

**Emisja zanieczyszczeń do powietrza.**

**Załącznik nr 13**

## **Informacja nt aktualnego stanu jakości powietrza**



Główny Inspektorat  
Ochrony Środowiska



Inspekcji  
Ochrony Środowiska

Departament Monitoringu Środowiska  
Regionalny Wydział Monitoringu Środowiska w Bydgoszczy

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Bydgoszcz, dnia: 05.07.2023 r.

DMS-BY.731.1.251.2023.JK

Na podstawie art. 9 ust. 1 pkt 1 ustawy z dnia 3 października 2008 r. o udostępnianiu informacji o środowisku i jego ochronie, udziale społeczeństwa w ochronie środowiska oraz o ocenach oddziaływania na środowisko (Dz.U. 2022 r., poz. 1029 z późn. zm.), w związku z pismem z dnia 27.06.2023 r. informuję, że w roku kalendarzowym 2022 w rejonie działek 42/1, 42/2 i 42/4, obręb Pręczki, gm. Rogowo, pow. rypiński, wystąpiły następujące **wartości stężeń średniorocznych**:

1. **Dwutlenek azotu** - nr CAS 10102-44-0:

$S_a = 7 \mu\text{g}/\text{m}^3$

2. **Dwutlenek siarki** - nr CAS 7446-09-5\*:

$S_a = 2 \mu\text{g}/\text{m}^3$

3. **Pył zawieszony PM10**:

$S_a = 18 \mu\text{g}/\text{m}^3$

4. **Pył zawieszony PM2,5**:

$S_a = 14 \mu\text{g}/\text{m}^3$

5. **Benzen** - nr CAS 71-43-2:

$S_a = 0,6 \mu\text{g}/\text{m}^3$

6. **Ołów** - nr CAS 7439-92-1\*\*:

$S_a = 0,005 \mu\text{g}/\text{m}^3$

\*Poziom dopuszczalny jako wartość średnioroczna dla  $\text{SO}_2$  jest określony w polskim prawie jedynie pod kątem ochrony roślin, co oznacza, że norma ta nie dotyczy stref będących aglomeracjami lub miastami, o których mowa w ustawie Prawo ochrony środowiska.

\*\* Stężenie oznaczone jako suma metalu i jego związków w pyłe zawieszonym PM10.

Podpis jest prawidłowy

Dokument podpisany przez Honorata Kujawę - Łobaczewską  
Data: 2023.07.05 10:17:25 CEST

**Honorata Kujawa - Łobaczewska**  
Naczelnik Regionalnego Wydziału  
Monitoringu Środowiska w Bydgoszczy  
Departament Monitoringu Środowiska  
/– podpisany cyfrowo/

Otrzymują:

Adresat (e-mail: [ekoraporty@ekoraporty.com](mailto:ekoraporty@ekoraporty.com))

Dane osobowe będą przetwarzane wyłącznie w celu udzielenia informacji o środowisku zgodnie z powołaną wyżej Ustawą. Informuję, że Administratorem Danych Osobowych jest Główny Inspektor Ochrony Środowiska. Dane będą przechowywane przez okres 5 lat. Każda osoba, za pośrednictwem Inspektora Ochrony Danych w GIOS ([iod@gios.gov.pl](mailto:iod@gios.gov.pl)) posiada prawo do dostępu do treści swoich danych, ich sprostowania, a w uzasadnionych przypadkach sprzeciwu, ustąpienia lub ograniczenia przetwarzania. Każdemu przysługuje ponadto prawo do wniesienia skargi do Urzędu Ochrony Danych na niewłaściwe przetwarzanie jego danych. Podanie danych jest dobrowolne, jednak konieczne do uzyskania informacji o środowisku.

**Dane wejściowe. Wyniki obliczeń komputerowych.**





[illegible]

|     |     |     |   |       |       |       |       |
|-----|-----|-----|---|-------|-------|-------|-------|
| 121 | 580 | 200 | 0 | 5,295 | 0.00V | 17.24 | 14.42 |
| 122 | 400 | 200 | 0 | 5,248 | 0.00V | 17.09 | 13.48 |
| 123 | 680 | 200 | 0 | 5,209 | 0.00V | 17.40 | 15.00 |
| 124 | 680 | 200 | 0 | 5,178 | 0.00V | 16.65 | 14.15 |
| 125 | 240 | 200 | 0 | 5,150 | 0.00V | 15.84 | 8.54  |
| 126 | 760 | 200 | 0 | 5,136 | 0.00V | 15.19 | 8.46  |
| 127 | 400 | 200 | 0 | 5,121 | 0.00V | 14.45 | 7.17  |
| 128 | 40  | 200 | 0 | 5,107 | 0.00V | 14.72 | 10.00 |
| 129 | 40  | 200 | 0 | 5,234 | 0.00V | 15.43 | 13.96 |
| 130 | 80  | 200 | 0 | 5,264 | 0.00V | 16.34 | 15.90 |
| 131 | 120 | 200 | 0 | 5,296 | 0.00V | 16.89 | 13.72 |
| 132 | 20  | 200 | 0 | 5,309 | 0.00V | 17.19 | 14.19 |
| 133 | 200 | 200 | 0 | 5,366 | 0.00V | 17.93 | 15.50 |
| 134 | 240 | 200 | 0 | 5,394 | 0.00V | 18.79 | 15.94 |
| 135 | 280 | 200 | 0 | 5,423 | 0.00V | 19.13 | 15.98 |
| 136 | 320 | 200 | 0 | 5,452 | 0.00V | 20.56 | 15.98 |
| 137 | 360 | 200 | 0 | 5,482 | 0.00V | 21.24 | 16.68 |
| 138 | 400 | 200 | 0 | 5,496 | 0.00V | 20.99 | 16.81 |
| 139 | 440 | 200 | 0 | 5,496 | 0.00V | 20.77 | 16.68 |
| 140 | 480 | 200 | 0 | 5,467 | 0.00V | 20.42 | 16.68 |
| 141 | 520 | 200 | 0 | 5,410 | 0.00V | 20.03 | 15.28 |
| 142 | 560 | 200 | 0 | 5,380 | 0.00V | 19.79 | 15.19 |
| 143 | 600 | 200 | 0 | 5,360 | 0.00V | 19.42 | 15.19 |
| 144 | 640 | 200 | 0 | 5,340 | 0.00V | 19.17 | 11.28 |
| 145 | 680 | 200 | 0 | 5,198 | 0.00V | 16.95 | 9.94  |
| 146 | 720 | 200 | 0 | 5,171 | 0.00V | 16.85 | 9.44  |
| 147 | 760 | 200 | 0 | 5,149 | 0.00V | 15.67 | 8.44  |
| 148 | 800 | 200 | 0 | 5,120 | 0.00V | 14.69 | 7.84  |
| 149 | 0   | 280 | 0 | 5,222 | 0.00V | 15.03 | 11.12 |
| 150 | 40  | 200 | 0 | 5,253 | 0.00V | 16.22 | 10.33 |
| 151 | 80  | 200 | 0 | 5,284 | 0.00V | 16.77 | 10.33 |
| 152 | 120 | 280 | 0 | 5,336 | 0.00V | 17.00 | 13.76 |
| 153 | 160 | 280 | 0 | 5,380 | 0.00V | 17.47 | 15.30 |
| 154 | 200 | 280 | 0 | 5,452 | 0.00V | 18.49 | 14.40 |
| 155 | 240 | 280 | 0 | 5,479 | 0.00V | 19.23 | 14.40 |
| 156 | 280 | 280 | 0 | 5,570 | 0.00V | 21.34 | 16.75 |
| 157 | 320 | 280 | 0 | 5,623 | 0.00V | 21.57 | 19.23 |
| 158 | 360 | 280 | 0 | 5,671 | 0.00V | 21.57 | 19.63 |
| 159 | 400 | 280 | 0 | 5,699 | 0.00V | 22.00 | 19.63 |
| 160 | 440 | 280 | 0 | 5,693 | 0.00V | 21.43 | 16.76 |
| 161 | 480 | 280 | 0 | 5,621 | 0.00V | 20.93 | 18.93 |
| 162 | 520 | 280 | 0 | 5,607 | 0.00V | 20.47 | 16.80 |
| 163 | 560 | 280 | 0 | 5,587 | 0.00V | 20.17 | 16.80 |
| 164 | 600 | 280 | 0 | 5,321 | 0.00V | 19.78 | 13.27 |
| 165 | 640 | 280 | 0 | 5,264 | 0.00V | 19.21 | 10.12 |
| 166 | 680 | 280 | 0 | 5,221 | 0.00V | 17.24 | 10.06 |
| 167 | 720 | 280 | 0 | 5,184 | 0.00V | 16.87 | 10.06 |
| 168 | 760 | 280 | 0 | 5,140 | 0.00V | 15.94 | 8.83  |
| 169 | 800 | 280 | 0 | 5,136 | 0.00V | 15.13 | 8.06  |
| 170 | 840 | 280 | 0 | 5,109 | 0.00V | 15.29 | 11.12 |
| 171 | 880 | 280 | 0 | 5,071 | 0.00V | 16.13 | 13.05 |
| 172 | 920 | 280 | 0 | 5,315 | 0.00V | 16.91 | 14.16 |
| 173 | 120 | 320 | 0 | 5,372 | 0.00V | 17.43 | 15.04 |
| 174 | 160 | 320 | 0 | 5,401 | 0.00V | 17.67 | 15.04 |
| 175 | 200 | 320 | 0 | 5,534 | 0.00V | 19.61 | 17.03 |
| 176 | 240 | 320 | 0 | 5,458 | 0.00V | 21.09 | 16.46 |
| 177 | 280 | 320 | 0 | 5,791 | 0.00V | 21.57 | 19.59 |
| 178 | 320 | 320 | 0 | 5,809 | 0.00V | 22.14 | 20.59 |
| 179 | 360 | 320 | 0 | 5,721 | 0.00V | 21.37 | 18.93 |
| 180 | 400 | 320 | 0 | 5,776 | 0.00V | 22.00 | 19.63 |
| 181 | 440 | 320 | 0 | 5,794 | 0.00V | 22.32 | 22.07 |
| 182 | 480 | 320 | 0 | 5,740 | 0.00V | 21.83 | 21.90 |
| 183 | 520 | 320 | 0 | 5,685 | 0.00V | 21.40 | 20.46 |
| 184 | 560 | 320 | 0 | 5,636 | 0.00V | 20.87 | 18.57 |
| 185 | 600 | 320 | 0 | 5,581 | 0.00V | 20.59 | 15.77 |
| 186 | 640 | 320 | 0 | 5,375 | 0.00V | 19.92 | 15.04 |
| 187 | 680 | 320 | 0 | 5,303 | 0.00V | 19.71 | 12.17 |
| 188 | 720 | 320 | 0 | 5,245 | 0.00V | 17.44 | 10.89 |
| 189 | 760 | 320 | 0 | 5,202 | 0.00V | 16.74 | 9.68  |
| 190 | 800 | 320 | 0 | 5,171 | 0.00V | 16.32 | 9.44  |
| 191 | 840 | 320 | 0 | 5,144 | 0.00V | 15.40 | 7.87  |
| 192 | 880 | 320 | 0 | 5,247 | 0.00V | 15.52 | 12.37 |
| 193 | 920 | 320 | 0 | 5,287 | 0.00V | 16.92 | 13.64 |
| 194 | 0   | 360 | 0 | 5,309 | 0.00V | 16.83 | 13.05 |
| 195 | 40  | 360 | 0 | 5,247 | 0.00V | 15.52 | 12.37 |
| 196 | 80  | 360 | 0 | 5,287 | 0.00V | 16.92 | 13.64 |
| 197 | 120 | 360 | 0 | 5,309 | 0.00V | 16.83 | 13.05 |
| 198 | 160 | 360 | 0 | 5,491 | 0.00V | 18.49 | 16.43 |
| 199 | 200 | 360 | 0 | 5,416 | 0.00V | 20.23 | 16.92 |
| 200 | 240 | 360 | 0 | 5,507 | 0.00V | 21.47 | 18.93 |
| 201 | 280 | 360 | 0 | 5,614 | 0.00V | 22.64 | 21.22 |
| 202 | 320 | 360 | 0 | 5,723 | 0.00V | 24.83 | 22.67 |
| 203 | 360 | 360 | 0 | 5,794 | 0.00V | 25.15 | 25.16 |
| 204 | 400 | 360 | 0 | 5,809 | 0.00V | 25.48 | 25.48 |
| 205 | 440 | 360 | 0 | 5,638 | 0.00V | 22.05 | 19.97 |
| 206 | 480 | 360 | 0 | 5,603 | 0.00V | 21.47 | 18.93 |
| 207 | 520 | 360 | 0 | 5,321 | 0.00V | 20.47 | 16.76 |
| 208 | 560 | 360 | 0 | 5,245 | 0.00V | 19.92 | 15.59 |
| 209 | 600 | 360 | 0 | 5,171 | 0.00V | 19.71 | 12.17 |
| 210 | 640 | 360 | 0 | 5,436 | 0.00V | 20.46 | 14.71 |
| 211 | 680 | 360 | 0 | 5,375 | 0.00V | 19.44 | 12.40 |
| 212 | 720 | 360 | 0 | 5,287 | 0.00V | 18.74 | 11.28 |
| 213 | 760 | 360 | 0 | 5,245 | 0.00V | 17.44 | 10.89 |
| 214 | 800 | 360 | 0 | 5,182 | 0.00V | 16.57 | 9.88  |
| 215 | 840 | 360 | 0 | 5,154 | 0.00V | 15.57 | 7.88  |
| 216 | 880 | 360 | 0 | 5,125 | 0.00V | 15.43 | 7.64  |
| 217 | 920 | 360 | 0 | 5,295 | 0.00V | 16.47 | 13.77 |
| 218 | 0   | 400 | 0 | 5,349 | 0.00V | 17.08 | 14.14 |
| 219 | 40  | 400 | 0 | 5,421 | 0.00V | 17.44 | 15.04 |
| 220 | 80  | 400 | 0 | 5,451 | 0.00V | 18.62 | 16.43 |
| 221 | 120 | 400 | 0 | 5,466 | 0.00V | 20.29 | 16.76 |
| 222 | 160 | 400 | 0 | 5,490 | 0.00V | 21.77 | 18.97 |
| 223 | 200 | 400 | 0 | 5,649 | 0.00V | 23.76 | 22.10 |
| 224 | 240 | 400 | 0 | 5,753 | 0.00V | 24.65 | 23.89 |
| 225 | 280 | 400 | 0 | 5,701 | 0.00V | 21.75 | 16.99 |
| 226 | 320 | 400 | 0 | 5,678 | 0.00V | 21.55 | 16.76 |
| 227 | 360 | 400 | 0 | 5,179 | 0.00V | 14.70 | 7.92  |
| 228 | 400 | 400 | 0 | 5,753 | 0.00V | 24.65 | 23.89 |
| 229 | 440 | 400 | 0 | 5,678 | 0.00V | 21.55 | 16.76 |
| 230 | 480 | 400 | 0 | 5,649 | 0.00V | 21.77 | 17.78 |
| 231 | 520 | 400 | 0 | 5,495 | 0.00V | 20.47 | 16.80 |
| 232 | 560 | 400 | 0 | 5,375 | 0.00V | 19.77 | 12.82 |
| 233 | 600 | 400 | 0 | 5,291 | 0.00V | 17.70 | 11.19 |
| 234 | 640 | 400 | 0 | 5,234 | 0.00V | 17.22 | 10.04 |
| 235 | 680 | 400 | 0 | 5,163 | 0.00V | 16.61 | 9.44  |
| 236 | 720 | 400 | 0 | 5,163 | 0.00V | 15.71 | 7.92  |
| 237 | 760 | 400 | 0 | 5,254 | 0.00V | 15.93 | 12.76 |
| 238 | 800 | 400 | 0 | 5,295 | 0.00V | 16.21 | 13.84 |
| 239 | 840 | 400 | 0 | 5,349 | 0.00V | 17.09 | 14.14 |
| 240 | 880 | 400 | 0 | 5,420 | 0.00V | 17.57 | 15.14 |
| 241 | 920 | 400 | 0 | 5,514 | 0.00V | 18.84 | 16.93 |
| 242 | 0   | 440 | 0 | 5,459 | 0.00V | 20.29 | 16.77 |
| 243 | 40  | 440 | 0 | 5,514 | 0.00V | 20.93 | 16.80 |
| 244 | 80  | 440 | 0 | 5,235 | 0.00V | 19.22 | 13.27 |
| 245 | 120 | 440 | 0 | 5,357 | 0.00V | 20.47 | 16.80 |
| 246 | 160 | 440 | 0 | 5,420 | 0.00V | 21.57 | 18.93 |
| 247 | 200 | 440 | 0 | 5,459 | 0.00V | 22.64 | 21.22 |
| 248 | 240 | 440 | 0 | 5,716 | 0.00V | 24.67 | 23.78 |
| 249 | 280 | 440 | 0 | 5,731 | 0.00V | 24.67 | 23.78 |
| 250 | 320 | 440 | 0 | 5,701 | 0.00V | 24.67 | 23.78 |
| 251 | 360 | 440 | 0 | 5,678 | 0.00V | 24.67 | 23.78 |
| 252 | 400 | 440 | 0 | 5,106 | 0.00V | 14.41 | 7.34  |
| 253 | 440 | 440 | 0 | 5,154 | 0.00V | 15.04 | 8.06  |
| 254 | 480 | 440 | 0 | 5,245 | 0.00V | 16.74 | 10.06 |
| 255 | 520 | 440 | 0 | 5,291 | 0.00V | 17.22 | 10.04 |
| 256 | 560 | 440 | 0 | 5,234 | 0.00V | 17.22 | 10.04 |
| 257 | 600 | 440 | 0 | 5,163 | 0.00V | 16.61 | 9.44  |
| 258 | 640 | 440 | 0 | 5,163 | 0.00V | 15.71 | 7.92  |
| 259 | 680 | 440 | 0 | 5,254 | 0.00V | 15.93 | 12.76 |
| 260 | 720 | 440 | 0 | 5,295 | 0.00V | 16.21 | 13.84 |
| 261 | 760 | 440 | 0 | 5,349 | 0.00V | 17.09 | 14.14 |
| 262 | 800 | 440 | 0 | 5,420 | 0.00V | 17.57 | 15.14 |
| 263 | 840 | 440 | 0 | 5,514 | 0.00V | 18.84 | 16.93 |
| 264 | 880 | 440 | 0 | 5,459 | 0.00V | 20.29 | 16.77 |
| 265 | 920 | 440 | 0 | 5,514 | 0.00V | 20.93 | 16.80 |
| 266 | 0   | 480 | 0 | 5,235 | 0.00V | 19.22 | 13.27 |
| 267 | 40  | 480 | 0 | 5,357 | 0.00V | 20.47 | 16.80 |
| 268 | 80  | 480 | 0 | 5,420 | 0.00V | 21.57 | 18.93 |
| 269 | 120 | 480 | 0 | 5,459 | 0.00V | 22.64 | 21.22 |
| 270 | 160 | 480 | 0 | 5,716 | 0.00V | 24.67 | 23.78 |
| 271 | 200 | 480 | 0 | 5,731 | 0.00V | 24.67 | 23.78 |
| 272 | 240 | 480 | 0 | 5,701 | 0.00V | 24.67 | 23.78 |
| 273 | 280 | 480 | 0 | 5,678 | 0.00V | 24.67 | 23.78 |
| 274 | 320 | 480 | 0 | 5,106 | 0.00V | 14.41 | 7.34  |
| 275 | 360 | 480 | 0 | 5,154 | 0.00V | 15.04 | 8.06  |
| 276 | 400 | 480 | 0 | 5,245 | 0.00V | 16.74 | 10.06 |
| 277 | 440 | 480 | 0 | 5,291 | 0.00V | 17.22 | 10.04 |
| 278 | 480 | 480 | 0 | 5,234 | 0.00V | 17.22 | 10.04 |
| 279 | 520 | 480 | 0 | 5,163 | 0.00V | 16.61 | 9.44  |
| 280 | 560 | 480 | 0 | 5,163 | 0.00V | 15.71 | 7.92  |
| 281 | 600 | 480 | 0 | 5,254 | 0.00V | 15.93 | 12.76 |
| 282 | 640 | 480 | 0 | 5,295 | 0.00V | 16.21 | 13.84 |
| 283 | 680 | 480 | 0 | 5,349 | 0.00V | 17.09 | 14.14 |
| 284 | 720 | 480 | 0 | 5,420 | 0.00V | 17.57 | 15.14 |
| 285 | 760 | 480 | 0 | 5,514 | 0.00V | 18.84 | 16.93 |
| 286 | 800 | 480 | 0 | 5,459 | 0.00V | 20.29 | 16.77 |
| 287 | 840 | 480 | 0 | 5,514 | 0.00V | 20.93 | 16.80 |
| 288 | 880 | 480 | 0 | 5,235 | 0.00V | 19.22 | 13.27 |





|     |     |     |   |       |       |       |       |     |      |     |   |       |       |       |       |
|-----|-----|-----|---|-------|-------|-------|-------|-----|------|-----|---|-------|-------|-------|-------|
| 131 | 120 | 240 | 0 | .8195 | .000v | .879  | .715  | 244 | 401  | 520 | 0 | .5745 | .000v | 1.252 | 1.222 |
| 131 | 160 | 240 | 0 | .8174 | .000v | .895  | .741  | 244 | 440  | 520 | 0 | .5773 | .000v | 1.257 | 1.275 |
| 131 | 200 | 240 | 0 | .8191 | .000v | .914  | .807  | 244 | 480  | 520 | 0 | .5795 | .000v | 1.163 | 1.141 |
| 133 | 240 | 240 | 0 | .8205 | .000v | .978  | .829  | 247 | 520  | 520 | 0 | .5923 | .000v | 1.129 | 1.115 |
| 134 | 280 | 240 | 0 | .8220 | .000v | 1.039 | .886  | 249 | 560  | 520 | 0 | .5937 | .000v | 1.119 | 1.119 |
| 135 | 320 | 240 | 0 | .8237 | .000v | 1.096 | .946  | 249 | 600  | 520 | 0 | .5946 | .000v | 1.014 | 1.014 |
| 136 | 360 | 240 | 0 | .8251 | .000v | 1.157 | .996  | 250 | 640  | 520 | 0 | .5925 | .000v | .924  | .732  |
| 137 | 400 | 240 | 0 | .8258 | .000v | 1.093 | .875  | 251 | 680  | 520 | 0 | .5932 | .000v | .954  | .705  |
| 139 | 440 | 240 | 0 | .8258 | .000v | 1.062 | .848  | 252 | 720  | 520 | 0 | .5947 | .000v | .882  | .682  |
| 141 | 480 | 240 | 0 | .8243 | .000v | 1.021 | .821  | 253 | 760  | 520 | 0 | .5920 | .000v | .846  | .640  |
| 142 | 520 | 240 | 0 | .8213 | .000v | 1.043 | .795  | 254 | 800  | 520 | 0 | .5901 | .000v | .862  | .692  |
| 141 | 560 | 240 | 0 | .8178 | .000v | .978  | .791  | 255 | 8    | 540 | 0 | .5909 | .000v | .799  | .630  |
| 142 | 600 | 240 | 0 | .8146 | .000v | .907  | .738  | 255 | 40   | 540 | 0 | .5923 | .000v | .815  | .672  |
| 143 | 640 | 240 | 0 | .8121 | .000v | .902  | .738  | 257 | 80   | 540 | 0 | .5940 | .000v | .856  | .745  |
| 144 | 680 | 240 | 0 | .8103 | .000v | .862  | .718  | 259 | 120  | 540 | 0 | .5962 | .000v | .840  | .696  |
| 145 | 720 | 240 | 0 | .8089 | .000v | .857  | .690  | 259 | 160  | 540 | 0 | .5989 | .000v | .965  | .766  |
| 146 | 760 | 240 | 0 | .8077 | .000v | .811  | .642  | 259 | 200  | 540 | 0 | .5924 | .000v | .942  | .707  |
| 147 | 800 | 240 | 0 | .8068 | .000v | .762  | .607  | 259 | 240  | 540 | 0 | .5966 | .000v | 1.015 | .843  |
| 145 | 0   | 240 | 0 | .8116 | .000v | .762  | .679  | 262 | 280  | 540 | 0 | .5915 | .000v | 1.074 | .920  |
| 149 | 40  | 240 | 0 | .8132 | .000v | .824  | .642  | 263 | 320  | 540 | 0 | .5977 | .000v | 1.049 | .845  |
| 150 | 80  | 240 | 0 | .8151 | .000v | .872  | .711  | 263 | 360  | 540 | 0 | .5945 | .000v | 1.013 | .899  |
| 151 | 120 | 240 | 0 | .8175 | .000v | .868  | .717  | 265 | 400  | 540 | 0 | .5909 | .000v | 1.094 | 1.154 |
| 152 | 160 | 240 | 0 | .8203 | .000v | .920  | .797  | 266 | 440  | 540 | 0 | .5927 | .000v | 1.104 | 1.137 |
| 153 | 200 | 240 | 0 | .8236 | .000v | .869  | .834  | 267 | 480  | 540 | 0 | .5991 | .000v | 1.163 | .982  |
| 154 | 240 | 240 | 0 | .8268 | .000v | 1.052 | .893  | 268 | 520  | 540 | 0 | .5916 | .000v | 1.095 | .942  |
| 155 | 280 | 240 | 0 | .8297 | .000v | 1.112 | .972  | 269 | 560  | 540 | 0 | .5930 | .000v | 1.041 | .943  |
| 156 | 320 | 240 | 0 | .8324 | .000v | 1.123 | .949  | 270 | 600  | 540 | 0 | .5968 | .000v | .942  | .754  |
| 157 | 360 | 240 | 0 | .8349 | .000v | 1.123 | 1.022 | 271 | 640  | 540 | 0 | .5915 | .000v | .924  | .703  |
| 158 | 400 | 240 | 0 | .8364 | .000v | 1.126 | 1.090 | 272 | 680  | 540 | 0 | .5939 | .000v | .840  | .643  |
| 159 | 440 | 240 | 0 | .8361 | .000v | 1.114 | 1.029 | 273 | 720  | 540 | 0 | .5945 | .000v | .865  | .612  |
| 160 | 480 | 240 | 0 | .8324 | .000v | 1.085 | .966  | 274 | 760  | 540 | 0 | .5921 | .000v | .821  | .636  |
| 161 | 520 | 240 | 0 | .8264 | .000v | 1.067 | .875  | 275 | 800  | 540 | 0 | .5903 | .000v | .793  | .611  |
| 162 | 560 | 240 | 0 | .8241 | .000v | 1.050 | .761  | 276 | 840  | 540 | 0 | .5939 | .000v | .753  | .561  |
| 163 | 600 | 240 | 0 | .8147 | .000v | .974  | .696  | 277 | 880  | 540 | 0 | .5912 | .000v | .863  | .692  |
| 164 | 640 | 240 | 0 | .8128 | .000v | .898  | .621  | 279 | 920  | 540 | 0 | .5927 | .000v | .862  | .689  |
| 165 | 680 | 240 | 0 | .8115 | .000v | .889  | .593  | 279 | 960  | 540 | 0 | .5946 | .000v | .841  | .654  |
| 166 | 720 | 240 | 0 | .8097 | .000v | .824  | .524  | 280 | 1000 | 540 | 0 | .5966 | .000v | .860  | .713  |
| 167 | 760 | 240 | 0 | .8083 | .000v | .821  | .459  | 281 | 200  | 540 | 0 | .5991 | .000v | .900  | .752  |
| 168 | 800 | 240 | 0 | .8072 | .000v | .786  | .420  | 282 | 240  | 540 | 0 | .5919 | .000v | .929  | .790  |
| 169 | 8   | 320 | 0 | .8123 | .000v | .794  | .614  | 283 | 280  | 540 | 0 | .5951 | .000v | 1.031 | .820  |
| 170 | 40  | 320 | 0 | .8141 | .000v | .840  | .680  | 284 | 320  | 540 | 0 | .5920 | .000v | 1.095 | .890  |
| 171 | 80  | 320 | 0 | .8164 | .000v | .880  | .737  | 285 | 360  | 540 | 0 | .5935 | .000v | 1.073 | .933  |
| 172 | 120 | 320 | 0 | .8194 | .000v | .909  | .783  | 286 | 400  | 540 | 0 | .5972 | .000v | 1.096 | .952  |
| 173 | 160 | 320 | 0 | .8231 | .000v | .920  | .829  | 287 | 440  | 540 | 0 | .5984 | .000v | 1.076 | .946  |
| 174 | 200 | 320 | 0 | .8280 | .000v | 1.032 | .897  | 288 | 480  | 540 | 0 | .5969 | .000v | 1.048 | .969  |
| 175 | 240 | 320 | 0 | .8343 | .000v | 1.098 | .957  | 289 | 520  | 540 | 0 | .5934 | .000v | 1.013 | .973  |
| 176 | 280 | 320 | 0 | .8412 | .000v | 1.113 | 1.020 | 289 | 560  | 540 | 0 | .5927 | .000v | .941  | .851  |
| 177 | 320 | 320 | 0 | .8479 | .000v | 1.024 | 1.058 | 290 | 600  | 540 | 0 | .5940 | .000v | .813  | .779  |
| 178 | 360 | 320 | 0 | .8531 | .000v | 1.024 | 1.124 | 292 | 640  | 540 | 0 | .5996 | .000v | .905  | .870  |
| 179 | 400 | 320 | 0 | .8560 | .000v | 1.046 | 1.149 | 293 | 680  | 540 | 0 | .5963 | .000v | .808  | .808  |
| 180 | 440 | 320 | 0 | .8542 | .000v | 1.021 | 1.140 | 294 | 720  | 540 | 0 | .5937 | .000v | .849  | .846  |
| 181 | 480 | 320 | 0 | .8442 | .000v | 1.051 | 1.066 | 295 | 760  | 540 | 0 | .5917 | .000v | .817  | .829  |
| 182 | 520 | 320 | 0 | .8331 | .000v | 1.067 | .967  | 296 | 800  | 540 | 0 | .5901 | .000v | .764  | .800  |
| 183 | 560 | 320 | 0 | .8250 | .000v | 1.092 | .921  | 297 | 840  | 540 | 0 | .5991 | .000v | .725  | .824  |
| 184 | 600 | 320 | 0 | .8195 | .000v | 1.026 | .772  | 298 | 880  | 540 | 0 | .5902 | .000v | .782  | .802  |
| 185 | 640 | 320 | 0 | .8156 | .000v | .934  | .694  | 299 | 920  | 540 | 0 | .5914 | .000v | .818  | .807  |
| 186 | 680 | 320 | 0 | .8127 | .000v | .899  | .657  | 300 | 960  | 540 | 0 | .5929 | .000v | .835  | .840  |
| 187 | 720 | 320 | 0 | .8106 | .000v | .870  | .604  | 301 | 1000 | 540 | 0 | .5945 | .000v | .862  | .885  |
| 188 | 760 | 320 | 0 | .8089 | .000v | .850  | .580  | 302 | 200  | 540 | 0 | .5969 | .000v | .895  | .924  |
| 189 | 800 | 320 | 0 | .8076 | .000v | .800  | .510  | 303 | 240  | 540 | 0 | .5982 | .000v | .862  | .734  |
| 190 | 0   | 340 | 0 | .8129 | .000v | .868  | .644  | 304 | 280  | 540 | 0 | .5905 | .000v | .813  | .797  |
| 191 | 40  | 340 | 0 | .8149 | .000v | .880  | .710  | 305 | 320  | 540 | 0 | .5933 | .000v | .856  | .801  |
| 192 | 80  | 340 | 0 | .8175 | .000v | .907  | .767  | 306 | 360  | 540 | 0 | .5963 | .000v | .872  | .848  |
| 193 | 120 | 340 | 0 | .8210 | .000v | .911  | .777  | 307 | 400  | 540 | 0 | .5986 | .000v | .892  | .849  |
| 194 | 160 | 340 | 0 | .8256 | .000v | .963  | .855  | 308 | 440  | 540 | 0 | .5993 | .000v | .872  | .837  |
| 195 | 200 | 340 | 0 | .8321 | .000v | 1.083 | .981  | 309 | 480  | 540 | 0 | .5987 | .000v | .941  | .854  |
| 196 | 240 | 340 | 0 | .8415 | .000v | 1.123 | .977  | 310 | 520  | 540 | 0 | .5968 | .000v | .859  | .850  |
| 197 | 280 | 340 | 0 | .8552 | .000v | 1.179 | 1.105 | 311 | 560  | 540 | 0 | .5942 | .000v | .813  | .799  |
| 198 | 320 | 340 | 0 | .8741 | .000v | 1.248 | 1.180 | 312 | 600  | 540 | 0 | .5911 | .000v | .869  | .839  |
| 199 | 360 | 340 | 0 | .8993 | .000v | 1.247 | 1.155 | 313 | 640  | 540 | 0 | .5919 | .000v | .862  | .820  |
| 200 | 400 | 340 | 0 | .9174 | .000v | 1.247 | 1.098 | 314 | 680  | 540 | 0 | .5952 | .000v | .861  | .815  |
| 201 | 440 | 340 | 0 | .9493 | .000v | 1.148 | 1.040 | 315 | 720  | 540 | 0 | .5929 | .000v | .819  | .831  |
| 202 | 480 | 340 | 0 | .9426 | .000v | 1.042 | 1.178 | 316 | 760  | 540 | 0 | .5911 | .000v | .791  | .797  |
| 203 | 520 | 340 | 0 | .9127 | .000v | 1.189 | 1.049 | 317 | 800  | 540 | 0 | .5997 | .000v | .841  | .846  |
| 204 | 560 | 340 | 0 | .8804 | .000v | 1.124 | .914  | 318 | 840  | 540 | 0 | .5994 | .000v | .725  | .490  |
| 205 | 600 | 340 | 0 | .8236 | .000v | 1.076 | .766  | 319 | 880  | 540 | 0 | .5982 | .000v | .741  | .532  |
| 206 | 640 | 340 | 0 | .8175 | .000v | .902  | .696  | 320 | 920  | 540 | 0 | .5903 | .000v | .781  | .559  |
| 207 | 680 | 340 | 0 | .8139 | .000v | .850  | .677  | 321 | 960  | 540 | 0 | .5914 | .000v | .820  | .594  |
| 208 | 720 | 340 | 0 | .8114 | .000v | .887  | .618  | 322 | 1000 | 540 | 0 | .5927 | .000v | .841  | .642  |
| 209 | 760 | 340 | 0 | .8095 | .000v | .863  | .643  | 323 | 200  | 540 | 0 | .5940 | .000v | .811  | .682  |
| 210 | 800 | 340 | 0 | .8080 | .000v | .811  | .610  | 324 | 240  | 540 | 0 | .5954 | .000v | .850  | .708  |
| 211 | 0   | 400 | 0 | .8132 | .000v | .818  | .675  | 325 | 280  | 540 | 0 | .5971 | .000v | .889  | .736  |
| 212 | 40  | 400 | 0 | .8154 | .000v | .867  | .717  | 326 | 320  | 540 | 0 | .5991 | .000v | .892  | .756  |
| 213 | 80  | 400 | 0 | .8182 | .000v | .889  | .736  | 327 | 360  | 540 | 0 | .5913 | .000v | .902  | .833  |
| 214 | 120 | 400 | 0 | .8219 | .000v | .909  | .783  | 328 | 400  | 540 | 0 | .5928 | .000v | .882  | .813  |
| 215 | 160 | 400 | 0 | .8271 | .000v | .945  | .843  | 329 | 440  | 540 | 0 | .5960 | .000v | .897  | .792  |
| 216 | 200 | 400 | 0 | .8347 | .000v | 1.067 | .972  | 330 | 480  | 540 | 0 | .5930 | .000v | .869  | .784  |
| 217 | 240 | 400 | 0 | .8444 | .000v | 1.131 | .988  | 331 | 520  | 540 | 0 | .5919 | .000v | .869  | .753  |
| 218 | 280 | 400 | 0 | .8661 | .000v | 1.227 | 1.151 | 332 | 560  | 540 | 0 | .5904 | .000v | .862  | .752  |
| 219 | 320 | 400 | 0 | .8909 | .000v | 1.263 | 1.115 | 333 | 600  | 540 | 0 | .5904 | .000v | .808  | .743  |
| 220 | 360 | 400 | 0 | .9202 | .000v | .913  | .885  | 334 | 640  | 540 | 0 | .5912 | .000v | .862  | .731  |
| 221 | 400 | 400 | 0 | .9421 | .000v | .824  | .803  | 335 | 680  | 540 | 0 | .5941 | .000v | .824  | .693  |
| 222 | 440 | 400 | 0 | .9135 | .000v |       |       |     |      |     |   |       |       |       |       |



| ЗАМЕЩАЮЩИЕ ВЕЩЕСТВА № 4 - при заваривании ПМБ |      |                |                     |
|---|------|----------------|---------------------|
| дегидрохлор                                   | С1 - | 240,50 [мг/мл] | С2 - 20,000 [мг/мл] |
| или этанол                                    | В -  | 14,00 [мг/мл]  |                     |

7

|     |     |     |   |        |        |      |       |     |     |     |   |        |        |      |       |
|-----|-----|-----|---|--------|--------|------|-------|-----|-----|-----|---|--------|--------|------|-------|
| 150 | 80  | 210 | 0 | 14.000 | -0.00v | 1.77 | -0.02 | 394 | 360 | 540 | 0 | 14.001 | -0.00v | 2.23 | -0.17 |
| 151 | 120 | 210 | 0 | 14.000 | -0.00v | 1.76 | -0.03 | 315 | 400 | 540 | 0 | 14.001 | -0.00v | 2.35 | -0.20 |
| 152 | 160 | 210 | 0 | 14.000 | -0.00v | 1.77 | -0.03 | 315 | 440 | 540 | 0 | 14.001 | -0.00v | 2.35 | -0.19 |
| 153 | 200 | 210 | 0 | 14.000 | -0.00v | 1.76 | -0.04 | 327 | 480 | 540 | 0 | 14.001 | -0.00v | 1.92 | -0.14 |
| 154 | 240 | 210 | 0 | 14.000 | -0.00v | 1.17 | -0.05 | 358 | 520 | 540 | 0 | 14.001 | -0.00v | 1.47 | -0.10 |
| 155 | 280 | 210 | 0 | 14.001 | -0.00v | 1.25 | -0.05 | 369 | 560 | 540 | 0 | 14.001 | -0.00v | 1.33 | -0.07 |
| 156 | 320 | 210 | 0 | 14.001 | -0.00v | 1.54 | -0.06 | 375 | 600 | 540 | 0 | 14.000 | -0.00v | 1.31 | -0.05 |
| 157 | 360 | 210 | 0 | 14.001 | -0.00v | 1.70 | -0.06 | 311 | 640 | 540 | 0 | 14.000 | -0.00v | 1.94 | -0.04 |
| 158 | 400 | 210 | 0 | 14.001 | -0.00v | 1.77 | -0.07 | 313 | 680 | 540 | 0 | 14.000 | -0.00v | 1.91 | -0.03 |
| 159 | 440 | 210 | 0 | 14.001 | -0.00v | 1.77 | -0.06 | 313 | 720 | 540 | 0 | 14.000 | -0.00v | 1.70 | -0.02 |
| 160 | 480 | 210 | 0 | 14.001 | -0.00v | 1.75 | -0.06 | 314 | 760 | 540 | 0 | 14.000 | -0.00v | 1.62 | -0.02 |
| 161 | 520 | 210 | 0 | 14.000 | -0.00v | 1.35 | -0.05 | 313 | 800 | 540 | 0 | 14.000 | -0.00v | 1.55 | -0.02 |
| 162 | 560 | 210 | 0 | 14.000 | -0.00v | 1.17 | -0.04 | 314 | 0   | 540 | 0 | 14.000 | -0.00v | 1.53 | -0.02 |
| 163 | 600 | 210 | 0 | 14.000 | -0.00v | 1.11 | -0.03 | 317 | 40  | 540 | 0 | 14.000 | -0.00v | 1.52 | -0.02 |
| 164 | 640 | 210 | 0 | 14.000 | -0.00v | 1.67 | -0.02 | 318 | 80  | 540 | 0 | 14.000 | -0.00v | 1.46 | -0.02 |
| 165 | 680 | 210 | 0 | 14.000 | -0.00v | 1.76 | -0.02 | 319 | 120 | 540 | 0 | 14.000 | -0.00v | 1.75 | -0.03 |
| 166 | 720 | 210 | 0 | 14.000 | -0.00v | 1.67 | -0.02 | 323 | 160 | 540 | 0 | 14.000 | -0.00v | 1.66 | -0.03 |
| 167 | 760 | 210 | 0 | 14.000 | -0.00v | 1.29 | -0.02 | 321 | 200 | 540 | 0 | 14.000 | -0.00v | 1.50 | -0.01 |
| 168 | 800 | 210 | 0 | 14.000 | -0.00v | 1.63 | -0.01 | 322 | 240 | 540 | 0 | 14.000 | -0.00v | 1.14 | -0.05 |
| 169 | 0   | 320 | 0 | 14.000 | -0.00v | 1.55 | -0.02 | 323 | 280 | 540 | 0 | 14.001 | -0.00v | 1.31 | -0.06 |
| 170 | 40  | 320 | 0 | 14.000 | -0.00v | 1.42 | -0.02 | 321 | 320 | 540 | 0 | 14.001 | -0.00v | 1.52 | -0.06 |
| 171 | 80  | 320 | 0 | 14.000 | -0.00v | 1.76 | -0.03 | 325 | 360 | 540 | 0 | 14.001 | -0.00v | 1.44 | -0.10 |
| 172 | 120 | 320 | 0 | 14.000 | -0.00v | 1.61 | -0.03 | 326 | 400 | 540 | 0 | 14.001 | -0.00v | 1.71 | -0.12 |
| 173 | 160 | 320 | 0 | 14.000 | -0.00v | 1.55 | -0.04 | 327 | 440 | 540 | 0 | 14.001 | -0.00v | 1.45 | -0.10 |
| 174 | 200 | 320 | 0 | 14.001 | -0.00v | 1.12 | -0.05 | 329 | 480 | 540 | 0 | 14.001 | -0.00v | 1.51 | -0.08 |
| 175 | 240 | 320 | 0 | 14.001 | -0.00v | 1.35 | -0.06 | 329 | 520 | 540 | 0 | 14.001 | -0.00v | 1.51 | -0.08 |
| 176 | 280 | 320 | 0 | 14.001 | -0.00v | 1.64 | -0.09 | 329 | 560 | 540 | 0 | 14.001 | -0.00v | 1.15 | -0.06 |
| 177 | 320 | 320 | 0 | 14.001 | -0.00v | 1.57 | -0.09 | 331 | 600 | 540 | 0 | 14.000 | -0.00v | 1.62 | -0.05 |
| 178 | 360 | 320 | 0 | 14.001 | -0.00v | 1.29 | -0.11 | 332 | 640 | 540 | 0 | 14.001 | -0.00v | 1.64 | -0.04 |
| 179 | 400 | 320 | 0 | 14.001 | -0.00v | 1.42 | -0.11 | 332 | 680 | 540 | 0 | 14.000 | -0.00v | 1.95 | -0.03 |
| 180 | 440 | 320 | 0 | 14.001 | -0.00v | 2.30 | -0.11 | 331 | 720 | 540 | 0 | 14.000 | -0.00v | 1.46 | -0.02 |
| 181 | 480 | 320 | 0 | 14.001 | -0.00v | 1.94 | -0.08 | 335 | 760 | 540 | 0 | 14.000 | -0.00v | 1.59 | -0.02 |
| 182 | 520 | 320 | 0 | 14.001 | -0.00v | 1.64 | -0.08 | 336 | 800 | 540 | 0 | 14.000 | -0.00v | 1.53 | -0.02 |
| 183 | 560 | 320 | 0 | 14.000 | -0.00v | 1.35 | -0.05 | 337 | 0   | 640 | 0 | 14.000 | -0.00v | 1.50 | -0.01 |
| 184 | 600 | 320 | 0 | 14.000 | -0.00v | 1.12 | -0.03 | 338 | 40  | 640 | 0 | 14.000 | -0.00v | 1.56 | -0.02 |
| 185 | 640 | 320 | 0 | 14.000 | -0.00v | 1.58 | -0.03 | 339 | 80  | 640 | 0 | 14.000 | -0.00v | 1.42 | -0.02 |
| 186 | 680 | 320 | 0 | 14.000 | -0.00v | 1.12 | -0.02 | 340 | 120 | 640 | 0 | 14.000 | -0.00v | 1.02 | -0.02 |
| 187 | 720 | 320 | 0 | 14.000 | -0.00v | 1.70 | -0.03 | 341 | 160 | 640 | 0 | 14.000 | -0.00v | 1.78 | -0.03 |
| 188 | 760 | 320 | 0 | 14.000 | -0.00v | 1.42 | -0.01 | 342 | 200 | 640 | 0 | 14.000 | -0.00v | 1.69 | -0.03 |
| 189 | 800 | 320 | 0 | 14.000 | -0.00v | 1.55 | -0.01 | 343 | 240 | 640 | 0 | 14.000 | -0.00v | 1.50 | -0.04 |
| 190 | 0   | 400 | 0 | 14.000 | -0.00v | 1.57 | -0.02 | 344 | 280 | 640 | 0 | 14.000 | -0.00v | 1.11 | -0.02 |
| 191 | 40  | 400 | 0 | 14.000 | -0.00v | 1.64 | -0.02 | 345 | 320 | 640 | 0 | 14.001 | -0.00v | 1.22 | -0.06 |
| 192 | 80  | 400 | 0 | 14.000 | -0.00v | 1.71 | -0.03 | 346 | 360 | 640 | 0 | 14.001 | -0.00v | 1.20 | -0.07 |
| 193 | 120 | 400 | 0 | 14.000 | -0.00v | 1.64 | -0.04 | 347 | 400 | 640 | 0 | 14.001 | -0.00v | 1.13 | -0.08 |
| 194 | 160 | 400 | 0 | 14.000 | -0.00v | 1.62 | -0.05 | 348 | 440 | 640 | 0 | 14.001 | -0.00v | 1.30 | -0.09 |
| 195 | 200 | 400 | 0 | 14.001 | -0.00v | 1.23 | -0.06 | 349 | 480 | 640 | 0 | 14.001 | -0.00v | 1.22 | -0.07 |
| 196 | 240 | 400 | 0 | 14.001 | -0.00v | 1.54 | -0.09 | 350 | 520 | 640 | 0 | 14.001 | -0.00v | 1.11 | -0.06 |
| 197 | 280 | 400 | 0 | 14.001 | -0.00v | 1.97 | -0.12 | 350 | 560 | 640 | 0 | 14.000 | -0.00v | 1.59 | -0.05 |
| 198 | 320 | 400 | 0 | 14.001 | -0.00v | 2.16 | -0.16 | 352 | 600 | 640 | 0 | 14.000 | -0.00v | 1.68 | -0.04 |
| 199 | 360 | 400 | 0 | 14.002 | -0.00v | 3.20 | -0.21 | 353 | 640 | 640 | 0 | 14.000 | -0.00v | 1.71 | -0.03 |
| 200 | 400 | 400 | 0 | 14.002 | -0.00v | 3.70 | -0.24 | 354 | 680 | 640 | 0 | 14.000 | -0.00v | 1.69 | -0.03 |
| 201 | 440 | 400 | 0 | 14.002 | -0.00v | 3.31 | -0.20 | 355 | 720 | 640 | 0 | 14.000 | -0.00v | 1.62 | -0.02 |
| 202 | 480 | 400 | 0 | 14.001 | -0.00v | 2.45 | -0.13 | 356 | 760 | 640 | 0 | 14.000 | -0.00v | 1.56 | -0.02 |
| 203 | 520 | 400 | 0 | 14.001 | -0.00v | 1.97 | -0.09 | 357 | 800 | 640 | 0 | 14.000 | -0.00v | 1.60 | -0.02 |
| 204 | 560 | 400 | 0 | 14.000 | -0.00v | 1.54 | -0.05 | 358 | 0   | 640 | 0 | 14.000 | -0.00v | 1.69 | -0.01 |
| 205 | 600 | 400 | 0 | 14.000 | -0.00v | 1.04 | -0.04 | 359 | 40  | 640 | 0 | 14.000 | -0.00v | 1.02 | -0.02 |
| 206 | 640 | 400 | 0 | 14.000 | -0.00v | 1.02 | -0.03 | 359 | 80  | 640 | 0 | 14.000 | -0.00v | 1.50 | -0.02 |
| 207 | 680 | 400 | 0 | 14.000 | -0.00v | 1.64 | -0.02 | 361 | 120 | 640 | 0 | 14.000 | -0.00v | 1.44 | -0.02 |
| 208 | 720 | 400 | 0 | 14.000 | -0.00v | 1.71 | -0.02 | 362 | 160 | 640 | 0 | 14.000 | -0.00v | 1.71 | -0.02 |
| 209 | 760 | 400 | 0 | 14.000 | -0.00v | 1.64 | -0.02 | 363 | 200 | 640 | 0 | 14.000 | -0.00v | 1.78 | -0.03 |
| 210 | 800 | 400 | 0 | 14.000 | -0.00v | 1.54 | -0.01 | 364 | 240 | 640 | 0 | 14.000 | -0.00v | 1.64 | -0.03 |
| 211 | 0   | 450 | 0 | 14.000 | -0.00v | 1.58 | -0.02 | 365 | 280 | 640 | 0 | 14.000 | -0.00v | 1.64 | -0.04 |
| 212 | 40  | 450 | 0 | 14.000 | -0.00v | 1.65 | -0.03 | 366 | 320 | 640 | 0 | 14.000 | -0.00v | 1.21 | -0.05 |
| 213 | 80  | 450 | 0 | 14.000 | -0.00v | 1.67 | -0.03 | 367 | 360 | 640 | 0 | 14.000 | -0.00v | 1.05 | -0.05 |
| 214 | 120 | 450 | 0 | 14.000 | -0.00v | 1.69 | -0.04 | 368 | 400 | 640 | 0 | 14.001 | -0.00v | 1.07 | -0.06 |
| 215 | 160 | 450 | 0 | 14.001 | -0.00v | 1.06 | -0.05 | 369 | 440 | 640 | 0 | 14.001 | -0.00v | 1.05 | -0.06 |
| 216 | 200 | 450 | 0 | 14.001 | -0.00v | 1.21 | -0.07 | 370 | 480 | 640 | 0 | 14.001 | -0.00v | 1.00 | -0.06 |
| 217 | 240 | 450 | 0 | 14.001 | -0.00v | 1.11 | -0.06 | 371 | 520 | 640 | 0 | 14.000 | -0.00v | 1.94 | -0.05 |
| 218 | 280 | 450 | 0 | 14.001 | -0.00v | 2.27 | -0.17 | 372 | 560 | 640 | 0 | 14.000 | -0.00v | 1.64 | -0.04 |
| 219 | 320 | 450 | 0 | 14.002 | -0.00v | 3.27 | -0.29 | 373 | 600 | 640 | 0 | 14.000 | -0.00v | 1.73 | -0.03 |
| 220 | 360 | 450 | 0 | 14.004 | -0.00v | 4.97 | -0.54 | 374 | 640 | 640 | 0 | 14.000 | -0.00v | 1.70 | -0.02 |
| 221 | 400 | 450 | 0 | 14.005 | -0.00v | 6.33 | -0.71 | 375 | 680 | 640 | 0 | 14.000 | -0.00v | 1.64 | -0.02 |
| 222 | 440 | 450 | 0 | 14.003 | -0.00v | 5.00 | -0.41 | 376 | 720 | 640 | 0 | 14.000 | -0.00v | 1.87 | -0.02 |
| 223 | 480 | 450 | 0 | 14.002 | -0.00v | 3.18 | -0.19 | 377 | 760 | 640 | 0 | 14.000 | -0.00v | 1.54 | -0.02 |
| 224 | 520 | 450 | 0 | 14.001 | -0.00v | 2.27 | -0.11 | 378 | 800 | 640 | 0 | 14.000 | -0.00v | 1.67 | -0.02 |
| 225 | 560 | 450 | 0 | 14.001 | -0.00v | 1.64 | -0.07 | 379 | 0   | 720 | 0 | 14.000 | -0.00v | 1.65 | -0.01 |
| 226 | 600 | 450 | 0 | 14.000 | -0.00v | 1.32 | -0.05 | 380 | 40  | 720 | 0 | 14.000 | -0.00v | 1.43 | -0.01 |
| 227 | 640 | 450 | 0 | 14.000 | -0.00v | 1.04 | -0.04 | 381 | 80  | 720 | 0 | 14.000 | -0.00v | 1.69 | -0.02 |
| 228 | 680 | 450 | 0 | 14.000 | -0.00v | 1.89 | -0.03 | 382 | 120 | 720 | 0 | 14.000 | -0.00v | 1.66 | -0.02 |
| 229 | 720 | 450 | 0 | 14.000 | -0.00v | 1.75 | -0.02 | 383 | 160 | 720 | 0 | 14.000 | -0.00v | 1.64 | -0.02 |
| 230 | 760 | 450 | 0 | 14.000 | -0.00v | 1.65 | -0.02 | 384 | 200 | 720 | 0 | 14.000 | -0.00v | 1.69 | -0.02 |
| 231 | 800 | 450 | 0 | 14.000 | -0.00v | 1.57 | -0.01 | 385 | 240 | 720 | 0 | 14.000 | -0.00v | 1.75 | -0.01 |
| 232 | 0   | 500 | 0 | 14.000 | -0.00v | 1.64 | -0.02 | 386 | 280 | 720 | 0 | 14.000 | -0.00v | 1.60 | -0.03 |
| 233 | 40  | 500 | 0 | 14.000 | -0.00v | 1.64 | -0.03 | 387 | 320 | 720 | 0 | 14.000 | -0.00v | 1.85 | -0.03 |
| 234 | 80  | 500 | 0 | 14.000 | -0.00v | 1.76 | -0.03 | 389 | 360 | 720 | 0 | 14.000 | -0.00v | 1.88 | -0.04 |
| 235 | 120 | 500 | 0 | 14.000 | -0.00v | 1.90 | -0.04 | 389 | 400 | 720 | 0 | 14.000 | -0.00v | 1.69 | -0.04 |
| 236 | 160 | 500 | 0 | 14.001 | -0.00v | 1.65 | -0.05 | 390 | 440 | 7   |   |        |        |      |       |







12



```

Wyniki obliczen dla
roznicy syrczen gazowych = 21cm

data obliczen : 2021-07-26
identyfikator : ch2-2
opis projektu :
Korzystacze:szkolenia emojji zanie:sysrczen - 2 chlawnie - HWA, KWAR, NC2.

```

Wyniki obliczeń w węzłach siatki przedstawione

DANIECZYZCZENIE NR 1 - wgl: wodory alifatyczne  
 deponowanie D1 = 3000.0 [ug/m3] Da = 1000.0 [ug/m3]  
 tluszczowania B = 100.0 [ug/m3]

| number<br>well | supplirada voda |     |     | statenski<br>statenski<br>[ug/m3] | statenski<br>statenski<br>[ug/m3] | statenski<br>statenski<br>[ug/m3] | statenski<br>statenski<br>[ug/m3] |
|----------------|-----------------|-----|-----|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
|                | [m]             | [m] | [m] |                                   |                                   |                                   |                                   |
| 1              | 0               | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 2              | 40              | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 3              | 80              | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 4              | 120             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 5              | 160             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 6              | 200             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 7              | 240             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 8              | 280             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 9              | 320             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 10             | 360             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 11             | 400             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 12             | 440             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 13             | 480             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 14             | 520             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 15             | 560             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 16             | 600             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 17             | 640             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 18             | 680             | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 19             | 720             | 0   | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 20             | 760             | 0   | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 21             | 800             | 0   | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 22             | 0               | 0   | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 23             | 40              | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 24             | 80              | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 25             | 120             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 26             | 160             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 27             | 200             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 28             | 240             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 29             | 280             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 30             | 320             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 31             | 360             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 32             | 400             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 33             | 440             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 34             | 480             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 35             | 520             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 36             | 560             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 37             | 600             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 38             | 640             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 39             | 680             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 40             | 720             | 40  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 41             | 760             | 40  | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 42             | 800             | 40  | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 43             | 0               | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 44             | 40              | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 45             | 80              | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 46             | 120             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 47             | 160             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 48             | 200             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 49             | 240             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 50             | 280             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 51             | 320             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 52             | 360             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 53             | 400             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 54             | 440             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 55             | 480             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 56             | 520             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 57             | 560             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 58             | 600             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 59             | 640             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 60             | 680             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 61             | 720             | 80  | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 62             | 760             | 80  | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 63             | 800             | 80  | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 64             | 0               | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 65             | 40              | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 66             | 80              | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 67             | 120             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 68             | 160             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 69             | 200             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 70             | 240             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 71             | 280             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 72             | 320             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 73             | 360             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 74             | 400             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 75             | 440             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 76             | 480             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 77             | 520             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 78             | 560             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 79             | 600             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 80             | 640             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 81             | 680             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 82             | 720             | 120 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 83             | 760             | 120 | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 84             | 800             | 120 | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 85             | 0               | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 86             | 40              | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 87             | 80              | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 88             | 120             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 89             | 160             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 90             | 200             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 91             | 240             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 92             | 280             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 93             | 320             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 94             | 360             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 95             | 400             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 96             | 440             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 97             | 480             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 98             | 520             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 99             | 560             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 100            | 600             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 101            | 640             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 102            | 680             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 103            | 720             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 104            | 760             | 140 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 105            | 800             | 140 | 0   | 100.0v                            | 0.00v                             | 0                                 | 0                                 |
| 106            | 0               | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 107            | 40              | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 108            | 80              | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 109            | 120             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 110            | 160             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 111            | 200             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 112            | 240             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 113            | 280             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 114            | 320             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 115            | 360             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 116            | 400             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 117            | 440             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 118            | 480             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |
| 119            | 520             | 200 | 0   | 100.0                             | 0.00v                             | 0                                 | 0                                 |

|     |      |     |   |       |       |     |
|-----|------|-----|---|-------|-------|-----|
| 121 | 560  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 121 | 600  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 122 | 640  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 123 | 680  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 124 | 720  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 125 | 760  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 126 | 800  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 127 | 840  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 128 | 880  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 129 | 920  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 130 | 960  | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 131 | 1000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 132 | 1040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 133 | 1080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 134 | 1120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 135 | 1160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 136 | 1200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 137 | 1240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 138 | 1280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 139 | 1320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 140 | 1360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 141 | 1400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 142 | 1440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 143 | 1480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 144 | 1520 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 145 | 1560 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 146 | 1600 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 147 | 1640 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 148 | 1680 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 149 | 1720 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 150 | 1760 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 151 | 1800 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 152 | 1840 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 153 | 1880 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 154 | 1920 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 155 | 1960 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 156 | 2000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 157 | 2040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 158 | 2080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 159 | 2120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 160 | 2160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 161 | 2200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 162 | 2240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 163 | 2280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 164 | 2320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 165 | 2360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 166 | 2400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 167 | 2440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 168 | 2480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 169 | 2520 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 170 | 2560 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 171 | 2600 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 172 | 2640 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 173 | 2680 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 174 | 2720 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 175 | 2760 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 176 | 2800 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 177 | 2840 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 178 | 2880 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 179 | 2920 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 180 | 2960 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 181 | 3000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 182 | 3040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 183 | 3080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 184 | 3120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 185 | 3160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 186 | 3200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 187 | 3240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 188 | 3280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 189 | 3320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 190 | 3360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 191 | 3400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 192 | 3440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 193 | 3480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 194 | 3520 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 195 | 3560 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 196 | 3600 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 197 | 3640 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 198 | 3680 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 199 | 3720 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 200 | 3760 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 201 | 3800 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 202 | 3840 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 203 | 3880 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 204 | 3920 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 205 | 3960 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 206 | 4000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 207 | 4040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 208 | 4080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 209 | 4120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 210 | 4160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 211 | 4200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 212 | 4240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 213 | 4280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 214 | 4320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 215 | 4360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 216 | 4400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 217 | 4440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 218 | 4480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 219 | 4520 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 220 | 4560 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 221 | 4600 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 222 | 4640 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 223 | 4680 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 224 | 4720 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 225 | 4760 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 226 | 4800 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 227 | 4840 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 228 | 4880 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 229 | 4920 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 230 | 4960 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 231 | 5000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 232 | 5040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 233 | 5080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 234 | 5120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 235 | 5160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 236 | 5200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 237 | 5240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 238 | 5280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 239 | 5320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 240 | 5360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 241 | 5400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 242 | 5440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 243 | 5480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 244 | 5520 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 245 | 5560 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 246 | 5600 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 247 | 5640 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 248 | 5680 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 249 | 5720 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 250 | 5760 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 251 | 5800 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 252 | 5840 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 253 | 5880 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 254 | 5920 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 255 | 5960 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 256 | 6000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 257 | 6040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 258 | 6080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 259 | 6120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 260 | 6160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 261 | 6200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 262 | 6240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 263 | 6280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 264 | 6320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 265 | 6360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 266 | 6400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 267 | 6440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 268 | 6480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 269 | 6520 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 270 | 6560 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 271 | 6600 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 272 | 6640 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 273 | 6680 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 274 | 6720 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 275 | 6760 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 276 | 6800 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 277 | 6840 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 278 | 6880 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 279 | 6920 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 280 | 6960 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 281 | 7000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 282 | 7040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 283 | 7080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 284 | 7120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 285 | 7160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 286 | 7200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 287 | 7240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 288 | 7280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 289 | 7320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 290 | 7360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 291 | 7400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 292 | 7440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 293 | 7480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 294 | 7520 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 295 | 7560 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 296 | 7600 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 297 | 7640 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 298 | 7680 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 299 | 7720 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 300 | 7760 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 301 | 7800 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 302 | 7840 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 303 | 7880 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 304 | 7920 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 305 | 7960 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 306 | 8000 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 307 | 8040 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 308 | 8080 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 309 | 8120 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 310 | 8160 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 311 | 8200 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 312 | 8240 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 313 | 8280 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 314 | 8320 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 315 | 8360 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 316 | 8400 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 317 | 8440 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 318 | 8480 | 230 | 0 | 102.0 | 0.00% | 0.0 |
| 319 | 8520 | 230 | 0 | 102.0 | 0.00% | 0   |

[illegible]



|     |     |     |   |       |       |   |   |
|-----|-----|-----|---|-------|-------|---|---|
| 400 | 800 | 610 | 0 | 4.100 | 0.00v | 0 | 0 |
| 400 | 720 | 820 | 0 | 4.100 | 0.00v | 0 | 0 |
| 400 | 760 | 810 | 0 | 4.100 | 0.00v | 0 | 0 |
| 400 | 800 | 810 | 0 | 4.100 | 0.00v | 0 | 0 |

wartosci srednie

|       |      |   |   |
|-------|------|---|---|
| 4.100 | 0.00 | 0 | 0 |
|-------|------|---|---|

|           |               |      |               |
|-----------|---------------|------|---------------|
| dispersja | 210.0 [ug/m3] | Da = | 40.00 [ug/m3] |
| std. dev. | 7.00 [ug/m3]  |      |               |

| numer<br>warla | x<br>[m] | y<br>[m] | z<br>[m] | wspolrzedne warla | stwierdzenie<br>stwierdzenia | ciężar<br>ciężaru | stwierdzenie l-podł.<br>stwierdzenia |
|----------------|----------|----------|----------|-------------------|------------------------------|-------------------|--------------------------------------|
| 1              | 0        | 0        | 0        | 7.001             | 0.00v                        | 3.85              | 0.07                                 |
| 2              | 80       | 0        | 0        | 7.001             | 0.00v                        | 3.74              | 0.08                                 |
| 3              | 80       | 0        | 0        | 7.001             | 0.00v                        | 3.99              | 0.08                                 |
| 4              | 120      | 0        | 0        | 7.001             | 0.00v                        | 4.21              | 0.08                                 |
| 5              | 160      | 0        | 0        | 7.001             | 0.00v                        | 4.01              | 0.09                                 |
| 6              | 200      | 0        | 0        | 7.001             | 0.00v                        | 4.45              | 0.08                                 |
| 7              | 240      | 0        | 0        | 7.001             | 0.00v                        | 4.62              | 0.10                                 |
| 8              | 280      | 0        | 0        | 7.001             | 0.00v                        | 4.99              | 0.10                                 |
| 9              | 320      | 0        | 0        | 7.001             | 0.00v                        | 5.11              | 0.10                                 |
| 10             | 360      | 0        | 0        | 7.001             | 0.00v                        | 5.13              | 0.10                                 |
| 11             | 400      | 0        | 0        | 7.001             | 0.00v                        | 5.22              | 0.10                                 |
| 12             | 440      | 0        | 0        | 7.001             | 0.00v                        | 5.20              | 0.10                                 |
| 13             | 480      | 0        | 0        | 7.001             | 0.00v                        | 5.11              | 0.10                                 |
| 14             | 520      | 0        | 0        | 7.001             | 0.00v                        | 4.93              | 0.10                                 |
| 15             | 560      | 0        | 0        | 7.001             | 0.00v                        | 4.83              | 0.10                                 |
| 16             | 600      | 0        | 0        | 7.001             | 0.00v                        | 4.64              | 0.09                                 |
| 17             | 640      | 0        | 0        | 7.001             | 0.00v                        | 4.43              | 0.09                                 |
| 18             | 680      | 0        | 0        | 7.001             | 0.00v                        | 4.21              | 0.08                                 |
| 19             | 720      | 0        | 0        | 7.001             | 0.00v                        | 3.99              | 0.07                                 |
| 20             | 760      | 0        | 0        | 7.001             | 0.00v                        | 3.76              | 0.07                                 |
| 21             | 800      | 0        | 0        | 7.001             | 0.00v                        | 3.54              | 0.06v                                |
| 22             | 0        | 40       | 0        | 7.001             | 0.00v                        | 3.75              | 0.08                                 |
| 23             | 40       | 40       | 0        | 7.001             | 0.00v                        | 4.05              | 0.09                                 |
| 24             | 80       | 40       | 0        | 7.001             | 0.00v                        | 4.31              | 0.09                                 |
| 25             | 120      | 40       | 0        | 7.001             | 0.00v                        | 4.54              | 0.10                                 |
| 26             | 160      | 40       | 0        | 7.001             | 0.00v                        | 4.84              | 0.10                                 |
| 27             | 200      | 40       | 0        | 7.001             | 0.00v                        | 5.11              | 0.11                                 |
| 28             | 240      | 40       | 0        | 7.001             | 0.00v                        | 5.35              | 0.11                                 |
| 29             | 280      | 40       | 0        | 7.001             | 0.00v                        | 5.57              | 0.12                                 |
| 30             | 320      | 40       | 0        | 7.001             | 0.00v                        | 5.73              | 0.12                                 |
| 31             | 360      | 40       | 0        | 7.002             | 0.00v                        | 5.03              | 0.12                                 |
| 32             | 400      | 40       | 0        | 7.002             | 0.00v                        | 5.45              | 0.12                                 |
| 33             | 440      | 40       | 0        | 7.002             | 0.00v                        | 5.65              | 0.12                                 |
| 34             | 480      | 40       | 0        | 7.001             | 0.00v                        | 5.74              | 0.12                                 |
| 35             | 520      | 40       | 0        | 7.001             | 0.00v                        | 5.54              | 0.12                                 |
| 36             | 560      | 40       | 0        | 7.001             | 0.00v                        | 5.24              | 0.11                                 |
| 37             | 600      | 40       | 0        | 7.001             | 0.00v                        | 5.11              | 0.11                                 |
| 38             | 640      | 40       | 0        | 7.001             | 0.00v                        | 4.85              | 0.10                                 |
| 39             | 680      | 40       | 0        | 7.001             | 0.00v                        | 4.52              | 0.09                                 |
| 40             | 720      | 40       | 0        | 7.001             | 0.00v                        | 4.21              | 0.08                                 |
| 41             | 760      | 40       | 0        | 7.001             | 0.00v                        | 4.15              | 0.07                                 |
| 42             | 800      | 40       | 0        | 7.001             | 0.00v                        | 3.65              | 0.07                                 |
| 43             | 0        | 80       | 0        | 7.001             | 0.00v                        | 4.05              | 0.09                                 |
| 44             | 40       | 80       | 0        | 7.001             | 0.00v                        | 4.29              | 0.10                                 |
| 45             | 80       | 80       | 0        | 7.001             | 0.00v                        | 4.64              | 0.11                                 |
| 46             | 120      | 80       | 0        | 7.001             | 0.00v                        | 4.97              | 0.11                                 |
| 47             | 160      | 80       | 0        | 7.001             | 0.00v                        | 5.22              | 0.12                                 |
| 48             | 200      | 80       | 0        | 7.002             | 0.00v                        | 5.65              | 0.13                                 |
| 49             | 240      | 80       | 0        | 7.002             | 0.00v                        | 5.94              | 0.13                                 |
| 50             | 280      | 80       | 0        | 7.002             | 0.00v                        | 6.27              | 0.14                                 |
| 51             | 320      | 80       | 0        | 7.002             | 0.00v                        | 6.56              | 0.14                                 |
| 52             | 360      | 80       | 0        | 7.002             | 0.00v                        | 6.65              | 0.14                                 |
| 53             | 400      | 80       | 0        | 7.002             | 0.00v                        | 6.70              | 0.14                                 |
| 54             | 440      | 80       | 0        | 7.002             | 0.00v                        | 6.45              | 0.14                                 |
| 55             | 480      | 80       | 0        | 7.002             | 0.00v                        | 6.15              | 0.14                                 |
| 56             | 520      | 80       | 0        | 7.002             | 0.00v                        | 6.26              | 0.14                                 |
| 57             | 560      | 80       | 0        | 7.002             | 0.00v                        | 6.05              | 0.13                                 |
| 58             | 600      | 80       | 0        | 7.001             | 0.00v                        | 5.67              | 0.12                                 |
| 59             | 640      | 80       | 0        | 7.001             | 0.00v                        | 5.31              | 0.11                                 |
| 60             | 680      | 80       | 0        | 7.001             | 0.00v                        | 4.99              | 0.10                                 |
| 61             | 720      | 80       | 0        | 7.001             | 0.00v                        | 4.64              | 0.09                                 |
| 62             | 760      | 80       | 0        | 7.001             | 0.00v                        | 4.24              | 0.08                                 |
| 63             | 800      | 80       | 0        | 7.001             | 0.00v                        | 4.05              | 0.07                                 |
| 64             | 0        | 120      | 0        | 7.001             | 0.00v                        | 4.29              | 0.11                                 |
| 65             | 40       | 120      | 0        | 7.001             | 0.00v                        | 4.64              | 0.11                                 |
| 66             | 80       | 120      | 0        | 7.002             | 0.00v                        | 5.02              | 0.13                                 |
| 67             | 120      | 120      | 0        | 7.002             | 0.00v                        | 5.61              | 0.14                                 |
| 68             | 160      | 120      | 0        | 7.002             | 0.00v                        | 5.86              | 0.15                                 |
| 69             | 200      | 120      | 0        | 7.002             | 0.00v                        | 6.31              | 0.16                                 |
| 70             | 240      | 120      | 0        | 7.002             | 0.00v                        | 6.78              | 0.16                                 |
| 71             | 280      | 120      | 0        | 7.002             | 0.00v                        | 7.14              | 0.17                                 |
| 72             | 320      | 120      | 0        | 7.002             | 0.00v                        | 7.47              | 0.18                                 |
| 73             | 360      | 120      | 0        | 7.002             | 0.00v                        | 7.69              | 0.18                                 |
| 74             | 400      | 120      | 0        | 7.002             | 0.00v                        | 7.75              | 0.18                                 |
| 75             | 440      | 120      | 0        | 7.002             | 0.00v                        | 7.69              | 0.18                                 |
| 76             | 480      | 120      | 0        | 7.002             | 0.00v                        | 7.47              | 0.17                                 |
| 77             | 520      | 120      | 0        | 7.002             | 0.00v                        | 7.15              | 0.16                                 |
| 78             | 560      | 120      | 0        | 7.002             | 0.00v                        | 6.76              | 0.14                                 |
| 79             | 600      | 120      | 0        | 7.002             | 0.00v                        | 6.32              | 0.14                                 |
| 80             | 640      | 120      | 0        | 7.001             | 0.00v                        | 5.94              | 0.13                                 |
| 81             | 680      | 120      | 0        | 7.001             | 0.00v                        | 5.45              | 0.12                                 |
| 82             | 720      | 120      | 0        | 7.001             | 0.00v                        | 5.01              | 0.10                                 |
| 83             | 760      | 120      | 0        | 7.001             | 0.00v                        | 4.65              | 0.09                                 |
| 84             | 800      | 120      | 0        | 7.001             | 0.00v                        | 4.20              | 0.08                                 |
| 85             | 0        | 160      | 0        | 7.002             | 0.00v                        | 6.78              | 0.16                                 |
| 86             | 40       | 160      | 0        | 7.002             | 0.00v                        | 7.14              | 0.17                                 |
| 87             | 80       | 160      | 0        | 7.002             | 0.00v                        | 7.47              | 0.18                                 |
| 88             | 120      | 160      | 0        | 7.002             | 0.00v                        | 7.69              | 0.18                                 |
| 89             | 160      | 160      | 0        | 7.002             | 0.00v                        | 7.75              | 0.18                                 |
| 90             | 200      | 160      | 0        | 7.002             | 0.00v                        | 7.69              | 0.18                                 |
| 91             | 240      | 160      | 0        | 7.002             | 0.00v                        | 7.47              | 0.17                                 |
| 92             | 280      | 160      | 0        | 7.002             | 0.00v                        | 7.15              | 0.16                                 |
| 93             | 320      | 160      | 0        | 7.002             | 0.00v                        | 6.76              | 0.14                                 |
| 94             | 360      | 160      | 0        | 7.003             | 0.00v                        | 6.32              | 0.14                                 |
| 95             | 400      | 160      | 0        | 7.003             | 0.00v                        | 5.94              | 0.13                                 |
| 96             | 440      | 160      | 0        | 7.003             | 0.00v                        | 5.45              | 0.12                                 |
| 97             | 480      | 160      | 0        | 7.003             | 0.00v                        | 5.01              | 0.10                                 |
| 98             | 520      | 160      | 0        | 7.002             | 0.00v                        | 4.65              | 0.09                                 |
| 99             | 560      | 160      | 0        | 7.002             | 0.00v                        | 4.20              | 0.08                                 |
| 100            | 600      | 160      | 0        | 7.002             | 0.00v                        | 3.76              | 0.07                                 |
| 101            | 640      | 160      | 0        | 7.002             | 0.00v                        | 3.54              | 0.06                                 |
| 102            | 680      | 160      | 0        | 7.001             | 0.00v                        | 3.85              | 0.07                                 |
| 103            | 720      | 160      | 0        | 7.001             | 0.00v                        | 4.05              | 0.09                                 |
| 104            | 760      | 160      | 0        | 7.001             | 0.00v                        | 4.29              | 0.10                                 |
| 105            | 800      | 160      | 0        | 7.001             | 0.00v                        | 4.59              | 0.10                                 |
| 106            | 0        | 200      | 0        | 7.002             | 0.00v                        | 5.42              | 0.15                                 |
| 107            | 40       | 200      | 0        | 7.002             | 0.00v                        | 5.99              | 0.16                                 |
| 108            | 80       | 200      | 0        | 7.002             | 0.00v                        | 6.49              | 0.18                                 |
| 109            | 120      | 200      | 0        | 7.002             | 0.00v                        | 7.07              | 0.19                                 |
| 110            | 160      | 200      | 0        | 7.002             | 0.00v                        | 7.66              | 0.21                                 |
| 111            | 200      | 200      | 0        | 7.002             | 0.00v                        | 8.22              | 0.21                                 |
| 112            | 240      | 200      | 0        | 7.003             | 0.00v                        | 8.70              | 0.23                                 |
| 113            | 280      | 200      | 0        | 7.003             | 0.00v                        | 9.02              | 0.23                                 |
| 114            | 320      | 200      | 0        | 7.003             | 0.00v                        | 9.13              | 0.24                                 |
| 115            | 360      | 200      | 0        | 7.003             | 0.00v                        | 9.03              | 0.23                                 |
| 116            | 400      | 200      | 0        | 7.003             | 0.00v                        | 8.71              | 0.23                                 |
| 117            | 440      | 200      | 0        | 7.002             | 0.00v                        | 8.25              | 0.21                                 |
| 118            | 480      | 200      | 0        | 7.002             | 0.00v                        | 7.69              | 0.19                                 |
| 119            | 520      | 200      | 0        | 7.002             | 0.00v                        | 7.09              | 0.17                                 |
| 120            | 560      | 200      | 0        | 7.002             | 0.00v                        | 6.51              | 0.15                                 |
| 121            | 600      | 200      | 0        | 7.002             | 0.00v                        | 6.00              | 0.13                                 |
| 122            | 640      | 200      | 0        | 7.001             | 0.00v                        | 5.65              | 0.12                                 |
| 123            | 680      | 200      | 0        | 7.001             | 0.00v                        | 5.27              | 0.11                                 |
| 124            | 720      | 200      | 0        | 7.001             | 0.00v                        | 4.84              | 0.10                                 |
| 125            | 760      | 200      | 0        | 7.001             | 0.00v                        | 4.44              | 0.09                                 |
| 126            | 800      | 200      | 0        | 7.001             | 0.00v                        | 4.05              | 0.08                                 |
| 127            | 0        | 240      | 0        | 7.003             | 0.00v                        | 5.19              | 0.16                                 |
| 128            | 40       | 240      | 0        | 7.002             | 0.00v                        | 5.61              | 0.18                                 |
| 129            | 80       | 240      | 0        | 7.002             | 0.00v                        | 6.31              | 0.20                                 |
| 130            | 120      | 240      | 0        | 7.003             | 0.00v                        | 7.07              | 0.23                                 |
| 131            | 160      | 240      | 0        | 7.003             | 0.00v                        | 7.97              | 0.27                                 |
| 132            | 200      | 240      | 0        | 7.003             | 0.00v                        | 8.98              | 0.30                                 |
| 133            | 240      | 240      | 0        | 7.004             | 0.00v                        | 10.15             | 0.34                                 |
| 134            | 280      | 240      | 0        | 7.004             | 0.00v                        | 11.21             | 0.38                                 |
| 135            | 320      | 240      | 0        | 7.004             | 0.00v                        | 12.81             | 0.44                                 |
| 136            | 360      | 240      | 0        | 7.005             | 0.00v                        | 13.24             | 0.48                                 |
| 137            | 400      | 240      | 0        | 7.005             | 0.00v                        | 13.64             | 0.48                                 |
| 138            | 440      | 240      | 0        | 7.005             | 0.00v                        | 13.40             | 0.44                                 |
| 139            | 480      | 240      | 0        | 7.004             | 0.00v                        | 12.84             | 0.41                                 |

|     |     |     |   |        |       |        |       |
|-----|-----|-----|---|--------|-------|--------|-------|
| 140 | 520 | 240 | 0 | 7.004  | 0.00v | 11.42  | 0.35  |
| 141 | 560 | 240 | 0 | 7.003  | 0.00v | 10.13  | 0.29  |
| 142 | 600 | 240 | 0 | 7.002  | 0.00v | 9.43   | 0.24  |
| 143 | 640 | 240 | 0 | 7.002  | 0.00v | 7.89   | 0.20  |
| 144 | 680 | 240 | 0 | 7.002  | 0.00v | 7.03   | 0.17  |
| 145 | 720 | 240 | 0 | 7.001  | 0.00v | 6.31   | 0.14  |
| 146 | 760 | 240 | 0 | 7.001  | 0.00v | 5.64   | 0.12  |
| 147 | 800 | 240 | 0 | 7.001  | 0.00v | 5.10   | 0.10  |
| 148 | 0   | 280 | 0 | 7.002  | 0.00v | 5.24   | 0.17  |
| 149 | 40  | 280 | 0 | 7.002  | 0.00v | 5.97   | 0.20  |
| 150 | 80  | 280 | 0 | 7.003  | 0.00v | 6.73   | 0.24  |
| 151 | 120 | 280 | 0 | 7.002  | 0.00v | 7.65   | 0.28  |
| 152 | 160 | 280 | 0 | 7.004  | 0.00v | 8.78   | 0.33  |
| 153 | 200 | 280 | 0 | 7.004  | 0.00v | 10.12  | 0.39  |
| 154 | 240 | 280 | 0 | 7.005  | 0.00v | 11.75  | 0.47  |
| 155 | 280 | 280 | 0 | 7.005  | 0.00v | 13.61  | 0.54  |
| 156 | 320 | 280 | 0 | 7.006  | 0.00v | 15.57  | 0.60  |
| 157 | 360 | 280 | 0 | 7.007  | 0.00v | 17.11  | 0.65  |
| 158 | 400 | 280 | 0 | 7.007  | 0.00v | 17.75  | 0.68  |
| 159 | 440 | 280 | 0 | 7.007  | 0.00v | 17.17  | 0.65  |
| 160 | 480 | 280 | 0 | 7.006  | 0.00v | 15.64  | 0.56  |
| 161 | 520 | 280 | 0 | 7.005  | 0.00v | 13.72  | 0.46  |
| 162 | 560 | 280 | 0 | 7.004  | 0.00v | 11.80  | 0.36  |
| 163 | 600 | 280 | 0 | 7.004  | 0.00v | 10.13  | 0.29  |
| 164 | 640 | 280 | 0 | 7.002  | 0.00v | 8.63   | 0.23  |
| 165 | 680 | 280 | 0 | 7.002  | 0.00v | 7.87   | 0.19  |
| 166 | 720 | 280 | 0 | 7.002  | 0.00v | 6.74   | 0.16  |
| 167 | 760 | 280 | 0 | 7.002  | 0.00v | 5.94   | 0.13  |
| 168 | 800 | 280 | 0 | 7.001  | 0.00v | 5.24   | 0.12  |
| 169 | 0   | 320 | 0 | 7.002  | 0.00v | 5.55   | 0.19  |
| 170 | 40  | 320 | 0 | 7.002  | 0.00v | 6.24   | 0.22  |
| 171 | 80  | 320 | 0 | 7.003  | 0.00v | 7.12   | 0.25  |
| 172 | 120 | 320 | 0 | 7.004  | 0.00v | 8.19   | 0.33  |
| 173 | 160 | 320 | 0 | 7.004  | 0.00v | 9.57   | 0.41  |
| 174 | 200 | 320 | 0 | 7.005  | 0.00v | 11.32  | 0.52  |
| 175 | 240 | 320 | 0 | 7.005  | 0.00v | 13.43  | 0.61  |
| 176 | 280 | 320 | 0 | 7.008  | 0.00v | 16.64  | 0.79  |
| 177 | 320 | 320 | 0 | 7.009  | 0.00v | 19.69  | 0.97  |
| 178 | 360 | 320 | 0 | 7.010  | 0.00v | 23.78  | 1.38  |
| 179 | 400 | 320 | 0 | 7.011  | 0.00v | 24.50  | 1.16  |
| 180 | 440 | 320 | 0 | 7.010  | 0.00v | 23.15  | 1.07  |
| 181 | 480 | 320 | 0 | 7.008  | 0.00v | 20.03  | 0.83  |
| 182 | 520 | 320 | 0 | 7.006  | 0.00v | 16.41  | 0.65  |
| 183 | 560 | 320 | 0 | 7.004  | 0.00v | 13.68  | 0.48  |
| 184 | 600 | 320 | 0 | 7.003  | 0.00v | 11.37  | 0.34  |
| 185 | 640 | 320 | 0 | 7.002  | 0.00v | 9.59   | 0.27  |
| 186 | 680 | 320 | 0 | 7.002  | 0.00v | 8.23   | 0.21  |
| 187 | 720 | 320 | 0 | 7.002  | 0.00v | 7.12   | 0.18  |
| 188 | 760 | 320 | 0 | 7.001  | 0.00v | 6.24   | 0.15  |
| 189 | 800 | 320 | 0 | 7.001  | 0.00v | 5.55   | 0.13  |
| 190 | 0   | 360 | 0 | 7.002  | 0.00v | 5.73   | 0.15  |
| 191 | 40  | 360 | 0 | 7.003  | 0.00v | 6.49   | 0.24  |
| 192 | 80  | 360 | 0 | 7.003  | 0.00v | 7.44   | 0.30  |
| 193 | 120 | 360 | 0 | 7.004  | 0.00v | 8.64   | 0.40  |
| 194 | 160 | 360 | 0 | 7.005  | 0.00v | 10.29  | 0.48  |
| 195 | 200 | 360 | 0 | 7.006  | 0.00v | 12.47  | 0.63  |
| 196 | 240 | 360 | 0 | 7.008  | 0.00v | 18.47  | 0.87  |
| 197 | 280 | 360 | 0 | 7.011  | 0.00v | 23.82  | 1.18  |
| 198 | 320 | 360 | 0 | 7.014  | 0.00v | 25.84  | 1.65  |
| 199 | 360 | 360 | 0 | 7.010  | 0.00v | 33.08  | 2.16  |
| 200 | 400 | 360 | 0 | 7.020  | 0.00v | 37.13  | 2.60  |
| 201 | 440 | 360 | 0 | 7.017  | 0.00v | 33.45  | 2.37  |
| 202 | 480 | 360 | 0 | 7.011  | 0.00v | 26.15  | 1.28  |
| 203 | 520 | 360 | 0 | 7.007  | 0.00v | 19.56  | 0.82  |
| 204 | 560 | 360 | 0 | 7.005  | 0.00v | 15.64  | 0.55  |
| 205 | 600 | 360 | 0 | 7.004  | 0.00v | 12.49  | 0.41  |
| 206 | 640 | 360 | 0 | 7.003  | 0.00v | 10.29  | 0.31  |
| 207 | 680 | 360 | 0 | 7.002  | 0.00v | 8.67   | 0.24  |
| 208 | 720 | 360 | 0 | 7.002  | 0.00v | 7.43   | 0.20  |
| 209 | 760 | 360 | 0 | 7.002  | 0.00v | 6.47   | 0.17  |
| 210 | 800 | 360 | 0 | 7.001  | 0.00v | 5.72   | 0.14  |
| 211 | 0   | 400 | 0 | 7.002  | 0.00v | 5.83   | 0.21  |
| 212 | 40  | 400 | 0 | 7.003  | 0.00v | 6.63   | 0.26  |
| 213 | 80  | 400 | 0 | 7.003  | 0.00v | 7.64   | 0.32  |
| 214 | 120 | 400 | 0 | 7.004  | 0.00v | 8.93   | 0.41  |
| 215 | 160 | 400 | 0 | 7.005  | 0.00v | 10.75  | 0.53  |
| 216 | 200 | 400 | 0 | 7.007  | 0.00v | 13.24  | 0.67  |
| 217 | 240 | 400 | 0 | 7.010  | 0.00v | 17.01  | 1.09  |
| 218 | 280 | 400 | 0 | 7.015  | 0.00v | 22.64  | 1.73  |
| 219 | 320 | 400 | 0 | 7.028  | 0.00v | 32.86  | 3.03  |
| 220 | 360 | 400 | 0 | 7.041  | 0.00v | 49.79  | 5.48  |
| 221 | 400 | 400 | 0 | 7.051  | 0.00v | 43.42* | 7.15  |
| 222 | 440 | 400 | 0 | 7.032  | 0.00v | 50.57  | 4.17  |
| 223 | 480 | 400 | 0 | 7.016  | 0.00v | 33.15  | 1.92  |
| 224 | 520 | 400 | 0 | 7.008  | 0.00v | 22.86  | 1.07  |
| 225 | 560 | 400 | 0 | 7.006  | 0.00v | 17.62  | 0.70  |
| 226 | 600 | 400 | 0 | 7.004  | 0.00v | 13.24  | 0.49  |
| 227 | 640 | 400 | 0 | 7.003  | 0.00v | 10.75  | 0.36  |
| 228 | 680 | 400 | 0 | 7.002  | 0.00v | 8.84   | 0.27  |
| 229 | 720 | 400 | 0 | 7.002  | 0.00v | 7.63   | 0.22  |
| 230 | 760 | 400 | 0 | 7.002  | 0.00v | 6.62   | 0.19  |
| 231 | 800 | 400 | 0 | 7.001  | 0.00v | 5.81   | 0.15  |
| 232 | 0   | 440 | 0 | 7.002  | 0.00v | 5.87   | 0.22  |
| 233 | 40  | 440 | 0 | 7.003  | 0.00v | 6.69   | 0.27  |
| 234 | 80  | 440 | 0 | 7.004  | 0.00v | 7.73   | 0.33  |
| 235 | 120 | 440 | 0 | 7.004  | 0.00v | 9.10   | 0.42  |
| 236 | 160 | 440 | 0 | 7.005  | 0.00v | 10.95  | 0.55  |
| 237 | 200 | 440 | 0 | 7.008  | 0.00v | 17.61  | 0.77  |
| 238 | 240 | 440 | 0 | 7.011  | 0.00v | 23.59  | 1.18  |
| 239 | 280 | 440 | 0 | 7.017  | 0.00v | 24.13  | 1.06  |
| 240 | 320 | 440 | 0 | 7.033  | 0.00v | 36.19  | 3.85  |
| 241 | 360 | 440 | 0 | 7.084* | 0.00v | 62.61  | 10.45 |
| 242 | 400 | 440 | 0 | 7.008  | 0.00v | 1.94v  | 0.73  |
| 243 | 440 | 440 | 0 | 7.007  | 0.00v | 7.16   | 0.29  |
| 244 | 480 | 440 | 0 | 7.022  | 0.00v | 24.31  | 2.73  |
| 245 | 520 | 440 | 0 | 7.011  | 0.00v | 24.11  | 1.34  |
| 246 | 560 | 440 | 0 | 7.007  | 0.00v | 17.53  | 0.81  |
| 247 | 600 | 440 | 0 | 7.005  | 0.00v | 13.85  | 0.64  |
| 248 | 640 | 440 | 0 | 7.003  | 0.00v | 10.91  | 0.39  |
| 249 | 680 | 440 | 0 | 7.003  | 0.00v | 9.06   | 0.30  |
| 250 | 720 | 440 | 0 | 7.002  | 0.00v | 7.71   | 0.23  |
| 251 | 760 | 440 | 0 | 7.002  | 0.00v | 6.64   | 0.19  |
| 252 | 800 | 440 | 0 | 7.001  | 0.00v | 5.64   | 0.15  |
| 253 | 0   | 480 | 0 | 7.002  | 0.00v | 5.83   | 0.21  |
| 254 | 40  | 480 | 0 | 7.003  | 0.00v | 6.64   | 0.26  |
| 255 | 80  | 480 | 0 | 7.003  | 0.00v | 7.65   | 0.31  |
| 256 | 120 | 480 | 0 | 7.004  | 0.00v | 8.69   | 0.40  |
| 257 | 160 | 480 | 0 | 7.005  | 0.00v | 10.77  | 0.53  |
| 258 | 200 | 480 | 0 | 7.007  | 0.00v | 13.20  | 0.71  |
| 259 | 240 | 480 | 0 | 7.010  | 0.00v | 17.04  | 1.03  |
| 260 | 280 | 480 | 0 | 7.015  | 0.00v | 22.60  | 1.61  |
| 261 | 320 | 480 | 0 | 7.026  | 0.00v | 33.02  | 2.99  |
| 262 | 360 | 480 | 0 | 7.034  | 0.00v | 51.33  | 3.98  |
| 263 | 400 | 480 | 0 | 7.080  | 0.00v | 59.92  | 10.98 |
| 264 | 440 | 480 | 0 | 7.052  | 0.00v | 47.51  | 6.50  |
| 265 | 480 | 480 | 0 | 7.023  | 0.00v | 32.15  | 2.78  |
| 266 | 520 | 480 | 0 | 7.013  | 0.00v | 22.35  | 1.40  |
| 267 | 560 | 480 | 0 | 7.008  | 0.00v | 16.84  | 0.87  |
| 268 | 600 | 480 | 0 | 7.005  | 0.00v | 13.18  | 0.52  |
| 269 | 640 | 480 | 0 | 7.004  | 0.00v | 10.76  | 0.41  |
| 270 | 680 | 480 | 0 | 7.003  | 0.00v | 8.94   | 0.32  |
| 271 | 720 | 480 | 0 | 7.002  | 0.00v | 7.61   | 0.24  |
| 272 | 760 | 480 | 0 | 7.002  | 0.00v | 6.61   | 0.19  |
| 273 | 800 | 480 | 0 | 7.001  | 0.00v | 5.63   | 0.15  |
| 274 | 0   | 520 | 0 | 7.002  | 0.00v | 5.72   | 0.19  |
| 275 | 40  | 520 | 0 | 7.003  | 0.00v | 6.45   | 0.24  |
| 276 | 80  | 520 | 0 | 7.003  | 0.00v | 7.49   | 0.28  |
| 277 | 120 | 520 | 0 | 7.004  | 0.00v | 8.68   | 0.35  |
| 278 | 160 | 520 | 0 | 7.005  | 0.00v | 10.26  | 0.46  |
| 279 | 200 | 520 | 0 | 7.006  | 0.00v | 12.50  | 0.60  |
| 280 | 240 | 520 | 0 | 7.008  | 0.00v | 18.53  | 0.82  |
| 281 | 280 | 520 | 0 | 7.011  | 0.00v | 24.94  | 1.20  |
| 282 | 320 | 520 | 0 | 7.016  | 0.00v | 26.10  | 1.06  |
| 283 | 360 | 520 | 0 | 7.025  | 0.00v | 32.62  | 3.06  |
| 284 | 400 | 520 | 0 | 7.032  | 0.00v | 35.32  | 4.07  |
| 285 | 440 | 520 | 0 | 7.040  | 0.00v | 51.60  | 8.01  |
| 286 | 480 | 520 | 0 | 7.018  | 0.00v | 25.15  | 2.11  |
| 287 | 520 | 520 | 0 | 7.011  | 0.00v | 19.46  | 1.26  |
| 288 | 560 | 520 | 0 | 7.008  | 0.00v | 15.24  | 0.84  |
| 289 | 600 | 520 | 0 | 7.005  | 0.00v | 12.34  | 0.56  |
| 290 | 640 | 520 | 0 | 7.004  | 0.00v | 10.21  | 0.40  |
| 291 | 680 | 520 | 0 | 7.002  | 0.00v | 8.41   | 0.31  |
| 292 | 720 | 520 | 0 | 7.002  | 0.00v | 7.45   | 0.24  |
| 293 | 760 | 520 | 0 | 7.002  | 0.00v | 6.44   | 0.19  |



