

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: P152163

Luminaire Tested: **VXS-F03-LED-E1-SL4-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P152163  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)  
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-SL4-8030  
Description: VISION SITE SMALL LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6174.7 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

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



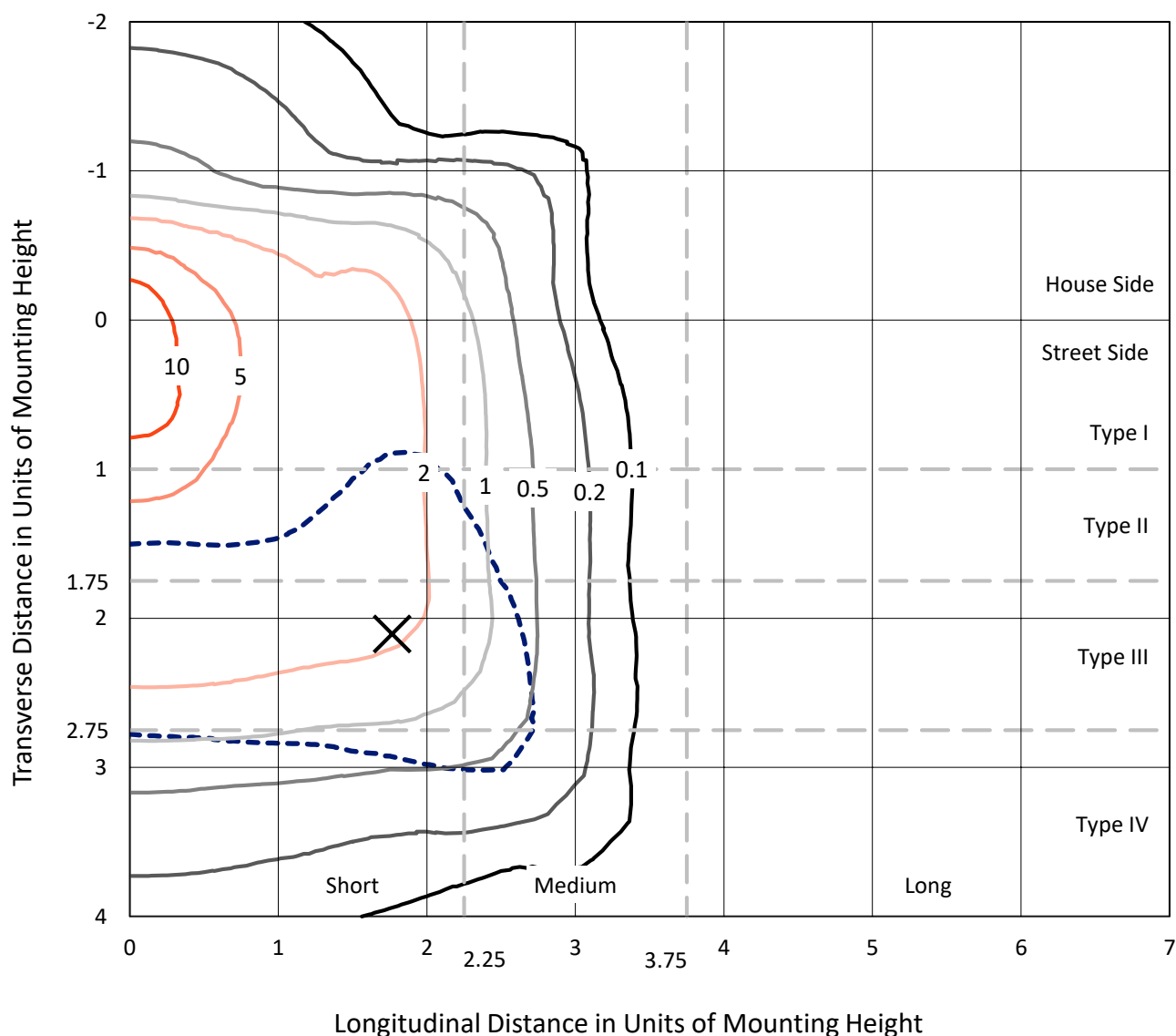
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

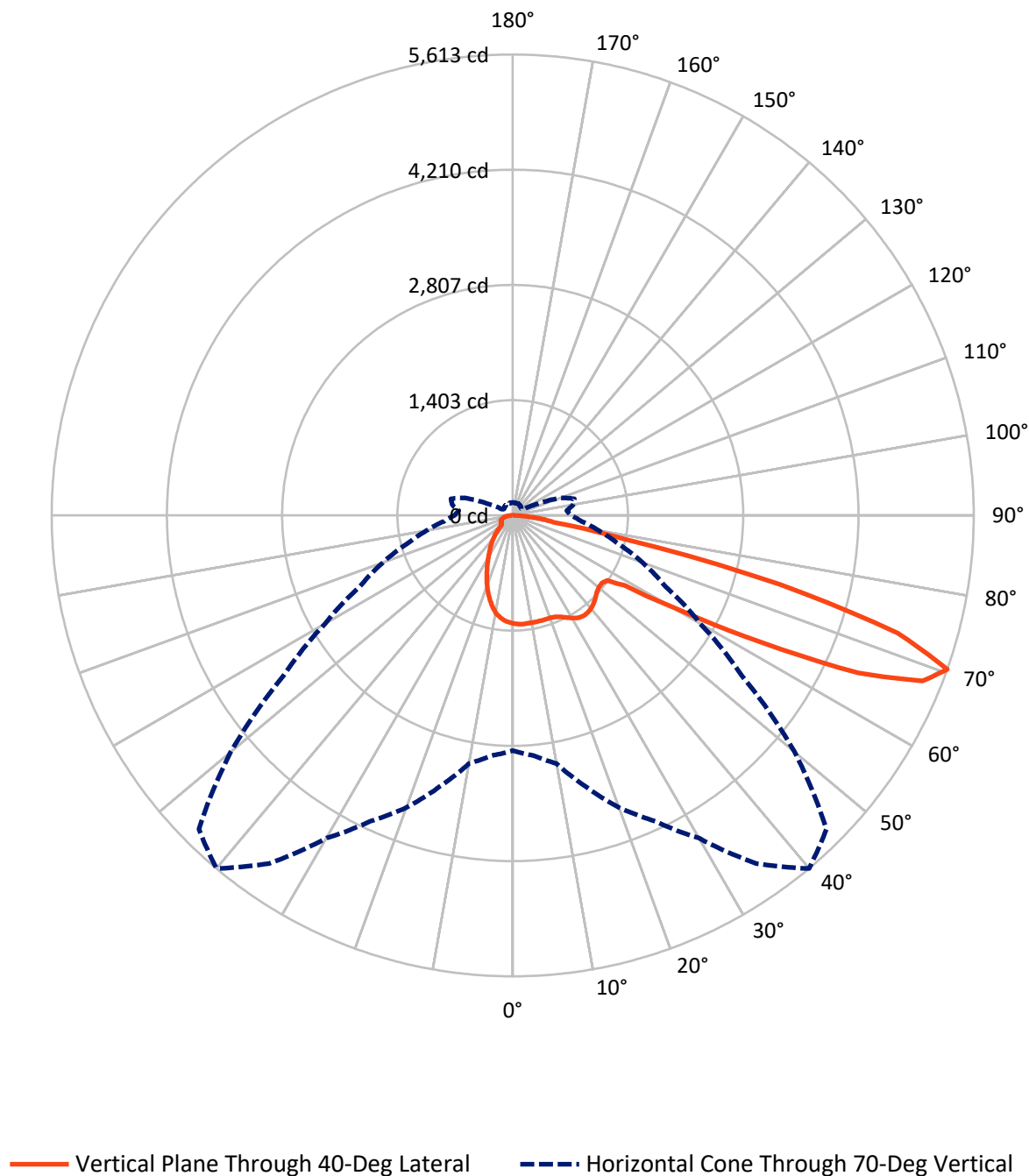


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc  
 Type IV - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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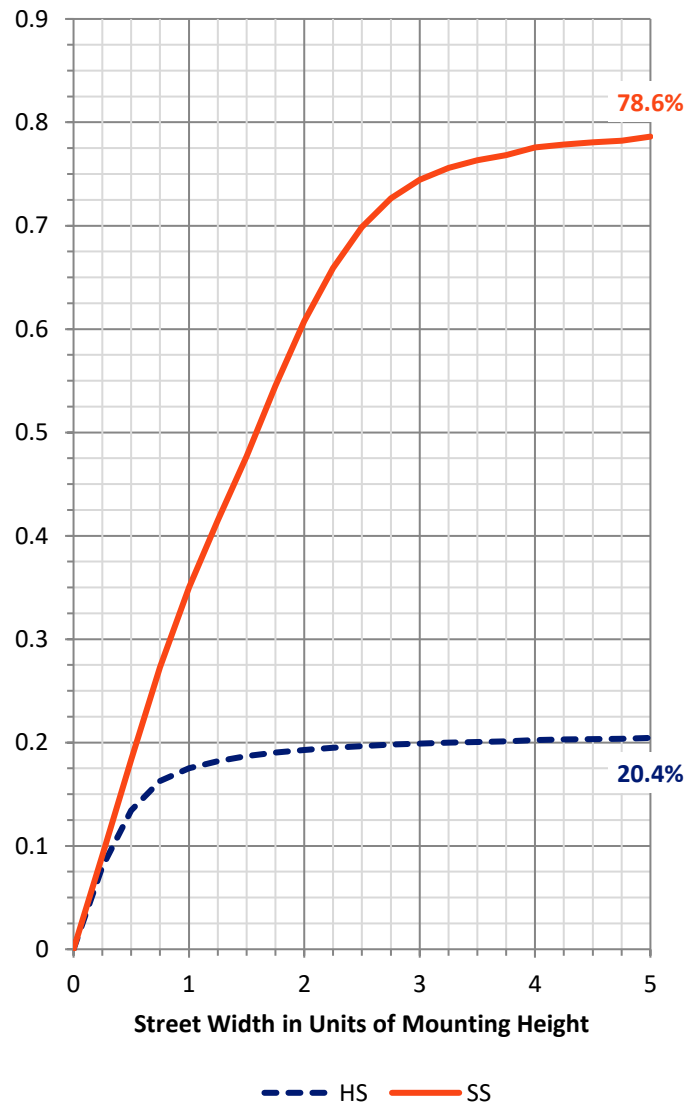
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1281.8   | 0.0    | 1281.8 |
|                    | % Fixture | 20.8     | 0.0    | 20.8   |
| <b>Street Side</b> | Lumens    | 4892.9   | 0.0    | 4892.9 |
|                    | % Fixture | 79.2     | 0.0    | 79.2   |
| <b>Total</b>       | Lumens    | 6174.7   | 0.0    | 6174.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 123.1  | 2.0       |
| 10°-20°   | 337.0  | 5.5       |
| 20°-30°   | 498.8  | 8.1       |
| 30°-40°   | 630.4  | 10.2      |
| 40°-50°   | 712.9  | 11.5      |
| 50°-60°   | 1014.5 | 16.4      |
| 60°-70°   | 1889.4 | 30.6      |
| 70°-80°   | 865.9  | 14.0      |
| 80°-90°   | 102.8  | 1.7       |
| 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°    | 6174.7 | 100.0     |
| 0°-180°   | 6174.7 | 100.0     |

**Coefficient of Utilization**



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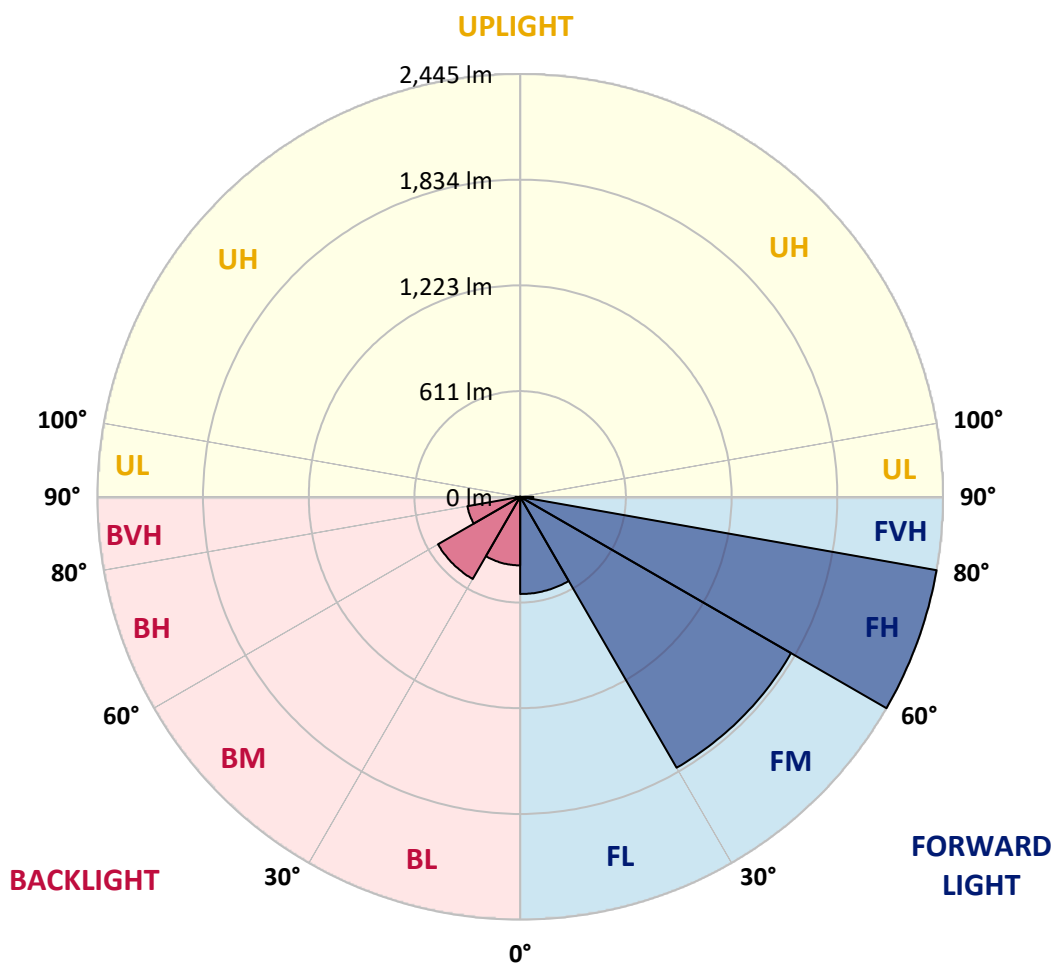
CATALOG NUMBER: VXS-F03-LED-E1-SL4-8030

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 562.3  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 1809.0 | 29.3      |                         |      |         |
| FH   | (60°-80°)   | 2445.4 | 39.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 76.3   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 396.6  | 6.4       | B1/500                  |      |         |
| BM   | (30°-60°)   | 548.8  | 8.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 309.9  | 5.0       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 26.5   | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 |
| 2.5°  | 1337.7 | 1341.2 | 1337.0 | 1336.4 | 1336.4 | 1335.6 | 1331.5 | 1330.8 | 1325.2 | 1325.9 | 1327.3 |
| 5°    | 1347.5 | 1348.9 | 1346.1 | 1345.4 | 1344.0 | 1341.2 | 1337.7 | 1333.6 | 1329.3 | 1325.2 | 1321.7 |
| 7.5°  | 1357.2 | 1355.9 | 1353.8 | 1353.8 | 1351.7 | 1347.5 | 1340.5 | 1334.9 | 1325.9 | 1321.0 | 1314.7 |
| 10°   | 1371.2 | 1369.1 | 1366.3 | 1364.9 | 1361.5 | 1355.1 | 1345.4 | 1337.7 | 1326.6 | 1316.8 | 1306.4 |
| 12.5° | 1384.5 | 1383.7 | 1379.6 | 1377.4 | 1371.9 | 1365.6 | 1353.8 | 1341.9 | 1327.3 | 1311.9 | 1298.0 |
| 15°   | 1408.1 | 1405.3 | 1401.1 | 1397.0 | 1387.9 | 1379.6 | 1361.5 | 1347.5 | 1326.6 | 1306.4 | 1284.8 |
| 17.5° | 1449.2 | 1444.4 | 1440.1 | 1431.1 | 1419.9 | 1405.3 | 1378.9 | 1355.1 | 1326.6 | 1297.3 | 1273.0 |
| 20°   | 1524.5 | 1514.0 | 1508.4 | 1496.6 | 1477.1 | 1450.6 | 1409.5 | 1371.2 | 1328.7 | 1291.1 | 1258.3 |
| 22.5° | 1609.4 | 1602.5 | 1594.8 | 1587.2 | 1556.5 | 1518.2 | 1462.5 | 1405.3 | 1341.2 | 1288.3 | 1246.4 |
| 25°   | 1704.9 | 1695.9 | 1691.7 | 1678.4 | 1649.8 | 1606.0 | 1530.1 | 1450.6 | 1369.7 | 1299.4 | 1246.4 |
| 27.5° | 1789.9 | 1787.2 | 1786.4 | 1771.1 | 1743.9 | 1692.3 | 1602.5 | 1507.0 | 1408.8 | 1322.4 | 1256.9 |
| 30°   | 1867.3 | 1864.5 | 1863.1 | 1854.7 | 1823.3 | 1762.1 | 1664.5 | 1557.2 | 1451.3 | 1354.4 | 1276.4 |
| 32.5° | 1949.4 | 1940.4 | 1936.3 | 1920.2 | 1884.7 | 1813.0 | 1701.5 | 1589.9 | 1484.8 | 1385.8 | 1298.0 |
| 35°   | 2016.4 | 2008.7 | 2000.3 | 1977.3 | 1927.2 | 1842.2 | 1717.4 | 1601.1 | 1498.0 | 1403.2 | 1309.1 |
| 37.5° | 2065.1 | 2057.4 | 2045.6 | 2016.4 | 1954.3 | 1851.9 | 1716.8 | 1597.6 | 1493.1 | 1400.4 | 1311.3 |
| 40°   | 2086.7 | 2079.1 | 2066.5 | 2029.6 | 1959.2 | 1846.3 | 1703.5 | 1581.6 | 1478.4 | 1385.8 | 1302.9 |
| 42.5° | 2078.3 | 2072.7 | 2056.8 | 2021.2 | 1943.9 | 1821.2 | 1677.0 | 1551.6 | 1450.6 | 1362.1 | 1284.0 |
| 45°   | 2046.3 | 2042.2 | 2026.8 | 1989.2 | 1909.0 | 1780.8 | 1638.0 | 1514.0 | 1417.2 | 1332.8 | 1259.0 |
| 47.5° | 1998.2 | 1996.9 | 1981.6 | 1944.6 | 1865.2 | 1740.4 | 1597.6 | 1477.1 | 1383.7 | 1304.2 | 1238.1 |
| 50°   | 1945.3 | 1938.3 | 1930.7 | 1896.5 | 1824.0 | 1705.6 | 1568.4 | 1454.1 | 1364.9 | 1293.9 | 1229.0 |
| 52.5° | 1911.8 | 1909.7 | 1902.8 | 1872.1 | 1802.5 | 1685.4 | 1555.1 | 1445.7 | 1363.5 | 1291.7 | 1224.1 |
| 55°   | 2208.6 | 2213.6 | 2149.4 | 2016.4 | 1899.3 | 1741.1 | 1594.8 | 1488.2 | 1397.6 | 1325.2 | 1275.8 |
| 57.5° | 3266.9 | 3245.4 | 3135.3 | 2871.3 | 2573.1 | 2179.4 | 1895.9 | 1723.7 | 1611.5 | 1624.0 | 1649.2 |
| 60°   | 3806.2 | 3802.1 | 3781.9 | 3679.5 | 3480.9 | 3181.2 | 2848.9 | 2467.9 | 2346.6 | 2359.8 | 2369.6 |
| 62.5° | 4047.4 | 4053.6 | 4068.9 | 4030.6 | 3978.3 | 3891.3 | 3725.5 | 3572.1 | 3409.8 | 3349.2 | 3186.8 |
| 65°   | 4158.9 | 4169.9 | 4204.8 | 4226.4 | 4246.6 | 4262.0 | 4327.5 | 4507.2 | 4625.6 | 4404.0 | 3888.5 |
| 67.5° | 3928.2 | 3981.9 | 4096.8 | 4209.0 | 4309.3 | 4452.1 | 4673.7 | 5091.1 | 5381.6 | 5109.1 | 4361.6 |
| 70°   | 2863.6 | 2936.8 | 3068.4 | 3415.4 | 3786.0 | 4110.1 | 4539.3 | 5174.6 | 5613.0 | 5402.5 | 4478.7 |
| 72.5° | 1795.4 | 1815.6 | 1874.2 | 2001.8 | 2276.9 | 2692.8 | 3443.3 | 4396.4 | 4902.3 | 4734.3 | 3785.4 |
| 75°   | 1139.2 | 1146.1 | 1144.0 | 1173.3 | 1220.0 | 1310.6 | 1607.4 | 2596.7 | 3358.2 | 3096.3 | 2109.7 |
| 77.5° | 678.7  | 689.1  | 693.3  | 702.3  | 724.6  | 756.7  | 781.0  | 883.4  | 1408.1 | 1367.0 | 765.7  |
| 80°   | 568.5  | 576.9  | 569.9  | 567.9  | 553.9  | 544.1  | 556.0  | 544.1  | 505.2  | 486.3  | 448.0  |
| 82.5° | 301.0  | 300.3  | 298.2  | 318.4  | 359.5  | 391.6  | 416.0  | 410.4  | 371.4  | 316.3  | 268.3  |
| 85°   | 165.1  | 170.7  | 170.7  | 177.6  | 171.4  | 172.1  | 177.6  | 187.5  | 173.5  | 144.9  | 118.4  |
| 87.5° | 13.9   | 21.6   | 17.4   | 21.6   | 29.2   | 20.9   | 20.2   | 20.2   | 17.4   | 12.5   | 11.2   |
| 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°    | 95°    | 100°   | 105°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 |
| 2.5°  | 1323.8 | 1322.4 | 1319.6 | 1317.5 | 1317.5 | 1314.1 | 1311.9 | 1310.6 | 1309.8 | 1307.0 | 1307.0 |
| 5°    | 1319.6 | 1314.7 | 1309.8 | 1306.4 | 1304.2 | 1300.8 | 1295.2 | 1292.4 | 1288.9 | 1286.2 | 1284.8 |
| 7.5°  | 1310.6 | 1301.5 | 1293.9 | 1288.3 | 1281.3 | 1275.8 | 1268.7 | 1262.5 | 1256.2 | 1253.5 | 1252.0 |
| 10°   | 1296.6 | 1284.8 | 1273.0 | 1262.5 | 1252.7 | 1243.0 | 1233.9 | 1224.9 | 1217.2 | 1211.6 | 1206.0 |
| 12.5° | 1283.4 | 1265.3 | 1249.9 | 1234.6 | 1219.3 | 1207.5 | 1194.9 | 1181.7 | 1170.5 | 1160.1 | 1157.3 |
| 15°   | 1265.3 | 1244.4 | 1224.9 | 1206.0 | 1187.3 | 1167.8 | 1152.4 | 1137.7 | 1119.7 | 1107.8 | 1098.8 |
| 17.5° | 1248.6 | 1223.4 | 1199.8 | 1177.5 | 1154.5 | 1134.3 | 1111.3 | 1091.8 | 1073.7 | 1055.5 | 1042.3 |
| 20°   | 1230.5 | 1203.2 | 1178.1 | 1153.1 | 1128.0 | 1102.3 | 1075.8 | 1050.7 | 1028.4 | 1006.7 | 985.2  |
| 22.5° | 1214.4 | 1186.5 | 1162.2 | 1135.0 | 1107.2 | 1077.8 | 1047.2 | 1015.9 | 990.1  | 962.2  | 937.1  |
| 25°   | 1204.7 | 1174.0 | 1148.9 | 1122.5 | 1091.8 | 1059.7 | 1024.9 | 988.0  | 956.6  | 924.6  | 894.6  |
| 27.5° | 1204.7 | 1165.0 | 1139.2 | 1112.6 | 1081.3 | 1047.2 | 1008.9 | 968.5  | 933.0  | 897.4  | 860.5  |
| 30°   | 1215.1 | 1166.3 | 1131.5 | 1103.6 | 1071.6 | 1034.6 | 992.1  | 949.6  | 910.7  | 868.8  | 833.3  |
| 32.5° | 1224.9 | 1169.1 | 1125.9 | 1090.4 | 1053.5 | 1017.2 | 974.0  | 928.7  | 885.6  | 845.8  | 808.2  |
| 35°   | 1231.1 | 1169.1 | 1115.4 | 1070.2 | 1028.4 | 992.8  | 950.4  | 905.1  | 861.1  | 822.2  | 787.4  |
| 37.5° | 1231.8 | 1163.5 | 1098.8 | 1047.2 | 1003.3 | 966.3  | 926.0  | 883.4  | 841.7  | 805.4  | 776.2  |
| 40°   | 1224.9 | 1152.4 | 1082.1 | 1022.8 | 976.8  | 939.2  | 902.3  | 863.9  | 826.3  | 796.4  | 771.3  |
| 42.5° | 1212.3 | 1140.5 | 1066.0 | 1003.3 | 955.2  | 916.2  | 882.1  | 849.3  | 816.6  | 790.8  | 769.8  |
| 45°   | 1193.5 | 1124.6 | 1051.4 | 991.5  | 944.0  | 903.0  | 869.5  | 842.4  | 814.5  | 792.8  | 772.0  |
| 47.5° | 1176.8 | 1119.0 | 1056.3 | 999.1  | 949.6  | 907.2  | 873.1  | 850.1  | 828.4  | 813.8  | 785.2  |
| 50°   | 1173.3 | 1116.2 | 1058.3 | 1005.4 | 955.2  | 912.0  | 882.1  | 870.3  | 863.9  | 854.9  | 811.0  |
| 52.5° | 1163.5 | 1115.4 | 1073.7 | 1044.5 | 1012.3 | 992.1  | 960.8  | 971.9  | 965.0  | 933.0  | 853.5  |
| 55°   | 1266.0 | 1279.9 | 1319.0 | 1374.6 | 1426.2 | 1438.0 | 1434.6 | 1421.3 | 1351.0 | 1162.2 | 956.0  |
| 57.5° | 1740.4 | 1819.2 | 1893.1 | 1925.8 | 1921.6 | 1884.7 | 1858.2 | 1804.6 | 1702.8 | 1472.8 | 1157.9 |
| 60°   | 2399.6 | 2412.1 | 2373.1 | 2315.2 | 2217.7 | 2136.2 | 2049.1 | 1948.8 | 1801.0 | 1576.1 | 1282.0 |
| 62.5° | 3006.4 | 2837.8 | 2664.4 | 2501.2 | 2352.8 | 2223.3 | 2102.1 | 1962.0 | 1769.7 | 1534.9 | 1266.0 |
| 65°   | 3434.9 | 3078.1 | 2804.4 | 2570.3 | 2360.5 | 2179.4 | 2028.2 | 1846.3 | 1629.6 | 1417.8 | 1173.3 |
| 67.5° | 3655.8 | 3108.8 | 2688.7 | 2362.6 | 2065.1 | 1814.3 | 1613.0 | 1436.0 | 1275.0 | 1182.4 | 1026.9 |
| 70°   | 3409.1 | 2638.5 | 2053.3 | 1684.7 | 1328.7 | 1065.3 | 841.7  | 706.5  | 659.8  | 747.6  | 777.5  |
| 72.5° | 2540.3 | 1717.4 | 1221.3 | 944.8  | 723.9  | 576.9  | 442.4  | 347.7  | 282.9  | 296.8  | 385.3  |
| 75°   | 1201.1 | 741.3  | 523.9  | 398.5  | 317.0  | 262.7  | 214.6  | 196.5  | 164.5  | 136.6  | 128.2  |
| 77.5° | 467.5  | 340.7  | 281.5  | 206.2  | 146.3  | 117.7  | 100.3  | 96.9   | 99.0   | 96.2   | 94.7   |
| 80°   | 356.1  | 241.0  | 151.2  | 110.8  | 95.4   | 84.4   | 74.5   | 71.8   | 73.2   | 76.7   | 80.1   |
| 82.5° | 198.5  | 124.0  | 92.0   | 80.1   | 71.8   | 61.3   | 55.8   | 51.6   | 52.2   | 56.5   | 64.1   |
| 85°   | 76.7   | 59.9   | 55.0   | 53.0   | 49.4   | 39.7   | 34.1   | 34.8   | 39.7   | 47.4   | 47.4   |
| 87.5° | 8.4    | 8.4    | 11.2   | 8.4    | 8.4    | 8.4    | 7.7    | 9.0    | 9.7    | 12.5   | 14.6   |
| 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):**

|       | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   | 160°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 | 1317.5 |
| 2.5°  | 1305.7 | 1305.7 | 1305.7 | 1304.2 | 1305.0 | 1302.2 | 1302.2 | 1300.1 | 1303.6 | 1301.5 | 1300.8 |
| 5°    | 1285.5 | 1284.8 | 1282.0 | 1282.0 | 1282.0 | 1282.0 | 1284.0 | 1278.5 | 1282.7 | 1282.7 | 1280.6 |
| 7.5°  | 1251.3 | 1251.3 | 1243.6 | 1247.9 | 1246.4 | 1248.6 | 1251.3 | 1248.6 | 1252.7 | 1255.5 | 1253.5 |
| 10°   | 1203.9 | 1203.9 | 1197.7 | 1202.6 | 1200.5 | 1205.4 | 1210.3 | 1207.5 | 1210.3 | 1214.4 | 1215.9 |
| 12.5° | 1151.7 | 1148.9 | 1143.3 | 1145.4 | 1145.4 | 1148.2 | 1150.3 | 1153.8 | 1157.3 | 1162.9 | 1165.6 |
| 15°   | 1091.1 | 1086.9 | 1079.9 | 1079.9 | 1075.8 | 1077.2 | 1081.3 | 1082.7 | 1089.7 | 1097.4 | 1106.4 |
| 17.5° | 1029.1 | 1018.7 | 1011.0 | 1001.9 | 994.9  | 1000.5 | 1005.4 | 1008.9 | 1014.4 | 1026.3 | 1032.5 |
| 20°   | 970.6  | 949.6  | 935.0  | 923.2  | 915.5  | 919.0  | 925.3  | 929.4  | 934.3  | 937.1  | 939.2  |
| 22.5° | 912.7  | 889.0  | 868.8  | 854.2  | 841.7  | 845.2  | 842.4  | 840.3  | 843.7  | 834.7  | 834.0  |
| 25°   | 862.6  | 834.7  | 807.6  | 790.1  | 774.8  | 769.8  | 755.2  | 751.8  | 742.1  | 734.4  | 728.8  |
| 27.5° | 826.3  | 790.1  | 760.1  | 739.9  | 715.5  | 697.4  | 678.7  | 659.8  | 649.3  | 636.8  | 630.6  |
| 30°   | 797.7  | 759.5  | 723.9  | 689.7  | 657.7  | 629.8  | 604.8  | 580.4  | 563.6  | 545.5  | 533.7  |
| 32.5° | 771.3  | 735.8  | 692.5  | 645.9  | 602.7  | 571.3  | 538.5  | 510.7  | 484.2  | 460.5  | 443.1  |
| 35°   | 753.2  | 713.5  | 658.4  | 601.2  | 552.5  | 515.5  | 480.7  | 441.0  | 409.0  | 378.3  | 359.5  |
| 37.5° | 743.4  | 694.6  | 627.0  | 563.6  | 509.3  | 467.5  | 424.4  | 378.3  | 339.3  | 310.8  | 282.2  |
| 40°   | 735.8  | 675.9  | 599.2  | 530.3  | 473.1  | 422.9  | 372.7  | 318.4  | 275.2  | 245.3  | 223.0  |
| 42.5° | 727.4  | 654.9  | 574.8  | 503.7  | 440.3  | 381.8  | 321.2  | 263.3  | 222.3  | 201.3  | 191.6  |
| 45°   | 718.3  | 636.8  | 551.8  | 478.7  | 408.3  | 337.2  | 267.6  | 213.9  | 189.5  | 182.6  | 182.6  |
| 47.5° | 716.3  | 625.0  | 535.1  | 454.3  | 372.0  | 285.7  | 218.0  | 184.7  | 177.6  | 179.1  | 181.9  |
| 50°   | 724.6  | 621.5  | 520.4  | 425.7  | 323.9  | 231.3  | 184.7  | 173.5  | 174.9  | 179.1  | 183.2  |
| 52.5° | 744.8  | 624.2  | 505.2  | 386.0  | 266.8  | 190.9  | 170.7  | 170.1  | 174.2  | 180.4  | 184.7  |
| 55°   | 779.0  | 624.2  | 475.9  | 326.7  | 213.2  | 171.4  | 165.8  | 168.6  | 174.2  | 179.8  | 183.2  |
| 57.5° | 852.1  | 618.0  | 424.4  | 261.2  | 178.3  | 164.5  | 164.5  | 167.9  | 172.7  | 178.3  | 181.1  |
| 60°   | 939.2  | 609.6  | 351.8  | 202.1  | 160.9  | 158.9  | 163.7  | 167.9  | 172.1  | 177.0  | 179.8  |
| 62.5° | 944.8  | 588.1  | 278.7  | 167.3  | 151.9  | 155.3  | 163.0  | 168.6  | 170.1  | 173.5  | 177.0  |
| 65°   | 868.1  | 512.7  | 221.6  | 149.8  | 147.7  | 153.3  | 160.9  | 165.1  | 165.8  | 167.3  | 170.7  |
| 67.5° | 760.1  | 418.0  | 179.1  | 141.5  | 143.5  | 149.8  | 154.0  | 157.5  | 159.6  | 163.0  | 163.7  |
| 70°   | 624.2  | 335.9  | 153.3  | 133.1  | 135.1  | 142.2  | 145.6  | 149.1  | 153.3  | 157.5  | 155.3  |
| 72.5° | 442.4  | 261.2  | 134.5  | 124.0  | 126.8  | 133.1  | 137.3  | 140.0  | 143.5  | 147.7  | 144.9  |
| 75°   | 188.1  | 182.6  | 116.4  | 112.1  | 116.4  | 120.5  | 124.8  | 128.9  | 132.3  | 134.5  | 134.5  |
| 77.5° | 96.2   | 107.3  | 100.3  | 100.3  | 103.1  | 107.3  | 110.8  | 114.9  | 117.1  | 119.2  | 122.0  |
| 80°   | 81.6   | 82.9   | 84.4   | 87.0   | 89.8   | 94.1   | 97.5   | 101.0  | 101.8  | 102.4  | 103.8  |
| 82.5° | 67.6   | 70.4   | 71.8   | 76.0   | 78.0   | 79.4   | 81.6   | 81.6   | 82.9   | 82.9   | 80.8   |
| 85°   | 48.8   | 52.2   | 54.3   | 55.0   | 54.3   | 55.0   | 55.8   | 57.1   | 60.6   | 60.6   | 57.8   |
| 87.5° | 13.9   | 13.3   | 16.7   | 17.4   | 18.9   | 21.6   | 24.4   | 29.2   | 30.7   | 32.0   | 32.0   |
| 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°   | 170°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|
| 0°    | 1317.5 | 1317.5 | 1317.5 | 1317.5 |
| 2.5°  | 1300.1 | 1301.5 | 1298.8 | 1299.4 |
| 5°    | 1280.6 | 1283.4 | 1279.9 | 1284.0 |
| 7.5°  | 1255.5 | 1259.7 | 1259.0 | 1258.3 |
| 10°   | 1219.3 | 1224.9 | 1224.9 | 1226.9 |
| 12.5° | 1173.3 | 1176.8 | 1179.6 | 1180.9 |
| 15°   | 1111.3 | 1117.5 | 1121.0 | 1121.0 |
| 17.5° | 1036.8 | 1040.9 | 1043.0 | 1040.2 |
| 20°   | 942.0  | 940.6  | 941.2  | 934.3  |
| 22.5° | 832.6  | 834.7  | 828.4  | 829.8  |
| 25°   | 725.3  | 721.9  | 724.6  | 720.4  |
| 27.5° | 621.5  | 622.2  | 614.5  | 618.0  |
| 30°   | 522.6  | 519.1  | 509.3  | 514.2  |
| 32.5° | 427.2  | 418.0  | 407.6  | 401.3  |
| 35°   | 337.2  | 323.3  | 318.4  | 316.3  |
| 37.5° | 264.8  | 249.4  | 244.6  | 239.0  |
| 40°   | 210.4  | 204.9  | 202.8  | 204.1  |
| 42.5° | 188.8  | 188.8  | 190.3  | 190.9  |
| 45°   | 183.2  | 185.3  | 187.5  | 188.1  |
| 47.5° | 183.9  | 186.0  | 188.8  | 189.5  |
| 50°   | 185.3  | 187.5  | 189.5  | 190.3  |
| 52.5° | 186.0  | 186.0  | 187.5  | 188.1  |
| 55°   | 184.7  | 183.9  | 184.7  | 185.3  |
| 57.5° | 181.9  | 180.4  | 181.1  | 183.2  |
| 60°   | 180.4  | 178.3  | 179.8  | 181.1  |
| 62.5° | 177.0  | 176.3  | 177.6  | 178.3  |
| 65°   | 169.3  | 170.1  | 172.1  | 172.1  |
| 67.5° | 162.4  | 163.0  | 163.7  | 164.5  |
| 70°   | 154.0  | 154.7  | 156.1  | 156.8  |
| 72.5° | 144.2  | 147.0  | 149.1  | 151.9  |
| 75°   | 136.6  | 139.4  | 143.5  | 146.3  |
| 77.5° | 123.3  | 125.4  | 130.3  | 133.8  |
| 80°   | 104.6  | 103.8  | 104.6  | 106.6  |
| 82.5° | 80.1   | 80.1   | 79.4   | 78.8   |
| 85°   | 56.5   | 55.8   | 53.7   | 53.7   |
| 87.5° | 30.7   | 29.9   | 29.2   | 27.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)