

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: P507570

Luminaire Tested: **VERD-S-CA1-50-722-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507570
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-50-722-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 940mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5624 lumens
Efficiency: N/A
Efficacy: 105.1 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

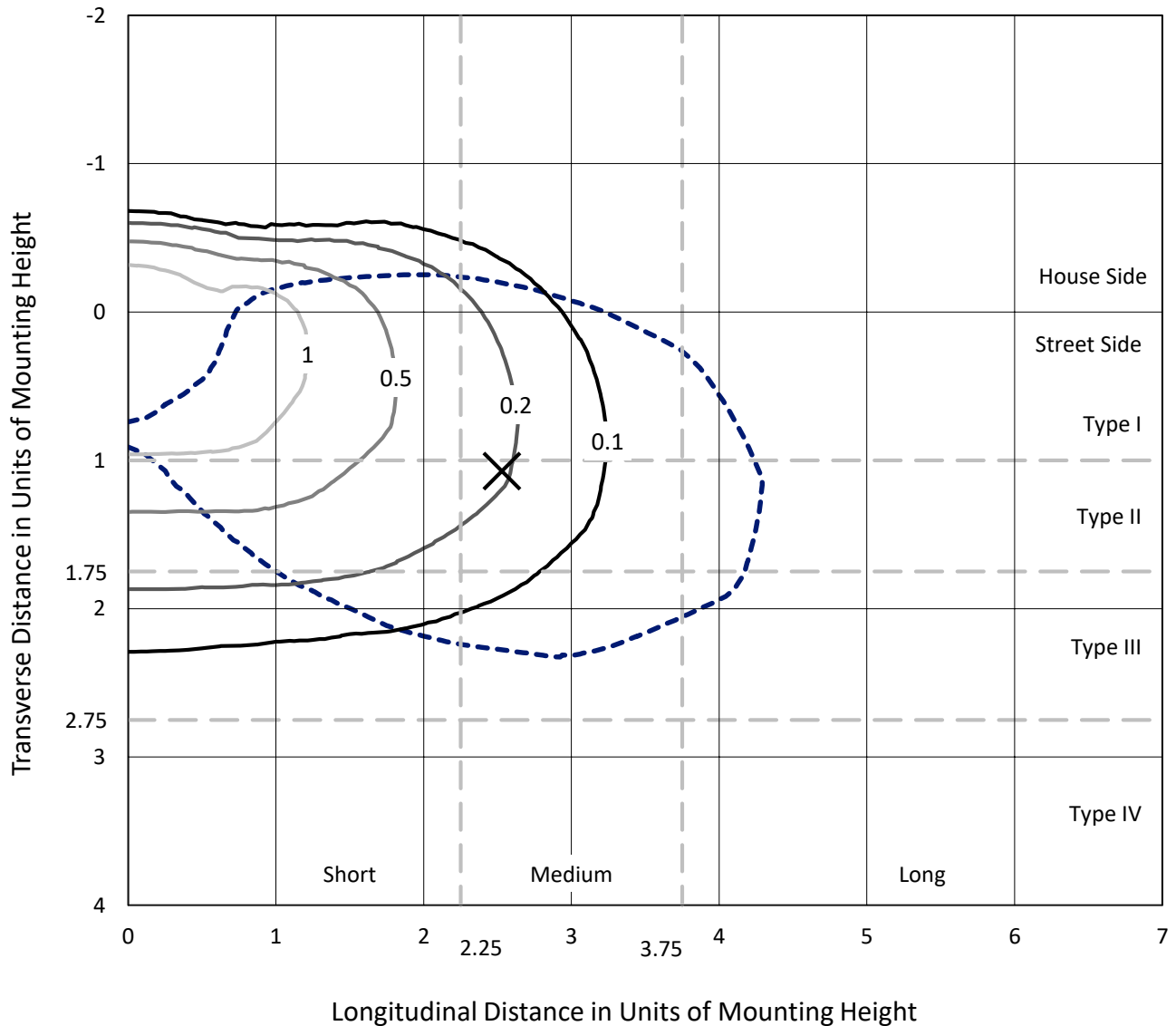
Input Watts (W): 53.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507570
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Iso-Footcandle Lines of Horizontal Illumination

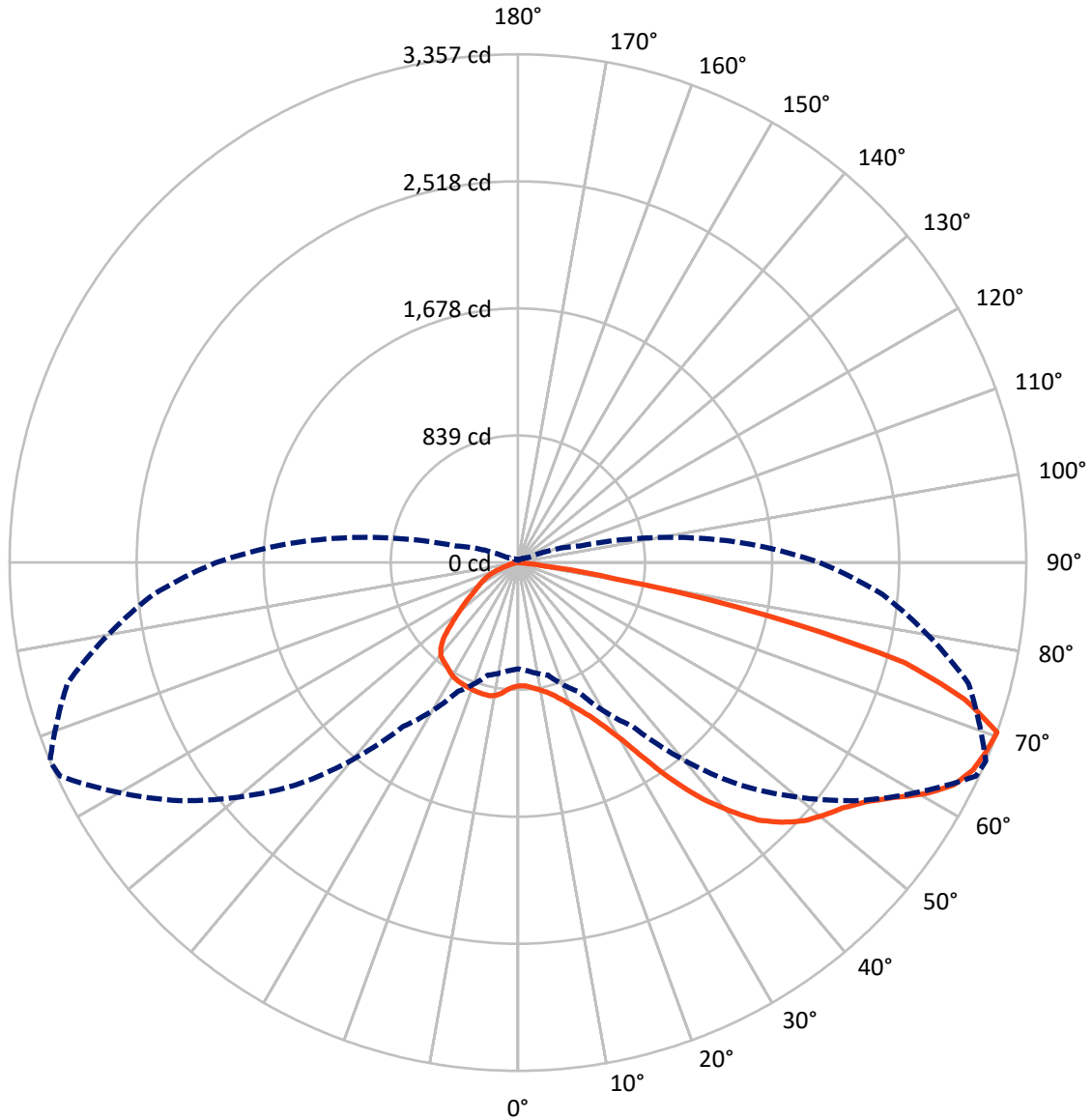
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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CATALOG NUMBER: VERD-S-CA1-50-722-U-T3-HSS

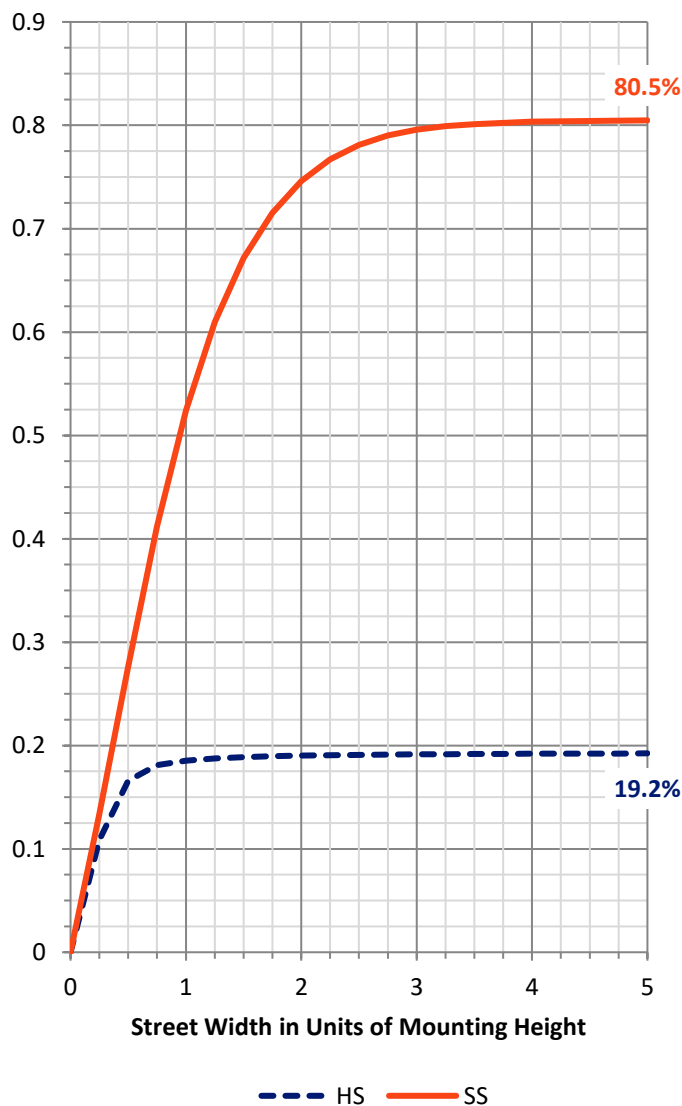
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1096.0 | 0.0 | 1096.0 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 4528.0 | 0.0 | 4528.0 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 5624.0 | 0.0 | 5624.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 82.0 | 1.5 |
| 10°-20° | 259.6 | 4.6 |
| 20°-30° | 451.2 | 8.0 |
| 30°-40° | 706.5 | 12.6 |
| 40°-50° | 994.1 | 17.7 |
| 50°-60° | 1185.6 | 21.1 |
| 60°-70° | 1228.5 | 21.8 |
| 70°-80° | 677.9 | 12.1 |
| 80°-90° | 38.6 | 0.7 |
| 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° | 5624.0 | 100.0 |
| 0°-180° | 5624.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P507570

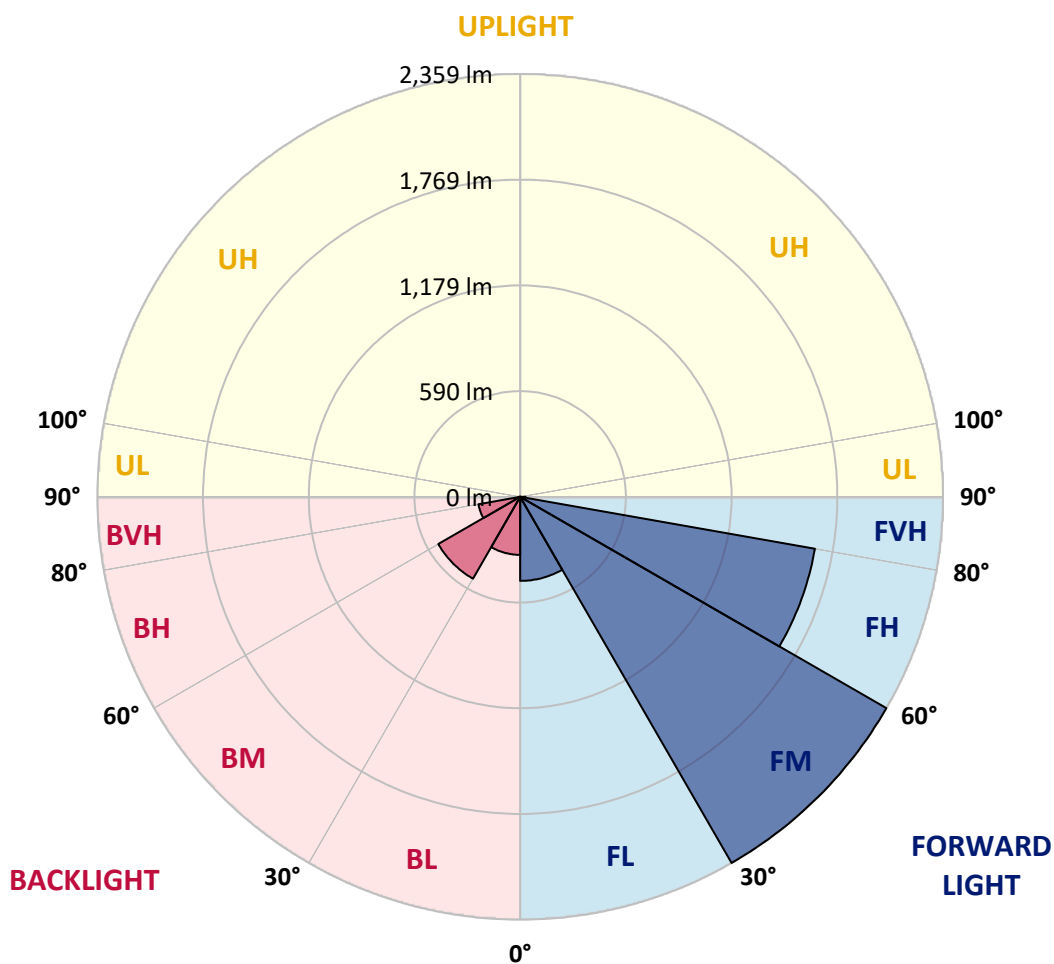
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 469.1 | 8.3 | | | |
| FM (30°-60°) | 2359.0 | 41.9 | | | |
| FH (60°-80°) | 1669.9 | 29.7 | | | G1/1800 |
| FVH (80°-90°) | 30.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 323.6 | 5.8 | B1/500 | | |
| BM (30°-60°) | 527.2 | 9.4 | B1/1000 | | |
| BH (60°-80°) | 236.6 | 4.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.6 | 0.2 | | | G0/10 |
| 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: P507570

CATALOG NUMBER: VERD-S-CA1-50-722-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 |
| 2.5° | 819.6 | 819.6 | 819.6 | 817.9 | 817.9 | 817.9 | 816.2 | 814.5 | 814.5 | 814.5 | 816.2 |
| 5° | 841.8 | 841.8 | 840.1 | 838.4 | 836.6 | 831.5 | 828.1 | 826.4 | 826.4 | 824.7 | 828.1 |
| 7.5° | 869.1 | 869.1 | 869.1 | 865.7 | 860.6 | 853.7 | 846.9 | 841.8 | 840.1 | 838.4 | 840.1 |
| 10° | 910.1 | 910.1 | 906.7 | 901.5 | 893.0 | 882.7 | 870.8 | 860.6 | 858.8 | 855.4 | 858.8 |
| 12.5° | 963.0 | 957.9 | 954.5 | 945.9 | 935.7 | 918.6 | 899.8 | 884.5 | 881.0 | 877.6 | 889.6 |
| 15° | 1017.6 | 1015.9 | 1007.4 | 1002.3 | 985.2 | 963.0 | 937.4 | 916.9 | 913.5 | 906.7 | 916.9 |
| 17.5° | 1082.5 | 1084.2 | 1080.8 | 1072.3 | 1048.4 | 1015.9 | 985.2 | 956.2 | 952.8 | 947.6 | 952.8 |
| 20° | 1171.3 | 1167.9 | 1161.1 | 1149.1 | 1121.8 | 1079.1 | 1039.8 | 1007.4 | 1002.3 | 998.9 | 993.7 |
| 22.5° | 1260.1 | 1261.8 | 1248.1 | 1236.2 | 1202.0 | 1161.1 | 1108.1 | 1068.9 | 1062.0 | 1060.3 | 1036.4 |
| 25° | 1345.5 | 1348.9 | 1343.8 | 1328.4 | 1299.4 | 1246.4 | 1188.4 | 1140.6 | 1132.0 | 1130.3 | 1089.4 |
| 27.5° | 1434.3 | 1436.0 | 1441.1 | 1434.3 | 1403.5 | 1348.9 | 1284.0 | 1229.4 | 1229.4 | 1215.7 | 1154.2 |
| 30° | 1519.6 | 1523.0 | 1526.5 | 1526.5 | 1511.1 | 1463.3 | 1406.9 | 1359.1 | 1359.1 | 1348.9 | 1243.0 |
| 32.5° | 1586.2 | 1587.9 | 1608.4 | 1625.5 | 1625.5 | 1591.3 | 1553.8 | 1548.7 | 1546.9 | 1565.7 | 1446.2 |
| 35° | 1646.0 | 1651.1 | 1680.1 | 1726.2 | 1745.0 | 1731.4 | 1733.1 | 1751.8 | 1770.6 | 1816.7 | 1726.2 |
| 37.5° | 1690.4 | 1697.2 | 1724.5 | 1777.5 | 1830.4 | 1866.2 | 1900.4 | 1951.6 | 1980.6 | 2050.6 | 1926.0 |
| 40° | 1702.3 | 1710.9 | 1768.9 | 1844.0 | 1929.4 | 2011.4 | 2072.8 | 2136.0 | 2154.8 | 2204.3 | 2047.2 |
| 42.5° | 1664.8 | 1673.3 | 1746.7 | 1898.7 | 2018.2 | 2146.3 | 2212.9 | 2293.1 | 2325.5 | 2306.8 | 2148.0 |
| 45° | 1639.1 | 1644.3 | 1721.1 | 1893.6 | 2095.0 | 2277.7 | 2342.6 | 2426.3 | 2446.8 | 2402.4 | 2231.6 |
| 47.5° | 1606.7 | 1611.8 | 1692.1 | 1886.7 | 2158.2 | 2390.4 | 2434.8 | 2527.0 | 2547.5 | 2479.2 | 2303.3 |
| 50° | 1558.9 | 1562.3 | 1654.5 | 1873.1 | 2199.2 | 2470.7 | 2520.2 | 2612.4 | 2620.9 | 2550.9 | 2371.6 |
| 52.5° | 1500.8 | 1511.1 | 1599.9 | 1840.6 | 2228.2 | 2520.2 | 2580.0 | 2679.0 | 2690.9 | 2643.1 | 2446.8 |
| 55° | 1422.3 | 1434.3 | 1536.7 | 1792.8 | 2218.0 | 2537.3 | 2607.3 | 2767.8 | 2788.3 | 2749.0 | 2509.9 |
| 57.5° | 1342.1 | 1359.1 | 1459.9 | 1726.2 | 2177.0 | 2562.9 | 2697.8 | 2899.2 | 2926.6 | 2853.1 | 2561.2 |
| 60° | 1260.1 | 1266.9 | 1371.1 | 1635.7 | 2108.7 | 2588.5 | 2800.2 | 3071.7 | 3097.3 | 2955.6 | 2602.1 |
| 62.5° | 1166.2 | 1174.7 | 1266.9 | 1511.1 | 1990.9 | 2564.6 | 2877.0 | 3216.8 | 3232.2 | 3041.0 | 2619.2 |
| 65° | 1056.9 | 1056.9 | 1135.5 | 1359.1 | 1832.1 | 2479.2 | 2887.3 | 3292.0 | 3302.2 | 3095.6 | 2598.7 |
| 67.5° | 904.9 | 911.8 | 975.0 | 1171.3 | 1618.7 | 2311.9 | 2829.2 | 3309.0 | 3334.6 | 3129.7 | 2542.4 |
| 70° | 701.8 | 717.1 | 770.1 | 939.1 | 1321.6 | 2079.7 | 2742.2 | 3336.3 | 3356.8 | 3080.2 | 2416.0 |
| 72.5° | 479.8 | 495.2 | 543.0 | 643.7 | 952.8 | 1668.2 | 2480.9 | 3078.5 | 3083.6 | 2839.5 | 2170.2 |
| 75° | 126.4 | 140.0 | 177.6 | 257.8 | 399.5 | 1121.8 | 1984.1 | 2607.3 | 2638.0 | 2455.3 | 1791.1 |
| 77.5° | 37.6 | 37.6 | 46.1 | 59.8 | 82.0 | 228.8 | 1009.1 | 1661.3 | 1692.1 | 1618.7 | 1116.7 |
| 80° | 29.0 | 29.0 | 34.1 | 41.0 | 52.9 | 117.8 | 350.0 | 613.0 | 650.5 | 694.9 | 461.0 |
| 82.5° | 18.8 | 20.5 | 22.2 | 23.9 | 23.9 | 47.8 | 93.9 | 157.1 | 155.4 | 169.0 | 148.5 |
| 85° | 12.0 | 12.0 | 10.2 | 10.2 | 8.5 | 12.0 | 8.5 | 10.2 | 12.0 | 12.0 | 13.7 |
| 87.5° | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 | 1.7 | 3.4 | 3.4 | 3.4 | 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: P507570

CATALOG NUMBER: VERD-S-CA1-50-722-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 | 814.5 |
| 2.5° | 817.9 | 819.6 | 821.3 | 823.0 | 826.4 | 826.4 | 828.1 | 828.1 | 828.1 | 828.1 | 828.1 |
| 5° | 828.1 | 829.8 | 834.9 | 840.1 | 852.0 | 858.8 | 865.7 | 870.8 | 870.8 | 874.2 | 874.2 |
| 7.5° | 843.5 | 848.6 | 864.0 | 870.8 | 881.0 | 891.3 | 896.4 | 898.1 | 901.5 | 901.5 | 901.5 |
| 10° | 869.1 | 874.2 | 886.2 | 891.3 | 896.4 | 896.4 | 894.7 | 893.0 | 887.9 | 886.2 | 887.9 |
| 12.5° | 893.0 | 899.8 | 899.8 | 898.1 | 893.0 | 886.2 | 877.6 | 869.1 | 860.6 | 853.7 | 853.7 |
| 15° | 922.0 | 918.6 | 908.4 | 894.7 | 881.0 | 864.0 | 846.9 | 831.5 | 817.9 | 812.7 | 812.7 |
| 17.5° | 947.6 | 939.1 | 916.9 | 891.3 | 862.3 | 834.9 | 807.6 | 782.0 | 758.1 | 749.6 | 744.4 |
| 20° | 978.4 | 963.0 | 923.7 | 884.5 | 843.5 | 800.8 | 754.7 | 708.6 | 667.6 | 650.5 | 648.8 |
| 22.5° | 1014.2 | 988.6 | 934.0 | 874.2 | 819.6 | 754.7 | 677.9 | 613.0 | 572.0 | 551.5 | 548.1 |
| 25° | 1056.9 | 1019.3 | 944.2 | 865.7 | 790.5 | 694.9 | 592.5 | 519.1 | 467.8 | 445.6 | 437.1 |
| 27.5° | 1109.8 | 1060.3 | 957.9 | 855.4 | 746.2 | 621.5 | 505.4 | 420.0 | 363.7 | 336.4 | 333.0 |
| 30° | 1178.1 | 1109.8 | 971.5 | 840.1 | 691.5 | 536.1 | 411.5 | 315.9 | 259.5 | 232.2 | 225.4 |
| 32.5° | 1335.2 | 1210.6 | 988.6 | 814.5 | 623.2 | 454.2 | 310.8 | 211.7 | 155.4 | 129.8 | 128.1 |
| 35° | 1601.6 | 1437.7 | 1027.9 | 780.3 | 554.9 | 356.9 | 199.8 | 112.7 | 83.7 | 73.4 | 73.4 |
| 37.5° | 1801.4 | 1627.2 | 1133.7 | 735.9 | 466.1 | 239.0 | 102.4 | 66.6 | 52.9 | 51.2 | 51.2 |
| 40° | 1920.9 | 1739.9 | 1249.9 | 686.4 | 360.3 | 128.1 | 63.2 | 51.2 | 47.8 | 46.1 | 46.1 |
| 42.5° | 2019.9 | 1833.8 | 1304.5 | 624.9 | 228.8 | 71.7 | 52.9 | 47.8 | 44.4 | 42.7 | 42.7 |
| 45° | 2101.9 | 1905.5 | 1311.3 | 546.4 | 128.1 | 59.8 | 49.5 | 42.7 | 41.0 | 39.3 | 39.3 |
| 47.5° | 2166.7 | 1967.0 | 1294.2 | 435.4 | 80.2 | 56.3 | 46.1 | 39.3 | 35.9 | 35.9 | 35.9 |
| 50° | 2228.2 | 2019.9 | 1246.4 | 343.2 | 75.1 | 52.9 | 42.7 | 35.9 | 34.1 | 34.1 | 34.1 |
| 52.5° | 2284.6 | 2057.5 | 1166.2 | 276.6 | 70.0 | 49.5 | 41.0 | 34.1 | 30.7 | 32.4 | 32.4 |
| 55° | 2330.7 | 2072.8 | 1084.2 | 213.4 | 66.6 | 47.8 | 39.3 | 32.4 | 29.0 | 29.0 | 29.0 |
| 57.5° | 2356.3 | 2040.4 | 1015.9 | 162.2 | 64.9 | 46.1 | 37.6 | 30.7 | 25.6 | 23.9 | 23.9 |
| 60° | 2358.0 | 1997.7 | 952.8 | 136.6 | 61.5 | 42.7 | 35.9 | 27.3 | 22.2 | 20.5 | 20.5 |
| 62.5° | 2327.2 | 1946.5 | 857.1 | 117.8 | 58.1 | 41.0 | 32.4 | 25.6 | 20.5 | 18.8 | 18.8 |
| 65° | 2267.5 | 1856.0 | 751.3 | 100.7 | 56.3 | 41.0 | 29.0 | 23.9 | 20.5 | 17.1 | 17.1 |
| 67.5° | 2171.9 | 1705.7 | 609.6 | 88.8 | 52.9 | 37.6 | 29.0 | 22.2 | 18.8 | 17.1 | 17.1 |
| 70° | 1990.9 | 1490.6 | 421.7 | 76.8 | 49.5 | 34.1 | 27.3 | 22.2 | 18.8 | 15.4 | 15.4 |
| 72.5° | 1716.0 | 1210.6 | 208.3 | 63.2 | 42.7 | 34.1 | 27.3 | 20.5 | 17.1 | 15.4 | 15.4 |
| 75° | 1326.7 | 867.4 | 126.4 | 51.2 | 34.1 | 30.7 | 25.6 | 20.5 | 17.1 | 13.7 | 13.7 |
| 77.5° | 780.3 | 385.9 | 90.5 | 39.3 | 25.6 | 23.9 | 22.2 | 18.8 | 15.4 | 13.7 | 13.7 |
| 80° | 285.1 | 163.9 | 66.6 | 30.7 | 20.5 | 20.5 | 17.1 | 15.4 | 13.7 | 12.0 | 12.0 |
| 82.5° | 111.0 | 87.1 | 44.4 | 22.2 | 17.1 | 15.4 | 13.7 | 12.0 | 10.2 | 10.2 | 10.2 |
| 85° | 15.4 | 15.4 | 15.4 | 12.0 | 10.2 | 10.2 | 8.5 | 8.5 | 6.8 | 6.8 | 6.8 |
| 87.5° | 5.1 | 5.1 | 5.1 | 6.8 | 5.1 | 5.1 | 3.4 | 3.4 | 3.4 | 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)