

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: P553605

Luminaire Tested: **VERD-G-CA2-160-727-U-T4**

Issue Date: 7/12/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P553605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-G-CA2-160-727-U-T4  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1460mA LEDS AND TYPE IV OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19176 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

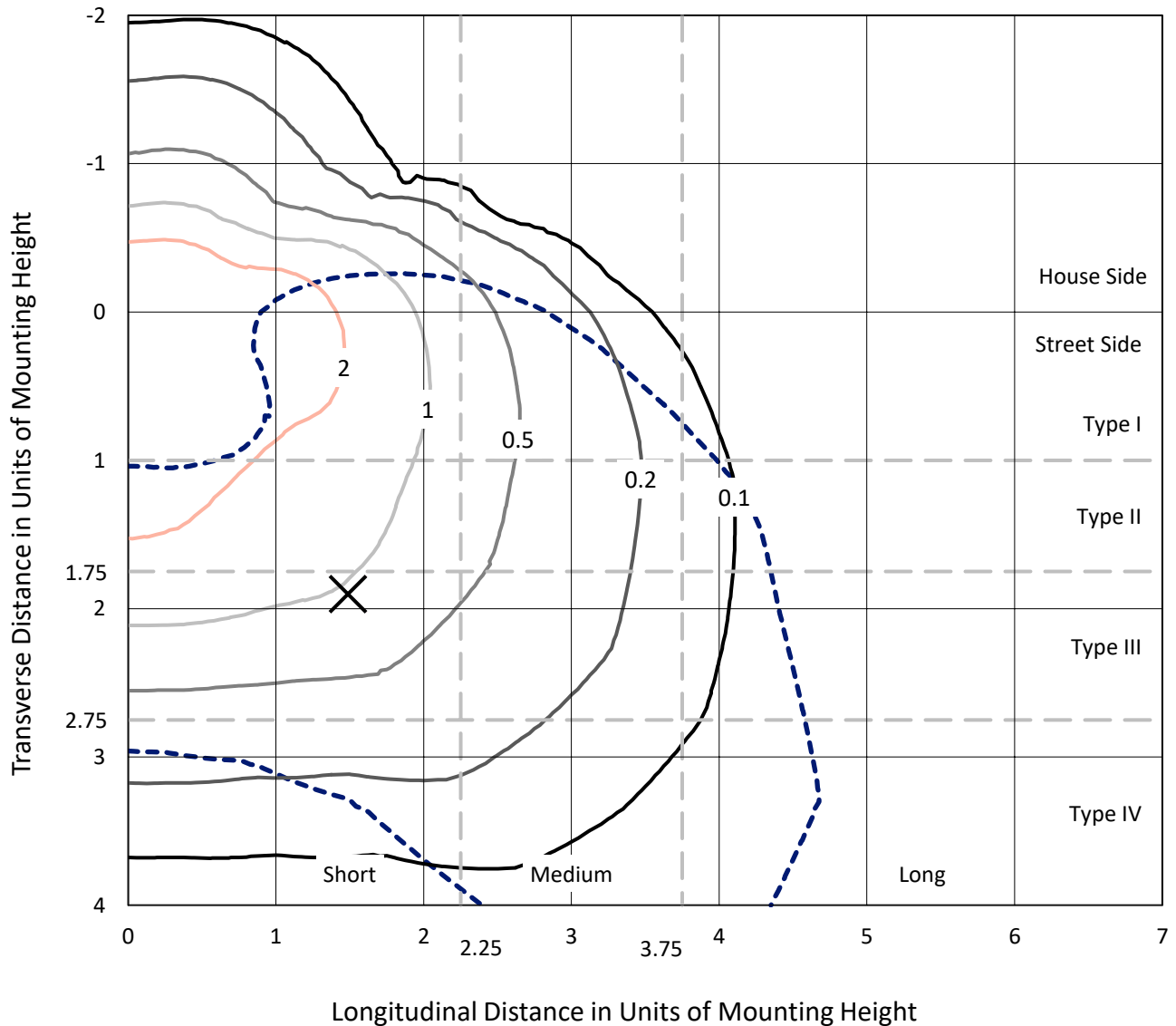
Input Watts (W): 162.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P553605  
 CATALOG NUMBER: VERD-G-CA2-160-727-U-T4

### Iso-Footcandle Lines of Horizontal Illumination

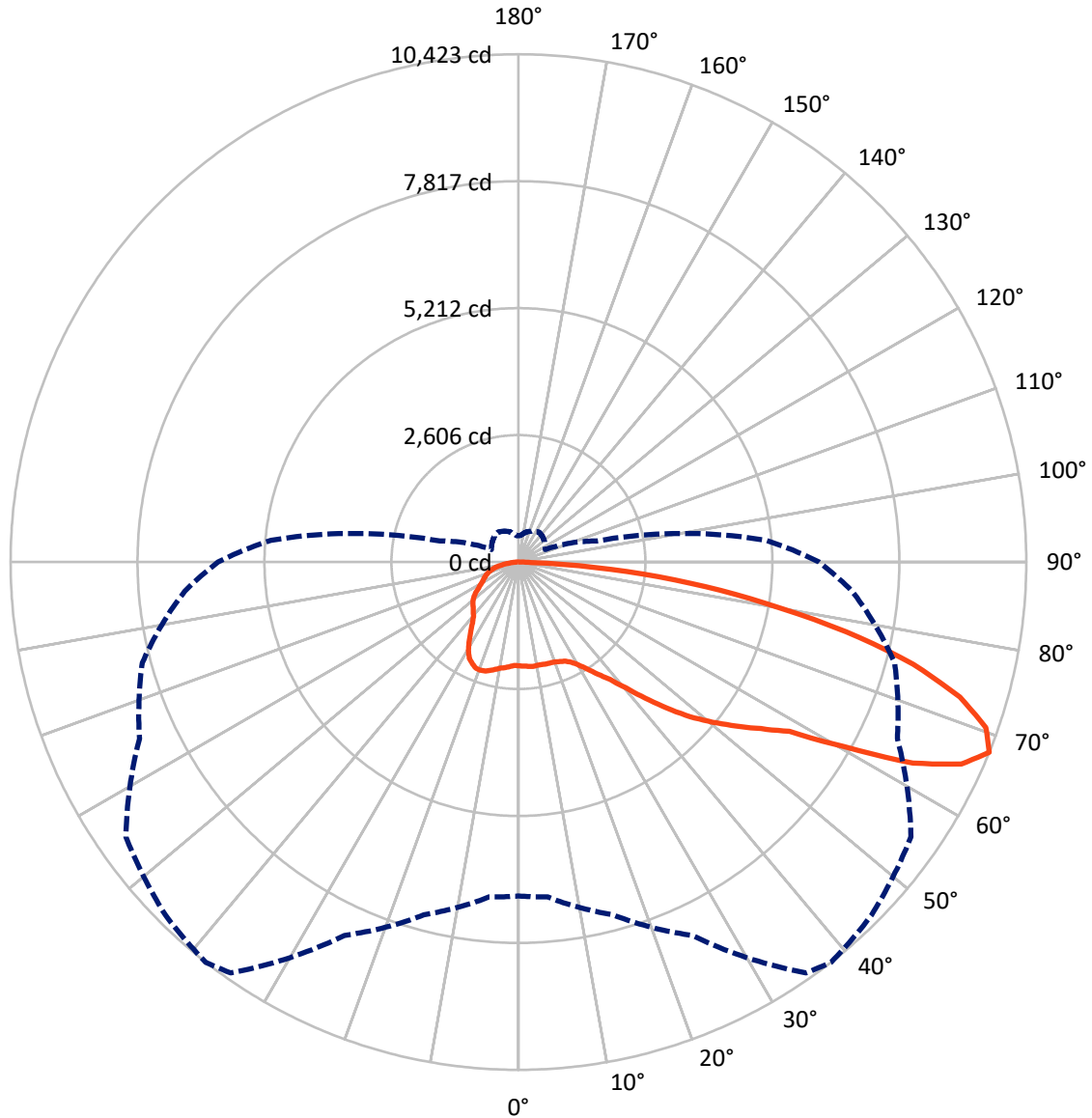
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P553605  
CATALOG NUMBER: VERD-G-CA2-160-727-U-T4

### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P553605  
 CATALOG NUMBER: VERD-G-CA2-160-727-U-T4

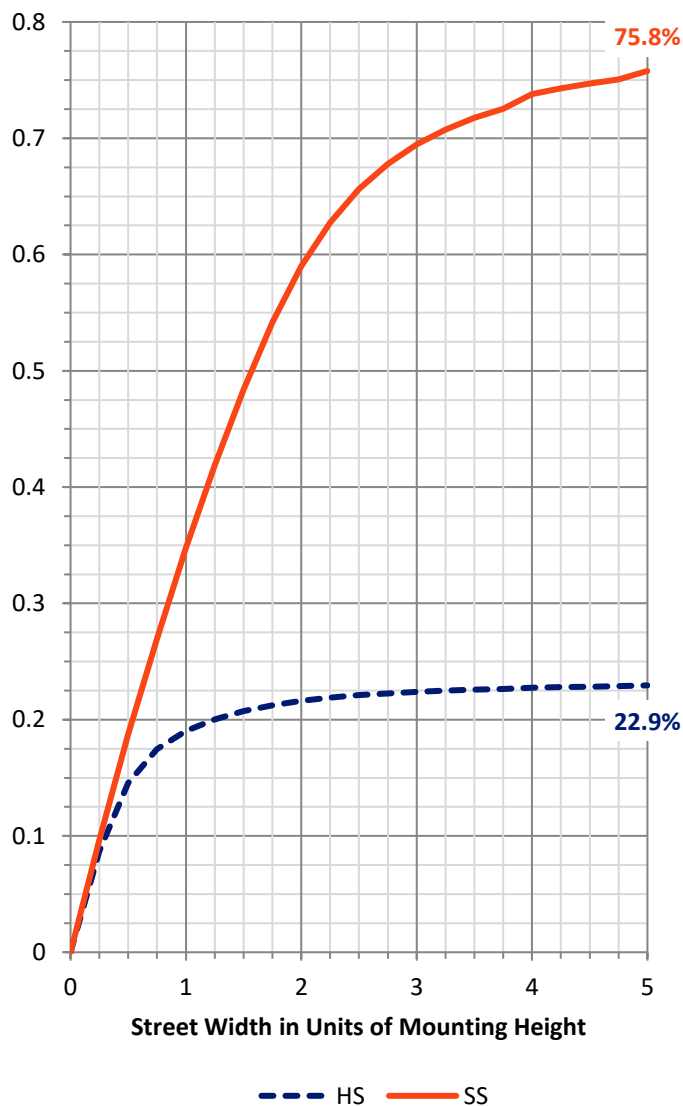
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4449.4   | 0.0    | 4449.4  |
|                    | % Fixture | 23.2     | 0.0    | 23.2    |
| <b>Street Side</b> | Lumens    | 14726.6  | 0.0    | 14726.6 |
|                    | % Fixture | 76.8     | 0.0    | 76.8    |
| <b>Total</b>       | Lumens    | 19176.0  | 0.0    | 19176.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 206.7   | 1.1       |
| 10°-20°   | 637.5   | 3.3       |
| 20°-30°   | 1080.5  | 5.6       |
| 30°-40°   | 1655.8  | 8.6       |
| 40°-50°   | 2728.3  | 14.2      |
| 50°-60°   | 3899.5  | 20.3      |
| 60°-70°   | 4857.7  | 25.3      |
| 70°-80°   | 3461.7  | 18.1      |
| 80°-90°   | 648.4   | 3.4       |
| 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°    | 19176.0 | 100.0     |
| 0°-180°   | 19176.0 | 100.0     |



REPORT NUMBER: P553605

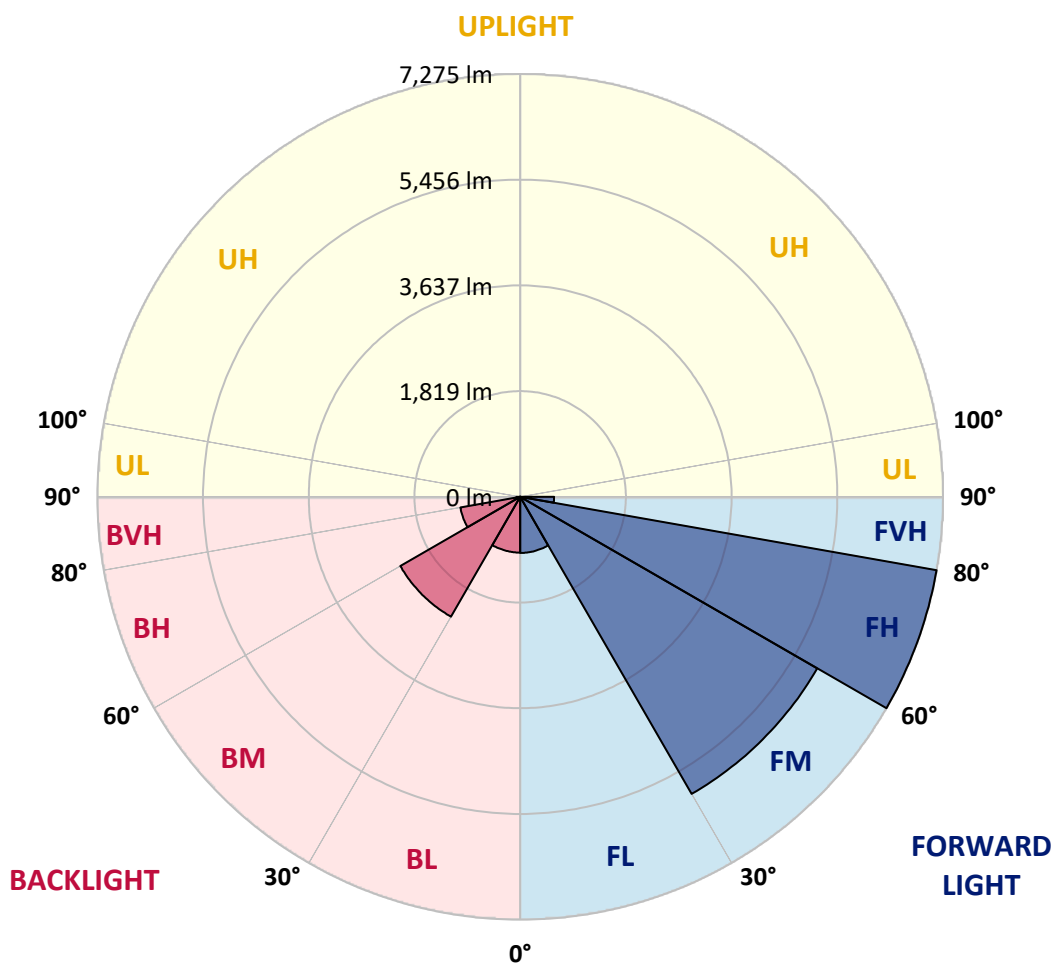
CATALOG NUMBER: VERD-G-CA2-160-727-U-T4

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 965.2  | 5.0       |                         |      |         |
| FM   | (30°-60°)   | 5901.9 | 30.8      |                         |      |         |
| FH   | (60°-80°)   | 7274.9 | 37.9      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 584.6  | 3.0       |                         |      | G4/750  |
| BL   | (0°-30°)    | 959.4  | 5.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2381.6 | 12.4      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1044.5 | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 63.9   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G4**

Type IV Short





REPORT NUMBER: P553605

CATALOG NUMBER: VERD-G-CA2-160-727-U-T4

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 38°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5  | 2130.5  | 2130.5  | 2130.5 | 2130.5 | 2130.5 | 2130.5 |
| 2.5°  | 2170.0 | 2178.9 | 2162.3 | 2159.8 | 2149.6  | 2136.9  | 2139.4  | 2129.2 | 2116.5 | 2121.6 | 2124.1 |
| 5°    | 2182.7 | 2182.7 | 2170.0 | 2157.3 | 2152.2  | 2149.6  | 2152.2  | 2140.7 | 2138.1 | 2147.1 | 2139.4 |
| 7.5°  | 2171.3 | 2178.9 | 2157.3 | 2157.3 | 2148.3  | 2163.6  | 2164.9  | 2150.9 | 2161.1 | 2161.1 | 2159.8 |
| 10°   | 2168.7 | 2171.3 | 2162.3 | 2144.5 | 2143.2  | 2152.2  | 2170.0  | 2175.1 | 2180.2 | 2178.9 | 2184.0 |
| 12.5° | 2139.4 | 2136.9 | 2119.0 | 2124.1 | 2148.3  | 2157.3  | 2187.8  | 2201.8 | 2221.0 | 2226.1 | 2228.6 |
| 15°   | 2102.5 | 2112.7 | 2113.9 | 2129.2 | 2154.7  | 2168.7  | 2199.3  | 2227.3 | 2269.4 | 2279.6 | 2278.3 |
| 17.5° | 2106.3 | 2110.1 | 2116.5 | 2125.4 | 2164.9  | 2171.3  | 2221.0  | 2251.5 | 2303.8 | 2339.5 | 2357.3 |
| 20°   | 2130.5 | 2122.8 | 2135.6 | 2158.5 | 2180.2  | 2185.3  | 2237.5  | 2284.7 | 2356.0 | 2403.2 | 2423.6 |
| 22.5° | 2171.3 | 2172.5 | 2178.9 | 2178.9 | 2194.2  | 2217.1  | 2265.6  | 2302.5 | 2390.4 | 2456.7 | 2492.4 |
| 25°   | 2209.5 | 2212.0 | 2219.7 | 2217.1 | 2242.6  | 2252.8  | 2298.7  | 2354.8 | 2455.4 | 2533.1 | 2602.0 |
| 27.5° | 2266.8 | 2274.5 | 2269.4 | 2270.7 | 2320.4  | 2330.5  | 2350.9  | 2426.1 | 2529.3 | 2633.8 | 2756.1 |
| 30°   | 2373.9 | 2373.9 | 2368.8 | 2373.9 | 2427.4  | 2452.9  | 2459.2  | 2533.1 | 2617.2 | 2743.4 | 2928.2 |
| 32.5° | 2528.0 | 2529.3 | 2497.5 | 2523.0 | 2582.8  | 2627.4  | 2646.6  | 2763.8 | 2858.1 | 2919.2 | 3157.5 |
| 35°   | 2858.1 | 2844.1 | 2810.9 | 2737.0 | 2775.2  | 2830.0  | 2891.2  | 3040.3 | 3248.0 | 3476.1 | 3715.6 |
| 37.5° | 3363.9 | 3362.7 | 3245.4 | 3097.6 | 3031.4  | 3059.4  | 3144.8  | 3367.8 | 3692.7 | 4262.3 | 4473.8 |
| 40°   | 3925.9 | 3939.9 | 3770.4 | 3585.6 | 3390.7  | 3393.2  | 3414.9  | 3694.0 | 4164.1 | 4987.3 | 5098.1 |
| 42.5° | 4486.5 | 4463.6 | 4276.3 | 4099.2 | 3834.1  | 3817.6  | 3760.2  | 4024.0 | 4657.3 | 5567.1 | 5582.3 |
| 45°   | 4986.0 | 4974.5 | 4766.8 | 4587.2 | 4337.4  | 4273.7  | 4208.7  | 4376.9 | 5127.5 | 6036.0 | 5935.3 |
| 47.5° | 5454.9 | 5470.2 | 5183.5 | 5021.7 | 4774.5  | 4742.6  | 4667.5  | 4774.5 | 5592.5 | 6404.2 | 6222.0 |
| 50°   | 5988.8 | 5995.2 | 5652.4 | 5452.4 | 5207.7  | 5167.0  | 5137.6  | 5274.0 | 6072.9 | 6755.9 | 6513.8 |
| 52.5° | 6586.4 | 6461.6 | 6127.7 | 5852.5 | 5618.0  | 5587.4  | 5570.9  | 5713.6 | 6599.2 | 7064.3 | 6706.2 |
| 55°   | 7338.2 | 7171.3 | 6829.8 | 6373.6 | 6032.1  | 6037.2  | 5979.9  | 6146.8 | 7042.6 | 7277.1 | 6893.5 |
| 57.5° | 7667.0 | 7705.2 | 7641.5 | 7226.1 | 6627.2  | 6553.3  | 6411.9  | 6540.6 | 7464.4 | 7526.8 | 7041.3 |
| 60°   | 8286.2 | 8434.0 | 8296.4 | 8064.5 | 7887.4  | 7693.7  | 7003.1  | 7051.5 | 7849.2 | 7803.3 | 7057.9 |
| 62.5° | 8328.3 | 8379.3 | 8813.8 | 8850.7 | 9022.7  | 9087.7  | 8515.6  | 7631.3 | 8198.3 | 7942.2 | 7114.0 |
| 65°   | 7915.4 | 7972.8 | 8496.5 | 8956.5 | 9903.2  | 9992.4  | 9811.5  | 8692.7 | 8481.2 | 8017.4 | 7069.4 |
| 67.5° | 6854.0 | 6901.2 | 7496.2 | 8457.0 | 10294.4 | 10423.1 | 10247.3 | 9834.4 | 8580.6 | 7991.9 | 6873.1 |
| 70°   | 5862.7 | 5889.4 | 6383.8 | 7728.1 | 10025.5 | 10177.2 | 10107.1 | 9877.7 | 8576.8 | 7841.5 | 6439.9 |
| 72.5° | 4605.0 | 4682.8 | 5081.6 | 6409.3 | 9346.4  | 9473.8  | 9494.2  | 9611.4 | 8358.9 | 7347.1 | 5471.5 |
| 75°   | 3339.7 | 3381.8 | 3834.1 | 4979.6 | 8067.1  | 8371.6  | 8729.7  | 9171.8 | 7539.5 | 6237.3 | 4045.6 |
| 77.5° | 2353.5 | 2394.3 | 2819.8 | 3775.5 | 6529.1  | 6875.7  | 7523.0  | 7782.9 | 6117.5 | 4675.1 | 2129.2 |
| 80°   | 1549.4 | 1544.4 | 1949.6 | 2794.4 | 4899.4  | 5142.7  | 5623.1  | 5275.3 | 3550.0 | 2032.4 | 231.9  |
| 82.5° | 909.8  | 960.8  | 1248.7 | 1920.2 | 3423.8  | 3558.9  | 3546.1  | 2777.8 | 1409.3 | 210.2  | 118.5  |
| 85°   | 525.0  | 544.1  | 736.5  | 1137.9 | 1887.1  | 1906.2  | 1707.5  | 1078.0 | 349.1  | 94.3   | 70.1   |
| 87.5° | 234.5  | 225.5  | 293.1  | 375.9  | 344.0   | 256.1   | 159.3   | 44.6   | 26.8   | 17.8   | 11.5   |
| 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: P553605  
 CATALOG NUMBER: VERD-G-CA2-160-727-U-T4

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 | 2130.5 |
| 2.5°  | 2113.9 | 2107.6 | 2139.4 | 2121.6 | 2136.9 | 2127.9 | 2120.3 | 2130.5 | 2149.6 | 2166.2 | 2156.0 |
| 5°    | 2130.5 | 2134.3 | 2159.8 | 2138.1 | 2158.5 | 2154.7 | 2144.5 | 2156.0 | 2186.6 | 2201.8 | 2200.6 |
| 7.5°  | 2149.6 | 2152.2 | 2178.9 | 2170.0 | 2178.9 | 2171.3 | 2187.8 | 2180.2 | 2206.9 | 2217.1 | 2210.8 |
| 10°   | 2172.5 | 2176.4 | 2200.6 | 2201.8 | 2205.7 | 2200.6 | 2208.2 | 2212.0 | 2227.3 | 2247.7 | 2235.0 |
| 12.5° | 2222.2 | 2231.2 | 2249.0 | 2268.1 | 2265.6 | 2245.2 | 2251.5 | 2231.2 | 2245.2 | 2251.5 | 2261.7 |
| 15°   | 2291.0 | 2312.7 | 2322.9 | 2349.7 | 2325.4 | 2314.0 | 2289.8 | 2249.0 | 2236.3 | 2229.9 | 2219.7 |
| 17.5° | 2364.9 | 2385.3 | 2404.4 | 2438.9 | 2399.4 | 2368.8 | 2326.7 | 2250.3 | 2192.9 | 2172.5 | 2163.6 |
| 20°   | 2447.8 | 2466.9 | 2501.3 | 2524.2 | 2465.6 | 2399.4 | 2331.8 | 2219.7 | 2106.3 | 2028.6 | 2037.5 |
| 22.5° | 2540.8 | 2582.8 | 2605.8 | 2599.4 | 2516.6 | 2426.1 | 2310.2 | 2139.4 | 1994.2 | 1878.2 | 1870.6 |
| 25°   | 2669.5 | 2693.7 | 2702.6 | 2644.0 | 2544.6 | 2407.0 | 2237.5 | 2043.8 | 1841.2 | 1711.3 | 1692.2 |
| 27.5° | 2804.6 | 2830.0 | 2782.9 | 2673.3 | 2535.7 | 2362.4 | 2156.0 | 1880.7 | 1664.1 | 1539.3 | 1525.2 |
| 30°   | 2977.8 | 2971.5 | 2837.7 | 2664.4 | 2484.7 | 2255.4 | 2006.9 | 1713.8 | 1513.8 | 1397.8 | 1391.4 |
| 32.5° | 3166.4 | 3119.3 | 2882.3 | 2621.1 | 2387.9 | 2115.2 | 1817.0 | 1555.8 | 1401.6 | 1285.7 | 1280.6 |
| 35°   | 3612.4 | 3395.8 | 2947.3 | 2566.3 | 2245.2 | 1921.5 | 1641.2 | 1437.3 | 1312.4 | 1181.2 | 1155.7 |
| 37.5° | 4267.4 | 3918.2 | 3081.1 | 2510.2 | 2082.1 | 1730.4 | 1494.7 | 1349.4 | 1230.9 | 1090.7 | 1066.5 |
| 40°   | 4877.7 | 4449.6 | 3315.5 | 2468.2 | 1935.5 | 1576.2 | 1394.0 | 1288.2 | 1173.6 | 1033.4 | 1002.8 |
| 42.5° | 5310.9 | 4862.4 | 3597.1 | 2399.4 | 1789.0 | 1453.9 | 1351.9 | 1265.3 | 1158.3 | 1028.3 | 1004.1 |
| 45°   | 5660.1 | 5219.2 | 3876.2 | 2321.6 | 1617.0 | 1349.4 | 1308.6 | 1246.2 | 1139.2 | 1013.0 | 985.0  |
| 47.5° | 5906.0 | 5443.5 | 4069.9 | 2233.7 | 1452.6 | 1285.7 | 1271.7 | 1215.6 | 1109.8 | 991.3  | 973.5  |
| 50°   | 6159.6 | 5694.5 | 4202.4 | 2143.2 | 1304.8 | 1237.3 | 1220.7 | 1146.8 | 1050.0 | 944.2  | 925.1  |
| 52.5° | 6325.2 | 5816.8 | 4278.8 | 2125.4 | 1178.7 | 1171.0 | 1150.6 | 1080.5 | 988.8  | 874.1  | 851.2  |
| 55°   | 6451.4 | 5925.1 | 4267.4 | 2020.9 | 1065.2 | 1084.4 | 1071.6 | 1019.4 | 939.1  | 827.0  | 811.7  |
| 57.5° | 6481.9 | 5941.7 | 4162.9 | 1697.3 | 958.2  | 968.4  | 974.8  | 985.0  | 907.2  | 814.2  | 788.7  |
| 60°   | 6569.9 | 5864.0 | 3978.1 | 1220.7 | 832.1  | 857.5  | 908.5  | 917.4  | 863.9  | 758.2  | 742.9  |
| 62.5° | 6513.8 | 5811.7 | 3576.7 | 860.1  | 742.9  | 795.1  | 843.5  | 843.5  | 769.6  | 671.5  | 661.3  |
| 65°   | 6415.7 | 5605.3 | 2798.2 | 677.9  | 695.7  | 749.2  | 793.8  | 763.3  | 699.5  | 607.8  | 601.4  |
| 67.5° | 6165.9 | 5102.0 | 1670.5 | 610.4  | 662.6  | 713.6  | 745.4  | 699.5  | 639.7  | 549.2  | 539.0  |
| 70°   | 5448.6 | 4066.0 | 635.8  | 578.5  | 629.5  | 665.1  | 685.5  | 638.4  | 579.8  | 489.3  | 480.4  |
| 72.5° | 4326.0 | 2543.3 | 403.9  | 539.0  | 587.4  | 619.3  | 632.0  | 577.2  | 484.2  | 381.0  | 370.8  |
| 75°   | 2603.2 | 726.3  | 350.4  | 466.4  | 517.3  | 572.1  | 550.5  | 479.1  | 409.0  | 319.8  | 313.5  |
| 77.5° | 658.8  | 220.4  | 312.2  | 375.9  | 420.5  | 485.5  | 484.2  | 432.0  | 356.8  | 261.2  | 251.0  |
| 80°   | 158.0  | 154.2  | 253.6  | 277.8  | 317.3  | 372.1  | 367.0  | 359.3  | 282.9  | 180.9  | 149.1  |
| 82.5° | 100.7  | 107.0  | 172.0  | 155.5  | 180.9  | 216.6  | 245.9  | 231.9  | 211.5  | 110.9  | 99.4   |
| 85°   | 67.5   | 85.4   | 84.1   | 58.6   | 81.5   | 122.3  | 159.3  | 145.3  | 119.8  | 68.8   | 61.2   |
| 87.5° | 10.2   | 11.5   | 15.3   | 22.9   | 35.7   | 59.9   | 79.0   | 77.7   | 58.6   | 43.3   | 40.8   |
| 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)