

AM-91-481

The crystal structure of B-free kornerupine: Conditions favoring the incorporation of variable amounts of B through ${}^4\text{B};\text{io}{}^4\text{Si}$ substitution in kornerupine

Rolf Klaska, Edward S. Grew

For deposit: Table 3

American Mineralogist, 76, 11-12, 1824-1835.

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR B-FREE KORNERUPINE 9365, C MCM

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|---|---|------|-------|----|---|---|------|-------|----|---|---|------|-------|----|----|---|------|------|----|----|---|------|------|
| 2 | 0 | 0 | 602 | -575 | 1 | 3 | 0 | 175 | -189 | 21 | 5 | 0 | 442 | -441 | 16 | 8 | 0 | 286 | -283 | 15 | 11 | 0 | 539 | 535 |
| 4 | 0 | 0 | 903 | -897 | 3 | 3 | 0 | 310 | -287 | 23 | 5 | 0 | 78 | -69 | 18 | 8 | 0 | 72 | 14 | 17 | 11 | 0 | 398 | -403 |
| 6 | 0 | 0 | 660 | 649 | 5 | 3 | 0 | 4521 | 4838 | 25 | 5 | 0 | 54 | 27 | 20 | 8 | 0 | 248 | 235 | 19 | 11 | 0 | 202 | 206 |
| 8 | 0 | 0 | 1234 | 1212 | 7 | 3 | 0 | 536 | -503 | 0 | 6 | 0 | 818 | 962 | 22 | 8 | 0 | 234 | 239 | 21 | 11 | 0 | 111 | -116 |
| 10 | 0 | 0 | 3724 | 3828 | 9 | 3 | 0 | 614 | -597 | 2 | 6 | 0 | 126 | -135 | 24 | 8 | 0 | 52 | 70 | 0 | 12 | 0 | 1389 | 1395 |
| 12 | 0 | 0 | 1425 | 1462 | 11 | 3 | 0 | 614 | 593 | 4 | 6 | 0 | 38 | -50 | 1 | 9 | 0 | 174 | 158 | 2 | 12 | 0 | 52 | -53 |
| 16 | 0 | 0 | 536 | 517 | 13 | 3 | 0 | 251 | 254 | 6 | 6 | 0 | 287 | -287 | 3 | 9 | 0 | 193 | -181 | 4 | 12 | 0 | 456 | 433 |
| 20 | 0 | 0 | 521 | 514 | 15 | 3 | 0 | 973 | 967 | 8 | 6 | 0 | 529 | -530 | 5 | 9 | 0 | 1876 | 1874 | 6 | 12 | 0 | 511 | 501 |
| 22 | 0 | 0 | 1693 | 1734 | 17 | 3 | 0 | 995 | 972 | 10 | 6 | 0 | 1552 | 1547 | 7 | 9 | 0 | 853 | 862 | 8 | 12 | 0 | 153 | -141 |
| 24 | 0 | 0 | 254 | -276 | 19 | 3 | 0 | 322 | -324 | 12 | 6 | 0 | 103 | 70 | 9 | 9 | 0 | 187 | 188 | 10 | 12 | 0 | 790 | 754 |
| 1 | 1 | 0 | 748 | -750 | 21 | 3 | 0 | 110 | -109 | 14 | 6 | 0 | 295 | -290 | 11 | 9 | 0 | 604 | -574 | 12 | 12 | 0 | 470 | 470 |
| 3 | 1 | 0 | 228 | -241 | 23 | 3 | 0 | 363 | 366 | 16 | 6 | 0 | 312 | -312 | 13 | 9 | 0 | 216 | 194 | 14 | 12 | 0 | 150 | 156 |
| 5 | 1 | 0 | 555 | -531 | 25 | 3 | 0 | 31 | -32 | 18 | 6 | 0 | 393 | 387 | 15 | 9 | 0 | 839 | 845 | 16 | 12 | 0 | 111 | 56 |
| 7 | 1 | 0 | 413 | 381 | 0 | 4 | 0 | 1933 | -1931 | 20 | 6 | 0 | 29 | 59 | 17 | 9 | 0 | 588 | 588 | 18 | 12 | 0 | 48 | 73 |
| 9 | 1 | 0 | 1333 | 1324 | 2 | 4 | 0 | 629 | -627 | 22 | 6 | 0 | 303 | 305 | 19 | 9 | 0 | 47 | 50 | 20 | 12 | 0 | 223 | 231 |
| 11 | 1 | 0 | 2948 | -2969 | 4 | 4 | 0 | 832 | 832 | 24 | 6 | 0 | 46 | -15 | 21 | 9 | 0 | 115 | -138 | 1 | 13 | 0 | 586 | -598 |
| 13 | 1 | 0 | 593 | 608 | 6 | 4 | 0 | 3724 | -3754 | 1 | 7 | 0 | 543 | 518 | 23 | 9 | 0 | 116 | 143 | 3 | 13 | 0 | 214 | -220 |
| 15 | 1 | 0 | 213 | 218 | 8 | 4 | 0 | 280 | -291 | 3 | 7 | 0 | 281 | -315 | 0 | 10 | 0 | 260 | -260 | 5 | 13 | 0 | 237 | -224 |
| 17 | 1 | 0 | 399 | -386 | 10 | 4 | 0 | 485 | -469 | 5 | 7 | 0 | 1326 | -1307 | 2 | 10 | 0 | 201 | -203 | 7 | 13 | 0 | 413 | -411 |
| 19 | 1 | 0 | 403 | 409 | 12 | 4 | 0 | 134 | -141 | 7 | 7 | 0 | 502 | -511 | 4 | 10 | 0 | 227 | 213 | 9 | 13 | 0 | 162 | 142 |
| 21 | 1 | 0 | 804 | -795 | 14 | 4 | 0 | 448 | 436 | 9 | 7 | 0 | 1009 | 992 | 6 | 10 | 0 | 260 | 295 | 11 | 13 | 0 | 860 | -832 |
| 23 | 1 | 0 | 63 | 8 | 16 | 4 | 0 | 2052 | -2005 | 11 | 7 | 0 | 685 | -605 | 8 | 10 | 0 | 181 | -191 | 13 | 13 | 0 | 199 | -187 |
| 25 | 1 | 0 | 31 | -1 | 18 | 4 | 0 | 64 | 36 | 13 | 7 | 0 | 169 | -171 | 10 | 10 | 0 | 446 | -443 | 15 | 13 | 0 | 243 | -240 |
| 0 | 2 | 0 | 1178 | 1234 | 20 | 4 | 0 | 104 | -65 | 15 | 7 | 0 | 290 | -294 | 12 | 10 | 0 | 348 | -348 | 19 | 13 | 0 | 97 | 140 |
| 2 | 2 | 0 | 316 | -326 | 22 | 4 | 0 | 504 | -506 | 17 | 7 | 0 | 458 | -451 | 14 | 10 | 0 | 818 | 820 | 21 | 13 | 0 | 398 | -405 |
| 4 | 2 | 0 | 504 | 507 | 24 | 4 | 0 | 170 | 196 | 19 | 7 | 0 | 509 | 524 | 16 | 10 | 0 | 367 | -354 | 0 | 14 | 0 | 1199 | 1161 |
| 6 | 2 | 0 | 204 | 133 | 1 | 5 | 0 | 1368 | -1368 | 21 | 7 | 0 | 533 | -538 | 18 | 10 | 0 | 189 | -184 | 2 | 14 | 0 | 315 | 316 |
| 8 | 2 | 0 | 269 | 265 | 3 | 5 | 0 | 163 | 155 | 23 | 7 | 0 | 90 | 78 | 20 | 10 | 0 | 117 | -132 | 4 | 14 | 0 | 175 | -167 |
| 10 | 2 | 0 | 533 | 531 | 5 | 5 | 0 | 3012 | 2958 | 0 | 8 | 0 | 2574 | 2558 | 22 | 10 | 0 | 67 | -62 | 6 | 14 | 0 | 563 | -545 |
| 12 | 2 | 0 | 523 | -527 | 7 | 5 | 0 | 931 | -921 | 2 | 8 | 0 | 100 | -112 | 1 | 11 | 0 | 187 | -159 | 8 | 14 | 0 | 200 | 195 |
| 14 | 2 | 0 | 811 | 813 | 9 | 5 | 0 | 162 | -146 | 4 | 8 | 0 | 589 | -595 | 3 | 11 | 0 | 249 | 240 | 10 | 14 | 0 | 1023 | 1009 |
| 16 | 2 | 0 | 811 | -791 | 11 | 5 | 0 | 387 | -396 | 6 | 8 | 0 | 621 | -641 | 5 | 11 | 0 | 647 | 610 | 12 | 14 | 0 | 90 | 105 |
| 18 | 2 | 0 | 320 | 322 | 13 | 5 | 0 | 25 | -53 | 8 | 8 | 0 | 544 | 542 | 7 | 11 | 0 | 24 | 51 | 14 | 14 | 0 | 29 | 15 |
| 20 | 2 | 0 | 27 | -3 | 15 | 5 | 0 | 214 | 200 | 10 | 8 | 0 | 1058 | 1022 | 9 | 11 | 0 | 104 | -85 | 16 | 14 | 0 | 276 | -286 |
| 22 | 2 | 0 | 128 | 124 | 17 | 5 | 0 | 479 | 465 | 12 | 8 | 0 | 24 | -40 | 11 | 11 | 0 | 335 | -325 | 18 | 14 | 0 | 169 | 160 |
| 24 | 2 | 0 | 30 | 24 | 19 | 5 | 0 | 100 | 90 | 14 | 8 | 0 | 40 | 51 | 13 | 11 | 0 | 311 | 321 | 1 | 15 | 0 | 367 | 360 |

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR B-FREE KORNERUPINE 9365, C MCM

PAGE 2

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|----|---|------|------|----|----|---|------|------|----|---|---|------|-------|----|---|---|------|-------|----|----|---|------|-------|
| 3 | 15 | 0 | 205 | -201 | 5 | 19 | 0 | 262 | 268 | 12 | 2 | 1 | 762 | 760 | 7 | 5 | 1 | 811 | 807 | 2 | 8 | 1 | 214 | 202 |
| 5 | 15 | 0 | 481 | 452 | 7 | 19 | 0 | 141 | -116 | 14 | 2 | 1 | 89 | -79 | 9 | 5 | 1 | 281 | -284 | 4 | 8 | 1 | 195 | 189 |
| 7 | 15 | 0 | 144 | -138 | 9 | 19 | 0 | 30 | 43 | 16 | 2 | 1 | 434 | -433 | 11 | 5 | 1 | 286 | -288 | 6 | 8 | 1 | 264 | -272 |
| 9 | 15 | 0 | 285 | 281 | 11 | 19 | 0 | 332 | -311 | 18 | 2 | 1 | 44 | -42 | 13 | 5 | 1 | 540 | -544 | 8 | 8 | 1 | 23 | 12 |
| 13 | 15 | 0 | 243 | -248 | 13 | 19 | 0 | 68 | 101 | 20 | 2 | 1 | 396 | 408 | 15 | 5 | 1 | 379 | 377 | 10 | 8 | 1 | 308 | 309 |
| 15 | 15 | 0 | 30 | 58 | 0 | 20 | 0 | 875 | 872 | 22 | 2 | 1 | 245 | 246 | 17 | 5 | 1 | 166 | 154 | 12 | 8 | 1 | 444 | 430 |
| 17 | 15 | 0 | 265 | 295 | 2 | 20 | 0 | 31 | -27 | 24 | 2 | 1 | 96 | -81 | 19 | 5 | 1 | 46 | -27 | 14 | 8 | 1 | 435 | -436 |
| 19 | 15 | 0 | 145 | 161 | 4 | 20 | 0 | 140 | -120 | 1 | 3 | 1 | 370 | 361 | 21 | 5 | 1 | 386 | -403 | 16 | 8 | 1 | 245 | -241 |
| 0 | 16 | 0 | 475 | -451 | 6 | 20 | 0 | 78 | -87 | 3 | 3 | 1 | 253 | -245 | 23 | 5 | 1 | 113 | 94 | 18 | 8 | 1 | 212 | 205 |
| 2 | 16 | 0 | 255 | -249 | 8 | 20 | 0 | 195 | 206 | 5 | 3 | 1 | 380 | -355 | 25 | 5 | 1 | 42 | 78 | 20 | 8 | 1 | 364 | 371 |
| 4 | 16 | 0 | 80 | 72 | 10 | 20 | 0 | 389 | 391 | 7 | 3 | 1 | 324 | -329 | 0 | 6 | 1 | 455 | -427 | 22 | 8 | 1 | 60 | -32 |
| 6 | 16 | 0 | 586 | -581 | 1 | 21 | 0 | 31 | -21 | 9 | 3 | 1 | 243 | -246 | 2 | 6 | 1 | 71 | 31 | 24 | 8 | 1 | 113 | -109 |
| 8 | 16 | 0 | 86 | -68 | 3 | 21 | 0 | 197 | -178 | 11 | 3 | 1 | 442 | 442 | 4 | 6 | 1 | 361 | -354 | 1 | 9 | 1 | 825 | 810 |
| 10 | 16 | 0 | 140 | -108 | 5 | 21 | 0 | 87 | 57 | 13 | 3 | 1 | 176 | 180 | 6 | 6 | 1 | 1037 | 1032 | 3 | 9 | 1 | 51 | -8 |
| 12 | 16 | 0 | 401 | -405 | 7 | 21 | 0 | 33 | 5 | 15 | 3 | 1 | 154 | -154 | 8 | 6 | 1 | 527 | -517 | 5 | 9 | 1 | 440 | 438 |
| 14 | 16 | 0 | 31 | 39 | 0 | 22 | 0 | 860 | 899 | 17 | 3 | 1 | 238 | -235 | 10 | 6 | 1 | 87 | -81 | 7 | 9 | 1 | 320 | -312 |
| 16 | 16 | 0 | 427 | -435 | 2 | 22 | 0 | 170 | -192 | 19 | 3 | 1 | 166 | -164 | 12 | 6 | 1 | 363 | -360 | 9 | 9 | 1 | 49 | -25 |
| 18 | 16 | 0 | 106 | 113 | 1 | 1 | 1 | 109 | 91 | 21 | 3 | 1 | 360 | 375 | 14 | 6 | 1 | 53 | -45 | 11 | 9 | 1 | 1615 | 1569 |
| 1 | 17 | 0 | 281 | -260 | 3 | 1 | 1 | 219 | 221 | 23 | 3 | 1 | 31 | -40 | 16 | 6 | 1 | 896 | 881 | 13 | 9 | 1 | 171 | -175 |
| 3 | 17 | 0 | 308 | 280 | 5 | 1 | 1 | 959 | -978 | 25 | 3 | 1 | 63 | -58 | 18 | 6 | 1 | 245 | -241 | 15 | 9 | 1 | 263 | -251 |
| 5 | 17 | 0 | 1432 | 1408 | 7 | 1 | 1 | 59 | -91 | 0 | 4 | 1 | 1241 | -1263 | 20 | 6 | 1 | 421 | -431 | 17 | 9 | 1 | 72 | -42 |
| 7 | 17 | 0 | 142 | 125 | 9 | 1 | 1 | 109 | 116 | 2 | 4 | 1 | 195 | -196 | 22 | 6 | 1 | 125 | -118 | 19 | 9 | 1 | 210 | 199 |
| 9 | 17 | 0 | 30 | -9 | 11 | 1 | 1 | 601 | 592 | 4 | 4 | 1 | 37 | 23 | 24 | 6 | 1 | 223 | 224 | 21 | 9 | 1 | 588 | 605 |
| 11 | 17 | 0 | 226 | -219 | 13 | 1 | 1 | 194 | -198 | 6 | 4 | 1 | 554 | 510 | 1 | 7 | 1 | 138 | -143 | 23 | 9 | 1 | 32 | 32 |
| 13 | 17 | 0 | 249 | 245 | 15 | 1 | 1 | 381 | -379 | 8 | 4 | 1 | 273 | 273 | 3 | 7 | 1 | 379 | 375 | 0 | 10 | 1 | 1467 | -1459 |
| 15 | 17 | 0 | 469 | 514 | 17 | 1 | 1 | 588 | -597 | 10 | 4 | 1 | 825 | -819 | 5 | 7 | 1 | 1058 | -1051 | 2 | 10 | 1 | 692 | 694 |
| 0 | 18 | 0 | 363 | 367 | 19 | 1 | 1 | 526 | 519 | 12 | 4 | 1 | 554 | -556 | 7 | 7 | 1 | 189 | -190 | 4 | 10 | 1 | 113 | 103 |
| 2 | 18 | 0 | 162 | -150 | 21 | 1 | 1 | 334 | 339 | 14 | 4 | 1 | 260 | 252 | 9 | 7 | 1 | 256 | 251 | 6 | 10 | 1 | 509 | -507 |
| 4 | 18 | 0 | 97 | 99 | 23 | 1 | 1 | 174 | -173 | 16 | 4 | 1 | 341 | 335 | 11 | 7 | 1 | 152 | -155 | 8 | 10 | 1 | 81 | 74 |
| 6 | 18 | 0 | 298 | -311 | 25 | 1 | 1 | 327 | -363 | 18 | 4 | 1 | 200 | -190 | 13 | 7 | 1 | 70 | -51 | 10 | 10 | 1 | 434 | -417 |
| 8 | 18 | 0 | 181 | -148 | 0 | 2 | 1 | 104 | 153 | 20 | 4 | 1 | 126 | -111 | 15 | 7 | 1 | 253 | -260 | 12 | 10 | 1 | 25 | 2 |
| 10 | 18 | 0 | 157 | 133 | 2 | 2 | 1 | 614 | 596 | 22 | 4 | 1 | 313 | -316 | 17 | 7 | 1 | 274 | -260 | 14 | 10 | 1 | 561 | 552 |
| 12 | 18 | 0 | 129 | 148 | 4 | 2 | 1 | 188 | -183 | 24 | 4 | 1 | 122 | 126 | 19 | 7 | 1 | 176 | 171 | 16 | 10 | 1 | 592 | -602 |
| 14 | 18 | 0 | 171 | 169 | 6 | 2 | 1 | 257 | 227 | 1 | 5 | 1 | 92 | -93 | 21 | 7 | 1 | 114 | -121 | 18 | 10 | 1 | 98 | -97 |
| 1 | 19 | 0 | 83 | -89 | 8 | 2 | 1 | 456 | -466 | 3 | 5 | 1 | 296 | -300 | 23 | 7 | 1 | 161 | -177 | 20 | 10 | 1 | 140 | 142 |
| 3 | 19 | 0 | 183 | -167 | 10 | 2 | 1 | 292 | 295 | 5 | 5 | 1 | 910 | -848 | 0 | 8 | 1 | 300 | -269 | 22 | 10 | 1 | 250 | -254 |

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|----|---|------|-------|----|----|---|------|-------|----|----|---|------|-------|----|---|---|------|-------|----|---|---|------|-------|
| 1 | 11 | 1 | 47 | -13 | 10 | 14 | 1 | 515 | 518 | 8 | 18 | 1 | 174 | -179 | 3 | 1 | 2 | 600 | -566 | 23 | 3 | 2 | 155 | -153 |
| 3 | 11 | 1 | 70 | 79 | 12 | 14 | 1 | 127 | 99 | 10 | 18 | 1 | 132 | -141 | 5 | 1 | 2 | 1093 | 1213 | 25 | 3 | 2 | 32 | 17 |
| 5 | 11 | 1 | 875 | 893 | 14 | 14 | 1 | 201 | -207 | 12 | 18 | 1 | 83 | -61 | 7 | 1 | 2 | 87 | 80 | 0 | 4 | 2 | 1763 | 1950 |
| 7 | 11 | 1 | 458 | 464 | 16 | 14 | 1 | 155 | 166 | 14 | 18 | 1 | 170 | 168 | 9 | 1 | 2 | 529 | -523 | 2 | 4 | 2 | 647 | 619 |
| 9 | 11 | 1 | 217 | -216 | 18 | 14 | 1 | 31 | 33 | 1 | 19 | 1 | 402 | -400 | 11 | 1 | 2 | 468 | -473 | 4 | 4 | 2 | 159 | 139 |
| 11 | 11 | 1 | 50 | -66 | 20 | 14 | 1 | 92 | -76 | 3 | 19 | 1 | 336 | 329 | 13 | 1 | 2 | 89 | 78 | 6 | 4 | 2 | 542 | 520 |
| 13 | 11 | 1 | 171 | 172 | 1 | 15 | 1 | 44 | 33 | 5 | 19 | 1 | 60 | 4 | 15 | 1 | 2 | 701 | 687 | 8 | 4 | 2 | 185 | 196 |
| 15 | 11 | 1 | 475 | 443 | 3 | 15 | 1 | 382 | -378 | 7 | 19 | 1 | 197 | 203 | 17 | 1 | 2 | 26 | -13 | 10 | 4 | 2 | 1989 | 1996 |
| 17 | 11 | 1 | 341 | 350 | 5 | 15 | 1 | 43 | 32 | 9 | 19 | 1 | 51 | 64 | 19 | 1 | 2 | 97 | -64 | 12 | 4 | 2 | 73 | 64 |
| 19 | 11 | 1 | 171 | -181 | 7 | 15 | 1 | 314 | -311 | 11 | 19 | 1 | 574 | -610 | 21 | 1 | 2 | 191 | -191 | 14 | 4 | 2 | 100 | -70 |
| 21 | 11 | 1 | 57 | 30 | 9 | 15 | 1 | 28 | -3 | 13 | 19 | 1 | 151 | 163 | 23 | 1 | 2 | 107 | 102 | 16 | 4 | 2 | 136 | 140 |
| 0 | 12 | 1 | 832 | 832 | 11 | 15 | 1 | 130 | 134 | 0 | 20 | 1 | 804 | 807 | 25 | 1 | 2 | 126 | -146 | 18 | 4 | 2 | 548 | 540 |
| 2 | 12 | 1 | 568 | -569 | 13 | 15 | 1 | 229 | -230 | 2 | 20 | 1 | 114 | -94 | 0 | 2 | 2 | 3731 | 3968 | 20 | 4 | 2 | 207 | 208 |
| 4 | 12 | 1 | 163 | 160 | 15 | 15 | 1 | 310 | -305 | 4 | 20 | 1 | 31 | 63 | 2 | 2 | 2 | 298 | -303 | 22 | 4 | 2 | 358 | 374 |
| 6 | 12 | 1 | 734 | 723 | 17 | 15 | 1 | 41 | 32 | 6 | 20 | 1 | 248 | 265 | 4 | 2 | 2 | 344 | -332 | 24 | 4 | 2 | 124 | 125 |
| 8 | 12 | 1 | 70 | 54 | 19 | 15 | 1 | 32 | -33 | 8 | 20 | 1 | 31 | 56 | 6 | 2 | 2 | 454 | -430 | 1 | 5 | 2 | 1023 | 994 |
| 10 | 12 | 1 | 106 | -84 | 0 | 16 | 1 | 453 | -441 | 10 | 20 | 1 | 328 | 337 | 8 | 2 | 2 | 61 | -26 | 3 | 5 | 2 | 122 | 99 |
| 12 | 12 | 1 | 176 | -173 | 2 | 16 | 1 | 129 | 125 | 1 | 21 | 1 | 150 | 183 | 10 | 2 | 2 | 1418 | 1418 | 5 | 5 | 2 | 1834 | 1843 |
| 14 | 12 | 1 | 76 | -81 | 4 | 16 | 1 | 73 | -86 | 3 | 21 | 1 | 83 | -88 | 12 | 2 | 2 | 619 | 629 | 7 | 5 | 2 | 190 | -194 |
| 16 | 12 | 1 | 691 | 685 | 6 | 16 | 1 | 1136 | -1116 | 5 | 21 | 1 | 171 | -193 | 14 | 2 | 2 | 74 | -79 | 9 | 5 | 2 | 596 | 597 |
| 18 | 12 | 1 | 85 | -49 | 8 | 16 | 1 | 339 | 325 | 7 | 21 | 1 | 55 | -34 | 16 | 2 | 2 | 203 | -200 | 11 | 5 | 2 | 687 | 702 |
| 20 | 12 | 1 | 225 | -219 | 10 | 16 | 1 | 105 | -123 | 0 | 22 | 1 | 159 | -178 | 18 | 2 | 2 | 94 | -81 | 13 | 5 | 2 | 52 | -57 |
| 1 | 13 | 1 | 484 | -457 | 12 | 16 | 1 | 38 | 13 | 2 | 22 | 1 | 94 | 115 | 20 | 2 | 2 | 231 | 235 | 15 | 5 | 2 | 384 | 382 |
| 3 | 13 | 1 | 199 | 204 | 14 | 16 | 1 | 59 | -34 | 0 | 0 | 2 | 3096 | -3220 | 22 | 2 | 2 | 556 | 554 | 17 | 5 | 2 | 587 | 597 |
| 5 | 13 | 1 | 1023 | -1003 | 1 | 17 | 1 | 140 | 133 | 2 | 0 | 2 | 633 | -636 | 24 | 2 | 2 | 42 | 56 | 19 | 5 | 2 | 268 | 248 |
| 7 | 13 | 1 | 128 | 120 | 3 | 17 | 1 | 99 | -100 | 4 | 0 | 2 | 161 | 192 | 1 | 3 | 2 | 493 | -492 | 21 | 5 | 2 | 226 | -239 |
| 9 | 13 | 1 | 226 | 238 | 5 | 17 | 1 | 811 | 799 | 6 | 0 | 2 | 696 | 599 | 3 | 3 | 2 | 171 | 128 | 23 | 5 | 2 | 323 | 332 |
| 11 | 13 | 1 | 1192 | -1169 | 7 | 17 | 1 | 211 | -209 | 8 | 0 | 2 | 658 | -653 | 5 | 3 | 2 | 1185 | -1183 | 0 | 6 | 2 | 1072 | -1046 |
| 13 | 13 | 1 | 187 | 189 | 9 | 17 | 1 | 181 | -185 | 10 | 0 | 2 | 1495 | -1472 | 7 | 3 | 2 | 210 | -219 | 2 | 6 | 2 | 53 | 34 |
| 17 | 13 | 1 | 333 | -325 | 11 | 17 | 1 | 442 | 425 | 12 | 0 | 2 | 1065 | -1083 | 9 | 3 | 2 | 1093 | 1086 | 4 | 6 | 2 | 604 | 603 |
| 19 | 13 | 1 | 32 | 55 | 13 | 17 | 1 | 121 | 121 | 14 | 0 | 2 | 1206 | 1185 | 11 | 3 | 2 | 1594 | -1578 | 6 | 6 | 2 | 2455 | -2482 |
| 0 | 14 | 1 | 980 | 974 | 15 | 17 | 1 | 88 | 68 | 16 | 0 | 2 | 959 | -943 | 13 | 3 | 2 | 104 | -101 | 8 | 6 | 2 | 362 | 357 |
| 2 | 14 | 1 | 71 | -73 | 0 | 18 | 1 | 286 | -275 | 20 | 0 | 2 | 210 | -211 | 15 | 3 | 2 | 270 | -254 | 10 | 6 | 2 | 255 | -249 |
| 4 | 14 | 1 | 343 | -335 | 2 | 18 | 1 | 108 | -113 | 22 | 0 | 2 | 484 | -515 | 17 | 3 | 2 | 439 | -435 | 12 | 6 | 2 | 286 | -271 |
| 6 | 14 | 1 | 248 | 229 | 4 | 18 | 1 | 268 | 264 | 24 | 0 | 2 | 180 | 184 | 19 | 3 | 2 | 631 | 633 | 14 | 6 | 2 | 583 | 571 |
| 8 | 14 | 1 | 188 | -171 | 6 | 18 | 1 | 217 | 201 | 1 | 1 | 2 | 461 | -470 | 21 | 3 | 2 | 712 | -722 | 16 | 6 | 2 | 1545 | -1499 |

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|---|---|------|-------|----|----|---|------|-------|----|----|---|------|------|----|----|---|------|------|----|---|---|------|-------|
| 18 | 6 | 2 | 107 | 127 | 17 | 9 | 2 | 726 | -721 | 18 | 12 | 2 | 90 | 110 | 10 | 16 | 2 | 688 | 678 | 3 | 1 | 3 | 456 | -447 |
| 20 | 6 | 2 | 51 | 50 | 19 | 9 | 2 | 247 | 247 | 20 | 12 | 2 | 31 | -42 | 12 | 16 | 2 | 317 | 320 | 5 | 1 | 3 | 151 | 52 |
| 22 | 6 | 2 | 491 | -500 | 21 | 9 | 2 | 482 | -491 | 1 | 13 | 2 | 74 | -14 | 14 | 16 | 2 | 124 | 128 | 7 | 1 | 3 | 423 | 424 |
| 24 | 6 | 2 | 253 | 283 | 23 | 9 | 2 | 52 | 1 | 3 | 13 | 2 | 64 | 51 | 16 | 16 | 2 | 498 | -527 | 9 | 1 | 3 | 87 | -103 |
| 1 | 7 | 2 | 510 | -510 | 0 | 10 | 2 | 3985 | 4121 | 5 | 13 | 2 | 1502 | 1486 | 1 | 17 | 2 | 265 | 250 | 11 | 1 | 3 | 1107 | -1100 |
| 3 | 7 | 2 | 251 | 268 | 2 | 10 | 2 | 427 | -438 | 7 | 13 | 2 | 68 | -44 | 3 | 17 | 2 | 320 | -298 | 13 | 1 | 3 | 286 | 295 |
| 5 | 7 | 2 | 4161 | 4313 | 4 | 10 | 2 | 514 | -518 | 9 | 13 | 2 | 80 | 75 | 5 | 17 | 2 | 45 | 18 | 15 | 1 | 3 | 418 | 412 |
| 7 | 7 | 2 | 157 | 169 | 6 | 10 | 2 | 55 | -58 | 11 | 13 | 2 | 80 | -76 | 7 | 17 | 2 | 190 | -208 | 17 | 1 | 3 | 270 | 271 |
| 9 | 7 | 2 | 375 | -370 | 8 | 10 | 2 | 328 | 327 | 13 | 13 | 2 | 177 | 187 | 9 | 17 | 2 | 235 | 252 | 19 | 1 | 3 | 502 | -489 |
| 11 | 7 | 2 | 58 | 31 | 10 | 10 | 2 | 1721 | 1685 | 15 | 13 | 2 | 507 | 504 | 11 | 17 | 2 | 46 | 77 | 21 | 1 | 3 | 309 | -322 |
| 13 | 7 | 2 | 379 | 372 | 12 | 10 | 2 | 437 | 426 | 17 | 13 | 2 | 377 | 380 | 13 | 17 | 2 | 111 | -120 | 23 | 1 | 3 | 148 | 129 |
| 15 | 7 | 2 | 995 | 995 | 14 | 10 | 2 | 209 | -211 | 19 | 13 | 2 | 31 | 17 | 15 | 17 | 2 | 118 | -116 | 0 | 2 | 3 | 1961 | 1874 |
| 17 | 7 | 2 | 1030 | 1024 | 16 | 10 | 2 | 59 | -57 | 0 | 14 | 2 | 248 | -231 | 0 | 18 | 2 | 506 | 492 | 2 | 2 | 3 | 712 | -689 |
| 19 | 7 | 2 | 161 | -162 | 18 | 10 | 2 | 128 | 119 | 2 | 14 | 2 | 260 | -257 | 2 | 18 | 2 | 124 | -119 | 4 | 2 | 3 | 344 | -333 |
| 21 | 7 | 2 | 49 | -59 | 20 | 10 | 2 | 292 | 305 | 4 | 14 | 2 | 614 | 612 | 4 | 18 | 2 | 243 | -248 | 6 | 2 | 3 | 987 | 962 |
| 23 | 7 | 2 | 145 | 160 | 22 | 10 | 2 | 846 | 905 | 6 | 14 | 2 | 461 | -446 | 6 | 18 | 2 | 231 | -223 | 8 | 2 | 3 | 578 | 573 |
| 0 | 8 | 2 | 325 | 340 | 1 | 11 | 2 | 430 | -449 | 8 | 14 | 2 | 166 | -143 | 8 | 18 | 2 | 128 | 130 | 10 | 2 | 3 | 221 | -231 |
| 2 | 8 | 2 | 496 | -504 | 3 | 11 | 2 | 588 | -583 | 10 | 14 | 2 | 75 | 32 | 10 | 18 | 2 | 205 | 222 | 12 | 2 | 3 | 596 | -588 |
| 4 | 8 | 2 | 336 | 324 | 5 | 11 | 2 | 91 | 97 | 12 | 14 | 2 | 55 | -17 | 12 | 18 | 2 | 214 | -256 | 14 | 2 | 3 | 274 | 278 |
| 6 | 8 | 2 | 322 | -314 | 7 | 11 | 2 | 25 | 26 | 14 | 14 | 2 | 207 | 222 | 14 | 18 | 2 | 75 | 30 | 16 | 2 | 3 | 769 | 759 |
| 8 | 8 | 2 | 466 | -468 | 9 | 11 | 2 | 489 | 483 | 16 | 14 | 2 | 513 | -538 | 1 | 19 | 2 | 107 | 83 | 18 | 2 | 3 | 145 | -152 |
| 10 | 8 | 2 | 188 | 184 | 11 | 11 | 2 | 1700 | -1676 | 18 | 14 | 2 | 265 | 253 | 3 | 19 | 2 | 102 | 82 | 20 | 2 | 3 | 315 | -315 |
| 12 | 8 | 2 | 61 | -51 | 13 | 11 | 2 | 90 | 75 | 1 | 15 | 2 | 616 | -601 | 5 | 19 | 2 | 423 | 396 | 22 | 2 | 3 | 144 | 149 |
| 14 | 8 | 2 | 428 | 427 | 15 | 11 | 2 | 68 | 48 | 3 | 15 | 2 | 167 | 167 | 7 | 19 | 2 | 319 | 311 | 24 | 2 | 3 | 61 | -43 |
| 16 | 8 | 2 | 783 | -780 | 17 | 11 | 2 | 102 | 79 | 5 | 15 | 2 | 1277 | 1266 | 9 | 19 | 2 | 228 | 241 | 1 | 3 | 3 | 451 | -444 |
| 18 | 8 | 2 | 107 | 88 | 19 | 11 | 2 | 31 | 14 | 7 | 15 | 2 | 355 | -352 | 11 | 19 | 2 | 355 | -368 | 3 | 3 | 3 | 249 | -240 |
| 20 | 8 | 2 | 114 | -88 | 21 | 11 | 2 | 569 | -599 | 9 | 15 | 2 | 77 | -100 | 0 | 20 | 2 | 413 | 403 | 5 | 3 | 3 | 903 | -882 |
| 22 | 8 | 2 | 161 | 170 | 0 | 12 | 2 | 1291 | 1274 | 11 | 15 | 2 | 376 | -353 | 2 | 20 | 2 | 259 | -252 | 7 | 3 | 3 | 674 | 671 |
| 1 | 9 | 2 | 504 | -492 | 2 | 12 | 2 | 186 | -187 | 13 | 15 | 2 | 131 | 139 | 4 | 20 | 2 | 85 | -75 | 9 | 3 | 3 | 209 | 193 |
| 3 | 9 | 2 | 176 | -181 | 4 | 12 | 2 | 233 | -229 | 15 | 15 | 2 | 157 | 173 | 6 | 20 | 2 | 97 | 62 | 11 | 3 | 3 | 1368 | -1385 |
| 5 | 9 | 2 | 532 | -535 | 6 | 12 | 2 | 670 | -653 | 17 | 15 | 2 | 241 | 246 | 8 | 20 | 2 | 181 | -183 | 13 | 3 | 3 | 66 | 40 |
| 7 | 9 | 2 | 498 | -492 | 8 | 12 | 2 | 271 | 262 | 0 | 16 | 2 | 804 | 770 | 10 | 20 | 2 | 47 | 28 | 15 | 3 | 3 | 224 | 224 |
| 9 | 9 | 2 | 409 | 396 | 10 | 12 | 2 | 569 | 561 | 2 | 16 | 2 | 191 | 188 | 1 | 21 | 2 | 159 | -154 | 17 | 3 | 3 | 227 | -230 |
| 11 | 9 | 2 | 1439 | -1421 | 12 | 12 | 2 | 280 | -269 | 4 | 16 | 2 | 135 | 144 | 3 | 21 | 2 | 102 | 94 | 19 | 3 | 3 | 115 | 103 |
| 13 | 9 | 2 | 341 | 345 | 14 | 12 | 2 | 286 | 282 | 6 | 16 | 2 | 524 | -517 | 5 | 21 | 2 | 175 | 199 | 21 | 3 | 3 | 379 | -389 |
| 15 | 9 | 2 | 57 | -25 | 16 | 12 | 2 | 474 | -466 | 8 | 16 | 2 | 30 | 53 | 1 | 1 | 3 | 135 | -123 | 23 | 3 | 3 | 83 | -19 |

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR B-FREE KORNERUPINE 9365, C MCM

PAGE 5

| H | K | L | IOFO | IOFC | H | K | L | IOFO | IOFC | H | K | L | IOFO | IOFC | H | K | L | IOFO | IOFC | H | K | L | IOFO | IOFC |
|----|---|---|------|-------|----|---|---|------|-------|----|----|---|------|------|----|----|---|------|------|----|----|---|------|------|
| 0 | 4 | 3 | 2186 | 2167 | 22 | 6 | 3 | 70 | -53 | 21 | 9 | 3 | 443 | -482 | 5 | 13 | 3 | 472 | 476 | 1 | 17 | 3 | 192 | -191 |
| 2 | 4 | 3 | 47 | 19 | 24 | 6 | 3 | 116 | -124 | 0 | 10 | 3 | 1065 | 1054 | 7 | 13 | 3 | 93 | 93 | 3 | 17 | 3 | 141 | 139 |
| 4 | 4 | 3 | 224 | -214 | 1 | 7 | 3 | 143 | 128 | 2 | 10 | 3 | 652 | -662 | 9 | 13 | 3 | 181 | -184 | 5 | 17 | 3 | 540 | -547 |
| 6 | 4 | 3 | 313 | 317 | 3 | 7 | 3 | 73 | -90 | 4 | 10 | 3 | 195 | -193 | 11 | 13 | 3 | 563 | 550 | 7 | 17 | 3 | 30 | -10 |
| 8 | 4 | 3 | 106 | -100 | 5 | 7 | 3 | 1580 | 1592 | 6 | 10 | 3 | 301 | 295 | 13 | 13 | 3 | 48 | -51 | 9 | 17 | 3 | 106 | 112 |
| 10 | 4 | 3 | 818 | 811 | 7 | 7 | 3 | 212 | -220 | 8 | 10 | 3 | 127 | -125 | 15 | 13 | 3 | 43 | 43 | 11 | 17 | 3 | 128 | -128 |
| 12 | 4 | 3 | 575 | 575 | 9 | 7 | 3 | 274 | -268 | 10 | 10 | 3 | 262 | 242 | 17 | 13 | 3 | 31 | 25 | 13 | 17 | 3 | 213 | -243 |
| 14 | 4 | 3 | 100 | -103 | 11 | 7 | 3 | 860 | 852 | 12 | 10 | 3 | 55 | -76 | 19 | 13 | 3 | 32 | -67 | 15 | 17 | 3 | 148 | -166 |
| 16 | 4 | 3 | 70 | -14 | 13 | 7 | 3 | 155 | -148 | 14 | 10 | 3 | 521 | -521 | 0 | 14 | 3 | 377 | -371 | 0 | 18 | 3 | 126 | -130 |
| 18 | 4 | 3 | 93 | 78 | 15 | 7 | 3 | 126 | 120 | 16 | 10 | 3 | 389 | 409 | 2 | 14 | 3 | 27 | 43 | 2 | 18 | 3 | 187 | 189 |
| 20 | 4 | 3 | 133 | 143 | 17 | 7 | 3 | 597 | 585 | 18 | 10 | 3 | 68 | 51 | 4 | 14 | 3 | 262 | 257 | 4 | 18 | 3 | 117 | -107 |
| 22 | 4 | 3 | 537 | 553 | 19 | 7 | 3 | 148 | -139 | 20 | 10 | 3 | 147 | -153 | 6 | 14 | 3 | 126 | 125 | 6 | 18 | 3 | 422 | -431 |
| 24 | 4 | 3 | 157 | -176 | 21 | 7 | 3 | 92 | 108 | 22 | 10 | 3 | 135 | 151 | 8 | 14 | 3 | 229 | 221 | 8 | 18 | 3 | 131 | 132 |
| 1 | 5 | 3 | 73 | -88 | 23 | 7 | 3 | 195 | 196 | 1 | 11 | 3 | 138 | 141 | 10 | 14 | 3 | 356 | -366 | 10 | 18 | 3 | 147 | 136 |
| 3 | 5 | 3 | 158 | 158 | 0 | 8 | 3 | 1037 | -1056 | 3 | 11 | 3 | 110 | -111 | 12 | 14 | 3 | 29 | -25 | 12 | 18 | 3 | 95 | 54 |
| 5 | 5 | 3 | 439 | 407 | 2 | 8 | 3 | 64 | -42 | 5 | 11 | 3 | 889 | -900 | 14 | 14 | 3 | 253 | 264 | 1 | 19 | 3 | 422 | 429 |
| 7 | 5 | 3 | 776 | -779 | 4 | 8 | 3 | 123 | 123 | 7 | 11 | 3 | 164 | -171 | 16 | 14 | 3 | 90 | 71 | 3 | 19 | 3 | 237 | -250 |
| 9 | 5 | 3 | 201 | 195 | 6 | 8 | 3 | 497 | -509 | 9 | 11 | 3 | 262 | 266 | 18 | 14 | 3 | 106 | -83 | 5 | 19 | 3 | 227 | 225 |
| 11 | 5 | 3 | 161 | 136 | 8 | 8 | 3 | 144 | -149 | 11 | 11 | 3 | 164 | -152 | 1 | 15 | 3 | 193 | -168 | 7 | 19 | 3 | 237 | -231 |
| 13 | 5 | 3 | 420 | 416 | 10 | 8 | 3 | 361 | -355 | 13 | 11 | 3 | 58 | -12 | 3 | 15 | 3 | 290 | 299 | 9 | 19 | 3 | 65 | -56 |
| 15 | 5 | 3 | 403 | -393 | 12 | 8 | 3 | 467 | -462 | 15 | 11 | 3 | 298 | -283 | 5 | 15 | 3 | 204 | -194 | 11 | 19 | 3 | 783 | 817 |
| 17 | 5 | 3 | 198 | -197 | 14 | 8 | 3 | 245 | 238 | 19 | 11 | 3 | 178 | 190 | 7 | 15 | 3 | 198 | 200 | 0 | 20 | 3 | 853 | -873 |
| 19 | 5 | 3 | 51 | -4 | 16 | 8 | 3 | 149 | -132 | 21 | 11 | 3 | 51 | 36 | 9 | 15 | 3 | 30 | -42 | 2 | 20 | 3 | 94 | 45 |
| 21 | 5 | 3 | 284 | 308 | 18 | 8 | 3 | 73 | -27 | 0 | 12 | 3 | 64 | -63 | 11 | 15 | 3 | 284 | -273 | 4 | 20 | 3 | 104 | -124 |
| 23 | 5 | 3 | 66 | -105 | 20 | 8 | 3 | 376 | -382 | 2 | 12 | 3 | 348 | 348 | 13 | 15 | 3 | 158 | 155 | 6 | 20 | 3 | 332 | -355 |
| 0 | 6 | 3 | 512 | -492 | 22 | 8 | 3 | 299 | -310 | 4 | 12 | 3 | 393 | -392 | 15 | 15 | 3 | 213 | 214 | 8 | 20 | 3 | 90 | -80 |
| 2 | 6 | 3 | 195 | 188 | 1 | 9 | 3 | 537 | -531 | 6 | 12 | 3 | 274 | -266 | 17 | 15 | 3 | 102 | -114 | 1 | 21 | 3 | 96 | -64 |
| 4 | 6 | 3 | 558 | 547 | 3 | 9 | 3 | 197 | 204 | 8 | 12 | 3 | 42 | 19 | 0 | 16 | 3 | 272 | 280 | 3 | 21 | 3 | 102 | 82 |
| 6 | 6 | 3 | 1284 | -1289 | 5 | 9 | 3 | 164 | 175 | 10 | 12 | 3 | 63 | 39 | 2 | 16 | 3 | 41 | -3 | 0 | 0 | 4 | 5939 | 6582 |
| 8 | 6 | 3 | 355 | 358 | 7 | 9 | 3 | 183 | 177 | 12 | 12 | 3 | 164 | 149 | 4 | 16 | 3 | 269 | 258 | 2 | 0 | 4 | 252 | -262 |
| 10 | 6 | 3 | 132 | 139 | 9 | 9 | 3 | 66 | 50 | 14 | 12 | 3 | 173 | 166 | 6 | 16 | 3 | 959 | 955 | 4 | 0 | 4 | 346 | -359 |
| 12 | 6 | 3 | 321 | 322 | 11 | 9 | 3 | 875 | -860 | 16 | 12 | 3 | 436 | -443 | 8 | 16 | 3 | 291 | -284 | 6 | 0 | 4 | 178 | -185 |
| 14 | 6 | 3 | 64 | -47 | 13 | 9 | 3 | 104 | 107 | 18 | 12 | 3 | 122 | -118 | 10 | 16 | 3 | 218 | 235 | 8 | 0 | 4 | 525 | 526 |
| 16 | 6 | 3 | 924 | -925 | 15 | 9 | 3 | 238 | 228 | 20 | 12 | 3 | 205 | 213 | 12 | 16 | 3 | 53 | 54 | 10 | 0 | 4 | 2786 | 2792 |
| 18 | 6 | 3 | 357 | 351 | 17 | 9 | 3 | 316 | 307 | 1 | 13 | 3 | 386 | 377 | 14 | 16 | 3 | 76 | 18 | 12 | 0 | 4 | 1016 | 1010 |
| 20 | 6 | 3 | 367 | 377 | 19 | 9 | 3 | 133 | -140 | 3 | 13 | 3 | 314 | -312 | 16 | 16 | 3 | 705 | 783 | 14 | 0 | 4 | 420 | -419 |

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|---|---|------|-------|----|---|---|------|-------|----|---|---|------|-------|----|----|---|------|------|----|----|---|------|------|
| 16 | 0 | 4 | 152 | 160 | 13 | 3 | 4 | 255 | 241 | 12 | 6 | 4 | 154 | 145 | 15 | 9 | 4 | 612 | 614 | 3 | 13 | 4 | 183 | -170 |
| 18 | 0 | 4 | 343 | 330 | 15 | 3 | 4 | 832 | 819 | 14 | 6 | 4 | 135 | -126 | 17 | 9 | 4 | 607 | 608 | 5 | 13 | 4 | 159 | -153 |
| 20 | 0 | 4 | 379 | 378 | 17 | 3 | 4 | 755 | 731 | 16 | 6 | 4 | 71 | -78 | 19 | 9 | 4 | 71 | 46 | 7 | 13 | 4 | 255 | -239 |
| 22 | 0 | 4 | 1199 | 1225 | 19 | 3 | 4 | 266 | -269 | 18 | 6 | 4 | 250 | 245 | 21 | 9 | 4 | 138 | -142 | 9 | 13 | 4 | 161 | 155 |
| 24 | 0 | 4 | 162 | -174 | 21 | 3 | 4 | 104 | -84 | 20 | 6 | 4 | 96 | 85 | 0 | 10 | 4 | 719 | -729 | 11 | 13 | 4 | 664 | -666 |
| 1 | 1 | 4 | 421 | -426 | 23 | 3 | 4 | 303 | 305 | 22 | 6 | 4 | 411 | 428 | 2 | 10 | 4 | 104 | -100 | 13 | 13 | 4 | 98 | -99 |
| 3 | 1 | 4 | 45 | 12 | 0 | 4 | 4 | 559 | -561 | 1 | 7 | 4 | 206 | 195 | 4 | 10 | 4 | 330 | 335 | 15 | 13 | 4 | 145 | -144 |
| 5 | 1 | 4 | 80 | 74 | 2 | 4 | 4 | 480 | -487 | 3 | 7 | 4 | 307 | -312 | 6 | 10 | 4 | 148 | -137 | 17 | 13 | 4 | 181 | -192 |
| 7 | 1 | 4 | 92 | -81 | 4 | 4 | 4 | 390 | 391 | 5 | 7 | 4 | 1143 | -1141 | 8 | 10 | 4 | 217 | -221 | 0 | 14 | 4 | 1114 | 1122 |
| 9 | 1 | 4 | 945 | 939 | 6 | 4 | 4 | 1989 | -2013 | 7 | 7 | 4 | 359 | -365 | 10 | 10 | 4 | 352 | -341 | 2 | 14 | 4 | 194 | 181 |
| 11 | 1 | 4 | 1742 | -1732 | 8 | 4 | 4 | 88 | -98 | 9 | 7 | 4 | 755 | 750 | 12 | 10 | 4 | 288 | -298 | 4 | 14 | 4 | 255 | -261 |
| 13 | 1 | 4 | 355 | 347 | 10 | 4 | 4 | 387 | -385 | 11 | 7 | 4 | 726 | -706 | 14 | 10 | 4 | 574 | 576 | 6 | 14 | 4 | 343 | -334 |
| 15 | 1 | 4 | 106 | 98 | 12 | 4 | 4 | 133 | -124 | 13 | 7 | 4 | 138 | -123 | 16 | 10 | 4 | 404 | -414 | 8 | 14 | 4 | 190 | 179 |
| 17 | 1 | 4 | 116 | -108 | 14 | 4 | 4 | 483 | 474 | 15 | 7 | 4 | 255 | -247 | 18 | 10 | 4 | 78 | -62 | 10 | 14 | 4 | 755 | 759 |
| 19 | 1 | 4 | 355 | 356 | 16 | 4 | 4 | 1467 | -1443 | 17 | 7 | 4 | 467 | -464 | 20 | 10 | 4 | 137 | -135 | 12 | 14 | 4 | 69 | 63 |
| 21 | 1 | 4 | 641 | -652 | 18 | 4 | 4 | 52 | -60 | 19 | 7 | 4 | 382 | 407 | 1 | 11 | 4 | 145 | -123 | 14 | 14 | 4 | 49 | 54 |
| 23 | 1 | 4 | 37 | 31 | 20 | 4 | 4 | 58 | -29 | 21 | 7 | 4 | 439 | -472 | 3 | 11 | 4 | 298 | 297 | 16 | 14 | 4 | 205 | -203 |
| 0 | 2 | 4 | 344 | 363 | 22 | 4 | 4 | 264 | -258 | 0 | 8 | 4 | 1756 | 1794 | 5 | 11 | 4 | 804 | 799 | 1 | 15 | 4 | 331 | 315 |
| 2 | 2 | 4 | 206 | -218 | 1 | 5 | 4 | 875 | -869 | 2 | 8 | 4 | 33 | -6 | 7 | 11 | 4 | 43 | -54 | 3 | 15 | 4 | 231 | -227 |
| 4 | 2 | 4 | 332 | 318 | 3 | 5 | 4 | 78 | -87 | 4 | 8 | 4 | 320 | -318 | 9 | 11 | 4 | 54 | -57 | 5 | 15 | 4 | 248 | 224 |
| 6 | 2 | 4 | 375 | -390 | 5 | 5 | 4 | 1502 | 1516 | 6 | 8 | 4 | 558 | -548 | 11 | 11 | 4 | 37 | 18 | 7 | 15 | 4 | 29 | 10 |
| 8 | 2 | 4 | 117 | 115 | 7 | 5 | 4 | 384 | -384 | 8 | 8 | 4 | 404 | 404 | 13 | 11 | 4 | 190 | 209 | 9 | 15 | 4 | 250 | 245 |
| 10 | 2 | 4 | 363 | 355 | 9 | 5 | 4 | 59 | -63 | 10 | 8 | 4 | 889 | 875 | 15 | 11 | 4 | 432 | 411 | 11 | 15 | 4 | 115 | 98 |
| 12 | 2 | 4 | 430 | -426 | 11 | 5 | 4 | 832 | -827 | 12 | 8 | 4 | 27 | -5 | 17 | 11 | 4 | 176 | -183 | 13 | 15 | 4 | 135 | -136 |
| 14 | 2 | 4 | 584 | 575 | 13 | 5 | 4 | 90 | 84 | 14 | 8 | 4 | 50 | 33 | 19 | 11 | 4 | 208 | 207 | 15 | 15 | 4 | 118 | 106 |
| 16 | 2 | 4 | 741 | -732 | 15 | 5 | 4 | 256 | 238 | 16 | 8 | 4 | 250 | -232 | 0 | 12 | 4 | 903 | 898 | 0 | 16 | 4 | 130 | -120 |
| 18 | 2 | 4 | 277 | 287 | 17 | 5 | 4 | 152 | 146 | 18 | 8 | 4 | 29 | 59 | 2 | 12 | 4 | 57 | -60 | 2 | 16 | 4 | 233 | -230 |
| 20 | 2 | 4 | 47 | -21 | 19 | 5 | 4 | 72 | 49 | 20 | 8 | 4 | 211 | 201 | 4 | 12 | 4 | 337 | 323 | 4 | 16 | 4 | 30 | 3 |
| 22 | 2 | 4 | 62 | 30 | 21 | 5 | 4 | 372 | -368 | 22 | 8 | 4 | 178 | 175 | 6 | 12 | 4 | 239 | 242 | 6 | 16 | 4 | 305 | -310 |
| 24 | 2 | 4 | 40 | 30 | 23 | 5 | 4 | 79 | -82 | 1 | 9 | 4 | 88 | 73 | 8 | 12 | 4 | 178 | -162 | 8 | 16 | 4 | 62 | -15 |
| 1 | 3 | 4 | 64 | -84 | 0 | 6 | 4 | 1890 | 1907 | 3 | 9 | 4 | 77 | -64 | 10 | 12 | 4 | 569 | 553 | 10 | 16 | 4 | 106 | -77 |
| 3 | 3 | 4 | 259 | -257 | 2 | 6 | 4 | 145 | -157 | 5 | 9 | 4 | 1672 | 1680 | 12 | 12 | 4 | 340 | 341 | 12 | 16 | 4 | 312 | -322 |
| 5 | 3 | 4 | 3252 | 3358 | 4 | 6 | 4 | 164 | -170 | 7 | 9 | 4 | 444 | 449 | 14 | 12 | 4 | 53 | 84 | 14 | 16 | 4 | 103 | 83 |
| 7 | 3 | 4 | 174 | -184 | 6 | 6 | 4 | 238 | 238 | 9 | 9 | 4 | 116 | 110 | 16 | 12 | 4 | 30 | -44 | 1 | 17 | 4 | 281 | -271 |
| 9 | 3 | 4 | 452 | -444 | 8 | 6 | 4 | 247 | -247 | 11 | 9 | 4 | 200 | -187 | 18 | 12 | 4 | 72 | 63 | 3 | 17 | 4 | 203 | 193 |
| 11 | 3 | 4 | 293 | 285 | 10 | 6 | 4 | 1326 | 1305 | 13 | 9 | 4 | 78 | 55 | 1 | 13 | 4 | 377 | -374 | 5 | 17 | 4 | 1030 | 1041 |

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR B-FREE KORNERUPINE 9365, C MCM

PAGE 7

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|----|---|------|------|----|---|---|------|------|----|---|---|------|------|----|----|---|------|-------|----|----|---|------|-------|
| 7 | 17 | 4 | 116 | 98 | 12 | 2 | 5 | 596 | 578 | 15 | 5 | 5 | 270 | 268 | 18 | 8 | 5 | 228 | 232 | 8 | 12 | 5 | 60 | 33 |
| 9 | 17 | 4 | 75 | -24 | 14 | 2 | 5 | 47 | -6 | 17 | 5 | 5 | 88 | 93 | 20 | 8 | 5 | 258 | 266 | 10 | 12 | 5 | 102 | -84 |
| 11 | 17 | 4 | 317 | -311 | 16 | 2 | 5 | 67 | -82 | 19 | 5 | 5 | 48 | -26 | 1 | 9 | 5 | 604 | 602 | 12 | 12 | 5 | 148 | -133 |
| 13 | 17 | 4 | 207 | 197 | 18 | 2 | 5 | 126 | -127 | 21 | 5 | 5 | 291 | -323 | 3 | 9 | 5 | 36 | -6 | 14 | 12 | 5 | 30 | -23 |
| 0 | 18 | 4 | 324 | 329 | 20 | 2 | 5 | 305 | 324 | 0 | 6 | 5 | 311 | -354 | 5 | 9 | 5 | 532 | 521 | 16 | 12 | 5 | 558 | 611 |
| 2 | 18 | 4 | 103 | -83 | 22 | 2 | 5 | 387 | 401 | 2 | 6 | 5 | 24 | 34 | 7 | 9 | 5 | 290 | -279 | 18 | 12 | 5 | 86 | -122 |
| 4 | 18 | 4 | 140 | 148 | 1 | 3 | 5 | 117 | 115 | 4 | 6 | 5 | 46 | -31 | 9 | 9 | 5 | 50 | -6 | 1 | 13 | 5 | 368 | -370 |
| 6 | 18 | 4 | 221 | -236 | 3 | 3 | 5 | 231 | -226 | 6 | 6 | 5 | 527 | 519 | 11 | 9 | 5 | 1354 | 1358 | 3 | 13 | 5 | 116 | 117 |
| 8 | 18 | 4 | 130 | -110 | 5 | 3 | 5 | 523 | -547 | 8 | 6 | 5 | 317 | -318 | 13 | 9 | 5 | 157 | -170 | 5 | 13 | 5 | 896 | -914 |
| 10 | 18 | 4 | 169 | 182 | 7 | 3 | 5 | 49 | -43 | 10 | 6 | 5 | 64 | -34 | 15 | 9 | 5 | 197 | -187 | 7 | 13 | 5 | 183 | 179 |
| 1 | 19 | 4 | 126 | -132 | 9 | 3 | 5 | 123 | -126 | 12 | 6 | 5 | 238 | -235 | 17 | 9 | 5 | 116 | 109 | 9 | 13 | 5 | 207 | 190 |
| 3 | 19 | 4 | 126 | -122 | 11 | 3 | 5 | 138 | -130 | 14 | 6 | 5 | 28 | -48 | 19 | 9 | 5 | 183 | 171 | 11 | 13 | 5 | 1129 | -1137 |
| 5 | 19 | 4 | 229 | 257 | 13 | 3 | 5 | 188 | 194 | 16 | 6 | 5 | 569 | 567 | 0 | 10 | 5 | 1107 | -1098 | 13 | 13 | 5 | 209 | 216 |
| 7 | 19 | 4 | 209 | -196 | 15 | 3 | 5 | 69 | -79 | 18 | 6 | 5 | 111 | -111 | 2 | 10 | 5 | 396 | 400 | 15 | 13 | 5 | 74 | 62 |
| 9 | 19 | 4 | 31 | 9 | 17 | 3 | 5 | 408 | -408 | 20 | 6 | 5 | 303 | -321 | 4 | 10 | 5 | 34 | -5 | 17 | 13 | 5 | 380 | -397 |
| 0 | 20 | 4 | 575 | 580 | 19 | 3 | 5 | 128 | -127 | 22 | 6 | 5 | 188 | -191 | 6 | 10 | 5 | 493 | -484 | 0 | 14 | 5 | 987 | 994 |
| 2 | 20 | 4 | 31 | 26 | 21 | 3 | 5 | 225 | 239 | 1 | 7 | 5 | 72 | -76 | 8 | 10 | 5 | 62 | 43 | 2 | 14 | 5 | 71 | -65 |
| 4 | 20 | 4 | 68 | -15 | 0 | 4 | 5 | 229 | -230 | 3 | 7 | 5 | 327 | 331 | 10 | 10 | 5 | 375 | -378 | 4 | 14 | 5 | 236 | -243 |
| 1 | 1 | 5 | 32 | 3 | 2 | 4 | 5 | 114 | -99 | 5 | 7 | 5 | 410 | -398 | 12 | 10 | 5 | 85 | -59 | 6 | 14 | 5 | 347 | 347 |
| 3 | 1 | 5 | 65 | 70 | 4 | 4 | 5 | 54 | -6 | 7 | 7 | 5 | 257 | -260 | 14 | 10 | 5 | 381 | 383 | 8 | 14 | 5 | 97 | -94 |
| 5 | 1 | 5 | 783 | -792 | 6 | 4 | 5 | 543 | 540 | 9 | 7 | 5 | 174 | 166 | 16 | 10 | 5 | 511 | -526 | 10 | 14 | 5 | 454 | 463 |
| 7 | 1 | 5 | 62 | -49 | 8 | 4 | 5 | 230 | 229 | 11 | 7 | 5 | 236 | 228 | 18 | 10 | 5 | 117 | -102 | 12 | 14 | 5 | 145 | 124 |
| 9 | 1 | 5 | 107 | 115 | 10 | 4 | 5 | 483 | -477 | 13 | 7 | 5 | 132 | -126 | 1 | 11 | 5 | 43 | 35 | 14 | 14 | 5 | 123 | -119 |
| 11 | 1 | 5 | 114 | 91 | 12 | 4 | 5 | 339 | -334 | 15 | 7 | 5 | 236 | -233 | 3 | 11 | 5 | 49 | 27 | 16 | 14 | 5 | 239 | 254 |
| 13 | 1 | 5 | 79 | -62 | 14 | 4 | 5 | 257 | 249 | 17 | 7 | 5 | 68 | -12 | 5 | 11 | 5 | 577 | 580 | 1 | 15 | 5 | 29 | -47 |
| 15 | 1 | 5 | 259 | -258 | 16 | 4 | 5 | 415 | 400 | 19 | 7 | 5 | 134 | 138 | 7 | 11 | 5 | 415 | 427 | 3 | 15 | 5 | 281 | -292 |
| 17 | 1 | 5 | 578 | -580 | 18 | 4 | 5 | 194 | -190 | 21 | 7 | 5 | 80 | -69 | 9 | 11 | 5 | 143 | -129 | 5 | 15 | 5 | 39 | -70 |
| 19 | 1 | 5 | 377 | 384 | 20 | 4 | 5 | 42 | -61 | 0 | 8 | 5 | 532 | -548 | 11 | 11 | 5 | 134 | -153 | 7 | 15 | 5 | 260 | -271 |
| 21 | 1 | 5 | 214 | 230 | 22 | 4 | 5 | 104 | -100 | 2 | 8 | 5 | 230 | 229 | 13 | 11 | 5 | 189 | 191 | 9 | 15 | 5 | 70 | -16 |
| 23 | 1 | 5 | 152 | -152 | 1 | 5 | 5 | 127 | -115 | 4 | 8 | 5 | 177 | 173 | 15 | 11 | 5 | 399 | 390 | 11 | 15 | 5 | 67 | -8 |
| 0 | 2 | 5 | 776 | 800 | 3 | 5 | 5 | 138 | -138 | 6 | 8 | 5 | 516 | -509 | 17 | 11 | 5 | 206 | 209 | 13 | 15 | 5 | 210 | -190 |
| 2 | 2 | 5 | 206 | 197 | 5 | 5 | 5 | 379 | -366 | 8 | 8 | 5 | 61 | -37 | 19 | 11 | 5 | 122 | -128 | 15 | 15 | 5 | 273 | -268 |
| 4 | 2 | 5 | 217 | -218 | 7 | 5 | 5 | 516 | 511 | 10 | 8 | 5 | 203 | 205 | 0 | 12 | 5 | 818 | 834 | 0 | 16 | 5 | 333 | -345 |
| 6 | 2 | 5 | 453 | 462 | 9 | 5 | 5 | 209 | -204 | 12 | 8 | 5 | 266 | 272 | 2 | 12 | 5 | 487 | -486 | 2 | 16 | 5 | 150 | 154 |
| 8 | 2 | 5 | 207 | -204 | 11 | 5 | 5 | 263 | -252 | 14 | 8 | 5 | 381 | -377 | 4 | 12 | 5 | 27 | 4 | 4 | 16 | 5 | 30 | 29 |
| 10 | 2 | 5 | 309 | 313 | 13 | 5 | 5 | 358 | -360 | 16 | 8 | 5 | 350 | -360 | 6 | 12 | 5 | 698 | 699 | 6 | 16 | 5 | 846 | -858 |

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR B-FREE KORNERUPINE 9365, C MCM

PAGE 8

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|----|---|------|-------|----|---|---|------|-------|----|---|---|------|------|----|----|---|------|------|----|----|---|------|------|
| 8 | 16 | 5 | 262 | 263 | 17 | 1 | 6 | 281 | 271 | 1 | 5 | 6 | 348 | 347 | 10 | 8 | 6 | 221 | 224 | 8 | 12 | 6 | 92 | 114 |
| 10 | 16 | 5 | 92 | -10 | 19 | 1 | 6 | 31 | 7 | 3 | 5 | 6 | 255 | -256 | 12 | 8 | 6 | 42 | 13 | 10 | 12 | 6 | 291 | 284 |
| 12 | 16 | 5 | 62 | 51 | 21 | 1 | 6 | 90 | -111 | 5 | 5 | 6 | 558 | 541 | 14 | 8 | 6 | 246 | 264 | 12 | 12 | 6 | 217 | -237 |
| 1 | 17 | 5 | 124 | 66 | 0 | 2 | 6 | 1658 | 1633 | 7 | 5 | 6 | 126 | 113 | 16 | 8 | 6 | 499 | -507 | 14 | 12 | 6 | 127 | 144 |
| 3 | 17 | 5 | 40 | -63 | 2 | 2 | 6 | 141 | -145 | 9 | 5 | 6 | 318 | 322 | 18 | 8 | 6 | 156 | 137 | 16 | 12 | 6 | 488 | -486 |
| 5 | 17 | 5 | 690 | 706 | 4 | 2 | 6 | 79 | -73 | 11 | 5 | 6 | 214 | -218 | 1 | 9 | 6 | 372 | -371 | 1 | 13 | 6 | 64 | 68 |
| 7 | 17 | 5 | 250 | -265 | 6 | 2 | 6 | 408 | -406 | 13 | 5 | 6 | 95 | 80 | 3 | 9 | 6 | 48 | 16 | 3 | 13 | 6 | 50 | 32 |
| 9 | 17 | 5 | 138 | -170 | 8 | 2 | 6 | 81 | -90 | 15 | 5 | 6 | 322 | 320 | 5 | 9 | 6 | 80 | -53 | 5 | 13 | 6 | 1016 | 1029 |
| 11 | 17 | 5 | 432 | 452 | 10 | 2 | 6 | 875 | 850 | 17 | 5 | 6 | 74 | 89 | 7 | 9 | 6 | 499 | -505 | 7 | 13 | 6 | 92 | 79 |
| 0 | 18 | 5 | 412 | -411 | 12 | 2 | 6 | 348 | 339 | 19 | 5 | 6 | 126 | 126 | 9 | 9 | 6 | 245 | 240 | 9 | 13 | 6 | 102 | 88 |
| 2 | 18 | 5 | 43 | -42 | 14 | 2 | 6 | 97 | -98 | 0 | 6 | 6 | 63 | 62 | 11 | 9 | 6 | 620 | -617 | 11 | 13 | 6 | 65 | -78 |
| 4 | 18 | 5 | 262 | 264 | 16 | 2 | 6 | 233 | -233 | 2 | 6 | 6 | 104 | -97 | 13 | 9 | 6 | 116 | 122 | 13 | 13 | 6 | 220 | 209 |
| 6 | 18 | 5 | 31 | -3 | 18 | 2 | 6 | 71 | -21 | 4 | 6 | 6 | 174 | 172 | 15 | 9 | 6 | 113 | -102 | 15 | 13 | 6 | 407 | 420 |
| 8 | 18 | 5 | 116 | -142 | 20 | 2 | 6 | 138 | 145 | 6 | 6 | 6 | 952 | -939 | 17 | 9 | 6 | 296 | -313 | 0 | 14 | 6 | 130 | 117 |
| 1 | 19 | 5 | 266 | -271 | 1 | 3 | 6 | 281 | -272 | 8 | 6 | 6 | 315 | 305 | 0 | 10 | 6 | 1911 | 1927 | 2 | 14 | 6 | 284 | -280 |
| 3 | 19 | 5 | 250 | 262 | 3 | 3 | 6 | 45 | -16 | 10 | 6 | 6 | 146 | -136 | 2 | 10 | 6 | 131 | -143 | 4 | 14 | 6 | 235 | 239 |
| 5 | 19 | 5 | 133 | 151 | 5 | 3 | 6 | 853 | -844 | 12 | 6 | 6 | 153 | -152 | 4 | 10 | 6 | 126 | -130 | 6 | 14 | 6 | 139 | -151 |
| 0 | 0 | 6 | 2363 | -2376 | 7 | 3 | 6 | 99 | -90 | 14 | 6 | 6 | 512 | 502 | 6 | 10 | 6 | 415 | -420 | 8 | 14 | 6 | 90 | -79 |
| 2 | 0 | 6 | 146 | -143 | 9 | 3 | 6 | 694 | 678 | 16 | 6 | 6 | 769 | -764 | 8 | 10 | 6 | 130 | 123 | 10 | 14 | 6 | 30 | -49 |
| 4 | 0 | 6 | 461 | 459 | 11 | 3 | 6 | 1150 | -1137 | 18 | 6 | 6 | 65 | -15 | 10 | 10 | 6 | 1121 | 1121 | 12 | 14 | 6 | 68 | -49 |
| 6 | 0 | 6 | 629 | -630 | 13 | 3 | 6 | 27 | -1 | 20 | 6 | 6 | 71 | 74 | 12 | 10 | 6 | 275 | 273 | 14 | 14 | 6 | 171 | 195 |
| 8 | 0 | 6 | 402 | -393 | 15 | 3 | 6 | 152 | -135 | 1 | 7 | 6 | 377 | -373 | 14 | 10 | 6 | 236 | -246 | 1 | 15 | 6 | 384 | -379 |
| 10 | 0 | 6 | 882 | -846 | 17 | 3 | 6 | 372 | -379 | 3 | 7 | 6 | 37 | 27 | 16 | 10 | 6 | 253 | -250 | 3 | 15 | 6 | 48 | 36 |
| 12 | 0 | 6 | 712 | -696 | 19 | 3 | 6 | 410 | 433 | 5 | 7 | 6 | 2278 | 2263 | 18 | 10 | 6 | 205 | 222 | 5 | 15 | 6 | 623 | 637 |
| 14 | 0 | 6 | 620 | 611 | 21 | 3 | 6 | 441 | -477 | 7 | 7 | 6 | 114 | 114 | 1 | 11 | 6 | 186 | -192 | 7 | 15 | 6 | 97 | -80 |
| 16 | 0 | 6 | 860 | -861 | 0 | 4 | 6 | 2179 | 2178 | 9 | 7 | 6 | 257 | -264 | 3 | 11 | 6 | 257 | -244 | 9 | 15 | 6 | 31 | -35 |
| 18 | 0 | 6 | 30 | -40 | 2 | 4 | 6 | 87 | 82 | 11 | 7 | 6 | 262 | -254 | 5 | 11 | 6 | 406 | 413 | 11 | 15 | 6 | 537 | -549 |
| 20 | 0 | 6 | 214 | -191 | 4 | 4 | 6 | 245 | -247 | 13 | 7 | 6 | 252 | 239 | 7 | 11 | 6 | 132 | -116 | 0 | 16 | 6 | 853 | 866 |
| 1 | 1 | 6 | 148 | -152 | 6 | 4 | 6 | 553 | 560 | 15 | 7 | 6 | 657 | 652 | 9 | 11 | 6 | 319 | 323 | 2 | 16 | 6 | 79 | 90 |
| 3 | 1 | 6 | 58 | -27 | 8 | 4 | 6 | 178 | 182 | 17 | 7 | 6 | 555 | 567 | 11 | 11 | 6 | 702 | -709 | 4 | 16 | 6 | 31 | 22 |
| 5 | 1 | 6 | 1566 | 1548 | 10 | 4 | 6 | 1248 | 1229 | 19 | 7 | 6 | 147 | -146 | 15 | 11 | 6 | 66 | 3 | 6 | 16 | 6 | 147 | -137 |
| 7 | 1 | 6 | 142 | -145 | 12 | 4 | 6 | 104 | 84 | 0 | 8 | 6 | 210 | 195 | 17 | 11 | 6 | 267 | 283 | 8 | 16 | 6 | 104 | 90 |
| 9 | 1 | 6 | 252 | -259 | 14 | 4 | 6 | 70 | 50 | 2 | 8 | 6 | 220 | -220 | 0 | 12 | 6 | 499 | 508 | 10 | 16 | 6 | 501 | 503 |
| 11 | 1 | 6 | 252 | 251 | 16 | 4 | 6 | 236 | 245 | 4 | 8 | 6 | 341 | 337 | 2 | 12 | 6 | 137 | -149 | 1 | 17 | 6 | 106 | 110 |
| 13 | 1 | 6 | 57 | -44 | 18 | 4 | 6 | 224 | 232 | 6 | 8 | 6 | 238 | -238 | 4 | 12 | 6 | 162 | -159 | 3 | 17 | 6 | 253 | -252 |
| 15 | 1 | 6 | 415 | 406 | 20 | 4 | 6 | 189 | 173 | 8 | 8 | 6 | 268 | -267 | 6 | 12 | 6 | 636 | -642 | 5 | 17 | 6 | 111 | -138 |

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|----|---|------|------|----|---|---|------|------|----|----|---|------|------|----|----|---|------|------|----|---|---|------|------|
| 7 | 17 | 6 | 130 | -152 | 4 | 4 | 7 | 97 | -84 | 17 | 7 | 7 | 388 | 392 | 2 | 12 | 7 | 184 | 198 | 1 | 1 | 8 | 173 | -167 |
| 0 | 18 | 6 | 339 | 352 | 6 | 4 | 7 | 171 | 171 | 0 | 8 | 7 | 617 | -599 | 4 | 12 | 7 | 241 | -221 | 3 | 1 | 8 | 87 | 81 |
| 2 | 18 | 6 | 31 | -15 | 8 | 4 | 7 | 92 | -88 | 2 | 8 | 7 | 50 | -34 | 6 | 12 | 7 | 127 | -140 | 5 | 1 | 8 | 338 | 327 |
| 4 | 18 | 6 | 94 | -73 | 10 | 4 | 7 | 517 | 499 | 4 | 8 | 7 | 71 | 68 | 8 | 12 | 7 | 55 | -7 | 7 | 1 | 8 | 226 | -209 |
| 1 | 1 | 7 | 90 | -76 | 12 | 4 | 7 | 346 | 347 | 6 | 8 | 7 | 312 | -294 | 10 | 12 | 7 | 78 | 66 | 9 | 1 | 8 | 474 | 460 |
| 3 | 1 | 7 | 142 | -138 | 14 | 4 | 7 | 121 | -95 | 8 | 8 | 7 | 28 | -35 | 12 | 12 | 7 | 103 | 103 | 11 | 1 | 8 | 535 | -528 |
| 5 | 1 | 7 | 126 | 115 | 16 | 4 | 7 | 63 | 19 | 10 | 8 | 7 | 284 | -267 | 14 | 12 | 7 | 102 | 84 | 13 | 1 | 8 | 126 | 113 |
| 7 | 1 | 7 | 248 | 240 | 18 | 4 | 7 | 63 | 56 | 12 | 8 | 7 | 287 | -294 | 1 | 13 | 7 | 198 | 203 | 15 | 1 | 8 | 53 | 10 |
| 9 | 1 | 7 | 78 | -67 | 1 | 5 | 7 | 58 | -23 | 14 | 8 | 7 | 190 | 184 | 3 | 13 | 7 | 159 | -161 | 17 | 1 | 8 | 150 | 157 |
| 11 | 1 | 7 | 578 | -567 | 3 | 5 | 7 | 62 | 52 | 16 | 8 | 7 | 167 | -153 | 5 | 13 | 7 | 212 | 230 | 0 | 2 | 8 | 46 | 11 |
| 13 | 1 | 7 | 178 | 172 | 5 | 5 | 7 | 71 | 64 | 1 | 9 | 7 | 262 | -263 | 7 | 13 | 7 | 31 | 51 | 2 | 2 | 8 | 118 | -104 |
| 15 | 1 | 7 | 255 | 247 | 7 | 5 | 7 | 430 | -424 | 3 | 9 | 7 | 113 | 111 | 9 | 13 | 7 | 92 | -94 | 4 | 2 | 8 | 157 | 161 |
| 17 | 1 | 7 | 162 | 165 | 9 | 5 | 7 | 137 | 127 | 5 | 9 | 7 | 193 | 170 | 11 | 13 | 7 | 275 | 303 | 6 | 2 | 8 | 428 | -413 |
| 19 | 1 | 7 | 291 | -302 | 11 | 5 | 7 | 64 | 42 | 7 | 9 | 7 | 112 | 124 | 0 | 14 | 7 | 202 | -205 | 8 | 2 | 8 | 29 | 36 |
| 0 | 2 | 7 | 615 | 600 | 13 | 5 | 7 | 246 | 235 | 9 | 9 | 7 | 50 | 17 | 2 | 14 | 7 | 30 | 9 | 10 | 2 | 8 | 160 | 156 |
| 2 | 2 | 7 | 324 | -309 | 15 | 5 | 7 | 241 | -251 | 11 | 9 | 7 | 455 | -468 | 4 | 14 | 7 | 150 | 156 | 12 | 2 | 8 | 246 | -250 |
| 4 | 2 | 7 | 95 | -67 | 17 | 5 | 7 | 128 | -131 | 13 | 9 | 7 | 75 | 70 | 6 | 14 | 7 | 87 | 107 | 14 | 2 | 8 | 272 | 276 |
| 6 | 2 | 7 | 468 | 458 | 19 | 5 | 7 | 68 | -5 | 15 | 9 | 7 | 165 | 165 | 8 | 14 | 7 | 119 | 109 | 16 | 2 | 8 | 500 | -513 |
| 8 | 2 | 7 | 223 | 219 | 0 | 6 | 7 | 224 | -229 | 0 | 10 | 7 | 588 | 587 | 10 | 14 | 7 | 204 | -209 | 1 | 3 | 8 | 33 | -28 |
| 10 | 2 | 7 | 128 | -127 | 2 | 6 | 7 | 132 | 129 | 2 | 10 | 7 | 338 | -344 | 1 | 15 | 7 | 138 | -120 | 3 | 3 | 8 | 168 | -156 |
| 12 | 2 | 7 | 327 | -322 | 4 | 6 | 7 | 201 | 201 | 4 | 10 | 7 | 104 | -87 | 3 | 15 | 7 | 181 | 185 | 5 | 3 | 8 | 1643 | 1619 |
| 14 | 2 | 7 | 141 | 146 | 6 | 6 | 7 | 700 | -681 | 6 | 10 | 7 | 174 | 177 | 5 | 15 | 7 | 126 | -151 | 7 | 3 | 8 | 38 | 8 |
| 16 | 2 | 7 | 470 | 478 | 8 | 6 | 7 | 210 | 214 | 8 | 10 | 7 | 54 | -68 | 7 | 15 | 7 | 121 | 118 | 9 | 3 | 8 | 215 | -207 |
| 18 | 2 | 7 | 97 | -85 | 10 | 6 | 7 | 83 | 78 | 10 | 10 | 7 | 141 | 143 | 9 | 15 | 7 | 33 | -35 | 11 | 3 | 8 | 29 | 12 |
| 1 | 3 | 7 | 255 | -244 | 12 | 6 | 7 | 182 | 175 | 12 | 10 | 7 | 78 | -44 | 0 | 16 | 7 | 142 | 152 | 13 | 3 | 8 | 188 | 180 |
| 3 | 3 | 7 | 35 | -3 | 14 | 6 | 7 | 57 | -21 | 14 | 10 | 7 | 292 | -310 | 2 | 16 | 7 | 59 | 7 | 15 | 3 | 8 | 490 | 496 |
| 5 | 3 | 7 | 403 | -396 | 16 | 6 | 7 | 576 | -593 | 16 | 10 | 7 | 207 | 235 | 4 | 16 | 7 | 145 | 163 | 17 | 3 | 8 | 355 | 368 |
| 7 | 3 | 7 | 298 | 293 | 18 | 6 | 7 | 226 | 229 | 1 | 11 | 7 | 80 | 75 | 6 | 16 | 7 | 583 | 613 | 0 | 4 | 8 | 155 | 148 |
| 9 | 3 | 7 | 116 | 114 | 1 | 7 | 7 | 115 | 113 | 3 | 11 | 7 | 29 | -34 | 0 | 0 | 8 | 2299 | 2276 | 2 | 4 | 8 | 292 | -280 |
| 11 | 3 | 7 | 804 | -778 | 3 | 7 | 7 | 134 | -125 | 5 | 11 | 7 | 526 | -526 | 2 | 0 | 8 | 94 | -74 | 4 | 4 | 8 | 113 | 98 |
| 13 | 3 | 7 | 29 | 51 | 5 | 7 | 7 | 903 | 885 | 7 | 11 | 7 | 104 | -104 | 4 | 0 | 8 | 88 | -68 | 6 | 4 | 8 | 643 | -635 |
| 15 | 3 | 7 | 125 | 122 | 7 | 7 | 7 | 128 | -93 | 9 | 11 | 7 | 162 | 181 | 6 | 0 | 8 | 507 | -482 | 8 | 4 | 8 | 29 | 22 |
| 17 | 3 | 7 | 155 | -151 | 9 | 7 | 7 | 163 | -171 | 11 | 11 | 7 | 102 | -95 | 8 | 0 | 8 | 123 | 118 | 10 | 4 | 8 | 191 | -177 |
| 19 | 3 | 7 | 76 | 81 | 11 | 7 | 7 | 499 | 497 | 13 | 11 | 7 | 58 | 4 | 10 | 0 | 8 | 1404 | 1378 | 12 | 4 | 8 | 66 | -51 |
| 0 | 4 | 7 | 1037 | 1014 | 13 | 7 | 7 | 95 | -92 | 15 | 11 | 7 | 145 | -174 | 12 | 0 | 8 | 484 | 475 | 14 | 4 | 8 | 335 | 344 |
| 2 | 4 | 7 | 32 | -10 | 15 | 7 | 7 | 108 | 86 | 0 | 12 | 7 | 34 | 19 | 14 | 0 | 8 | 334 | -341 | 16 | 4 | 8 | 628 | -648 |

| H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC | H | K | L | 10FO | 10FC |
|----|---|---|------|------|----|----|---|------|------|----|---|---|------|------|----|----|----|------|-------|----|---|----|------|------|
| 1 | 5 | 8 | 427 | -423 | 7 | 9 | 8 | 91 | 87 | 9 | 1 | 9 | 75 | 77 | 8 | 6 | 9 | 133 | -128 | 8 | 0 | 10 | 187 | -175 |
| 3 | 5 | 8 | 125 | -126 | 9 | 9 | 8 | 40 | 13 | 11 | 1 | 9 | 117 | 139 | 10 | 6 | 9 | 73 | -70 | 10 | 0 | 10 | 426 | -432 |
| 5 | 5 | 8 | 403 | 390 | 11 | 9 | 8 | 132 | 140 | 13 | 1 | 9 | 45 | -63 | 12 | 6 | 9 | 123 | -124 | 1 | 1 | 10 | 63 | -14 |
| 7 | 5 | 8 | 77 | -24 | 13 | 9 | 8 | 59 | -76 | 0 | 2 | 9 | 176 | 140 | 1 | 7 | 9 | 64 | -8 | 3 | 1 | 10 | 74 | 13 |
| 9 | 5 | 8 | 30 | 5 | 0 | 10 | 8 | 790 | -808 | 2 | 2 | 9 | 115 | 112 | 3 | 7 | 9 | 85 | 74 | 5 | 1 | 10 | 832 | 833 |
| 11 | 5 | 8 | 868 | -864 | 2 | 10 | 8 | 76 | 1 | 4 | 2 | 9 | 29 | -26 | 5 | 7 | 9 | 317 | -316 | 7 | 1 | 10 | 97 | -89 |
| 13 | 5 | 8 | 140 | 152 | 4 | 10 | 8 | 284 | 288 | 6 | 2 | 9 | 78 | 46 | 7 | 7 | 9 | 30 | -30 | 9 | 1 | 10 | 106 | -119 |
| 15 | 5 | 8 | 188 | 196 | 6 | 10 | 8 | 337 | -339 | 8 | 2 | 9 | 176 | -172 | 9 | 7 | 9 | 83 | 73 | 0 | 2 | 10 | 585 | 593 |
| 0 | 6 | 8 | 1552 | 1540 | 8 | 10 | 8 | 162 | -179 | 10 | 2 | 9 | 217 | 205 | 11 | 7 | 9 | 71 | -15 | 2 | 2 | 10 | 74 | -47 |
| 2 | 6 | 8 | 109 | -119 | 10 | 10 | 8 | 204 | -208 | 12 | 2 | 9 | 285 | 283 | 0 | 8 | 9 | 73 | -19 | 4 | 2 | 10 | 56 | -26 |
| 4 | 6 | 8 | 167 | -156 | 12 | 10 | 8 | 191 | -198 | 14 | 2 | 9 | 100 | -102 | 2 | 8 | 9 | 99 | 101 | 6 | 2 | 10 | 228 | -232 |
| 6 | 6 | 8 | 421 | 419 | 1 | 11 | 8 | 80 | -29 | 1 | 3 | 9 | 73 | 45 | 4 | 8 | 9 | 47 | -4 | 8 | 2 | 10 | 79 | -54 |
| 8 | 6 | 8 | 67 | -54 | 3 | 11 | 8 | 229 | 230 | 3 | 3 | 9 | 59 | 6 | 6 | 8 | 9 | 71 | -99 | 10 | 2 | 10 | 358 | 367 |
| 10 | 6 | 8 | 769 | 767 | 5 | 11 | 8 | 646 | 659 | 5 | 3 | 9 | 140 | -125 | 8 | 8 | 9 | 67 | 46 | 1 | 3 | 10 | 109 | -117 |
| 12 | 6 | 8 | 150 | 142 | 7 | 11 | 8 | 113 | -105 | 7 | 3 | 9 | 114 | -109 | 10 | 8 | 9 | 113 | 86 | 3 | 3 | 10 | 79 | -11 |
| 14 | 6 | 8 | 49 | 16 | 9 | 11 | 8 | 41 | -29 | 9 | 3 | 9 | 53 | -38 | 1 | 9 | 9 | 288 | 284 | 5 | 3 | 10 | 413 | -417 |
| 16 | 6 | 8 | 136 | 150 | 11 | 11 | 8 | 298 | 316 | 11 | 3 | 9 | 128 | 127 | 3 | 9 | 9 | 83 | -83 | 7 | 3 | 10 | 73 | -25 |
| 1 | 7 | 8 | 64 | 7 | 0 | 12 | 8 | 272 | 278 | 13 | 3 | 9 | 85 | 52 | 5 | 9 | 9 | 125 | 133 | 9 | 3 | 10 | 304 | 313 |
| 3 | 7 | 8 | 211 | -204 | 2 | 12 | 8 | 49 | -46 | 0 | 4 | 9 | 343 | -332 | 7 | 9 | 9 | 96 | -108 | 0 | 4 | 10 | 1129 | 1125 |
| 5 | 7 | 8 | 719 | -725 | 4 | 12 | 8 | 156 | 152 | 2 | 4 | 9 | 50 | -32 | 9 | 9 | 9 | 32 | -16 | 2 | 4 | 10 | 60 | -10 |
| 7 | 7 | 8 | 185 | -191 | 6 | 12 | 8 | 67 | -4 | 4 | 4 | 9 | 69 | 47 | 0 | 10 | 9 | 501 | -510 | 4 | 4 | 10 | 169 | -158 |
| 9 | 7 | 8 | 376 | 376 | 8 | 12 | 8 | 137 | -136 | 6 | 4 | 9 | 143 | 137 | 2 | 10 | 9 | 214 | 212 | 6 | 4 | 10 | 347 | 356 |
| 11 | 7 | 8 | 538 | -547 | 10 | 12 | 8 | 231 | 240 | 8 | 4 | 9 | 53 | 46 | 4 | 10 | 9 | 30 | 6 | 8 | 4 | 10 | 95 | 75 |
| 13 | 7 | 8 | 71 | -66 | 1 | 13 | 8 | 107 | -118 | 10 | 4 | 9 | 248 | -244 | 6 | 10 | 9 | 224 | -228 | 1 | 5 | 10 | 112 | 97 |
| 15 | 7 | 8 | 153 | -157 | 3 | 13 | 8 | 92 | -84 | 12 | 4 | 9 | 179 | -181 | 8 | 10 | 9 | 58 | 37 | 3 | 5 | 10 | 144 | -147 |
| 0 | 8 | 8 | 811 | 809 | 5 | 13 | 8 | 31 | -56 | 1 | 5 | 9 | 40 | -32 | 1 | 11 | 9 | 32 | -23 | 5 | 5 | 10 | 85 | 71 |
| 2 | 8 | 8 | 88 | 47 | 7 | 13 | 8 | 80 | -43 | 3 | 5 | 9 | 55 | -35 | 3 | 11 | 9 | 84 | 36 | 7 | 5 | 10 | 97 | 96 |
| 4 | 8 | 8 | 85 | -85 | 0 | 14 | 8 | 769 | 795 | 5 | 5 | 9 | 73 | -89 | 5 | 11 | 9 | 327 | 331 | 0 | 6 | 10 | 252 | 247 |
| 6 | 8 | 8 | 339 | -328 | 2 | 14 | 8 | 47 | 39 | 7 | 5 | 9 | 257 | 266 | 7 | 11 | 9 | 157 | 153 | 2 | 6 | 10 | 96 | -77 |
| 8 | 8 | 8 | 205 | 204 | 4 | 14 | 8 | 237 | -266 | 9 | 5 | 9 | 107 | -104 | 0 | 12 | 9 | 260 | 274 | 4 | 6 | 10 | 61 | 50 |
| 10 | 8 | 8 | 518 | 515 | 6 | 14 | 8 | 75 | -82 | 11 | 5 | 9 | 62 | -72 | 2 | 12 | 9 | 212 | -225 | 6 | 6 | 10 | 262 | -274 |
| 12 | 8 | 8 | 63 | 25 | 1 | 15 | 8 | 202 | 200 | 13 | 5 | 9 | 178 | -181 | 4 | 12 | 9 | 92 | 81 | 1 | 7 | 10 | 208 | -219 |
| 14 | 8 | 8 | 60 | 14 | 1 | 1 | 9 | 63 | -12 | 0 | 6 | 9 | 102 | -69 | 0 | 0 | 10 | 1241 | -1248 | 3 | 7 | 10 | 39 | -5 |
| 1 | 9 | 8 | 63 | 4 | 3 | 1 | 9 | 83 | 92 | 2 | 6 | 9 | 59 | -14 | 2 | 0 | 10 | 73 | -11 | 5 | 7 | 10 | 917 | 943 |
| 3 | 9 | 8 | 34 | -1 | 5 | 1 | 9 | 331 | -316 | 4 | 6 | 9 | 44 | -59 | 4 | 0 | 10 | 250 | 248 | 0 | 8 | 10 | 125 | 116 |
| 5 | 9 | 8 | 1037 | 1045 | 7 | 1 | 9 | 97 | -101 | 6 | 6 | 9 | 327 | 330 | 6 | 0 | 10 | 446 | -438 | 2 | 8 | 10 | 73 | -82 |

OBSERVED AND CALCULATED STRUCTURE FACTORS FOR B-FREE KORNERUPINE 9365, C MCM

PAGE 11

H K L 10FO 10FC H K L 10FO 10FC H K L 10FO 10FC H K L 10FO 10FC H K L 10FO 10FC

4 8 10 191 195