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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 0 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 0 | 1 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 | 0 | 1 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 0 | 1 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | 1 | 2 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 5 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 7 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 6 | 6 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 5 | 5 | 6 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 1 | 2 | 5 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 5 | 5 | 6 | 7 | 6 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 5 | 5 | 6 | 7 | 6 | 4 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 7 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 6 | 4 | 5 | 8 | 7 | 3 | 7 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 8 | 8 | 9 | 10 | 9 | 7 | 9 | 9 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34 | 4 | 5 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 7 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 | 4 | 5 | 4 | 4 | 6 | 6 | 7 | 8 | 7 | 5 | 7 | 7 | 8 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 | 5 | 5 | 7 | 7 | 8 | 9 | 8 | 6 | 8 | 8 | 9 | 3 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 38 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 8 | 4 | 7 | 10 | 9 | 5 | 9 | 9 | 8 | 12 | 10 | 11 | 8 | 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 42 | 7 | 8 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 10 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 7 | 7 | 8 | 7 | 7 | 9 | 5 | 8 | 11 | 10 | 6 | 10 | 10 | 9 | 13 | 11 | 12 | 9 | 9 | 3 | 11 | 9 | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43 | 6 | 7 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 9 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 6 | 6 | 7 | 6 | 6 | 8 | 4 | 7 | 10 | 9 | 5 | 9 | 9 | 8 | 12 | 10 | 11 | 8 | 8 | 2 | 10 | 8 | 8 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 45 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 | 5 | 5 | 7 | 3 | 6 | 9 | 8 | 4 | 8 | 8 | 7 | 11 | 9 | 10 | 7 | 7 | 1 | 9 | 7 | 7 | 2 | 1 | 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 46 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 4 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 3 | 3 | 4 | 5 | 4 | 2 | 4 | 4 | 5 | 7 | 3 | 6 | 5 | 3 | 7 | 3 | 1 | 1 | 8 | 7 | 1 | 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 4 | 5 | 6 | 5 | 3 | 5 | 5 | 6 | 8 | 4 | 7 | 6 | 4 | 8 | 4 | 0 | 0 | 9 | 8 | 0 | 7 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 48 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 4 | 5 | 6 | 5 | 3 | 5 | 5 | 6 | 8 | 4 | 7 | 6 | 4 | 8 | 4 | 0 | 0 | 9 | 8 | 0 | 7 | 1 | 0 |  |  |  |  |  |  |  |  |  |  |  |  |
| 49 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 | 5 | 5 | 7 | 7 | 8 | 9 | 8 | 6 | 8 | 8 | 9 | 11 | 7 | 10 | 9 | 7 | 11 | 7 | 3 | 3 | 12 | 11 | 3 | 10 | 4 | 3 | 3 |  |  |  |  |  |  |  |  |  |  |  |
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| 52 | 5 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 8 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 6 | 5 | 5 | 7 | 5 | 6 | 9 | 8 | 4 | 8 | 8 | 7 | 11 | 9 | 10 | 3 | 7 | 9 | 9 | 7 | 7 | 10 | 9 | 7 | 8 | 6 | 7 | 7 | 10 | 7 | 7 |  |  |  |  |  |  |  |  |
| 53 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 4 | 5 | 6 | 5 | 3 | 5 | 5 | 6 | 8 | 4 | 7 | 6 | 4 | 8 | 4 | 0 | 0 | 9 | 8 | 0 | 7 | 1 | 0 | 0 | 3 | 0 | 0 | 7 |  |  |  |  |  |  |  |
| 54 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 4 | 5 | 6 | 5 | 3 | 5 | 5 | 6 | 8 | 4 | 7 | 6 | 4 | 8 | 4 | 0 | 0 | 9 | 8 | 0 | 7 | 1 | 0 | 0 | 3 | 0 | 0 | 7 | 0 |  |  |  |  |  |  |
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| 57 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 5 | 5 | 6 | 7 | 6 | 4 | 6 | 6 | 7 | 9 | 5 | 8 | 7 | 5 | 9 | 5 | 3 | 3 | 10 | 9 | 3 | 8 | 2 | 3 | 3 | 6 | 3 | 3 | 8 | 3 | 3 | 3 | 2 |  |  |  |
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| 59 | 3 | 4 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 3 | 5 | 5 | 6 | 7 | 6 | 4 | 6 | 6 | 7 | 9 | 5 | 8 | 7 | 5 | 9 | 5 | 1 | 1 | 10 | 9 | 1 | 8 | 2 | 1 | 1 | 4 | 1 | 1 | 8 | 1 | 1 | 1 | 2 | 4 | 1 |  |
| 60 | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 2 | 4 | 4 | 5 | 6 | 5 | 3 | 5 | 5 | 6 | 8 | 4 | 7 | 6 | 4 | 8 | 4 | 0 | 0 | 9 | 8 | 0 | 7 | 1 | 0 | 0 | 3 | 0 | 0 | 7 | 0 | 0 | 0 | 1 | 3 | 0 | 1 |

|  |  |
| --- | --- |
| **Key** | |
| **Isolate** | **Number** |
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| 2010AA-144 | 3 |
| 2010AA-145 | 4 |
| 2010AA-146 | 5 |
| 2010AA-147 | 6 |
| 2010AA-148 | 7 |
| 2010AA-150 | 8 |
| 2010AA-151 | 9 |
| 2010EL-1786 | 10 |
| 2010EL-1787 | 11 |
| 2010EL-1788 | 12 |
| 2010EL-1791 | 13 |
| 2010EL-1795 | 14 |
| 2010EL-1796 | 15 |
| 2010EL-1799 | 16 |
| 2010EL-1801 | 17 |
| 2010EL-1961 | 18 |
| 2010EL-2010H | 19 |
| 2010EL-2010N | 20 |
| 2010EL-2026 | 21 |
| 2011EL-1089 | 22 |
| 2011EL-1133 | 23 |
| 2011EL-1300 | 24 |
| 2011EL-1818 | 25 |
| 2011EL-1841 | 26 |
| 2011EL-2314H | 27 |
| 2011EL-2315 | 28 |
| 2011EL-2316 | 29 |
| 2011EL-2317 | 30 |
| 2011EL-2318 | 31 |
| 2011EL-2319 | 32 |
| 2011EL-2320 | 33 |
| 2011EL-2321 | 34 |
| 2011EL-2322 | 35 |
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| 2012EL-1410 | 37 |
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