

## Supplementary Material

### 1.1 Data for 38 iterative experiments

Table 1. *Deinococcus radiodurans* exposure testing results

| Expt. no | Exposure time (min)<br>on/off | OD   | Colonies Control |                 | Colonies Exposed | Ex br         | Control log/coupon |
|----------|-------------------------------|------|------------------|-----------------|------------------|---------------|--------------------|
|          |                               |      | First Dilution   | Second Dilution | No dilution      | OD after 24 H |                    |
| 1        | 25+5                          | 1.91 | 1-88             | 1-5             | 1-0              | 1-0           | 4.12               |
|          |                               |      | 2-121            | 2-16            | 2-0              | 2-0           | 4.25               |
|          |                               |      | 3-88             | 3-6             | 3-0              | 3-0           | 4.12               |
| 2        | 30+5                          | 1.91 | 1-30             | 1-3             | 1-0              | 1-0           | 3.65               |
|          |                               |      | 2-46             | 2-2             | 2-0              | 2-0           | 3.83               |
|          |                               |      | 3-64             | 3-7             | 3-0              | 3-0           | 3.98               |
| 3        | 25+5                          | 1.91 | 1-66             | 1-7             | 1-0              | 1-0           | 3.99               |
|          |                               |      | 2-93             | 2-12            | 2-0              | 2-0           | 4.14               |
|          |                               |      | 3-128            | 3-18            | 3-0              | 3-0           | 4.28               |
| 4        | 25+5                          | 2    | 1-350            |                 | 1-0              | 1-0           | 4.72               |
|          |                               |      | 2-400            | N/A             | 2-0              | 2-0           | 4.77               |
|          |                               |      | 3-500            |                 | 3-0              | 3-0           | 4.87               |
| 5        | 25+5                          | 2    | 1-400            |                 | 1-0              | 1-0           | 4.77               |
|          |                               |      | 2-350            | N/A             | 2-0              | 2-0           | 4.72               |
|          |                               |      | 3-350            |                 | 3-0              | 3-0           | 4.72               |
| 6        | 25+5                          | 2    | 1-400            |                 | 1-0              | 1-0           | 4.77               |
|          |                               |      | 2-450            | N/A             | 2-0              | 2-0           | 4.82               |
|          |                               |      | 3-450            |                 | 3-0              | 3-0           | 4.82               |

Table 2. *Geobacillus stearothermophilus* exposure testing results

| Expt. no | Exposure time (min)<br>on/off | OD   | Colonies Control |                 | Colonies Exposed | Ex br         | Control log/coupon |
|----------|-------------------------------|------|------------------|-----------------|------------------|---------------|--------------------|
|          |                               |      | First Dilution   | Second Dilution | No dilution      | OD after 24 H |                    |
| 7        | 30+5                          | 1.78 | 1-5              | 1-0             | 1-2              | 1-0           | 2.87               |
|          |                               |      | 2-1              | 2-0             | 2-1              | 2-0           | 2.17               |
|          |                               |      | 3-3              | 3-0             | 3-1              | 3-0           | 2.65               |
| 8        | 25+5                          | 1.78 | 1-6              | 1-0             | 1-5              | 1-0           | 2.95               |
|          |                               |      | 2-3              | 2-0             | 2-6              | 2-0           | 2.65               |
|          |                               |      | 3-4              | 3-0             | 3-2              | 3-0           | 2.77               |
| 9        | 30+5                          | 1.78 | 1-1              | 1-0             | 1-1              | 1-0           | 2.17               |
|          |                               |      | 2-20             | 2-0             | 2-0              | 2-0           | 3.47               |
|          |                               |      | 3-7              | 3-1             | 3-0              | 3-0           | 3.02               |
| 10       | 35+5                          | 1.93 | 1-400            | 1-81            | 1-0              | 1-0.02        | 3.78               |
|          |                               |      | 2-400            | 2-74            | 2-0              | 2-0.01        | 3.78               |
|          |                               |      | 3-300            | 3-35            | 3-2              | 3-0           | 3.65               |
| 11       | 35+5                          | 1.93 | 1-300            | 1-40            | 1-1              | 1-0.03        | 3.65               |
|          |                               |      | 2-300            | 2-59            | 2-2              | 2-0           | 3.65               |
|          |                               |      | 3-350            | 3-47            | 3-1              | 3-0           | 3.72               |
| 12       | 40+5                          | 1.93 | 1-250            | 1-17            | 1-10             | 1-0.01        | 3.57               |
|          |                               |      | 2-250            | 2-41            | 2-105            | 2-0.01        | 3.57               |
|          |                               |      | 3-400            | 3-94            | 3-3              | 3-0           | 3.78               |
| 13       | 35+5+5+5                      | 1.81 | 1-500            | 1-75            | 1-2              | 1-0.13        | 3.87               |
|          |                               |      | 2-300            | 2-42            | 2-13             | 2-0.10        | 3.65               |
|          |                               |      | 3-400            | 3-95            | 3-11             | 3-0.15        | 3.77               |
| 14       | 20+10+10+5                    | 1.81 | 1-350            | 1-50            | 1-12             | 1-0.10        | 3.72               |
|          |                               |      | 2-250            | 2-55            | 2-25             | 2-0.12        | 3.57               |
|          |                               |      | 3-250            | 3-60            | 3-140            | 3-0.15        | 3.57               |

|    |           |      |          |         |       |        |      |
|----|-----------|------|----------|---------|-------|--------|------|
| 15 | 24+1+10+5 | 1.85 | 1-400    | 1-118   | 1-10  | 1-0.05 | 3.77 |
|    |           |      | 2-450    | 2-90    | 2-11  | 2-0.02 | 3.82 |
|    |           |      | 3-400    | 3-60    | 3-11  | 3-0.05 | 3.77 |
| 16 | 35+5      | 1.85 | 1-600    | 1-170   | 1-25  | 1-0    | 3.95 |
|    |           |      | 2-600    | 2-160   | 2-11  | 2-0.09 | 3.95 |
|    |           |      | 3-450    | 3-119   | 3-21  | 3-0.09 | 3.82 |
| 17 | 35+5      | 1.83 | 1-600    | 1-225   | 1-7   | 1-0    | 3.95 |
|    |           |      | 2-700    | 2-240   | 2-11  | 2-0.06 | 4.02 |
|    |           |      | 3-650    | 3-220   | 3-5   | 3-0.01 | 3.98 |
| 18 | 40+5      | 1.83 | 1-500    | 1-129   | 1-4   | 1-0.08 | 3.87 |
|    |           |      | 2-700    | 2-150   | 2-41  | 2-0.01 | 4.02 |
|    |           |      | 3-500    | 3-150   | 3-152 | 3-0.07 | 3.87 |
| 19 | 35+5      | 1.81 | 1-900    | 1-103   | 1-55  | 1-0.04 | 4.13 |
|    |           |      | 2-600    | 2-103   | 2-27  | 2-0    | 3.95 |
|    |           |      | 3-350    | 3-20    | 3-57  | 3-0    | 3.72 |
| 20 | 35+5      | 1.81 | 1-228    | 1-26    | 1-14  | 1-0.04 | 3.53 |
|    |           |      | 2-1000   | 2-251   | 2-3   | 2-0.03 | 4.17 |
|    |           |      | 3-800    | 3-56    | 3-9   | 3-0.04 | 4.07 |
| 21 | 35+5      | 1.91 | 1- 1100  | 1- 300  | 1- 1  | 0.05   | 2.56 |
|    |           |      | 2- 1000  | 2- 250  | 2- 0  | 0.02   | 2.30 |
|    |           |      | 3- 800   | 3- 250  | 3- 0  | 0.02   | 2.20 |
| 22 | 35+5      | 1.91 | 1- 2000  | 1- 400  | 1- 29 | 0.01   | 0.84 |
|    |           |      | 2- 1500  | 2- 900  | 2- 5  | 0.02   | 1.11 |
|    |           |      | 3- 2000  | 3- 800  | 3- 0  | 0.04   | 1.68 |
| 23 | 35+5      | 1.91 | 1- 700   | 1- 146  | 1- 1  | 0.03   | 2.24 |
|    |           |      | 2- 700   | 2- 58   | 2- 1  | 0.05   | 2.07 |
|    |           |      | 3- 450   | 3- 80   | 3- 0  | 0.00   | 2.65 |
| 24 | 35+5      | 1.91 | 1- 1500  | 1- 600  | 1- 22 | 0.03   | 0.77 |
|    |           |      | 2- 1500  | 2- 600  | 2- 5  | 0.01   | 0.83 |
|    |           |      | 3- 1100  | 3- 600  | 3- 21 | 0.04   | 0.95 |
| 25 | 35+5      | 1.70 | 1- N/A   | 1- 1000 | 1- 12 | 0.05   | 3.00 |
|    |           |      | 2- N/A   | 2- 1300 | 2- 12 | 0.01   | 5.29 |
|    |           |      | 3- N/A   | 3- 1300 | 3- 0  | 0.05   | 5.29 |
| 26 | 35+5      | 1.70 | 1- N/A   | 1- 1200 | 1- 12 | 0.03   | 5.25 |
|    |           |      | 2- N/A   | 2- 1400 | 2- 1  | 0.00   | 5.32 |
|    |           |      | 3- N/A   | 3- 1300 | 3- 1  | 0.02   | 3.11 |
| 27 | 35+5      | 1.70 | 1- 12000 | 1- 900  | 1- 0  | 0.03   | 5.25 |
|    |           |      | 2- 13000 | 2- 1000 | 2- 0  | 0.05   | 5.29 |
|    |           |      | 3- 12000 | 3- 1000 | 3- 0  | 0.02   | 5.25 |
| 28 | 35+5      | 1.70 | 1- 14000 | 1- 1000 | 1- 0  | 0.00   | 5.32 |
|    |           |      | 2- 12000 | 2- 900  | 2- 0  | 0.02   | 5.25 |
|    |           |      | 3- 12000 | 3- 1000 | 3- 0  | 0.03   | 5.25 |

Table 3. *Geobacillus stearothermophilus* spore exposure testing results

| Expt. no | Exposure Time         | Growth Status |
|----------|-----------------------|---------------|
| 29       | 40 min on + 5 min off | No growth     |
| 30       | 40 min on + 5 min off | No growth     |
| 31       | 35 min on + 5 min off | No growth     |
| 32       | 35 min on + 5 min off | No growth     |

Table 4. *Aspergillus fumigatus* testing results

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| Expt. no | Exposure Time         | Growth Status |
|----------|-----------------------|---------------|
| 33       | 40 min on + 5 min off | No growth     |
| 34       | 35 min on + 5 min off | No growth     |
| 35       | 30 min on + 5 min off | Growth        |
| 36       | 35 min on + 5 min off | No growth     |
| 37       | 35 min on + 5 min off | No growth     |
| 38       | 30 min on + 5 min off | Growth        |

## 1.2 Data for ozone decomposition

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Table 5. Ozone Concentration Natural Decay Rate

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| Time (min) | Ozone Concentration (PPM) |        |        |
|------------|---------------------------|--------|--------|
|            | Test 1                    | Test 2 | Test 3 |
| 0.00       | 0.06                      | 0.08   | 0.00   |
| 0.17       | 0.05                      | 0.09   | 0.00   |
| 0.33       | 0.17                      | 0.09   | 0.00   |
| 0.50       | 2.81                      | 1.10   | 1.49   |
| 0.67       | 9.03                      | 6.87   | 9.14   |
| 0.83       | 18.93                     | 18.31  | 22.33  |
| 1.00       | 29.88                     | 32.82  | 35.56  |
| 1.17       | 39.44                     | 45.92  | 47.59  |
| 1.33       | 48.58                     | 55.46  | 58.44  |
| 1.50       | 57.42                     | 63.58  | 68.84  |
| 1.67       | 67.03                     | 71.12  | 80.11  |
| 1.83       | 76.55                     | 78.20  | 91.22  |
| 2.00       | 84.36                     | 85.55  | 101.50 |
| 2.17       | 91.72                     | 95.00  | 111.30 |
| 2.33       | 98.93                     | 104.00 | 120.60 |
| 2.50       | 106.00                    | 111.10 | 129.90 |
| 2.67       | 112.90                    | 118.40 | 138.40 |
| 2.83       | 119.20                    | 125.90 | 146.20 |
| 3.00       | 125.70                    | 132.50 | 153.90 |
| 3.17       | 131.60                    | 138.30 | 161.60 |
| 3.33       | 137.90                    | 144.10 | 168.90 |
| 3.50       | 143.80                    | 149.50 | 176.00 |
| 3.67       | 148.90                    | 155.10 | 183.30 |
| 3.83       | 153.50                    | 160.40 | 190.20 |
| 4.00       | 158.60                    | 165.80 | 196.60 |
| 4.17       | 163.30                    | 172.20 | 202.80 |
| 4.33       | 167.70                    | 179.10 | 208.80 |
| 4.50       | 172.30                    | 184.70 | 215.40 |
| 4.67       | 176.90                    | 189.50 | 221.50 |
| 4.83       | 182.40                    | 195.30 | 226.60 |
| 5.00       | 186.70                    | 200.90 | 232.10 |
| 5.17       | 190.70                    | 205.60 | 238.20 |
| 5.33       | 194.90                    | 210.40 | 244.10 |

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|       |        |        |        |
|-------|--------|--------|--------|
| 5.50  | 198.90 | 214.60 | 249.60 |
| 5.67  | 203.30 | 218.70 | 254.50 |
| 5.83  | 206.90 | 223.20 | 259.60 |
| 6.00  | 210.40 | 227.80 | 264.90 |
| 6.17  | 213.90 | 231.90 | 269.70 |
| 6.33  | 217.10 | 235.70 | 275.00 |
| 6.50  | 220.90 | 240.50 | 280.40 |
| 6.67  | 224.50 | 244.80 | 285.20 |
| 6.83  | 227.60 | 248.30 | 289.10 |
| 7.00  | 231.00 | 252.70 | 292.80 |
| 7.17  | 234.60 | 257.00 | 297.10 |
| 7.33  | 237.80 | 260.80 | 300.20 |
| 7.50  | 239.80 | 264.10 | 304.30 |
| 7.67  | 242.90 | 266.70 | 309.90 |
| 7.83  | 246.90 | 270.20 | 314.60 |
| 8.00  | 249.90 | 273.90 | 318.80 |
| 8.17  | 252.70 | 276.50 | 322.50 |
| 8.33  | 255.60 | 278.40 | 326.90 |
| 8.50  | 258.60 | 281.90 | 331.20 |
| 8.67  | 261.40 | 285.90 | 333.80 |
| 8.83  | 264.00 | 288.90 | 334.10 |
| 9.00  | 266.00 | 291.80 | 336.60 |
| 9.17  | 267.90 | 294.80 | 341.50 |
| 9.33  | 270.50 | 297.90 | 345.70 |
| 9.50  | 272.80 | 301.00 | 350.00 |
| 9.67  | 274.90 | 305.00 | 353.60 |
| 9.83  | 277.30 | 308.20 | 356.90 |
| 10.00 | 279.60 | 310.00 | 359.40 |
| 10.17 | 281.90 | 312.20 | 361.70 |
| 10.33 | 283.70 | 313.70 | 362.90 |
| 10.50 | 282.30 | 310.90 | 356.30 |
| 10.67 | 278.40 | 308.90 | 348.40 |
| 10.83 | 275.40 | 308.50 | 347.00 |
| 11.00 | 271.60 | 306.90 | 346.00 |
| 11.17 | 269.00 | 305.70 | 343.50 |
| 11.33 | 267.10 | 304.80 | 339.80 |
| 11.50 | 265.50 | 305.00 | 336.60 |
| 11.67 | 261.70 | 304.30 | 333.50 |
| 11.83 | 257.30 | 302.10 | 330.40 |
| 12.00 | 258.00 | 299.50 | 328.40 |
| 12.17 | 258.30 | 296.90 | 325.90 |
| 12.33 | 255.40 | 293.10 | 322.80 |
| 12.50 | 253.70 | 291.10 | 321.30 |
| 12.67 | 254.50 | 290.30 | 319.50 |
| 12.83 | 253.70 | 287.80 | 318.30 |
| 13.00 | 250.70 | 285.50 | 318.80 |
| 13.17 | 247.90 | 282.10 | 317.40 |

|       |        |        |        |
|-------|--------|--------|--------|
| 13.33 | 247.00 | 279.70 | 314.10 |
| 13.50 | 246.70 | 279.40 | 312.70 |
| 13.67 | 244.20 | 278.70 | 312.50 |
| 13.83 | 239.10 | 277.10 | 310.10 |
| 14.00 | 236.40 | 275.30 | 307.70 |
| 14.17 | 237.00 | 273.40 | 306.30 |
| 14.33 | 236.10 | 269.40 | 303.90 |
| 14.50 | 234.20 | 266.50 | 301.70 |
| 14.67 | 230.70 | 265.10 | 300.00 |
| 14.83 | 227.60 | 263.10 | 297.40 |
| 15.00 | 224.60 | 261.10 | 294.80 |

Table 6. Ozone Concentration ODM Decay Rate

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| Time<br>(min) | Ozone Concentration (PPM) |        |        |        |        |        |        |        |        |         |
|---------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|               | Test 1                    | Test 2 | Test 3 | Test 4 | Test 5 | Test 6 | Test 7 | Test 8 | Test 9 | Test 10 |
| 0.00          | 0.02                      | 0.03   | 0.03   | 0.04   | 0.01   | 0.02   | 0.02   | 0.03   | 0.01   | 0.03    |
| 0.17          | 0.02                      | 0.03   | 0.03   | 0.04   | 0.01   | 0.02   | 0.03   | 0.03   | 0.01   | 0.04    |
| 0.33          | 0.02                      | 0.04   | 0.12   | 0.22   | 0.10   | 0.19   | 0.03   | 0.03   | 0.00   | 0.04    |
| 0.50          | 0.02                      | 0.45   | 2.76   | 2.60   | 2.03   | 3.61   | 1.33   | 0.19   | 0.06   | 0.04    |
| 0.67          | 0.01                      | 3.91   | 10.51  | 9.53   | 8.25   | 13.38  | 7.68   | 1.69   | 1.21   | 2.84    |
| 0.83          | 0.01                      | 11.17  | 20.93  | 19.46  | 17.65  | 26.61  | 18.36  | 9.05   | 5.81   | 2.85    |
| 1.00          | 0.02                      | 20.38  | 31.98  | 29.76  | 27.46  | 39.44  | 29.58  | 19.99  | 11.26  | 2.81    |
| 1.17          | 5.49                      | 30.78  | 43.79  | 40.31  | 36.63  | 50.56  | 40.37  | 28.71  | 16.84  | 2.98    |
| 1.33          | 29.55                     | 41.85  | 54.61  | 50.99  | 45.31  | 60.54  | 51.92  | 35.85  | 25.98  | 4.16    |
| 1.50          | 55.49                     | 52.24  | 63.48  | 61.47  | 54.62  | 70.58  | 63.25  | 43.53  | 36.44  | 7.66    |
| 1.67          | 67.20                     | 60.69  | 71.62  | 70.84  | 63.87  | 81.89  | 72.90  | 53.17  | 44.77  | 12.77   |
| 1.83          | 75.78                     | 68.37  | 80.53  | 79.40  | 73.00  | 92.07  | 81.28  | 63.23  | 50.70  | 18.88   |
| 2.00          | 83.71                     | 75.87  | 88.12  | 87.61  | 82.34  | 100.10 | 89.09  | 71.85  | 56.31  | 26.17   |
| 2.17          | 90.74                     | 84.17  | 95.08  | 95.17  | 90.08  | 109.30 | 96.84  | 78.35  | 64.35  | 34.25   |
| 2.33          | 97.48                     | 92.51  | 102.60 | 102.30 | 95.86  | 117.70 | 105.30 | 83.58  | 73.11  | 43.50   |
| 2.50          | 104.90                    | 99.58  | 109.00 | 109.00 | 103.10 | 124.60 | 114.40 | 88.92  | 79.46  | 52.68   |
| 2.67          | 112.40                    | 106.00 | 116.50 | 116.40 | 112.70 | 131.90 | 122.20 | 95.74  | 85.89  | 59.67   |
| 2.83          | 118.60                    | 112.30 | 124.10 | 124.00 | 120.80 | 139.60 | 129.60 | 103.00 | 94.13  | 65.58   |
| 3.00          | 124.00                    | 118.00 | 130.00 | 130.20 | 127.30 | 147.10 | 137.20 | 109.10 | 102.20 | 72.42   |
| 3.17          | 129.80                    | 123.90 | 135.70 | 135.60 | 133.00 | 153.90 | 144.60 | 114.50 | 109.70 | 79.73   |
| 3.33          | 136.70                    | 130.90 | 142.00 | 142.10 | 137.90 | 160.80 | 151.30 | 120.30 | 116.00 | 86.77   |
| 3.50          | 143.10                    | 137.70 | 148.10 | 149.10 | 143.40 | 168.30 | 157.30 | 126.30 | 121.20 | 93.93   |
| 3.67          | 149.00                    | 143.60 | 153.80 | 155.50 | 150.40 | 176.10 | 163.70 | 133.00 | 127.30 | 99.90   |
| 3.83          | 155.50                    | 149.80 | 159.30 | 160.70 | 156.90 | 182.50 | 171.10 | 140.10 | 132.70 | 106.00  |
| 4.00          | 161.50                    | 155.60 | 165.10 | 164.70 | 162.60 | 188.80 | 177.50 | 145.80 | 137.50 | 112.50  |
| 4.17          | 167.60                    | 160.10 | 171.10 | 169.40 | 168.10 | 195.60 | 182.20 | 152.00 | 144.20 | 118.50  |
| 4.33          | 173.00                    | 166.00 | 177.10 | 175.40 | 173.40 | 200.70 | 188.10 | 157.80 | 150.70 | 124.40  |
| 4.50          | 177.90                    | 172.00 | 182.90 | 181.80 | 178.50 | 205.60 | 195.80 | 162.10 | 156.40 | 131.30  |
| 4.67          | 183.00                    | 177.00 | 188.00 | 186.10 | 184.40 | 211.80 | 202.60 | 167.50 | 161.70 | 140.40  |
| 4.83          | 188.70                    | 182.40 | 192.50 | 189.90 | 190.40 | 218.00 | 208.70 | 173.50 | 165.80 | 148.80  |
| 5.00          | 194.30                    | 187.00 | 197.20 | 195.20 | 195.40 | 223.40 | 215.80 | 178.40 | 170.40 | 154.50  |
| 5.17          | 198.60                    | 190.60 | 202.10 | 200.20 | 200.00 | 228.80 | 221.80 | 183.50 | 176.30 | 159.70  |

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|       |        |        |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5.33  | 202.80 | 194.70 | 206.80 | 205.30 | 205.10 | 234.20 | 226.40 | 188.70 | 182.10 | 165.50 |
| 5.50  | 206.10 | 200.40 | 210.30 | 210.20 | 210.70 | 240.00 | 231.70 | 193.50 | 186.60 | 171.80 |
| 5.67  | 210.00 | 205.50 | 214.80 | 214.00 | 215.40 | 245.00 | 237.60 | 199.10 | 191.10 | 178.60 |
| 5.83  | 216.00 | 209.20 | 220.90 | 218.10 | 218.80 | 250.20 | 243.60 | 203.30 | 195.30 | 186.40 |
| 6.00  | 221.70 | 214.10 | 225.40 | 223.90 | 222.50 | 256.20 | 249.60 | 207.90 | 199.90 | 193.50 |
| 6.17  | 227.50 | 219.20 | 229.10 | 229.10 | 227.90 | 261.00 | 254.90 | 214.00 | 205.40 | 199.00 |
| 6.33  | 232.20 | 223.20 | 233.40 | 233.90 | 233.40 | 265.50 | 260.90 | 219.50 | 210.40 | 204.90 |
| 6.50  | 236.00 | 227.80 | 238.40 | 239.10 | 238.20 | 270.70 | 266.60 | 224.50 | 214.70 | 210.80 |
| 6.67  | 240.20 | 232.50 | 242.60 | 243.20 | 242.40 | 275.60 | 271.20 | 228.60 | 218.50 | 216.20 |
| 6.83  | 243.80 | 234.70 | 246.00 | 246.90 | 246.60 | 280.20 | 276.80 | 232.80 | 222.70 | 222.00 |
| 7.00  | 247.10 | 237.30 | 250.60 | 250.60 | 250.70 | 284.80 | 282.40 | 236.30 | 226.90 | 228.70 |
| 7.17  | 250.90 | 242.40 | 255.70 | 254.70 | 253.90 | 289.20 | 286.80 | 240.20 | 230.40 | 234.70 |
| 7.33  | 256.60 | 247.70 | 259.80 | 259.00 | 257.50 | 292.90 | 291.40 | 244.20 | 234.10 | 240.50 |
| 7.50  | 261.50 | 251.80 | 263.60 | 262.40 | 261.80 | 296.60 | 296.50 | 248.30 | 238.00 | 246.20 |
| 7.67  | 264.90 | 256.20 | 267.10 | 265.60 | 265.90 | 301.40 | 301.10 | 253.50 | 242.20 | 249.80 |
| 7.83  | 268.70 | 258.90 | 270.50 | 269.90 | 268.70 | 305.10 | 305.80 | 258.40 | 246.30 | 253.90 |
| 8.00  | 272.30 | 261.30 | 274.50 | 274.10 | 272.20 | 308.30 | 309.00 | 261.30 | 250.20 | 259.80 |
| 8.17  | 277.20 | 266.00 | 278.10 | 277.10 | 277.20 | 313.00 | 311.90 | 264.40 | 252.80 | 265.00 |
| 8.33  | 281.20 | 270.00 | 282.00 | 281.10 | 280.30 | 317.30 | 316.40 | 269.40 | 255.90 | 269.90 |
| 8.50  | 282.90 | 273.40 | 285.70 | 285.00 | 283.90 | 321.30 | 321.40 | 273.00 | 259.40 | 276.10 |
| 8.67  | 286.10 | 276.70 | 289.50 | 287.50 | 287.90 | 324.90 | 326.30 | 276.50 | 263.10 | 282.00 |
| 8.83  | 289.80 | 279.50 | 293.30 | 291.80 | 291.20 | 328.20 | 330.00 | 281.00 | 267.20 | 287.10 |
| 9.00  | 293.30 | 283.40 | 296.80 | 295.70 | 294.20 | 331.40 | 333.80 | 284.40 | 269.80 | 292.30 |
| 9.17  | 296.50 | 287.60 | 300.70 | 298.60 | 296.30 | 334.80 | 339.00 | 287.40 | 272.70 | 297.70 |
| 9.33  | 298.40 | 290.20 | 303.60 | 302.00 | 299.30 | 338.10 | 343.80 | 290.70 | 276.20 | 301.40 |
| 9.50  | 301.00 | 292.60 | 306.10 | 304.70 | 303.60 | 341.70 | 346.90 | 293.80 | 279.30 | 304.90 |
| 9.67  | 303.80 | 296.00 | 309.60 | 308.40 | 307.20 | 346.50 | 350.10 | 296.70 | 282.90 | 310.10 |
| 9.83  | 309.20 | 298.80 | 313.50 | 310.80 | 309.30 | 349.80 | 354.40 | 300.00 | 286.00 | 314.50 |
| 10.00 | 314.60 | 302.10 | 316.00 | 312.30 | 311.70 | 351.70 | 357.80 | 303.70 | 288.70 | 317.80 |
| 10.17 | 317.10 | 306.10 | 317.60 | 315.70 | 314.30 | 354.60 | 360.80 | 306.60 | 292.10 | 321.40 |
| 10.33 | 318.00 | 309.80 | 319.30 | 319.20 | 316.00 | 355.50 | 364.40 | 308.70 | 291.20 | 325.30 |
| 10.50 | 317.90 | 311.10 | 315.90 | 317.00 | 316.00 | 339.40 | 361.30 | 309.20 | 285.80 | 329.90 |
| 10.67 | 313.60 | 303.70 | 289.50 | 295.20 | 305.10 | 296.70 | 334.70 | 307.50 | 263.40 | 334.30 |
| 10.83 | 289.10 | 274.10 | 240.00 | 250.60 | 270.00 | 241.90 | 282.70 | 290.30 | 221.10 | 337.80 |
| 11.00 | 241.90 | 224.60 | 188.10 | 199.00 | 218.80 | 191.10 | 225.50 | 247.80 | 177.30 | 341.50 |
| 11.17 | 189.90 | 174.70 | 143.70 | 153.40 | 170.10 | 148.80 | 175.70 | 196.60 | 139.20 | 343.40 |
| 11.33 | 144.80 | 132.70 | 108.40 | 116.60 | 129.90 | 115.10 | 135.30 | 151.10 | 108.20 | 334.50 |
| 11.50 | 108.80 | 99.76  | 81.29  | 87.99  | 98.30  | 88.69  | 103.50 | 114.60 | 83.67  | 302.00 |
| 11.67 | 81.44  | 74.69  | 60.80  | 66.21  | 73.93  | 68.04  | 78.94  | 86.40  | 64.38  | 250.40 |
| 11.83 | 60.70  | 55.63  | 45.34  | 49.71  | 55.41  | 52.19  | 60.01  | 64.61  | 49.41  | 197.80 |
| 12.00 | 44.96  | 41.12  | 33.56  | 37.09  | 41.46  | 40.08  | 45.56  | 47.97  | 37.89  | 153.30 |
| 12.17 | 33.09  | 30.17  | 24.64  | 27.48  | 30.88  | 30.74  | 34.46  | 35.41  | 28.94  | 117.50 |
| 12.33 | 24.24  | 21.92  | 17.95  | 20.15  | 22.78  | 23.49  | 25.95  | 25.93  | 21.99  | 89.25  |
| 12.50 | 17.60  | 15.75  | 12.90  | 14.63  | 16.60  | 17.83  | 19.40  | 18.75  | 16.60  | 67.44  |
| 12.67 | 12.65  | 11.15  | 9.12   | 10.47  | 11.91  | 13.44  | 14.36  | 13.32  | 12.42  | 50.71  |
| 12.83 | 8.91   | 7.75   | 6.35   | 7.37   | 8.39   | 10.05  | 10.51  | 9.30   | 9.16   | 37.91  |
| 13.00 | 6.12   | 5.27   | 4.30   | 5.03   | 5.81   | 7.41   | 7.58   | 6.37   | 6.66   | 28.07  |

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|       |      |      |      |      |      |      |      |      |      |       |
|-------|------|------|------|------|------|------|------|------|------|-------|
| 13.17 | 4.12 | 3.49 | 2.82 | 3.35 | 3.91 | 5.37 | 5.37 | 4.25 | 4.74 | 20.61 |
| 13.33 | 2.69 | 2.24 | 1.80 | 2.19 | 2.55 | 3.84 | 3.74 | 2.74 | 3.31 | 14.96 |
| 13.50 | 1.70 | 1.40 | 1.12 | 1.37 | 1.62 | 2.70 | 2.54 | 1.70 | 2.25 | 10.62 |
| 13.67 | 1.06 | 0.83 | 0.67 | 0.83 | 0.99 | 1.86 | 1.68 | 1.03 | 1.49 | 7.39  |
| 13.83 | 0.65 | 0.48 | 0.40 | 0.49 | 0.60 | 1.23 | 1.08 | 0.61 | 0.97 | 5.00  |
| 14.00 | 0.39 | 0.28 | 0.24 | 0.29 | 0.36 | 0.80 | 0.67 | 0.36 | 0.63 | 3.27  |
| 14.17 | 0.24 | 0.16 | 0.15 | 0.19 | 0.22 | 0.51 | 0.43 | 0.24 | 0.40 | 2.06  |
| 14.33 | 0.15 | 0.11 | 0.12 | 0.13 | 0.15 | 0.33 | 0.27 | 0.16 | 0.28 | 1.25  |
| 14.50 | 0.10 | 0.09 | 0.10 | 0.09 | 0.12 | 0.22 | 0.17 | 0.12 | 0.21 | 0.74  |
| 14.67 | 0.07 | 0.07 | 0.08 | 0.08 | 0.10 | 0.15 | 0.13 | 0.12 | 0.17 | 0.43  |
| 14.83 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 | 0.10 | 0.10 | 0.10 | 0.15 | 0.26  |
| 15.00 | 0.06 | 0.06 | 0.08 | 0.06 | 0.09 | 0.08 | 0.09 | 0.10 | 0.15 | 0.16  |

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