

| dim | generator | symbol | nb sec. c. | dim | generator       | symbol | nb sec. c. | dim | generator             |
|-----|-----------|--------|------------|-----|-----------------|--------|------------|-----|-----------------------|
| 1   | $L_1$     | 40,42  | 450        | 3   | $L_1 D_4^2$     | 48,242 | 2738       | 4   | $L_2^2 D_4^3$         |
| 1   | $L_2$     | 42,96  | 777        | 3   | $L_2 D_4^2$     | 42,168 | 2047       | 4   | $L_1 L_2 D_4^2$       |
| 1   | $L_3$     | 48,180 | 670        | 3   | $L_3 D_4^2$     | 52,344 | 1344       | 4   | $L_1 L_3 D_4^2$       |
| 1   | $L_4$     | 50,192 | 112        | 3   | $L_7 D_4^2$     | 56,462 | 484        | 4   | $L_2 L_3 D_4^2$       |
| 1   | $L_5$     | 50,282 | 352        | 3   | $L_1 L_2 D_4$   | 48,242 | 5029       | 4   | $L_3 L_7 D_4^2$       |
| 1   | $L_6$     | 54,342 | 324        | 3   | $L_1 L_3 D_4$   | 48,254 | 2436       | 4   | $L_1 L_2 L_3 D_4$     |
| 1   | $L_7$     | 54,366 | 220        | 3   | $L_1 L_5 D_4$   | 50,328 | 650        | 4   | $L_1 L_2 L_5 D_4$     |
| 2   | $D_4^2$   | 42,132 | 1067       | 3   | $L_2 L_3 D_4$   | 52,346 | 2344       | 4   | $L_1 L_3^2 L_7 D_4$   |
| 2   | $L_1 D_4$ | 40,122 | 1814       | 3   | $L_2 L_5 D_4$   | 54,402 | 650        | 4   | $L_1 L_3 L_5 D_4$     |
| 2   | $L_2 D_4$ | 42,132 | 1825       | 3   | $L_3 L_5 D_4$   | 50,334 | 553        | 4   | $L_2 L_3 L_5 D_4$     |
| 2   | $L_3 D_4$ | 48,246 | 1428       | 3   | $L_3 L_7 D_4$   | 54,410 | 1160       | 4   | $L_1 L_2 L_3 L_5$     |
| 2   | $L_5 D_4$ | 50,312 | 352        | 3   | $L_1 L_2 L_3$   | 52,316 | 2773       | 4   | $L_1 L_2 L_3 L_6$     |
| 2   | $L_7 D_4$ | 54,402 | 484        | 3   | $L_1 L_2 L_5$   | 54,392 | 1256       | 4   | $L_1 L_2 L_5 L_6$     |
| 2   | $L_1 L_2$ | 48,202 | 2385       | 3   | $L_1 L_2 L_6$   | 54,400 | 758        | 4   | $L_1 L_3 L_4 L_5$     |
| 2   | $L_1 L_3$ | 48,188 | 1058       | 3   | $L_1 L_3^2 L_7$ | 54,382 | 456        | 4   | $L_1 L_3 L_4 L_6$     |
| 2   | $L_1 L_4$ | 50,232 | 333        | 3   | $L_1 L_3 L_4$   | 50,288 | 516        | 4   | $L_1 L_3 L_5 L_6$     |
| 2   | $L_1 L_5$ | 50,298 | 650        | 3   | $L_1 L_3 L_5$   | 50,312 | 696        | 4   | $L_1 L_4 L_5 L_6$     |
| 2   | $L_1 L_6$ | 54,366 | 758        | 3   | $L_1 L_3 L_6$   | 54,394 | 856        | 4   | $L_2 L_3 L_5 L_6$     |
| 2   | $L_2 L_3$ | 52,308 | 1638       | 3   | $L_1 L_4 L_5$   | 50,346 | 630        | 4   | $L_3 L_4 L_5 L_6$     |
| 2   | $L_2 L_5$ | 54,376 | 650        | 3   | $L_1 L_4 L_6$   | 54,388 | 734        | 5   | $L_2^5 D_4^5$         |
| 2   | $L_2 L_6$ | 54,376 | 324        | 3   | $L_1 L_5 L_6$   | 54,404 | 928        | 5   | $L_1 L_2^2 D_4^3$     |
| 2   | $L_3 L_4$ | 50,280 | 318        | 3   | $L_2 L_3 L_5$   | 54,398 | 1092       | 5   | $L_1 L_2 L_3 D_4^2$   |
| 2   | $L_3 L_5$ | 50,304 | 553        | 3   | $L_2 L_3 L_6$   | 54,420 | 582        | 5   | $L_1 L_3^2 L_7 D_4$   |
| 2   | $L_3 L_6$ | 54,386 | 582        | 3   | $L_2 L_5 L_6$   | 54,422 | 553        | 5   | $L_1 L_2 L_3 L_5 D_4$ |
| 2   | $L_3 L_7$ | 54,374 | 490        | 3   | $L_3 L_4 L_5$   | 50,352 | 553        | 5   | $L_1 L_2 L_3 L_5 L_6$ |
| 2   | $L_4 L_5$ | 50,330 | 348        | 3   | $L_3 L_4 L_6$   | 54,408 | 531        | 5   | $L_1 L_3 L_4 L_5 L_6$ |
| 2   | $L_4 L_6$ | 54,364 | 318        | 3   | $L_3 L_5 L_6$   | 54,410 | 628        |     |                       |
| 2   | $L_5 L_6$ | 54,388 | 553        | 3   | $L_4 L_5 L_6$   | 54,410 | 553        |     |                       |

| dim | generator                   | symbol | nb sec. c. | nb cont. d. | dim | generator                         | symbol | nb sec. |
|-----|-----------------------------|--------|------------|-------------|-----|-----------------------------------|--------|---------|
| 3   | $L_1^2 L_3 p_1$             | 48,196 | 566        | 2047        | 7   | $L_3 L_4 L_6^2 p_1^4$             | 58,536 | 27      |
| 4   | $L_1 L_3 L_5 p_1^2$         | 50,320 | 205        | 3988        | 7   | $L_1^3 L_3^3 L_5 D_4 p_1^3$       | 50,378 | 73      |
| 4   | $L_1^2 L_3 D_4 p_1$         | 48,262 | 1240       | 1074        | 7   | $L_1^3 L_2 L_3^3 L_5 p_1^3$       | 54,442 | 134     |
| 4   | $L_1^3 L_3^3 L_7 p_1$       | 54,390 | 174        | 665         | 7   | $L_1^3 L_3^3 L_4 L_5 p_1^3$       | 50,396 | 73      |
| 4   | $L_1^2 L_2 L_3 p_1$         | 52,324 | 1423       | 1092        | 7   | $L_1^3 L_3^3 L_5 L_6 p_1^3$       | 54,454 | 33      |
| 4   | $L_1^2 L_3 L_4 p_1$         | 50,296 | 274        | 1256        | 7   | $L_1^2 L_2 L_3 L_5 L_6 p_1^3$     | 54,474 | 164     |
| 4   | $L_1^2 L_3 L_5 p_1$         | 50,320 | 205        | 615         | 7   | $L_1^2 L_3^2 L_5^2 L_6 p_1^3$     | 54,464 | 74      |
| 4   | $L_1^2 L_3 L_6 p_1$         | 54,402 | 358        | 4100        | 7   | $L_1^2 L_3^2 L_5^2 L_6 p_1^3$     | 54,464 | 148     |
| 4   | $L_1 L_3^2 L_5 p_1$         | 50,326 | 182        | 3503        | 7   | $L_1^2 L_3 L_4 L_5 L_6 p_1^3$     | 54,462 | 150     |
| 4   | $L_3 L_5^2 L_6 p_1$         | 54,434 | 203        | 3999        | 7   | $L_1 L_2 L_3 L_5^2 L_6 p_1^3$     | 54,484 | 121     |
| 5   | $L_1 L_5 L_6 p_1^3$         | 54,412 | 97         | 615         | 7   | $L_1 L_3^3 L_5^3 L_6 p_1^3$       | 54,480 | 22      |
| 5   | $L_1 L_3 L_5 D_4 p_1^2$     | 50,350 | 205        | 1188        | 7   | $L_1 L_3 L_4 L_5^2 L_6 p_1^3$     | 54,472 | 121     |
| 5   | $L_1^2 L_3^2 L_5 p_1^2$     | 50,334 | 298        | 5895        | 7   | $L_1^2 L_2 L_3^2 L_5 D_4 p_1^2$   | 54,454 | 606     |
| 5   | $L_1 L_2 L_3 L_5 p_1^2$     | 54,414 | 396        | 492         | 7   | $L_1^2 L_2 L_3^2 L_5 L_6 p_1^2$   | 54,474 | 200     |
| 5   | $L_1 L_3 L_4 L_5 p_1^2$     | 50,368 | 197        | 492         | 7   | $L_1^2 L_2 L_3 L_5^2 L_6 p_1^2$   | 54,484 | 34      |
| 5   | $L_1 L_3 L_5 L_6 p_1^2$     | 54,426 | 164        | 689         | 7   | $L_1^2 L_3^2 L_4 L_5 L_6 p_1^2$   | 54,462 | 200     |
| 5   | $L_1 L_3 L_5 L_6 p_1^2$     | 54,432 | 164        | 1815        | 7   | $L_1^2 L_3 L_4 L_5^2 L_6 p_1^2$   | 54,472 | 34      |
| 5   | $L_1^2 L_3 D_4^2 p_1$       | 52,360 | 1168       | 3279        | 7   | $L_1 L_2 L_3^2 L_5^2 L_6 p_1^2$   | 54,490 | 148     |
| 5   | $L_1^3 L_3^3 L_7 D_4 p_1$   | 54,426 | 396        | 100         | 7   | $L_1 L_2^3 L_4 L_5^2 L_6 p_1^2$   | 54,478 | 148     |
| 5   | $L_1^2 L_2 L_3 D_4 p_1$     | 52,362 | 2060       | 1392        | 8   | $L_1^2 L_3^2 L_5^2 L_6 p_1^5$     | 54,478 | 34      |
| 5   | $L_1^2 L_3 L_5 D_4 p_1$     | 50,350 | 205        | 553         | 8   | $L_1^3 L_3^3 L_5^2 L_6 p_1^4$     | 54,478 | 47      |
| 5   | $L_1 L_3^2 L_5 D_4 p_1$     | 50,356 | 182        | 1092        | 8   | $L_1^2 L_3^3 L_5^3 L_6 p_1^4$     | 54,488 | 38      |
| 5   | $L_1^2 L_2 L_3 L_5 p_1$     | 54,414 | 396        | 958         | 8   | $L_1^2 L_3^3 L_5^2 L_6 p_1^4$     | 54,478 | 43      |
| 5   | $L_1^2 L_2 L_3 L_6 p_1$     | 54,436 | 358        | 480         | 8   | $L_1 L_2 L_3^2 L_5 L_6 p_1^4$     | 54,488 | 64      |
| 5   | $L_1^2 L_3 L_4 L_5 p_1$     | 50,368 | 205        | 1490        | 8   | $L_1 L_2^3 L_4 L_5 L_6 p_1^4$     | 54,476 | 57      |
| 5   | $L_1^2 L_3 L_4 L_6 p_1$     | 54,424 | 327        | 990         | 8   | $L_1 L_3 L_4 L_6^2 p_1^4$         | 58,544 | 28      |
| 5   | $L_1^2 L_3 L_5 L_6 p_1$     | 54,426 | 228        | 291         | 8   | $L_1^3 L_2 L_3^3 L_5 D_4 p_1^3$   | 54,468 | 134     |
| 5   | $L_1 L_2 L_3^2 L_5 p_1$     | 54,420 | 352        | 546         | 8   | $L_1^3 L_2 L_3^3 L_5 L_6 p_1^3$   | 54,488 | 33      |
| 5   | $L_1 L_3^2 L_4 L_5 p_1$     | 50,374 | 182        | 800         | 8   | $L_1^3 L_3^3 L_4 L_5 L_6 p_1^3$   | 54,476 | 33      |
| 5   | $L_1 L_3^2 L_5 L_6 p_1$     | 54,432 | 128        | 628         | 8   | $L_1^2 L_2 L_3^2 L_5^2 L_6 p_1^3$ | 54,498 | 74      |
| 5   | $L_1 L_3 L_5^2 L_6 p_1$     | 54,442 | 178        | 328         | 8   | $L_1^2 L_2 L_3^2 L_5^2 L_6 p_1^3$ | 54,498 | 148     |
| 5   | $L_2 L_3 L_5^2 L_6 p_1$     | 54,468 | 203        | 474         | 8   | $L_1^2 L_3^2 L_4 L_5^2 L_6 p_1^3$ | 54,486 | 74      |
| 5   | $L_3 L_4 L_5^2 L_6 p_1$     | 54,456 | 203        | 591         | 8   | $L_1^2 L_3^2 L_4 L_5^2 L_6 p_1^3$ | 54,486 | 148     |
| 6   | $L_3^2 L_6 p_1^4$           | 54,430 | 34         | 92          | 8   | $L_1 L_2 L_3^3 L_5^3 L_6 p_1^3$   | 54,514 | 22      |
| 6   | $L_1^3 L_3^3 L_5 p_1^3$     | 50,348 | 73         | 1188        | 8   | $L_1 L_3^3 L_4 L_5^3 L_6 p_1^3$   | 54,502 | 22      |
| 6   | $L_1^2 L_3 L_5 L_6 p_1^3$   | 54,440 | 164        | 492         | 9   | $L_1 L_4 L_5 L_6 p_1^6$           | 54,502 | 16      |
| 6   | $L_1 L_2 L_5 L_6 p_1^3$     | 54,446 | 97         | 492         | 9   | $L_1^3 L_3^4 L_5^3 L_6 p_1^5$     | 54,502 | 38      |
| 6   | $L_1 L_3 L_5^2 L_6 p_1^3$   | 54,450 | 121        | 2619        | 9   | $L_1^2 L_2 L_3^2 L_5^2 L_6 p_1^5$ | 54,512 | 34      |
| 6   | $L_1 L_4 L_5 L_6 p_1^3$     | 54,434 | 93         | 1092        | 9   | $L_1^2 L_2 L_3^2 L_5^2 L_6 p_1^5$ | 54,500 | 30      |
| 6   | $L_1^2 L_3^2 L_5 D_4 p_1^2$ | 50,364 | 298        | 958         | 9   | $L_1^2 L_3 L_4 L_6^2 p_1^5$       | 58,552 | 11      |
| 6   | $L_1 L_2 L_3 L_5 D_4 p_1^2$ | 54,440 | 396        | 1490        | 9   | $L_1^3 L_2 L_3^3 L_5^2 L_6 p_1^4$ | 54,512 | 47      |
| 6   | $L_1^2 L_2 L_3^2 L_5 p_1^2$ | 54,428 | 606        | 3030        | 9   | $L_1^3 L_3^3 L_4 L_5^2 L_6 p_1^4$ | 54,500 | 47      |
| 6   | $L_1^2 L_3^2 L_4 L_5 p_1^2$ | 50,382 | 298        | 639         | 9   | $L_1^2 L_2 L_3^3 L_5^3 L_6 p_1^4$ | 54,522 | 38      |
| 6   | $L_1^2 L_3^2 L_5 L_6 p_1^2$ | 54,440 | 200        | 291         | 9   | $L_1^2 L_2 L_3^3 L_5^2 L_6 p_1^4$ | 54,512 | 43      |
| 6   | $L_1^2 L_3 L_5^2 L_6 p_1^2$ | 54,450 | 34         | 820         | 9   | $L_1^2 L_3^3 L_4 L_5^3 L_6 p_1^4$ | 54,510 | 38      |