

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: P507529

Luminaire Tested: **VERD-S-CA1-40-727-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-40-727-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 760mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5174 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

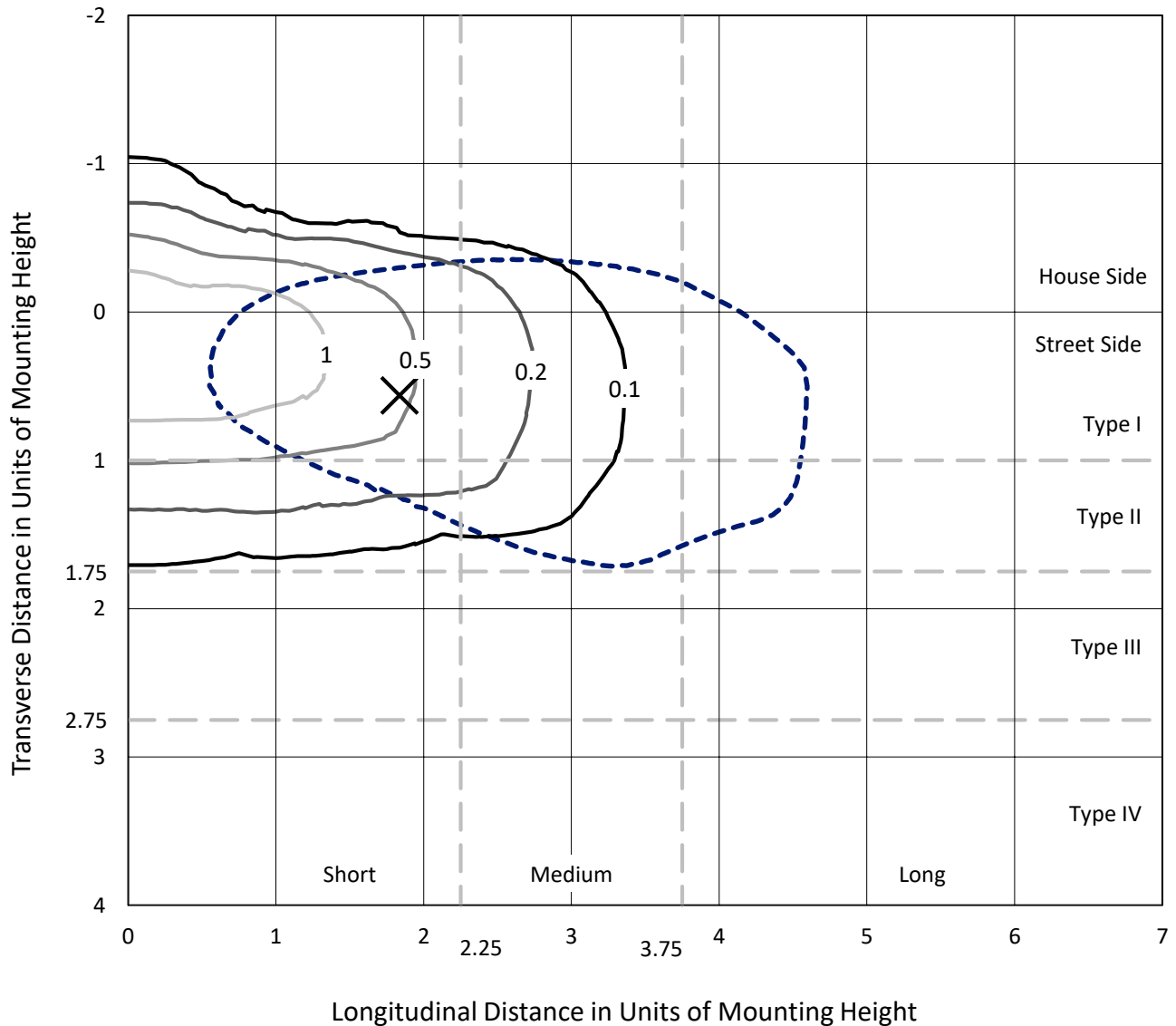


REPORT NUMBER: P507529

CATALOG NUMBER: VERD-S-CA1-40-727-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

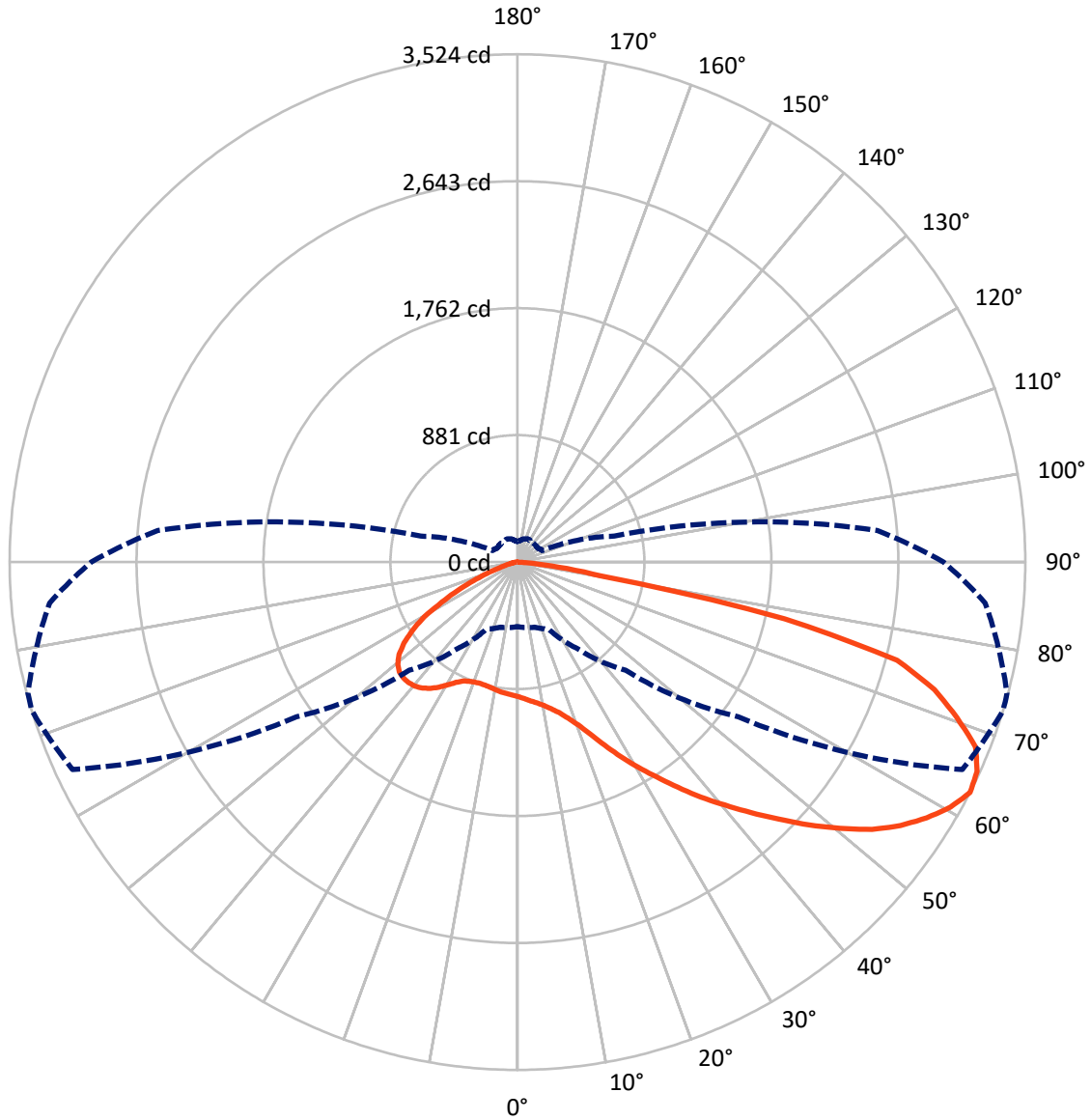
✕ Max cd  
 - - - 1/2 Max cd



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

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CATALOG NUMBER: VERD-S-CA1-40-727-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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CATALOG NUMBER: VERD-S-CA1-40-727-U-T2

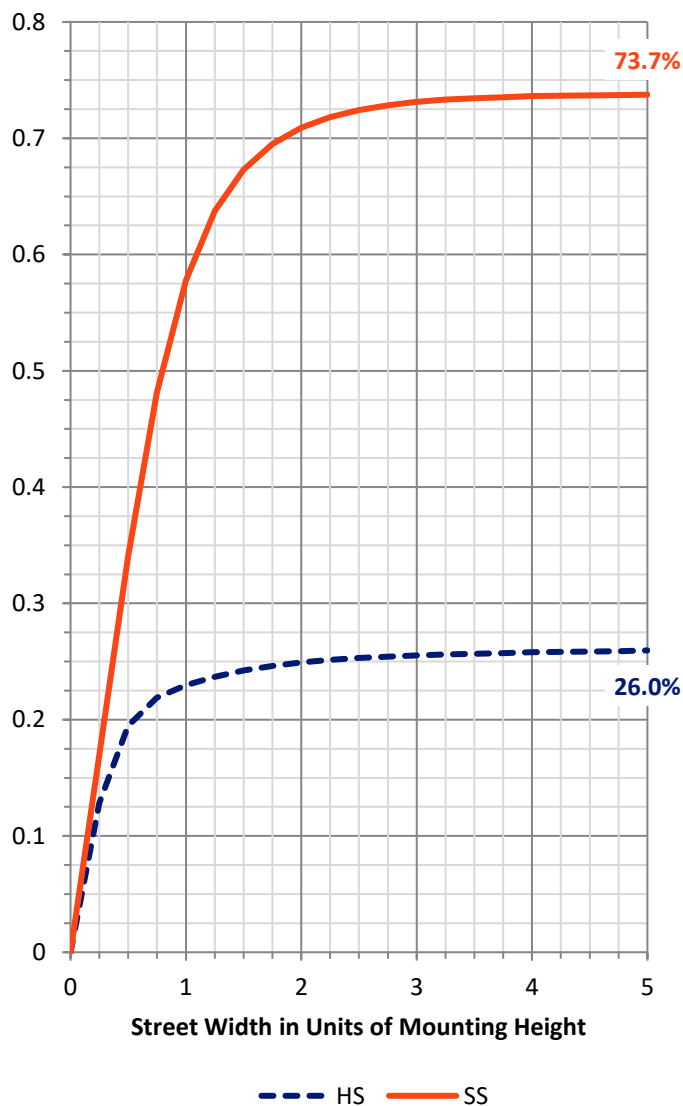
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1362.9   | 0.0    | 1362.9 |
|                    | % Fixture | 26.3     | 0.0    | 26.3   |
| <b>Street Side</b> | Lumens    | 3811.1   | 0.0    | 3811.1 |
|                    | % Fixture | 73.7     | 0.0    | 73.7   |
| <b>Total</b>       | Lumens    | 5174.0   | 0.0    | 5174.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.3   | 1.7       |
| 10°-20°   | 276.1  | 5.3       |
| 20°-30°   | 477.9  | 9.2       |
| 30°-40°   | 692.1  | 13.4      |
| 40°-50°   | 886.5  | 17.1      |
| 50°-60°   | 1026.3 | 19.8      |
| 60°-70°   | 1033.5 | 20.0      |
| 70°-80°   | 631.8  | 12.2      |
| 80°-90°   | 59.5   | 1.1       |
| 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°    | 5174.0 | 100.0     |
| 0°-180°   | 5174.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P507529

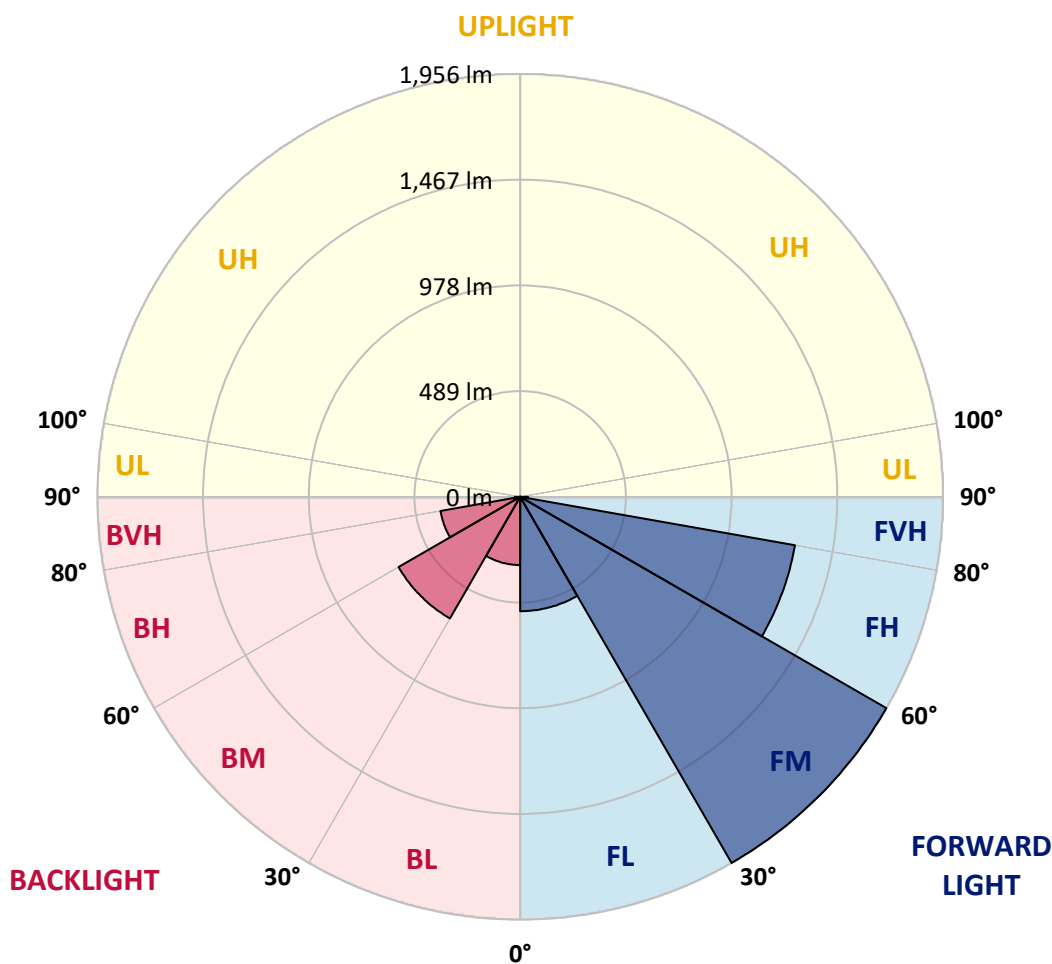
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 528.8  | 10.2      |                         |      |         |
| FM (30°-60°)   | 1955.6 | 37.8      |                         |      |         |
| FH (60°-80°)   | 1290.7 | 24.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 35.9   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 315.5  | 6.1       | B1/500                  |      |         |
| BM (30°-60°)   | 649.3  | 12.5      | B1/1000                 |      |         |
| BH (60°-80°)   | 374.6  | 7.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 23.6   | 0.5       |                         |      | 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 II Short





REPORT NUMBER: P507529  
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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 73°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 934.6  | 934.6  | 934.6  | 934.6  | 934.6  | 934.6  | 934.6  | 934.6  | 934.6  | 934.6  | 934.6  |
| 2.5°  | 982.7  | 981.2  | 978.3  | 976.9  | 973.9  | 966.6  | 962.3  | 955.0  | 949.2  | 947.7  | 938.9  |
| 5°    | 1030.8 | 1032.3 | 1030.8 | 1026.4 | 1020.6 | 1010.4 | 995.8  | 976.9  | 968.1  | 965.2  | 950.6  |
| 7.5°  | 1076.0 | 1076.0 | 1074.5 | 1068.7 | 1062.9 | 1049.8 | 1029.3 | 1007.5 | 987.1  | 981.2  | 962.3  |
| 10°   | 1119.7 | 1119.7 | 1115.4 | 1109.5 | 1100.8 | 1084.7 | 1064.3 | 1036.6 | 1011.8 | 1003.1 | 971.0  |
| 12.5° | 1166.4 | 1164.9 | 1159.1 | 1150.4 | 1138.7 | 1125.6 | 1103.7 | 1073.1 | 1045.4 | 1035.2 | 990.0  |
| 15°   | 1202.8 | 1202.8 | 1198.5 | 1192.6 | 1182.4 | 1166.4 | 1146.0 | 1119.7 | 1083.3 | 1074.5 | 1016.2 |
| 17.5° | 1234.9 | 1236.4 | 1233.5 | 1233.5 | 1224.7 | 1213.0 | 1195.6 | 1173.7 | 1138.7 | 1125.6 | 1055.6 |
| 20°   | 1261.2 | 1259.7 | 1265.5 | 1269.9 | 1272.8 | 1265.5 | 1255.3 | 1240.8 | 1205.8 | 1192.6 | 1106.6 |
| 22.5° | 1272.8 | 1275.7 | 1293.2 | 1315.1 | 1328.2 | 1329.7 | 1328.2 | 1326.8 | 1296.2 | 1278.7 | 1176.6 |
| 25°   | 1278.7 | 1283.0 | 1309.3 | 1347.2 | 1376.3 | 1398.2 | 1421.5 | 1436.1 | 1408.4 | 1395.3 | 1281.6 |
| 27.5° | 1284.5 | 1288.9 | 1319.5 | 1366.1 | 1421.5 | 1474.0 | 1520.7 | 1548.4 | 1528.0 | 1511.9 | 1389.5 |
| 30°   | 1274.3 | 1278.7 | 1313.7 | 1379.3 | 1458.0 | 1549.8 | 1615.5 | 1654.8 | 1651.9 | 1641.7 | 1513.4 |
| 32.5° | 1252.4 | 1256.8 | 1296.2 | 1377.8 | 1495.9 | 1627.1 | 1700.0 | 1765.6 | 1778.8 | 1768.5 | 1637.3 |
| 35°   | 1213.0 | 1218.9 | 1264.1 | 1360.3 | 1513.4 | 1691.3 | 1789.0 | 1885.2 | 1918.7 | 1920.2 | 1772.9 |
| 37.5° | 1159.1 | 1162.0 | 1217.4 | 1326.8 | 1519.2 | 1736.5 | 1863.3 | 2000.4 | 2068.9 | 2070.3 | 1911.4 |
| 40°   | 1086.2 | 1093.5 | 1162.0 | 1284.5 | 1506.1 | 1768.5 | 1937.7 | 2125.8 | 2216.1 | 2205.9 | 2061.6 |
| 42.5° | 1003.1 | 1008.9 | 1076.0 | 1217.4 | 1475.5 | 1787.5 | 2006.2 | 2257.0 | 2376.5 | 2370.7 | 2203.0 |
| 45°   | 928.7  | 937.5  | 988.5  | 1124.1 | 1417.2 | 1791.9 | 2066.0 | 2388.2 | 2542.7 | 2535.4 | 2347.4 |
| 47.5° | 829.6  | 851.5  | 920.0  | 1041.0 | 1329.7 | 1772.9 | 2119.9 | 2566.1 | 2726.4 | 2716.2 | 2499.0 |
| 50°   | 638.6  | 645.9  | 790.2  | 971.0  | 1230.5 | 1726.3 | 2166.6 | 2730.8 | 2904.3 | 2897.0 | 2657.9 |
| 52.5° | 575.9  | 581.7  | 628.4  | 890.8  | 1131.4 | 1643.2 | 2194.3 | 2942.2 | 3082.2 | 3061.8 | 2800.8 |
| 55°   | 540.9  | 546.7  | 573.0  | 711.5  | 1045.4 | 1517.8 | 2200.1 | 3121.6 | 3226.5 | 3207.6 | 2934.9 |
| 57.5° | 508.8  | 513.2  | 538.0  | 609.4  | 946.2  | 1344.3 | 2169.5 | 3265.9 | 3349.0 | 3330.1 | 3056.0 |
| 60°   | 475.3  | 479.7  | 505.9  | 554.0  | 823.8  | 1185.3 | 2068.9 | 3378.2 | 3452.5 | 3433.6 | 3165.3 |
| 62.5° | 447.6  | 454.9  | 468.0  | 513.2  | 736.3  | 1061.4 | 1872.1 | 3405.9 | 3524.0 | 3516.7 | 3258.6 |
| 65°   | 414.1  | 417.0  | 437.4  | 473.8  | 650.3  | 975.4  | 1660.7 | 3325.7 | 3505.0 | 3518.1 | 3314.0 |
| 67.5° | 376.2  | 377.6  | 396.6  | 422.8  | 543.8  | 890.8  | 1472.6 | 3217.8 | 3429.2 | 3451.1 | 3273.2 |
| 70°   | 325.1  | 326.6  | 344.1  | 371.8  | 450.5  | 772.7  | 1278.7 | 3058.9 | 3235.3 | 3255.7 | 3115.7 |
| 72.5° | 271.2  | 271.2  | 285.8  | 316.4  | 371.8  | 640.1  | 1023.5 | 2710.4 | 3026.8 | 3060.3 | 2859.1 |
| 75°   | 118.1  | 122.5  | 147.3  | 176.4  | 240.6  | 470.9  | 698.4  | 2098.1 | 2720.6 | 2743.9 | 2506.3 |
| 77.5° | 32.1   | 32.1   | 37.9   | 49.6   | 70.0   | 210.0  | 221.6  | 922.9  | 1895.4 | 1955.2 | 1853.1 |
| 80°   | 26.2   | 26.2   | 29.2   | 37.9   | 48.1   | 103.5  | 74.4   | 297.4  | 586.1  | 772.7  | 960.8  |
| 82.5° | 14.6   | 14.6   | 17.5   | 21.9   | 26.2   | 26.2   | 26.2   | 151.6  | 288.7  | 307.6  | 402.4  |
| 85°   | 7.3    | 8.7    | 8.7    | 10.2   | 10.2   | 8.7    | 8.7    | 30.6   | 55.4   | 62.7   | 96.2   |
| 87.5° | 2.9    | 2.9    | 2.9    | 2.9    | 1.5    | 1.5    | 2.9    | 4.4    | 4.4    | 5.8    | 7.3    |
| 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: P507529  
 CATALOG NUMBER: VERD-S-CA1-40-727-U-T2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 934.6  | 934.6  | 934.6  | 934.6 | 934.6 | 934.6 | 934.6 | 934.6 | 934.6 | 934.6 | 934.6 |
| 2.5°  | 936.0  | 931.7  | 925.8  | 921.5 | 912.7 | 904.0 | 898.1 | 893.7 | 892.3 | 890.8 | 890.8 |
| 5°    | 941.9  | 934.6  | 918.5  | 902.5 | 889.4 | 877.7 | 867.5 | 860.2 | 857.3 | 855.8 | 855.8 |
| 7.5°  | 950.6  | 940.4  | 914.2  | 890.8 | 867.5 | 850.0 | 834.0 | 823.8 | 817.9 | 819.4 | 823.8 |
| 10°   | 955.0  | 938.9  | 904.0  | 880.6 | 850.0 | 822.3 | 803.4 | 791.7 | 787.3 | 787.3 | 785.9 |
| 12.5° | 966.6  | 943.3  | 896.7  | 860.2 | 834.0 | 796.1 | 774.2 | 764.0 | 758.2 | 749.4 | 746.5 |
| 15°   | 984.1  | 955.0  | 893.7  | 845.6 | 804.8 | 771.3 | 742.1 | 727.5 | 723.2 | 711.5 | 711.5 |
| 17.5° | 1016.2 | 975.4  | 893.7  | 829.6 | 777.1 | 745.0 | 707.1 | 686.7 | 683.8 | 676.5 | 675.1 |
| 20°   | 1054.1 | 1003.1 | 901.0  | 813.6 | 748.0 | 705.7 | 663.4 | 643.0 | 635.7 | 628.4 | 628.4 |
| 22.5° | 1113.9 | 1045.4 | 914.2  | 801.9 | 717.3 | 664.8 | 618.2 | 589.0 | 577.4 | 575.9 | 573.0 |
| 25°   | 1205.8 | 1112.4 | 934.6  | 790.2 | 686.7 | 619.6 | 573.0 | 535.1 | 516.1 | 513.2 | 511.8 |
| 27.5° | 1306.4 | 1204.3 | 975.4  | 780.0 | 653.2 | 568.6 | 513.2 | 472.4 | 449.1 | 446.1 | 444.7 |
| 30°   | 1414.3 | 1299.1 | 1029.3 | 771.3 | 610.9 | 510.3 | 447.6 | 408.2 | 386.4 | 380.5 | 382.0 |
| 32.5° | 1532.4 | 1401.1 | 1087.7 | 764.0 | 565.7 | 434.5 | 376.2 | 349.9 | 326.6 | 316.4 | 317.8 |
| 35°   | 1647.5 | 1491.5 | 1138.7 | 758.2 | 505.9 | 366.0 | 320.8 | 293.1 | 269.7 | 256.6 | 256.6 |
| 37.5° | 1777.3 | 1598.0 | 1181.0 | 746.5 | 441.8 | 319.3 | 275.6 | 247.9 | 230.4 | 218.7 | 218.7 |
| 40°   | 1904.1 | 1704.4 | 1214.5 | 724.6 | 370.3 | 281.4 | 227.4 | 211.4 | 199.7 | 192.5 | 189.5 |
| 42.5° | 2028.1 | 1810.8 | 1236.4 | 688.2 | 310.6 | 236.2 | 189.5 | 188.1 | 189.5 | 182.2 | 180.8 |
| 45°   | 2156.4 | 1915.8 | 1252.4 | 629.9 | 268.3 | 195.4 | 169.1 | 179.3 | 189.5 | 186.6 | 186.6 |
| 47.5° | 2296.3 | 2017.9 | 1265.5 | 535.1 | 227.4 | 172.0 | 167.7 | 177.9 | 191.0 | 192.5 | 192.5 |
| 50°   | 2430.5 | 2121.4 | 1261.2 | 414.1 | 199.7 | 170.6 | 169.1 | 172.0 | 189.5 | 193.9 | 191.0 |
| 52.5° | 2555.9 | 2210.3 | 1226.2 | 301.8 | 186.6 | 173.5 | 173.5 | 170.6 | 185.2 | 188.1 | 189.5 |
| 55°   | 2682.7 | 2293.4 | 1147.4 | 239.1 | 179.3 | 173.5 | 180.8 | 173.5 | 177.9 | 179.3 | 182.2 |
| 57.5° | 2797.9 | 2378.0 | 1030.8 | 214.3 | 177.9 | 173.5 | 180.8 | 176.4 | 176.4 | 170.6 | 169.1 |
| 60°   | 2886.8 | 2448.0 | 889.4  | 204.1 | 173.5 | 175.0 | 177.9 | 177.9 | 173.5 | 160.4 | 156.0 |
| 62.5° | 2956.8 | 2506.3 | 695.5  | 191.0 | 170.6 | 172.0 | 170.6 | 176.4 | 166.2 | 147.3 | 142.9 |
| 65°   | 2996.2 | 2516.5 | 532.2  | 176.4 | 163.3 | 169.1 | 164.8 | 163.3 | 154.5 | 134.1 | 125.4 |
| 67.5° | 2952.4 | 2445.1 | 371.8  | 161.8 | 154.5 | 164.8 | 157.5 | 151.6 | 141.4 | 122.5 | 110.8 |
| 70°   | 2783.3 | 2238.0 | 244.9  | 142.9 | 142.9 | 154.5 | 148.7 | 140.0 | 126.8 | 112.3 | 99.1  |
| 72.5° | 2465.5 | 1928.9 | 147.3  | 118.1 | 126.8 | 141.4 | 138.5 | 126.8 | 88.9  | 68.5  | 59.8  |
| 75°   | 2084.9 | 1584.8 | 94.8   | 88.9  | 103.5 | 126.8 | 128.3 | 113.7 | 75.8  | 61.2  | 61.2  |
| 77.5° | 1514.9 | 1041.0 | 55.4   | 49.6  | 68.5  | 102.1 | 109.3 | 83.1  | 81.6  | 113.7 | 83.1  |
| 80°   | 777.1  | 504.5  | 42.3   | 30.6  | 36.4  | 75.8  | 61.2  | 62.7  | 123.9 | 91.9  | 58.3  |
| 82.5° | 336.8  | 199.7  | 26.2   | 21.9  | 23.3  | 37.9  | 39.4  | 103.5 | 96.2  | 53.9  | 36.4  |
| 85°   | 71.4   | 37.9   | 14.6   | 14.6  | 14.6  | 17.5  | 21.9  | 112.3 | 59.8  | 27.7  | 11.7  |
| 87.5° | 7.3    | 7.3    | 7.3    | 7.3   | 7.3   | 7.3   | 5.8   | 5.8   | 5.8   | 4.4   | 4.4   |
| 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)