

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P621593

Luminaire Tested: VLT-FA-025U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621593
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-025U-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

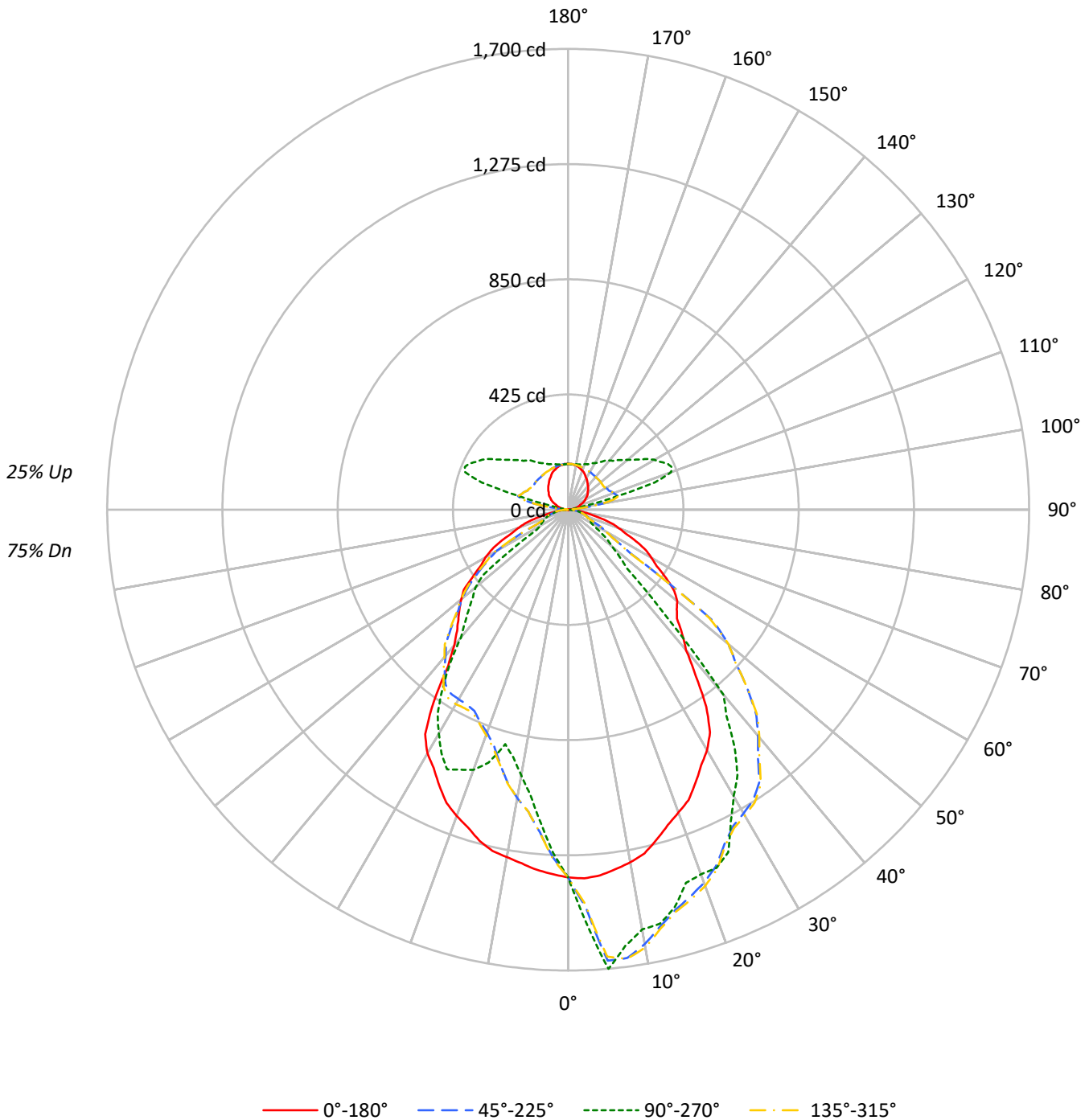
Lumens per Lamp: N/A
Luminaire Lumens: 3706.1 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 37.5
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: P621593
CATALOG NUMBER: VLT-FA-025U-100D-935-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P621593

CATALOG NUMBER: VLT-FA-025U-100D-935-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|--|--|--|--|--|--|----|---|
| RF | 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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 97 | 97 | 97 | 88 | 88 | 88 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 75 | | | | | | | | | | | | | | |
| 1 | 105 | 101 | 97 | 94 | 100 | 96 | 93 | 90 | 88 | 85 | 83 | 80 | 78 | 76 | 72 | 71 | 70 | 72 | 71 | 70 | 72 | 71 | 70 | 66 | | | | | | | | | | | | | | |
| 2 | 96 | 90 | 84 | 79 | 92 | 86 | 81 | 76 | 78 | 74 | 71 | 71 | 68 | 66 | 65 | 63 | 61 | 65 | 63 | 61 | 65 | 63 | 61 | 57 | | | | | | | | | | | | | | |
| 3 | 89 | 80 | 73 | 67 | 84 | 76 | 70 | 65 | 70 | 65 | 61 | 64 | 60 | 57 | 59 | 56 | 53 | 59 | 56 | 53 | 59 | 56 | 53 | 50 | | | | | | | | | | | | | | |
| 4 | 82 | 72 | 64 | 58 | 78 | 69 | 62 | 56 | 63 | 58 | 53 | 58 | 54 | 50 | 53 | 50 | 47 | 53 | 50 | 47 | 53 | 50 | 47 | 44 | | | | | | | | | | | | | | |
| 5 | 76 | 64 | 57 | 51 | 72 | 62 | 55 | 49 | 57 | 51 | 47 | 53 | 48 | 44 | 49 | 45 | 41 | 49 | 45 | 41 | 49 | 45 | 41 | 39 | | | | | | | | | | | | | | |
| 6 | 70 | 58 | 51 | 45 | 67 | 56 | 49 | 44 | 52 | 46 | 41 | 48 | 43 | 39 | 45 | 40 | 37 | 45 | 40 | 37 | 45 | 40 | 37 | 35 | | | | | | | | | | | | | | |
| 7 | 65 | 53 | 45 | 40 | 62 | 51 | 44 | 39 | 48 | 42 | 37 | 44 | 39 | 35 | 41 | 37 | 33 | 41 | 37 | 33 | 41 | 37 | 33 | 31 | | | | | | | | | | | | | | |
| 8 | 61 | 49 | 41 | 36 | 58 | 47 | 40 | 35 | 44 | 38 | 33 | 41 | 36 | 32 | 38 | 33 | 30 | 38 | 33 | 30 | 38 | 33 | 30 | 28 | | | | | | | | | | | | | | |
| 9 | 57 | 45 | 37 | 32 | 54 | 43 | 36 | 32 | 40 | 34 | 30 | 38 | 33 | 29 | 35 | 31 | 27 | 35 | 31 | 27 | 35 | 31 | 27 | 26 | | | | | | | | | | | | | | |
| 10 | 53 | 41 | 34 | 29 | 51 | 40 | 33 | 29 | 37 | 32 | 28 | 35 | 30 | 26 | 33 | 28 | 25 | 33 | 28 | 25 | 33 | 28 | 25 | 23 | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|-------|------|------|
| 0° | 9736 | 9736 | 9736 | 9736 |
| 5° | 9753 | 12249 | 9604 | 8352 |
| 10° | 9625 | 11455 | 9484 | 7251 |
| 15° | 9361 | 11279 | 9393 | 6654 |
| 20° | 9075 | 10930 | 9181 | 7799 |
| 25° | 8797 | 11048 | 8896 | 8371 |
| 30° | 8486 | 10110 | 8600 | 7902 |
| 35° | 7775 | 9371 | 7581 | 7085 |
| 40° | 6335 | 8339 | 6115 | 5767 |
| 45° | 5757 | 3095 | 5813 | 5253 |
| 50° | 5855 | 2358 | 5747 | 4992 |
| 55° | 5526 | 1830 | 5336 | 2988 |
| 60° | 5091 | 1406 | 5052 | 1663 |
| 65° | 4686 | 1453 | 4593 | 1757 |
| 70° | 4169 | 1536 | 4054 | 1825 |
| 75° | 3560 | 1608 | 3405 | 1874 |
| 80° | 2682 | 1653 | 2508 | 1938 |
| 85° | 1820 | 1474 | 1589 | 1820 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10660 cd/sqm



TEST NUMBER: P621593

CATALOG NUMBER: VLT-FA-025U-100D-935-UNV-STD-W-4

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 130.9 | 3.5 |
| 10°-20° | 358.5 | 9.7 |
| 20°-30° | 536.5 | 14.5 |
| 30°-40° | 610.1 | 16.5 |
| 40°-50° | 521.8 | 14.1 |
| 50°-60° | 351.9 | 9.5 |
| 60°-70° | 181.6 | 4.9 |
| 70°-80° | 82.0 | 2.2 |
| 80°-90° | 24.8 | 0.7 |
| 90°-100° | 20.8 | 0.6 |
| 100°-110° | 148.1 | 4.0 |
| 110°-120° | 201.1 | 5.4 |
| 120°-130° | 163.6 | 4.4 |
| 130°-140° | 131.6 | 3.6 |
| 140°-150° | 103.8 | 2.8 |
| 150°-160° | 75.9 | 2.0 |
| 160°-170° | 47.1 | 1.3 |
| 170°-180° | 16.1 | 0.4 |
| 0°-30° | 1025.9 | 27.7 |
| 0°-40° | 1636.0 | 44.1 |
| 0°-60° | 2509.6 | 67.7 |
| 0°-90° | 2798.0 | 75.5 |
| 90°-120° | 369.9 | 10.0 |
| 90°-150° | 769.0 | 20.7 |
| 90°-180° | 908.0 | 24.5 |
| 0°-180° | 3706.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|------|------|------|------|------|------|------|
| 0° | 1357 | 1357 | 1357 | 1357 | 1357 | |
| 5° | 1354 | 1700 | 1333 | 1159 | 1354 | 128 |
| 15° | 1260 | 1518 | 1264 | 896 | 1260 | 355 |
| 25° | 1111 | 1395 | 1124 | 1057 | 1111 | 511 |
| 35° | 888 | 1070 | 865 | 809 | 888 | 543 |
| 45° | 567 | 305 | 573 | 518 | 567 | 450 |
| 55° | 442 | 146 | 426 | 239 | 442 | 394 |
| 65° | 276 | 86 | 270 | 104 | 276 | 273 |
| 75° | 128 | 58 | 123 | 68 | 128 | 137 |
| 85° | 22 | 18 | 19 | 22 | 22 | 28 |
| 90° | 0 | 3 | 0 | 3 | 0 | 1 |
| 95° | 8 | 12 | 8 | 12 | 8 | 10 |
| 105° | 33 | 163 | 33 | 163 | 33 | 35 |
| 115° | 58 | 403 | 58 | 403 | 58 | 58 |
| 125° | 84 | 323 | 84 | 323 | 84 | 75 |
| 135° | 104 | 258 | 104 | 258 | 104 | 80 |
| 145° | 123 | 217 | 123 | 217 | 123 | 77 |
| 155° | 145 | 186 | 145 | 186 | 145 | 66 |
| 165° | 160 | 173 | 160 | 173 | 160 | 45 |
| 175° | 169 | 167 | 169 | 167 | 169 | 16 |
| 180° | 169 | 169 | 169 | 169 | 169 | |



TEST NUMBER: P621593

CATALOG NUMBER: VLT-FA-025U-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 |
| 2.5° | 1361.2 | 1407.6 | 1466.0 | 1506.2 | 1523.5 | 1506.2 | 1456.1 | 1407.2 | 1345.7 | 1327.3 | 1283.9 |
| 5° | 1354.0 | 1497.0 | 1670.0 | 1691.0 | 1700.4 | 1691.0 | 1654.9 | 1488.5 | 1333.3 | 1267.1 | 1195.3 |
| 7.5° | 1337.4 | 1587.6 | 1668.1 | 1621.5 | 1621.7 | 1630.4 | 1670.6 | 1579.9 | 1315.9 | 1212.0 | 1123.8 |
| 10° | 1320.9 | 1638.0 | 1627.3 | 1559.9 | 1572.0 | 1566.6 | 1639.7 | 1628.1 | 1301.5 | 1181.4 | 1080.7 |
| 12.5° | 1298.8 | 1653.7 | 1573.2 | 1551.1 | 1564.3 | 1556.8 | 1581.2 | 1645.1 | 1289.4 | 1159.6 | 1031.0 |
| 15° | 1260.1 | 1631.2 | 1527.9 | 1518.2 | 1518.2 | 1525.0 | 1534.8 | 1638.1 | 1264.3 | 1119.9 | 970.3 |
| 17.5° | 1220.4 | 1586.4 | 1496.4 | 1448.5 | 1443.4 | 1452.3 | 1507.7 | 1597.9 | 1228.7 | 1075.9 | 911.5 |
| 20° | 1188.4 | 1555.4 | 1464.4 | 1408.3 | 1431.3 | 1411.0 | 1476.8 | 1563.8 | 1202.2 | 1048.3 | 875.0 |
| 22.5° | 1159.6 | 1517.0 | 1423.5 | 1399.7 | 1430.2 | 1400.2 | 1434.9 | 1525.4 | 1171.2 | 1017.4 | 847.4 |
| 25° | 1111.1 | 1452.5 | 1362.3 | 1384.6 | 1395.4 | 1384.6 | 1367.8 | 1458.2 | 1123.5 | 977.7 | 818.5 |
| 27.5° | 1062.8 | 1384.5 | 1316.4 | 1331.4 | 1298.5 | 1323.9 | 1323.9 | 1384.7 | 1074.3 | 931.6 | 809.6 |
| 30° | 1024.1 | 1337.2 | 1293.2 | 1271.4 | 1220.1 | 1260.6 | 1302.9 | 1337.5 | 1037.9 | 901.6 | 807.4 |
| 32.5° | 973.3 | 1294.0 | 1270.1 | 1194.5 | 1161.6 | 1189.1 | 1280.8 | 1293.1 | 981.6 | 874.4 | 805.2 |
| 35° | 887.5 | 1232.9 | 1228.4 | 1103.4 | 1069.7 | 1095.3 | 1238.0 | 1229.8 | 865.4 | 831.6 | 788.1 |
| 37.5° | 772.4 | 1178.6 | 1148.6 | 1011.3 | 957.6 | 1004.5 | 1157.7 | 1172.7 | 727.9 | 792.4 | 748.1 |
| 40° | 676.3 | 1141.9 | 1089.0 | 942.9 | 890.2 | 936.1 | 1095.9 | 1138.7 | 652.8 | 764.8 | 703.9 |
| 42.5° | 622.2 | 1109.4 | 1026.0 | 870.4 | 544.6 | 859.3 | 1032.9 | 1105.2 | 606.5 | 729.3 | 665.3 |
| 45° | 567.3 | 1050.4 | 934.4 | 481.8 | 305.0 | 458.9 | 935.8 | 1035.7 | 572.8 | 675.3 | 605.9 |
| 47.5° | 543.2 | 977.8 | 838.6 | 290.2 | 257.5 | 281.8 | 837.8 | 961.9 | 543.5 | 621.3 | 549.3 |
| 50° | 524.5 | 932.0 | 770.2 | 255.7 | 211.2 | 246.3 | 771.5 | 917.0 | 514.8 | 585.0 | 510.7 |
| 52.5° | 493.6 | 877.4 | 671.9 | 211.9 | 182.5 | 206.8 | 655.6 | 860.2 | 485.0 | 545.5 | 462.1 |
| 55° | 441.7 | 772.3 | 280.2 | 166.5 | 146.3 | 159.8 | 266.4 | 746.3 | 426.5 | 483.2 | 405.8 |
| 57.5° | 386.7 | 657.4 | 196.5 | 129.6 | 113.5 | 128.3 | 195.2 | 631.1 | 379.6 | 409.2 | 353.9 |
| 60° | 354.7 | 580.1 | 160.1 | 108.8 | 98.0 | 107.4 | 158.7 | 557.1 | 352.0 | 360.0 | 306.4 |
| 62.5° | 322.7 | 501.6 | 132.5 | 95.7 | 92.5 | 94.4 | 132.2 | 476.4 | 317.7 | 318.3 | 215.9 |
| 65° | 276.0 | 380.0 | 98.0 | 86.9 | 85.6 | 85.6 | 95.2 | 366.3 | 270.5 | 262.4 | 124.2 |
| 67.5° | 228.6 | 272.8 | 78.7 | 80.0 | 78.7 | 78.7 | 77.3 | 265.1 | 223.0 | 209.3 | 93.9 |
| 70° | 198.7 | 209.5 | 73.2 | 74.5 | 73.2 | 73.2 | 71.8 | 204.0 | 193.2 | 162.2 | 88.3 |
| 72.5° | 170.0 | 143.1 | 67.6 | 67.9 | 67.6 | 67.6 | 66.2 | 134.3 | 164.5 | 114.0 | 80.6 |
| 75° | 128.4 | 71.7 | 58.0 | 58.0 | 58.0 | 58.0 | 56.6 | 68.9 | 122.8 | 74.3 | 69.0 |
| 77.5° | 89.2 | 47.3 | 48.0 | 47.8 | 47.8 | 46.7 | 46.7 | 46.9 | 83.9 | 51.3 | 55.8 |
| 80° | 64.9 | 39.2 | 41.4 | 40.0 | 40.0 | 40.0 | 40.0 | 37.8 | 60.7 | 43.2 | 46.9 |
| 82.5° | 46.1 | 31.3 | 33.7 | 32.3 | 32.3 | 32.3 | 32.3 | 30.9 | 42.0 | 35.2 | 38.1 |
| 85° | 22.1 | 20.7 | 22.1 | 19.3 | 17.9 | 19.3 | 20.7 | 20.7 | 19.3 | 23.4 | 24.8 |
| 87.5° | 6.6 | 10.1 | 9.3 | 7.3 | 7.3 | 7.3 | 8.2 | 9.0 | 5.5 | 11.1 | 10.4 |
| 90° | 0.0 | 1.0 | 2.1 | 3.2 | 3.2 | 3.2 | 2.1 | 1.0 | 0.0 | 1.0 | 2.1 |
| 92.5° | 2.6 | 3.6 | 4.7 | 6.6 | 7.4 | 6.6 | 4.7 | 3.6 | 2.6 | 3.6 | 4.7 |
| 95° | 8.5 | 15.8 | 8.5 | 9.6 | 11.7 | 9.6 | 8.5 | 15.8 | 8.5 | 15.8 | 8.5 |
| 97.5° | 15.1 | 30.3 | 62.5 | 18.4 | 15.9 | 18.4 | 62.5 | 30.3 | 15.1 | 30.3 | 62.5 |
| 100° | 20.2 | 37.9 | 125.5 | 36.9 | 24.5 | 36.9 | 125.5 | 37.9 | 20.2 | 37.9 | 125.5 |
| 102.5° | 25.3 | 43.8 | 169.7 | 97.4 | 53.4 | 97.4 | 169.7 | 43.8 | 25.3 | 43.8 | 169.7 |
| 105° | 33.0 | 50.6 | 192.4 | 245.8 | 162.7 | 245.8 | 192.4 | 50.6 | 33.0 | 50.6 | 192.4 |
| 107.5° | 40.6 | 53.9 | 183.7 | 357.8 | 335.1 | 357.8 | 183.7 | 53.9 | 40.6 | 53.9 | 183.7 |
| 110° | 45.7 | 58.2 | 178.6 | 375.9 | 404.0 | 375.9 | 178.6 | 58.2 | 45.7 | 58.2 | 178.6 |



TEST NUMBER: P621593

CATALOG NUMBER: VLT-FA-025U-100D-935-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° | 50.8 | 63.3 | 173.5 | 365.3 | 412.5 | 365.3 | 173.5 | 63.3 | 50.8 | 63.3 | 173.5 |
| 115° | 58.5 | 70.9 | 165.9 | 344.7 | 402.9 | 344.7 | 165.9 | 70.9 | 58.5 | 70.9 | 165.9 |
| 117.5° | 66.3 | 78.6 | 163.9 | 322.4 | 382.3 | 322.4 | 163.9 | 78.6 | 66.3 | 78.6 | 163.9 |
| 120° | 72.3 | 83.7 | 160.5 | 305.5 | 367.9 | 305.5 | 160.5 | 83.7 | 72.3 | 83.7 | 160.5 |
| 122.5° | 76.5 | 88.8 | 156.3 | 290.9 | 348.3 | 290.9 | 156.3 | 88.8 | 76.5 | 88.8 | 156.3 |
| 125° | 84.0 | 95.4 | 156.3 | 273.3 | 323.2 | 273.3 | 156.3 | 95.4 | 84.0 | 95.4 | 156.3 |
| 127.5° | 90.2 | 101.8 | 156.5 | 252.9 | 302.2 | 252.9 | 156.5 | 101.8 | 90.2 | 101.8 | 156.5 |
| 130° | 93.6 | 106.0 | 157.4 | 239.2 | 286.0 | 239.2 | 157.4 | 106.0 | 93.6 | 106.0 | 157.4 |
| 132.5° | 97.8 | 110.3 | 157.4 | 233.1 | 271.5 | 233.1 | 157.4 | 110.3 | 97.8 | 110.3 | 157.4 |
| 135° | 104.2 | 115.6 | 157.4 | 225.1 | 258.4 | 225.1 | 157.4 | 115.6 | 104.2 | 115.6 | 157.4 |
| 137.5° | 109.5 | 121.8 | 157.4 | 216.3 | 244.7 | 216.3 | 157.4 | 121.8 | 109.5 | 121.8 | 157.4 |
| 140° | 113.8 | 125.2 | 157.4 | 211.1 | 237.1 | 211.1 | 157.4 | 125.2 | 113.8 | 125.2 | 157.4 |
| 142.5° | 118.0 | 128.6 | 158.2 | 205.1 | 229.4 | 205.1 | 158.2 | 128.6 | 118.0 | 128.6 | 158.2 |
| 145° | 123.3 | 133.7 | 158.4 | 196.1 | 216.9 | 196.1 | 158.4 | 133.7 | 123.3 | 133.7 | 158.4 |
| 147.5° | 129.7 | 138.9 | 159.7 | 189.6 | 205.6 | 189.6 | 159.7 | 138.9 | 129.7 | 138.9 | 159.7 |
| 150° | 134.0 | 142.3 | 160.5 | 185.3 | 198.8 | 185.3 | 160.5 | 142.3 | 134.0 | 142.3 | 160.5 |
| 152.5° | 138.2 | 145.7 | 160.5 | 181.8 | 192.9 | 181.8 | 160.5 | 145.7 | 138.2 | 145.7 | 160.5 |
| 155° | 144.6 | 149.8 | 161.6 | 177.7 | 186.1 | 177.7 | 161.6 | 149.8 | 144.6 | 149.8 | 161.6 |
| 157.5° | 149.7 | 154.7 | 162.9 | 175.1 | 181.2 | 175.1 | 162.9 | 154.7 | 149.7 | 154.7 | 162.9 |
| 160° | 153.1 | 157.3 | 163.7 | 173.4 | 178.6 | 173.4 | 163.7 | 157.3 | 153.1 | 157.3 | 163.7 |
| 162.5° | 155.7 | 159.8 | 164.6 | 172.5 | 176.1 | 172.5 | 164.6 | 159.8 | 155.7 | 159.8 | 164.6 |
| 165° | 160.5 | 162.6 | 165.9 | 170.2 | 173.3 | 170.2 | 165.9 | 162.6 | 160.5 | 162.6 | 165.9 |
| 167.5° | 163.3 | 165.2 | 166.9 | 169.1 | 171.0 | 169.1 | 166.9 | 165.2 | 163.3 | 165.2 | 166.9 |
| 170° | 165.9 | 166.9 | 166.9 | 169.1 | 170.1 | 169.1 | 166.9 | 166.9 | 165.9 | 166.9 | 166.9 |
| 172.5° | 166.7 | 168.6 | 167.8 | 168.2 | 169.3 | 168.2 | 167.8 | 168.6 | 166.7 | 168.6 | 167.8 |
| 175° | 169.0 | 170.1 | 169.0 | 168.0 | 166.9 | 168.0 | 169.0 | 170.1 | 169.0 | 170.1 | 169.0 |
| 177.5° | 169.0 | 169.9 | 169.0 | 169.0 | 168.2 | 169.0 | 169.0 | 169.9 | 169.0 | 169.9 | 169.0 |
| 180° | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 |

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CATALOG NUMBER: VLT-FA-025U-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 | 1356.7 |
| 2.5° | 1268.4 | 1267.3 | 1269.5 | 1288.3 | 1326.6 | 1361.2 |
| 5° | 1155.3 | 1159.4 | 1163.4 | 1195.3 | 1262.2 | 1354.0 |
| 7.5° | 1068.4 | 1062.5 | 1071.7 | 1123.5 | 1205.7 | 1337.4 |
| 10° | 1008.6 | 995.1 | 1008.6 | 1079.3 | 1175.1 | 1320.9 |
| 12.5° | 952.2 | 935.5 | 956.6 | 1034.0 | 1149.8 | 1298.8 |
| 15° | 879.6 | 895.7 | 886.3 | 973.0 | 1111.7 | 1260.1 |
| 17.5° | 896.8 | 978.3 | 914.0 | 920.0 | 1073.8 | 1220.4 |
| 20° | 937.7 | 1021.3 | 964.7 | 884.7 | 1049.4 | 1188.4 |
| 22.5° | 974.8 | 1037.9 | 986.6 | 854.9 | 1025.0 | 1159.6 |
| 25° | 1003.3 | 1057.2 | 1000.6 | 828.1 | 989.6 | 1111.1 |
| 27.5° | 1004.7 | 1012.2 | 1005.2 | 825.9 | 945.9 | 1062.8 |
| 30° | 986.1 | 953.7 | 983.4 | 828.1 | 914.8 | 1024.1 |
| 32.5° | 933.0 | 896.3 | 921.7 | 823.7 | 883.4 | 973.3 |
| 35° | 857.4 | 808.8 | 843.9 | 800.5 | 834.8 | 887.5 |
| 37.5° | 777.6 | 716.0 | 764.6 | 754.7 | 793.4 | 772.4 |
| 40° | 723.5 | 615.6 | 712.7 | 709.4 | 770.8 | 676.3 |
| 42.5° | 654.3 | 562.6 | 644.6 | 673.0 | 745.8 | 622.2 |
| 45° | 528.4 | 517.6 | 523.0 | 611.4 | 692.8 | 567.3 |
| 47.5° | 483.2 | 475.9 | 480.5 | 555.4 | 632.9 | 543.2 |
| 50° | 456.6 | 447.2 | 453.9 | 519.0 | 594.7 | 524.5 |
| 52.5° | 419.8 | 394.2 | 417.1 | 469.3 | 555.1 | 493.6 |
| 55° | 315.7 | 238.8 | 314.3 | 412.7 | 495.6 | 441.7 |
| 57.5° | 185.3 | 138.0 | 181.2 | 359.1 | 419.9 | 386.7 |
| 60° | 125.4 | 115.9 | 126.7 | 316.1 | 369.6 | 354.7 |
| 62.5° | 114.5 | 111.5 | 114.8 | 220.0 | 324.6 | 322.7 |
| 65° | 104.9 | 103.5 | 104.9 | 127.0 | 267.9 | 276.0 |
| 67.5° | 94.9 | 93.6 | 96.0 | 97.4 | 211.6 | 228.6 |
| 70° | 88.3 | 87.0 | 88.3 | 89.7 | 162.3 | 198.7 |
| 72.5° | 80.6 | 79.2 | 80.6 | 82.0 | 114.2 | 170.0 |
| 75° | 69.0 | 67.6 | 69.0 | 70.4 | 75.7 | 128.4 |
| 77.5° | 55.8 | 55.8 | 57.1 | 57.1 | 53.0 | 89.2 |
| 80° | 46.9 | 46.9 | 48.3 | 48.3 | 46.0 | 64.9 |
| 82.5° | 38.1 | 37.0 | 39.4 | 40.6 | 38.0 | 46.1 |
| 85° | 23.4 | 22.1 | 24.8 | 26.2 | 24.8 | 22.1 |
| 87.5° | 9.4 | 8.4 | 10.5 | 12.6 | 12.2 | 6.6 |
| 90° | 3.2 | 3.2 | 3.2 | 2.1 | 1.0 | 0.0 |
| 92.5° | 6.6 | 7.4 | 6.6 | 4.7 | 3.6 | 2.6 |
| 95° | 9.6 | 11.7 | 9.6 | 8.5 | 15.8 | 8.5 |
| 97.5° | 18.4 | 15.9 | 18.4 | 62.5 | 30.3 | 15.1 |
| 100° | 36.9 | 24.5 | 36.9 | 125.5 | 37.9 | 20.2 |
| 102.5° | 97.4 | 53.4 | 97.4 | 169.7 | 43.8 | 25.3 |
| 105° | 245.8 | 162.7 | 245.8 | 192.4 | 50.6 | 33.0 |
| 107.5° | 357.8 | 335.1 | 357.8 | 183.7 | 53.9 | 40.6 |
| 110° | 375.9 | 404.0 | 375.9 | 178.6 | 58.2 | 45.7 |



TEST NUMBER: P621593

CATALOG NUMBER: VLT-FA-025U-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|--------|--------|-------|--------|-------|--------|-------|
| 112.5° | 365.3 | 412.5 | 365.3 | 173.5 | 63.3 | 50.8 |
| 115° | 344.7 | 402.9 | 344.7 | 165.9 | 70.9 | 58.5 |
| 117.5° | 322.4 | 382.3 | 322.4 | 163.9 | 78.6 | 66.3 |
| 120° | 305.5 | 367.9 | 305.5 | 160.5 | 83.7 | 72.3 |
| 122.5° | 290.9 | 348.3 | 290.9 | 156.3 | 88.8 | 76.5 |
| 125° | 273.3 | 323.2 | 273.3 | 156.3 | 95.4 | 84.0 |
| 127.5° | 252.9 | 302.2 | 252.9 | 156.5 | 101.8 | 90.2 |
| 130° | 239.2 | 286.0 | 239.2 | 157.4 | 106.0 | 93.6 |
| 132.5° | 233.1 | 271.5 | 233.1 | 157.4 | 110.3 | 97.8 |
| 135° | 225.1 | 258.4 | 225.1 | 157.4 | 115.6 | 104.2 |
| 137.5° | 216.3 | 244.7 | 216.3 | 157.4 | 121.8 | 109.5 |
| 140° | 211.1 | 237.1 | 211.1 | 157.4 | 125.2 | 113.8 |
| 142.5° | 205.1 | 229.4 | 205.1 | 158.2 | 128.6 | 118.0 |
| 145° | 196.1 | 216.9 | 196.1 | 158.4 | 133.7 | 123.3 |
| 147.5° | 189.6 | 205.6 | 189.6 | 159.7 | 138.9 | 129.7 |
| 150° | 185.3 | 198.8 | 185.3 | 160.5 | 142.3 | 134.0 |
| 152.5° | 181.8 | 192.9 | 181.8 | 160.5 | 145.7 | 138.2 |
| 155° | 177.7 | 186.1 | 177.7 | 161.6 | 149.8 | 144.6 |
| 157.5° | 175.1 | 181.2 | 175.1 | 162.9 | 154.7 | 149.7 |
| 160° | 173.4 | 178.6 | 173.4 | 163.7 | 157.3 | 153.1 |
| 162.5° | 172.5 | 176.1 | 172.5 | 164.6 | 159.8 | 155.7 |
| 165° | 170.2 | 173.3 | 170.2 | 165.9 | 162.6 | 160.5 |
| 167.5° | 169.1 | 171.0 | 169.1 | 166.9 | 165.2 | 163.3 |
| 170° | 169.1 | 170.1 | 169.1 | 166.9 | 166.9 | 165.9 |
| 172.5° | 168.2 | 169.3 | 168.2 | 167.8 | 168.6 | 166.7 |
| 175° | 168.0 | 166.9 | 168.0 | 169.0 | 170.1 | 169.0 |
| 177.5° | 169.0 | 168.2 | 169.0 | 169.0 | 169.9 | 169.0 |
| 180° | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 | 169.0 |

(END OF REPORT)