

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: P507692

Luminaire Tested: **VERD-S-CA1-70-740-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-740-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1330mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8811 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

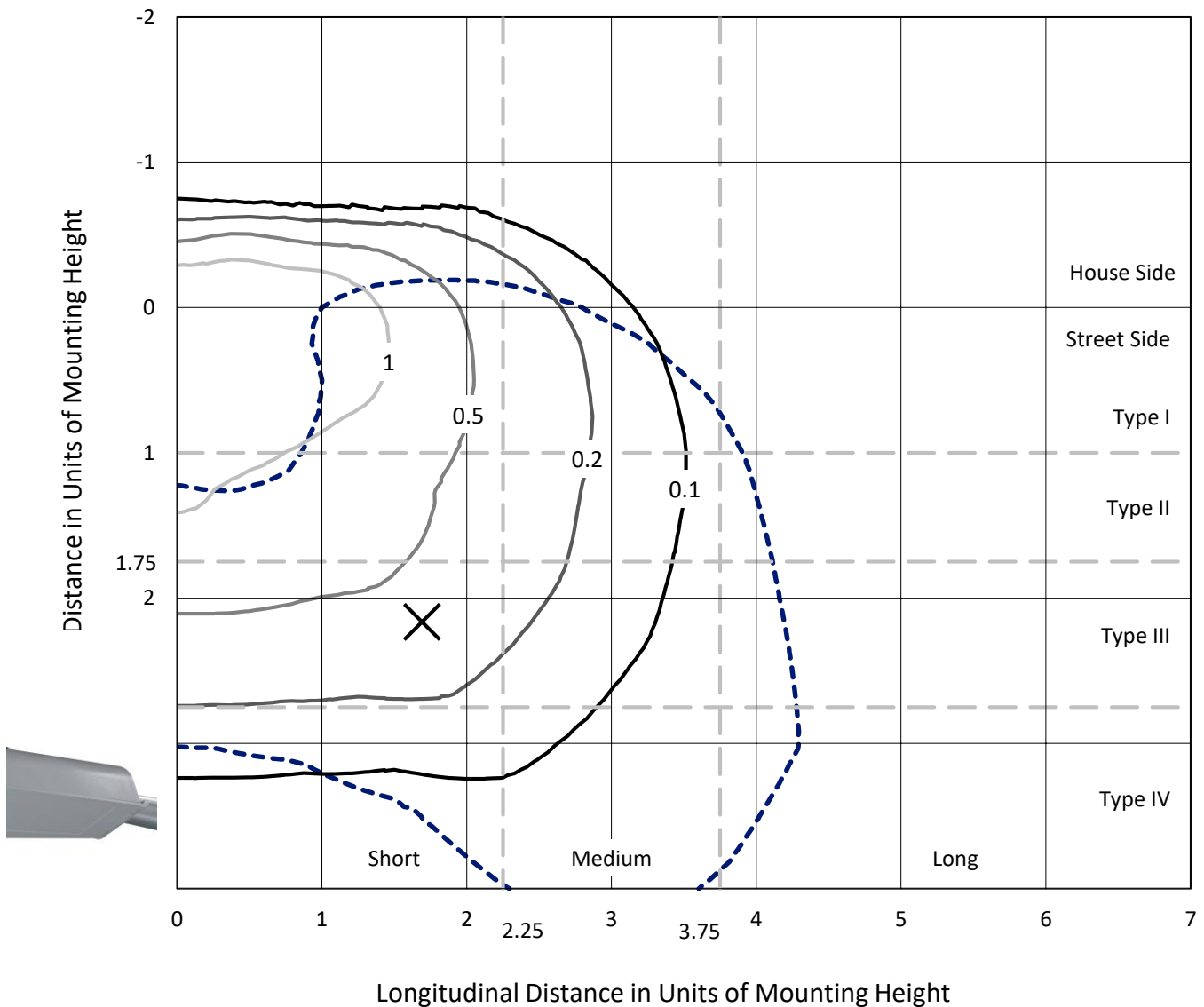
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P507692
 CATALOG NUMBER: VERD-S-CA1-70-740-U-T4-HSS

Iso-Footcandle Lines of Horizontal Illumination

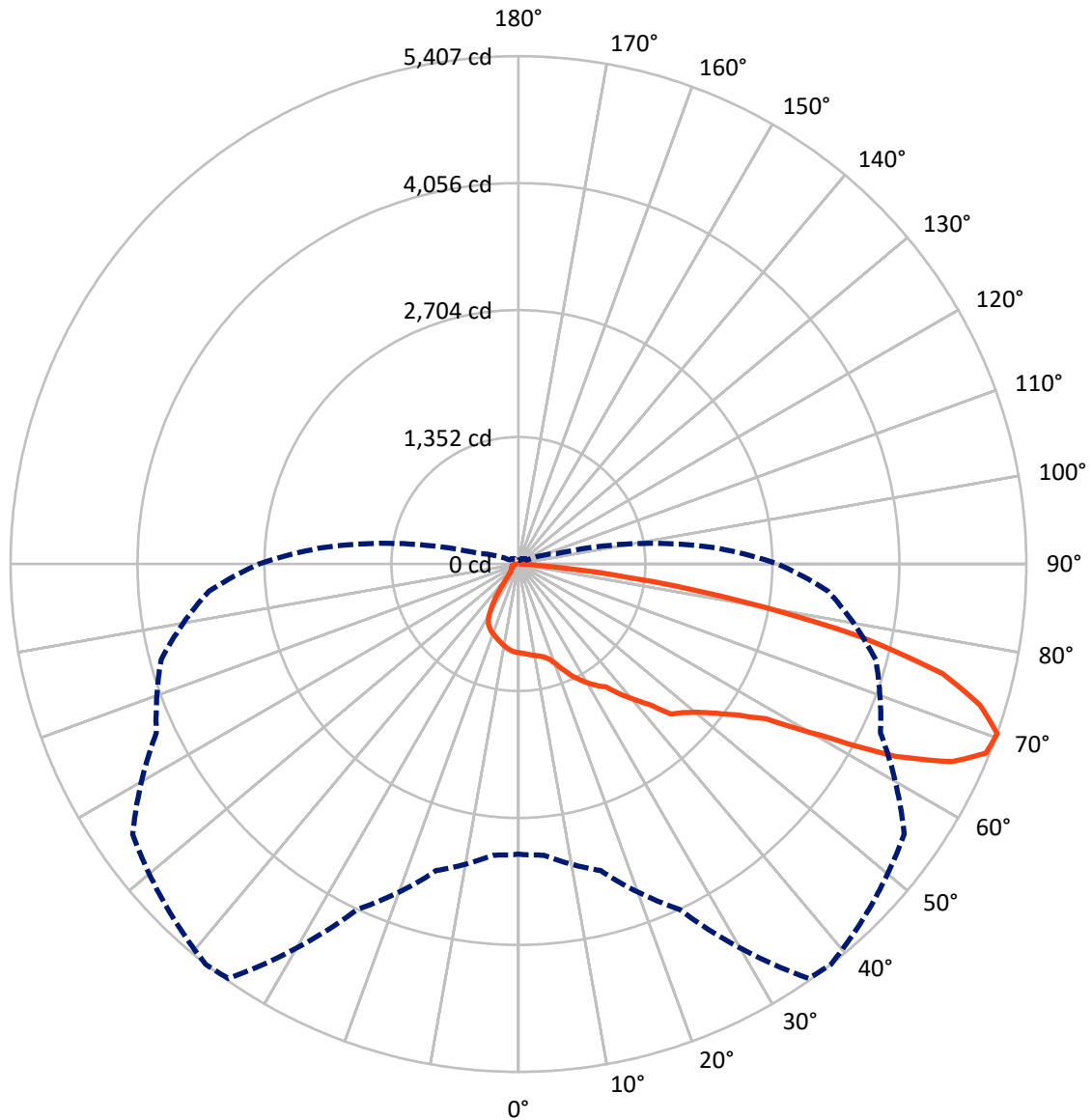
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P507692
CATALOG NUMBER: VERD-S-CA1-70-740-U-T4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P507692

CATALOG NUMBER: VERD-S-CA1-70-740-U-T4-HSS

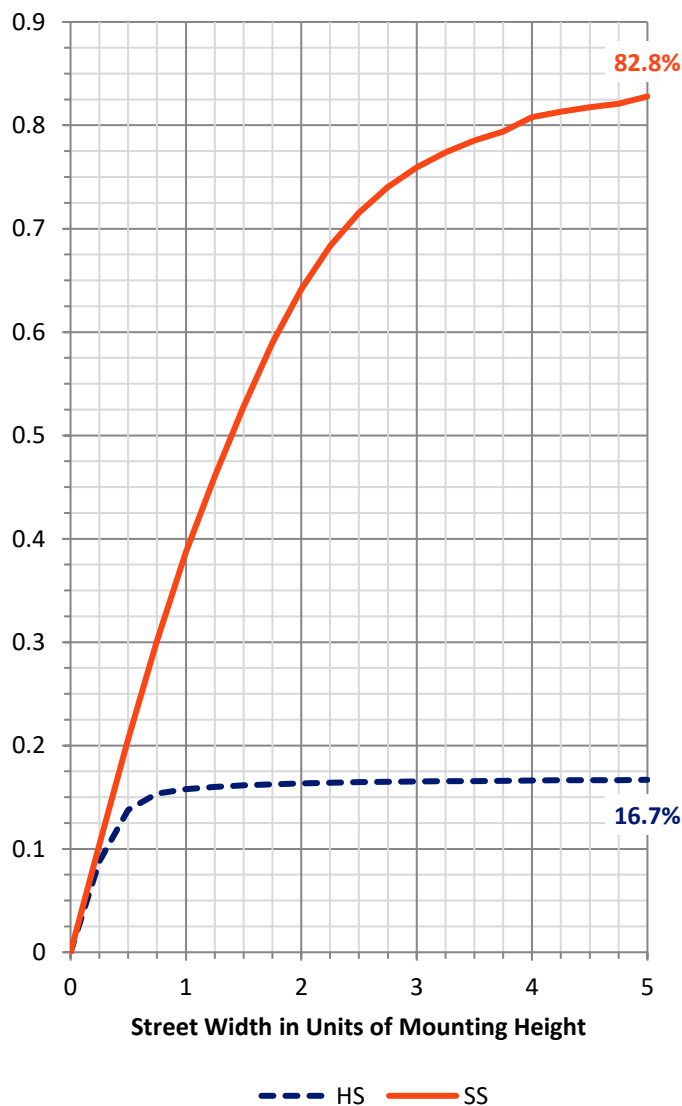
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1490.6 | 0.0 | 1490.6 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 7320.4 | 0.0 | 7320.4 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 8811.0 | 0.0 | 8811.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.3 | 1.0 |
| 10°-20° | 273.6 | 3.1 |
| 20°-30° | 503.8 | 5.7 |
| 30°-40° | 788.6 | 9.0 |
| 40°-50° | 1198.1 | 13.6 |
| 50°-60° | 1722.6 | 19.6 |
| 60°-70° | 2314.3 | 26.3 |
| 70°-80° | 1714.6 | 19.5 |
| 80°-90° | 205.1 | 2.3 |
| 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° | 8811.0 | 100.0 |
| 0°-180° | 8811.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P507692

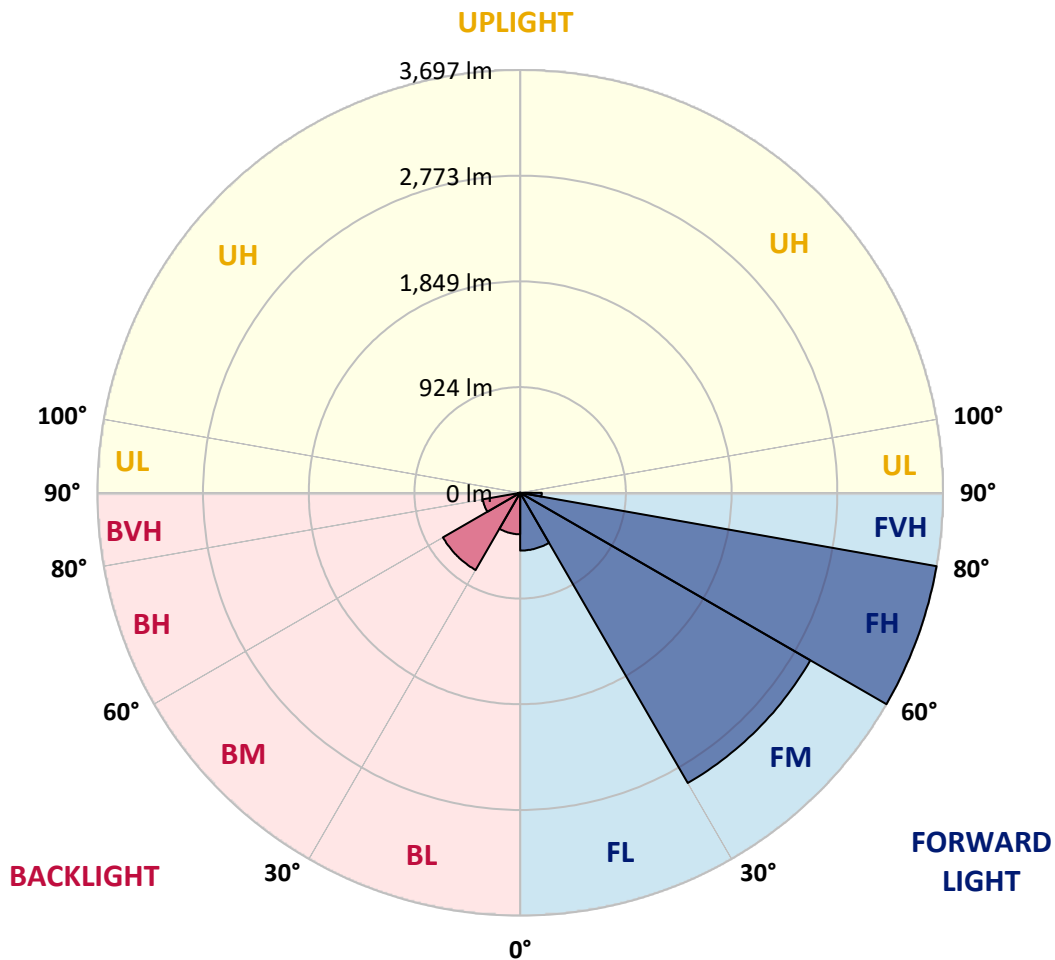
CATALOG NUMBER: VERD-S-CA1-70-740-U-T4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 505.1 | 5.7 | | | |
| FM | (30°-60°) | 2929.6 | 33.2 | | | |
| FH | (60°-80°) | 3697.0 | 42.0 | | | G2/5000 |
| FVH | (80°-90°) | 188.6 | 2.1 | | | G2/225 |
| BL | (0°-30°) | 362.5 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 779.7 | 8.8 | B1/1000 | | |
| BH | (60°-80°) | 331.9 | 3.8 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 16.4 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P507692

CATALOG NUMBER: VERD-S-CA1-70-740-U-T4-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 |
| 2.5° | 958.3 | 958.3 | 958.3 | 955.5 | 955.5 | 952.8 | 952.8 | 950.0 | 950.0 | 947.2 | 944.4 |
| 5° | 972.3 | 972.3 | 969.5 | 966.7 | 963.9 | 963.9 | 963.9 | 961.1 | 955.5 | 955.5 | 950.0 |
| 7.5° | 977.8 | 977.8 | 977.8 | 977.8 | 977.8 | 977.8 | 977.8 | 975.1 | 972.3 | 969.5 | 963.9 |
| 10° | 980.6 | 980.6 | 983.4 | 983.4 | 989.0 | 991.8 | 991.8 | 994.6 | 991.8 | 986.2 | 980.6 |
| 12.5° | 989.0 | 991.8 | 991.8 | 994.6 | 1002.9 | 1005.7 | 1008.5 | 1016.8 | 1016.8 | 1011.3 | 1005.7 |
| 15° | 1005.7 | 1005.7 | 1008.5 | 1014.1 | 1025.2 | 1028.0 | 1036.3 | 1044.7 | 1050.3 | 1044.7 | 1039.1 |
| 17.5° | 1055.8 | 1055.8 | 1055.8 | 1055.8 | 1061.4 | 1064.2 | 1075.3 | 1089.3 | 1094.8 | 1094.8 | 1092.1 |
| 20° | 1156.1 | 1156.1 | 1150.6 | 1139.4 | 1133.8 | 1133.8 | 1131.1 | 1136.6 | 1147.8 | 1156.1 | 1158.9 |
| 22.5° | 1270.4 | 1267.6 | 1264.8 | 1248.1 | 1228.6 | 1223.0 | 1217.4 | 1211.8 | 1217.4 | 1231.3 | 1236.9 |
| 25° | 1359.5 | 1362.3 | 1359.5 | 1337.2 | 1320.5 | 1317.7 | 1309.4 | 1312.1 | 1312.1 | 1314.9 | 1323.3 |
| 27.5° | 1431.9 | 1437.5 | 1426.4 | 1415.2 | 1404.1 | 1395.7 | 1401.3 | 1409.6 | 1423.6 | 1418.0 | 1434.7 |
| 30° | 1512.7 | 1509.9 | 1498.8 | 1484.9 | 1476.5 | 1473.7 | 1470.9 | 1501.6 | 1540.6 | 1557.3 | 1576.8 |
| 32.5° | 1657.6 | 1654.8 | 1632.5 | 1562.9 | 1543.4 | 1543.4 | 1548.9 | 1587.9 | 1649.2 | 1702.2 | 1752.3 |
| 35° | 1791.3 | 1791.3 | 1763.4 | 1716.1 | 1632.5 | 1607.4 | 1621.4 | 1668.7 | 1757.9 | 1863.7 | 1944.5 |
| 37.5° | 1950.1 | 1952.9 | 1922.2 | 1849.8 | 1783.0 | 1757.9 | 1691.0 | 1757.9 | 1866.5 | 2069.9 | 2170.2 |
| 40° | 2134.0 | 2128.4 | 2078.3 | 2000.2 | 1913.9 | 1894.4 | 1838.7 | 1852.6 | 2005.8 | 2312.3 | 2409.8 |
| 42.5° | 2237.0 | 2231.5 | 2198.0 | 2136.8 | 2067.1 | 2044.8 | 1994.7 | 1980.7 | 2192.5 | 2579.7 | 2643.8 |
| 45° | 2337.3 | 2342.9 | 2340.1 | 2309.5 | 2292.8 | 2278.8 | 2251.0 | 2253.8 | 2423.7 | 2844.4 | 2847.1 |
| 47.5° | 2395.8 | 2407.0 | 2362.4 | 2359.6 | 2362.4 | 2362.4 | 2401.4 | 2479.4 | 2643.8 | 3070.0 | 3025.4 |
| 50° | 2568.6 | 2557.4 | 2420.9 | 2426.5 | 2462.7 | 2479.4 | 2551.8 | 2666.1 | 2950.2 | 3265.0 | 3178.7 |
| 52.5° | 2916.8 | 2838.8 | 2666.1 | 2582.5 | 2596.4 | 2638.2 | 2724.6 | 2888.9 | 3256.7 | 3457.3 | 3315.2 |
| 55° | 3306.8 | 3273.4 | 3095.1 | 2880.6 | 2785.9 | 2838.8 | 2930.7 | 3103.4 | 3499.0 | 3621.6 | 3429.4 |
| 57.5° | 3577.0 | 3591.0 | 3596.5 | 3423.8 | 3092.3 | 3109.0 | 3167.5 | 3318.0 | 3716.3 | 3788.8 | 3515.8 |
| 60° | 3838.9 | 3858.4 | 3964.3 | 3939.2 | 3830.6 | 3708.0 | 3479.5 | 3529.7 | 3903.0 | 3908.6 | 3582.6 |
| 62.5° | 4047.9 | 4059.0 | 4228.9 | 4306.9 | 4501.9 | 4510.3 | 4139.8 | 3822.2 | 4092.4 | 3994.9 | 3607.7 |
| 65° | 3942.0 | 3972.6 | 4220.6 | 4457.4 | 5011.8 | 5073.1 | 4928.2 | 4195.5 | 4237.3 | 4033.9 | 3591.0 |
| 67.5° | 3585.4 | 3635.5 | 3869.6 | 4412.8 | 5329.3 | 5371.1 | 5243.0 | 4872.5 | 4290.2 | 4020.0 | 3499.0 |
| 70° | 3089.5 | 3111.8 | 3379.2 | 4056.2 | 5387.9 | 5407.4 | 5248.6 | 5014.5 | 4254.0 | 3939.2 | 3306.8 |
| 72.5° | 2512.8 | 2537.9 | 2769.1 | 3487.9 | 5123.2 | 5139.9 | 5098.1 | 4903.1 | 4167.6 | 3788.8 | 2916.8 |
| 75° | 1886.0 | 1925.0 | 2145.1 | 2724.6 | 4524.2 | 4666.3 | 4752.7 | 4669.1 | 3928.1 | 3290.1 | 2220.3 |
| 77.5° | 1245.3 | 1248.1 | 1470.9 | 2058.8 | 3585.4 | 3727.5 | 3741.4 | 3671.8 | 2788.6 | 2064.3 | 986.2 |
| 80° | 534.9 | 585.0 | 860.8 | 1381.8 | 2381.9 | 2407.0 | 2434.8 | 2251.0 | 1429.1 | 638.0 | 108.6 |
| 82.5° | 178.3 | 197.8 | 362.2 | 729.9 | 1172.8 | 1200.7 | 1150.6 | 997.3 | 401.2 | 86.4 | 61.3 |
| 85° | 75.2 | 83.6 | 111.4 | 200.6 | 284.2 | 259.1 | 242.4 | 197.8 | 55.7 | 50.1 | 39.0 |
| 87.5° | 2.8 | 2.8 | 2.8 | 2.8 | 5.6 | 2.8 | 5.6 | 5.6 | 8.4 | 8.4 | 11.1 |
| 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: P507692

CATALOG NUMBER: VERD-S-CA1-70-740-U-T4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 | 944.4 |
| 2.5° | 944.4 | 944.4 | 944.4 | 941.6 | 941.6 | 938.8 | 938.8 | 936.0 | 936.0 | 936.0 | 936.0 |
| 5° | 950.0 | 950.0 | 944.4 | 941.6 | 936.0 | 930.5 | 924.9 | 919.3 | 913.8 | 913.8 | 913.8 |
| 7.5° | 961.1 | 958.3 | 950.0 | 938.8 | 927.7 | 913.8 | 905.4 | 894.3 | 888.7 | 883.1 | 885.9 |
| 10° | 977.8 | 972.3 | 961.1 | 944.4 | 922.1 | 899.8 | 880.3 | 863.6 | 855.3 | 846.9 | 844.1 |
| 12.5° | 1000.1 | 994.6 | 977.8 | 952.8 | 919.3 | 885.9 | 855.3 | 830.2 | 813.5 | 805.1 | 802.3 |
| 15° | 1033.6 | 1025.2 | 1002.9 | 966.7 | 919.3 | 869.2 | 827.4 | 791.2 | 763.3 | 746.6 | 746.6 |
| 17.5° | 1086.5 | 1078.1 | 1047.5 | 997.3 | 930.5 | 860.8 | 796.8 | 735.5 | 699.3 | 679.7 | 677.0 |
| 20° | 1156.1 | 1145.0 | 1108.8 | 1036.3 | 950.0 | 858.0 | 763.3 | 685.3 | 624.0 | 590.6 | 587.8 |
| 22.5° | 1236.9 | 1228.6 | 1172.8 | 1078.1 | 969.5 | 852.5 | 738.3 | 635.2 | 548.8 | 487.5 | 473.6 |
| 25° | 1331.6 | 1317.7 | 1234.1 | 1111.6 | 975.1 | 838.5 | 702.0 | 582.2 | 462.5 | 387.2 | 373.3 |
| 27.5° | 1443.1 | 1412.4 | 1289.9 | 1136.6 | 972.3 | 810.7 | 660.2 | 507.0 | 351.0 | 295.3 | 286.9 |
| 30° | 1562.9 | 1509.9 | 1345.6 | 1153.3 | 955.5 | 766.1 | 587.8 | 378.9 | 253.5 | 220.1 | 211.7 |
| 32.5° | 1699.4 | 1615.8 | 1395.7 | 1156.1 | 919.3 | 704.8 | 465.2 | 259.1 | 181.1 | 161.6 | 158.8 |
| 35° | 1863.7 | 1749.5 | 1448.6 | 1145.0 | 866.4 | 604.5 | 323.2 | 175.5 | 133.7 | 128.1 | 128.1 |
| 37.5° | 2078.3 | 1919.5 | 1507.2 | 1111.6 | 785.6 | 468.0 | 214.5 | 119.8 | 117.0 | 119.8 | 119.8 |
| 40° | 2303.9 | 2114.5 | 1579.6 | 1061.4 | 682.5 | 337.1 | 136.5 | 111.4 | 111.4 | 114.2 | 114.2 |
| 42.5° | 2518.4 | 2301.1 | 1671.5 | 994.6 | 565.5 | 217.3 | 111.4 | 105.9 | 103.1 | 105.9 | 108.6 |
| 45° | 2699.5 | 2476.6 | 1760.7 | 922.1 | 431.8 | 139.3 | 108.6 | 100.3 | 94.7 | 97.5 | 97.5 |
| 47.5° | 2861.1 | 2610.4 | 1810.8 | 835.8 | 303.7 | 108.6 | 108.6 | 91.9 | 86.4 | 86.4 | 89.1 |
| 50° | 2997.6 | 2716.2 | 1838.7 | 735.5 | 192.2 | 105.9 | 97.5 | 86.4 | 80.8 | 80.8 | 78.0 |
| 52.5° | 3111.8 | 2794.2 | 1835.9 | 624.0 | 125.4 | 103.1 | 91.9 | 80.8 | 72.4 | 75.2 | 75.2 |
| 55° | 3198.2 | 2855.5 | 1794.1 | 479.2 | 105.9 | 97.5 | 89.1 | 75.2 | 69.6 | 75.2 | 75.2 |
| 57.5° | 3265.0 | 2883.4 | 1716.1 | 334.3 | 103.1 | 89.1 | 83.6 | 69.6 | 64.1 | 66.9 | 66.9 |
| 60° | 3298.5 | 2869.4 | 1593.5 | 208.9 | 100.3 | 86.4 | 78.0 | 64.1 | 58.5 | 55.7 | 58.5 |
| 62.5° | 3287.3 | 2819.3 | 1418.0 | 139.3 | 94.7 | 80.8 | 72.4 | 61.3 | 52.9 | 47.4 | 47.4 |
| 65° | 3220.5 | 2707.9 | 1209.1 | 117.0 | 91.9 | 80.8 | 69.6 | 58.5 | 47.4 | 44.6 | 44.6 |
| 67.5° | 3070.0 | 2476.6 | 897.0 | 108.6 | 91.9 | 78.0 | 66.9 | 55.7 | 47.4 | 41.8 | 41.8 |
| 70° | 2760.8 | 2061.5 | 431.8 | 100.3 | 91.9 | 80.8 | 66.9 | 52.9 | 44.6 | 39.0 | 39.0 |
| 72.5° | 2234.3 | 1457.0 | 111.4 | 86.4 | 89.1 | 80.8 | 69.6 | 52.9 | 41.8 | 36.2 | 36.2 |
| 75° | 1457.0 | 699.3 | 94.7 | 69.6 | 80.8 | 75.2 | 66.9 | 52.9 | 41.8 | 33.4 | 33.4 |
| 77.5° | 473.6 | 97.5 | 86.4 | 61.3 | 72.4 | 72.4 | 66.9 | 52.9 | 41.8 | 30.6 | 30.6 |
| 80° | 75.2 | 69.6 | 75.2 | 47.4 | 52.9 | 61.3 | 52.9 | 50.1 | 39.0 | 27.9 | 27.9 |
| 82.5° | 52.9 | 64.1 | 55.7 | 39.0 | 47.4 | 50.1 | 41.8 | 33.4 | 27.9 | 25.1 | 25.1 |
| 85° | 39.0 | 41.8 | 33.4 | 30.6 | 36.2 | 41.8 | 33.4 | 25.1 | 22.3 | 22.3 | 22.3 |
| 87.5° | 13.9 | 16.7 | 16.7 | 22.3 | 27.9 | 30.6 | 19.5 | 13.9 | 16.7 | 16.7 | 16.7 |
| 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)