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| **Table 1. RP Subject Characteristics** | | | |  |  |
| *Age (years)* | *Gender* | *Axial Length OD (mm)* | *Axial Length OS (mm)* | *BCVA OU* | *Genetic Testing* |
| 22 | F | 25.41 | 25.42 | 20/20 | Unsolved |
| 31 | F | 22.88 | 22.74 | 20/30 | None |
| 56 | M | 23.12 | 23.07 | 20/20 | *SEMA4A* + *CRB1* |
| 40 | F | 25.09 | 25.09 | 20/20 | *PRPH2* |
| 24 | F | 23.39 | 23.46 | 20/20 | Unsolved |
| 57 | F | 25.01 | 25.06 | 20/20 | *RHO* |
| 35 | F | 22.23 | 22.16 | 20/20 | Unsolved |
| 34 | F | 25.36 | 27.42 | 20/20 | None |
| 38 | M | 23.84 | 23.65 | 20/20 | *USH2A* |
| 32 | F | 24.23 | 24.48 | 20/15 | *RHO* |

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| **Table 2. Cone Density** | | | |  |
| *Foveal distance (deg)* | *Average cone density [CI] (cones/mm2)* | *Average CoV [CI] (cones/mm2)* | *Repeatability [CI] (cones/mm2)* | *Percent Repeatability [CI](cones/mm2)* |
| *0* | 16,784 [+/- 533] | 566 [+/- 50] | 3,593 [+/- 533] | 15.42% [+/- 3.58] |
| *2* | 15,987 [+/- 256] | 597 [+/- 33] | 3,514 [+/- 256] | 16.38% [+/- 2.26] |
| *2.8* | 14,713 [+/- 230] | 530 [+/- 29] | 3,154 [+/- 230] | 15.91% [+/- 4.60] |
| *4* | 13,402 [+/- 201] | 522 [+/- 25] | 2,764 [+/- 201] | 15.71% [+/- 5.59] |
| *4.47* | 13,278 [+/- 134] | 526 [+/- 18] | 2,573 [+/- 134] | 14.74% [+/- 4.28] |
| 5.66 | 12,895 [+/- 181] | 547 [+/- 25] | 2,464 [+/- 181] | 15.66% [+/- 3.61] |

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| **Table 3. Summary of statistics** | | | |
| *Subject Group* | *Average Cone Spacing (mm)* | *Average SD of Cone Spacing (mm)* | *Average Cone Similarity % [SD]* |
| Normals Good | 5.73 | 1.02 | 79.49 [7.21] |
| Normals Poor | 5.67 | 1.45 | 41.07 [3.97] |
| RP Good | 5.27 | 0.87 | 75.15 [9.98] |
| RP Poor | 5.64 | 1.52 | 39.32 [11.18] |

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| **Table 4. T-test with Bonferroni correction** | |
| *T-Test* | *P-Value* |
| NG vs NP | < 0.01 |
| NG vs RPG | 0.06 |
| NG vs RPP | < 0.01 |
| NP vs RPG | < 0.01 |
| NP vs RPP | 0.52 |
| RPG vs RPP | < 0.01 |