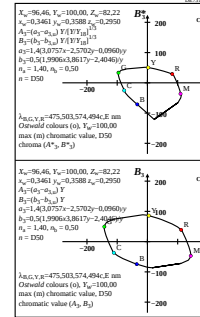


CIIE2 tristimulus values, chromatic values, and putities (p<sub>1</sub>, p<sub>2</sub>, p<sub>3</sub>, p<sub>4</sub>, p<sub>5</sub>, p<sub>6</sub>)  
Normalized D50 (CIIE2) tristimulus values (Y=100), derived by hue angle.

| no. | C    | M     | Y    | R    | B    | OL    | no. | C    | M    | Y    | R   | B   | OL  |
|-----|------|-------|------|------|------|-------|-----|------|------|------|-----|-----|-----|
| 30  | 42.1 | 12.19 | 69.0 | 0.30 | 0.31 | 0.038 | 221 | 44.1 | 11.0 | 10.0 | 0.0 | 0.0 | 0.0 |
| 31  | 40.3 | 12.25 | 63.4 | 0.31 | 0.30 | 0.038 | 222 | 40.1 | 9.1  | 9.1  | 0.0 | 0.0 | 0.0 |
| 32  | 38.5 | 12.31 | 57.8 | 0.32 | 0.31 | 0.038 | 223 | 38.5 | 8.0  | 8.0  | 0.0 | 0.0 | 0.0 |
| 33  | 36.7 | 12.38 | 52.0 | 0.33 | 0.32 | 0.038 | 224 | 36.7 | 6.9  | 6.9  | 0.0 | 0.0 | 0.0 |
| 34  | 34.9 | 12.44 | 46.2 | 0.34 | 0.33 | 0.038 | 225 | 34.9 | 5.8  | 5.8  | 0.0 | 0.0 | 0.0 |
| 35  | 33.1 | 12.51 | 40.4 | 0.35 | 0.34 | 0.038 | 226 | 33.1 | 4.7  | 4.7  | 0.0 | 0.0 | 0.0 |
| 36  | 31.3 | 12.57 | 34.6 | 0.36 | 0.35 | 0.038 | 227 | 31.3 | 3.6  | 3.6  | 0.0 | 0.0 | 0.0 |
| 37  | 29.5 | 12.64 | 28.8 | 0.37 | 0.36 | 0.038 | 228 | 29.5 | 2.5  | 2.5  | 0.0 | 0.0 | 0.0 |
| 38  | 27.7 | 12.70 | 23.0 | 0.38 | 0.37 | 0.038 | 229 | 27.7 | 1.4  | 1.4  | 0.0 | 0.0 | 0.0 |
| 39  | 25.9 | 12.77 | 17.2 | 0.39 | 0.38 | 0.038 | 230 | 25.9 | 0.3  | 0.3  | 0.0 | 0.0 | 0.0 |
| 40  | 24.1 | 12.83 | 11.4 | 0.40 | 0.39 | 0.038 | 231 | 24.1 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 41  | 22.3 | 12.90 | 5.6  | 0.41 | 0.40 | 0.038 | 232 | 22.3 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 42  | 20.5 | 12.96 | 0.0  | 0.42 | 0.41 | 0.038 | 233 | 20.5 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 43  | 18.7 | 13.03 | 0.0  | 0.43 | 0.42 | 0.038 | 234 | 18.7 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 44  | 16.9 | 13.09 | 0.0  | 0.44 | 0.43 | 0.038 | 235 | 16.9 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 45  | 15.1 | 13.16 | 0.0  | 0.45 | 0.44 | 0.038 | 236 | 15.1 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 46  | 13.3 | 13.22 | 0.0  | 0.46 | 0.45 | 0.038 | 237 | 13.3 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 47  | 11.5 | 13.29 | 0.0  | 0.47 | 0.46 | 0.038 | 238 | 11.5 | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 48  | 9.7  | 13.35 | 0.0  | 0.48 | 0.47 | 0.038 | 239 | 9.7  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 49  | 7.9  | 13.42 | 0.0  | 0.49 | 0.48 | 0.038 | 240 | 7.9  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 50  | 6.1  | 13.48 | 0.0  | 0.50 | 0.49 | 0.038 | 241 | 6.1  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 51  | 4.3  | 13.55 | 0.0  | 0.51 | 0.50 | 0.038 | 242 | 4.3  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 52  | 2.5  | 13.61 | 0.0  | 0.52 | 0.51 | 0.038 | 243 | 2.5  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 53  | 0.7  | 13.68 | 0.0  | 0.53 | 0.52 | 0.038 | 244 | 0.7  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 54  | 0.0  | 13.74 | 0.0  | 0.54 | 0.53 | 0.038 | 245 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 55  | 0.0  | 13.81 | 0.0  | 0.55 | 0.54 | 0.038 | 246 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 56  | 0.0  | 13.87 | 0.0  | 0.56 | 0.55 | 0.038 | 247 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 57  | 0.0  | 13.94 | 0.0  | 0.57 | 0.56 | 0.038 | 248 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 58  | 0.0  | 14.00 | 0.0  | 0.58 | 0.57 | 0.038 | 249 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 59  | 0.0  | 14.07 | 0.0  | 0.59 | 0.58 | 0.038 | 250 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 60  | 0.0  | 14.13 | 0.0  | 0.60 | 0.59 | 0.038 | 251 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 61  | 0.0  | 14.20 | 0.0  | 0.61 | 0.60 | 0.038 | 252 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 62  | 0.0  | 14.26 | 0.0  | 0.62 | 0.61 | 0.038 | 253 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 63  | 0.0  | 14.33 | 0.0  | 0.63 | 0.62 | 0.038 | 254 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 64  | 0.0  | 14.39 | 0.0  | 0.64 | 0.63 | 0.038 | 255 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 65  | 0.0  | 14.46 | 0.0  | 0.65 | 0.64 | 0.038 | 256 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 66  | 0.0  | 14.52 | 0.0  | 0.66 | 0.65 | 0.038 | 257 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 67  | 0.0  | 14.59 | 0.0  | 0.67 | 0.66 | 0.038 | 258 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 68  | 0.0  | 14.65 | 0.0  | 0.68 | 0.67 | 0.038 | 259 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 69  | 0.0  | 14.72 | 0.0  | 0.69 | 0.68 | 0.038 | 260 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 70  | 0.0  | 14.78 | 0.0  | 0.70 | 0.69 | 0.038 | 261 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 71  | 0.0  | 14.85 | 0.0  | 0.71 | 0.70 | 0.038 | 262 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 72  | 0.0  | 14.91 | 0.0  | 0.72 | 0.71 | 0.038 | 263 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 73  | 0.0  | 14.98 | 0.0  | 0.73 | 0.72 | 0.038 | 264 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 74  | 0.0  | 15.04 | 0.0  | 0.74 | 0.73 | 0.038 | 265 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 75  | 0.0  | 15.11 | 0.0  | 0.75 | 0.74 | 0.038 | 266 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 76  | 0.0  | 15.17 | 0.0  | 0.76 | 0.75 | 0.038 | 267 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 77  | 0.0  | 15.24 | 0.0  | 0.77 | 0.76 | 0.038 | 268 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 78  | 0.0  | 15.30 | 0.0  | 0.78 | 0.77 | 0.038 | 269 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 79  | 0.0  | 15.37 | 0.0  | 0.79 | 0.78 | 0.038 | 270 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 80  | 0.0  | 15.43 | 0.0  | 0.80 | 0.79 | 0.038 | 271 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 81  | 0.0  | 15.50 | 0.0  | 0.81 | 0.80 | 0.038 | 272 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 82  | 0.0  | 15.56 | 0.0  | 0.82 | 0.81 | 0.038 | 273 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 83  | 0.0  | 15.63 | 0.0  | 0.83 | 0.82 | 0.038 | 274 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 84  | 0.0  | 15.69 | 0.0  | 0.84 | 0.83 | 0.038 | 275 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 85  | 0.0  | 15.76 | 0.0  | 0.85 | 0.84 | 0.038 | 276 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 86  | 0.0  | 15.82 | 0.0  | 0.86 | 0.85 | 0.038 | 277 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 87  | 0.0  | 15.89 | 0.0  | 0.87 | 0.86 | 0.038 | 278 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 88  | 0.0  | 15.95 | 0.0  | 0.88 | 0.87 | 0.038 | 279 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 89  | 0.0  | 16.02 | 0.0  | 0.89 | 0.88 | 0.038 | 280 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 90  | 0.0  | 16.08 | 0.0  | 0.90 | 0.89 | 0.038 | 281 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 91  | 0.0  | 16.15 | 0.0  | 0.91 | 0.90 | 0.038 | 282 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 92  | 0.0  | 16.21 | 0.0  | 0.92 | 0.91 | 0.038 | 283 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 93  | 0.0  | 16.28 | 0.0  | 0.93 | 0.92 | 0.038 | 284 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 94  | 0.0  | 16.34 | 0.0  | 0.94 | 0.93 | 0.038 | 285 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 95  | 0.0  | 16.41 | 0.0  | 0.95 | 0.94 | 0.038 | 286 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 96  | 0.0  | 16.47 | 0.0  | 0.96 | 0.95 | 0.038 | 287 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 97  | 0.0  | 16.54 | 0.0  | 0.97 | 0.96 | 0.038 | 288 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 98  | 0.0  | 16.60 | 0.0  | 0.98 | 0.97 | 0.038 | 289 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 99  | 0.0  | 16.67 | 0.0  | 0.99 | 0.98 | 0.038 | 290 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 100 | 0.0  | 16.73 | 0.0  | 1.00 | 0.99 | 0.038 | 291 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 101 | 0.0  | 16.80 | 0.0  | 1.01 | 1.00 | 0.038 | 292 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 102 | 0.0  | 16.86 | 0.0  | 1.02 | 1.01 | 0.038 | 293 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 103 | 0.0  | 16.93 | 0.0  | 1.03 | 1.02 | 0.038 | 294 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 104 | 0.0  | 16.99 | 0.0  | 1.04 | 1.03 | 0.038 | 295 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 105 | 0.0  | 17.06 | 0.0  | 1.05 | 1.04 | 0.038 | 296 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 106 | 0.0  | 17.12 | 0.0  | 1.06 | 1.05 | 0.038 | 297 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 107 | 0.0  | 17.19 | 0.0  | 1.07 | 1.06 | 0.038 | 298 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 108 | 0.0  | 17.25 | 0.0  | 1.08 | 1.07 | 0.038 | 299 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 109 | 0.0  | 17.32 | 0.0  | 1.09 | 1.08 | 0.038 | 300 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 110 | 0.0  | 17.38 | 0.0  | 1.10 | 1.09 | 0.038 | 301 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 111 | 0.0  | 17.45 | 0.0  | 1.11 | 1.10 | 0.038 | 302 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 112 | 0.0  | 17.51 | 0.0  | 1.12 | 1.11 | 0.038 | 303 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 113 | 0.0  | 17.58 | 0.0  | 1.13 | 1.12 | 0.038 | 304 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 114 | 0.0  | 17.64 | 0.0  | 1.14 | 1.13 | 0.038 | 305 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 115 | 0.0  | 17.71 | 0.0  | 1.15 | 1.14 | 0.038 | 306 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 116 | 0.0  | 17.77 | 0.0  | 1.16 | 1.15 | 0.038 | 307 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 117 | 0.0  | 17.84 | 0.0  | 1.17 | 1.16 | 0.038 | 308 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 118 | 0.0  | 17.90 | 0.0  | 1.18 | 1.17 | 0.038 | 309 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 119 | 0.0  | 17.97 | 0.0  | 1.19 | 1.18 | 0.038 | 310 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 120 | 0.0  | 18.03 | 0.0  | 1.20 | 1.19 | 0.038 | 311 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 121 | 0.0  | 18.10 | 0.0  | 1.21 | 1.20 | 0.038 | 312 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 122 | 0.0  | 18.16 | 0.0  | 1.22 | 1.21 | 0.038 | 313 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 123 | 0.0  | 18.23 | 0.0  | 1.23 | 1.22 | 0.038 | 314 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 124 | 0.0  | 18.29 | 0.0  | 1.24 | 1.23 | 0.038 | 315 | 0.0  | 0.0  | 0.0  | 0.0 | 0.0 | 0.0 |
| 125 |      |       |      |      |      |       |     |      |      |      |     |     |     |



For more technical information: <http://farbe.li.tu-berlin.de/DE/3/DE/73.HTM>  
 or <http://130.149.60.45/~farbmetrik>



DE731-7R schand=3 xcolod=20CIEF02

CHET10 tristimulus values, chromatic values, and putties (n=1,4, n<sub>0</sub>=4,5)  
Normalized Overall (O) tristimulus values (E<sub>0</sub>=100), derived by hue angle

| no. | O     | chromatic values and chromaticities | no-chromatic values  |
|-----|-------|-------------------------------------|----------------------|
| 38  | 58.3  | 25.76 0.49 0.7748                   | 0.1313 0.028 0.782   |
| 40  | 455   | 13.14 0.61 0.7453                   | 0.139 0.029 0.782    |
| 42  | 480   | 9.49 0.69 0.7748                    | 0.1313 0.028 0.782   |
| 44  | 502   | 13.32 0.70 0.7821                   | 0.14 0.04 0.84 0.279 |
| 46  | 468.0 | 13.45 0.69 0.7748                   | 0.1313 0.028 0.782   |
| 48  | 488   | 18.67 0.87 0.87                     | 0.121 0.031 0.773    |
| 50  | 471   | 16.71 0.81 0.81                     | 0.121 0.029 0.784    |
| 52  | 472   | 25.76 0.86 0.89                     | 0.124 0.028 0.844    |
| 54  | 472   | 37.96 0.86 0.89                     | 0.134 0.027 0.855    |
| 56  | 477   | 22.39 0.70 0.81                     | 0.159 0.036 0.845    |
| 58  | 479   | 36.98 0.68 0.82                     | 0.159 0.036 0.845    |
| 60  | 479   | 50.58 0.68 0.82                     | 0.159 0.036 0.845    |
| 62  | 479   | 64.98 0.68 0.82                     | 0.159 0.036 0.845    |
| 64  | 484   | 25.76 0.72 0.932                    | 0.180 0.040 0.883    |
| 66  | 484   | 37.96 0.72 0.932                    | 0.180 0.040 0.883    |
| 68  | 484   | 50.58 0.72 0.932                    | 0.180 0.040 0.883    |
| 70  | 484   | 64.98 0.72 0.932                    | 0.180 0.040 0.883    |
| 72  | 484   | 79.17 0.72 0.932                    | 0.180 0.040 0.883    |
| 74  | 484   | 93.67 0.72 0.932                    | 0.180 0.040 0.883    |
| 76  | 484   | 108.16 0.72 0.932                   | 0.180 0.040 0.883    |
| 78  | 484   | 122.65 0.72 0.932                   | 0.180 0.040 0.883    |
| 80  | 484   | 137.14 0.72 0.932                   | 0.180 0.040 0.883    |
| 82  | 484   | 151.63 0.72 0.932                   | 0.180 0.040 0.883    |
| 84  | 484   | 166.12 0.72 0.932                   | 0.180 0.040 0.883    |
| 86  | 484   | 180.61 0.72 0.932                   | 0.180 0.040 0.883    |
| 88  | 484   | 195.10 0.72 0.932                   | 0.180 0.040 0.883    |
| 90  | 484   | 209.59 0.72 0.932                   | 0.180 0.040 0.883    |
| 92  | 484   | 224.08 0.72 0.932                   | 0.180 0.040 0.883    |
| 94  | 484   | 238.57 0.72 0.932                   | 0.180 0.040 0.883    |
| 96  | 484   | 253.06 0.72 0.932                   | 0.180 0.040 0.883    |
| 98  | 484   | 267.55 0.72 0.932                   | 0.180 0.040 0.883    |
| 100 | 484   | 282.04 0.72 0.932                   | 0.180 0.040 0.883    |
| 102 | 484   | 296.53 0.72 0.932                   | 0.180 0.040 0.883    |
| 104 | 484   | 311.02 0.72 0.932                   | 0.180 0.040 0.883    |
| 106 | 484   | 325.51 0.72 0.932                   | 0.180 0.040 0.883    |
| 108 | 484   | 340.00 0.72 0.932                   | 0.180 0.040 0.883    |
| 110 | 484   | 354.49 0.72 0.932                   | 0.180 0.040 0.883    |
| 112 | 484   | 368.98 0.72 0.932                   | 0.180 0.040 0.883    |
| 114 | 484   | 383.47 0.72 0.932                   | 0.180 0.040 0.883    |
| 116 | 484   | 397.96 0.72 0.932                   | 0.180 0.040 0.883    |
| 118 | 484   | 412.45 0.72 0.932                   | 0.180 0.040 0.883    |
| 120 | 484   | 426.94 0.72 0.932                   | 0.180 0.040 0.883    |
| 122 | 484   | 441.43 0.72 0.932                   | 0.180 0.040 0.883    |
| 124 | 484   | 455.92 0.72 0.932                   | 0.180 0.040 0.883    |
| 126 | 484   | 470.41 0.72 0.932                   | 0.180 0.040 0.883    |
| 128 | 484   | 484.90 0.72 0.932                   | 0.180 0.040 0.883    |
| 130 | 484   | 499.39 0.72 0.932                   | 0.180 0.040 0.883    |
| 132 | 484   | 513.88 0.72 0.932                   | 0.180 0.040 0.883    |
| 134 | 484   | 528.37 0.72 0.932                   | 0.180 0.040 0.883    |
| 136 | 484   | 542.86 0.72 0.932                   | 0.180 0.040 0.883    |
| 138 | 484   | 557.35 0.72 0.932                   | 0.180 0.040 0.883    |
| 140 | 484   | 571.84 0.72 0.932                   | 0.180 0.040 0.883    |
| 142 | 484   | 586.33 0.72 0.932                   | 0.180 0.040 0.883    |
| 144 | 484   | 600.82 0.72 0.932                   | 0.180 0.040 0.883    |
| 146 | 484   | 615.31 0.72 0.932                   | 0.180 0.040 0.883    |
| 148 | 484   | 629.80 0.72 0.932                   | 0.180 0.040 0.883    |
| 150 | 484   | 644.29 0.72 0.932                   | 0.180 0.040 0.883    |
| 152 | 484   | 658.78 0.72 0.932                   | 0.180 0.040 0.883    |
| 154 | 484   | 673.27 0.72 0.932                   | 0.180 0.040 0.883    |
| 156 | 484   | 687.76 0.72 0.932                   | 0.180 0.040 0.883    |
| 158 | 484   | 702.25 0.72 0.932                   | 0.180 0.040 0.883    |
| 160 | 484   | 716.74 0.72 0.932                   | 0.180 0.040 0.883    |
| 162 | 484   | 731.23 0.72 0.932                   | 0.180 0.040 0.883    |
| 164 | 484   | 745.72 0.72 0.932                   | 0.180 0.040 0.883    |
| 166 | 484   | 760.21 0.72 0.932                   | 0.180 0.040 0.883    |
| 168 | 484   | 774.70 0.72 0.932                   | 0.180 0.040 0.883    |
| 170 | 484   | 789.19 0.72 0.932                   | 0.180 0.040 0.883    |
| 172 | 484   | 803.68 0.72 0.932                   | 0.180 0.040 0.883    |
| 174 | 484   | 818.17 0.72 0.932                   | 0.180 0.040 0.883    |
| 176 | 484   | 832.66 0.72 0.932                   | 0.180 0.040 0.883    |
| 178 | 484   | 847.15 0.72 0.932                   | 0.180 0.040 0.883    |
| 180 | 484   | 861.64 0.72 0.932                   | 0.180 0.040 0.883    |
| 182 | 484   | 876.13 0.72 0.932                   | 0.180 0.040 0.883    |
| 184 | 484   | 890.62 0.72 0.932                   | 0.180 0.040 0.883    |
| 186 | 484   | 905.11 0.72 0.932                   | 0.180 0.040 0.883    |
| 188 | 484   | 919.60 0.72 0.932                   | 0.180 0.040 0.883    |
| 190 | 484   | 934.09 0.72 0.932                   | 0.180 0.040 0.883    |
| 192 | 484   | 948.58 0.72 0.932                   | 0.180 0.040 0.883    |
| 194 | 484   | 963.07 0.72 0.932                   | 0.180 0.040 0.883    |
| 196 | 484   | 977.56 0.72 0.932                   | 0.180 0.040 0.883    |
| 198 | 484   | 992.05 0.72 0.932                   | 0.180 0.040 0.883    |
| 200 | 484   | 1006.54 0.72 0.932                  | 0.180 0.040 0.883    |

CHET10 tristimulus values, chromatic values, and putties (n=1,4, n<sub>0</sub>=4,5)  
Normalized Overall (O) tristimulus values (E<sub>0</sub>=100), derived by hue angle

| no. | O     | chromatic values and chromaticities | no-chromatic values  |
|-----|-------|-------------------------------------|----------------------|
| 38  | 58.3  | 25.76 0.49 0.7748                   | 0.1313 0.028 0.782   |
| 40  | 455   | 13.14 0.61 0.7453                   | 0.139 0.029 0.782    |
| 42  | 480   | 9.49 0.69 0.7748                    | 0.1313 0.028 0.782   |
| 44  | 502   | 13.32 0.70 0.7821                   | 0.14 0.04 0.84 0.279 |
| 46  | 468.0 | 13.45 0.69 0.7748                   | 0.1313 0.028 0.782   |
| 48  | 488   | 18.67 0.87 0.87                     | 0.121 0.031 0.773    |
| 50  | 471   | 16.71 0.81 0.81                     | 0.121 0.029 0.784    |
| 52  | 472   | 25.76 0.86 0.89                     | 0.124 0.028 0.844    |
| 54  | 472   | 37.96 0.86 0.89                     | 0.134 0.027 0.855    |
| 56  | 477   | 22.39 0.70 0.81                     | 0.159 0.036 0.845    |
| 58  | 479   | 36.98 0.68 0.82                     | 0.159 0.036 0.845    |
| 60  | 479   | 50.58 0.68 0.82                     | 0.159 0.036 0.845    |
| 62  | 479   | 64.98 0.68 0.82                     | 0.159 0.036 0.845    |
| 64  | 484   | 25.76 0.72 0.932                    | 0.180 0.040 0.883    |
| 66  | 484   | 37.96 0.72 0.932                    | 0.180 0.040 0.883    |
| 68  | 484   | 50.58 0.72 0.932                    | 0.180 0.040 0.883    |
| 70  | 484   | 64.98 0.72 0.932                    | 0.180 0.040 0.883    |
| 72  | 484   | 79.17 0.72 0.932                    | 0.180 0.040 0.883    |
| 74  | 484   | 93.67 0.72 0.932                    | 0.180 0.040 0.883    |
| 76  | 484   | 108.16 0.72 0.932                   | 0.180 0.040 0.883    |
| 78  | 484   | 122.65 0.72 0.932                   | 0.180 0.040 0.883    |
| 80  | 484   | 137.14 0.72 0.932                   | 0.180 0.040 0.883    |
| 82  | 484   | 151.63 0.72 0.932                   | 0.180 0.040 0.883    |
| 84  | 484   | 166.12 0.72 0.932                   | 0.180 0.040 0.883    |
| 86  | 484   | 180.61 0.72 0.932                   | 0.180 0.040 0.883    |
| 88  | 484   | 195.10 0.72 0.932                   | 0.180 0.040 0.883    |
| 90  | 484   | 209.59 0.72 0.932                   | 0.180 0.040 0.883    |
| 92  | 484   | 224.08 0.72 0.932                   | 0.180 0.040 0.883    |
| 94  | 484   | 238.57 0.72 0.932                   | 0.180 0.040 0.883    |
| 96  | 484   | 253.06 0.72 0.932                   | 0.180 0.040 0.883    |
| 98  | 484   | 267.55 0.72 0.932                   | 0.180 0.040 0.883    |
| 100 | 484   | 282.04 0.72 0.932                   | 0.180 0.040 0.883    |
| 102 | 484   | 296.53 0.72 0.932                   | 0.180 0.040 0.883    |
| 104 | 484   | 311.02 0.72 0.932                   | 0.180 0.040 0.883    |
| 106 | 484   | 325.51 0.72 0.932                   | 0.180 0.040 0.883    |
| 108 | 484   | 340.00 0.72 0.932                   | 0.180 0.040 0.883    |
| 110 | 484   | 354.49 0.72 0.932                   | 0.180 0.040 0.883    |
| 112 | 484   | 368.98 0.72 0.932                   | 0.180 0.040 0.883    |
| 114 | 484   | 383.47 0.72 0.932                   | 0.180 0.040 0.883    |
| 116 | 484   | 397.96 0.72 0.932                   | 0.180 0.040 0.883    |
| 118 | 484   | 412.45 0.72 0.932                   | 0.180 0.040 0.883    |
| 120 | 484   | 426.94 0.72 0.932                   | 0.180 0.040 0.883    |
| 122 | 484   | 441.43 0.72 0.932                   | 0.180 0.040 0.883    |
| 124 | 484   | 455.92 0.72 0.932                   | 0.180 0.040 0.883    |
| 126 | 484   | 470.41 0.72 0.932                   | 0.180 0.040 0.883    |
| 128 | 484   | 484.90 0.72 0.932                   | 0.180 0.040 0.883    |
| 130 | 484   | 499.39 0.72 0.932                   | 0.180 0.040 0.883    |
| 132 | 484   | 513.88 0.72 0.932                   | 0.180 0.040 0.883    |
| 134 | 484   | 528.37 0.72 0.932                   | 0.180 0.040 0.883    |
| 136 | 484   | 542.86 0.72 0.932                   | 0.180 0.040 0.883    |
| 138 | 484   | 557.35 0.72 0.932                   | 0.180 0.040 0.883    |
| 140 | 484   | 571.84 0.72 0.932                   | 0.180 0.040 0.883    |
| 142 | 484   | 586.33 0.72 0.932                   | 0.180 0.040 0.883    |
| 144 | 484   | 600.82 0.72 0.932                   | 0.180 0.040 0.883    |
| 146 | 484   | 615.31 0.72 0.932                   | 0.180 0.040 0.883    |
| 148 | 484   | 629.80 0.72 0.932                   | 0.180 0.040 0.883    |
| 150 | 484   | 644.29 0.72 0.932                   | 0.180 0.040 0.883    |
| 152 | 484   | 658.78 0.72 0.932                   | 0.180 0.040 0.883    |
| 154 | 484   | 673.27 0.72 0.932                   | 0.180 0.040 0.883    |
| 156 | 484   | 687.76 0.72 0.932                   | 0.180 0.040 0.883    |
| 158 | 484   | 702.25 0.72 0.932                   | 0.180 0.040 0.883    |
| 160 | 484   | 716.74 0.72 0.932                   | 0.180 0.040 0.883    |
| 162 | 484   | 731.23 0.72 0.932                   | 0.180 0.040 0.883    |
| 164 | 484   | 745.72 0.72 0.932                   | 0.180 0.040 0.883    |
| 166 | 484   | 760.21 0.72 0.932                   | 0.180 0.040 0.883    |
| 168 | 484   | 774.70 0.72 0.932                   | 0.180 0.040 0.883    |
| 170 | 484   | 789.19 0.72 0.932                   | 0.180 0.040 0.883    |
| 172 | 484   | 803.68 0.72 0.932                   | 0.180 0.040 0.883    |
| 174 | 484   | 818.17 0.72 0.932                   | 0.180 0.040 0.883    |
| 176 | 484   | 832.66 0.72 0.932                   | 0.180 0.040 0.883    |
| 178 | 484   | 847.15 0.72 0.932                   | 0.180 0.040 0.883    |
| 180 | 484   | 861.64 0.72 0.932                   | 0.180 0.040 0.883    |
| 182 | 484   | 876.13 0.72 0.932                   | 0.180 0.040 0.883    |
| 184 | 484   | 890.62 0.72 0.932                   | 0.180 0.040 0.883    |
| 186 | 484   | 905.11 0.72 0.932                   | 0.180 0.040 0.883    |
| 188 | 484   | 919.60 0.72 0.932                   | 0.180 0.040 0.883    |
| 190 | 484   | 934.09 0.72 0.932                   | 0.180 0.040 0.883    |
| 192 | 484   | 948.58 0.72 0.932                   | 0.180 0.040 0.883    |
| 194 | 484   | 963.07 0.72 0.932                   | 0.180 0.040 0.883    |
| 196 | 484   | 977.56 0.72 0.932                   | 0.180 0.040 0.883    |
| 198 | 484   | 992.05 0.72 0.932                   | 0.180 0.040 0.883    |
| 200 | 484   | 1006.54 0.72 0.932                  | 0.180 0.040 0.883    |

CHET10 tristimulus values, chromatic values, and putties (n=1,4, n<sub>0</sub>=4,5)  
Normalized Overall (O) tristimulus values (E<sub>0</sub>=100), derived by hue angle

| no. | O     | chromatic values and chromaticities | no-chromatic values  |
|-----|-------|-------------------------------------|----------------------|
| 38  | 58.3  | 25.76 0.49 0.7748                   | 0.1313 0.028 0.782   |
| 40  | 455   | 13.14 0.61 0.7453                   | 0.139 0.029 0.782    |
| 42  | 480   | 9.49 0.69 0.7748                    | 0.1313 0.028 0.782   |
| 44  | 502   | 13.32 0.70 0.7821                   | 0.14 0.04 0.84 0.279 |
| 46  | 468.0 | 13.45 0.69 0.7748                   | 0.1313 0.028 0.782   |
| 48  | 488   | 18.67 0.87 0.87                     | 0.121 0.031 0.773    |
| 50  | 471   | 16.71 0.81 0.81                     | 0.121 0.029 0.784</  |

technical information: <http://farbe.li.ru-berlin.de> or <http://130.149.60.45/~farbmerrick>

$\lambda_{\text{G},\text{Y},\text{R}} = 475.503, 503.7, 4.494 \text{ e.nm}$   
 Observed colours: ( $\alpha_{\text{r}}$ ,  $\alpha_{\text{g}}$ ,  $\alpha_{\text{b}}$ )  
 max ( $\alpha$ ) chromatic value, D50  
 chroma ( $A^*$ ,  $B^*$ ,  $\Sigma$ )

$X_{\text{r}} = 94.03$ ,  $Y_{\text{r}} = 100.00$ ,  $Z_{\text{r}} = 80.83$   
 $\alpha_{\text{r}} = 0.3420$   $\alpha_{\text{g}} = 0.3638$   $\alpha_{\text{b}} = 0.2941$   
 $A_{\text{r}} = (\alpha_{\text{r}} - \alpha_{\text{b}}) Y / [Y(\alpha_{\text{r}} - \alpha_{\text{b}})]$   
 $B_{\text{r}} = (\alpha_{\text{g}} - \alpha_{\text{b}}) Y / [Y(\alpha_{\text{g}} - \alpha_{\text{b}})]$   
 $\alpha_{\text{r}} = 1, 43.0757 \pm 2.5702 \pm 0.0950$   
 $\alpha_{\text{g}} = 1, 51.9906, 3.1617 \pm 2.4046$   
 $n_{\text{r}} = 1.40$ ,  $n_{\text{g}} = 0.50$   
 $n = \text{D50}$

$\lambda_{\text{G},\text{Y},\text{R}} = 475.503, 503.7, 4.494 \text{ e.nm}$   
 Observed colours: ( $\alpha_{\text{r}}$ ,  $\alpha_{\text{g}}$ ,  $\alpha_{\text{b}}$ )  
 max ( $\alpha$ ) chromatic value, D50  
 chroma ( $A^*$ ,  $B^*$ ,  $\Sigma$ )

$X_{\text{r}} = 94.03$ ,  $Y_{\text{r}} = 100.00$ ,  $Z_{\text{r}} = 80.83$   
 $\alpha_{\text{r}} = 0.3420$   $\alpha_{\text{g}} = 0.3638$   $\alpha_{\text{b}} = 0.2941$   
 $A_{\text{r}} = (\alpha_{\text{r}} - \alpha_{\text{b}}) Y$   
 $B_{\text{r}} = (\alpha_{\text{g}} - \alpha_{\text{b}}) Y$   
 $\alpha_{\text{r}} = 1, 43.0757 \pm 2.5702 \pm 0.0950$   
 $\alpha_{\text{g}} = 1, 51.9906, 3.1617 \pm 2.4046$   
 $n_{\text{r}} = 1.40$ ,  $n_{\text{g}} = 0.50$   
 $n = \text{D50}$

TUB-test chart DE73; 4 CIE and 2 R17M observers, colorimetric calculations of chromatic values  
purity definition:  $a=1.4[3.0757x-2.5702y-0.0960]/y$ .  $b=0.5[1.9906x+3.8617y-2.4046]/y$

**R17M chromatic values, chromatic values, and position (p<sub>1</sub>,A<sub>1</sub>,A<sub>2</sub>,-55)**  
Normalized Overall (O) chromatic values (Y=100), defined by line angle

| no  | O   | chromatic values and chromaticities   | no  | O   | chromatic values and chromaticities |
|-----|-----|---------------------------------------|-----|-----|-------------------------------------|
| 80  | 43  | 26.98 26.14 67.62 0.359 0.313 0.086   | 111 | 75  | 76.02 102.312                       |
| 81  | 44  | 27.16 31.93 67.62 0.260 0.089 0.082   | 112 | 76  | 76.02 102.312                       |
| 82  | 45  | 28.15 33.55 74.06 0.265 0.089 0.132   | 113 | 77  | 76.02 102.312                       |
| 83  | 46  | 29.17 35.17 74.06 0.265 0.089 0.182   | 114 | 78  | 76.02 102.312                       |
| 84  | 47  | 30.20 36.79 74.06 0.265 0.089 0.232   | 115 | 79  | 76.02 102.312                       |
| 85  | 48  | 31.23 38.41 74.06 0.265 0.089 0.282   | 116 | 80  | 76.02 102.312                       |
| 86  | 49  | 32.26 40.03 74.06 0.265 0.089 0.332   | 117 | 81  | 76.02 102.312                       |
| 87  | 50  | 33.29 41.65 74.06 0.265 0.089 0.382   | 118 | 82  | 76.02 102.312                       |
| 88  | 51  | 34.32 43.27 74.06 0.265 0.089 0.432   | 119 | 83  | 76.02 102.312                       |
| 89  | 52  | 35.35 44.89 74.06 0.265 0.089 0.482   | 120 | 84  | 76.02 102.312                       |
| 90  | 53  | 36.38 46.51 74.06 0.265 0.089 0.532   | 121 | 85  | 76.02 102.312                       |
| 91  | 54  | 37.41 48.13 74.06 0.265 0.089 0.582   | 122 | 86  | 76.02 102.312                       |
| 92  | 55  | 38.44 49.75 74.06 0.265 0.089 0.632   | 123 | 87  | 76.02 102.312                       |
| 93  | 56  | 39.47 51.37 74.06 0.265 0.089 0.682   | 124 | 88  | 76.02 102.312                       |
| 94  | 57  | 40.50 52.99 74.06 0.265 0.089 0.732   | 125 | 89  | 76.02 102.312                       |
| 95  | 58  | 41.53 54.61 74.06 0.265 0.089 0.782   | 126 | 90  | 76.02 102.312                       |
| 96  | 59  | 42.56 56.23 74.06 0.265 0.089 0.832   | 127 | 91  | 76.02 102.312                       |
| 97  | 60  | 43.59 57.85 74.06 0.265 0.089 0.882   | 128 | 92  | 76.02 102.312                       |
| 98  | 61  | 44.62 59.47 74.06 0.265 0.089 0.932   | 129 | 93  | 76.02 102.312                       |
| 99  | 62  | 45.65 61.09 74.06 0.265 0.089 0.982   | 130 | 94  | 76.02 102.312                       |
| 100 | 63  | 46.68 62.71 74.06 0.265 0.089 1.032   | 131 | 95  | 76.02 102.312                       |
| 101 | 64  | 47.71 64.33 74.06 0.265 0.089 1.082   | 132 | 96  | 76.02 102.312                       |
| 102 | 65  | 48.74 65.95 74.06 0.265 0.089 1.132   | 133 | 97  | 76.02 102.312                       |
| 103 | 66  | 49.77 67.57 74.06 0.265 0.089 1.182   | 134 | 98  | 76.02 102.312                       |
| 104 | 67  | 50.80 69.19 74.06 0.265 0.089 1.232   | 135 | 99  | 76.02 102.312                       |
| 105 | 68  | 51.83 70.81 74.06 0.265 0.089 1.282   | 136 | 100 | 76.02 102.312                       |
| 106 | 69  | 52.86 72.43 74.06 0.265 0.089 1.332   | 137 | 101 | 76.02 102.312                       |
| 107 | 70  | 53.89 74.05 74.06 0.265 0.089 1.382   | 138 | 102 | 76.02 102.312                       |
| 108 | 71  | 54.92 75.67 74.06 0.265 0.089 1.432   | 139 | 103 | 76.02 102.312                       |
| 109 | 72  | 55.95 77.29 74.06 0.265 0.089 1.482   | 140 | 104 | 76.02 102.312                       |
| 110 | 73  | 56.98 78.91 74.06 0.265 0.089 1.532   | 141 | 105 | 76.02 102.312                       |
| 111 | 74  | 58.01 80.53 74.06 0.265 0.089 1.582   | 142 | 106 | 76.02 102.312                       |
| 112 | 75  | 59.04 82.15 74.06 0.265 0.089 1.632   | 143 | 107 | 76.02 102.312                       |
| 113 | 76  | 60.07 83.77 74.06 0.265 0.089 1.682   | 144 | 108 | 76.02 102.312                       |
| 114 | 77  | 61.10 85.39 74.06 0.265 0.089 1.732   | 145 | 109 | 76.02 102.312                       |
| 115 | 78  | 62.13 87.01 74.06 0.265 0.089 1.782   | 146 | 110 | 76.02 102.312                       |
| 116 | 79  | 63.16 88.63 74.06 0.265 0.089 1.832   | 147 | 111 | 76.02 102.312                       |
| 117 | 80  | 64.19 90.25 74.06 0.265 0.089 1.882   | 148 | 112 | 76.02 102.312                       |
| 118 | 81  | 65.22 91.87 74.06 0.265 0.089 1.932   | 149 | 113 | 76.02 102.312                       |
| 119 | 82  | 66.25 93.49 74.06 0.265 0.089 1.982   | 150 | 114 | 76.02 102.312                       |
| 120 | 83  | 67.28 95.11 74.06 0.265 0.089 2.032   | 151 | 115 | 76.02 102.312                       |
| 121 | 84  | 68.31 96.73 74.06 0.265 0.089 2.082   | 152 | 116 | 76.02 102.312                       |
| 122 | 85  | 69.34 98.35 74.06 0.265 0.089 2.132   | 153 | 117 | 76.02 102.312                       |
| 123 | 86  | 70.37 100.00 74.06 0.265 0.089 2.182  | 154 | 118 | 76.02 102.312                       |
| 124 | 87  | 71.40 101.62 74.06 0.265 0.089 2.232  | 155 | 119 | 76.02 102.312                       |
| 125 | 88  | 72.43 103.24 74.06 0.265 0.089 2.282  | 156 | 120 | 76.02 102.312                       |
| 126 | 89  | 73.46 104.86 74.06 0.265 0.089 2.332  | 157 | 121 | 76.02 102.312                       |
| 127 | 90  | 74.49 106.48 74.06 0.265 0.089 2.382  | 158 | 122 | 76.02 102.312                       |
| 128 | 91  | 75.52 108.10 74.06 0.265 0.089 2.432  | 159 | 123 | 76.02 102.312                       |
| 129 | 92  | 76.55 109.72 74.06 0.265 0.089 2.482  | 160 | 124 | 76.02 102.312                       |
| 130 | 93  | 77.58 111.34 74.06 0.265 0.089 2.532  | 161 | 125 | 76.02 102.312                       |
| 131 | 94  | 78.61 112.96 74.06 0.265 0.089 2.582  | 162 | 126 | 76.02 102.312                       |
| 132 | 95  | 79.64 114.58 74.06 0.265 0.089 2.632  | 163 | 127 | 76.02 102.312                       |
| 133 | 96  | 80.67 116.20 74.06 0.265 0.089 2.682  | 164 | 128 | 76.02 102.312                       |
| 134 | 97  | 81.70 117.82 74.06 0.265 0.089 2.732  | 165 | 129 | 76.02 102.312                       |
| 135 | 98  | 82.73 119.44 74.06 0.265 0.089 2.782  | 166 | 130 | 76.02 102.312                       |
| 136 | 99  | 83.76 121.06 74.06 0.265 0.089 2.832  | 167 | 131 | 76.02 102.312                       |
| 137 | 100 | 84.79 122.68 74.06 0.265 0.089 2.882  | 168 | 132 | 76.02 102.312                       |
| 138 | 101 | 85.82 124.30 74.06 0.265 0.089 2.932  | 169 | 133 | 76.02 102.312                       |
| 139 | 102 | 86.85 125.92 74.06 0.265 0.089 2.982  | 170 | 134 | 76.02 102.312                       |
| 140 | 103 | 87.88 127.54 74.06 0.265 0.089 3.032  | 171 | 135 | 76.02 102.312                       |
| 141 | 104 | 88.91 129.16 74.06 0.265 0.089 3.082  | 172 | 136 | 76.02 102.312                       |
| 142 | 105 | 89.94 130.78 74.06 0.265 0.089 3.132  | 173 | 137 | 76.02 102.312                       |
| 143 | 106 | 90.97 132.40 74.06 0.265 0.089 3.182  | 174 | 138 | 76.02 102.312                       |
| 144 | 107 | 91.00 134.02 74.06 0.265 0.089 3.232  | 175 | 139 | 76.02 102.312                       |
| 145 | 108 | 92.03 135.64 74.06 0.265 0.089 3.282  | 176 | 140 | 76.02 102.312                       |
| 146 | 109 | 93.06 137.26 74.06 0.265 0.089 3.332  | 177 | 141 | 76.02 102.312                       |
| 147 | 110 | 94.09 138.88 74.06 0.265 0.089 3.382  | 178 | 142 | 76.02 102.312                       |
| 148 | 111 | 95.12 140.50 74.06 0.265 0.089 3.432  | 179 | 143 | 76.02 102.312                       |
| 149 | 112 | 96.15 142.12 74.06 0.265 0.089 3.482  | 180 | 144 | 76.02 102.312                       |
| 150 | 113 | 97.18 143.74 74.06 0.265 0.089 3.532  | 181 | 145 | 76.02 102.312                       |
| 151 | 114 | 98.21 145.36 74.06 0.265 0.089 3.582  | 182 | 146 | 76.02 102.312                       |
| 152 | 115 | 99.24 146.98 74.06 0.265 0.089 3.632  | 183 | 147 | 76.02 102.312                       |
| 153 | 116 | 100.27 148.60 74.06 0.265 0.089 3.682 | 184 | 148 | 76.02 102.312                       |
| 154 | 117 | 101.30 150.22 74.06 0.265 0.089 3.732 | 185 | 149 | 76.02 102.312                       |
| 155 | 118 | 102.33 151.84 74.06 0.265 0.089 3.782 | 186 | 150 | 76.02 102.312                       |
| 156 | 119 | 103.36 153.46 74.06 0.265 0.089 3.832 | 187 | 151 | 76.02 102.312                       |
| 157 | 120 | 104.39 155.08 74.06 0.265 0.089 3.882 | 188 | 152 | 76.02 102.312                       |
| 158 | 121 | 105.42 156.70 74.06 0.265 0.089 3.932 | 189 | 153 | 76.02 102.312                       |
| 159 | 122 | 106.45 158.32 74.06 0.265 0.089 3.982 | 190 | 154 | 76.02 102.312                       |
| 160 | 123 | 107.48 159.94 74.06 0.265 0.089 4.032 | 191 | 155 | 76.02 102.312                       |
| 161 | 124 | 108.51 161.56 74.06 0.265 0.089 4.082 | 192 | 156 | 76.02 102.312                       |
| 162 | 125 | 109.54 163.18 74.06 0.265 0.089 4.132 | 193 | 157 | 76.02 102.312                       |
| 163 | 126 | 110.57 164.80 74.06 0.265 0.089 4.182 | 194 | 158 | 76.02 102.312                       |
| 164 | 127 | 111.60 166.42 74.06 0.265 0.089 4.232 | 195 | 159 | 76.02 102.312                       |
| 165 | 128 | 112.63 168.04 74.06 0.265 0.089 4.282 | 196 | 160 | 76.02 102.312                       |
| 166 | 129 | 113.66 169.66 74.06 0.265 0.089 4.332 | 197 | 161 | 76.02 102.312                       |
| 167 | 130 | 114.69 171.28 74.06 0.265 0.089 4.382 | 198 | 162 | 76.02 102.312                       |
| 168 | 131 | 115.72 172.90 74.06 0.265 0.089 4.432 | 199 | 163 | 76.02 102.312                       |
| 169 | 132 | 116.75 174.52 74.06 0.265 0.089 4.482 | 200 | 164 | 76.02 102.312                       |
| 170 | 133 | 117.78 176.14 74.06 0.265 0.089 4.532 | 201 | 165 | 76.02 102.312                       |
| 171 | 134 | 118.81 177.76 74.06 0.265 0.089 4.582 | 202 | 166 | 76.02 102.312                       |
| 172 | 135 | 119.84 179.38 74.06 0.265 0.089 4.632 | 203 | 167 | 76.02 102.312                       |
| 173 | 136 | 120.87 181.00 74.06 0.265 0.089 4.682 | 204 | 168 | 76.02 102.312                       |
| 174 | 137 | 121.90 182.62 74.06 0.265 0.089 4.732 | 205 | 169 | 76.02 102.312                       |
| 175 | 138 | 122.93 184.24 74.06 0.265 0.089 4.782 | 206 | 170 | 76.02 102.312                       |
| 176 | 139 | 123.96 185.86 74.06 0.265 0.089 4.832 | 207 | 171 | 76.02 102.312                       |
| 177 | 140 | 124.99 187.48 74.06 0.265 0.089 4.882 | 208 | 172 | 76.02 102.312                       |
| 178 | 141 | 126.02 189.10 74.06 0.265 0.089 4.932 | 209 | 173 | 76.02 102.312                       |
| 179 | 142 | 127.05 190.72 74.06 0.265 0.089 4.982 | 210 | 174 | 76.02 102.312                       |
| 180 | 143 | 128.08 192.34 74.06 0.265 0.089 5.032 | 211 | 175 | 76.02 102.312                       |
| 181 | 144 | 129.11 193.96 74.06 0.265 0.089 5.082 | 212 | 176 | 76.02 102.312                       |
| 182 | 145 | 130.14 195.58 74.06 0.265 0.089 5.132 | 213 | 177 | 76.02 102.312                       |
| 183 | 146 | 131.17 197.20 74.06 0.265 0.089 5.182 | 214 | 178 | 76.02 102.312                       |
| 184 | 147 | 132.20 198.82 74.06 0.265 0.089 5.232 | 215 | 179 | 76.02 102.312                       |
| 185 | 148 | 133.23 200.44 74.06 0.265 0.089 5.282 | 216 | 180 | 76.02 102.312                       |
| 186 | 149 | 134.26 202.06 74.06 0.265 0.089 5.332 | 217 | 181 | 76.02 102.312                       |
| 187 | 150 | 135.29 203.68 74.06 0.265 0.089 5.382 | 218 | 182 | 76.02 102.312                       |
| 188 | 151 | 136.32 205.30 74.06 0.265 0.089 5.432 | 219 | 183 | 76.02 102.312                       |
| 189 | 152 | 137.35 206.92 74.06 0.265 0.089 5.482 | 220 | 184 | 76.02 102.312                       |
| 190 | 153 | 138.38 208.54 74.06 0.265 0.089 5.532 | 221 | 185 | 76.02 102.312                       |
| 191 | 154 | 139.41 210.16 74.06 0.265 0.089 5.582 | 222 | 186 | 76.02 102.312                       |
| 192 | 155 | 140.44 211.78 74.06 0.265 0.089 5.632 | 223 | 187 | 76.02 102.312                       |
| 193 | 156 | 141.47 213.40 74.06 0.265 0.089 5.682 | 224 | 188 | 76.02 102.312                       |
| 194 | 157 | 142.50 215.02 74.06 0.265 0.089 5.732 | 225 | 189 | 76.02 102.312                       |
| 195 | 158 | 143.53 216.64 74.06 0.265 0.089 5.782 | 226 | 190 | 76.02 102.312                       |
| 196 | 159 | 144.56 218.26 74.06 0.265 0.089 5.832 | 227 | 191 | 76.02 102.312                       |
| 197 | 160 | 145.59 219.88 74.06 0.265 0.089 5.882 | 228 | 192 | 76.02 102.312                       |
| 198 | 161 | 146.62 221.50 74.06 0.265 0.089 5.932 | 229 | 193 | 76.02 102.312                       |
| 199 | 162 | 147.65 223.12 74.06 0.265 0.089 5.982 | 230 | 194 | 76.02 102.312                       |
| 200 | 163 | 148.68 224.74 74.06 0.265 0.089 6.032 | 231 | 195 | 76.02 102.312                       |
| 201 | 164 | 149.71 226.36 74.06 0.265 0.089 6.082 | 232 | 196 | 76.02 102.312                       |
| 202 | 165 | 150.74 227.98 74.06 0.265 0.089 6.132 | 233 | 197 | 76.02 102.312                       |
| 203 | 166 | 151.77 229.60 74.06 0.265 0.089 6.182 | 234 | 198 | 76.02 102.312                       |
| 204 | 167 | 152.80 231.22 74.06 0.265 0.089 6.232 | 235 | 199 | 76.02 102.312                       |
| 205 | 168 | 153.83 232.84 74.06 0.265 0.089 6.282 | 236 |     |                                     |