

Z.U.O. "EKO - SOFT"  
Łódź ul. Rogozińskiego 17/7  
tel. 042 648 71 85

HAŁAS PRZEMYSŁOWY i DROGOWY  
PROGRAM SON2 WERSJA 6.0

Właściciel licencji: PWeko Inżynieria Środowiska Sp. z o.o.  
44-240 Żory, ul. Rozwojowa 2 bud. D lok. D1.6  
Licencja nr PW/44217/Spd/20 z dnia 29.01.2020/21.12.2020

#### DANE WEJŚCIOWE

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Rodzaj obliczeń: Poziom hałasu równoważnego

1. Nazwa projektu:
2. Temperatura powietrza [st C.] = 10
3. Wilgotność względna powietrza [%] = 70
4. Tło akustyczne dB(A):  
Pora dnia : 0.0  
Pora nocy : 0.0

5. Rodzaj gruntu przeważającego: grunt mieszany, wskaźnik gruntu  $G = 0.70$
6. Obszar nr 1 gruntu innej kategorii, o nazwie: Teren fermy - rodzaj gruntu : grunt porowaty, wskaźnik gruntu  $G = 1$

Współrzędne wierzchołków wielokąta obszaru "Teren fermy"

| Lp    | Współrzędne wierzchołków |       |
|-------|--------------------------|-------|
|       | x                        | y     |
| ----- |                          |       |
|       | m                        | m     |
| ===== |                          |       |
| 1     | 66.9                     | 364.7 |
| 2     | 323.8                    | 371.6 |
| 3     | 358.9                    | 365.0 |
| 4     | 354.1                    | 310.5 |
| 5     | 420.5                    | 307.4 |
| 6     | 419.9                    | 286.5 |
| 7     | 407.0                    | 284.9 |
| 8     | 402.2                    | 198.2 |
| 9     | 360.5                    | 214.1 |
| 10    | 354.9                    | 212.5 |
| 11    | 350.7                    | 136.9 |
| 12    | 334.6                    | 136.6 |
| 13    | 332.2                    | 96.7  |
| 14    | 192.7                    | 104.9 |
| 15    | 192.7                    | 171.8 |
| 16    | 133.7                    | 160.2 |

7. Obszar nr 2 gruntu innej kategorii, o nazwie: Tereny rolne - rodzaj gruntu : grunt porowaty, wskaźnik gruntu  $G = 1$

Współrzędne wierzchołków wielokąta obszaru "Tereny rolne"

| Lp    | Współrzędne wierzchołków |      |
|-------|--------------------------|------|
|       | x                        | y    |
| ----- |                          |      |
|       | m                        | m    |
| ===== |                          |      |
| 1     | 1.1                      | 61.8 |
| 2     | 150.4                    | 88.8 |
| 3     | 253.7                    | 86.4 |
| 4     | 538.1                    | 74.0 |
| 5     | 537.6                    | 1.1  |
| 6     | 0.5                      | 1.3  |

8. Obszar nr 3 gruntu innej kategorii, o nazwie: Tereny rolne - rodzaj gruntu : grunt porowaty, wskaźnik

gruntu G = 1

Współrzędne wierzchołków wielokąta obszaru "Tereny rolne"

| Lp | Współrzędne wierzchołków |       |
|----|--------------------------|-------|
|    | x                        | y     |
|    | m                        | m     |
| 1  | 120.5                    | 100.2 |
| 2  | 103.6                    | 154.1 |
| 3  | 132.7                    | 161.0 |
| 4  | 64.0                     | 370.5 |
| 5  | 314.8                    | 375.3 |
| 6  | 324.0                    | 377.4 |
| 7  | 525.1                    | 344.4 |
| 8  | 538.1                    | 343.3 |
| 9  | 537.3                    | 517.5 |
| 10 | 0.3                      | 516.9 |
| 11 | 1.3                      | 74.8  |

#### 9. Punktowe źródła hałasu

| Lp | Symbol    |    | Współrzędne źródła |       |     | ht  | Rodzaj źródła | LAW   | tD    | tN    | Do |
|----|-----------|----|--------------------|-------|-----|-----|---------------|-------|-------|-------|----|
|    |           |    | x                  | y     | z   |     |               |       |       |       |    |
|    |           |    | m                  | m     | m   | m   |               | dB(A) | h     | h     | dB |
| 1  | w.dachowe | 1  | 232.0              | 217.5 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 2  | w.dachowe | 2  | 232.0              | 210.4 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 3  | w.dachowe | 3  | 231.8              | 204.3 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 4  | w.dachowe | 4  | 231.5              | 196.4 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 5  | w.dachowe | 5  | 231.0              | 190.3 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 6  | w.dachowe | 6  | 231.0              | 183.7 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 7  | w.dachowe | 7  | 230.5              | 176.3 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 8  | w.dachowe | 8  | 230.2              | 171.5 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 9  | w.dachowe | 9  | 229.9              | 163.9 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 10 | w.dachowe | 10 | 229.7              | 157.5 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 11 | w.dachowe | 11 | 248.7              | 157.5 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 12 | w.dachowe | 12 | 248.7              | 163.9 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 13 | w.dachowe | 13 | 249.0              | 171.3 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 14 | w.dachowe | 14 | 249.0              | 177.3 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 15 | w.dachowe | 15 | 250.0              | 183.7 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 16 | w.dachowe | 16 | 249.5              | 190.8 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 17 | w.dachowe | 17 | 249.8              | 197.4 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 18 | w.dachowe | 18 | 250.0              | 203.2 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 19 | w.dachowe | 19 | 250.3              | 210.6 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 20 | w.dachowe | 20 | 250.5              | 216.7 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 21 | w.dachowe | 21 | 269.6              | 216.5 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 22 | w.dachowe | 22 | 269.3              | 209.6 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 23 | w.dachowe | 23 | 269.3              | 203.0 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 24 | w.dachowe | 24 | 268.5              | 195.6 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 25 | w.dachowe | 25 | 268.3              | 189.8 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 26 | w.dachowe | 26 | 268.0              | 182.9 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 27 | w.dachowe | 27 | 268.0              | 175.8 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 28 | w.dachowe | 28 | 267.7              | 169.7 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 29 | w.dachowe | 29 | 267.2              | 163.3 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 30 | w.dachowe | 30 | 267.2              | 156.2 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 31 | w.dachowe | 31 | 301.6              | 214.9 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 32 | w.dachowe | 32 | 301.6              | 207.2 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 33 | w.dachowe | 33 | 301.3              | 201.4 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 34 | w.dachowe | 34 | 300.8              | 194.5 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 35 | w.dachowe | 35 | 301.0              | 188.2 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 36 | w.dachowe | 36 | 300.2              | 181.3 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 37 | w.dachowe | 37 | 300.5              | 174.4 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 38 | w.dachowe | 38 | 300.2              | 167.8 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 39 | w.dachowe | 39 | 300.0              | 161.2 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 40 | w.dachowe | 40 | 300.0              | 154.6 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 41 | w.dachowe | 41 | 321.1              | 214.9 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 42 | w.dachowe | 42 | 320.3              | 207.7 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 43 | w.dachowe | 43 | 319.8              | 201.1 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |
| 44 | w.dachowe | 44 | 319.8              | 194.5 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 |       | 3  |
| 45 | w.dachowe | 45 | 319.8              | 188.2 | 4.6 | 0.0 | wszechkier.   | 77.9  | 8.000 | 1.000 | 3  |

|     |                |       |       |     |     |             |      |             |   |
|-----|----------------|-------|-------|-----|-----|-------------|------|-------------|---|
| 46  | w.dachowe 46   | 319.0 | 181.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 47  | w.dachowe 47   | 318.7 | 174.2 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 48  | w.dachowe 48   | 318.7 | 167.8 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 49  | w.dachowe 49   | 318.2 | 161.2 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 50  | w.dachowe 50   | 317.7 | 154.6 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 51  | w.dachowe 51   | 338.8 | 213.8 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 52  | w.dachowe 52   | 338.8 | 206.9 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 53  | w.dachowe 53   | 338.3 | 200.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 54  | w.dachowe 54   | 338.3 | 193.5 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 55  | w.dachowe 55   | 337.8 | 187.4 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 56  | w.dachowe 56   | 337.8 | 180.5 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 57  | w.dachowe 57   | 337.2 | 173.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 58  | w.dachowe 58   | 337.2 | 167.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 59  | w.dachowe 59   | 337.2 | 160.4 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 60  | w.dachowe 60   | 336.4 | 153.6 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 61  | w.dachowe 61   | 268.8 | 265.6 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 62  | w.dachowe 62   | 263.5 | 266.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 63  | w.dachowe 63   | 257.1 | 266.9 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 64  | w.dachowe 64   | 251.6 | 267.2 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 65  | w.dachowe 65   | 245.5 | 267.2 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 66  | w.dachowe 66   | 240.0 | 266.9 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 67  | w.dachowe 67   | 233.9 | 266.9 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 68  | w.dachowe 68   | 227.0 | 268.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 69  | w.dachowe 69   | 222.3 | 268.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 70  | w.dachowe 70   | 216.5 | 268.5 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 71  | w.dachowe 71   | 267.7 | 241.8 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 72  | w.dachowe 72   | 262.4 | 242.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 73  | w.dachowe 73   | 255.6 | 242.3 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 74  | w.dachowe 74   | 250.5 | 243.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 75  | w.dachowe 75   | 244.7 | 243.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 76  | w.dachowe 76   | 239.2 | 242.6 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 77  | w.dachowe 77   | 232.6 | 243.4 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 78  | w.dachowe 78   | 227.0 | 243.4 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 79  | w.dachowe 79   | 222.3 | 243.4 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 80  | w.dachowe 80   | 214.9 | 243.7 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 81  | w.dachowe 81   | 318.5 | 275.4 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 82  | w.dachowe 82   | 326.4 | 275.6 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 83  | w.dachowe 83   | 332.7 | 275.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 84  | w.dachowe 84   | 339.9 | 275.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 85  | w.dachowe 85   | 347.0 | 275.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 86  | w.dachowe 86   | 354.7 | 274.3 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 87  | w.dachowe 87   | 361.8 | 274.9 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 88  | w.dachowe 88   | 368.7 | 273.5 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 89  | w.dachowe 89   | 376.3 | 273.5 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 90  | w.dachowe 90   | 383.5 | 273.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 91  | w.dachowe 91   | 381.6 | 247.6 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 92  | w.dachowe 92   | 373.7 | 249.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 93  | w.dachowe 93   | 366.8 | 248.7 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 94  | w.dachowe 94   | 359.7 | 249.8 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 95  | w.dachowe 95   | 352.3 | 249.5 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 96  | w.dachowe 96   | 345.4 | 250.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 97  | w.dachowe 97   | 338.8 | 250.0 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 98  | w.dachowe 98   | 331.2 | 250.8 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 99  | w.dachowe 99   | 324.0 | 251.1 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000 1.000 | 3 |
| 100 | w.dachowe 100  | 316.4 | 250.3 | 4.6 | 0.0 | wszechkier. | 77.9 | 8.000       | 3 |
| 101 | w.szczytowe 1  | 232.3 | 150.9 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 102 | w.szczytowe 2  | 234.4 | 151.2 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 103 | w.szczytowe 3  | 250.8 | 150.1 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 104 | w.szczytowe 4  | 252.9 | 150.1 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 105 | w.szczytowe 5  | 269.0 | 149.3 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 106 | w.szczytowe 6  | 271.2 | 149.1 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 107 | w.szczytowe 7  | 294.4 | 148.0 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 108 | w.szczytowe 8  | 296.5 | 147.7 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 109 | w.szczytowe 9  | 312.6 | 147.2 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 110 | w.szczytowe 10 | 315.3 | 146.9 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 111 | w.szczytowe 11 | 331.2 | 146.4 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 112 | w.szczytowe 12 | 333.3 | 146.4 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 113 | w.szczytowe 13 | 212.5 | 272.5 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 114 | w.szczytowe 14 | 212.5 | 266.1 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 115 | w.szczytowe 15 | 212.2 | 264.3 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 116 | w.szczytowe 16 | 211.2 | 248.7 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 117 | w.szczytowe 17 | 211.4 | 246.1 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 118 | w.szczytowe 18 | 210.9 | 240.5 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |
| 119 | w.szczytowe 19 | 314.0 | 280.7 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000       | 3 |

|     |                |       |       |     |     |             |      |       |   |
|-----|----------------|-------|-------|-----|-----|-------------|------|-------|---|
| 120 | w.szczytowe 20 | 313.4 | 274.1 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000 | 3 |
| 121 | w.szczytowe 21 | 313.4 | 271.9 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000 | 3 |
| 122 | w.szczytowe 22 | 312.6 | 256.1 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000 | 3 |
| 123 | w.szczytowe 23 | 312.4 | 254.0 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000 | 3 |
| 124 | w.szczytowe 24 | 312.1 | 246.8 | 1.7 | 0.0 | wszechkier. | 89.9 | 8.000 | 3 |
| 125 | a.p 1          | 279.1 | 163.9 | 0.5 | 0.0 | wszechkier. | 97.0 | 0.500 |   |

| Lp                                  | Symbol  | Początek            | Koniec              | LAW 8hD |
|-------------------------------------|---------|---------------------|---------------------|---------|
| 1hN  D0                             |         | x1 y1 z1  h1t       | x2 y2 z2   h2t      |         |
| ----- ----- ----- ----- ----- ----- |         |                     |                     |         |
| dBA                                 | dB      | m m m   m           | m m m   m           | dBA     |
| =====                               |         |                     |                     |         |
| 1                                   | r 1     | 402.2 201.4 1.0 0.0 | 351.8 223.3 1.0 0.0 | 76.0    |
| 2                                   | r 2     | 351.8 223.3 1.0 0.0 | 347.8 145.4 1.0 0.0 | 77.5    |
| 3                                   | r 3     | 347.8 145.4 1.0 0.0 | 219.9 150.6 1.0 0.0 | 79.7    |
| 4                                   | r 4     | 219.9 150.6 1.0 0.0 | 221.2 227.6 1.0 0.0 | 77.5    |
| 5                                   | r 5     | 221.2 227.6 1.0 0.0 | 351.5 224.4 1.0 0.0 | 79.8    |
| 6                                   | r noc 1 | 402.2 202.2 1.0 0.0 | 351.5 222.8 1.0 0.0 |         |
| 78.7                                | 3       |                     |                     |         |
| 7                                   | r noc 2 | 351.5 222.8 1.0 0.0 | 227.6 225.7 1.0 0.0 |         |
| 82.2                                | 3       |                     |                     |         |

|          |                |             | Obliczony       |         | I opcja ruchowa |                |          | II      |  |  |
|----------|----------------|-------------|-----------------|---------|-----------------|----------------|----------|---------|--|--|
| Lp       | Nazwa          | Długość     |                 |         |                 |                |          |         |  |  |
| Prędkość |                |             |                 |         |                 |                |          |         |  |  |
| poziom   |                |             |                 |         |                 |                |          |         |  |  |
| odcinka  | odcinka        |             | Typ             | Czas    | Moc aku-        | Liczba         | Typ      | Czas    |  |  |
| Moc aku- | Liczba         | mocy        | opcji           | trwania | styczna         | przejazdów     | opcji    | trwania |  |  |
| styczna  | przejazdów     | równoważny  | ruchowej        | opcji   | opcji           | w czasie oceny | ruchowej | opcji   |  |  |
| opcji    | w czasie oceny | źródła lin. |                 |         |                 |                |          |         |  |  |
| dB       |                | [m]         | [km/h]          | [s]     | dB              |                |          | [s]     |  |  |
| =====    |                |             |                 |         |                 |                |          |         |  |  |
| =====    |                |             |                 |         |                 |                |          |         |  |  |
| 1        | r 1            | 55.0        | P O R A D N I A |         |                 |                |          |         |  |  |
|          |                | 76.0        |                 |         |                 |                |          |         |  |  |
|          |                | 10          | M               | 19.78   | 96.5            | 13             |          |         |  |  |
| -----    |                |             |                 |         |                 |                |          |         |  |  |
| 2        | r 2            | 78.0        | P O R A D N I A |         |                 |                |          |         |  |  |
|          |                | 77.5        |                 |         |                 |                |          |         |  |  |
|          |                | 10          | M               | 28.08   | 96.5            | 13             |          |         |  |  |
| -----    |                |             |                 |         |                 |                |          |         |  |  |
| 3        | r 3            | 128.0       | P O R A D N I A |         |                 |                |          |         |  |  |
|          |                | 79.7        |                 |         |                 |                |          |         |  |  |
|          |                | 10          | M               | 46.08   | 96.5            | 13             |          |         |  |  |

[illegible]

|     |         |     |       |       |       |       |       |       |       |       |     |     |     |
|-----|---------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| 8   | EK-B    | 8   | 485.8 | 268.0 | 513.0 | 268.0 | 512.2 | 249.2 | 484.7 | 249.8 | 0.0 | 5.0 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 9   | EK-B    | 9   | 492.1 | 238.9 | 513.8 | 238.9 | 513.0 | 224.9 | 491.8 | 224.6 | 0.0 | 4.8 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 10  | EK-B    | 10  | 163.9 | 140.9 | 181.0 | 146.4 | 185.3 | 134.0 | 168.3 | 127.7 | 0.0 | 4.0 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 11  | kurniki | 1   | 226.2 | 223.8 | 239.2 | 223.1 | 235.7 | 152.2 | 223.6 | 152.5 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 12  | kurniki | 2   | 245.0 | 223.1 | 257.1 | 222.8 | 254.2 | 151.4 | 242.1 | 152.2 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 13  | kurniki | 3   | 263.0 | 222.0 | 275.4 | 221.7 | 272.2 | 150.9 | 260.3 | 150.9 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 14  | kurniki | 4   | 296.3 | 220.7 | 308.2 | 220.9 | 304.7 | 149.3 | 292.8 | 149.8 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 15  | kurniki | 5   | 314.5 | 220.2 | 326.9 | 220.2 | 323.8 | 148.8 | 311.3 | 149.1 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 16  | kurniki | 6   | 333.0 | 219.9 | 345.4 | 219.4 | 342.3 | 148.0 | 330.1 | 148.0 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 17  | kurniki | 7   | 315.6 | 283.1 | 387.7 | 279.6 | 387.2 | 266.7 | 315.0 | 270.6 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 18  | kurniki | 8   | 314.5 | 256.9 | 386.4 | 254.0 | 385.9 | 241.8 | 314.0 | 245.5 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 19  | kurniki | 9   | 214.3 | 274.6 | 284.4 | 270.9 | 283.8 | 259.3 | 214.1 | 262.7 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |
| 20  | kurniki | 10  | 213.0 | 250.0 | 283.6 | 246.3 | 283.1 | 234.4 | 212.8 | 238.4 | 0.0 | 4.5 | 0.0 |
| 1.0 | 0.8     | 1.0 | 0.8   |       |       |       |       |       |       |       |     |     |     |

### 13. Obszary zieleni

| Lp | Nazwa         | Wyso-<br>kość[m] | ht  | Współrzędne wierzchołków wieloboków zieleni[m] |       |       |       |       |       |       |       |   |   |
|----|---------------|------------------|-----|--|-------|-------|-------|-------|-------|-------|-------|---|---|
|    |               |                  |     | x  | y     | x     | y     | x     | y     | x     | y     | x | y |
| 1  | Szpaler drzew | 20.0             | 0.0 | 219.1  | 142.2 | 341.7 | 136.9 | 342.0 | 139.3 |       |       |   |   |
| 2  | Szpaler drzew | 25.0             | 0.0 | 333.3  | 104.7 | 332.5 | 96.2  | 192.7 | 104.4 | 192.7 | 112.1 |   |   |

### 14. Współrzędne wierzchołków wieloboku terenu zakładu

| Lp | Współrzędne wierzchołków |       |
|----|--------------------------|-------|
|    | x                        | y     |
|    | m                        | m     |
| 1  | 314.0                    | 369.0 |
| 2  | 66.0                     | 364.0 |
| 3  | 134.0                    | 160.0 |
| 4  | 193.0                    | 172.0 |
| 5  | 193.0                    | 105.0 |
| 6  | 332.0                    | 97.0  |
| 7  | 335.0                    | 135.0 |
| 8  | 350.0                    | 136.0 |
| 9  | 355.0                    | 213.0 |
| 10 | 360.0                    | 215.0 |
| 11 | 402.0                    | 198.0 |
| 12 | 407.0                    | 286.0 |
| 13 | 418.0                    | 285.0 |
| 14 | 421.0                    | 307.0 |
| 15 | 354.0                    | 311.0 |
| 16 | 359.0                    | 366.0 |

Koniec danych

### LAeq , pory dnia i nocy

| Nr<br>punktu | Współrzędne punktów |       |     | Wysokość<br>terenu | Poziom dźwięku w porze |       |
|--------------|---------------------|-------|-----|--------------------|------------------------|-------|
|              | x                   | y     | z   |                    | dnia                   | nocy  |
|              | m                   | m     | m   | m                  | dB(A)                  | dB(A) |
| 1            | 0.0                 | 520.0 | 4.0 | 0.0                | 40.4                   | 33.2  |
| 2            | 20.0                | 520.0 | 4.0 | 0.0                | 40.7                   | 33.5  |
| 3            | 40.0                | 520.0 | 4.0 | 0.0                | 41.0                   | 33.8  |
| 4            | 60.0                | 520.0 | 4.0 | 0.0                | 41.2                   | 34.0  |

|    |       |       |     |     |      |      |
|----|-------|-------|-----|-----|------|------|
| 5  | 80.0  | 520.0 | 4.0 | 0.0 | 41.5 | 34.2 |
| 6  | 100.0 | 520.0 | 4.0 | 0.0 | 41.8 | 34.7 |
| 7  | 120.0 | 520.0 | 4.0 | 0.0 | 42.1 | 35.0 |
| 8  | 140.0 | 520.0 | 4.0 | 0.0 | 42.3 | 35.1 |
| 9  | 160.0 | 520.0 | 4.0 | 0.0 | 42.5 | 35.4 |
| 10 | 180.0 | 520.0 | 4.0 | 0.0 | 42.7 | 35.7 |
| 11 | 200.0 | 520.0 | 4.0 | 0.0 | 42.9 | 35.9 |
| 12 | 220.0 | 520.0 | 4.0 | 0.0 | 43.0 | 36.0 |
| 13 | 240.0 | 520.0 | 4.0 | 0.0 | 43.1 | 36.2 |
| 14 | 260.0 | 520.0 | 4.0 | 0.0 | 42.9 | 36.3 |
| 15 | 280.0 | 520.0 | 4.0 | 0.0 | 42.5 | 36.3 |
| 16 | 300.0 | 520.0 | 4.0 | 0.0 | 42.3 | 36.1 |
| 17 | 320.0 | 520.0 | 4.0 | 0.0 | 42.1 | 35.8 |
| 18 | 340.0 | 520.0 | 4.0 | 0.0 | 41.8 | 35.7 |
| 19 | 360.0 | 520.0 | 4.0 | 0.0 | 41.1 | 35.5 |
| 20 | 380.0 | 520.0 | 4.0 | 0.0 | 40.2 | 35.0 |
| 21 | 400.0 | 520.0 | 4.0 | 0.0 | 39.7 | 34.7 |
| 22 | 420.0 | 520.0 | 4.0 | 0.0 | 39.4 | 34.5 |
| 23 | 440.0 | 520.0 | 4.0 | 0.0 | 39.0 | 34.1 |
| 24 | 460.0 | 520.0 | 4.0 | 0.0 | 38.3 | 33.7 |
| 25 | 480.0 | 520.0 | 4.0 | 0.0 | 37.4 | 33.2 |
| 26 | 500.0 | 520.0 | 4.0 | 0.0 | 36.8 | 32.6 |
| 27 | 520.0 | 520.0 | 4.0 | 0.0 | 36.3 | 32.2 |
| 28 | 540.0 | 520.0 | 4.0 | 0.0 | 35.8 | 31.7 |
| 29 | 0.0   | 500.0 | 4.0 | 0.0 | 40.3 | 33.2 |
| 30 | 20.0  | 500.0 | 4.0 | 0.0 | 40.6 | 33.5 |
| 31 | 40.0  | 500.0 | 4.0 | 0.0 | 40.9 | 33.7 |
| 32 | 60.0  | 500.0 | 4.0 | 0.0 | 41.2 | 34.0 |
| 33 | 80.0  | 500.0 | 4.0 | 0.0 | 41.5 | 34.3 |
| 34 | 100.0 | 500.0 | 4.0 | 0.0 | 41.8 | 34.6 |
| 35 | 120.0 | 500.0 | 4.0 | 0.0 | 42.2 | 35.0 |
| 36 | 140.0 | 500.0 | 4.0 | 0.0 | 42.4 | 35.2 |
| 37 | 160.0 | 500.0 | 4.0 | 0.0 | 42.6 | 35.4 |
| 38 | 180.0 | 500.0 | 4.0 | 0.0 | 42.9 | 35.8 |
| 39 | 200.0 | 500.0 | 4.0 | 0.0 | 43.1 | 36.0 |
| 40 | 220.0 | 500.0 | 4.0 | 0.0 | 43.2 | 36.2 |
| 41 | 240.0 | 500.0 | 4.0 | 0.0 | 43.3 | 36.4 |
| 42 | 260.0 | 500.0 | 4.0 | 0.0 | 43.1 | 36.5 |
| 43 | 280.0 | 500.0 | 4.0 | 0.0 | 42.8 | 36.5 |
| 44 | 300.0 | 500.0 | 4.0 | 0.0 | 42.5 | 36.3 |
| 45 | 320.0 | 500.0 | 4.0 | 0.0 | 42.4 | 36.2 |
| 46 | 340.0 | 500.0 | 4.0 | 0.0 | 42.0 | 36.0 |
| 47 | 360.0 | 500.0 | 4.0 | 0.0 | 41.2 | 35.8 |
| 48 | 380.0 | 500.0 | 4.0 | 0.0 | 40.4 | 35.3 |
| 49 | 400.0 | 500.0 | 4.0 | 0.0 | 40.0 | 35.0 |
| 50 | 420.0 | 500.0 | 4.0 | 0.0 | 39.5 | 34.7 |
| 51 | 440.0 | 500.0 | 4.0 | 0.0 | 38.9 | 34.2 |
| 52 | 460.0 | 500.0 | 4.0 | 0.0 | 38.0 | 33.8 |
| 53 | 480.0 | 500.0 | 4.0 | 0.0 | 37.4 | 33.1 |
| 54 | 500.0 | 500.0 | 4.0 | 0.0 | 36.8 | 32.6 |
| 55 | 520.0 | 500.0 | 4.0 | 0.0 | 36.4 | 32.3 |
| 56 | 540.0 | 500.0 | 4.0 | 0.0 | 36.1 | 31.7 |
| 57 | 0.0   | 480.0 | 4.0 | 0.0 | 40.7 | 33.5 |
| 58 | 20.0  | 480.0 | 4.0 | 0.0 | 41.0 | 33.8 |
| 59 | 40.0  | 480.0 | 4.0 | 0.0 | 41.3 | 34.1 |
| 60 | 60.0  | 480.0 | 4.0 | 0.0 | 41.7 | 34.4 |
| 61 | 80.0  | 480.0 | 4.0 | 0.0 | 42.0 | 34.7 |
| 62 | 100.0 | 480.0 | 4.0 | 0.0 | 42.5 | 35.1 |
| 63 | 120.0 | 480.0 | 4.0 | 0.0 | 42.9 | 35.5 |
| 64 | 140.0 | 480.0 | 4.0 | 0.0 | 43.1 | 35.9 |
| 65 | 160.0 | 480.0 | 4.0 | 0.0 | 43.4 | 36.1 |
| 66 | 180.0 | 480.0 | 4.0 | 0.0 | 43.7 | 36.6 |
| 67 | 200.0 | 480.0 | 4.0 | 0.0 | 44.0 | 36.8 |
| 68 | 220.0 | 480.0 | 4.0 | 0.0 | 44.2 | 37.1 |
| 69 | 240.0 | 480.0 | 4.0 | 0.0 | 44.2 | 37.4 |
| 70 | 260.0 | 480.0 | 4.0 | 0.0 | 44.1 | 37.6 |
| 71 | 280.0 | 480.0 | 4.0 | 0.0 | 43.7 | 37.6 |
| 72 | 300.0 | 480.0 | 4.0 | 0.0 | 43.5 | 37.3 |
| 73 | 320.0 | 480.0 | 4.0 | 0.0 | 43.2 | 37.2 |
| 74 | 340.0 | 480.0 | 4.0 | 0.0 | 42.7 | 36.8 |
| 75 | 360.0 | 480.0 | 4.0 | 0.0 | 41.8 | 36.4 |
| 76 | 380.0 | 480.0 | 4.0 | 0.0 | 41.0 | 35.9 |
| 77 | 400.0 | 480.0 | 4.0 | 0.0 | 40.6 | 35.7 |
| 78 | 420.0 | 480.0 | 4.0 | 0.0 | 39.8 | 35.3 |

|     |       |       |     |     |      |      |
|-----|-------|-------|-----|-----|------|------|
| 79  | 440.0 | 480.0 | 4.0 | 0.0 | 39.2 | 34.6 |
| 80  | 460.0 | 480.0 | 4.0 | 0.0 | 38.3 | 34.1 |
| 81  | 480.0 | 480.0 | 4.0 | 0.0 | 37.6 | 33.4 |
| 82  | 500.0 | 480.0 | 4.0 | 0.0 | 37.1 | 33.1 |
| 83  | 520.0 | 480.0 | 4.0 | 0.0 | 36.8 | 32.5 |
| 84  | 540.0 | 480.0 | 4.0 | 0.0 | 36.3 | 31.9 |
| 85  | 0.0   | 460.0 | 4.0 | 0.0 | 41.0 | 33.9 |
| 86  | 20.0  | 460.0 | 4.0 | 0.0 | 41.5 | 34.3 |
| 87  | 40.0  | 460.0 | 4.0 | 0.0 | 41.9 | 34.6 |
| 88  | 60.0  | 460.0 | 4.0 | 0.0 | 42.2 | 34.9 |
| 89  | 80.0  | 460.0 | 4.0 | 0.0 | 42.7 | 35.4 |
| 90  | 100.0 | 460.0 | 4.0 | 0.0 | 43.1 | 35.8 |
| 91  | 120.0 | 460.0 | 4.0 | 0.0 | 43.5 | 36.1 |
| 92  | 140.0 | 460.0 | 4.0 | 0.0 | 43.8 | 36.5 |
| 93  | 160.0 | 460.0 | 4.0 | 0.0 | 44.1 | 36.8 |
| 94  | 180.0 | 460.0 | 4.0 | 0.0 | 44.5 | 37.2 |
| 95  | 200.0 | 460.0 | 4.0 | 0.0 | 44.7 | 37.6 |
| 96  | 220.0 | 460.0 | 4.0 | 0.0 | 44.9 | 37.9 |
| 97  | 240.0 | 460.0 | 4.0 | 0.0 | 44.9 | 38.2 |
| 98  | 260.0 | 460.0 | 4.0 | 0.0 | 44.6 | 38.3 |
| 99  | 280.0 | 460.0 | 4.0 | 0.0 | 44.5 | 38.4 |
| 100 | 300.0 | 460.0 | 4.0 | 0.0 | 44.3 | 38.1 |
| 101 | 320.0 | 460.0 | 4.0 | 0.0 | 44.0 | 38.0 |
| 102 | 340.0 | 460.0 | 4.0 | 0.0 | 43.4 | 37.6 |
| 103 | 360.0 | 460.0 | 4.0 | 0.0 | 42.3 | 37.2 |
| 104 | 380.0 | 460.0 | 4.0 | 0.0 | 41.6 | 36.6 |
| 105 | 400.0 | 460.0 | 4.0 | 0.0 | 40.9 | 36.3 |
| 106 | 420.0 | 460.0 | 4.0 | 0.0 | 40.3 | 35.7 |
| 107 | 440.0 | 460.0 | 4.0 | 0.0 | 39.2 | 35.0 |
| 108 | 460.0 | 460.0 | 4.0 | 0.0 | 38.5 | 34.4 |
| 109 | 480.0 | 460.0 | 4.0 | 0.0 | 38.0 | 33.9 |
| 110 | 500.0 | 460.0 | 4.0 | 0.0 | 37.4 | 33.3 |
| 111 | 520.0 | 460.0 | 4.0 | 0.0 | 37.0 | 32.6 |
| 112 | 540.0 | 460.0 | 4.0 | 0.0 | 36.4 | 32.1 |
| 113 | 0.0   | 440.0 | 4.0 | 0.0 | 41.5 | 34.4 |
| 114 | 20.0  | 440.0 | 4.0 | 0.0 | 41.9 | 34.7 |
| 115 | 40.0  | 440.0 | 4.0 | 0.0 | 42.3 | 35.0 |
| 116 | 60.0  | 440.0 | 4.0 | 0.0 | 42.7 | 35.4 |
| 117 | 80.0  | 440.0 | 4.0 | 0.0 | 43.2 | 35.8 |
| 118 | 100.0 | 440.0 | 4.0 | 0.0 | 43.7 | 36.2 |
| 119 | 120.0 | 440.0 | 4.0 | 0.0 | 44.1 | 36.6 |
| 120 | 140.0 | 440.0 | 4.0 | 0.0 | 44.4 | 37.0 |
| 121 | 160.0 | 440.0 | 4.0 | 0.0 | 44.8 | 37.3 |
| 122 | 180.0 | 440.0 | 4.0 | 0.0 | 45.2 | 37.8 |
| 123 | 200.0 | 440.0 | 4.0 | 0.0 | 45.5 | 38.1 |
| 124 | 220.0 | 440.0 | 4.0 | 0.0 | 45.7 | 38.3 |
| 125 | 240.0 | 440.0 | 4.0 | 0.0 | 45.5 | 38.6 |
| 126 | 260.0 | 440.0 | 4.0 | 0.0 | 45.3 | 38.9 |
| 127 | 280.0 | 440.0 | 4.0 | 0.0 | 45.2 | 38.9 |
| 128 | 300.0 | 440.0 | 4.0 | 0.0 | 45.0 | 38.6 |
| 129 | 320.0 | 440.0 | 4.0 | 0.0 | 44.8 | 38.4 |
| 130 | 340.0 | 440.0 | 4.0 | 0.0 | 44.0 | 38.1 |
| 131 | 360.0 | 440.0 | 4.0 | 0.0 | 42.9 | 37.6 |
| 132 | 380.0 | 440.0 | 4.0 | 0.0 | 41.9 | 37.2 |
| 133 | 400.0 | 440.0 | 4.0 | 0.0 | 41.4 | 36.9 |
| 134 | 420.0 | 440.0 | 4.0 | 0.0 | 40.4 | 36.2 |
| 135 | 440.0 | 440.0 | 4.0 | 0.0 | 39.5 | 35.4 |
| 136 | 460.0 | 440.0 | 4.0 | 0.0 | 38.9 | 34.8 |
| 137 | 480.0 | 440.0 | 4.0 | 0.0 | 38.2 | 34.1 |
| 138 | 500.0 | 440.0 | 4.0 | 0.0 | 37.7 | 33.5 |
| 139 | 520.0 | 440.0 | 4.0 | 0.0 | 37.1 | 32.8 |
| 140 | 540.0 | 440.0 | 4.0 | 0.0 | 36.6 | 32.3 |
| 141 | 0.0   | 420.0 | 4.0 | 0.0 | 41.7 | 34.7 |
| 142 | 20.0  | 420.0 | 4.0 | 0.0 | 42.2 | 35.0 |
| 143 | 40.0  | 420.0 | 4.0 | 0.0 | 42.7 | 35.3 |
| 144 | 60.0  | 420.0 | 4.0 | 0.0 | 43.1 | 35.7 |
| 145 | 80.0  | 420.0 | 4.0 | 0.0 | 43.6 | 36.1 |
| 146 | 100.0 | 420.0 | 4.0 | 0.0 | 44.1 | 36.5 |
| 147 | 120.0 | 420.0 | 4.0 | 0.0 | 44.6 | 36.9 |
| 148 | 140.0 | 420.0 | 4.0 | 0.0 | 45.1 | 37.2 |
| 149 | 160.0 | 420.0 | 4.0 | 0.0 | 45.5 | 37.5 |
| 150 | 180.0 | 420.0 | 4.0 | 0.0 | 45.8 | 37.9 |
| 151 | 200.0 | 420.0 | 4.0 | 0.0 | 46.2 | 38.2 |
| 152 | 220.0 | 420.0 | 4.0 | 0.0 | 46.4 | 38.4 |



|     |       |       |     |     |      |      |
|-----|-------|-------|-----|-----|------|------|
| 153 | 240.0 | 420.0 | 4.0 | 0.0 | 46.2 | 38.8 |
| 154 | 260.0 | 420.0 | 4.0 | 0.0 | 45.9 | 39.1 |
| 155 | 280.0 | 420.0 | 4.0 | 0.0 | 45.9 | 39.2 |
| 156 | 300.0 | 420.0 | 4.0 | 0.0 | 45.8 | 39.1 |
| 157 | 320.0 | 420.0 | 4.0 | 0.0 | 45.8 | 38.9 |
| 158 | 340.0 | 420.0 | 4.0 | 0.0 | 44.7 | 38.8 |
| 159 | 360.0 | 420.0 | 4.0 | 0.0 | 43.1 | 38.1 |
| 160 | 380.0 | 420.0 | 4.0 | 0.0 | 42.4 | 37.6 |
| 161 | 400.0 | 420.0 | 4.0 | 0.0 | 42.0 | 37.4 |
| 162 | 420.0 | 420.0 | 4.0 | 0.0 | 40.8 | 36.7 |
| 163 | 440.0 | 420.0 | 4.0 | 0.0 | 39.9 | 35.9 |
| 164 | 460.0 | 420.0 | 4.0 | 0.0 | 39.2 | 35.1 |
| 165 | 480.0 | 420.0 | 4.0 | 0.0 | 38.5 | 34.4 |
| 166 | 500.0 | 420.0 | 4.0 | 0.0 | 37.9 | 33.6 |
| 167 | 520.0 | 420.0 | 4.0 | 0.0 | 37.2 | 33.0 |
| 168 | 540.0 | 420.0 | 4.0 | 0.0 | 37.4 | 32.5 |
| 169 | 0.0   | 400.0 | 4.0 | 0.0 | 41.7 | 34.7 |
| 170 | 20.0  | 400.0 | 4.0 | 0.0 | 42.3 | 35.3 |
| 171 | 40.0  | 400.0 | 4.0 | 0.0 | 43.0 | 35.7 |
| 172 | 60.0  | 400.0 | 4.0 | 0.0 | 43.6 | 36.1 |
| 173 | 80.0  | 400.0 | 4.0 | 0.0 | 44.1 | 36.4 |
| 174 | 100.0 | 400.0 | 4.0 | 0.0 | 44.7 | 36.9 |
| 175 | 120.0 | 400.0 | 4.0 | 0.0 | 45.2 | 37.4 |
| 176 | 140.0 | 400.0 | 4.0 | 0.0 | 45.8 | 37.6 |
| 177 | 160.0 | 400.0 | 4.0 | 0.0 | 46.3 | 38.1 |
| 178 | 180.0 | 400.0 | 4.0 | 0.0 | 46.7 | 38.4 |
| 179 | 200.0 | 400.0 | 4.0 | 0.0 | 47.1 | 38.9 |
| 180 | 220.0 | 400.0 | 4.0 | 0.0 | 47.4 | 39.2 |
| 181 | 240.0 | 400.0 | 4.0 | 0.0 | 47.1 | 39.6 |
| 182 | 260.0 | 400.0 | 4.0 | 0.0 | 46.8 | 40.0 |
| 183 | 280.0 | 400.0 | 4.0 | 0.0 | 46.9 | 40.1 |
| 184 | 300.0 | 400.0 | 4.0 | 0.0 | 46.9 | 39.9 |
| 185 | 320.0 | 400.0 | 4.0 | 0.0 | 46.8 | 39.7 |
| 186 | 340.0 | 400.0 | 4.0 | 0.0 | 45.1 | 39.3 |
| 187 | 360.0 | 400.0 | 4.0 | 0.0 | 43.7 | 38.6 |
| 188 | 380.0 | 400.0 | 4.0 | 0.0 | 43.0 | 38.2 |
| 189 | 400.0 | 400.0 | 4.0 | 0.0 | 42.0 | 37.7 |
| 190 | 420.0 | 400.0 | 4.0 | 0.0 | 40.9 | 36.8 |
| 191 | 440.0 | 400.0 | 4.0 | 0.0 | 40.0 | 36.0 |
| 192 | 460.0 | 400.0 | 4.0 | 0.0 | 39.3 | 35.1 |
| 193 | 480.0 | 400.0 | 4.0 | 0.0 | 38.6 | 34.4 |
| 194 | 500.0 | 400.0 | 4.0 | 0.0 | 37.9 | 33.7 |
| 195 | 520.0 | 400.0 | 4.0 | 0.0 | 37.9 | 33.1 |
| 196 | 540.0 | 400.0 | 4.0 | 0.0 | 38.1 | 32.8 |
| 197 | 0.0   | 380.0 | 4.0 | 0.0 | 41.9 | 35.0 |
| 198 | 20.0  | 380.0 | 4.0 | 0.0 | 42.5 | 35.4 |
| 199 | 40.0  | 380.0 | 4.0 | 0.0 | 43.1 | 35.9 |
| 200 | 60.0  | 380.0 | 4.0 | 0.0 | 44.0 | 36.6 |
| 201 | 80.0  | 380.0 | 4.0 | 0.0 | 44.7 | 37.0 |
| 202 | 100.0 | 380.0 | 4.0 | 0.0 | 45.3 | 37.6 |
| 203 | 120.0 | 380.0 | 4.0 | 0.0 | 45.9 | 38.0 |
| 204 | 140.0 | 380.0 | 4.0 | 0.0 | 46.6 | 38.4 |
| 205 | 160.0 | 380.0 | 4.0 | 0.0 | 47.2 | 38.9 |
| 206 | 180.0 | 380.0 | 4.0 | 0.0 | 47.8 | 39.3 |
| 207 | 200.0 | 380.0 | 4.0 | 0.0 | 48.2 | 39.8 |
| 208 | 220.0 | 380.0 | 4.0 | 0.0 | 48.5 | 40.2 |
| 209 | 240.0 | 380.0 | 4.0 | 0.0 | 47.9 | 40.6 |
| 210 | 260.0 | 380.0 | 4.0 | 0.0 | 48.0 | 41.1 |
| 211 | 280.0 | 380.0 | 4.0 | 0.0 | 48.1 | 41.2 |
| 212 | 300.0 | 380.0 | 4.0 | 0.0 | 48.2 | 41.0 |
| 213 | 320.0 | 380.0 | 4.0 | 0.0 | 48.1 | 40.9 |
| 214 | 340.0 | 380.0 | 4.0 | 0.0 | 45.8 | 40.2 |
| 215 | 360.0 | 380.0 | 4.0 | 0.0 | 44.7 | 39.7 |
| 216 | 380.0 | 380.0 | 4.0 | 0.0 | 43.3 | 39.2 |
| 217 | 400.0 | 380.0 | 4.0 | 0.0 | 42.3 | 38.2 |
| 218 | 420.0 | 380.0 | 4.0 | 0.0 | 41.2 | 37.2 |
| 219 | 440.0 | 380.0 | 4.0 | 0.0 | 40.2 | 36.2 |
| 220 | 460.0 | 380.0 | 4.0 | 0.0 | 39.5 | 35.4 |
| 221 | 480.0 | 380.0 | 4.0 | 0.0 | 38.9 | 34.4 |
| 222 | 500.0 | 380.0 | 4.0 | 0.0 | 38.8 | 33.8 |
| 223 | 520.0 | 380.0 | 4.0 | 0.0 | 38.9 | 33.8 |
| 224 | 540.0 | 380.0 | 4.0 | 0.0 | 38.7 | 33.4 |
| 225 | 0.0   | 360.0 | 4.0 | 0.0 | 42.2 | 35.3 |
| 226 | 20.0  | 360.0 | 4.0 | 0.0 | 42.7 | 35.6 |

|     |       |       |     |     |      |      |
|-----|-------|-------|-----|-----|------|------|
| 227 | 40.0  | 360.0 | 4.0 | 0.0 | 43.3 | 36.1 |
| 228 | 60.0  | 360.0 | 4.0 | 0.0 | 44.0 | 36.7 |
| 243 | 360.0 | 360.0 | 4.0 | 0.0 | 45.9 | 41.0 |
| 244 | 380.0 | 360.0 | 4.0 | 0.0 | 44.0 | 40.0 |
| 245 | 400.0 | 360.0 | 4.0 | 0.0 | 42.6 | 38.6 |
| 246 | 420.0 | 360.0 | 4.0 | 0.0 | 41.4 | 37.4 |
| 247 | 440.0 | 360.0 | 4.0 | 0.0 | 40.4 | 36.3 |
| 248 | 460.0 | 360.0 | 4.0 | 0.0 | 40.0 | 35.4 |
| 249 | 480.0 | 360.0 | 4.0 | 0.0 | 39.6 | 34.8 |
| 250 | 500.0 | 360.0 | 4.0 | 0.0 | 39.9 | 34.9 |
| 251 | 520.0 | 360.0 | 4.0 | 0.0 | 39.5 | 34.8 |
| 252 | 540.0 | 360.0 | 4.0 | 0.0 | 38.9 | 34.4 |
| 253 | 0.0   | 340.0 | 4.0 | 0.0 | 42.5 | 35.5 |
| 254 | 20.0  | 340.0 | 4.0 | 0.0 | 43.1 | 36.0 |
| 255 | 40.0  | 340.0 | 4.0 | 0.0 | 43.7 | 36.5 |
| 256 | 60.0  | 340.0 | 4.0 | 0.0 | 44.4 | 37.0 |
| 271 | 360.0 | 340.0 | 4.0 | 0.0 | 46.7 | 42.7 |
| 272 | 380.0 | 340.0 | 4.0 | 0.0 | 43.3 | 39.3 |
| 273 | 400.0 | 340.0 | 4.0 | 0.0 | 41.8 | 37.7 |
| 274 | 420.0 | 340.0 | 4.0 | 0.0 | 41.2 | 37.0 |
| 275 | 440.0 | 340.0 | 4.0 | 0.0 | 40.9 | 36.3 |
| 276 | 460.0 | 340.0 | 4.0 | 0.0 | 40.6 | 35.7 |
| 277 | 480.0 | 340.0 | 4.0 | 0.0 | 40.9 | 36.1 |
| 278 | 500.0 | 340.0 | 4.0 | 0.0 | 40.6 | 36.2 |
| 279 | 520.0 | 340.0 | 4.0 | 0.0 | 40.0 | 35.5 |
| 280 | 540.0 | 340.0 | 4.0 | 0.0 | 39.4 | 35.1 |
| 281 | 0.0   | 320.0 | 4.0 | 0.0 | 42.8 | 35.7 |
| 282 | 20.0  | 320.0 | 4.0 | 0.0 | 43.3 | 36.1 |
| 283 | 40.0  | 320.0 | 4.0 | 0.0 | 44.0 | 36.8 |
| 284 | 60.0  | 320.0 | 4.0 | 0.0 | 44.8 | 37.5 |
| 285 | 80.0  | 320.0 | 4.0 | 0.0 | 45.7 | 38.2 |
| 299 | 360.0 | 320.0 | 4.0 | 0.0 | 48.8 | 45.2 |
| 304 | 460.0 | 320.0 | 4.0 | 0.0 | 40.9 | 36.2 |
| 305 | 480.0 | 320.0 | 4.0 | 0.0 | 42.2 | 38.1 |
| 306 | 500.0 | 320.0 | 4.0 | 0.0 | 41.5 | 37.5 |
| 307 | 520.0 | 320.0 | 4.0 | 0.0 | 40.4 | 36.3 |
| 308 | 540.0 | 320.0 | 4.0 | 0.0 | 39.5 | 35.4 |
| 309 | 0.0   | 300.0 | 4.0 | 0.0 | 43.0 | 35.9 |
| 310 | 20.0  | 300.0 | 4.0 | 0.0 | 43.6 | 36.2 |
| 311 | 40.0  | 300.0 | 4.0 | 0.0 | 44.3 | 36.8 |
| 312 | 60.0  | 300.0 | 4.0 | 0.0 | 45.1 | 37.4 |
| 313 | 80.0  | 300.0 | 4.0 | 0.0 | 46.1 | 38.3 |
| 331 | 440.0 | 300.0 | 4.0 | 0.0 | 44.4 | 40.4 |
| 332 | 460.0 | 300.0 | 4.0 | 0.0 | 43.1 | 39.3 |
| 333 | 480.0 | 300.0 | 4.0 | 0.0 | 41.3 | 37.1 |
| 334 | 500.0 | 300.0 | 4.0 | 0.0 | 40.0 | 35.7 |
| 335 | 520.0 | 300.0 | 4.0 | 0.0 | 39.2 | 34.9 |
| 336 | 540.0 | 300.0 | 4.0 | 0.0 | 38.6 | 34.2 |
| 337 | 0.0   | 280.0 | 4.0 | 0.0 | 43.3 | 36.2 |
| 338 | 20.0  | 280.0 | 4.0 | 0.0 | 43.9 | 36.5 |
| 339 | 40.0  | 280.0 | 4.0 | 0.0 | 44.6 | 37.1 |
| 340 | 60.0  | 280.0 | 4.0 | 0.0 | 45.5 | 37.5 |
| 341 | 80.0  | 280.0 | 4.0 | 0.0 | 46.4 | 38.4 |
| 358 | 420.0 | 280.0 | 4.0 | 0.0 | 46.6 | 42.3 |
| 359 | 440.0 | 280.0 | 4.0 | 0.0 | 45.2 | 40.8 |
| 360 | 460.0 | 280.0 | 4.0 | 0.0 | 39.3 | 34.7 |
| 361 | 480.0 | 280.0 | 4.0 | 0.0 | 40.5 | 36.2 |
| 362 | 500.0 | 280.0 | 4.0 | 0.0 | 39.7 | 35.3 |
| 363 | 520.0 | 280.0 | 4.0 | 0.0 | 38.8 | 34.5 |
| 364 | 540.0 | 280.0 | 4.0 | 0.0 | 38.1 | 33.7 |
| 365 | 0.0   | 260.0 | 4.0 | 0.0 | 43.8 | 36.0 |
| 366 | 20.0  | 260.0 | 4.0 | 0.0 | 44.1 | 36.4 |
| 367 | 40.0  | 260.0 | 4.0 | 0.0 | 44.6 | 37.2 |
| 368 | 60.0  | 260.0 | 4.0 | 0.0 | 45.5 | 37.7 |
| 369 | 80.0  | 260.0 | 4.0 | 0.0 | 46.6 | 38.7 |
| 370 | 100.0 | 260.0 | 4.0 | 0.0 | 47.8 | 39.7 |
| 386 | 420.0 | 260.0 | 4.0 | 0.0 | 47.0 | 43.5 |
| 387 | 440.0 | 260.0 | 4.0 | 0.0 | 45.2 | 41.7 |
| 388 | 460.0 | 260.0 | 4.0 | 0.0 | 39.4 | 34.9 |
| 389 | 480.0 | 260.0 | 4.0 | 0.0 | 36.2 | 31.0 |
| 391 | 520.0 | 260.0 | 4.0 | 0.0 | 37.1 | 32.2 |
| 392 | 540.0 | 260.0 | 4.0 | 0.0 | 38.2 | 33.7 |
| 393 | 0.0   | 240.0 | 4.0 | 0.0 | 43.7 | 35.9 |
| 394 | 20.0  | 240.0 | 4.0 | 0.0 | 44.3 | 36.3 |

|     |       |       |     |     |      |      |
|-----|-------|-------|-----|-----|------|------|
| 395 | 40.0  | 240.0 | 4.0 | 0.0 | 44.9 | 37.0 |
| 396 | 60.0  | 240.0 | 4.0 | 0.0 | 45.4 | 37.7 |
| 397 | 80.0  | 240.0 | 4.0 | 0.0 | 46.4 | 38.5 |
| 398 | 100.0 | 240.0 | 4.0 | 0.0 | 47.6 | 39.6 |
| 414 | 420.0 | 240.0 | 4.0 | 0.0 | 47.1 | 44.1 |
| 415 | 440.0 | 240.0 | 4.0 | 0.0 | 45.4 | 42.3 |
| 416 | 460.0 | 240.0 | 4.0 | 0.0 | 39.6 | 35.3 |
| 417 | 480.0 | 240.0 | 4.0 | 0.0 | 36.8 | 31.5 |
| 418 | 500.0 | 240.0 | 4.0 | 0.0 | 39.0 | 34.7 |
| 419 | 520.0 | 240.0 | 4.0 | 0.0 | 38.4 | 34.1 |
| 420 | 540.0 | 240.0 | 4.0 | 0.0 | 38.3 | 33.9 |
| 421 | 0.0   | 220.0 | 4.0 | 0.0 | 43.2 | 35.8 |
| 422 | 20.0  | 220.0 | 4.0 | 0.0 | 44.2 | 36.2 |
| 423 | 40.0  | 220.0 | 4.0 | 0.0 | 45.0 | 37.0 |
| 424 | 60.0  | 220.0 | 4.0 | 0.0 | 45.8 | 37.7 |
| 425 | 80.0  | 220.0 | 4.0 | 0.0 | 46.3 | 38.7 |
| 426 | 100.0 | 220.0 | 4.0 | 0.0 | 47.4 | 39.8 |
| 442 | 420.0 | 220.0 | 4.0 | 0.0 | 47.1 | 44.2 |
| 443 | 440.0 | 220.0 | 4.0 | 0.0 | 45.7 | 42.4 |
| 444 | 460.0 | 220.0 | 4.0 | 0.0 | 39.7 | 35.1 |
| 445 | 480.0 | 220.0 | 4.0 | 0.0 | 40.9 | 36.6 |
| 446 | 500.0 | 220.0 | 4.0 | 0.0 | 39.8 | 35.6 |
| 447 | 520.0 | 220.0 | 4.0 | 0.0 | 39.0 | 34.6 |
| 448 | 540.0 | 220.0 | 4.0 | 0.0 | 38.5 | 33.9 |
| 449 | 0.0   | 200.0 | 4.0 | 0.0 | 43.3 | 36.0 |
| 450 | 20.0  | 200.0 | 4.0 | 0.0 | 43.8 | 36.4 |
| 451 | 40.0  | 200.0 | 4.0 | 0.0 | 44.8 | 37.2 |
| 452 | 60.0  | 200.0 | 4.0 | 0.0 | 45.9 | 38.0 |
| 453 | 80.0  | 200.0 | 4.0 | 0.0 | 46.8 | 38.9 |
| 454 | 100.0 | 200.0 | 4.0 | 0.0 | 47.4 | 39.9 |
| 455 | 120.0 | 200.0 | 4.0 | 0.0 | 48.3 | 40.5 |
| 467 | 360.0 | 200.0 | 4.0 | 0.0 | 52.1 | 48.7 |
| 468 | 380.0 | 200.0 | 4.0 | 0.0 | 51.5 | 49.5 |
| 470 | 420.0 | 200.0 | 4.0 | 0.0 | 47.5 | 44.5 |
| 471 | 440.0 | 200.0 | 4.0 | 0.0 | 46.2 | 42.7 |
| 472 | 460.0 | 200.0 | 4.0 | 0.0 | 43.1 | 39.1 |
| 473 | 480.0 | 200.0 | 4.0 | 0.0 | 42.7 | 38.7 |
| 474 | 500.0 | 200.0 | 4.0 | 0.0 | 41.5 | 37.4 |
| 475 | 520.0 | 200.0 | 4.0 | 0.0 | 40.6 | 36.3 |
| 476 | 540.0 | 200.0 | 4.0 | 0.0 | 40.2 | 35.9 |
| 477 | 0.0   | 180.0 | 4.0 | 0.0 | 43.8 | 35.9 |
| 478 | 20.0  | 180.0 | 4.0 | 0.0 | 44.2 | 36.2 |
| 479 | 40.0  | 180.0 | 4.0 | 0.0 | 44.9 | 36.9 |
| 480 | 60.0  | 180.0 | 4.0 | 0.0 | 45.6 | 37.7 |
| 481 | 80.0  | 180.0 | 4.0 | 0.0 | 46.8 | 38.7 |
| 482 | 100.0 | 180.0 | 4.0 | 0.0 | 47.8 | 39.6 |
| 483 | 120.0 | 180.0 | 4.0 | 0.0 | 48.6 | 40.2 |
| 495 | 360.0 | 180.0 | 4.0 | 0.0 | 51.4 | 47.0 |
| 496 | 380.0 | 180.0 | 4.0 | 0.0 | 50.6 | 47.1 |
| 497 | 400.0 | 180.0 | 4.0 | 0.0 | 48.6 | 45.2 |
| 498 | 420.0 | 180.0 | 4.0 | 0.0 | 46.8 | 43.4 |
| 499 | 440.0 | 180.0 | 4.0 | 0.0 | 45.5 | 41.8 |
| 500 | 460.0 | 180.0 | 4.0 | 0.0 | 44.5 | 40.7 |
| 501 | 480.0 | 180.0 | 4.0 | 0.0 | 43.4 | 39.6 |
| 502 | 500.0 | 180.0 | 4.0 | 0.0 | 42.2 | 38.1 |
| 503 | 520.0 | 180.0 | 4.0 | 0.0 | 41.2 | 37.0 |
| 504 | 540.0 | 180.0 | 4.0 | 0.0 | 40.4 | 36.0 |
| 505 | 0.0   | 160.0 | 4.0 | 0.0 | 44.2 | 35.7 |
| 506 | 20.0  | 160.0 | 4.0 | 0.0 | 44.8 | 35.9 |
| 507 | 40.0  | 160.0 | 4.0 | 0.0 | 45.6 | 36.7 |
| 508 | 60.0  | 160.0 | 4.0 | 0.0 | 46.4 | 37.4 |
| 509 | 80.0  | 160.0 | 4.0 | 0.0 | 47.3 | 38.3 |
| 510 | 100.0 | 160.0 | 4.0 | 0.0 | 48.3 | 39.3 |
| 511 | 120.0 | 160.0 | 4.0 | 0.0 | 49.7 | 39.7 |
| 512 | 140.0 | 160.0 | 4.0 | 0.0 | 50.7 | 40.8 |
| 513 | 160.0 | 160.0 | 4.0 | 0.0 | 51.4 | 42.3 |
| 514 | 180.0 | 160.0 | 4.0 | 0.0 | 52.6 | 43.9 |
| 523 | 360.0 | 160.0 | 4.0 | 0.0 | 51.3 | 45.6 |
| 524 | 380.0 | 160.0 | 4.0 | 0.0 | 50.6 | 45.8 |
| 525 | 400.0 | 160.0 | 4.0 | 0.0 | 49.0 | 43.9 |
| 528 | 460.0 | 160.0 | 4.0 | 0.0 | 39.0 | 31.9 |
| 529 | 480.0 | 160.0 | 4.0 | 0.0 | 42.5 | 37.5 |
| 530 | 500.0 | 160.0 | 4.0 | 0.0 | 42.4 | 37.5 |
| 531 | 520.0 | 160.0 | 4.0 | 0.0 | 41.8 | 36.8 |

|     |       |       |     |     |      |      |
|-----|-------|-------|-----|-----|------|------|
| 532 | 540.0 | 160.0 | 4.0 | 0.0 | 41.0 | 35.9 |
| 533 | 0.0   | 140.0 | 4.0 | 0.0 | 44.2 | 35.5 |
| 534 | 20.0  | 140.0 | 4.0 | 0.0 | 44.7 | 35.8 |
| 535 | 40.0  | 140.0 | 4.0 | 0.0 | 45.4 | 36.5 |
| 536 | 60.0  | 140.0 | 4.0 | 0.0 | 46.2 | 37.2 |
| 537 | 80.0  | 140.0 | 4.0 | 0.0 | 47.1 | 38.1 |
| 538 | 100.0 | 140.0 | 4.0 | 0.0 | 47.9 | 38.9 |
| 539 | 120.0 | 140.0 | 4.0 | 0.0 | 48.7 | 39.2 |
| 540 | 140.0 | 140.0 | 4.0 | 0.0 | 49.6 | 40.3 |
| 541 | 160.0 | 140.0 | 4.0 | 0.0 | 51.3 | 41.5 |
| 542 | 180.0 | 140.0 | 4.0 | 0.0 | 51.9 | 42.8 |
| 551 | 360.0 | 140.0 | 4.0 | 0.0 | 57.2 | 43.4 |
| 552 | 380.0 | 140.0 | 4.0 | 0.0 | 54.0 | 44.3 |
| 553 | 400.0 | 140.0 | 4.0 | 0.0 | 51.6 | 42.7 |
| 559 | 520.0 | 140.0 | 4.0 | 0.0 | 39.2 | 32.1 |
| 560 | 540.0 | 140.0 | 4.0 | 0.0 | 41.6 | 34.9 |
| 561 | 0.0   | 120.0 | 4.0 | 0.0 | 43.7 | 35.3 |
| 562 | 20.0  | 120.0 | 4.0 | 0.0 | 44.2 | 35.6 |
| 563 | 40.0  | 120.0 | 4.0 | 0.0 | 44.9 | 36.3 |
| 564 | 60.0  | 120.0 | 4.0 | 0.0 | 45.6 | 37.0 |
| 565 | 80.0  | 120.0 | 4.0 | 0.0 | 46.5 | 37.7 |
| 566 | 100.0 | 120.0 | 4.0 | 0.0 | 47.3 | 38.2 |
| 567 | 120.0 | 120.0 | 4.0 | 0.0 | 48.2 | 38.8 |
| 568 | 140.0 | 120.0 | 4.0 | 0.0 | 49.4 | 39.7 |
| 569 | 160.0 | 120.0 | 4.0 | 0.0 | 50.7 | 40.7 |
| 570 | 180.0 | 120.0 | 4.0 | 0.0 | 52.3 | 41.7 |
| 578 | 340.0 | 120.0 | 4.0 | 0.0 | 58.2 | 42.1 |
| 579 | 360.0 | 120.0 | 4.0 | 0.0 | 55.6 | 41.5 |
| 580 | 380.0 | 120.0 | 4.0 | 0.0 | 53.4 | 42.7 |
| 581 | 400.0 | 120.0 | 4.0 | 0.0 | 51.2 | 41.5 |
| 582 | 420.0 | 120.0 | 4.0 | 0.0 | 34.3 | 25.6 |
| 587 | 520.0 | 120.0 | 4.0 | 0.0 | 39.3 | 31.9 |
| 588 | 540.0 | 120.0 | 4.0 | 0.0 | 40.7 | 33.0 |
| 589 | 0.0   | 100.0 | 4.0 | 0.0 | 43.6 | 35.2 |
| 590 | 20.0  | 100.0 | 4.0 | 0.0 | 44.2 | 35.5 |
| 591 | 40.0  | 100.0 | 4.0 | 0.0 | 44.9 | 36.2 |
| 592 | 60.0  | 100.0 | 4.0 | 0.0 | 45.7 | 36.8 |
| 593 | 80.0  | 100.0 | 4.0 | 0.0 | 46.4 | 37.5 |
| 594 | 100.0 | 100.0 | 4.0 | 0.0 | 48.0 | 37.9 |
| 595 | 120.0 | 100.0 | 4.0 | 0.0 | 48.1 | 38.4 |
| 596 | 140.0 | 100.0 | 4.0 | 0.0 | 49.0 | 39.1 |
| 597 | 160.0 | 100.0 | 4.0 | 0.0 | 49.3 | 39.9 |
| 598 | 180.0 | 100.0 | 4.0 | 0.0 | 51.0 | 40.5 |
| 599 | 200.0 | 100.0 | 4.0 | 0.0 | 52.2 | 39.3 |
| 600 | 220.0 | 100.0 | 4.0 | 0.0 | 54.0 | 40.2 |
| 601 | 240.0 | 100.0 | 4.0 | 0.0 | 55.3 | 40.6 |
| 602 | 260.0 | 100.0 | 4.0 | 0.0 | 55.7 | 40.6 |
| 606 | 340.0 | 100.0 | 4.0 | 0.0 | 54.7 | 40.7 |
| 607 | 360.0 | 100.0 | 4.0 | 0.0 | 53.4 | 40.1 |
| 608 | 380.0 | 100.0 | 4.0 | 0.0 | 51.9 | 41.2 |
| 609 | 400.0 | 100.0 | 4.0 | 0.0 | 50.3 | 40.4 |
| 610 | 420.0 | 100.0 | 4.0 | 0.0 | 48.7 | 38.1 |
| 611 | 440.0 | 100.0 | 4.0 | 0.0 | 47.2 | 35.9 |
| 612 | 460.0 | 100.0 | 4.0 | 0.0 | 44.7 | 34.9 |
| 613 | 480.0 | 100.0 | 4.0 | 0.0 | 43.3 | 34.2 |
| 614 | 500.0 | 100.0 | 4.0 | 0.0 | 42.1 | 33.7 |
| 615 | 520.0 | 100.0 | 4.0 | 0.0 | 41.3 | 33.1 |
| 616 | 540.0 | 100.0 | 4.0 | 0.0 | 40.7 | 32.7 |
| 617 | 0.0   | 80.0  | 4.0 | 0.0 | 43.5 | 35.1 |
| 618 | 20.0  | 80.0  | 4.0 | 0.0 | 44.1 | 35.3 |
| 619 | 40.0  | 80.0  | 4.0 | 0.0 | 44.9 | 35.9 |
| 620 | 60.0  | 80.0  | 4.0 | 0.0 | 45.9 | 36.6 |
| 621 | 80.0  | 80.0  | 4.0 | 0.0 | 47.1 | 37.3 |
| 622 | 100.0 | 80.0  | 4.0 | 0.0 | 46.8 | 37.6 |
| 623 | 120.0 | 80.0  | 4.0 | 0.0 | 47.4 | 38.0 |
| 624 | 140.0 | 80.0  | 4.0 | 0.0 | 48.2 | 38.5 |
| 625 | 160.0 | 80.0  | 4.0 | 0.0 | 48.5 | 39.1 |
| 626 | 180.0 | 80.0  | 4.0 | 0.0 | 50.0 | 39.5 |
| 627 | 200.0 | 80.0  | 4.0 | 0.0 | 50.9 | 39.5 |
| 628 | 220.0 | 80.0  | 4.0 | 0.0 | 52.1 | 40.0 |
| 629 | 240.0 | 80.0  | 4.0 | 0.0 | 52.9 | 40.1 |
| 630 | 260.0 | 80.0  | 4.0 | 0.0 | 53.4 | 39.8 |
| 631 | 280.0 | 80.0  | 4.0 | 0.0 | 53.4 | 39.8 |
| 632 | 300.0 | 80.0  | 4.0 | 0.0 | 53.6 | 40.7 |

|     |       |      |     |     |      |      |
|-----|-------|------|-----|-----|------|------|
| 633 | 320.0 | 80.0 | 4.0 | 0.0 | 53.1 | 40.2 |
| 634 | 340.0 | 80.0 | 4.0 | 0.0 | 52.1 | 40.4 |
| 635 | 360.0 | 80.0 | 4.0 | 0.0 | 51.5 | 40.2 |
| 636 | 380.0 | 80.0 | 4.0 | 0.0 | 50.6 | 40.5 |
| 637 | 400.0 | 80.0 | 4.0 | 0.0 | 49.5 | 39.9 |
| 638 | 420.0 | 80.0 | 4.0 | 0.0 | 48.3 | 38.7 |
| 639 | 440.0 | 80.0 | 4.0 | 0.0 | 47.2 | 37.3 |
| 640 | 460.0 | 80.0 | 4.0 | 0.0 | 46.1 | 35.8 |
| 641 | 480.0 | 80.0 | 4.0 | 0.0 | 45.1 | 34.8 |
| 642 | 500.0 | 80.0 | 4.0 | 0.0 | 43.9 | 34.0 |
| 643 | 520.0 | 80.0 | 4.0 | 0.0 | 42.7 | 33.3 |
| 644 | 540.0 | 80.0 | 4.0 | 0.0 | 41.5 | 32.6 |
| 645 | 0.0   | 60.0 | 4.0 | 0.0 | 43.6 | 35.0 |
| 646 | 20.0  | 60.0 | 4.0 | 0.0 | 44.0 | 35.1 |
| 647 | 40.0  | 60.0 | 4.0 | 0.0 | 45.4 | 35.7 |
| 648 | 60.0  | 60.0 | 4.0 | 0.0 | 45.3 | 36.3 |
| 649 | 80.0  | 60.0 | 4.0 | 0.0 | 45.7 | 36.7 |
| 650 | 100.0 | 60.0 | 4.0 | 0.0 | 46.2 | 37.0 |
| 651 | 120.0 | 60.0 | 4.0 | 0.0 | 46.8 | 37.3 |
| 652 | 140.0 | 60.0 | 4.0 | 0.0 | 47.4 | 37.7 |
| 653 | 160.0 | 60.0 | 4.0 | 0.0 | 48.1 | 38.3 |
| 654 | 180.0 | 60.0 | 4.0 | 0.0 | 49.0 | 38.7 |
| 655 | 200.0 | 60.0 | 4.0 | 0.0 | 49.9 | 38.6 |
| 656 | 220.0 | 60.0 | 4.0 | 0.0 | 50.7 | 38.9 |
| 657 | 240.0 | 60.0 | 4.0 | 0.0 | 51.3 | 39.0 |
| 658 | 260.0 | 60.0 | 4.0 | 0.0 | 51.3 | 38.8 |
| 659 | 280.0 | 60.0 | 4.0 | 0.0 | 51.6 | 39.0 |
| 660 | 300.0 | 60.0 | 4.0 | 0.0 | 51.7 | 39.5 |
| 661 | 320.0 | 60.0 | 4.0 | 0.0 | 51.2 | 39.2 |
| 662 | 340.0 | 60.0 | 4.0 | 0.0 | 50.4 | 39.5 |
| 663 | 360.0 | 60.0 | 4.0 | 0.0 | 49.8 | 39.3 |
| 664 | 380.0 | 60.0 | 4.0 | 0.0 | 49.3 | 39.5 |
| 665 | 400.0 | 60.0 | 4.0 | 0.0 | 48.5 | 39.1 |
| 666 | 420.0 | 60.0 | 4.0 | 0.0 | 47.6 | 38.3 |
| 667 | 440.0 | 60.0 | 4.0 | 0.0 | 46.7 | 37.3 |
| 668 | 460.0 | 60.0 | 4.0 | 0.0 | 45.8 | 36.0 |
| 669 | 480.0 | 60.0 | 4.0 | 0.0 | 45.0 | 35.4 |
| 670 | 500.0 | 60.0 | 4.0 | 0.0 | 44.2 | 34.0 |
| 671 | 520.0 | 60.0 | 4.0 | 0.0 | 43.4 | 33.2 |
| 672 | 540.0 | 60.0 | 4.0 | 0.0 | 42.5 | 32.6 |
| 673 | 0.0   | 40.0 | 4.0 | 0.0 | 43.7 | 34.6 |
| 674 | 20.0  | 40.0 | 4.0 | 0.0 | 44.4 | 34.8 |
| 675 | 40.0  | 40.0 | 4.0 | 0.0 | 44.0 | 35.4 |
| 676 | 60.0  | 40.0 | 4.0 | 0.0 | 44.6 | 35.9 |
| 677 | 80.0  | 40.0 | 4.0 | 0.0 | 45.2 | 36.3 |
| 678 | 100.0 | 40.0 | 4.0 | 0.0 | 45.7 | 36.6 |
| 679 | 120.0 | 40.0 | 4.0 | 0.0 | 46.3 | 36.8 |
| 680 | 140.0 | 40.0 | 4.0 | 0.0 | 46.3 | 37.2 |
| 681 | 160.0 | 40.0 | 4.0 | 0.0 | 47.4 | 37.7 |
| 682 | 180.0 | 40.0 | 4.0 | 0.0 | 48.1 | 38.1 |
| 683 | 200.0 | 40.0 | 4.0 | 0.0 | 48.8 | 38.1 |
| 684 | 220.0 | 40.0 | 4.0 | 0.0 | 49.4 | 38.2 |
| 685 | 240.0 | 40.0 | 4.0 | 0.0 | 49.9 | 38.0 |
| 686 | 260.0 | 40.0 | 4.0 | 0.0 | 50.1 | 37.8 |
| 687 | 280.0 | 40.0 | 4.0 | 0.0 | 50.2 | 37.9 |
| 688 | 300.0 | 40.0 | 4.0 | 0.0 | 50.3 | 38.6 |
| 689 | 320.0 | 40.0 | 4.0 | 0.0 | 49.9 | 38.4 |
| 690 | 340.0 | 40.0 | 4.0 | 0.0 | 49.0 | 38.8 |
| 691 | 360.0 | 40.0 | 4.0 | 0.0 | 48.6 | 38.5 |
| 692 | 380.0 | 40.0 | 4.0 | 0.0 | 48.2 | 38.8 |
| 693 | 400.0 | 40.0 | 4.0 | 0.0 | 47.5 | 38.4 |
| 694 | 420.0 | 40.0 | 4.0 | 0.0 | 46.8 | 37.7 |
| 695 | 440.0 | 40.0 | 4.0 | 0.0 | 46.1 | 37.0 |
| 696 | 460.0 | 40.0 | 4.0 | 0.0 | 45.4 | 36.3 |
| 697 | 480.0 | 40.0 | 4.0 | 0.0 | 44.7 | 35.5 |
| 698 | 500.0 | 40.0 | 4.0 | 0.0 | 44.0 | 34.4 |
| 699 | 520.0 | 40.0 | 4.0 | 0.0 | 43.3 | 33.3 |
| 700 | 540.0 | 40.0 | 4.0 | 0.0 | 42.7 | 32.6 |
| 701 | 0.0   | 20.0 | 4.0 | 0.0 | 43.3 | 34.4 |
| 702 | 20.0  | 20.0 | 4.0 | 0.0 | 43.1 | 34.6 |
| 703 | 40.0  | 20.0 | 4.0 | 0.0 | 43.6 | 35.0 |
| 704 | 60.0  | 20.0 | 4.0 | 0.0 | 44.1 | 35.5 |
| 705 | 80.0  | 20.0 | 4.0 | 0.0 | 44.7 | 36.0 |
| 706 | 100.0 | 20.0 | 4.0 | 0.0 | 45.2 | 36.1 |

|     |       |       |     |     |      |      |
|-----|-------|-------|-----|-----|------|------|
| 707 | 120.0 | 20.0  | 4.0 | 0.0 | 45.6 | 36.7 |
| 708 | 140.0 | 20.0  | 4.0 | 0.0 | 45.5 | 36.9 |
| 709 | 160.0 | 20.0  | 4.0 | 0.0 | 46.8 | 37.3 |
| 710 | 180.0 | 20.0  | 4.0 | 0.0 | 47.3 | 37.7 |
| 711 | 200.0 | 20.0  | 4.0 | 0.0 | 47.9 | 37.9 |
| 712 | 220.0 | 20.0  | 4.0 | 0.0 | 48.4 | 38.0 |
| 713 | 240.0 | 20.0  | 4.0 | 0.0 | 48.7 | 38.0 |
| 714 | 260.0 | 20.0  | 4.0 | 0.0 | 48.9 | 38.0 |
| 715 | 280.0 | 20.0  | 4.0 | 0.0 | 49.0 | 38.1 |
| 716 | 300.0 | 20.0  | 4.0 | 0.0 | 49.2 | 38.4 |
| 717 | 320.0 | 20.0  | 4.0 | 0.0 | 48.7 | 38.4 |
| 718 | 340.0 | 20.0  | 4.0 | 0.0 | 48.2 | 38.5 |
| 719 | 360.0 | 20.0  | 4.0 | 0.0 | 47.6 | 38.3 |
| 720 | 380.0 | 20.0  | 4.0 | 0.0 | 47.2 | 38.2 |
| 721 | 400.0 | 20.0  | 4.0 | 0.0 | 46.7 | 37.9 |
| 722 | 420.0 | 20.0  | 4.0 | 0.0 | 46.1 | 37.5 |
| 723 | 440.0 | 20.0  | 4.0 | 0.0 | 45.5 | 36.8 |
| 724 | 460.0 | 20.0  | 4.0 | 0.0 | 44.9 | 36.3 |
| 725 | 480.0 | 20.0  | 4.0 | 0.0 | 44.3 | 35.6 |
| 726 | 500.0 | 20.0  | 4.0 | 0.0 | 43.6 | 34.6 |
| 727 | 520.0 | 20.0  | 4.0 | 0.0 | 42.9 | 33.7 |
| 728 | 540.0 | 20.0  | 4.0 | 0.0 | 42.3 | 32.9 |
| 729 | 0.0   | 0.0   | 4.0 | 0.0 | 42.7 | 34.3 |
| 730 | 20.0  | 0.0   | 4.0 | 0.0 | 43.1 | 34.6 |
| 731 | 40.0  | 0.0   | 4.0 | 0.0 | 43.6 | 35.0 |
| 732 | 60.0  | 0.0   | 4.0 | 0.0 | 44.0 | 35.4 |
| 733 | 80.0  | 0.0   | 4.0 | 0.0 | 44.4 | 35.6 |
| 734 | 100.0 | 0.0   | 4.0 | 0.0 | 44.8 | 35.9 |
| 735 | 120.0 | 0.0   | 4.0 | 0.0 | 45.0 | 36.1 |
| 736 | 140.0 | 0.0   | 4.0 | 0.0 | 45.3 | 36.4 |
| 737 | 160.0 | 0.0   | 4.0 | 0.0 | 46.1 | 36.7 |
| 738 | 180.0 | 0.0   | 4.0 | 0.0 | 46.6 | 37.1 |
| 739 | 200.0 | 0.0   | 4.0 | 0.0 | 47.2 | 37.3 |
| 740 | 220.0 | 0.0   | 4.0 | 0.0 | 47.6 | 37.3 |
| 741 | 240.0 | 0.0   | 4.0 | 0.0 | 47.7 | 37.1 |
| 742 | 260.0 | 0.0   | 4.0 | 0.0 | 47.8 | 37.2 |
| 743 | 280.0 | 0.0   | 4.0 | 0.0 | 47.9 | 37.6 |
| 744 | 300.0 | 0.0   | 4.0 | 0.0 | 48.0 | 37.6 |
| 745 | 320.0 | 0.0   | 4.0 | 0.0 | 47.6 | 37.6 |
| 746 | 340.0 | 0.0   | 4.0 | 0.0 | 47.1 | 37.8 |
| 747 | 360.0 | 0.0   | 4.0 | 0.0 | 46.8 | 37.6 |
| 748 | 380.0 | 0.0   | 4.0 | 0.0 | 46.4 | 37.6 |
| 749 | 400.0 | 0.0   | 4.0 | 0.0 | 45.9 | 37.4 |
| 750 | 420.0 | 0.0   | 4.0 | 0.0 | 45.5 | 37.0 |
| 751 | 440.0 | 0.0   | 4.0 | 0.0 | 44.9 | 36.5 |
| 752 | 460.0 | 0.0   | 4.0 | 0.0 | 44.4 | 36.0 |
| 753 | 480.0 | 0.0   | 4.0 | 0.0 | 43.9 | 35.5 |
| 754 | 500.0 | 0.0   | 4.0 | 0.0 | 43.3 | 34.7 |
| 755 | 520.0 | 0.0   | 4.0 | 0.0 | 42.7 | 33.9 |
| 756 | 540.0 | 0.0   | 4.0 | 0.0 | 41.8 | 32.9 |
| 1   | 369.7 | 64.5  | 4.0 | 0.0 | 49.9 | 39.3 |
| 2   | 527.8 | 227.6 | 4.0 | 0.0 | 38.6 | 34.2 |
| 3   | 394.6 | 369.2 | 4.0 | 0.0 | 42.9 | 38.8 |
| 4   | 336.2 | 381.1 | 4.0 | 0.0 | 46.2 | 40.2 |
| 5   | 278.0 | 391.9 | 4.0 | 0.0 | 47.4 | 40.5 |

LAeq , dzień: wartość największa poza terenem zakładu występuje w punkcie (340,120,4.0)  
i wynosi 58.2 dB(A)  
LAeq , noc: wartość największa poza terenem zakładu występuje w punkcie (380,200,4.0)  
i wynosi 49.5 dB(A)

Koniec obliczeń