

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: P553548

Luminaire Tested: **VERD-G-CA2-150-722-U-T4-HSS**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553548  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-150-722-U-T4-HSS  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1380mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15711 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

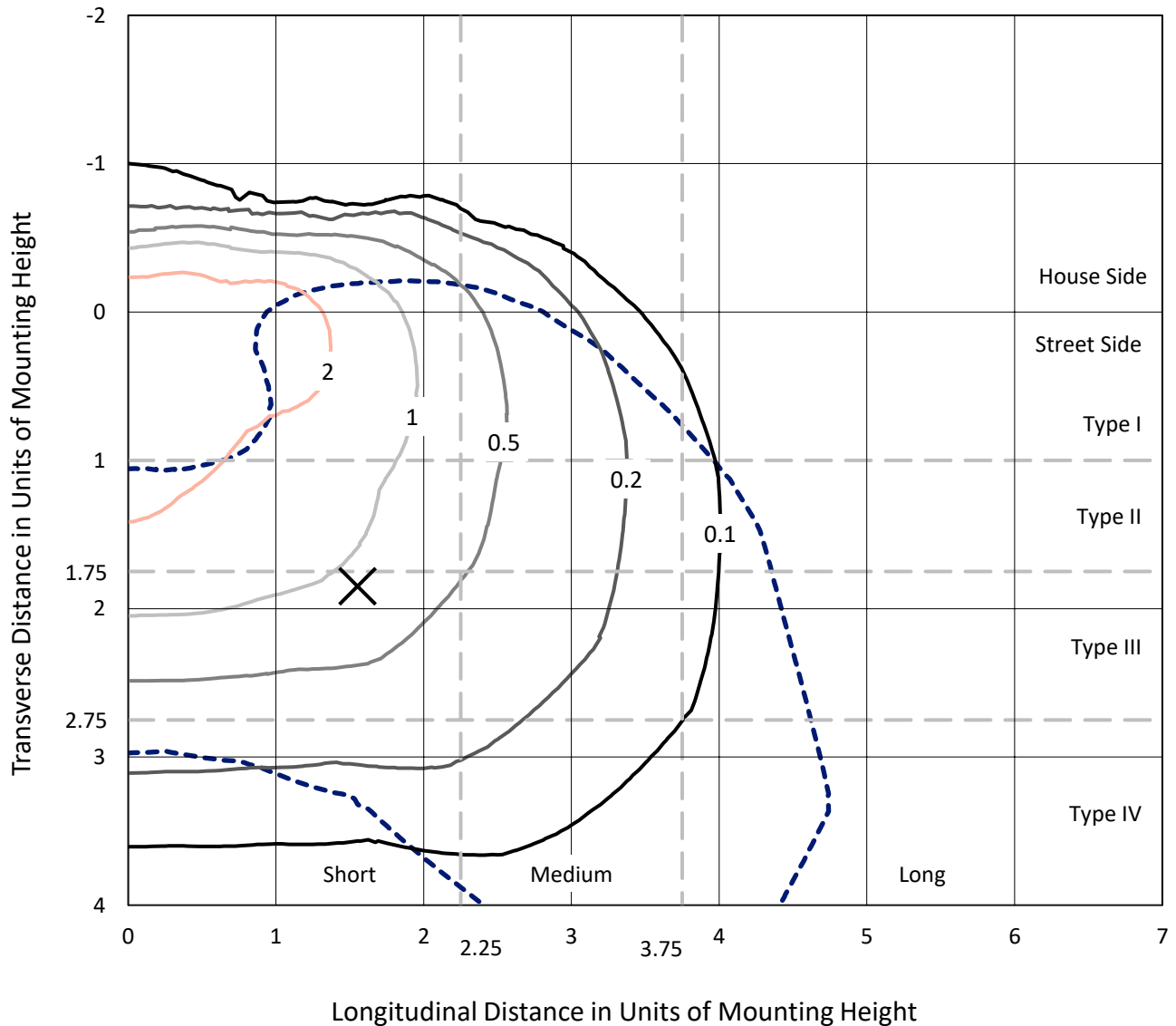
Input Watts (W): 152.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

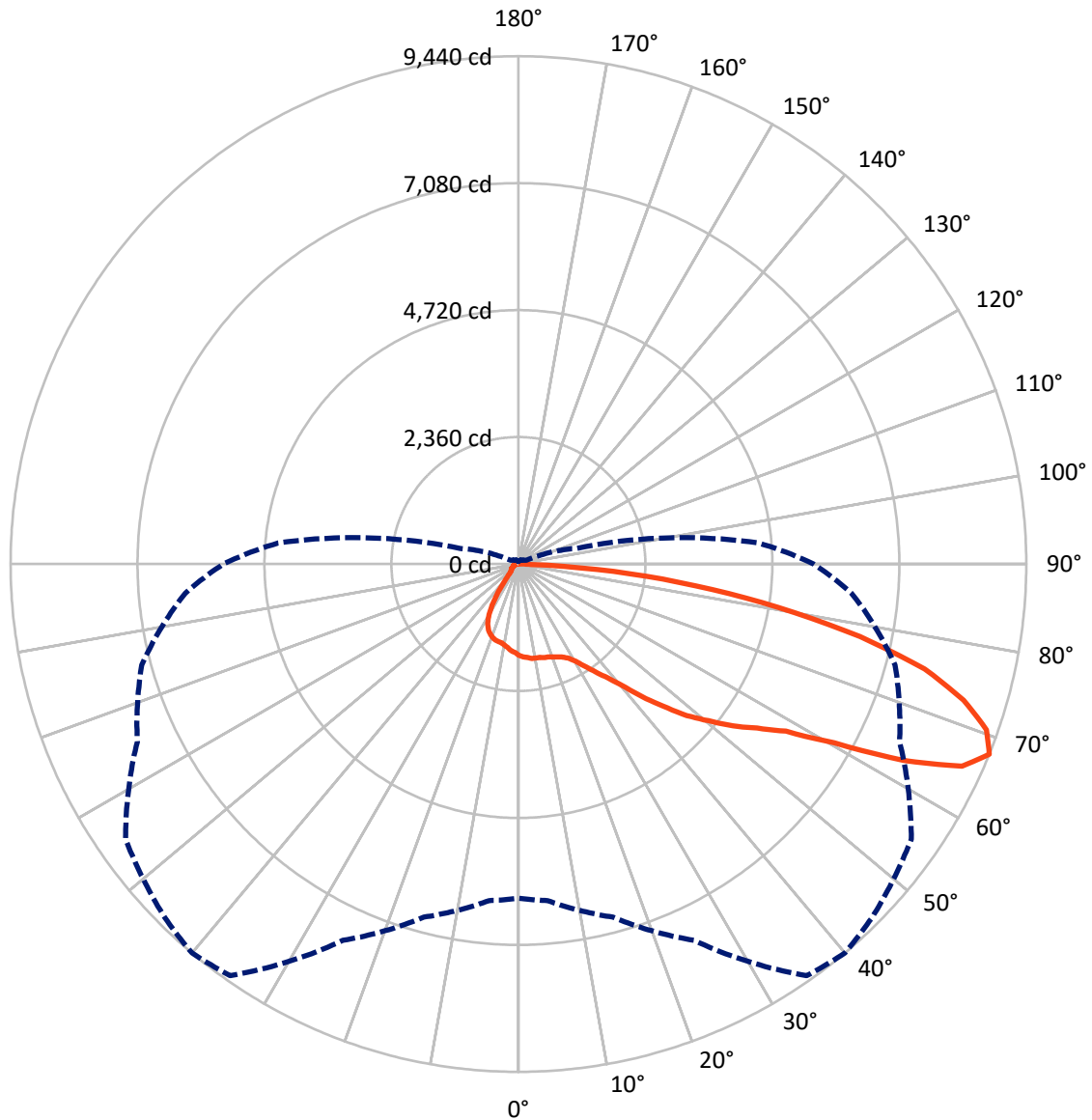
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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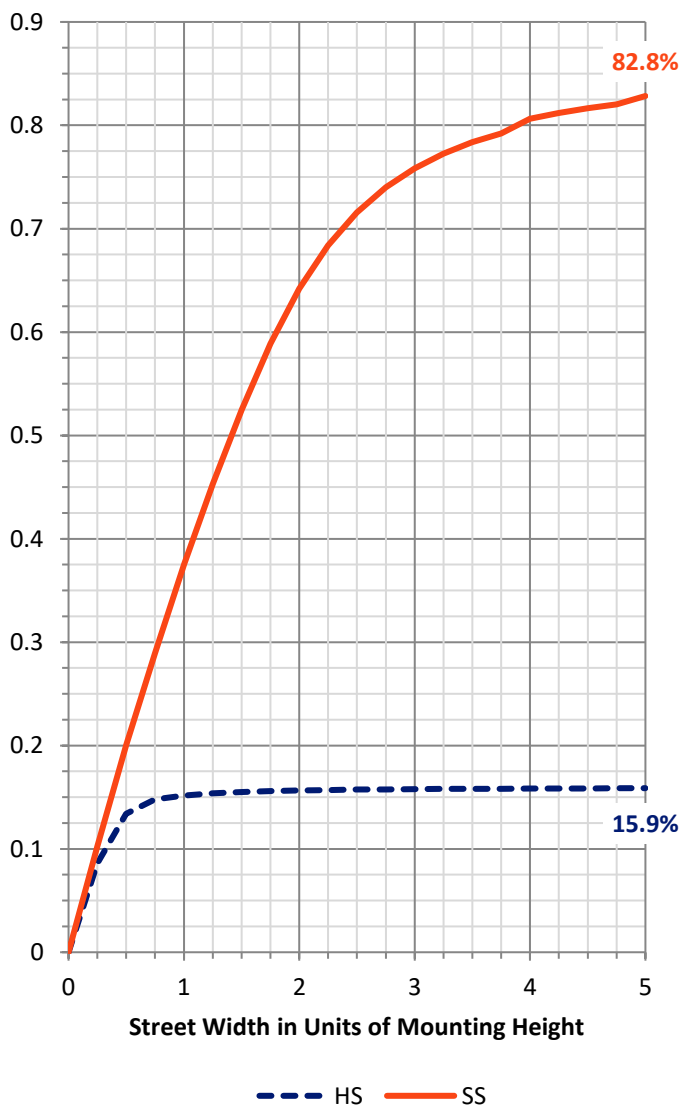
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2521.4   | 0.0    | 2521.4  |
|                    | % Fixture | 16.0     | 0.0    | 16.0    |
| <b>Street Side</b> | Lumens    | 13189.6  | 0.0    | 13189.6 |
|                    | % Fixture | 84.0     | 0.0    | 84.0    |
| <b>Total</b>       | Lumens    | 15711.0  | 0.0    | 15711.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 160.9   | 1.0       |
| 10°-20°   | 477.4   | 3.0       |
| 20°-30°   | 794.1   | 5.1       |
| 30°-40°   | 1248.8  | 7.9       |
| 40°-50°   | 2162.2  | 13.8      |
| 50°-60°   | 3196.1  | 20.3      |
| 60°-70°   | 4155.1  | 26.4      |
| 70°-80°   | 2974.1  | 18.9      |
| 80°-90°   | 542.4   | 3.5       |
| 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°    | 15711.0 | 100.0     |
| 0°-180°   | 15711.0 | 100.0     |

**Coefficient of Utilization**



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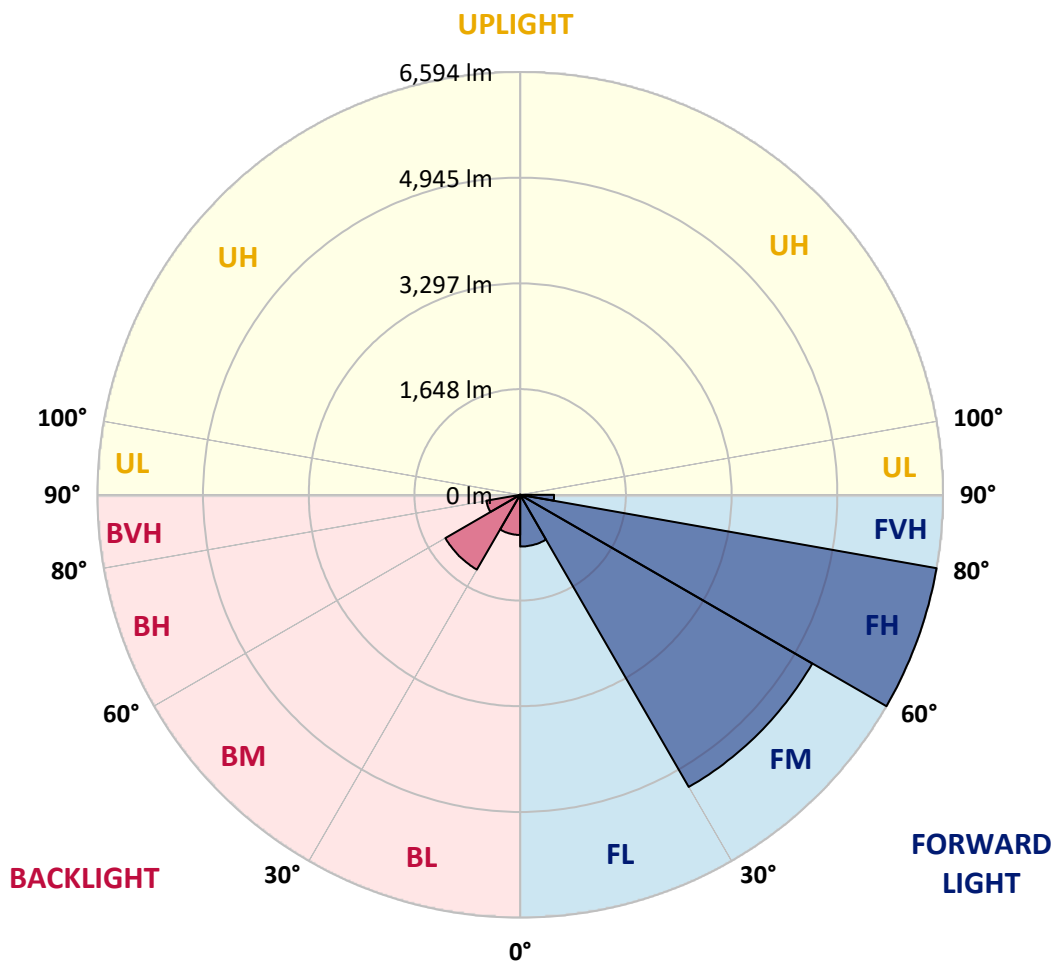
CATALOG NUMBER: VERD-G-CA2-150-722-U-T4-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 807.0  | 5.1       |                         |      |         |
| FM (30°-60°)   | 5260.1 | 33.5      |                         |      |         |
| FH (60°-80°)   | 6593.5 | 42.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 529.0  | 3.4       |                         |      | G4/750  |
| BL (0°-30°)    | 625.5  | 4.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1346.8 | 8.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 535.7  | 3.4       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 13.3   | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 |
| 2.5°  | 1769.5 | 1768.3 | 1756.7 | 1750.8 | 1734.5 | 1728.7 | 1729.8 | 1722.8 | 1706.5 | 1708.8 | 1692.5 |
| 5°    | 1771.8 | 1780.0 | 1762.5 | 1757.8 | 1752.0 | 1745.0 | 1753.2 | 1743.8 | 1729.8 | 1734.5 | 1717.0 |
| 7.5°  | 1782.3 | 1785.8 | 1777.6 | 1773.0 | 1759.0 | 1773.0 | 1771.8 | 1763.7 | 1754.3 | 1746.2 | 1739.2 |
| 10°   | 1785.8 | 1782.3 | 1766.0 | 1762.5 | 1762.5 | 1776.5 | 1782.3 | 1785.8 | 1785.8 | 1773.0 | 1768.3 |
| 12.5° | 1768.3 | 1766.0 | 1749.7 | 1756.7 | 1771.8 | 1781.1 | 1799.8 | 1811.5 | 1830.1 | 1816.1 | 1809.1 |
| 15°   | 1741.5 | 1747.3 | 1754.3 | 1756.7 | 1784.6 | 1805.6 | 1823.1 | 1844.1 | 1875.6 | 1875.6 | 1873.3 |
| 17.5° | 1749.7 | 1761.3 | 1769.5 | 1781.1 | 1808.0 | 1815.0 | 1839.5 | 1873.3 | 1925.8 | 1929.3 | 1935.1 |
| 20°   | 1790.5 | 1790.5 | 1792.8 | 1801.0 | 1824.3 | 1845.3 | 1866.3 | 1909.5 | 1970.1 | 1989.9 | 1995.8 |
| 22.5° | 1834.8 | 1832.5 | 1843.0 | 1841.8 | 1860.5 | 1874.5 | 1901.3 | 1938.6 | 2014.4 | 2051.8 | 2066.9 |
| 25°   | 1871.0 | 1878.0 | 1887.3 | 1875.6 | 1911.8 | 1917.6 | 1938.6 | 1984.1 | 2064.6 | 2131.1 | 2163.7 |
| 27.5° | 1932.8 | 1937.4 | 1935.1 | 1940.9 | 1977.1 | 1980.6 | 2000.4 | 2065.8 | 2140.4 | 2231.4 | 2302.5 |
| 30°   | 2038.9 | 2022.6 | 2024.9 | 2037.8 | 2090.3 | 2097.3 | 2118.2 | 2181.2 | 2240.7 | 2360.9 | 2472.8 |
| 32.5° | 2184.7 | 2184.7 | 2159.1 | 2183.6 | 2244.2 | 2262.9 | 2294.4 | 2388.9 | 2447.2 | 2511.3 | 2695.6 |
| 35°   | 2463.5 | 2463.5 | 2444.8 | 2380.7 | 2411.0 | 2457.7 | 2516.0 | 2646.6 | 2826.3 | 3036.2 | 3232.2 |
| 37.5° | 2925.4 | 2918.4 | 2844.9 | 2729.5 | 2664.1 | 2680.5 | 2737.6 | 2948.7 | 3240.4 | 3752.4 | 3902.9 |
| 40°   | 3477.1 | 3457.3 | 3319.7 | 3158.7 | 2991.9 | 2963.9 | 2990.7 | 3255.5 | 3670.8 | 4430.1 | 4487.3 |
| 42.5° | 3967.0 | 3965.9 | 3764.1 | 3627.6 | 3414.2 | 3367.5 | 3336.0 | 3565.8 | 4102.4 | 4922.4 | 4942.2 |
| 45°   | 4434.8 | 4423.1 | 4227.2 | 4079.0 | 3884.2 | 3765.3 | 3757.1 | 3918.1 | 4556.1 | 5365.6 | 5281.6 |
| 47.5° | 4851.2 | 4868.7 | 4649.4 | 4507.1 | 4291.3 | 4209.7 | 4144.3 | 4282.0 | 4973.7 | 5743.5 | 5569.7 |
| 50°   | 5330.6 | 5362.1 | 5034.3 | 4878.0 | 4659.9 | 4579.4 | 4615.6 | 4717.1 | 5390.1 | 6052.6 | 5826.3 |
| 52.5° | 5936.0 | 5835.7 | 5510.2 | 5242.0 | 5039.0 | 4999.3 | 5007.5 | 5148.6 | 5871.8 | 6305.8 | 6004.8 |
| 55°   | 6648.7 | 6500.5 | 6173.9 | 5755.2 | 5423.9 | 5386.6 | 5383.1 | 5526.6 | 6317.4 | 6542.5 | 6142.4 |
| 57.5° | 6917.0 | 6993.9 | 6865.6 | 6556.5 | 5971.0 | 5861.3 | 5776.2 | 5909.2 | 6717.5 | 6803.8 | 6287.1 |
| 60°   | 7536.3 | 7619.2 | 7524.7 | 7326.4 | 7128.1 | 6746.7 | 6373.4 | 6360.6 | 7090.8 | 7053.4 | 6347.7 |
| 62.5° | 7605.2 | 7578.3 | 7998.2 | 8068.2 | 8186.0 | 8037.9 | 7761.5 | 6959.0 | 7427.9 | 7180.6 | 6395.6 |
| 65°   | 7220.2 | 7223.7 | 7787.1 | 8172.0 | 8986.2 | 9062.0 | 8890.6 | 7910.8 | 7681.0 | 7230.7 | 6361.7 |
| 67.5° | 6212.4 | 6281.3 | 6794.5 | 7717.1 | 9340.8 | 9440.0 | 9295.3 | 8915.1 | 7817.5 | 7248.2 | 6214.8 |
| 70°   | 5338.8 | 5341.1 | 5826.3 | 6952.0 | 9154.2 | 9228.8 | 9162.4 | 8980.4 | 7765.0 | 7109.4 | 5815.8 |
| 72.5° | 4201.5 | 4188.7 | 4614.4 | 5751.7 | 8495.2 | 8653.8 | 8617.6 | 8742.4 | 7572.5 | 6607.9 | 4948.0 |
| 75°   | 3033.9 | 3059.6 | 3491.1 | 4430.1 | 7307.7 | 7800.0 | 7974.9 | 8355.2 | 6886.6 | 5611.7 | 3627.6 |
| 77.5° | 2124.1 | 2149.7 | 2563.8 | 3365.2 | 5897.5 | 6491.2 | 6772.3 | 7105.9 | 5581.4 | 4159.5 | 1859.3 |
| 80°   | 1389.2 | 1412.6 | 1768.3 | 2527.7 | 4396.3 | 4902.5 | 5113.7 | 4914.2 | 3277.7 | 1747.3 | 204.1  |
| 82.5° | 807.2  | 852.7  | 1123.3 | 1734.5 | 3080.6 | 3320.8 | 3332.5 | 2586.0 | 1224.8 | 156.3  | 95.6   |
| 85°   | 393.1  | 422.2  | 671.9  | 1028.8 | 1685.5 | 1771.8 | 1643.5 | 962.3  | 285.8  | 74.7   | 54.8   |
| 87.5° | 58.3   | 77.0   | 264.8  | 388.4  | 285.8  | 234.5  | 141.1  | 32.7   | 18.7   | 9.3    | 7.0    |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 | 1700.7 |
| 2.5°  | 1683.2 | 1682.0 | 1685.5 | 1670.3 | 1671.5 | 1652.8 | 1645.8 | 1642.3 | 1658.7 | 1656.3 | 1668.0 |
| 5°    | 1704.2 | 1692.5 | 1691.3 | 1654.0 | 1650.5 | 1627.2 | 1613.2 | 1592.2 | 1608.5 | 1605.0 | 1605.0 |
| 7.5°  | 1717.0 | 1705.3 | 1698.3 | 1654.0 | 1623.7 | 1582.9 | 1559.5 | 1543.2 | 1542.0 | 1538.5 | 1539.7 |
| 10°   | 1738.0 | 1732.2 | 1694.8 | 1645.8 | 1605.0 | 1552.5 | 1508.2 | 1482.5 | 1470.9 | 1472.0 | 1463.9 |
| 12.5° | 1784.6 | 1773.0 | 1722.8 | 1664.5 | 1599.2 | 1526.9 | 1469.7 | 1424.2 | 1400.9 | 1396.2 | 1383.4 |
| 15°   | 1851.1 | 1838.3 | 1775.3 | 1708.8 | 1614.3 | 1529.2 | 1444.0 | 1363.6 | 1323.9 | 1307.6 | 1295.9 |
| 17.5° | 1929.3 | 1909.5 | 1837.1 | 1761.3 | 1645.8 | 1526.9 | 1419.6 | 1311.1 | 1235.3 | 1192.1 | 1188.6 |
| 20°   | 1991.1 | 1981.8 | 1899.0 | 1817.3 | 1665.7 | 1511.7 | 1378.7 | 1235.3 | 1122.1 | 1042.8 | 1026.5 |
| 22.5° | 2072.8 | 2073.9 | 1981.8 | 1859.3 | 1682.0 | 1486.0 | 1314.6 | 1129.1 | 975.1  | 869.0  | 850.3  |
| 25°   | 2190.6 | 2173.1 | 2069.3 | 1893.1 | 1685.5 | 1456.9 | 1227.1 | 996.1  | 795.5  | 676.5  | 655.5  |
| 27.5° | 2331.7 | 2306.0 | 2140.4 | 1910.6 | 1670.3 | 1398.6 | 1110.4 | 822.3  | 587.9  | 485.2  | 468.9  |
| 30°   | 2481.0 | 2420.4 | 2198.7 | 1917.6 | 1623.7 | 1304.1 | 944.8  | 600.7  | 416.4  | 344.1  | 337.1  |
| 32.5° | 2672.3 | 2583.7 | 2248.9 | 1894.3 | 1552.5 | 1160.6 | 732.5  | 411.8  | 288.1  | 249.6  | 252.0  |
| 35°   | 3064.2 | 2847.3 | 2327.0 | 1868.6 | 1452.2 | 981.0  | 512.1  | 272.9  | 222.8  | 218.1  | 219.3  |
| 37.5° | 3656.8 | 3312.7 | 2464.7 | 1831.3 | 1302.9 | 750.0  | 328.9  | 211.1  | 212.3  | 212.3  | 212.3  |
| 40°   | 4229.5 | 3821.2 | 2675.8 | 1757.8 | 1119.8 | 524.9  | 217.0  | 199.5  | 205.3  | 204.1  | 205.3  |
| 42.5° | 4637.7 | 4199.2 | 2897.4 | 1668.0 | 908.7  | 332.4  | 194.8  | 187.8  | 191.3  | 190.1  | 193.6  |
| 45°   | 4969.0 | 4523.4 | 3099.2 | 1540.9 | 680.0  | 217.0  | 191.3  | 178.5  | 175.0  | 173.8  | 177.3  |
| 47.5° | 5214.0 | 4736.9 | 3243.9 | 1382.2 | 453.7  | 186.6  | 183.1  | 164.5  | 159.8  | 159.8  | 161.0  |
| 50°   | 5451.9 | 4942.2 | 3287.0 | 1201.4 | 279.9  | 182.0  | 172.6  | 152.8  | 145.8  | 143.5  | 145.8  |
| 52.5° | 5617.6 | 5012.2 | 3296.3 | 997.3  | 187.8  | 177.3  | 159.8  | 138.8  | 130.6  | 129.5  | 130.6  |
| 55°   | 5758.7 | 5155.6 | 3220.5 | 743.0  | 168.0  | 166.8  | 148.1  | 124.8  | 115.5  | 120.1  | 122.5  |
| 57.5° | 5793.7 | 5169.6 | 3068.9 | 491.1  | 166.8  | 152.8  | 135.3  | 112.0  | 105.0  | 109.6  | 110.8  |
| 60°   | 5882.3 | 5112.5 | 2879.9 | 302.1  | 163.3  | 136.5  | 120.1  | 99.1   | 94.5   | 95.6   | 98.0   |
| 62.5° | 5806.5 | 5081.0 | 2556.8 | 211.1  | 150.5  | 124.8  | 112.0  | 91.0   | 82.8   | 81.7   | 81.7   |
| 65°   | 5729.5 | 4895.5 | 1954.9 | 175.0  | 134.1  | 116.6  | 101.5  | 80.5   | 71.2   | 66.5   | 66.5   |
| 67.5° | 5484.6 | 4480.3 | 1116.3 | 162.1  | 121.3  | 107.3  | 92.1   | 73.5   | 61.8   | 56.0   | 53.7   |
| 70°   | 4867.5 | 3589.1 | 344.1  | 148.1  | 122.5  | 100.3  | 85.1   | 64.2   | 53.7   | 45.5   | 44.3   |
| 72.5° | 3811.9 | 2244.2 | 161.0  | 130.6  | 126.0  | 93.3   | 79.3   | 59.5   | 47.8   | 38.5   | 37.3   |
| 75°   | 2243.1 | 537.7  | 131.8  | 96.8   | 107.3  | 99.1   | 78.2   | 57.2   | 42.0   | 31.5   | 30.3   |
| 77.5° | 487.6  | 130.6  | 117.8  | 65.3   | 80.5   | 95.6   | 74.7   | 50.2   | 37.3   | 24.5   | 23.3   |
| 80°   | 117.8  | 102.6  | 107.3  | 50.2   | 53.7   | 66.5   | 60.7   | 43.2   | 33.8   | 19.8   | 18.7   |
| 82.5° | 79.3   | 77.0   | 94.5   | 31.5   | 26.8   | 24.5   | 25.7   | 26.8   | 28.0   | 15.2   | 14.0   |
| 85°   | 52.5   | 66.5   | 50.2   | 17.5   | 15.2   | 12.8   | 12.8   | 11.7   | 16.3   | 9.3    | 9.3    |
| 87.5° | 8.2    | 7.0    | 8.2    | 7.0    | 7.0    | 5.8    | 4.7    | 4.7    | 3.5    | 4.7    | 4.7    |
| 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)