

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P621734

Luminaire Tested: VLT-FA-150U-100D-835-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621734
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-21)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FA-150U-100D-835-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

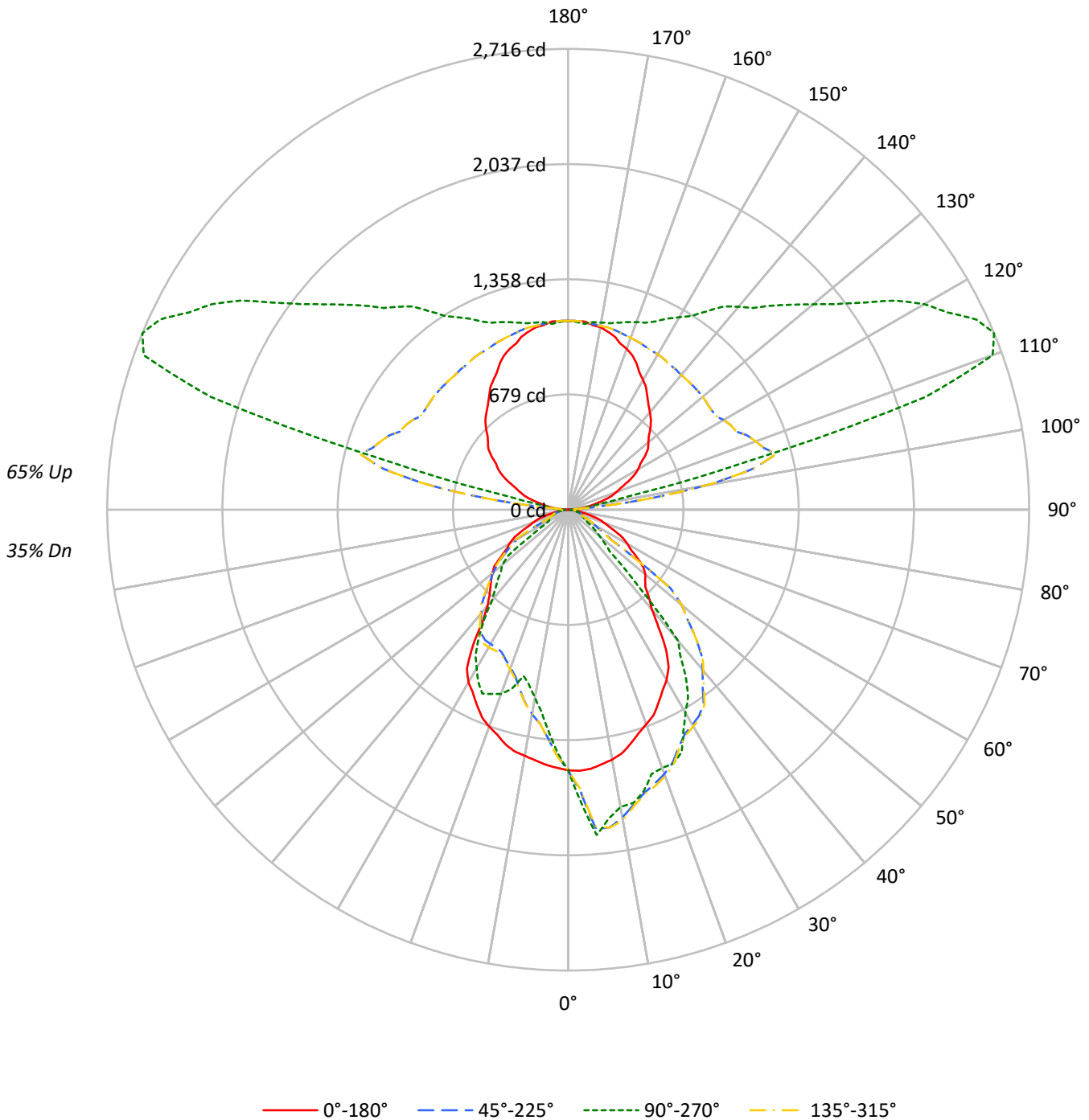
Lumens per Lamp: N/A
Luminaire Lumens: 9147.7 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 77.8
Input Voltage (V): 120
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



TEST NUMBER: P621734
CATALOG NUMBER: VLT-FA-150U-100D-835-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621734

CATALOG NUMBER: VLT-FA-150U-100D-835-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 75 | 75 | 75 | 58 | 58 | 58 | 42 | 42 | 42 | 35 | | | | |
| 1 | 95 | 91 | 87 | 84 | 86 | 82 | 79 | 77 | 66 | 64 | 62 | 52 | 50 | 49 | 38 | 37 | 37 | 30 | | | | |
| 2 | 87 | 80 | 74 | 70 | 78 | 73 | 68 | 64 | 59 | 55 | 53 | 46 | 44 | 42 | 34 | 33 | 32 | 26 | | | | |
| 3 | 80 | 71 | 64 | 59 | 72 | 64 | 59 | 54 | 52 | 48 | 45 | 41 | 38 | 36 | 31 | 29 | 28 | 23 | | | | |
| 4 | 73 | 63 | 56 | 50 | 66 | 57 | 51 | 46 | 47 | 42 | 39 | 37 | 34 | 31 | 28 | 26 | 24 | 20 | | | | |
| 5 | 67 | 56 | 49 | 43 | 61 | 51 | 45 | 40 | 42 | 37 | 34 | 33 | 30 | 27 | 25 | 23 | 21 | 18 | | | | |
| 6 | 62 | 51 | 43 | 37 | 56 | 46 | 40 | 35 | 38 | 33 | 29 | 30 | 27 | 24 | 23 | 21 | 19 | 16 | | | | |
| 7 | 57 | 46 | 38 | 33 | 52 | 42 | 35 | 31 | 34 | 30 | 26 | 28 | 24 | 21 | 21 | 19 | 17 | 14 | | | | |
| 8 | 53 | 41 | 34 | 29 | 48 | 38 | 32 | 27 | 31 | 27 | 23 | 25 | 22 | 19 | 19 | 17 | 15 | 13 | | | | |
| 9 | 49 | 38 | 31 | 26 | 45 | 35 | 28 | 24 | 29 | 24 | 21 | 23 | 20 | 17 | 18 | 16 | 14 | 12 | | | | |
| 10 | 46 | 35 | 28 | 23 | 42 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 17 | 14 | 13 | 11 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|-------|-------|-------|-------|
| 0° | 11018 | 11018 | 11018 | 11018 |
| 5° | 11037 | 13861 | 10868 | 9451 |
| 10° | 10892 | 12963 | 10732 | 8205 |
| 15° | 10594 | 12764 | 10629 | 7531 |
| 20° | 10270 | 12369 | 10389 | 8826 |
| 25° | 9955 | 12503 | 10067 | 9473 |
| 30° | 9603 | 11441 | 9733 | 8943 |
| 35° | 8798 | 10604 | 8579 | 8018 |
| 40° | 7169 | 9437 | 6921 | 6525 |
| 45° | 6515 | 3503 | 6578 | 5944 |
| 50° | 6626 | 2668 | 6504 | 5650 |
| 55° | 6253 | 2072 | 6038 | 3380 |
| 60° | 5761 | 1592 | 5716 | 1883 |
| 65° | 5304 | 1644 | 5197 | 1988 |
| 70° | 4719 | 1737 | 4589 | 2065 |
| 75° | 4029 | 1819 | 3854 | 2121 |
| 80° | 3033 | 1872 | 2839 | 2194 |
| 85° | 2058 | 1671 | 1803 | 2058 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12063 cd/sqm



TEST NUMBER: P621734

CATALOG NUMBER: VLT-FA-150U-100D-835-UNV-STD-W-4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 148.1 | 1.6 |
| 10°-20° | 405.7 | 4.4 |
| 20°-30° | 607.1 | 6.6 |
| 30°-40° | 690.4 | 7.5 |
| 40°-50° | 590.5 | 6.5 |
| 50°-60° | 398.2 | 4.4 |
| 60°-70° | 205.5 | 2.2 |
| 70°-80° | 92.8 | 1.0 |
| 80°-90° | 30.1 | 0.3 |
| 90°-100° | 136.8 | 1.5 |
| 100°-110° | 975.2 | 10.7 |
| 110°-120° | 1324.0 | 14.5 |
| 120°-130° | 1077.6 | 11.8 |
| 130°-140° | 866.7 | 9.5 |
| 140°-150° | 683.3 | 7.5 |
| 150°-160° | 499.6 | 5.5 |
| 160°-170° | 310.3 | 3.4 |
| 170°-180° | 105.8 | 1.2 |
| 0°-30° | 1160.9 | 12.7 |
| 0°-40° | 1851.4 | 20.2 |
| 0°-60° | 2840.1 | 31.0 |
| 0°-90° | 3168.5 | 34.6 |
| 90°-120° | 2436.0 | 26.6 |
| 90°-150° | 5063.5 | 55.4 |
| 90°-180° | 5979.0 | 65.4 |
| 0°-180° | 9147.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1535 | 1535 | 1535 | 1535 | 1535 | |
| 5° | 1532 | 1924 | 1509 | 1312 | 1532 | 145 |
| 15° | 1426 | 1718 | 1431 | 1014 | 1426 | 401 |
| 25° | 1257 | 1579 | 1271 | 1196 | 1257 | 579 |
| 35° | 1004 | 1210 | 979 | 915 | 1004 | 614 |
| 45° | 642 | 345 | 648 | 586 | 642 | 509 |
| 55° | 500 | 166 | 483 | 270 | 500 | 445 |
| 65° | 312 | 97 | 306 | 117 | 312 | 309 |
| 75° | 145 | 66 | 139 | 76 | 145 | 155 |
| 85° | 25 | 20 | 22 | 25 | 25 | 32 |
| 90° | 0 | 21 | 0 | 21 | 0 | 3 |
| 95° | 56 | 77 | 56 | 77 | 56 | 63 |
| 105° | 217 | 1071 | 217 | 1071 | 217 | 229 |
| 115° | 385 | 2653 | 385 | 2653 | 385 | 382 |
| 125° | 553 | 2128 | 553 | 2128 | 553 | 491 |
| 135° | 686 | 1701 | 686 | 1701 | 686 | 528 |
| 145° | 812 | 1428 | 812 | 1428 | 812 | 510 |
| 155° | 952 | 1225 | 952 | 1225 | 952 | 437 |
| 165° | 1057 | 1141 | 1057 | 1141 | 1057 | 297 |
| 175° | 1113 | 1099 | 1113 | 1099 | 1113 | 105 |
| 180° | 1113 | 1113 | 1113 | 1113 | 1113 | |



TEST NUMBER: P621734

CATALOG NUMBER: VLT-FA-150U-100D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 |
| 2.5° | 1540.4 | 1592.9 | 1659.1 | 1704.5 | 1724.0 | 1704.5 | 1647.8 | 1592.5 | 1522.9 | 1502.1 | 1452.9 |
| 5° | 1532.2 | 1694.1 | 1889.9 | 1913.6 | 1924.3 | 1913.6 | 1872.7 | 1684.4 | 1508.8 | 1434.0 | 1352.6 |
| 7.5° | 1513.5 | 1796.6 | 1887.7 | 1835.0 | 1835.3 | 1845.0 | 1890.6 | 1787.9 | 1489.1 | 1371.5 | 1271.7 |
| 10° | 1494.8 | 1853.7 | 1841.5 | 1765.3 | 1779.0 | 1772.9 | 1855.6 | 1842.5 | 1472.9 | 1337.0 | 1223.0 |
| 12.5° | 1469.8 | 1871.4 | 1780.3 | 1755.3 | 1770.3 | 1761.7 | 1789.3 | 1861.7 | 1459.1 | 1312.2 | 1166.8 |
| 15° | 1426.0 | 1846.0 | 1729.0 | 1718.1 | 1718.1 | 1725.8 | 1736.9 | 1853.8 | 1430.7 | 1267.3 | 1098.0 |
| 17.5° | 1381.1 | 1795.2 | 1693.4 | 1639.3 | 1633.5 | 1643.5 | 1706.2 | 1808.3 | 1390.4 | 1217.5 | 1031.5 |
| 20° | 1344.8 | 1760.2 | 1657.2 | 1593.8 | 1619.7 | 1596.8 | 1671.3 | 1769.7 | 1360.4 | 1186.3 | 990.3 |
| 22.5° | 1312.3 | 1716.7 | 1611.0 | 1583.9 | 1618.5 | 1584.6 | 1623.8 | 1726.2 | 1325.4 | 1151.3 | 959.0 |
| 25° | 1257.3 | 1643.7 | 1541.6 | 1566.9 | 1579.1 | 1566.9 | 1547.9 | 1650.2 | 1271.4 | 1106.5 | 926.2 |
| 27.5° | 1202.7 | 1566.8 | 1489.8 | 1506.7 | 1469.5 | 1498.2 | 1498.2 | 1567.1 | 1215.8 | 1054.2 | 916.2 |
| 30° | 1158.9 | 1513.3 | 1463.5 | 1438.8 | 1380.7 | 1426.6 | 1474.5 | 1513.6 | 1174.6 | 1020.3 | 913.7 |
| 32.5° | 1101.5 | 1464.3 | 1437.3 | 1351.8 | 1314.5 | 1345.7 | 1449.5 | 1463.3 | 1110.8 | 989.6 | 911.2 |
| 35° | 1004.3 | 1395.3 | 1390.1 | 1248.7 | 1210.5 | 1239.5 | 1401.0 | 1391.7 | 979.3 | 941.1 | 891.9 |
| 37.5° | 874.1 | 1333.7 | 1299.8 | 1144.4 | 1083.7 | 1136.8 | 1310.1 | 1327.1 | 823.8 | 896.8 | 846.6 |
| 40° | 765.3 | 1292.2 | 1232.4 | 1067.0 | 1007.4 | 1059.4 | 1240.2 | 1288.6 | 738.8 | 865.5 | 796.6 |
| 42.5° | 704.1 | 1255.4 | 1161.1 | 985.0 | 616.3 | 972.5 | 1168.9 | 1250.8 | 686.3 | 825.3 | 752.8 |
| 45° | 642.0 | 1188.7 | 1057.4 | 545.2 | 345.2 | 519.3 | 1059.0 | 1172.0 | 648.2 | 764.3 | 685.7 |
| 47.5° | 614.8 | 1106.5 | 949.0 | 328.4 | 291.5 | 318.9 | 948.1 | 1088.5 | 615.1 | 703.1 | 621.6 |
| 50° | 593.5 | 1054.7 | 871.6 | 289.4 | 239.0 | 278.7 | 873.1 | 1037.7 | 582.6 | 662.0 | 577.9 |
| 52.5° | 558.5 | 992.9 | 760.3 | 239.8 | 206.5 | 234.0 | 741.9 | 973.4 | 548.9 | 617.3 | 522.9 |
| 55° | 499.8 | 874.0 | 317.1 | 188.5 | 165.6 | 180.8 | 301.5 | 844.6 | 482.6 | 546.8 | 459.2 |
| 57.5° | 437.7 | 744.0 | 222.4 | 146.7 | 128.4 | 145.2 | 220.9 | 714.2 | 429.5 | 463.1 | 400.5 |
| 60° | 401.4 | 656.5 | 181.2 | 123.1 | 110.9 | 121.6 | 179.6 | 630.4 | 398.3 | 407.5 | 346.7 |
| 62.5° | 365.2 | 567.7 | 149.9 | 108.3 | 104.6 | 106.8 | 149.6 | 539.2 | 359.6 | 360.2 | 244.3 |
| 65° | 312.4 | 430.0 | 110.9 | 98.4 | 96.8 | 96.8 | 107.8 | 414.6 | 306.1 | 297.0 | 140.6 |
| 67.5° | 258.7 | 308.7 | 89.0 | 90.6 | 89.0 | 89.0 | 87.5 | 300.1 | 252.4 | 236.8 | 106.2 |
| 70° | 224.9 | 237.1 | 82.8 | 84.3 | 82.8 | 82.8 | 81.2 | 230.9 | 218.7 | 183.5 | 100.0 |
| 72.5° | 192.4 | 161.9 | 76.5 | 76.8 | 76.5 | 76.5 | 75.0 | 152.0 | 186.2 | 129.1 | 91.2 |
| 75° | 145.3 | 81.1 | 65.6 | 65.6 | 65.6 | 65.6 | 64.0 | 77.9 | 139.0 | 84.0 | 78.1 |
| 77.5° | 100.9 | 53.6 | 54.4 | 54.0 | 54.0 | 52.8 | 52.8 | 53.1 | 95.0 | 58.0 | 63.1 |
| 80° | 73.4 | 44.4 | 46.9 | 45.3 | 45.3 | 45.3 | 45.3 | 42.8 | 68.7 | 48.9 | 53.1 |
| 82.5° | 52.2 | 35.4 | 38.1 | 36.5 | 36.5 | 36.5 | 36.5 | 35.0 | 47.5 | 39.8 | 43.1 |
| 85° | 25.0 | 23.5 | 25.0 | 21.8 | 20.3 | 21.8 | 23.4 | 23.4 | 21.9 | 26.4 | 28.1 |
| 87.5° | 7.5 | 12.5 | 12.8 | 11.7 | 11.7 | 11.7 | 11.5 | 11.3 | 6.2 | 13.7 | 14.0 |
| 90° | 0.0 | 6.8 | 14.0 | 21.0 | 21.0 | 21.0 | 14.0 | 6.8 | 0.0 | 6.8 | 14.0 |
| 92.5° | 16.8 | 23.6 | 30.8 | 43.5 | 49.0 | 43.5 | 30.8 | 23.6 | 16.8 | 23.6 | 30.8 |
| 95° | 56.0 | 103.9 | 56.0 | 63.3 | 77.0 | 63.3 | 56.0 | 103.9 | 56.0 | 103.9 | 56.0 |
| 97.5° | 99.4 | 199.3 | 411.6 | 121.4 | 105.0 | 121.4 | 411.6 | 199.3 | 99.4 | 199.3 | 411.6 |
| 100° | 133.0 | 249.4 | 826.1 | 243.2 | 161.0 | 243.2 | 826.1 | 249.4 | 133.0 | 249.4 | 826.1 |
| 102.5° | 166.6 | 288.5 | 1117.3 | 641.7 | 351.4 | 641.7 | 1117.3 | 288.5 | 166.6 | 288.5 | 1117.3 |
| 105° | 217.0 | 333.4 | 1267.1 | 1618.7 | 1071.1 | 1618.7 | 1267.1 | 333.4 | 217.0 | 333.4 | 1267.1 |
| 107.5° | 267.4 | 355.0 | 1209.7 | 2355.8 | 2206.6 | 2355.8 | 1209.7 | 355.0 | 267.4 | 355.0 | 1209.7 |
| 110° | 301.0 | 383.2 | 1176.1 | 2475.4 | 2660.2 | 2475.4 | 1176.1 | 383.2 | 301.0 | 383.2 | 1176.1 |



TEST NUMBER: P621734

CATALOG NUMBER: VLT-FA-150U-100D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 334.6 | 416.8 | 1142.5 | 2405.5 | 2716.2 | 2405.5 | 1142.5 | 416.8 | 334.6 | 416.8 | 1142.5 |
| 115° | 385.0 | 467.2 | 1092.1 | 2269.9 | 2653.2 | 2269.9 | 1092.1 | 467.2 | 385.0 | 467.2 | 1092.1 |
| 117.5° | 436.8 | 517.6 | 1079.5 | 2123.1 | 2517.4 | 2123.1 | 1079.5 | 517.6 | 436.8 | 517.6 | 1079.5 |
| 120° | 476.0 | 551.3 | 1057.1 | 2011.5 | 2422.2 | 2011.5 | 1057.1 | 551.3 | 476.0 | 551.3 | 1057.1 |
| 122.5° | 504.0 | 584.8 | 1029.1 | 1915.6 | 2293.4 | 1915.6 | 1029.1 | 584.8 | 504.0 | 584.8 | 1029.1 |
| 125° | 553.0 | 628.3 | 1029.1 | 1799.6 | 2128.2 | 1799.6 | 1029.1 | 628.3 | 553.0 | 628.3 | 1029.1 |
| 127.5° | 593.7 | 670.3 | 1030.5 | 1665.1 | 1989.6 | 1665.1 | 1030.5 | 670.3 | 593.7 | 670.3 | 1030.5 |
| 130° | 616.1 | 698.2 | 1036.1 | 1575.1 | 1883.2 | 1575.1 | 1036.1 | 698.2 | 616.1 | 698.2 | 1036.1 |
| 132.5° | 644.1 | 726.2 | 1036.1 | 1534.7 | 1788.0 | 1534.7 | 1036.1 | 726.2 | 644.1 | 726.2 | 1036.1 |
| 135° | 686.1 | 761.4 | 1036.1 | 1482.1 | 1701.2 | 1482.1 | 1036.1 | 761.4 | 686.1 | 761.4 | 1036.1 |
| 137.5° | 721.1 | 801.8 | 1036.1 | 1424.0 | 1611.5 | 1424.0 | 1036.1 | 801.8 | 721.1 | 801.8 | 1036.1 |
| 140° | 749.1 | 824.4 | 1036.1 | 1390.0 | 1561.1 | 1390.0 | 1036.1 | 824.4 | 749.1 | 824.4 | 1036.1 |
| 142.5° | 777.1 | 846.9 | 1041.7 | 1350.6 | 1510.7 | 1350.6 | 1041.7 | 846.9 | 777.1 | 846.9 | 1041.7 |
| 145° | 812.1 | 880.5 | 1043.1 | 1291.2 | 1428.1 | 1291.2 | 1043.1 | 880.5 | 812.1 | 880.5 | 1043.1 |
| 147.5° | 854.1 | 914.3 | 1051.5 | 1248.5 | 1353.9 | 1248.5 | 1051.5 | 914.3 | 854.1 | 914.3 | 1051.5 |
| 150° | 882.1 | 936.8 | 1057.1 | 1220.1 | 1309.1 | 1220.1 | 1057.1 | 936.8 | 882.1 | 936.8 | 1057.1 |
| 152.5° | 910.1 | 959.4 | 1057.1 | 1197.4 | 1269.9 | 1197.4 | 1057.1 | 959.4 | 910.1 | 959.4 | 1057.1 |
| 155° | 952.1 | 986.3 | 1064.1 | 1170.3 | 1225.1 | 1170.3 | 1064.1 | 986.3 | 952.1 | 986.3 | 1064.1 |
| 157.5° | 985.7 | 1018.5 | 1072.5 | 1153.2 | 1192.9 | 1153.2 | 1072.5 | 1018.5 | 985.7 | 1018.5 | 1072.5 |
| 160° | 1008.1 | 1035.5 | 1078.1 | 1141.9 | 1176.1 | 1141.9 | 1078.1 | 1035.5 | 1008.1 | 1035.5 | 1078.1 |
| 162.5° | 1024.9 | 1052.3 | 1083.7 | 1136.0 | 1159.3 | 1136.0 | 1083.7 | 1052.3 | 1024.9 | 1052.3 | 1083.7 |
| 165° | 1057.1 | 1070.8 | 1092.1 | 1120.6 | 1141.1 | 1120.6 | 1092.1 | 1070.8 | 1057.1 | 1070.8 | 1092.1 |
| 167.5° | 1075.3 | 1087.6 | 1099.1 | 1113.4 | 1125.7 | 1113.4 | 1099.1 | 1087.6 | 1075.3 | 1087.6 | 1099.1 |
| 170° | 1092.1 | 1098.9 | 1099.1 | 1113.3 | 1120.1 | 1113.3 | 1099.1 | 1098.9 | 1092.1 | 1098.9 | 1099.1 |
| 172.5° | 1097.7 | 1110.0 | 1104.7 | 1107.7 | 1114.5 | 1107.7 | 1104.7 | 1110.0 | 1097.7 | 1110.0 | 1104.7 |
| 175° | 1113.1 | 1119.9 | 1113.1 | 1105.9 | 1099.1 | 1105.9 | 1113.1 | 1119.9 | 1113.1 | 1119.9 | 1113.1 |
| 177.5° | 1113.1 | 1118.6 | 1113.1 | 1113.0 | 1107.5 | 1113.0 | 1113.1 | 1118.6 | 1113.1 | 1118.6 | 1113.1 |
| 180° | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 |



TEST NUMBER: P621734

CATALOG NUMBER: VLT-FA-150U-100D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 | 1535.4 |
| 2.5° | 1435.4 | 1434.2 | 1436.6 | 1457.9 | 1501.3 | 1540.4 |
| 5° | 1307.4 | 1312.0 | 1316.6 | 1352.6 | 1428.4 | 1532.2 |
| 7.5° | 1209.1 | 1202.4 | 1212.8 | 1271.4 | 1364.4 | 1513.5 |
| 10° | 1141.4 | 1126.1 | 1141.4 | 1221.4 | 1329.8 | 1494.8 |
| 12.5° | 1077.6 | 1058.7 | 1082.5 | 1170.2 | 1301.2 | 1469.8 |
| 15° | 995.4 | 1013.7 | 1003.0 | 1101.2 | 1258.0 | 1426.0 |
| 17.5° | 1014.8 | 1107.1 | 1034.4 | 1041.2 | 1215.2 | 1381.1 |
| 20° | 1061.1 | 1155.8 | 1091.7 | 1001.2 | 1187.5 | 1344.8 |
| 22.5° | 1103.1 | 1174.6 | 1116.5 | 967.5 | 1159.9 | 1312.3 |
| 25° | 1135.3 | 1196.4 | 1132.3 | 937.2 | 1119.9 | 1257.3 |
| 27.5° | 1137.0 | 1145.5 | 1137.6 | 934.7 | 1070.4 | 1202.7 |
| 30° | 1115.9 | 1079.3 | 1112.9 | 937.2 | 1035.2 | 1158.9 |
| 32.5° | 1055.9 | 1014.3 | 1043.0 | 932.2 | 999.8 | 1101.5 |
| 35° | 970.3 | 915.3 | 955.0 | 905.9 | 944.8 | 1004.3 |
| 37.5° | 880.0 | 810.3 | 865.3 | 854.1 | 897.9 | 874.1 |
| 40° | 818.8 | 696.6 | 806.6 | 802.8 | 872.2 | 765.3 |
| 42.5° | 740.5 | 636.6 | 729.5 | 761.6 | 844.0 | 704.1 |
| 45° | 597.9 | 585.7 | 591.8 | 691.9 | 784.0 | 642.0 |
| 47.5° | 546.8 | 538.6 | 543.7 | 628.5 | 716.2 | 614.8 |
| 50° | 516.8 | 506.1 | 513.7 | 587.3 | 672.9 | 593.5 |
| 52.5° | 475.1 | 446.1 | 472.0 | 531.1 | 628.2 | 558.5 |
| 55° | 357.3 | 270.2 | 355.7 | 467.0 | 560.9 | 499.8 |
| 57.5° | 209.6 | 156.2 | 205.1 | 406.4 | 475.2 | 437.7 |
| 60° | 141.9 | 131.2 | 143.4 | 357.7 | 418.2 | 401.4 |
| 62.5° | 129.6 | 126.2 | 129.9 | 249.0 | 367.3 | 365.2 |
| 65° | 118.7 | 117.1 | 118.7 | 143.7 | 303.2 | 312.4 |
| 67.5° | 107.4 | 105.9 | 108.6 | 110.3 | 239.4 | 258.7 |
| 70° | 99.9 | 98.4 | 99.9 | 101.5 | 183.7 | 224.9 |
| 72.5° | 91.2 | 89.7 | 91.2 | 92.8 | 129.2 | 192.4 |
| 75° | 78.1 | 76.5 | 78.1 | 79.7 | 85.7 | 145.3 |
| 77.5° | 63.1 | 63.1 | 64.6 | 64.7 | 60.0 | 100.9 |
| 80° | 53.1 | 53.1 | 54.6 | 54.7 | 52.0 | 73.4 |
| 82.5° | 43.1 | 41.9 | 44.6 | 45.9 | 43.0 | 52.2 |
| 85° | 26.5 | 25.0 | 28.0 | 29.7 | 28.0 | 25.0 |
| 87.5° | 14.2 | 12.9 | 15.4 | 16.5 | 15.0 | 7.5 |
| 90° | 21.0 | 21.0 | 21.0 | 14.0 | 6.8 | 0.0 |
| 92.5° | 43.5 | 49.0 | 43.5 | 30.8 | 23.6 | 16.8 |
| 95° | 63.3 | 77.0 | 63.3 | 56.0 | 103.9 | 56.0 |
| 97.5° | 121.4 | 105.0 | 121.4 | 411.6 | 199.3 | 99.4 |
| 100° | 243.2 | 161.0 | 243.2 | 826.1 | 249.4 | 133.0 |
| 102.5° | 641.7 | 351.4 | 641.7 | 1117.3 | 288.5 | 166.6 |
| 105° | 1618.7 | 1071.1 | 1618.7 | 1267.1 | 333.4 | 217.0 |
| 107.5° | 2355.8 | 2206.6 | 2355.8 | 1209.7 | 355.0 | 267.4 |
| 110° | 2475.4 | 2660.2 | 2475.4 | 1176.1 | 383.2 | 301.0 |



TEST NUMBER: P621734

CATALOG NUMBER: VLT-FA-150U-100D-835-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 112.5° | 2405.5 | 2716.2 | 2405.5 | 1142.5 | 416.8 | 334.6 |
| 115° | 2269.9 | 2653.2 | 2269.9 | 1092.1 | 467.2 | 385.0 |
| 117.5° | 2123.1 | 2517.4 | 2123.1 | 1079.5 | 517.6 | 436.8 |
| 120° | 2011.5 | 2422.2 | 2011.5 | 1057.1 | 551.3 | 476.0 |
| 122.5° | 1915.6 | 2293.4 | 1915.6 | 1029.1 | 584.8 | 504.0 |
| 125° | 1799.6 | 2128.2 | 1799.6 | 1029.1 | 628.3 | 553.0 |
| 127.5° | 1665.1 | 1989.6 | 1665.1 | 1030.5 | 670.3 | 593.7 |
| 130° | 1575.1 | 1883.2 | 1575.1 | 1036.1 | 698.2 | 616.1 |
| 132.5° | 1534.7 | 1788.0 | 1534.7 | 1036.1 | 726.2 | 644.1 |
| 135° | 1482.1 | 1701.2 | 1482.1 | 1036.1 | 761.4 | 686.1 |
| 137.5° | 1424.0 | 1611.5 | 1424.0 | 1036.1 | 801.8 | 721.1 |
| 140° | 1390.0 | 1561.1 | 1390.0 | 1036.1 | 824.4 | 749.1 |
| 142.5° | 1350.6 | 1510.7 | 1350.6 | 1041.7 | 846.9 | 777.1 |
| 145° | 1291.2 | 1428.1 | 1291.2 | 1043.1 | 880.5 | 812.1 |
| 147.5° | 1248.5 | 1353.9 | 1248.5 | 1051.5 | 914.3 | 854.1 |
| 150° | 1220.1 | 1309.1 | 1220.1 | 1057.1 | 936.8 | 882.1 |
| 152.5° | 1197.4 | 1269.9 | 1197.4 | 1057.1 | 959.4 | 910.1 |
| 155° | 1170.3 | 1225.1 | 1170.3 | 1064.1 | 986.3 | 952.1 |
| 157.5° | 1153.2 | 1192.9 | 1153.2 | 1072.5 | 1018.5 | 985.7 |
| 160° | 1141.9 | 1176.1 | 1141.9 | 1078.1 | 1035.5 | 1008.1 |
| 162.5° | 1136.0 | 1159.3 | 1136.0 | 1083.7 | 1052.3 | 1024.9 |
| 165° | 1120.6 | 1141.1 | 1120.6 | 1092.1 | 1070.8 | 1057.1 |
| 167.5° | 1113.4 | 1125.7 | 1113.4 | 1099.1 | 1087.6 | 1075.3 |
| 170° | 1113.3 | 1120.1 | 1113.3 | 1099.1 | 1098.9 | 1092.1 |
| 172.5° | 1107.7 | 1114.5 | 1107.7 | 1104.7 | 1110.0 | 1097.7 |
| 175° | 1105.9 | 1099.1 | 1105.9 | 1113.1 | 1119.9 | 1113.1 |
| 177.5° | 1113.0 | 1107.5 | 1113.0 | 1113.1 | 1118.6 | 1113.1 |
| 180° | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 | 1113.1 |

(END OF REPORT)