 | 2043.8 | 2068.0 | 2055.9 | 2054.9 | 2048.9 | 2065.9 | 2054.9 |
| 40°   | 2359.5 | 2362.5 | 2365.5 | 2349.4 | 2340.4 | 2340.4 | 2337.4 | 2326.3 | 2321.3 | 2336.4 | 2334.4 |
| 42.5° | 2670.1 | 2673.2 | 2659.1 | 2649.0 | 2625.9 | 2622.9 | 2608.8 | 2605.8 | 2600.8 | 2608.8 | 2600.8 |
| 45°   | 2952.6 | 2954.6 | 2923.5 | 2928.5 | 2910.4 | 2913.4 | 2891.3 | 2900.4 | 2888.3 | 2896.3 | 2911.4 |
| 47.5° | 3268.3 | 3272.3 | 3245.2 | 3256.2 | 3238.2 | 3227.1 | 3226.1 | 3232.1 | 3219.0 | 3227.1 | 3231.1 |
| 50°   | 3554.8 | 3549.8 | 3535.7 | 3538.7 | 3530.7 | 3532.7 | 3520.6 | 3531.7 | 3516.6 | 3532.7 | 3530.7 |
| 52.5° | 3809.2 | 3803.1 | 3800.1 | 3810.2 | 3803.1 | 3803.1 | 3796.1 | 3801.1 | 3803.1 | 3827.3 | 3832.3 |
| 55°   | 4117.8 | 4122.8 | 4127.9 | 4146.0 | 4154.0 | 4140.9 | 4154.0 | 4179.1 | 4180.1 | 4237.4 | 4268.6 |
| 57.5° | 4613.4 | 4648.6 | 4666.7 | 4677.8 | 4725.0 | 4720.0 | 4750.2 | 4810.5 | 4816.5 | 4949.2 | 5026.6 |
| 60°   | 5478.0 | 5540.3 | 5599.7 | 5567.5 | 5663.0 | 5692.1 | 5710.2 | 5822.8 | 5858.0 | 5983.7 | 6051.0 |
| 62.5° | 6569.8 | 6576.8 | 6669.3 | 6640.2 | 6694.5 | 6681.4 | 6703.5 | 6754.8 | 6801.0 | 6904.6 | 6967.9 |
| 65°   | 7331.8 | 7365.0 | 7401.2 | 7364.0 | 7363.0 | 7318.8 | 7290.6 | 7289.6 | 7317.8 | 7339.9 | 7410.2 |
| 67°   | 7538.9 | 7572.1 | 7581.2 | 7554.0 | 7514.8 | 7458.5 | 7406.2 | 7379.1 | 7361.0 | 7371.0 | 7415.3 |
| 67.5° | 7536.9 | 7568.1 | 7579.1 | 7553.0 | 7498.7 | 7451.5 | 7396.2 | 7365.0 | 7340.9 | 7345.9 | 7383.1 |
| 70°   | 7108.7 | 7176.0 | 7212.2 | 7220.2 | 7213.2 | 7130.8 | 7083.5 | 7055.4 | 7035.3 | 6986.0 | 6983.0 |
| 72.5° | 6022.9 | 6104.3 | 6132.5 | 6177.7 | 6197.8 | 6076.2 | 6024.9 | 6056.1 | 5985.7 | 5829.9 | 5836.9 |
| 75°   | 4422.4 | 4428.5 | 4334.0 | 4315.9 | 4248.5 | 3973.0 | 3890.6 | 3815.2 | 3694.6 | 3506.6 | 3329.6 |
| 77.5° | 2305.2 | 2304.2 | 2195.6 | 2140.3 | 2059.9 | 1894.0 | 1886.0 | 1751.3 | 1656.8 | 1484.9 | 1422.5 |
| 80°   | 1637.7 | 1663.8 | 1700.0 | 1718.1 | 1690.0 | 1625.6 | 1537.1 | 1441.6 | 1332.1 | 1224.5 | 1095.8 |
| 82.5° | 1523.1 | 1539.2 | 1558.3 | 1487.9 | 1448.7 | 1358.2 | 1290.8 | 1152.1 | 1074.7 | 952.0  | 822.4  |
| 85°   | 740.9  | 790.2  | 752.0  | 707.7  | 692.7  | 541.9  | 523.8  | 437.3  | 397.1  | 326.7  | 304.6  |
| 87.5° | 47.3   | 58.3   | 52.3   | 47.3   | 41.2   | 23.1   | 31.2   | 22.1   | 23.1   | 17.1   | 15.1   |
| 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):**

|       | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 |
| 2.5°  | 1014.4 | 1013.4 | 1012.4 | 1011.4 | 1010.4 | 1010.4 | 1009.3 | 1008.3 | 1007.3 | 1005.3 | 1005.3 |
| 5°    | 1033.5 | 1033.5 | 1032.5 | 1030.5 | 1030.5 | 1028.4 | 1025.4 | 1024.4 | 1024.4 | 1022.4 | 1020.4 |
| 7.5°  | 1064.6 | 1063.6 | 1061.6 | 1060.6 | 1058.6 | 1056.6 | 1054.6 | 1052.6 | 1051.6 | 1048.6 | 1047.5 |
| 10°   | 1111.9 | 1109.9 | 1104.9 | 1102.8 | 1101.8 | 1099.8 | 1097.8 | 1095.8 | 1092.8 | 1090.8 | 1089.8 |
| 12.5° | 1165.2 | 1164.2 | 1160.1 | 1162.2 | 1157.1 | 1155.1 | 1153.1 | 1148.1 | 1150.1 | 1146.1 | 1144.1 |
| 15°   | 1218.5 | 1219.5 | 1217.4 | 1217.4 | 1213.4 | 1210.4 | 1208.4 | 1204.4 | 1203.4 | 1201.4 | 1199.4 |
| 17.5° | 1265.7 | 1267.7 | 1264.7 | 1262.7 | 1260.7 | 1258.7 | 1254.6 | 1250.6 | 1250.6 | 1246.6 | 1244.6 |
| 20°   | 1308.9 | 1310.9 | 1309.9 | 1307.9 | 1304.9 | 1303.9 | 1301.9 | 1298.9 | 1298.9 | 1296.9 | 1293.9 |
| 22.5° | 1358.2 | 1359.2 | 1359.2 | 1358.2 | 1355.2 | 1356.2 | 1354.2 | 1351.2 | 1352.2 | 1348.1 | 1348.1 |
| 25°   | 1417.5 | 1419.5 | 1421.5 | 1422.5 | 1420.5 | 1421.5 | 1419.5 | 1417.5 | 1416.5 | 1417.5 | 1416.5 |
| 27.5° | 1498.9 | 1500.9 | 1507.0 | 1502.0 | 1507.0 | 1508.0 | 1505.0 | 1500.9 | 1504.0 | 1509.0 | 1506.0 |
| 30°   | 1606.5 | 1604.5 | 1612.5 | 1613.5 | 1612.5 | 1613.5 | 1611.5 | 1608.5 | 1610.5 | 1619.6 | 1614.6 |
| 32.5° | 1727.1 | 1731.2 | 1733.2 | 1735.2 | 1738.2 | 1742.2 | 1739.2 | 1736.2 | 1741.2 | 1738.2 | 1745.2 |
| 35°   | 1872.9 | 1882.0 | 1885.0 | 1882.0 | 1884.0 | 1891.0 | 1890.0 | 1891.0 | 1901.1 | 1891.0 | 1904.1 |
| 37.5° | 2056.9 | 2065.9 | 2073.0 | 2069.0 | 2074.0 | 2074.0 | 2082.0 | 2104.1 | 2090.1 | 2108.2 | 2122.2 |
| 40°   | 2324.3 | 2338.4 | 2339.4 | 2338.4 | 2343.4 | 2349.4 | 2357.5 | 2381.6 | 2365.5 | 2384.6 | 2397.7 |
| 42.5° | 2599.8 | 2616.9 | 2622.9 | 2612.8 | 2623.9 | 2637.0 | 2638.0 | 2659.1 | 2660.1 | 2663.1 | 2670.1 |
| 45°   | 2910.4 | 2925.5 | 2937.6 | 2932.5 | 2933.5 | 2950.6 | 2946.6 | 2966.7 | 2951.6 | 2951.6 | 2955.7 |
| 47.5° | 3241.2 | 3255.2 | 3263.3 | 3271.3 | 3261.3 | 3276.4 | 3283.4 | 3279.4 | 3261.3 | 3257.3 | 3233.1 |
| 50°   | 3542.8 | 3554.8 | 3566.9 | 3589.0 | 3588.0 | 3595.0 | 3600.1 | 3582.0 | 3578.0 | 3555.8 | 3528.7 |
| 52.5° | 3862.5 | 3893.6 | 3920.8 | 3967.0 | 3974.0 | 3998.2 | 3989.1 | 3959.0 | 3953.9 | 3917.8 | 3881.6 |
| 55°   | 4307.8 | 4397.3 | 4436.5 | 4507.9 | 4556.1 | 4555.1 | 4535.0 | 4530.0 | 4491.8 | 4419.4 | 4376.2 |
| 57.5° | 5082.9 | 5222.7 | 5290.0 | 5382.5 | 5397.6 | 5388.5 | 5362.4 | 5316.2 | 5249.8 | 5128.2 | 5049.7 |
| 60°   | 6201.8 | 6288.3 | 6366.7 | 6388.8 | 6399.9 | 6382.8 | 6291.3 | 6188.8 | 6059.1 | 5891.2 | 5751.5 |
| 62.5° | 7047.3 | 7135.8 | 7194.1 | 7185.1 | 7115.7 | 7028.2 | 6894.5 | 6722.6 | 6540.6 | 6352.6 | 6143.5 |
| 65°   | 7477.6 | 7514.8 | 7505.8 | 7435.4 | 7316.8 | 7163.9 | 6968.9 | 6756.8 | 6542.7 | 6320.5 | 6103.3 |
| 67°   | 7454.5 | 7455.5 | 7394.2 | 7257.4 | 7105.6 | 6913.6 | 6675.4 | 6444.1 | 6192.8 | 5959.6 | 5701.2 |
| 67.5° | 7413.3 | 7409.2 | 7323.8 | 7174.0 | 7010.1 | 6812.1 | 6564.8 | 6325.5 | 6065.1 | 5829.9 | 5562.5 |
| 70°   | 6946.8 | 6890.5 | 6697.5 | 6458.2 | 6230.0 | 5962.6 | 5703.2 | 5428.8 | 5135.2 | 4933.1 | 4625.5 |
| 72.5° | 5708.2 | 5518.2 | 5185.5 | 4935.1 | 4690.8 | 4341.0 | 4179.1 | 3838.3 | 3632.2 | 3503.6 | 3271.3 |
| 75°   | 3305.5 | 3146.7 | 2889.3 | 2655.1 | 2536.4 | 2329.3 | 2230.8 | 1980.5 | 1928.2 | 1926.2 | 1845.8 |
| 77.5° | 1261.7 | 1100.8 | 935.0  | 753.0  | 640.4  | 508.7  | 448.4  | 401.1  | 364.9  | 390.1  | 353.9  |
| 80°   | 946.0  | 778.1  | 608.2  | 442.3  | 315.7  | 233.2  | 200.1  | 185.0  | 175.9  | 168.9  | 163.9  |
| 82.5° | 704.7  | 555.9  | 431.3  | 281.5  | 197.0  | 148.8  | 128.7  | 120.6  | 116.6  | 109.6  | 103.5  |
| 85°   | 238.3  | 191.0  | 150.8  | 104.6  | 82.4   | 67.4   | 62.3   | 60.3   | 57.3   | 52.3   | 49.3   |
| 87.5° | 13.1   | 12.1   | 13.1   | 10.1   | 12.1   | 10.1   | 11.1   | 11.1   | 11.1   | 10.1   | 10.1   |
| 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):**

|       | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 | 1000.3 |
| 2.5°  | 1004.3 | 1004.3 | 1004.3 | 1002.3 | 999.3  | 993.3  | 987.2  | 982.2  | 977.2  | 974.2  | 972.1  |
| 5°    | 1019.4 | 1017.4 | 1016.4 | 1015.4 | 1008.3 | 996.3  | 985.2  | 975.2  | 965.1  | 957.1  | 954.1  |
| 7.5°  | 1046.5 | 1042.5 | 1041.5 | 1038.5 | 1029.5 | 1011.4 | 995.3  | 979.2  | 965.1  | 954.1  | 949.0  |
| 10°   | 1087.8 | 1087.8 | 1081.7 | 1077.7 | 1067.7 | 1043.5 | 1020.4 | 999.3  | 980.2  | 968.1  | 965.1  |
| 12.5° | 1140.0 | 1140.0 | 1135.0 | 1132.0 | 1119.9 | 1088.8 | 1060.6 | 1035.5 | 1017.4 | 1005.3 | 1004.3 |
| 15°   | 1194.3 | 1193.3 | 1189.3 | 1185.3 | 1172.2 | 1139.0 | 1110.9 | 1088.8 | 1073.7 | 1059.6 | 1055.6 |
| 17.5° | 1242.6 | 1242.6 | 1237.6 | 1233.5 | 1220.5 | 1192.3 | 1167.2 | 1151.1 | 1134.0 | 1104.9 | 1082.7 |
| 20°   | 1290.8 | 1291.8 | 1287.8 | 1283.8 | 1272.7 | 1248.6 | 1237.6 | 1221.5 | 1183.3 | 1119.9 | 1067.7 |
| 22.5° | 1344.1 | 1348.1 | 1343.1 | 1339.1 | 1330.0 | 1320.0 | 1316.0 | 1277.8 | 1197.3 | 1095.8 | 1019.4 |
| 25°   | 1412.5 | 1419.5 | 1413.5 | 1411.5 | 1406.4 | 1409.5 | 1397.4 | 1308.9 | 1177.2 | 1043.5 | 948.0  |
| 27.5° | 1506.0 | 1506.0 | 1507.0 | 1507.0 | 1505.0 | 1516.0 | 1471.8 | 1309.9 | 1133.0 | 976.2  | 862.6  |
| 30°   | 1615.6 | 1621.6 | 1619.6 | 1619.6 | 1627.6 | 1634.7 | 1513.0 | 1287.8 | 1076.7 | 892.7  | 758.0  |
| 32.5° | 1747.3 | 1752.3 | 1754.3 | 1745.2 | 1777.4 | 1741.2 | 1528.1 | 1247.6 | 1007.3 | 789.2  | 633.4  |
| 35°   | 1906.1 | 1913.1 | 1918.2 | 1919.2 | 1940.3 | 1833.7 | 1520.1 | 1188.3 | 907.8  | 659.5  | 496.6  |
| 37.5° | 2113.2 | 2127.3 | 2138.3 | 2143.4 | 2144.4 | 1912.1 | 1497.9 | 1109.9 | 778.1  | 514.7  | 370.0  |
| 40°   | 2388.7 | 2403.7 | 2400.7 | 2410.8 | 2353.5 | 1958.4 | 1447.7 | 996.3  | 617.3  | 378.0  | 285.5  |
| 42.5° | 2654.1 | 2656.1 | 2660.1 | 2651.0 | 2534.4 | 1982.5 | 1377.3 | 857.5  | 462.4  | 282.5  | 244.3  |
| 45°   | 2950.6 | 2933.5 | 2914.4 | 2900.4 | 2701.3 | 1991.5 | 1280.8 | 688.6  | 326.7  | 237.3  | 226.2  |
| 47.5° | 3229.1 | 3206.0 | 3166.8 | 3126.6 | 2850.1 | 1977.5 | 1157.1 | 515.7  | 248.3  | 217.2  | 214.1  |
| 50°   | 3502.6 | 3459.3 | 3404.0 | 3357.8 | 2992.9 | 1956.4 | 1020.4 | 372.0  | 217.2  | 207.1  | 204.1  |
| 52.5° | 3841.3 | 3769.0 | 3696.6 | 3636.3 | 3178.8 | 1923.2 | 876.6  | 282.5  | 204.1  | 199.1  | 195.0  |
| 55°   | 4305.8 | 4205.3 | 4088.7 | 4004.2 | 3431.2 | 1872.9 | 725.8  | 239.3  | 198.0  | 194.0  | 188.0  |
| 57.5° | 4949.2 | 4798.4 | 4666.7 | 4529.0 | 3776.0 | 1821.6 | 596.2  | 222.2  | 197.0  | 191.0  | 183.0  |
| 60°   | 5606.7 | 5425.7 | 5257.8 | 5060.8 | 4127.9 | 1770.4 | 505.7  | 220.2  | 200.1  | 191.0  | 178.9  |
| 62.5° | 5948.5 | 5761.5 | 5559.4 | 5359.4 | 4279.7 | 1649.7 | 443.3  | 223.2  | 207.1  | 194.0  | 178.9  |
| 65°   | 5870.1 | 5641.9 | 5436.8 | 5232.7 | 4103.7 | 1421.5 | 375.0  | 227.2  | 221.2  | 206.1  | 182.0  |
| 67°   | 5476.0 | 5237.7 | 5040.7 | 4845.7 | 3711.7 | 1190.3 | 321.7  | 231.2  | 236.3  | 220.2  | 188.0  |
| 67.5° | 5337.3 | 5099.0 | 4905.0 | 4715.0 | 3596.0 | 1142.0 | 308.6  | 233.2  | 239.3  | 224.2  | 190.0  |
| 70°   | 4425.4 | 4250.5 | 4044.4 | 3897.6 | 2911.4 | 845.5  | 253.3  | 237.3  | 257.4  | 247.3  | 199.1  |
| 72.5° | 3184.9 | 3018.0 | 2863.2 | 2781.7 | 2144.4 | 591.1  | 213.1  | 233.2  | 268.4  | 260.4  | 203.1  |
| 75°   | 1693.0 | 1682.9 | 1626.6 | 1666.8 | 1327.0 | 386.0  | 188.0  | 218.2  | 256.4  | 238.3  | 189.0  |
| 77.5° | 341.8  | 351.9  | 413.2  | 407.2  | 428.3  | 215.1  | 160.9  | 187.0  | 198.0  | 174.9  | 153.8  |
| 80°   | 158.8  | 155.8  | 152.8  | 154.8  | 151.8  | 137.7  | 130.7  | 146.8  | 137.7  | 112.6  | 102.5  |
| 82.5° | 98.5   | 96.5   | 93.5   | 92.5   | 102.5  | 109.6  | 114.6  | 115.6  | 91.5   | 78.4   | 75.4   |
| 85°   | 47.3   | 47.3   | 46.2   | 48.3   | 60.3   | 89.5   | 96.5   | 85.5   | 61.3   | 56.3   | 53.3   |
| 87.5° | 9.0    | 9.0    | 10.1   | 9.0    | 12.1   | 21.1   | 24.1   | 28.1   | 23.1   | 24.1   | 27.1   |
| 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):**

|       | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|
| 0°    | 1000.3 | 1000.3 | 1000.3 |
| 2.5°  | 970.1  | 968.1  | 968.1  |
| 5°    | 950.0  | 949.0  | 949.0  |
| 7.5°  | 945.0  | 946.0  | 945.0  |
| 10°   | 964.1  | 963.1  | 967.1  |
| 12.5° | 1006.3 | 1009.3 | 1008.3 |
| 15°   | 1050.6 | 1052.6 | 1052.6 |
| 17.5° | 1063.6 | 1056.6 | 1055.6 |
| 20°   | 1029.5 | 1016.4 | 1013.4 |
| 22.5° | 965.1  | 941.0  | 942.0  |
| 25°   | 883.7  | 854.5  | 856.5  |
| 27.5° | 789.2  | 758.0  | 757.0  |
| 30°   | 675.6  | 641.4  | 624.3  |
| 32.5° | 538.9  | 497.6  | 497.6  |
| 35°   | 405.1  | 372.0  | 359.9  |
| 37.5° | 307.6  | 288.5  | 282.5  |
| 40°   | 256.4  | 247.3  | 245.3  |
| 42.5° | 233.2  | 230.2  | 229.2  |
| 45°   | 221.2  | 219.2  | 218.2  |
| 47.5° | 210.1  | 209.1  | 208.1  |
| 50°   | 202.1  | 201.1  | 200.1  |
| 52.5° | 195.0  | 193.0  | 192.0  |
| 55°   | 185.0  | 185.0  | 185.0  |
| 57.5° | 178.9  | 178.9  | 177.9  |
| 60°   | 172.9  | 171.9  | 171.9  |
| 62.5° | 167.9  | 165.9  | 166.9  |
| 65°   | 164.9  | 161.9  | 161.9  |
| 67°   | 162.9  | 156.8  | 156.8  |
| 67.5° | 162.9  | 154.8  | 154.8  |
| 70°   | 159.8  | 146.8  | 144.8  |
| 72.5° | 156.8  | 137.7  | 134.7  |
| 75°   | 148.8  | 130.7  | 127.7  |
| 77.5° | 127.7  | 116.6  | 114.6  |
| 80°   | 98.5   | 85.5   | 87.5   |
| 82.5° | 71.4   | 61.3   | 60.3   |
| 85°   | 51.3   | 44.2   | 44.2   |
| 87.5° | 27.1   | 23.1   | 24.1   |
| 90°   | 0.0    | 0.0    | 0.0    |

(END OF REPORT)