

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: P507563

Luminaire Tested: **VERD-S-CA1-40-760-U-T3**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-40-760-U-T3  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5700K, 760mA LED AND TYPE III OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6046 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.4  
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

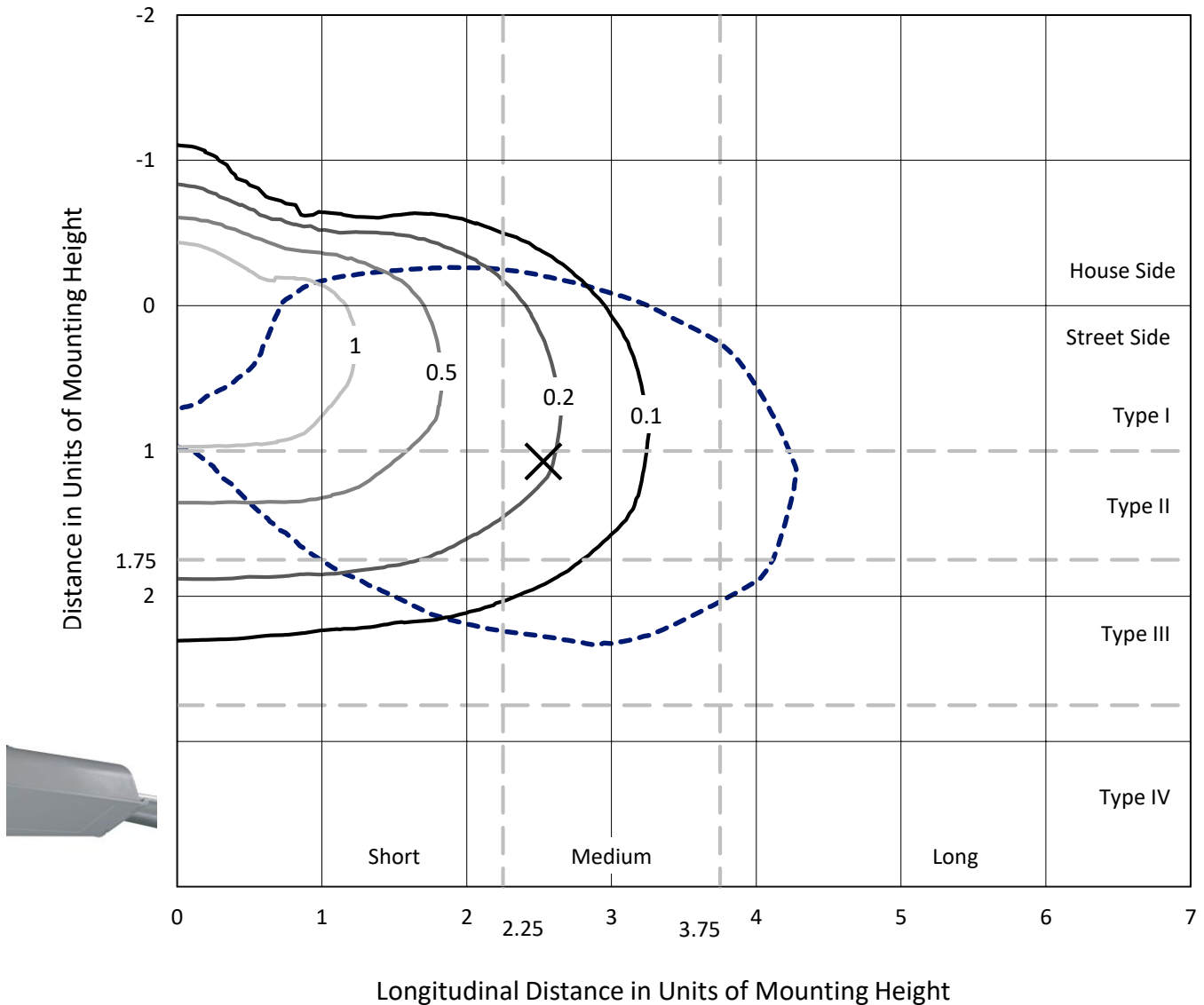


REPORT NUMBER: P507563

CATALOG NUMBER: VERD-S-CA1-40-760-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

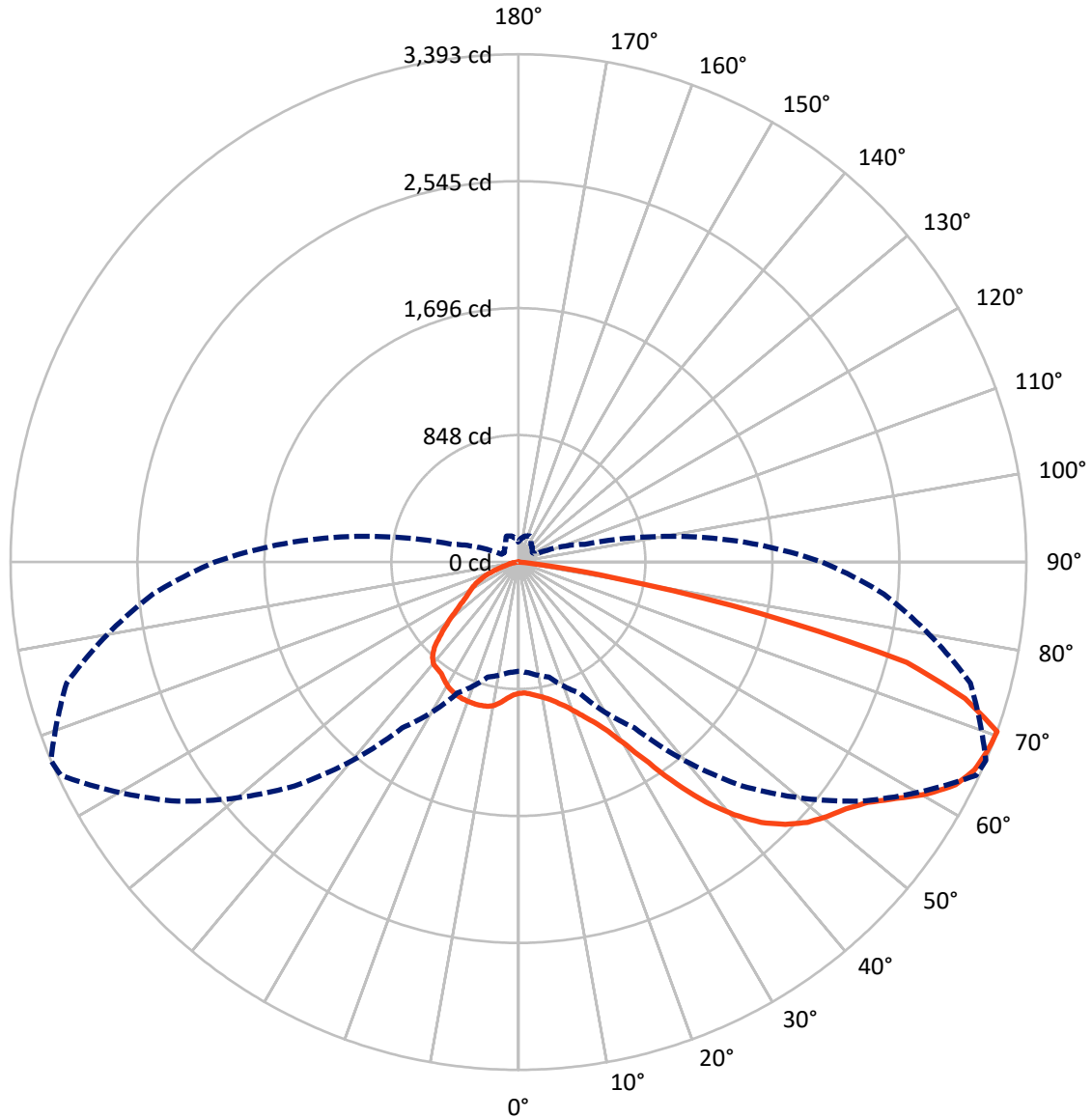
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P507563  
CATALOG NUMBER: VERD-S-CA1-40-760-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P507563

CATALOG NUMBER: VERD-S-CA1-40-760-U-T3

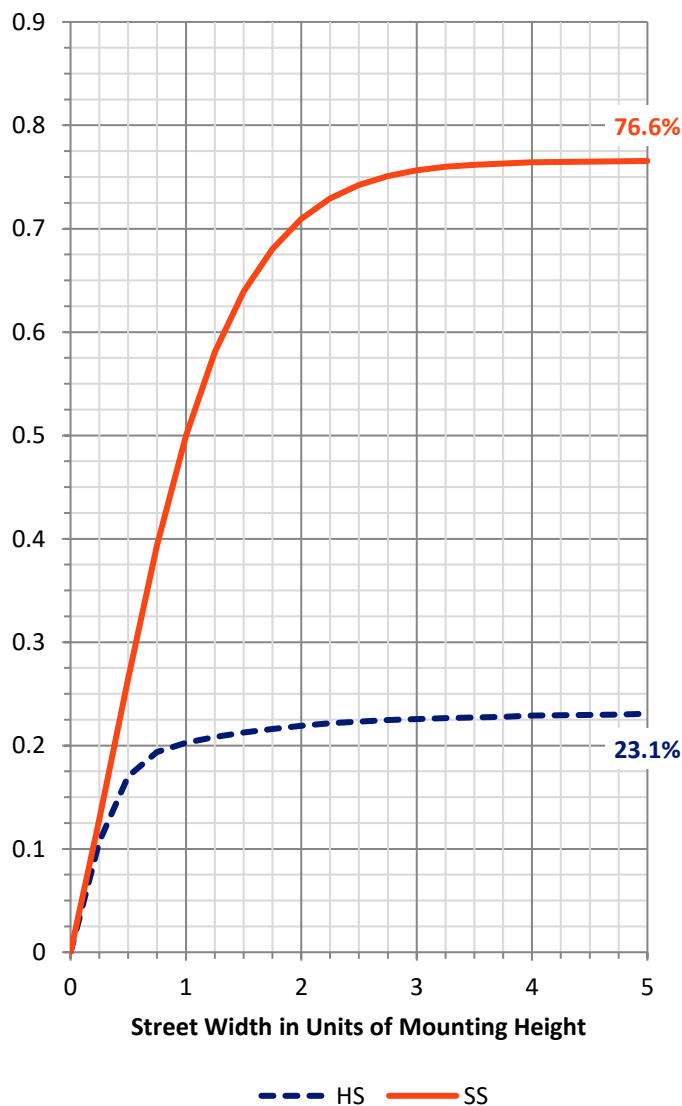
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1414.6   | 0.0    | 1414.6 |
|                    | % Fixture | 23.4     | 0.0    | 23.4   |
| <b>Street Side</b> | Lumens    | 4631.4   | 0.0    | 4631.4 |
|                    | % Fixture | 76.6     | 0.0    | 76.6   |
| <b>Total</b>       | Lumens    | 6046.0   | 0.0    | 6046.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.0   | 1.5       |
| 10°-20°   | 286.6  | 4.7       |
| 20°-30°   | 505.4  | 8.4       |
| 30°-40°   | 774.8  | 12.8      |
| 40°-50°   | 1056.1 | 17.5      |
| 50°-60°   | 1249.7 | 20.7      |
| 60°-70°   | 1302.8 | 21.5      |
| 70°-80°   | 728.8  | 12.1      |
| 80°-90°   | 52.7   | 0.9       |
| 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°    | 6046.0 | 100.0     |
| 0°-180°   | 6046.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P507563

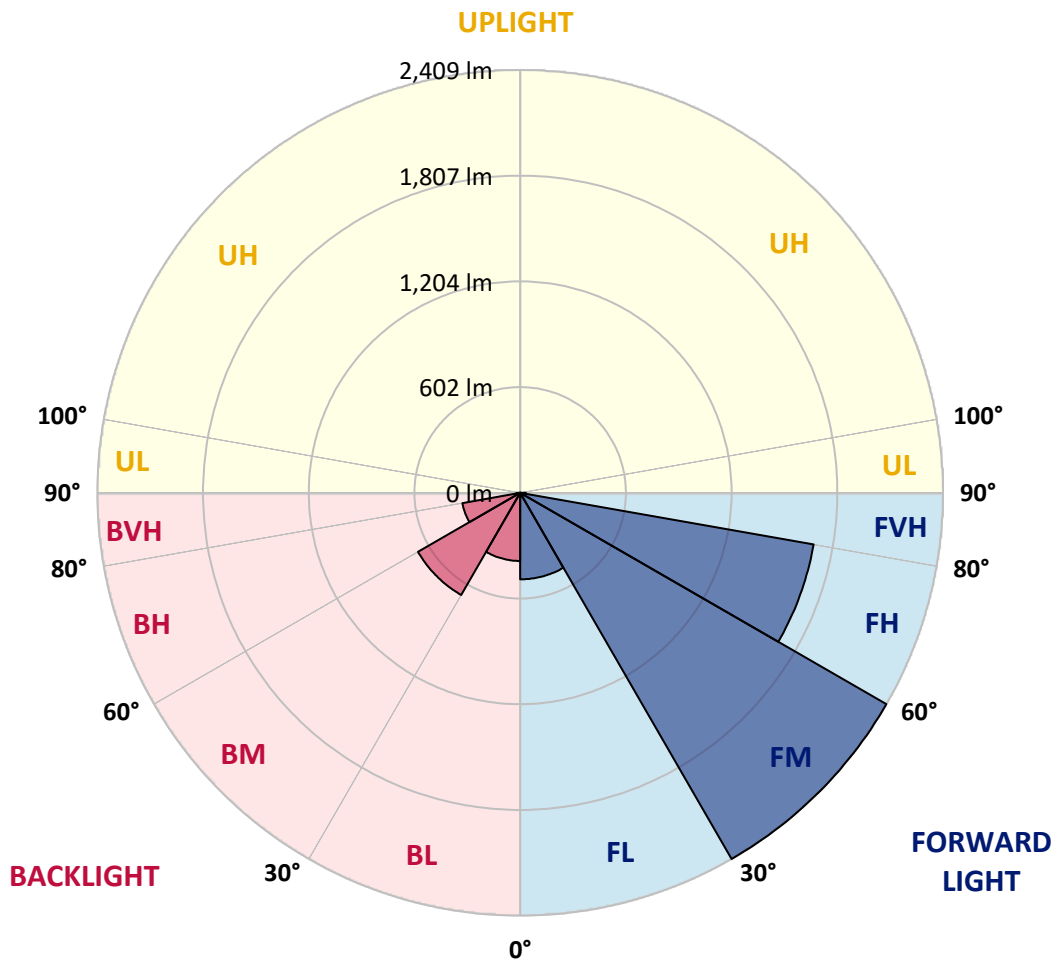
CATALOG NUMBER: VERD-S-CA1-40-760-U-T3

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 492.8  | 8.2       |                         |      |         |
| FM (30°-60°)   | 2408.7 | 39.8      |                         |      |         |
| FH (60°-80°)   | 1697.6 | 28.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 32.3   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 388.3  | 6.4       | B1/500                  |      |         |
| BM (30°-60°)   | 671.9  | 11.1      | B1/1000                 |      |         |
| BH (60°-80°)   | 334.0  | 5.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 20.4   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium





REPORT NUMBER: P507563  
 CATALOG NUMBER: VERD-S-CA1-40-760-U-T3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  |
| 2.5°  | 880.4  | 880.4  | 880.4  | 878.7  | 878.7  | 878.7  | 877.0  | 875.3  | 875.3  | 877.0  | 877.0  |
| 5°    | 902.7  | 902.7  | 901.0  | 899.3  | 895.9  | 892.4  | 889.0  | 887.3  | 887.3  | 887.3  | 889.0  |
| 7.5°  | 933.6  | 931.9  | 928.5  | 926.8  | 921.6  | 916.5  | 909.6  | 902.7  | 902.7  | 899.3  | 902.7  |
| 10°   | 971.4  | 971.4  | 966.2  | 962.8  | 955.9  | 942.2  | 931.9  | 921.6  | 919.9  | 916.5  | 921.6  |
| 12.5° | 1019.4 | 1019.4 | 1016.0 | 1007.4 | 997.1  | 980.0  | 961.1  | 943.9  | 942.2  | 937.0  | 947.3  |
| 15°   | 1077.8 | 1072.6 | 1070.9 | 1064.0 | 1045.2 | 1022.9 | 997.1  | 974.8  | 974.8  | 966.2  | 978.2  |
| 17.5° | 1143.0 | 1141.3 | 1139.6 | 1131.0 | 1108.7 | 1076.1 | 1041.7 | 1016.0 | 1010.8 | 1005.7 | 1012.6 |
| 20°   | 1221.9 | 1220.2 | 1218.5 | 1204.8 | 1179.0 | 1139.6 | 1098.4 | 1064.0 | 1060.6 | 1055.5 | 1050.3 |
| 22.5° | 1312.9 | 1312.9 | 1306.0 | 1295.7 | 1259.7 | 1213.4 | 1163.6 | 1120.7 | 1120.7 | 1115.5 | 1091.5 |
| 25°   | 1400.4 | 1397.0 | 1393.6 | 1381.5 | 1352.4 | 1302.6 | 1244.2 | 1194.5 | 1187.6 | 1187.6 | 1146.4 |
| 27.5° | 1481.1 | 1481.1 | 1486.2 | 1479.4 | 1450.2 | 1398.7 | 1340.4 | 1283.7 | 1280.3 | 1273.4 | 1209.9 |
| 30°   | 1565.2 | 1568.6 | 1570.3 | 1570.3 | 1556.6 | 1517.1 | 1453.6 | 1410.7 | 1417.6 | 1400.4 | 1304.3 |
| 32.5° | 1628.7 | 1632.1 | 1654.4 | 1675.0 | 1663.0 | 1640.7 | 1604.7 | 1590.9 | 1597.8 | 1611.5 | 1506.8 |
| 35°   | 1688.7 | 1693.9 | 1724.8 | 1767.7 | 1786.6 | 1776.3 | 1781.4 | 1805.4 | 1820.9 | 1875.8 | 1784.9 |
| 37.5° | 1733.4 | 1738.5 | 1766.0 | 1819.2 | 1875.8 | 1905.0 | 1953.0 | 2006.2 | 2035.4 | 2105.8 | 1975.4 |
| 40°   | 1745.4 | 1754.0 | 1810.6 | 1882.7 | 1968.5 | 2056.0 | 2114.4 | 2183.0 | 2219.1 | 2251.7 | 2104.1 |
| 42.5° | 1704.2 | 1712.8 | 1786.6 | 1937.6 | 2057.7 | 2191.6 | 2255.1 | 2349.5 | 2378.7 | 2359.8 | 2203.6 |
| 45°   | 1678.4 | 1683.6 | 1759.1 | 1932.4 | 2135.0 | 2322.0 | 2383.8 | 2483.3 | 2500.5 | 2454.2 | 2289.4 |
| 47.5° | 1642.4 | 1647.6 | 1728.2 | 1923.9 | 2196.7 | 2435.3 | 2478.2 | 2576.0 | 2598.3 | 2533.1 | 2354.6 |
| 50°   | 1589.2 | 1596.1 | 1688.7 | 1908.4 | 2237.9 | 2512.5 | 2558.9 | 2660.1 | 2672.1 | 2603.5 | 2423.3 |
| 52.5° | 1525.7 | 1536.0 | 1633.8 | 1875.8 | 2265.4 | 2562.3 | 2622.4 | 2727.0 | 2739.1 | 2694.4 | 2497.1 |
| 55°   | 1448.5 | 1458.8 | 1563.5 | 1827.8 | 2256.8 | 2577.7 | 2649.8 | 2812.9 | 2833.5 | 2797.4 | 2560.6 |
| 57.5° | 1373.0 | 1379.8 | 1487.9 | 1757.4 | 2208.8 | 2601.8 | 2732.2 | 2951.9 | 2979.3 | 2903.8 | 2612.1 |
| 60°   | 1282.0 | 1297.5 | 1402.1 | 1661.3 | 2135.0 | 2625.8 | 2838.6 | 3118.3 | 3144.1 | 3006.8 | 2651.5 |
| 62.5° | 1187.6 | 1201.3 | 1294.0 | 1541.2 | 2020.0 | 2603.5 | 2919.3 | 3262.5 | 3278.0 | 3089.2 | 2665.3 |
| 65°   | 1077.8 | 1079.5 | 1165.3 | 1388.4 | 1855.2 | 2512.5 | 2926.1 | 3332.9 | 3348.3 | 3140.7 | 2641.2 |
| 67.5° | 931.9  | 931.9  | 1004.0 | 1194.5 | 1633.8 | 2347.8 | 2864.3 | 3355.2 | 3377.5 | 3175.0 | 2582.9 |
| 70°   | 729.4  | 741.4  | 796.3  | 966.2  | 1352.4 | 2114.4 | 2785.4 | 3372.3 | 3392.9 | 3125.2 | 2450.7 |
| 72.5° | 509.7  | 506.3  | 562.9  | 665.9  | 978.2  | 1687.0 | 2485.1 | 3120.1 | 3120.1 | 2871.2 | 2208.8 |
| 75°   | 156.2  | 175.1  | 200.8  | 269.4  | 446.2  | 1131.0 | 2035.4 | 2644.7 | 2679.0 | 2486.8 | 1820.9 |
| 77.5° | 51.5   | 51.5   | 60.1   | 73.8   | 96.1   | 240.3  | 1017.7 | 1620.1 | 1647.6 | 1618.4 | 1127.5 |
| 80°   | 41.2   | 41.2   | 46.3   | 53.2   | 61.8   | 123.6  | 358.7  | 607.5  | 652.2  | 719.1  | 466.8  |
| 82.5° | 29.2   | 29.2   | 30.9   | 32.6   | 30.9   | 49.8   | 94.4   | 161.3  | 164.8  | 178.5  | 151.0  |
| 85°   | 18.9   | 17.2   | 17.2   | 15.4   | 13.7   | 13.7   | 12.0   | 12.0   | 13.7   | 13.7   | 17.2   |
| 87.5° | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 3.4    | 5.1    | 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    |



REPORT NUMBER: P507563  
 CATALOG NUMBER: VERD-S-CA1-40-760-U-T3

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0°    | 877.0  | 877.0  | 877.0  | 877.0 | 877.0 | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  | 877.0  |
| 2.5°  | 878.7  | 880.4  | 885.6  | 889.0 | 892.4 | 895.9  | 897.6  | 899.3  | 899.3  | 901.0  | 901.0  |
| 5°    | 890.7  | 894.1  | 902.7  | 911.3 | 925.0 | 938.8  | 950.8  | 957.6  | 959.4  | 966.2  | 966.2  |
| 7.5°  | 906.2  | 911.3  | 931.9  | 947.3 | 967.9 | 983.4  | 997.1  | 1004.0 | 1010.8 | 1014.3 | 1014.3 |
| 10°   | 930.2  | 937.0  | 957.6  | 974.8 | 992.0 | 1004.0 | 1012.6 | 1017.7 | 1019.4 | 1021.1 | 1021.1 |
| 12.5° | 954.2  | 962.8  | 974.8  | 988.5 | 998.8 | 1005.7 | 1010.8 | 1012.6 | 1012.6 | 1012.6 | 1012.6 |
| 15°   | 980.0  | 983.4  | 986.8  | 990.3 | 995.4 | 997.1  | 997.1  | 995.4  | 992.0  | 990.3  | 990.3  |
| 17.5° | 1005.7 | 1002.3 | 997.1  | 990.3 | 983.4 | 978.2  | 971.4  | 964.5  | 959.4  | 955.9  | 957.6  |
| 20°   | 1036.6 | 1026.3 | 1004.0 | 986.8 | 967.9 | 949.1  | 933.6  | 919.9  | 909.6  | 907.9  | 909.6  |
| 22.5° | 1072.6 | 1052.0 | 1016.0 | 980.0 | 947.3 | 913.0  | 880.4  | 861.5  | 851.2  | 842.7  | 842.7  |
| 25°   | 1115.5 | 1082.9 | 1026.3 | 969.7 | 918.2 | 863.3  | 818.6  | 789.5  | 772.3  | 762.0  | 765.4  |
| 27.5° | 1165.3 | 1124.1 | 1036.6 | 954.2 | 875.3 | 803.2  | 744.8  | 698.5  | 679.6  | 665.9  | 667.6  |
| 30°   | 1237.4 | 1172.2 | 1048.6 | 931.9 | 820.3 | 729.4  | 652.2  | 597.2  | 564.6  | 554.3  | 557.8  |
| 32.5° | 1398.7 | 1275.1 | 1062.3 | 899.3 | 758.6 | 641.9  | 538.9  | 472.0  | 437.6  | 437.6  | 435.9  |
| 35°   | 1668.2 | 1489.7 | 1094.9 | 859.8 | 689.9 | 544.0  | 411.9  | 350.1  | 348.4  | 355.3  | 357.0  |
| 37.5° | 1856.9 | 1687.0 | 1196.2 | 822.1 | 614.4 | 425.6  | 305.5  | 288.3  | 305.5  | 312.3  | 310.6  |
| 40°   | 1978.8 | 1805.4 | 1312.9 | 782.6 | 508.0 | 305.5  | 242.0  | 230.0  | 247.1  | 260.9  | 271.2  |
| 42.5° | 2078.3 | 1887.8 | 1366.1 | 731.1 | 379.3 | 219.7  | 178.5  | 175.1  | 200.8  | 219.7  | 226.5  |
| 45°   | 2157.3 | 1963.3 | 1373.0 | 659.0 | 257.4 | 163.0  | 145.9  | 161.3  | 192.2  | 207.7  | 209.4  |
| 47.5° | 2220.8 | 2025.1 | 1354.1 | 544.0 | 171.6 | 142.4  | 142.4  | 163.0  | 192.2  | 207.7  | 207.7  |
| 50°   | 2282.6 | 2076.6 | 1306.0 | 442.8 | 154.5 | 139.0  | 144.2  | 164.8  | 190.5  | 202.5  | 202.5  |
| 52.5° | 2334.0 | 2110.9 | 1221.9 | 353.5 | 149.3 | 135.6  | 144.2  | 164.8  | 187.1  | 192.2  | 188.8  |
| 55°   | 2380.4 | 2124.7 | 1146.4 | 284.9 | 144.2 | 133.9  | 147.6  | 168.2  | 185.4  | 185.4  | 178.5  |
| 57.5° | 2406.1 | 2092.1 | 1089.8 | 235.1 | 139.0 | 133.9  | 149.3  | 171.6  | 190.5  | 193.9  | 188.8  |
| 60°   | 2406.1 | 2045.7 | 1028.0 | 207.7 | 135.6 | 133.9  | 149.3  | 183.6  | 226.5  | 209.4  | 207.7  |
| 62.5° | 2373.5 | 1995.9 | 935.3  | 185.4 | 130.4 | 135.6  | 151.0  | 204.2  | 276.3  | 207.7  | 199.1  |
| 65°   | 2316.9 | 1899.8 | 813.5  | 164.8 | 125.3 | 137.3  | 149.3  | 235.1  | 329.5  | 200.8  | 176.8  |
| 67.5° | 2210.5 | 1747.1 | 662.5  | 144.2 | 118.4 | 133.9  | 145.9  | 216.2  | 202.5  | 166.5  | 149.3  |
| 70°   | 2026.8 | 1518.8 | 459.9  | 125.3 | 113.3 | 130.4  | 145.9  | 190.5  | 180.2  | 152.7  | 133.9  |
| 72.5° | 1754.0 | 1246.0 | 247.1  | 103.0 | 99.5  | 123.6  | 142.4  | 175.1  | 154.5  | 125.3  | 113.3  |
| 75°   | 1347.2 | 885.6  | 151.0  | 80.7  | 82.4  | 109.8  | 132.1  | 166.5  | 147.6  | 120.1  | 104.7  |
| 77.5° | 777.4  | 410.2  | 108.1  | 60.1  | 58.4  | 87.5   | 118.4  | 154.5  | 144.2  | 116.7  | 101.3  |
| 80°   | 284.9  | 169.9  | 73.8   | 44.6  | 39.5  | 63.5   | 92.7   | 125.3  | 137.3  | 115.0  | 103.0  |
| 82.5° | 121.9  | 91.0   | 48.1   | 30.9  | 29.2  | 36.0   | 56.6   | 87.5   | 115.0  | 92.7   | 85.8   |
| 85°   | 17.2   | 17.2   | 17.2   | 15.4  | 17.2  | 22.3   | 24.0   | 42.9   | 63.5   | 34.3   | 34.3   |
| 87.5° | 6.9    | 6.9    | 6.9    | 6.9   | 8.6   | 8.6    | 6.9    | 6.9    | 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)