

# Table of OD Values for Filter Number A51W3

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COLOR: green

TRANSMISSION: VLT 15

MARKINGS: OD 4+ @ 200-400nm OD 7+ @ 820-1800nm OD 5+ @ 9000-11100nm U10L3R5KTKZ87 W3



NOTE: OD values below are average minimum values of representative lots of filter material according to manufacturing specifications. They are not guaranteed minimums for every lens. Minimum protection values will be specified on each product.

| nm  | OD | nm  | OD | nm  | OD | nm  | OD | nm  | OD | nm  | OD   | nm  | OD   | nm  | OD   | nm  | OD   |
|-----|----|-----|----|-----|----|-----|----|-----|----|-----|------|-----|------|-----|------|-----|------|
| 200 | 7+ | 255 | 7+ | 310 | 7+ | 365 | 7+ | 420 | 7+ | 475 | 6.98 | 530 | 0.44 | 585 | 0.94 | 640 | 1.75 |
| 201 | 7+ | 256 | 7+ | 311 | 7+ | 366 | 7+ | 421 | 7+ | 476 | 6.81 | 531 | 0.44 | 586 | 0.95 | 641 | 1.77 |
| 202 | 7+ | 257 | 7+ | 312 | 7+ | 367 | 7+ | 422 | 7+ | 477 | 6.63 | 532 | 0.44 | 587 | 0.96 | 642 | 1.78 |
| 203 | 7+ | 258 | 7+ | 313 | 7+ | 368 | 7+ | 423 | 7+ | 478 | 6.43 | 533 | 0.45 | 588 | 0.98 | 643 | 1.79 |
| 204 | 7+ | 259 | 7+ | 314 | 7+ | 369 | 7+ | 424 | 7+ | 479 | 6.23 | 534 | 0.45 | 589 | 0.99 | 644 | 1.81 |
| 205 | 7+ | 260 | 7+ | 315 | 7+ | 370 | 7+ | 425 | 7+ | 480 | 6.01 | 535 | 0.45 | 590 | 1.00 | 645 | 1.82 |
| 206 | 7+ | 261 | 7+ | 316 | 7+ | 371 | 7+ | 426 | 7+ | 481 | 5.79 | 536 | 0.46 | 591 | 1.02 | 646 | 1.84 |
| 207 | 7+ | 262 | 7+ | 317 | 7+ | 372 | 7+ | 427 | 7+ | 482 | 5.55 | 537 | 0.46 | 592 | 1.03 | 647 | 1.85 |
| 208 | 7+ | 263 | 7+ | 318 | 7+ | 373 | 7+ | 428 | 7+ | 483 | 5.31 | 538 | 0.47 | 593 | 1.04 | 648 | 1.87 |
| 209 | 7+ | 264 | 7+ | 319 | 7+ | 374 | 7+ | 429 | 7+ | 484 | 5.07 | 539 | 0.47 | 594 | 1.06 | 649 | 1.88 |
| 210 | 7+ | 265 | 7+ | 320 | 7+ | 375 | 7+ | 430 | 7+ | 485 | 4.82 | 540 | 0.48 | 595 | 1.07 | 650 | 1.89 |
| 211 | 7+ | 266 | 7+ | 321 | 7+ | 376 | 7+ | 431 | 7+ | 486 | 4.56 | 541 | 0.49 | 596 | 1.09 | 651 | 1.91 |
| 212 | 7+ | 267 | 7+ | 322 | 7+ | 377 | 7+ | 432 | 7+ | 487 | 4.31 | 542 | 0.49 | 597 | 1.10 | 652 | 1.92 |
| 213 | 7+ | 268 | 7+ | 323 | 7+ | 378 | 7+ | 433 | 7+ | 488 | 4.06 | 543 | 0.50 | 598 | 1.11 | 653 | 1.94 |
| 214 | 7+ | 269 | 7+ | 324 | 7+ | 379 | 7+ | 434 | 7+ | 489 | 3.81 | 544 | 0.51 | 599 | 1.13 | 654 | 1.95 |
| 215 | 7+ | 270 | 7+ | 325 | 7+ | 380 | 7+ | 435 | 7+ | 490 | 3.57 | 545 | 0.51 | 600 | 1.14 | 655 | 1.96 |
| 216 | 7+ | 271 | 7+ | 326 | 7+ | 381 | 7+ | 436 | 7+ | 491 | 3.33 | 546 | 0.52 | 601 | 1.16 | 656 | 1.98 |
| 217 | 7+ | 272 | 7+ | 327 | 7+ | 382 | 7+ | 437 | 7+ | 492 | 3.10 | 547 | 0.53 | 602 | 1.17 | 657 | 1.99 |
| 218 | 7+ | 273 | 7+ | 328 | 7+ | 383 | 7+ | 438 | 7+ | 493 | 2.88 | 548 | 0.54 | 603 | 1.19 | 658 | 2.01 |
| 219 | 7+ | 274 | 7+ | 329 | 7+ | 384 | 7+ | 439 | 7+ | 494 | 2.67 | 549 | 0.55 | 604 | 1.20 | 659 | 2.02 |
| 220 | 7+ | 275 | 7+ | 330 | 7+ | 385 | 7+ | 440 | 7+ | 495 | 2.47 | 550 | 0.56 | 605 | 1.22 | 660 | 2.03 |
| 221 | 7+ | 276 | 7+ | 331 | 7+ | 386 | 7+ | 441 | 7+ | 496 | 2.28 | 551 | 0.56 | 606 | 1.23 | 661 | 2.05 |
| 222 | 7+ | 277 | 7+ | 332 | 7+ | 387 | 7+ | 442 | 7+ | 497 | 2.10 | 552 | 0.57 | 607 | 1.25 | 662 | 2.06 |
| 223 | 7+ | 278 | 7+ | 333 | 7+ | 388 | 7+ | 443 | 7+ | 498 | 1.94 | 553 | 0.58 | 608 | 1.26 | 663 | 2.08 |
| 224 | 7+ | 279 | 7+ | 334 | 7+ | 389 | 7+ | 444 | 7+ | 499 | 1.78 | 554 | 0.59 | 609 | 1.28 | 664 | 2.09 |
| 225 | 7+ | 280 | 7+ | 335 | 7+ | 390 | 7+ | 445 | 7+ | 500 | 1.64 | 555 | 0.60 | 610 | 1.29 | 665 | 2.10 |
| 226 | 7+ | 281 | 7+ | 336 | 7+ | 391 | 7+ | 446 | 7+ | 501 | 1.51 | 556 | 0.61 | 611 | 1.31 | 666 | 2.12 |
| 227 | 7+ | 282 | 7+ | 337 | 7+ | 392 | 7+ | 447 | 7+ | 502 | 1.39 | 557 | 0.62 | 612 | 1.32 | 667 | 2.13 |
| 228 | 7+ | 283 | 7+ | 338 | 7+ | 393 | 7+ | 448 | 7+ | 503 | 1.28 | 558 | 0.63 | 613 | 1.34 | 668 | 2.15 |
| 229 | 7+ | 284 | 7+ | 339 | 7+ | 394 | 7+ | 449 | 7+ | 504 | 1.18 | 559 | 0.64 | 614 | 1.36 | 669 | 2.16 |
| 230 | 7+ | 285 | 7+ | 340 | 7+ | 395 | 7+ | 450 | 7+ | 505 | 1.09 | 560 | 0.65 | 615 | 1.37 | 670 | 2.18 |
| 231 | 7+ | 286 | 7+ | 341 | 7+ | 396 | 7+ | 451 | 7+ | 506 | 1.00 | 561 | 0.66 | 616 | 1.39 | 671 | 2.19 |
| 232 | 7+ | 287 | 7+ | 342 | 7+ | 397 | 7+ | 452 | 7+ | 507 | 0.93 | 562 | 0.67 | 617 | 1.40 | 672 | 2.21 |
| 233 | 7+ | 288 | 7+ | 343 | 7+ | 398 | 7+ | 453 | 7+ | 508 | 0.86 | 563 | 0.68 | 618 | 1.42 | 673 | 2.22 |
| 234 | 7+ | 289 | 7+ | 344 | 7+ | 399 | 7+ | 454 | 7+ | 509 | 0.80 | 564 | 0.69 | 619 | 1.43 | 674 | 2.24 |
| 235 | 7+ | 290 | 7+ | 345 | 7+ | 400 | 7+ | 455 | 7+ | 510 | 0.75 | 565 | 0.70 | 620 | 1.45 | 675 | 2.25 |
| 236 | 7+ | 291 | 7+ | 346 | 7+ | 401 | 7+ | 456 | 7+ | 511 | 0.70 | 566 | 0.71 | 621 | 1.46 | 676 | 2.27 |
| 237 | 7+ | 292 | 7+ | 347 | 7+ | 402 | 7+ | 457 | 7+ | 512 | 0.66 | 567 | 0.72 | 622 | 1.48 | 677 | 2.28 |
| 238 | 7+ | 293 | 7+ | 348 | 7+ | 403 | 7+ | 458 | 7+ | 513 | 0.62 | 568 | 0.73 | 623 | 1.50 | 678 | 2.30 |
| 239 | 7+ | 294 | 7+ | 349 | 7+ | 404 | 7+ | 459 | 7+ | 514 | 0.59 | 569 | 0.74 | 624 | 1.51 | 679 | 2.32 |
| 240 | 7+ | 295 | 7+ | 350 | 7+ | 405 | 7+ | 460 | 7+ | 515 | 0.56 | 570 | 0.76 | 625 | 1.53 | 680 | 2.33 |
| 241 | 7+ | 296 | 7+ | 351 | 7+ | 406 | 7+ | 461 | 7+ | 516 | 0.54 | 571 | 0.77 | 626 | 1.54 | 681 | 2.35 |
| 242 | 7+ | 297 | 7+ | 352 | 7+ | 407 | 7+ | 462 | 7+ | 517 | 0.52 | 572 | 0.78 | 627 | 1.56 | 682 | 2.37 |
| 243 | 7+ | 298 | 7+ | 353 | 7+ | 408 | 7+ | 463 | 7+ | 518 | 0.50 | 573 | 0.79 | 628 | 1.57 | 683 | 2.38 |
| 244 | 7+ | 299 | 7+ | 354 | 7+ | 409 | 7+ | 464 | 7+ | 519 | 0.48 | 574 | 0.80 | 629 | 1.59 | 684 | 2.40 |
| 245 | 7+ | 300 | 7+ | 355 | 7+ | 410 | 7+ | 465 | 7+ | 520 | 0.47 | 575 | 0.81 | 630 | 1.60 | 685 | 2.42 |
| 246 | 7+ | 301 | 7+ | 356 | 7+ | 411 | 7+ | 466 | 7+ | 521 | 0.46 | 576 | 0.83 | 631 | 1.62 | 686 | 2.44 |
| 247 | 7+ | 302 | 7+ | 357 | 7+ | 412 | 7+ | 467 | 7+ | 522 | 0.45 | 577 | 0.84 | 632 | 1.63 | 687 | 2.45 |
| 248 | 7+ | 303 | 7+ | 358 | 7+ | 413 | 7+ | 468 | 7+ | 523 | 0.45 | 578 | 0.85 | 633 | 1.65 | 688 | 2.47 |
| 249 | 7+ | 304 | 7+ | 359 | 7+ | 414 | 7+ | 469 | 7+ | 524 | 0.44 | 579 | 0.86 | 634 | 1.66 | 689 | 2.49 |
| 250 | 7+ | 305 | 7+ | 360 | 7+ | 415 | 7+ | 470 | 7+ | 525 | 0.44 | 580 | 0.87 | 635 | 1.68 | 690 | 2.51 |
| 251 | 7+ | 306 | 7+ | 361 | 7+ | 416 | 7+ | 471 | 7+ | 526 | 0.44 | 581 | 0.89 | 636 | 1.69 | 691 | 2.53 |
| 252 | 7+ | 307 | 7+ | 362 | 7+ | 417 | 7+ | 472 | 7+ | 527 | 0.44 | 582 | 0.90 | 637 | 1.71 | 692 | 2.55 |
| 253 | 7+ | 308 | 7+ | 363 | 7+ | 418 | 7+ | 473 | 7+ | 528 | 0.44 | 583 | 0.91 | 638 | 1.72 | 693 | 2.57 |
| 254 | 7+ | 309 | 7+ | 364 | 7+ | 419 | 7+ | 474 | 7+ | 529 | 0.44 | 584 | 0.92 | 639 | 1.74 | 694 | 2.59 |

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COLOR: green

TRANSMISSION: VLT 15

MARKINGS: OD 4+ @ 200-400nm OD 7+ @ 820-1800nm OD 5+ @ 9000-11100nm U10L3R5KTKZ87 W3



NOTE: OD values below are average minimum values of representative lots of filter material according to manufacturing specifications. They are not guaranteed minimums for every lens. Minimum protection values will be specified on each product.

| nm  | OD   | nm  | OD | nm  | OD | nm  | OD | nm   | OD | nm   | OD | nm   | OD | nm   | OD | nm   | OD   |
|-----|------|-----|----|-----|----|-----|----|------|----|------|----|------|----|------|----|------|------|
| 750 | 4.24 | 805 | 7+ | 860 | 7+ | 915 | 7+ | 970  | 7+ | 1025 | 7+ | 1080 | 7+ | 1135 | 7+ | 1190 | 7+   |
| 751 | 4.28 | 806 | 7+ | 861 | 7+ | 916 | 7+ | 971  | 7+ | 1026 | 7+ | 1081 | 7+ | 1136 | 7+ | 1191 | 7+   |
| 752 | 4.33 | 807 | 7+ | 862 | 7+ | 917 | 7+ | 972  | 7+ | 1027 | 7+ | 1082 | 7+ | 1137 | 7+ | 1192 | 7+   |
| 753 | 4.37 | 808 | 7+ | 863 | 7+ | 918 | 7+ | 973  | 7+ | 1028 | 7+ | 1083 | 7+ | 1138 | 7+ | 1193 | 7+   |
| 754 | 4.41 | 809 | 7+ | 864 | 7+ | 919 | 7+ | 974  | 7+ | 1029 | 7+ | 1084 | 7+ | 1139 | 7+ | 1194 | 7+   |
| 755 | 4.45 | 810 | 7+ | 865 | 7+ | 920 | 7+ | 975  | 7+ | 1030 | 7+ | 1085 | 7+ | 1140 | 7+ | 1195 | 7+   |
| 756 | 4.49 | 811 | 7+ | 866 | 7+ | 921 | 7+ | 976  | 7+ | 1031 | 7+ | 1086 | 7+ | 1141 | 7+ | 1196 | 7+   |
| 757 | 4.54 | 812 | 7+ | 867 | 7+ | 922 | 7+ | 977  | 7+ | 1032 | 7+ | 1087 | 7+ | 1142 | 7+ | 1197 | 7+   |
| 758 | 4.58 | 813 | 7+ | 868 | 7+ | 923 | 7+ | 978  | 7+ | 1033 | 7+ | 1088 | 7+ | 1143 | 7+ | 1198 | 7+   |
| 759 | 4.62 | 814 | 7+ | 869 | 7+ | 924 | 7+ | 979  | 7+ | 1034 | 7+ | 1089 | 7+ | 1144 | 7+ | 1199 | 7+   |
| 760 | 4.67 | 815 | 7+ | 870 | 7+ | 925 | 7+ | 980  | 7+ | 1035 | 7+ | 1090 | 7+ | 1145 | 7+ | 1200 | 7+   |
| 761 | 4.71 | 816 | 7+ | 871 | 7+ | 926 | 7+ | 981  | 7+ | 1036 | 7+ | 1091 | 7+ | 1146 | 7+ | 1250 | 7+   |
| 762 | 4.76 | 817 | 7+ | 872 | 7+ | 927 | 7+ | 982  | 7+ | 1037 | 7+ | 1092 | 7+ | 1147 | 7+ | 1300 | 7+   |
| 763 | 4.80 | 818 | 7+ | 873 | 7+ | 928 | 7+ | 983  | 7+ | 1038 | 7+ | 1093 | 7+ | 1148 | 7+ | 1350 | 7+   |
| 764 | 4.85 | 819 | 7+ | 874 | 7+ | 929 | 7+ | 984  | 7+ | 1039 | 7+ | 1094 | 7+ | 1149 | 7+ | 1400 | 7+   |
| 765 | 4.90 | 820 | 7+ | 875 | 7+ | 930 | 7+ | 985  | 7+ | 1040 | 7+ | 1095 | 7+ | 1150 | 7+ | 1450 | 7+   |
| 766 | 4.94 | 821 | 7+ | 876 | 7+ | 931 | 7+ | 986  | 7+ | 1041 | 7+ | 1096 | 7+ | 1151 | 7+ | 1500 | 7+   |
| 767 | 4.99 | 822 | 7+ | 877 | 7+ | 932 | 7+ | 987  | 7+ | 1042 | 7+ | 1097 | 7+ | 1152 | 7+ | 1550 | 7+   |
| 768 | 5.04 | 823 | 7+ | 878 | 7+ | 933 | 7+ | 988  | 7+ | 1043 | 7+ | 1098 | 7+ | 1153 | 7+ | 1600 | 7+   |
| 769 | 5.09 | 824 | 7+ | 879 | 7+ | 934 | 7+ | 989  | 7+ | 1044 | 7+ | 1099 | 7+ | 1154 | 7+ | 1650 | 7+   |
| 770 | 5.14 | 825 | 7+ | 880 | 7+ | 935 | 7+ | 990  | 7+ | 1045 | 7+ | 1100 | 7+ | 1155 | 7+ | 1700 | 7+   |
| 771 | 5.19 | 826 | 7+ | 881 | 7+ | 936 | 7+ | 991  | 7+ | 1046 | 7+ | 1101 | 7+ | 1156 | 7+ | 1750 | 7+   |
| 772 | 5.24 | 827 | 7+ | 882 | 7+ | 937 | 7+ | 992  | 7+ | 1047 | 7+ | 1102 | 7+ | 1157 | 7+ | 1800 | 7.00 |
| 773 | 5.28 | 828 | 7+ | 883 | 7+ | 938 | 7+ | 993  | 7+ | 1048 | 7+ | 1103 | 7+ | 1158 | 7+ | 1850 | 5.40 |
| 774 | 5.34 | 829 | 7+ | 884 | 7+ | 939 | 7+ | 994  | 7+ | 1049 | 7+ | 1104 | 7+ | 1159 | 7+ | 1900 | 4.23 |
| 775 | 5.39 | 830 | 7+ | 885 | 7+ | 940 | 7+ | 995  | 7+ | 1050 | 7+ | 1105 | 7+ | 1160 | 7+ | 1950 | 3.25 |
| 776 | 5.44 | 831 | 7+ | 886 | 7+ | 941 | 7+ | 996  | 7+ | 1051 | 7+ | 1106 | 7+ | 1161 | 7+ | 2000 | 2.38 |
| 777 | 5.49 | 832 | 7+ | 887 | 7+ | 942 | 7+ | 997  | 7+ | 1052 | 7+ | 1107 | 7+ | 1162 | 7+ | 2050 | 1.85 |
| 778 | 5.54 | 833 | 7+ | 888 | 7+ | 943 | 7+ | 998  | 7+ | 1053 | 7+ | 1108 | 7+ | 1163 | 7+ | 2100 | 1.67 |
| 779 | 5.60 | 834 | 7+ | 889 | 7+ | 944 | 7+ | 999  | 7+ | 1054 | 7+ | 1109 | 7+ | 1164 | 7+ | 2150 | 1.55 |
| 780 | 5.65 | 835 | 7+ | 890 | 7+ | 945 | 7+ | 1000 | 7+ | 1055 | 7+ | 1110 | 7+ | 1165 | 7+ | 2200 | 1.62 |
| 781 | 5.70 | 836 | 7+ | 891 | 7+ | 946 | 7+ | 1001 | 7+ | 1056 | 7+ | 1111 | 7+ | 1166 | 7+ | 2250 | 7+   |
| 782 | 5.76 | 837 | 7+ | 892 | 7+ | 947 | 7+ | 1002 | 7+ | 1057 | 7+ | 1112 | 7+ | 1167 | 7+ | 2300 | 4.68 |
| 783 | 5.81 | 838 | 7+ | 893 | 7+ | 948 | 7+ | 1003 | 7+ | 1058 | 7+ | 1113 | 7+ | 1168 | 7+ | 2350 | 3.67 |
| 784 | 5.86 | 839 | 7+ | 894 | 7+ | 949 | 7+ | 1004 | 7+ | 1059 | 7+ | 1114 | 7+ | 1169 | 7+ | 2400 | 4.33 |
| 785 | 5.92 | 840 | 7+ | 895 | 7+ | 950 | 7+ | 1005 | 7+ | 1060 | 7+ | 1115 | 7+ | 1170 | 7+ | 2450 | 3.20 |
| 786 | 5.97 | 841 | 7+ | 896 | 7+ | 951 | 7+ | 1006 | 7+ | 1061 | 7+ | 1116 | 7+ | 1171 | 7+ | 2500 | 2.38 |
| 787 | 6.03 | 842 | 7+ | 897 | 7+ | 952 | 7+ | 1007 | 7+ | 1062 | 7+ | 1117 | 7+ | 1172 | 7+ | 2550 | 1.74 |
| 788 | 6.09 | 843 | 7+ | 898 | 7+ | 953 | 7+ | 1008 | 7+ | 1063 | 7+ | 1118 | 7+ | 1173 | 7+ | 2600 | 1.35 |
| 789 | 6.15 | 844 | 7+ | 899 | 7+ | 954 | 7+ | 1009 | 7+ | 1064 | 7+ | 1119 | 7+ | 1174 | 7+ | 2650 | 1.07 |
| 790 | 6.20 | 845 | 7+ | 900 | 7+ | 955 | 7+ | 1010 | 7+ | 1065 | 7+ | 1120 | 7+ | 1175 | 7+ | 2700 | 1.02 |
| 791 | 6.26 | 846 | 7+ | 901 | 7+ | 956 | 7+ | 1011 | 7+ | 1066 | 7+ | 1121 | 7+ | 1176 | 7+ | 2750 | 3.84 |
| 792 | 6.32 | 847 | 7+ | 902 | 7+ | 957 | 7+ | 1012 | 7+ | 1067 | 7+ | 1122 | 7+ | 1177 | 7+ | 2800 | 2.79 |
| 793 | 6.37 | 848 | 7+ | 903 | 7+ | 958 | 7+ | 1013 | 7+ | 1068 | 7+ | 1123 | 7+ | 1178 | 7+ | 2850 | 2.13 |
| 794 | 6.43 | 849 | 7+ | 904 | 7+ | 959 | 7+ | 1014 | 7+ | 1069 | 7+ | 1124 | 7+ | 1179 | 7+ | 2900 | 6.62 |
| 795 | 6.49 | 850 | 7+ | 905 | 7+ | 960 | 7+ | 1015 | 7+ | 1070 | 7+ | 1125 | 7+ | 1180 | 7+ | 2950 | 2.10 |
| 796 | 6.55 | 851 | 7+ | 906 | 7+ | 961 | 7+ | 1016 | 7+ | 1071 | 7+ | 1126 | 7+ | 1181 | 7+ | 3000 | 2.18 |
| 797 | 6.61 | 852 | 7+ | 907 | 7+ | 962 | 7+ | 1017 | 7+ | 1072 | 7+ | 1127 | 7+ | 1182 | 7+ | 3050 | 2.29 |
| 798 | 6.67 | 853 | 7+ | 908 | 7+ | 963 | 7+ | 1018 | 7+ | 1073 | 7+ | 1128 | 7+ | 1183 | 7+ | 3100 | 2.92 |
| 799 | 6.74 | 854 | 7+ | 909 | 7+ | 964 | 7+ | 1019 | 7+ | 1074 | 7+ | 1129 | 7+ | 1184 | 7+ | 3150 | 4.14 |
| 800 | 6.80 | 855 | 7+ | 910 | 7+ | 965 | 7+ | 1020 | 7+ | 1075 | 7+ | 1130 | 7+ | 1185 | 7+ | 3200 | 5.10 |
| 801 | 6.86 | 856 | 7+ | 911 | 7+ | 966 | 7+ | 1021 | 7+ | 1076 | 7+ | 1131 | 7+ | 1186 | 7+ | 3250 | 7+   |
| 802 | 6.92 | 857 | 7+ | 912 | 7+ | 967 | 7+ | 1022 | 7+ | 1077 | 7+ | 1132 | 7+ | 1187 | 7+ | 3300 | 7+   |
| 803 | 6.98 | 858 | 7+ | 913 | 7+ | 968 | 7+ | 1023 | 7+ | 1078 | 7+ | 1133 | 7+ | 1188 | 7+ | 3350 | -    |
| 804 | 7.04 | 859 | 7+ | 914 | 7+ | 969 | 7+ | 1024 | 7+ | 1079 | 7+ | 1134 | 7+ | 1189 | 7+ | 3400 | -    |