

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: P507731

Luminaire Tested: **VERD-S-CA1-80-730-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507731
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-CA1-80-730-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1500mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10606 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (A_{in}): 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

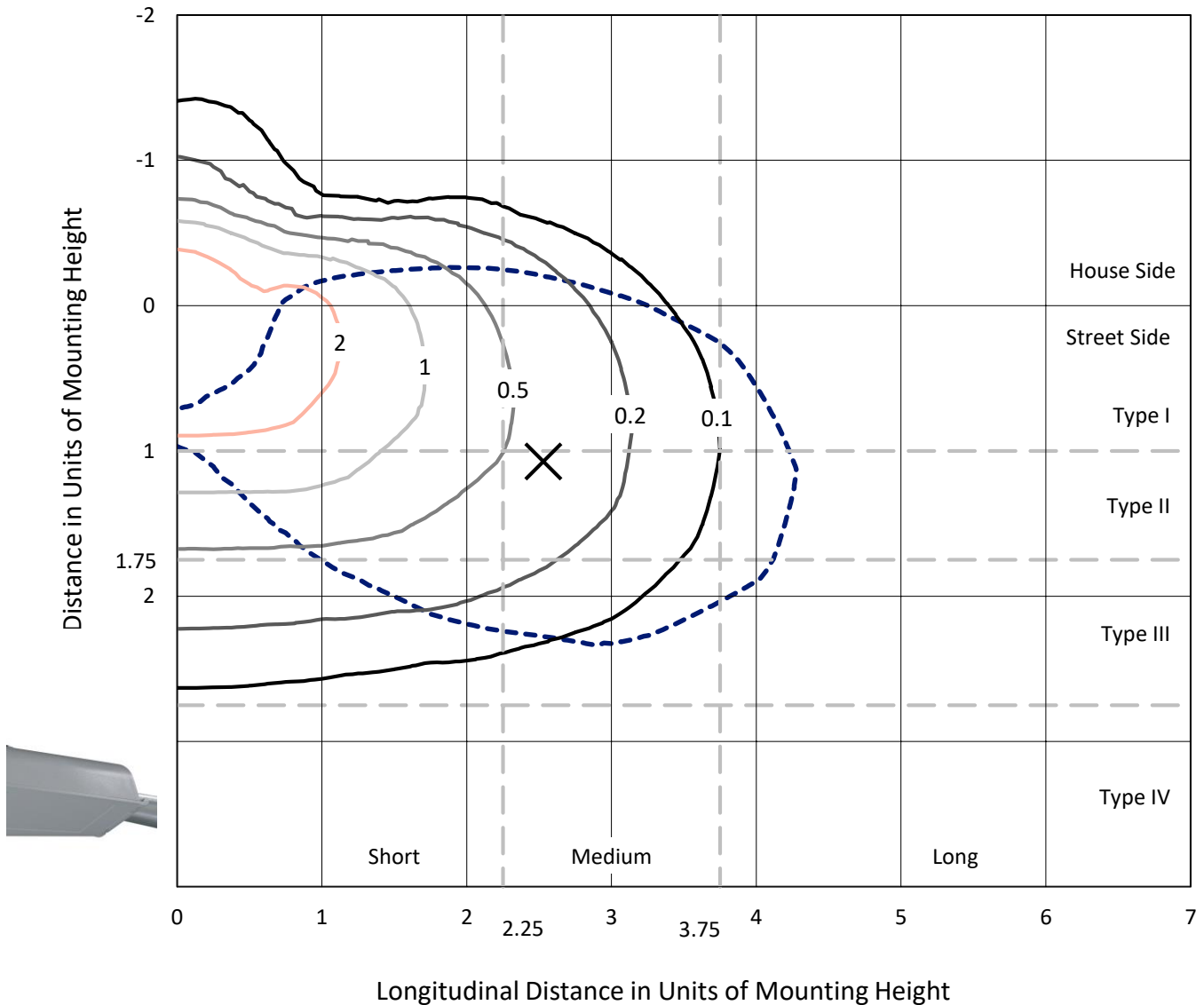


REPORT NUMBER: P507731

CATALOG NUMBER: VERD-S-CA1-80-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

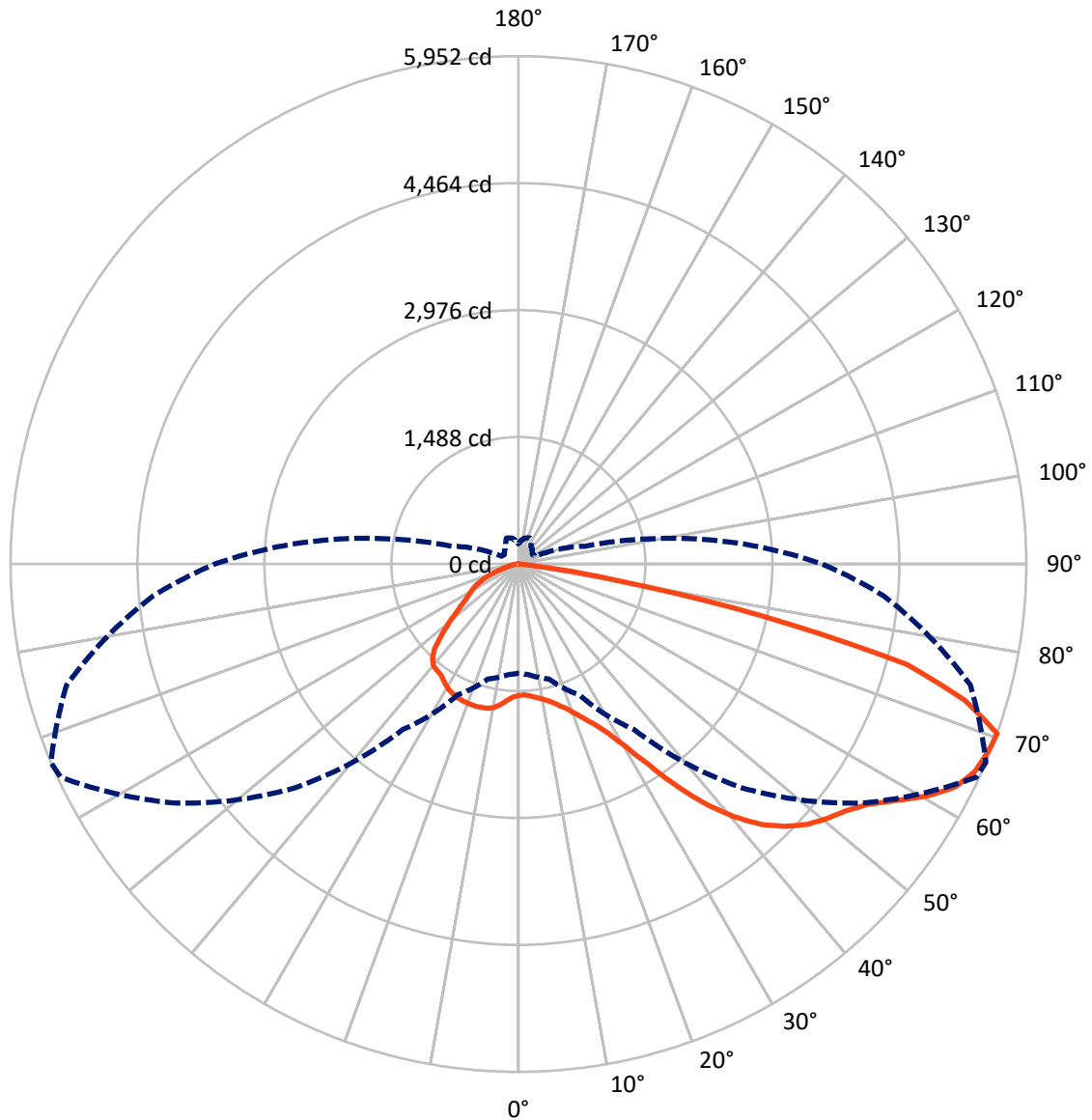
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P507731
CATALOG NUMBER: VERD-S-CA1-80-730-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P507731

CATALOG NUMBER: VERD-S-CA1-80-730-U-T3

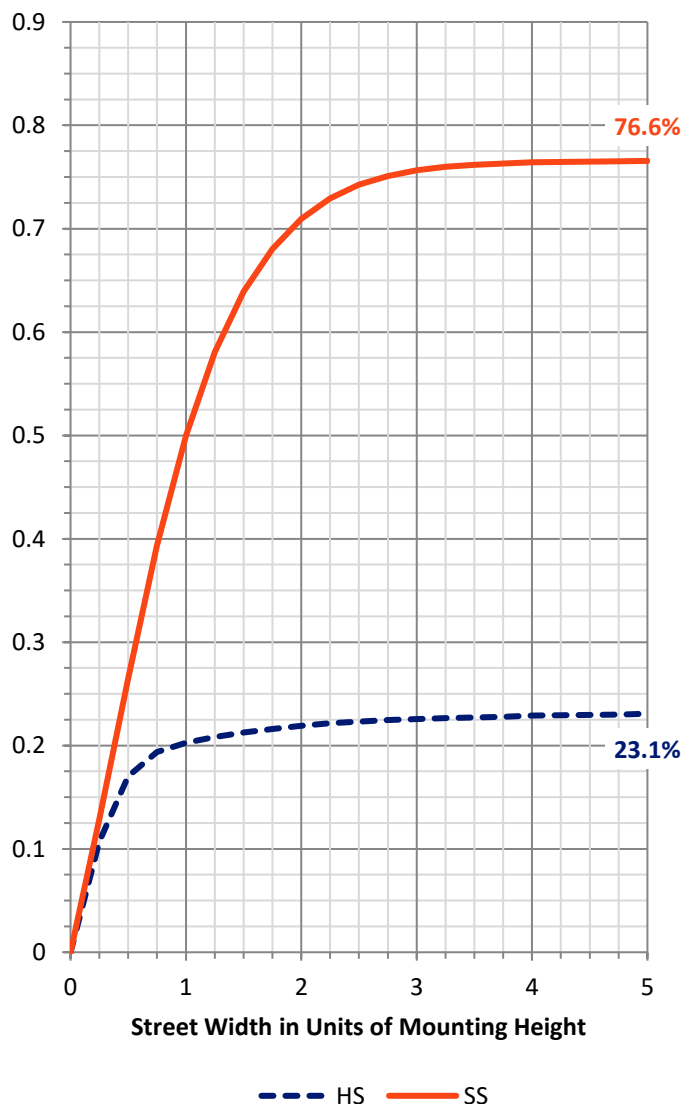
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2481.5 | 0.0 | 2481.5 |
| | % Fixture | 23.4 | 0.0 | 23.4 |
| Street Side | Lumens | 8124.5 | 0.0 | 8124.5 |
| | % Fixture | 76.6 | 0.0 | 76.6 |
| Total | Lumens | 10606.0 | 0.0 | 10606.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 156.2 | 1.5 |
| 10°-20° | 502.8 | 4.7 |
| 20°-30° | 886.7 | 8.4 |
| 30°-40° | 1359.1 | 12.8 |
| 40°-50° | 1852.6 | 17.5 |
| 50°-60° | 2192.2 | 20.7 |
| 60°-70° | 2285.5 | 21.5 |
| 70°-80° | 1278.5 | 12.1 |
| 80°-90° | 92.5 | 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° | 10606.0 | 100.0 |
| 0°-180° | 10606.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P507731

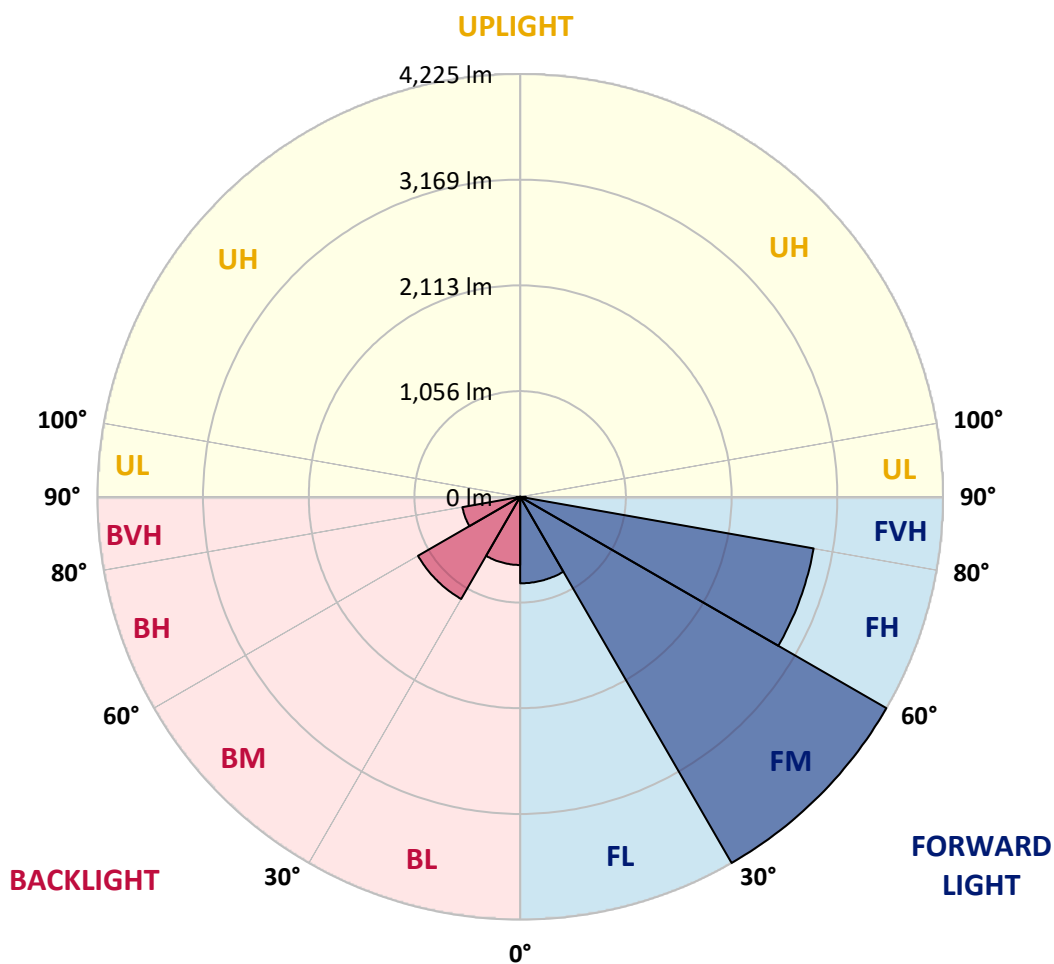
CATALOG NUMBER: VERD-S-CA1-80-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 864.4 | 8.2 | | | |
| FM (30°-60°) | 4225.4 | 39.8 | | | |
| FH (60°-80°) | 2978.0 | 28.1 | | | G2/5000 |
| FVH (80°-90°) | 56.7 | 0.5 | | | G1/100 |
| BL (0°-30°) | 681.2 | 6.4 | B2/1000 | | |
| BM (30°-60°) | 1178.6 | 11.1 | B2/2500 | | |
| BH (60°-80°) | 585.9 | 5.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 35.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Medium





REPORT NUMBER: P507731
 CATALOG NUMBER: VERD-S-CA1-80-730-U-T3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 |
| 2.5° | 1544.4 | 1544.4 | 1544.4 | 1541.4 | 1541.4 | 1541.4 | 1538.4 | 1535.4 | 1535.4 | 1538.4 | 1538.4 |
| 5° | 1583.6 | 1583.6 | 1580.6 | 1577.6 | 1571.5 | 1565.5 | 1559.5 | 1556.5 | 1556.5 | 1556.5 | 1559.5 |
| 7.5° | 1637.8 | 1634.8 | 1628.7 | 1625.7 | 1616.7 | 1607.7 | 1595.6 | 1583.6 | 1583.6 | 1577.6 | 1583.6 |
| 10° | 1704.0 | 1704.0 | 1695.0 | 1688.9 | 1676.9 | 1652.8 | 1634.8 | 1616.7 | 1613.7 | 1607.7 | 1616.7 |
| 12.5° | 1788.3 | 1788.3 | 1782.3 | 1767.2 | 1749.2 | 1719.1 | 1685.9 | 1655.8 | 1652.8 | 1643.8 | 1661.8 |
| 15° | 1890.7 | 1881.6 | 1878.6 | 1866.6 | 1833.5 | 1794.3 | 1749.2 | 1710.0 | 1710.0 | 1695.0 | 1716.0 |
| 17.5° | 2005.1 | 2002.0 | 1999.0 | 1984.0 | 1944.8 | 1887.6 | 1827.4 | 1782.3 | 1773.2 | 1764.2 | 1776.3 |
| 20° | 2143.5 | 2140.5 | 2137.5 | 2113.4 | 2068.3 | 1999.0 | 1926.8 | 1866.6 | 1860.5 | 1851.5 | 1842.5 |
| 22.5° | 2303.1 | 2303.1 | 2291.1 | 2273.0 | 2209.8 | 2128.5 | 2041.2 | 1965.9 | 1965.9 | 1956.9 | 1914.7 |
| 25° | 2456.6 | 2450.6 | 2444.6 | 2423.5 | 2372.4 | 2285.0 | 2182.7 | 2095.4 | 2083.3 | 2083.3 | 2011.1 |
| 27.5° | 2598.1 | 2598.1 | 2607.2 | 2595.1 | 2544.0 | 2453.6 | 2351.3 | 2251.9 | 2245.9 | 2233.9 | 2122.5 |
| 30° | 2745.7 | 2751.7 | 2754.7 | 2754.7 | 2730.6 | 2661.4 | 2550.0 | 2474.7 | 2486.8 | 2456.6 | 2288.1 |
| 32.5° | 2857.1 | 2863.1 | 2902.2 | 2938.3 | 2917.3 | 2878.1 | 2814.9 | 2790.8 | 2802.9 | 2827.0 | 2643.3 |
| 35° | 2962.4 | 2971.5 | 3025.6 | 3100.9 | 3134.0 | 3116.0 | 3125.0 | 3167.1 | 3194.2 | 3290.6 | 3131.0 |
| 37.5° | 3040.7 | 3049.7 | 3097.9 | 3191.2 | 3290.6 | 3341.8 | 3426.1 | 3519.4 | 3570.6 | 3694.0 | 3465.2 |
| 40° | 3061.8 | 3076.8 | 3176.2 | 3302.6 | 3453.2 | 3606.7 | 3709.1 | 3829.5 | 3892.7 | 3949.9 | 3691.0 |
| 42.5° | 2989.5 | 3004.6 | 3134.0 | 3399.0 | 3609.7 | 3844.5 | 3955.9 | 4121.5 | 4172.7 | 4139.6 | 3865.6 |
| 45° | 2944.4 | 2953.4 | 3085.9 | 3389.9 | 3745.2 | 4073.3 | 4181.7 | 4356.3 | 4386.4 | 4305.2 | 4016.1 |
| 47.5° | 2881.1 | 2890.2 | 3031.7 | 3374.9 | 3853.6 | 4272.0 | 4347.3 | 4518.9 | 4558.0 | 4443.6 | 4130.5 |
| 50° | 2787.8 | 2799.9 | 2962.4 | 3347.8 | 3925.8 | 4407.5 | 4488.8 | 4666.4 | 4687.5 | 4567.1 | 4251.0 |
| 52.5° | 2676.4 | 2694.5 | 2866.1 | 3290.6 | 3974.0 | 4494.8 | 4600.2 | 4783.8 | 4804.9 | 4726.6 | 4380.4 |
| 55° | 2540.9 | 2559.0 | 2742.7 | 3206.3 | 3958.9 | 4521.9 | 4648.4 | 4934.4 | 4970.5 | 4907.3 | 4491.8 |
| 57.5° | 2408.5 | 2420.5 | 2610.2 | 3082.9 | 3874.6 | 4564.1 | 4792.9 | 5178.2 | 5226.4 | 5093.9 | 4582.1 |
| 60° | 2248.9 | 2276.0 | 2459.7 | 2914.3 | 3745.2 | 4606.2 | 4979.5 | 5470.3 | 5515.4 | 5274.6 | 4651.4 |
| 62.5° | 2083.3 | 2107.4 | 2270.0 | 2703.5 | 3543.5 | 4567.1 | 5121.0 | 5723.1 | 5750.2 | 5419.1 | 4675.5 |
| 65° | 1890.7 | 1893.7 | 2044.2 | 2435.6 | 3254.5 | 4407.5 | 5133.1 | 5846.6 | 5873.7 | 5509.4 | 4633.3 |
| 67.5° | 1634.8 | 1634.8 | 1761.2 | 2095.4 | 2866.1 | 4118.5 | 5024.7 | 5885.7 | 5924.9 | 5569.6 | 4530.9 |
| 70° | 1279.5 | 1300.6 | 1396.9 | 1695.0 | 2372.4 | 3709.1 | 4886.2 | 5915.8 | 5951.9 | 5482.3 | 4299.1 |
| 72.5° | 894.1 | 888.1 | 987.5 | 1168.1 | 1716.0 | 2959.4 | 4359.3 | 5473.3 | 5473.3 | 5036.7 | 3874.6 |
| 75° | 274.0 | 307.1 | 352.2 | 472.7 | 782.8 | 1984.0 | 3570.6 | 4639.3 | 4699.5 | 4362.4 | 3194.2 |
| 77.5° | 90.3 | 90.3 | 105.4 | 129.5 | 168.6 | 421.5 | 1785.3 | 2842.0 | 2890.2 | 2839.0 | 1978.0 |
| 80° | 72.3 | 72.3 | 81.3 | 93.3 | 108.4 | 216.8 | 629.2 | 1065.8 | 1144.0 | 1261.4 | 818.9 |
| 82.5° | 51.2 | 51.2 | 54.2 | 57.2 | 54.2 | 87.3 | 165.6 | 283.0 | 289.0 | 313.1 | 264.9 |
| 85° | 33.1 | 30.1 | 30.1 | 27.1 | 24.1 | 24.1 | 21.1 | 21.1 | 24.1 | 24.1 | 30.1 |
| 87.5° | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 9.0 | 9.0 | 9.0 | 9.0 |
| 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: P507731
 CATALOG NUMBER: VERD-S-CA1-80-730-U-T3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 | 1538.4 |
| 2.5° | 1541.4 | 1544.4 | 1553.5 | 1559.5 | 1565.5 | 1571.5 | 1574.5 | 1577.6 | 1577.6 | 1580.6 | 1580.6 |
| 5° | 1562.5 | 1568.5 | 1583.6 | 1598.6 | 1622.7 | 1646.8 | 1667.9 | 1679.9 | 1682.9 | 1695.0 | 1695.0 |
| 7.5° | 1589.6 | 1598.6 | 1634.8 | 1661.8 | 1698.0 | 1725.1 | 1749.2 | 1761.2 | 1773.2 | 1779.3 | 1779.3 |
| 10° | 1631.7 | 1643.8 | 1679.9 | 1710.0 | 1740.1 | 1761.2 | 1776.3 | 1785.3 | 1788.3 | 1791.3 | 1791.3 |
| 12.5° | 1673.9 | 1688.9 | 1710.0 | 1734.1 | 1752.2 | 1764.2 | 1773.2 | 1776.3 | 1776.3 | 1776.3 | 1776.3 |
| 15° | 1719.1 | 1725.1 | 1731.1 | 1737.1 | 1746.1 | 1749.2 | 1749.2 | 1746.1 | 1740.1 | 1737.1 | 1737.1 |
| 17.5° | 1764.2 | 1758.2 | 1749.2 | 1737.1 | 1725.1 | 1716.0 | 1704.0 | 1692.0 | 1682.9 | 1676.9 | 1679.9 |
| 20° | 1818.4 | 1800.3 | 1761.2 | 1731.1 | 1698.0 | 1664.9 | 1637.8 | 1613.7 | 1595.6 | 1592.6 | 1595.6 |
| 22.5° | 1881.6 | 1845.5 | 1782.3 | 1719.1 | 1661.8 | 1601.6 | 1544.4 | 1511.3 | 1493.3 | 1478.2 | 1478.2 |
| 25° | 1956.9 | 1899.7 | 1800.3 | 1701.0 | 1610.7 | 1514.3 | 1436.1 | 1384.9 | 1354.8 | 1336.7 | 1342.7 |
| 27.5° | 2044.2 | 1971.9 | 1818.4 | 1673.9 | 1535.4 | 1409.0 | 1306.6 | 1225.3 | 1192.2 | 1168.1 | 1171.1 |
| 30° | 2170.6 | 2056.2 | 1839.5 | 1634.8 | 1439.1 | 1279.5 | 1144.0 | 1047.7 | 990.5 | 972.4 | 978.4 |
| 32.5° | 2453.6 | 2236.9 | 1863.6 | 1577.6 | 1330.7 | 1126.0 | 945.3 | 827.9 | 767.7 | 767.7 | 764.7 |
| 35° | 2926.3 | 2613.2 | 1920.8 | 1508.3 | 1210.3 | 954.4 | 722.5 | 614.2 | 611.2 | 623.2 | 626.2 |
| 37.5° | 3257.5 | 2959.4 | 2098.4 | 1442.1 | 1077.8 | 746.6 | 535.9 | 505.8 | 535.9 | 547.9 | 544.9 |
| 40° | 3471.2 | 3167.1 | 2303.1 | 1372.8 | 891.1 | 535.9 | 424.5 | 403.4 | 433.5 | 457.6 | 475.7 |
| 42.5° | 3645.8 | 3311.7 | 2396.4 | 1282.5 | 665.3 | 385.4 | 313.1 | 307.1 | 352.2 | 385.4 | 397.4 |
| 45° | 3784.3 | 3444.1 | 2408.5 | 1156.1 | 451.6 | 286.0 | 255.9 | 283.0 | 337.2 | 364.3 | 367.3 |
| 47.5° | 3895.7 | 3552.5 | 2375.4 | 954.4 | 301.1 | 249.9 | 249.9 | 286.0 | 337.2 | 364.3 | 364.3 |
| 50° | 4004.1 | 3642.8 | 2291.1 | 776.7 | 271.0 | 243.9 | 252.9 | 289.0 | 334.2 | 355.3 | 355.3 |
| 52.5° | 4094.4 | 3703.0 | 2143.5 | 620.2 | 261.9 | 237.8 | 252.9 | 289.0 | 328.2 | 337.2 | 331.2 |
| 55° | 4175.7 | 3727.1 | 2011.1 | 499.8 | 252.9 | 234.8 | 258.9 | 295.0 | 325.1 | 325.1 | 313.1 |
| 57.5° | 4220.9 | 3669.9 | 1911.7 | 412.5 | 243.9 | 234.8 | 261.9 | 301.1 | 334.2 | 340.2 | 331.2 |
| 60° | 4220.9 | 3588.6 | 1803.3 | 364.3 | 237.8 | 234.8 | 261.9 | 322.1 | 397.4 | 367.3 | 364.3 |
| 62.5° | 4163.7 | 3501.3 | 1640.8 | 325.1 | 228.8 | 237.8 | 264.9 | 358.3 | 484.7 | 364.3 | 349.2 |
| 65° | 4064.3 | 3332.7 | 1427.0 | 289.0 | 219.8 | 240.8 | 261.9 | 412.5 | 578.0 | 352.2 | 310.1 |
| 67.5° | 3877.6 | 3064.8 | 1162.1 | 252.9 | 207.7 | 234.8 | 255.9 | 379.3 | 355.3 | 292.0 | 261.9 |
| 70° | 3555.5 | 2664.4 | 806.8 | 219.8 | 198.7 | 228.8 | 255.9 | 334.2 | 316.1 | 267.9 | 234.8 |
| 72.5° | 3076.8 | 2185.7 | 433.5 | 180.6 | 174.6 | 216.8 | 249.9 | 307.1 | 271.0 | 219.8 | 198.7 |
| 75° | 2363.3 | 1553.5 | 264.9 | 141.5 | 144.5 | 192.7 | 231.8 | 292.0 | 258.9 | 210.7 | 183.6 |
| 77.5° | 1363.8 | 719.5 | 189.7 | 105.4 | 102.4 | 153.5 | 207.7 | 271.0 | 252.9 | 204.7 | 177.6 |
| 80° | 499.8 | 298.0 | 129.5 | 78.3 | 69.2 | 111.4 | 162.6 | 219.8 | 240.8 | 201.7 | 180.6 |
| 82.5° | 213.8 | 159.6 | 84.3 | 54.2 | 51.2 | 63.2 | 99.3 | 153.5 | 201.7 | 162.6 | 150.5 |
| 85° | 30.1 | 30.1 | 30.1 | 27.1 | 30.1 | 39.1 | 42.1 | 75.3 | 111.4 | 60.2 | 60.2 |
| 87.5° | 12.0 | 12.0 | 12.0 | 12.0 | 15.1 | 15.1 | 12.0 | 12.0 | 9.0 | 9.0 | 9.0 |
| 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)