

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: STREETWORKS

Report Number: P233483

Luminaire Tested: **VERD-C01-D-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233483  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-10)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C01-D-U-T2  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1230mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7154 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

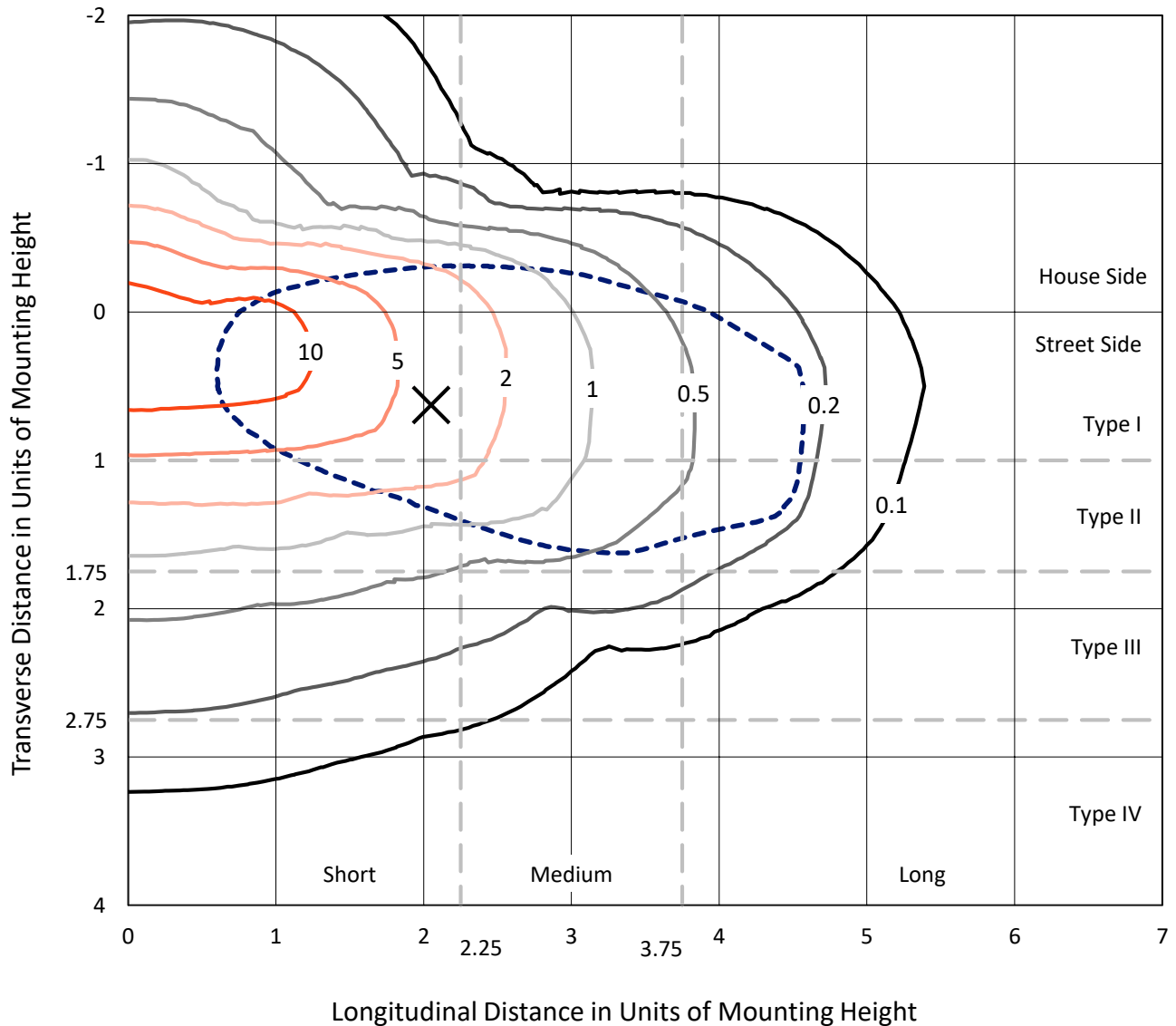
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

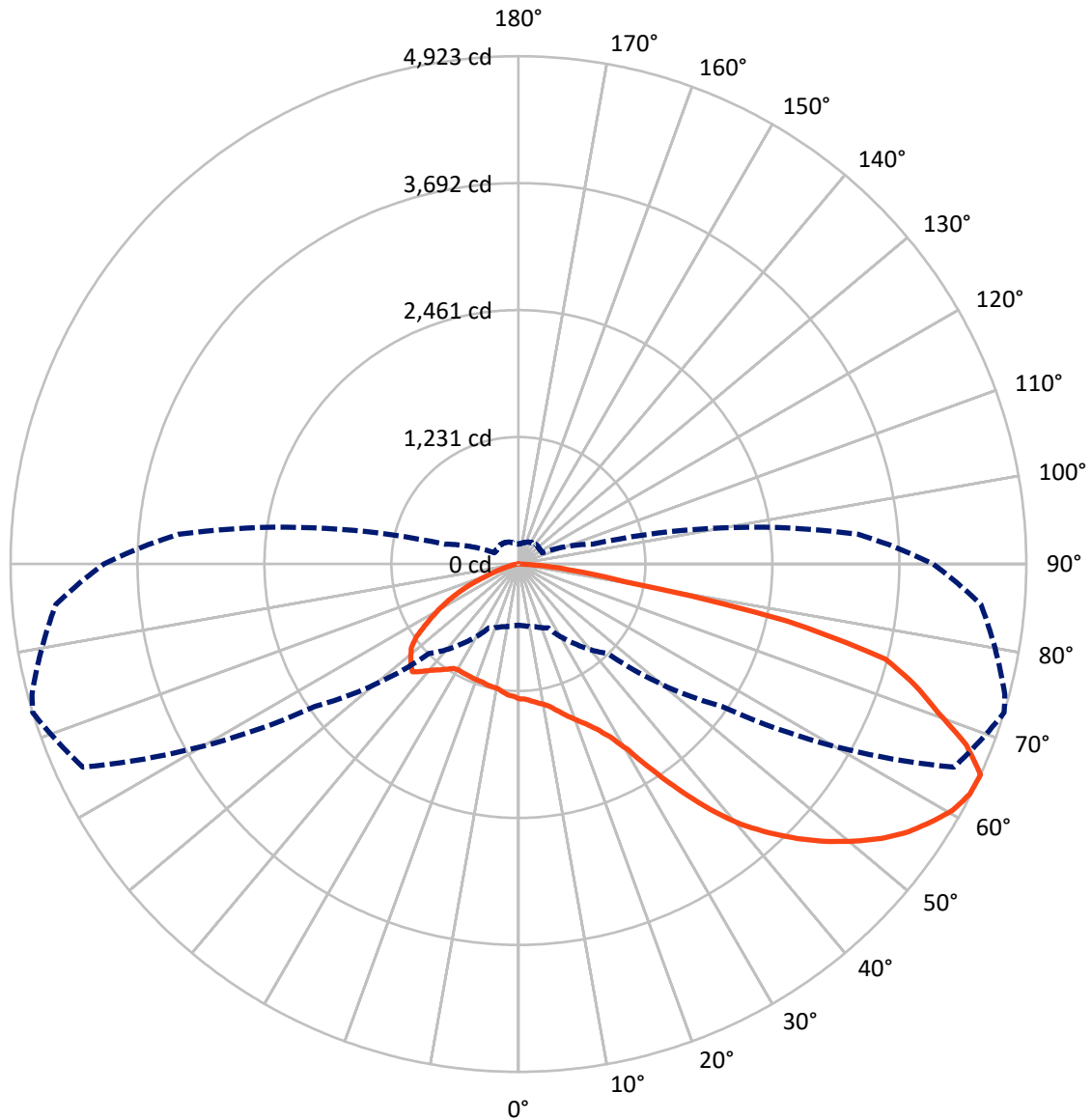
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1833.9   | 0.0    | 1833.9 |
|                    | % Fixture | 25.6     | 0.0    | 25.6   |
| <b>Street Side</b> | Lumens    | 5320.1   | 0.0    | 5320.1 |
|                    | % Fixture | 74.4     | 0.0    | 74.4   |
| <b>Total</b>       | Lumens    | 7154.0   | 0.0    | 7154.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 124.8  | 1.7       |
| 10°-20°   | 377.4  | 5.3       |
| 20°-30°   | 633.1  | 8.8       |
| 30°-40°   | 928.4  | 13.0      |
| 40°-50°   | 1254.8 | 17.5      |
| 50°-60°   | 1453.6 | 20.3      |
| 60°-70°   | 1419.9 | 19.8      |
| 70°-80°   | 852.7  | 11.9      |
| 80°-90°   | 109.2  | 1.5       |
| 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°    | 7154.0 | 100.0     |
| 0°-180°   | 7154.0 | 100.0     |



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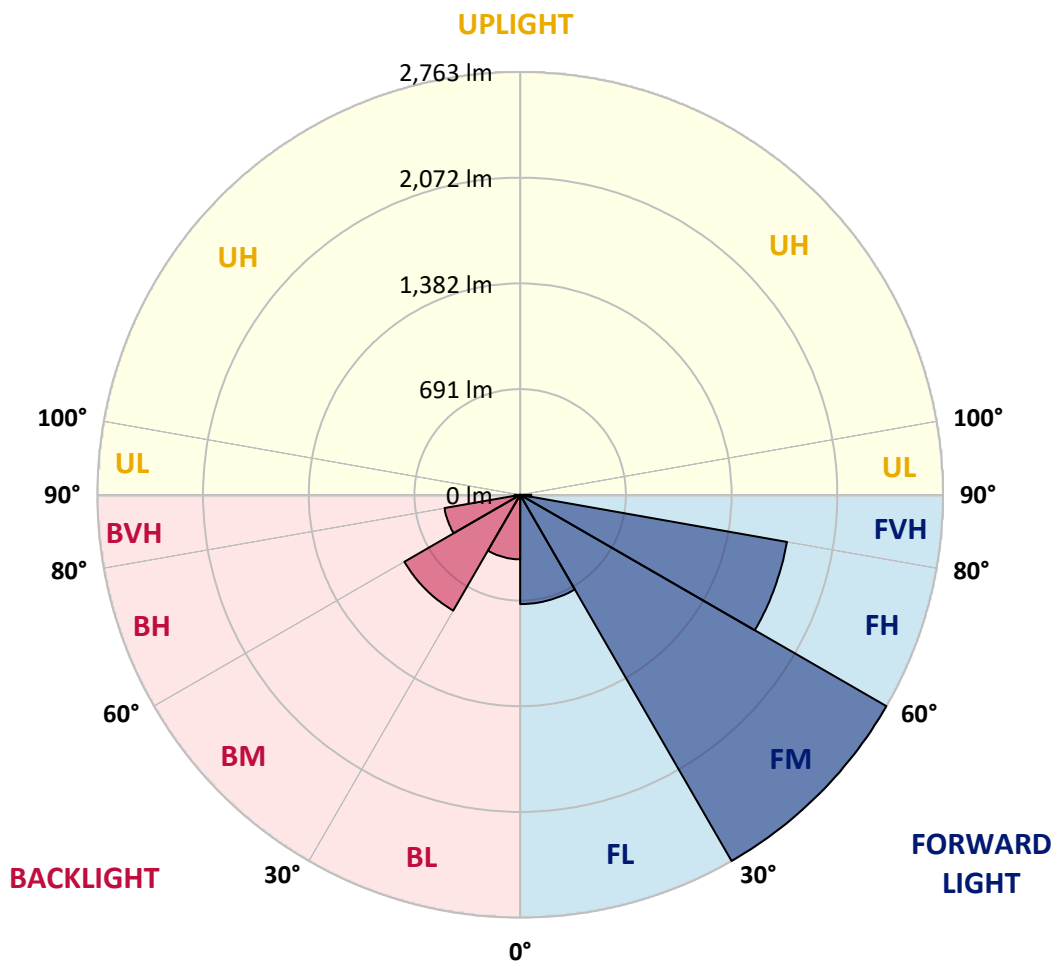
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 713.8  | 10.0      |                         |      |         |
| FM   | (30°-60°)   | 2763.1 | 38.6      |                         |      |         |
| FH   | (60°-80°)   | 1770.5 | 24.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 72.7   | 1.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 421.5  | 5.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 873.8  | 12.2      | B1/1000                 |      |         |
| BH   | (60°-80°)   | 502.1  | 7.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 36.5   | 0.5       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 73°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 |
| 2.5°  | 1388.6 | 1393.8 | 1388.0 | 1371.1 | 1362.7 | 1356.8 | 1339.3 | 1323.7 | 1311.4 | 1310.1 | 1298.4 |
| 5°    | 1441.9 | 1449.7 | 1440.0 | 1418.5 | 1410.1 | 1397.7 | 1378.3 | 1356.8 | 1334.7 | 1330.2 | 1306.8 |
| 7.5°  | 1509.5 | 1510.7 | 1505.6 | 1484.1 | 1466.6 | 1440.6 | 1406.8 | 1384.1 | 1358.8 | 1351.6 | 1314.6 |
| 10°   | 1566.6 | 1566.0 | 1559.5 | 1538.7 | 1521.1 | 1498.4 | 1451.0 | 1414.0 | 1384.1 | 1375.0 | 1323.7 |
| 12.5° | 1621.2 | 1619.9 | 1613.4 | 1591.9 | 1569.9 | 1551.0 | 1515.3 | 1465.3 | 1425.0 | 1413.3 | 1349.7 |
| 15°   | 1688.7 | 1685.5 | 1675.1 | 1646.5 | 1629.0 | 1606.9 | 1580.9 | 1530.9 | 1484.8 | 1468.5 | 1387.3 |
| 17.5° | 1740.7 | 1740.0 | 1732.2 | 1708.2 | 1687.4 | 1663.4 | 1639.4 | 1600.4 | 1550.4 | 1532.2 | 1424.4 |
| 20°   | 1770.6 | 1768.0 | 1766.0 | 1747.2 | 1742.0 | 1729.0 | 1694.6 | 1664.7 | 1614.7 | 1595.8 | 1465.9 |
| 22.5° | 1802.4 | 1803.0 | 1803.7 | 1793.9 | 1808.9 | 1797.8 | 1772.5 | 1736.1 | 1685.5 | 1664.0 | 1524.4 |
| 25°   | 1809.5 | 1810.8 | 1823.8 | 1845.2 | 1863.4 | 1883.6 | 1865.4 | 1829.7 | 1775.1 | 1752.4 | 1604.3 |
| 27.5° | 1789.4 | 1794.6 | 1833.6 | 1869.9 | 1934.2 | 1960.2 | 1957.0 | 1955.0 | 1899.2 | 1876.4 | 1714.0 |
| 30°   | 1807.6 | 1807.6 | 1834.2 | 1896.6 | 1977.7 | 2045.9 | 2060.9 | 2102.4 | 2085.6 | 2069.3 | 1898.5 |
| 32.5° | 1753.0 | 1762.8 | 1810.2 | 1897.2 | 2025.8 | 2125.2 | 2192.7 | 2308.3 | 2375.2 | 2361.6 | 2159.6 |
| 35°   | 1650.4 | 1663.4 | 1732.9 | 1866.0 | 2049.8 | 2218.7 | 2339.5 | 2562.3 | 2691.6 | 2707.8 | 2474.0 |
| 37.5° | 1571.2 | 1582.2 | 1669.2 | 1817.3 | 2058.9 | 2306.4 | 2509.0 | 2848.1 | 3015.0 | 3006.6 | 2740.3 |
| 40°   | 1474.4 | 1493.9 | 1581.5 | 1759.5 | 2037.5 | 2381.1 | 2692.8 | 3110.5 | 3315.7 | 3276.8 | 2993.6 |
| 42.5° | 1387.3 | 1404.2 | 1477.6 | 1667.3 | 2007.6 | 2423.3 | 2859.1 | 3380.7 | 3560.6 | 3529.4 | 3233.2 |
| 45°   | 1295.1 | 1310.1 | 1378.3 | 1556.9 | 1938.1 | 2444.1 | 3015.0 | 3639.2 | 3795.7 | 3760.6 | 3455.4 |
| 47.5° | 1189.2 | 1209.4 | 1290.6 | 1452.9 | 1836.2 | 2431.1 | 3128.7 | 3863.9 | 4019.1 | 3993.2 | 3639.2 |
| 50°   | 922.3  | 943.1  | 1155.5 | 1355.5 | 1694.6 | 2377.2 | 3230.6 | 4088.6 | 4221.1 | 4196.5 | 3801.6 |
| 52.5° | 837.2  | 846.3  | 912.6  | 1243.8 | 1547.1 | 2270.7 | 3294.3 | 4273.7 | 4417.9 | 4393.3 | 3954.8 |
| 55°   | 785.3  | 791.7  | 828.8  | 1015.8 | 1421.8 | 2099.2 | 3302.1 | 4466.0 | 4583.6 | 4551.1 | 4117.9 |
| 57.5° | 732.0  | 739.1  | 780.1  | 876.2  | 1295.8 | 1831.0 | 3219.6 | 4629.0 | 4718.0 | 4682.9 | 4273.7 |
| 60°   | 687.2  | 691.1  | 731.3  | 797.6  | 1153.5 | 1564.7 | 3007.2 | 4740.1 | 4842.1 | 4796.6 | 4426.4 |
| 62.5° | 646.3  | 651.5  | 680.7  | 741.1  | 1034.0 | 1365.3 | 2711.0 | 4740.7 | 4910.3 | 4882.3 | 4503.7 |
| 65°   | 593.0  | 600.8  | 629.4  | 683.9  | 937.2  | 1228.9 | 2404.5 | 4658.3 | 4922.6 | 4881.0 | 4499.8 |
| 67.5° | 531.3  | 541.0  | 567.0  | 610.5  | 808.6  | 1083.4 | 1977.1 | 4549.8 | 4681.6 | 4674.5 | 4314.0 |
| 70°   | 469.6  | 469.6  | 498.8  | 533.9  | 670.9  | 927.5  | 1562.1 | 4163.3 | 4314.0 | 4325.1 | 3980.8 |
| 72.5° | 396.2  | 397.5  | 420.2  | 450.8  | 540.4  | 761.2  | 1137.9 | 3559.3 | 4021.7 | 3887.9 | 3590.5 |
| 75°   | 332.5  | 331.2  | 354.6  | 380.0  | 439.7  | 599.5  | 742.4  | 2614.9 | 3675.6 | 3705.4 | 3159.8 |
| 77.5° | 176.7  | 170.2  | 200.0  | 220.2  | 257.9  | 333.2  | 411.8  | 1311.4 | 2661.7 | 2720.1 | 2529.8 |
| 80°   | 50.0   | 50.7   | 132.5  | 148.1  | 169.5  | 165.0  | 191.0  | 500.1  | 1052.8 | 1186.6 | 1475.0 |
| 82.5° | 29.9   | 34.4   | 75.3   | 88.3   | 66.2   | 42.9   | 72.7   | 278.0  | 544.9  | 610.5  | 732.0  |
| 85°   | 15.6   | 16.9   | 26.6   | 33.1   | 25.3   | 21.4   | 22.1   | 116.9  | 265.0  | 269.5  | 292.3  |
| 87.5° | 7.1    | 7.1    | 9.7    | 10.4   | 6.5    | 3.9    | 2.6    | 1.9    | 1.9    | 1.3    | 1.3    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 | 1308.1 |
| 2.5°  | 1289.3 | 1295.8 | 1284.7 | 1276.3 | 1269.8 | 1265.9 | 1261.3 | 1250.3 | 1253.5 | 1258.1 | 1257.4 |
| 5°    | 1295.8 | 1299.0 | 1279.5 | 1252.9 | 1228.2 | 1210.7 | 1199.0 | 1181.5 | 1181.5 | 1188.6 | 1188.6 |
| 7.5°  | 1301.6 | 1297.1 | 1257.4 | 1212.6 | 1184.7 | 1170.4 | 1151.6 | 1132.7 | 1129.5 | 1134.7 | 1135.3 |
| 10°   | 1304.9 | 1285.4 | 1230.2 | 1188.6 | 1152.2 | 1123.0 | 1099.0 | 1077.5 | 1076.9 | 1084.0 | 1085.3 |
| 12.5° | 1319.1 | 1281.5 | 1228.2 | 1171.1 | 1116.5 | 1085.3 | 1056.7 | 1032.7 | 1024.3 | 1024.9 | 1026.2 |
| 15°   | 1341.2 | 1297.1 | 1225.6 | 1147.0 | 1087.9 | 1046.4 | 1004.8 | 974.3  | 966.5  | 976.9  | 980.8  |
| 17.5° | 1367.9 | 1322.4 | 1213.3 | 1124.9 | 1052.8 | 1002.8 | 961.3  | 934.0  | 909.3  | 898.3  | 896.3  |
| 20°   | 1402.9 | 1343.8 | 1219.8 | 1092.5 | 1019.1 | 952.2  | 900.2  | 867.1  | 846.3  | 845.0  | 843.7  |
| 22.5° | 1449.0 | 1367.9 | 1221.1 | 1071.0 | 965.8  | 896.3  | 832.0  | 813.2  | 776.2  | 762.5  | 768.4  |
| 25°   | 1510.1 | 1404.2 | 1217.8 | 1048.3 | 924.9  | 831.4  | 754.1  | 719.7  | 706.0  | 690.4  | 691.7  |
| 27.5° | 1588.7 | 1462.0 | 1226.3 | 1018.4 | 858.0  | 752.1  | 665.7  | 628.7  | 607.9  | 594.9  | 596.9  |
| 30°   | 1748.5 | 1549.7 | 1225.6 | 989.8  | 796.3  | 670.3  | 572.9  | 548.2  | 527.4  | 515.7  | 521.6  |
| 32.5° | 1975.8 | 1740.0 | 1252.9 | 951.5  | 726.1  | 560.5  | 494.9  | 467.0  | 449.5  | 436.5  | 439.7  |
| 35°   | 2257.0 | 1947.2 | 1323.0 | 899.6  | 646.3  | 476.7  | 431.9  | 397.5  | 376.1  | 370.9  | 368.9  |
| 37.5° | 2518.1 | 2130.4 | 1389.3 | 865.1  | 554.7  | 430.6  | 374.1  | 339.7  | 320.9  | 327.4  | 327.4  |
| 40°   | 2751.3 | 2373.3 | 1464.0 | 809.9  | 471.5  | 378.0  | 309.8  | 294.2  | 284.5  | 295.5  | 299.4  |
| 42.5° | 2927.3 | 2606.5 | 1565.3 | 737.2  | 404.0  | 315.7  | 265.0  | 276.0  | 279.9  | 287.7  | 285.8  |
| 45°   | 3145.6 | 2739.6 | 1665.3 | 669.6  | 344.9  | 263.0  | 255.9  | 278.6  | 287.7  | 294.9  | 291.6  |
| 47.5° | 3346.3 | 2842.9 | 1645.2 | 544.9  | 290.3  | 254.6  | 260.5  | 278.6  | 294.2  | 305.9  | 304.0  |
| 50°   | 3519.0 | 2972.1 | 1606.9 | 423.5  | 278.6  | 262.4  | 265.0  | 271.5  | 294.9  | 302.7  | 302.7  |
| 52.5° | 3626.8 | 3100.1 | 1559.5 | 342.3  | 287.1  | 272.1  | 267.6  | 266.9  | 282.5  | 288.4  | 283.2  |
| 55°   | 3756.7 | 3232.6 | 1436.7 | 317.6  | 290.3  | 278.6  | 274.7  | 268.9  | 273.4  | 268.9  | 271.5  |
| 57.5° | 3900.9 | 3363.1 | 1248.3 | 310.5  | 288.4  | 276.7  | 297.5  | 266.3  | 263.7  | 247.5  | 243.6  |
| 60°   | 4027.6 | 3414.5 | 1083.4 | 294.2  | 278.0  | 271.5  | 276.7  | 263.0  | 250.1  | 228.6  | 220.2  |
| 62.5° | 4075.0 | 3409.9 | 915.8  | 277.3  | 262.4  | 263.7  | 263.0  | 253.3  | 241.6  | 220.2  | 215.0  |
| 65°   | 4017.8 | 3306.0 | 742.4  | 257.2  | 250.1  | 255.3  | 248.8  | 234.5  | 215.0  | 197.4  | 192.9  |
| 67.5° | 3824.3 | 3041.0 | 551.4  | 230.6  | 229.9  | 239.7  | 235.1  | 215.6  | 194.2  | 180.6  | 180.6  |
| 70°   | 3454.1 | 2714.9 | 357.2  | 191.6  | 205.9  | 222.8  | 222.8  | 202.0  | 174.1  | 162.4  | 165.6  |
| 72.5° | 3048.8 | 2336.3 | 231.2  | 142.2  | 162.4  | 202.0  | 200.7  | 186.4  | 160.4  | 145.5  | 146.1  |
| 75°   | 2640.9 | 1853.7 | 149.4  | 98.1   | 105.2  | 172.1  | 178.0  | 152.0  | 124.7  | 106.5  | 103.3  |
| 77.5° | 2007.6 | 1394.5 | 94.8   | 57.2   | 66.9   | 105.2  | 135.1  | 126.7  | 127.3  | 155.2  | 153.9  |
| 80°   | 1234.7 | 840.5  | 68.8   | 27.9   | 33.1   | 68.8   | 109.1  | 120.8  | 169.5  | 111.7  | 102.6  |
| 82.5° | 618.3  | 393.0  | 36.4   | 16.9   | 18.8   | 30.5   | 65.0   | 144.8  | 123.4  | 74.0   | 70.1   |
| 85°   | 231.2  | 105.9  | 11.0   | 8.4    | 10.4   | 15.6   | 26.6   | 132.5  | 78.6   | 59.1   | 57.8   |
| 87.5° | 1.3    | 1.9    | 1.9    | 2.6    | 3.9    | 4.5    | 9.7    | 63.0   | 39.6   | 28.6   | 27.3   |
| 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)