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| **Table 1 Comparison of average number of fixations of participants with different levels in each area of interest(times)** |
|  | **Expert group** | **General group** | **Novice group** |  |
| **AOI** | ***M*** | ***SD*** | ***M*** | ***SD*** | ***M*** | ***SD*** | ***F*** | ***P value*** |
| Front | 1.30 | 0.47 | 1.50 | 0.51 | 1.80 | 0.52 | 5.014 | 0.010\* |
| Top | 1.20 | 0.41 | 1.35 | 0.49 | 1.45 | 0.51 | 1.421 | 0.250 |
| Bottom | 0.95 | 0.22 | 1.25 | 0.44 | 1.35 | 0.49 | 5.341 | 0.007\* |
| Top left | 1.05 | 0.22 | 1.20 | 0.41 | 1.25 | 0.44 | 1.563 | 0.218 |
| Bottom left | 0.90 | 0.30 | 0.95 | 0.22 | 1.00 | 0.00 | 1.036 | 0.361 |
| Top right | 0.05 | 0.24 | 0.70 | 0.47 | 0.95 | 0.22 | 40.336 | 0.000\* \* |
| Bottom right | 0.05 | 0.22 | 0.65 | 0.49 | 0.90 | 0.31 | 29.801 | 0.000\* \* |
| **Notes**.\**P*＜0.05\*\**P*＜0.01 |  |  |  |  |  |  |  |  |

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| Table 2.Comparison of saccadic amplitude among different exercise level participants.( °) |
| **Group** | ***M*** | ***SD*** | *F* | *P* ***value*** |
| expert | 3.53 | 0.30 | 4.660 | 0.13\* |
| general | 3.54 | 0.14 |  |  |
| novice | 3.72 | 0.19 |  |  |
| **Notes**. |  |  |  |  |
| \**P*＜0.05 |  |  |  |  |
| \*\**P*＜0.01 |  |  |  |  |

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| T**able 3 Comparison of fixation duration** **participants with different levels（MS）** |
|  | **expert** | **general** | **novice** |  |
| **AOI** | ***M*** | ***SD*** | ***M*** | ***SD*** | ***M*** | ***SD*** | ***F*** | ***P value*** |
| Front | 628.50 | 92.92 | 591.00 | 63.24 | 476.00 | 56.33 | 23.970 | 0.000\*\* |
| Top | 563.00 | 116.71 | 542.60 | 53.87 | 365.00 | 50.32 | 37.345 | 0.000\*\* |
| Bottom | 319.00 | 84.16 | 367.50 | 37.96 | 368.00 | 57.36 | 4.023 | 0.023\* |
| Top left | 336.75 | 32.05 | 364.30 | 55.19 | 360.50 | 59.60 | 1.754 | 0.182 |
| Bottom left | 225.25 | 85.43 | 230.00 | 64.81 | 250.00 | 49.84 | 0.740 | 0.482 |
| Top right | 15.00 | 67.08 | 148.50 | 100.75 | 208.50 | 55.66 | 27.665 | 0.000\*\* |
| Bottom right | 10.00 | 110.18 | 141.50 | 110.18 | 200.00 | 76.09 | 25.476 | 0.000\*\* |
| **Notes** |  |  |  |  |  |  |  |  |
| *\*P*＜0.05 |  |  |  |  |  |  |  |  |
| *\*\*P*＜0.01 |  |  |  |  |  |  |  |  |

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| Table 4 Comparison of pupil dilation of participants with different levels（MM） |
| **Group** | ***M*** | ***SD*** | ***F*** | ***P value*** |
| expert | 1 384.95 | 90.03 | 8.503 | 0.001\*\* |
| general | 1 333.60 | 57.59 |  |  |
| novice | 1 300.00 | 38.65 |  |  |
| **Notes** |  |  |  |  |
| *\*P*＜0.05 |  |  |  |  |
| *\*\*P*＜0.01 |  |  |  |  |