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Technical information: <http://www.ps.bam.de> Version 2.1, io=1,1

Hue data transfer of the Systems SRS18 or SRS00 if one hue angle is given:

$h_{ab}$  (CIELAB hue angle),  $h_{ab,s}$  (calculated from  $rgb^*_3$ ) or  $h_{ab,e}$  (elementary hue angle)

| $h_{ab}$ | $h_{ab,s}$ | $h_{ab,e}$ | $h^*_s$ | $h^*$ | $h^*_e=e^*$ | $h_{ab,s}$ | $h_{ab}$ | $h_{ab,e}$ | $h^*_s$ | $h^*$ | $h^*_e=e^*$ | $h_{ab,e}$ | $h_{ab}$ | $h_{ab,s}$ | $h^*_e=e^*$ | $h^*_s$     |
|----------|------------|------------|---------|-------|-------------|------------|----------|------------|---------|-------|-------------|------------|----------|------------|-------------|-------------|
| 0        | 0          | 340        | 0.0     | 0.0   | 0.944       | 0          | 0        | 340        | 0.0     | 0.0   | 0.944       | 0          | 26       | 26         | 0.0         | 0.071 0.001 |
| 10       | 10         | 348        | 0.028   | 0.028 | 0.966       | 10         | 10       | 348        | 0.028   | 0.028 | 0.966       | 10         | 33       | 33         | 0.028       | 0.092 0.028 |
| 20       | 20         | 356        | 0.056   | 0.056 | 0.988       | 20         | 20       | 356        | 0.056   | 0.056 | 0.988       | 20         | 40       | 40         | 0.056       | 0.112 0.054 |
| 30       | 30         | 6          | 0.083   | 0.083 | 0.016       | 30         | 30       | 6          | 0.083   | 0.083 | 0.016       | 30         | 48       | 48         | 0.083       | 0.133 0.084 |
| 40       | 40         | 19         | 0.111   | 0.111 | 0.054       | 40         | 40       | 19         | 0.111   | 0.111 | 0.054       | 40         | 55       | 55         | 0.111       | 0.154 0.11  |
| 50       | 50         | 33         | 0.139   | 0.139 | 0.091       | 50         | 50       | 33         | 0.139   | 0.139 | 0.091       | 50         | 63       | 63         | 0.139       | 0.174 0.14  |
| 60       | 60         | 46         | 0.167   | 0.167 | 0.129       | 60         | 60       | 46         | 0.167   | 0.167 | 0.129       | 60         | 70       | 70         | 0.167       | 0.195 0.166 |
| 70       | 70         | 60         | 0.194   | 0.194 | 0.166       | 70         | 70       | 60         | 0.194   | 0.194 | 0.166       | 70         | 78       | 78         | 0.194       | 0.215 0.196 |
| 80       | 80         | 73         | 0.222   | 0.222 | 0.204       | 80         | 80       | 73         | 0.222   | 0.222 | 0.204       | 80         | 85       | 85         | 0.222       | 0.236 0.222 |
| 90       | 90         | 87         | 0.25    | 0.25  | 0.241       | 90         | 90       | 87         | 0.25    | 0.25  | 0.241       | 90         | 92       | 92         | 0.25        | 0.257 0.249 |
| 100      | 100        | 100        | 0.278   | 0.278 | 0.277       | 100        | 100      | 100        | 0.278   | 0.278 | 0.277       | 100        | 100      | 100        | 0.278       | 0.278 0.277 |
| 110      | 110        | 113        | 0.306   | 0.306 | 0.313       | 110        | 110      | 113        | 0.306   | 0.306 | 0.313       | 110        | 108      | 108        | 0.306       | 0.3 0.306   |
| 120      | 120        | 126        | 0.333   | 0.333 | 0.349       | 120        | 120      | 126        | 0.333   | 0.333 | 0.349       | 120        | 116      | 116        | 0.333       | 0.321 0.335 |
| 130      | 130        | 139        | 0.361   | 0.361 | 0.385       | 130        | 130      | 139        | 0.361   | 0.361 | 0.385       | 130        | 123      | 123        | 0.361       | 0.343 0.36  |
| 140      | 140        | 151        | 0.389   | 0.389 | 0.421       | 140        | 140      | 151        | 0.389   | 0.389 | 0.421       | 140        | 131      | 131        | 0.389       | 0.364 0.388 |
| 150      | 150        | 164        | 0.417   | 0.417 | 0.456       | 150        | 150      | 164        | 0.417   | 0.417 | 0.456       | 150        | 139      | 139        | 0.417       | 0.386 0.417 |
| 160      | 160        | 177        | 0.444   | 0.444 | 0.492       | 160        | 160      | 177        | 0.444   | 0.444 | 0.492       | 160        | 147      | 147        | 0.444       | 0.407 0.446 |
| 170      | 170        | 186        | 0.472   | 0.472 | 0.518       | 170        | 170      | 186        | 0.472   | 0.472 | 0.518       | 170        | 154      | 154        | 0.472       | 0.429 0.471 |
| 180      | 180        | 195        | 0.5     | 0.5   | 0.541       | 180        | 180      | 195        | 0.5     | 0.5   | 0.541       | 180        | 162      | 162        | 0.5         | 0.45 0.499  |
| 190      | 190        | 203        | 0.528   | 0.528 | 0.564       | 190        | 190      | 203        | 0.528   | 0.528 | 0.564       | 190        | 174      | 174        | 0.528       | 0.484 0.527 |
| 200      | 200        | 211        | 0.556   | 0.556 | 0.587       | 200        | 200      | 211        | 0.556   | 0.556 | 0.587       | 200        | 186      | 186        | 0.556       | 0.518 0.554 |
| 210      | 210        | 219        | 0.583   | 0.583 | 0.609       | 210        | 210      | 219        | 0.583   | 0.583 | 0.609       | 210        | 199      | 199        | 0.583       | 0.552 0.584 |
| 220      | 220        | 228        | 0.611   | 0.611 | 0.632       | 220        | 220      | 228        | 0.611   | 0.611 | 0.632       | 220        | 211      | 211        | 0.611       | 0.585 0.612 |
| 230      | 230        | 236        | 0.639   | 0.639 | 0.655       | 230        | 230      | 236        | 0.639   | 0.639 | 0.655       | 230        | 223      | 223        | 0.639       | 0.619 0.639 |
| 240      | 240        | 244        | 0.667   | 0.667 | 0.678       | 240        | 240      | 244        | 0.667   | 0.667 | 0.678       | 240        | 235      | 235        | 0.667       | 0.653 0.667 |
| 250      | 250        | 252        | 0.694   | 0.694 | 0.701       | 250        | 250      | 252        | 0.694   | 0.694 | 0.701       | 250        | 247      | 247        | 0.694       | 0.687 0.694 |
| 260      | 260        | 261        | 0.722   | 0.722 | 0.724       | 260        | 260      | 261        | 0.722   | 0.722 | 0.724       | 260        | 259      | 259        | 0.722       | 0.72 0.721  |
| 270      | 270        | 269        | 0.75    | 0.75  | 0.747       | 270        | 270      | 269        | 0.75    | 0.75  | 0.747       | 270        | 271      | 271        | 0.75        | 0.754 0.749 |
| 280      | 280        | 277        | 0.778   | 0.778 | 0.769       | 280        | 280      | 277        | 0.778   | 0.778 | 0.769       | 280        | 284      | 284        | 0.778       | 0.789 0.777 |
| 290      | 290        | 285        | 0.806   | 0.806 | 0.791       | 290        | 290      | 285        | 0.806   | 0.806 | 0.791       | 290        | 297      | 297        | 0.806       | 0.825 0.806 |
| 300      | 300        | 292        | 0.833   | 0.833 | 0.812       | 300        | 300      | 292        | 0.833   | 0.833 | 0.812       | 300        | 310      | 310        | 0.833       | 0.86 0.834  |
| 310      | 310        | 300        | 0.861   | 0.861 | 0.834       | 310        | 310      | 300        | 0.861   | 0.861 | 0.834       | 310        | 322      | 322        | 0.861       | 0.895 0.861 |
| 320      | 320        | 308        | 0.889   | 0.889 | 0.856       | 320        | 320      | 308        | 0.889   | 0.889 | 0.856       | 320        | 335      | 335        | 0.889       | 0.93 0.889  |
| 330      | 330        | 316        | 0.917   | 0.917 | 0.878       | 330        | 330      | 316        | 0.917   | 0.917 | 0.878       | 330        | 348      | 348        | 0.917       | 0.966 0.918 |
| 340      | 340        | 324        | 0.944   | 0.944 | 0.9         | 340        | 340      | 324        | 0.944   | 0.944 | 0.9         | 340        | 0        | 0          | 0.944       | 0.001 0.944 |
| 350      | 350        | 332        | 0.972   | 0.972 | 0.922       | 350        | 350      | 332        | 0.972   | 0.972 | 0.922       | 350        | 13       | 13         | 0.972       | 0.036 0.972 |
| 0        | 0          | 340        | 0.0     | 0.0   | 0.944       | 0          | 0        | 340        | 0.0     | 0.0   | 0.944       | 0          | 26       | 26         | 0.0         | 0.071 0.001 |

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BAM-test chart ZE22; Hue and colorimetric workflow  
Table: hue data transfer for  $h_{ab}$ ,  $h_{ab,s}$  or  $h_{ab,e}$

Hue data transfer of the Systems NRS18 or NRS00 if one hue angle is given:

$h_{ab}$  (CIELAB hue angle),  $h_{ab,s}$  (calculated from  $rgb^*_3$ ) or  $h_{ab,e}$  (elementary hue angle)

| $h_{ab}$ | $h_{ab,s}$ | $h_{ab,e}$ | $h^*_s$ | $h^*_e=e^*$ | $h_{ab,s}$ | $h_{ab}$ | $h_{ab,e}$ | $h^*_s$ | $h^*$ | $h^*_e=e^*$ | $h_{ab,e}$ | $h_{ab}$ | $h_{ab,s}$ | $h^*_e=e^*h^*$ | $h^*_s$ |       |       |
|----------|------------|------------|---------|-------------|------------|----------|------------|---------|-------|-------------|------------|----------|------------|----------------|---------|-------|-------|
| 0        | 3          | 340        | 0.0     | 0.009       | 0.944      | 0        | 357        | 337     | 0.0   | 0.992       | 0.937      | 0        | 26         | 30             | 0.0     | 0.071 | 0.001 |
| 10       | 14         | 348        | 0.028   | 0.038       | 0.966      | 10       | 7          | 345     | 0.028 | 0.018       | 0.959      | 10       | 33         | 37             | 0.028   | 0.092 | 0.028 |
| 20       | 24         | 356        | 0.056   | 0.067       | 0.988      | 20       | 16         | 352     | 0.056 | 0.044       | 0.979      | 20       | 40         | 43             | 0.056   | 0.112 | 0.054 |
| 30       | 34         | 6          | 0.083   | 0.095       | 0.016      | 30       | 25         | 359     | 0.083 | 0.071       | 0.999      | 30       | 48         | 50             | 0.083   | 0.133 | 0.084 |
| 40       | 43         | 19         | 0.111   | 0.12        | 0.054      | 40       | 37         | 15      | 0.111 | 0.102       | 0.043      | 40       | 55         | 57             | 0.111   | 0.154 | 0.11  |
| 50       | 52         | 33         | 0.139   | 0.144       | 0.091      | 50       | 48         | 30      | 0.139 | 0.133       | 0.084      | 50       | 63         | 64             | 0.139   | 0.174 | 0.14  |
| 60       | 61         | 46         | 0.167   | 0.169       | 0.129      | 60       | 59         | 45      | 0.167 | 0.164       | 0.125      | 60       | 70         | 70             | 0.167   | 0.195 | 0.166 |
| 70       | 70         | 60         | 0.194   | 0.194       | 0.166      | 70       | 70         | 60      | 0.194 | 0.195       | 0.166      | 70       | 78         | 77             | 0.194   | 0.215 | 0.196 |
| 80       | 79         | 73         | 0.222   | 0.219       | 0.204      | 80       | 81         | 75      | 0.222 | 0.225       | 0.207      | 80       | 85         | 83             | 0.222   | 0.236 | 0.222 |
| 90       | 88         | 87         | 0.25    | 0.244       | 0.241      | 90       | 92         | 89      | 0.25  | 0.256       | 0.249      | 90       | 92         | 90             | 0.25    | 0.257 | 0.249 |
| 100      | 97         | 100        | 0.278   | 0.268       | 0.277      | 100      | 104        | 105     | 0.278 | 0.289       | 0.292      | 100      | 100        | 97             | 0.278   | 0.278 | 0.277 |
| 110      | 105        | 113        | 0.306   | 0.292       | 0.313      | 110      | 116        | 120     | 0.306 | 0.321       | 0.335      | 110      | 108        | 103            | 0.306   | 0.3   | 0.306 |
| 120      | 114        | 126        | 0.333   | 0.316       | 0.349      | 120      | 127        | 135     | 0.333 | 0.354       | 0.374      | 120      | 116        | 110            | 0.333   | 0.321 | 0.335 |
| 130      | 122        | 139        | 0.361   | 0.34        | 0.385      | 130      | 139        | 150     | 0.361 | 0.386       | 0.417      | 130      | 123        | 116            | 0.361   | 0.343 | 0.36  |
| 140      | 131        | 151        | 0.389   | 0.364       | 0.421      | 140      | 151        | 166     | 0.389 | 0.418       | 0.46       | 140      | 131        | 123            | 0.389   | 0.364 | 0.388 |
| 150      | 140        | 164        | 0.417   | 0.388       | 0.456      | 150      | 162        | 180     | 0.417 | 0.451       | 0.499      | 150      | 139        | 130            | 0.417   | 0.386 | 0.417 |
| 160      | 148        | 177        | 0.444   | 0.411       | 0.492      | 160      | 171        | 187     | 0.444 | 0.476       | 0.52       | 160      | 147        | 137            | 0.444   | 0.407 | 0.446 |
| 170      | 159        | 186        | 0.472   | 0.44        | 0.518      | 170      | 180        | 195     | 0.472 | 0.501       | 0.541      | 170      | 154        | 143            | 0.472   | 0.429 | 0.471 |
| 180      | 169        | 195        | 0.5     | 0.471       | 0.541      | 180      | 190        | 203     | 0.5   | 0.527       | 0.564      | 180      | 162        | 150            | 0.5     | 0.45  | 0.499 |
| 190      | 180        | 203        | 0.528   | 0.501       | 0.564      | 190      | 199        | 210     | 0.528 | 0.552       | 0.584      | 190      | 174        | 163            | 0.528   | 0.484 | 0.527 |
| 200      | 191        | 211        | 0.556   | 0.532       | 0.587      | 200      | 208        | 218     | 0.556 | 0.577       | 0.605      | 200      | 186        | 176            | 0.556   | 0.518 | 0.554 |
| 210      | 202        | 219        | 0.583   | 0.562       | 0.609      | 210      | 217        | 225     | 0.583 | 0.603       | 0.625      | 210      | 199        | 190            | 0.583   | 0.552 | 0.584 |
| 220      | 213        | 228        | 0.611   | 0.593       | 0.632      | 220      | 226        | 233     | 0.611 | 0.628       | 0.646      | 220      | 211        | 203            | 0.611   | 0.585 | 0.612 |
| 230      | 224        | 236        | 0.639   | 0.623       | 0.655      | 230      | 235        | 240     | 0.639 | 0.653       | 0.667      | 230      | 223        | 217            | 0.639   | 0.619 | 0.639 |
| 240      | 235        | 244        | 0.667   | 0.653       | 0.678      | 240      | 244        | 247     | 0.667 | 0.679       | 0.687      | 240      | 235        | 230            | 0.667   | 0.653 | 0.667 |
| 250      | 246        | 252        | 0.694   | 0.684       | 0.701      | 250      | 253        | 255     | 0.694 | 0.704       | 0.708      | 250      | 247        | 243            | 0.694   | 0.687 | 0.694 |
| 260      | 257        | 261        | 0.722   | 0.714       | 0.724      | 260      | 263        | 263     | 0.722 | 0.729       | 0.731      | 260      | 259        | 256            | 0.722   | 0.72  | 0.721 |
| 270      | 268        | 269        | 0.75    | 0.745       | 0.747      | 270      | 272        | 270     | 0.75  | 0.755       | 0.751      | 270      | 271        | 269            | 0.75    | 0.754 | 0.749 |
| 280      | 279        | 277        | 0.778   | 0.774       | 0.769      | 280      | 281        | 277     | 0.778 | 0.781       | 0.771      | 280      | 284        | 283            | 0.778   | 0.789 | 0.777 |
| 290      | 289        | 285        | 0.806   | 0.804       | 0.791      | 290      | 291        | 285     | 0.806 | 0.807       | 0.793      | 290      | 297        | 297            | 0.806   | 0.825 | 0.806 |
| 300      | 300        | 292        | 0.833   | 0.833       | 0.812      | 300      | 300        | 292     | 0.833 | 0.834       | 0.812      | 300      | 310        | 310            | 0.833   | 0.86  | 0.834 |
| 310      | 310        | 300        | 0.861   | 0.862       | 0.834      | 310      | 310        | 300     | 0.861 | 0.86        | 0.834      | 310      | 322        | 323            | 0.861   | 0.895 | 0.861 |
| 320      | 321        | 308        | 0.889   | 0.891       | 0.856      | 320      | 319        | 307     | 0.889 | 0.886       | 0.854      | 320      | 335        | 337            | 0.889   | 0.93  | 0.889 |
| 330      | 331        | 316        | 0.917   | 0.921       | 0.878      | 330      | 329        | 315     | 0.917 | 0.913       | 0.876      | 330      | 348        | 350            | 0.917   | 0.966 | 0.918 |
| 340      | 342        | 324        | 0.944   | 0.95        | 0.9        | 340      | 338        | 322     | 0.944 | 0.939       | 0.896      | 340      | 0          | 3              | 0.944   | 0.001 | 0.944 |
| 350      | 353        | 332        | 0.972   | 0.979       | 0.922      | 350      | 348        | 330     | 0.972 | 0.965       | 0.918      | 350      | 13         | 17             | 0.972   | 0.036 | 0.972 |
| 0        | 3          | 340        | 0.0     | 0.009       | 0.944      | 0        | 357        | 337     | 0.0   | 0.992       | 0.937      | 0        | 26         | 30             | 0.0     | 0.071 | 0.001 |