

ESU LokSound Select #93423 Sound ON with Track Power - InterMountain OEM EMD 567 16 Cyl Non-Turbo

Mapping Row Numbers, CV 32 Values, and Control CV Numbers are **STATIC** to each other!

**ALL of the CONDITIONS for a row must be met for any of the items tied to physical outputs and/or logic and/or sound items to occur!**

If you want **ADD** a row, you **MUST** shift **ONLY** the Default Mapping Row Function Key value DOWN!

If you want to **DELETE** a row, you **MUST** shift **ONLY** the Default Mapping Row Function Key value UP!

| Default Values are highlighted in |                                  |       |            | CONDITIONS                             |  |         |         |                 |                  |                 |                  |       |            | CONDITIONS      |                  |                 |                  |                 |                  |                 |                  |       |            | CONDITIONS      |                  |                 |                  |                 |                  |                 |                  |       |            |                  |                   |                  |                   |                  |                   |                  |
|-----------------------------------|----------------------------------|-------|------------|--|--|---------|---------|-----------------|------------------|-----------------|------------------|-------|------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-------|------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-------|------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|
| Mapping Row                       | Default Mapping Row Function Key | CV 32 | Control CV | Drive (Requires the Loco to be Moving) | Stop (Requires the Loco to be Stopped) | Forward | Reverse | Function 0 = ON | Function 0 = OFF | Function 1 = ON | Function 1 = OFF | CV 32 | Control CV | Function 2 = ON | Function 2 = OFF | Function 3 = ON | Function 3 = OFF | Function 4 = ON | Function 4 = OFF | Function 5 = ON | Function 5 = OFF | CV 32 | Control CV | Function 6 = ON | Function 6 = OFF | Function 7 = ON | Function 7 = OFF | Function 8 = ON | Function 8 = OFF | Function 9 = ON | Function 9 = OFF | CV 32 | Control CV | Function 10 = ON | Function 10 = OFF | Function 11 = ON | Function 11 = OFF | Function 12 = ON | Function 12 = OFF | Function 13 = ON |
| 1                                 | Forward, F0                      | 2     | 257        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 258        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 259        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 260        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 2                                 | F1                               | 2     | 273        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 274        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 275        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 276        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 3                                 | F2                               | 2     | 289        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 290        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 291        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 292        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 4                                 | F3                               | 2     | 305        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 306        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 307        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 308        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 5                                 | Drive, F4                        | 2     | 321        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 322        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 323        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 324        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 6                                 | F5                               | 2     | 337        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 338        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 339        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 340        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 7                                 | Forward, F6                      | 2     | 353        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 354        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 355        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 356        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 8                                 | F7                               | 2     | 369        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 370        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 371        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 372        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 9                                 | not F8                           | 2     | 385        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 386        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 387        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 388        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 10                                | F9                               | 2     | 401        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 402        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 403        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 404        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 11                                | F10                              | 2     | 417        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 418        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 419        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 420        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 12                                | F11                              | 2     | 433        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 434        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 435        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 436        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 13                                | F12, not F18                     | 2     | 449        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 450        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 451        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 452        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 14                                | F13                              | 2     | 465        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 466        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 467        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 468        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 15                                | F14                              | 2     | 481        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 482        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 483        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 484        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 16                                | F15                              | 2     | 497        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 2     | 498        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 499        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 2     | 500        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 17                                | F16                              | 3     | 257        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 258        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 259        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 260        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 18                                | not F17                          | 3     | 273        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 274        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 275        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 276        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 19                                | F18                              | 3     | 289        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 290        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 291        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 292        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 20                                | not F19                          | 3     | 305        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 306        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 307        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 308        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 21                                | F20*                             | 3     | 321        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 322        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 323        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 324        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 22                                | F21*                             | 3     | 337        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 338        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 339        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 340        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 23                                | F22*                             | 3     | 353        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 354        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 355        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 356        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 24                                | F23*                             | 3     | 369        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 370        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 371        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 372        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 25                                | F24*                             | 3     | 385        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 386        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 387        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 388        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 26                                | F25*                             | 3     | 401        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 402        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 403        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 404        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 27                                | F26*                             | 3     | 417        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 418        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 419        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 420        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 28                                | F27*                             | 3     | 433        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 434        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 435        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 436        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 29                                | F28*                             | 3     | 449        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 450        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 451        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 452        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 30                                | F28*                             | 3     | 465        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 466        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 467        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 468        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 31                                |                                  | 3     | 481        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 482        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 483        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 484        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 32                                |                                  | 3     | 497        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 3     | 498        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 499        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 3     | 500        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 33                                |                                  | 4     | 257        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 258        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 259        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 260        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 34                                |                                  | 4     | 273        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 274        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 275        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 276        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 35                                |                                  | 4     | 289        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 290        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 291        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 292        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 36                                |                                  | 4     | 305        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 306        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 307        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 308        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 37                                |                                  | 4     | 321        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 322        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 323        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 324        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 38                                |                                  | 4     | 337        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 338        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 339        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 340        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 39                                |                                  | 4     | 353        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 354        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 355        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 356        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |
| 40                                |                                  | 4     | 369        | 1                                      | 2                                      | 4       | 8       | 16              | 32               | 64              | 128              | 4     | 370        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 371        | 1               | 2                | 4               | 8                | 16              | 32               | 64              | 128              | 4     | 372        | 1                | 2                 | 4                | 8                 | 16               | 32                | 64               |

\*F20 to F28 are not active by default in this sound file.



|       |            |                 | PHYSICAL OUTPUTS #1             |           |   |  |       |       |       |       |            | PHYSICAL OUTPUTS #2 |                |           |           |       | LOGIC FUNCTIONS #1 |              |                |               |                  |                            | LOGIC FUNCTIONS #2 |        |                |       |            |                 | SOUND FUNCTIONS #1 |                |                     |                           |                |            |       |            |                                |                                |                       |                       |
|-------|------------|-----------------|---------------------------------|-----------|---|--|-------|-------|-------|-------|------------|---------------------|----------------|-----------|-----------|-------|--------------------|--------------|----------------|---------------|------------------|----------------------------|--------------------|--------|----------------|-------|------------|-----------------|--------------------|----------------|---------------------|---------------------------|----------------|------------|-------|------------|--------------------------------|--------------------------------|-----------------------|-----------------------|
| CV 32 | Control CV | Front Light [1] | Rear Light [1]<br>Number Boards | AUX 1 [1] | AUX 2 [1]<br>Side Number<br>Boards (FT Only if<br>applicable) | AUX 3<br>MARS Light (if<br>applicable) | AUX 4 | AUX 5 | AUX 6 | CV 32 | Control CV | Front Light [2]     | Rear Light [2] | AUX 1 [2] | AUX 2 [2] | CV 32 | Control CV         | Acceleration | Switching Mode | Dynamic Brake | Uncoupling Cycle | Heavy Load<br>(Steam only) | Firebox            | Dimmer | Grade Crossing | CV 32 | Control CV | Manual Notch Up | Manual Notch Down  | Fade Out Sound | Disable Brake Sound | Coas Mode<br>(steam only) | Volume Control | Shift Mode | CV 32 | Control CV | Sound Slot 1:<br>Prime Mover 1 | Sound Slot 2:<br>Prime Mover 2 | Sound Slot 3:<br>Horn | Sound Slot 4:<br>Bell |
| 2     | 266        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 267        | 16                  | 32             | 64        | 128       | 2     | 268                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 269        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 270        | 1                              | 2                              | 4                     | 8                     |
| 2     | 282        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 283        | 16                  | 32             | 64        | 128       | 2     | 284                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 285        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 286        | 1                              | 2                              | 4                     | 8                     |
| 2     | 298        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 299        | 16                  | 32             | 64        | 128       | 2     | 300                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 301        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 302        | 1                              | 2                              | 4                     | 8                     |
| 2     | 314        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 315        | 16                  | 32             | 64        | 128       | 2     | 316                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 317        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 318        | 1                              | 2                              | 4                     | 8                     |
| 2     | 330        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 331        | 16                  | 32             | 64        | 128       | 2     | 332                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 333        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 334        | 1                              | 2                              | 4                     | 8                     |
| 2     | 346        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 347        | 16                  | 32             | 64        | 128       | 2     | 348                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 349        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 350        | 1                              | 2                              | 4                     | 8                     |
| 2     | 362        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 363        | 16                  | 32             | 64        | 128       | 2     | 364                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 365        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 366        | 1                              | 2                              | 4                     | 8                     |
| 2     | 378        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 379        | 16                  | 32             | 64        | 128       | 2     | 380                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 381        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 382        | 1                              | 2                              | 4                     | 8                     |
| 2     | 394        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 395        | 16                  | 32             | 64        | 128       | 2     | 396                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 397        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 398        | 1                              | 2                              | 4                     | 8                     |
| 2     | 410        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 411        | 16                  | 32             | 64        | 128       | 2     | 412                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 413        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 414        | 1                              | 2                              | 4                     | 8                     |
| 2     | 426        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 427        | 16                  | 32             | 64        | 128       | 2     | 428                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 429        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 430        | 1                              | 2                              | 4                     | 8                     |
| 2     | 442        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 443        | 16                  | 32             | 64        | 128       | 2     | 444                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 445        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 446        | 1                              | 2                              | 4                     | 8                     |
| 2     | 458        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 459        | 16                  | 32             | 64        | 128       | 2     | 460                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 461        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 462        | 1                              | 2                              | 4                     | 8                     |
| 2     | 474        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 475        | 16                  | 32             | 64        | 128       | 2     | 476                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 477        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 478        | 1                              | 2                              | 4                     | 8                     |
| 2     | 490        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 491        | 16                  | 32             | 64        | 128       | 2     | 492                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 493        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 494        | 1                              | 2                              | 4                     | 8                     |
| 2     | 506        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 2     | 507        | 16                  | 32             | 64        | 128       | 2     | 508                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 2     | 509        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 2     | 510        | 1                              | 2                              | 4                     | 8                     |
| 3     | 266        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 267        | 16                  | 32             | 64        | 128       | 3     | 268                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 269        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 270        | 1                              | 2                              | 4                     | 8                     |
| 3     | 282        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 283        | 16                  | 32             | 64        | 128       | 3     | 284                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 285        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 286        | 1                              | 2                              | 4                     | 8                     |
| 3     | 298        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 299        | 16                  | 32             | 64        | 128       | 3     | 300                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 301        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 302        | 1                              | 2                              | 4                     | 8                     |
| 3     | 314        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 315        | 16                  | 32             | 64        | 128       | 3     | 316                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 317        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 318        | 1                              | 2                              | 4                     | 8                     |
| 3     | 330        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 331        | 16                  | 32             | 64        | 128       | 3     | 332                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 333        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 334        | 1                              | 2                              | 4                     | 8                     |
| 3     | 346        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 347        | 16                  | 32             | 64        | 128       | 3     | 348                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 349        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 350        | 1                              | 2                              | 4                     | 8                     |
| 3     | 362        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 363        | 16                  | 32             | 64        | 128       | 3     | 364                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 365        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 366        | 1                              | 2                              | 4                     | 8                     |
| 3     | 378        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 379        | 16                  | 32             | 64        | 128       | 3     | 380                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 381        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 382        | 1                              | 2                              | 4                     | 8                     |
| 3     | 394        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 395        | 16                  | 32             | 64        | 128       | 3     | 396                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 397        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 398        | 1                              | 2                              | 4                     | 8                     |
| 3     | 410        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 411        | 16                  | 32             | 64        | 128       | 3     | 412                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 413        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 414        | 1                              | 2                              | 4                     | 8                     |
| 3     | 426        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 427        | 16                  | 32             | 64        | 128       | 3     | 428                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 429        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 430        | 1                              | 2                              | 4                     | 8                     |
| 3     | 442        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 443        | 16                  | 32             | 64        | 128       | 3     | 444                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 445        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 446        | 1                              | 2                              | 4                     | 8                     |
| 3     | 458        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 459        | 16                  | 32             | 64        | 128       | 3     | 460                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 461        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 462        | 1                              | 2                              | 4                     | 8                     |
| 3     | 474        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 475        | 16                  | 32             | 64        | 128       | 3     | 476                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 477        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 478        | 1                              | 2                              | 4                     | 8                     |
| 3     | 490        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 491        | 16                  | 32             | 64        | 128       | 3     | 492                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 493        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 494        | 1                              | 2                              | 4                     | 8                     |
| 3     | 506        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 3     | 507        | 16                  | 32             | 64        | 128       | 3     | 508                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 3     | 509        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 3     | 510        | 1                              | 2                              | 4                     | 8                     |
| 4     | 266        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 267        | 16                  | 32             | 64        | 128       | 4     | 268                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 269        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 270        | 1                              | 2                              | 4                     | 8                     |
| 4     | 282        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 283        | 16                  | 32             | 64        | 128       | 4     | 284                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 285        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 286        | 1                              | 2                              | 4                     | 8                     |
| 4     | 298        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 299        | 16                  | 32             | 64        | 128       | 4     | 300                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 301        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 302        | 1                              | 2                              | 4                     | 8                     |
| 4     | 314        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 315        | 16                  | 32             | 64        | 128       | 4     | 316                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 317        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 318        | 1                              | 2                              | 4                     | 8                     |
| 4     | 330        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 331        | 16                  | 32             | 64        | 128       | 4     | 332                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 333        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 334        | 1                              | 2                              | 4                     | 8                     |
| 4     | 346        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 347        | 16                  | 32             | 64        | 128       | 4     | 348                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 349        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 350        | 1                              | 2                              | 4                     | 8                     |
| 4     | 362        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 363        | 16                  | 32             | 64        | 128       | 4     | 364                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 365        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 366        | 1                              | 2                              | 4                     | 8                     |
| 4     | 378        | 1               | 2                               | 4         | 8   | 16                                     | 32    | 64    | 128   | 4     | 379        | 16                  | 32             | 64        | 128       | 4     | 380                | 1            | 2              | 4             | 8                | 16                         | 32                 | 64     | 128            | 4     | 381        | 2               | 4                  | 8              | 16                  | 32                        | 64             | 128        | 4     | 382        | 1                              | 2                              | 4                     | 8                     |

| Sound Slot 5:<br>Coupler Clank   | Sound Slot 6:<br>Dynamic Brake                    | Sound Slot 7:<br>Compressor | Sound Slot 8:<br>Radiator Fan       | CV 32                           | Control CV                          | SOUND FUNCTIONS #2                   |                                 |       |            |                                      |   |                            |                            | SOUND FUNCTIONS #3         |                            |                            |                                    |   |   |    |    |    |     |
|----------------------------------|---|-----------------------------|-------------------------------------|---------------------------------|-------------------------------------|--------------------------------------|---------------------------------|-------|------------|--------------------------------------|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------------|---|---|----|----|----|-----|
| Sound Slot 9:<br>Defect Detector | Sound Slot 10:<br>Grade Crossing<br>Communication | Sound Slot 11:<br>Not Used  | Sound Slot 12:<br>Brake Set/Release | Sound Slot 13:<br>Sanding Valve | Sound Slot 14:<br>Short Air Let Off | Sound Slot 15:<br>Fast Spitter Valve | Sound Slot 16:<br>Short Airhorn | CV 32 | Control CV | Sound Slot 17:<br>Slow Spitter Valve | Sound Slot 18:<br>Spitters on<br>Shutdown | Sound Slot 19:<br>Not Used | Sound Slot 20:<br>Not Used | Sound Slot 21:<br>Not Used | Sound Slot 22:<br>Not Used | Sound Slot 23:<br>Not Used | Sound Slot 24:<br>Hiss and Startup |   |   |    |    |    |     |
| 16                               | 32  | 64                          | 128                                 | 2                               | 271                                 | 1                                    |                                 |       |            |                                      |   |                            |                            |                            |                            |                            |                                    |   |   |    |    |    |     |
| 16                               | 32  | 64                          | 128                                 | 2                               | 287                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 288                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 303                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 304                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 319                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 320                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 335                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 336                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 351                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 352                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 367                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 368                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 383                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 384                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 399                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 400                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 415                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 416                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 431                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 432                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 447                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 448                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 463                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 464                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 479                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 480                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 495                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 496                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 2                               | 511                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 2                          | 512                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 271                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 272                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 287                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 288                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 303                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 304                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 319                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 320                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 335                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 336                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 351                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 352                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 367                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 368                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 383                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 384                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 399                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 400                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 415                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 416                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 431                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 432                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 447                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 448                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 463                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 464                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 479                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 480                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 495                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 496                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 3                               | 511                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 3                          | 512                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 271                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 272                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 287                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 288                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 303                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 304                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 319                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 320                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 335                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 336                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 351                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 352                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 367                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 368                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |
| 16                               | 32  | 64                          | 128                                 | 4                               | 383                                 | 1                                    | 2                               | 4     | 8          | 16                                   | 32  | 64                         | 128                        | 4                          | 384                        | 1                          | 2                                  | 4 | 8 | 16 | 32 | 64 | 128 |