

|    | A | B | C | D   | E     | F                                  | G                                  | H                                | I | J | K | L | M   | N     | O                                  | P                                  | Q                                | R | S | T | U | V   | W     | X                                  | Y                                  | Z                                | a |
|----|---|---|---|-----|-------|------------------------------------|------------------------------------|----------------------------------|---|---|---|---|-----|-------|------------------------------------|------------------------------------|----------------------------------|---|---|---|---|-----|-------|------------------------------------|------------------------------------|----------------------------------|---|
|    |   | ⊗ |   | c*  | Δc*   | olv* <sub>3</sub>                  | nce*                               | LCH* <sub>a</sub>                |   |   | ⊗ |   | c*  | Δc*   | olv* <sub>3</sub>                  | nce*                               | LCH* <sub>a</sub>                |   |   | ⊗ |   | c*  | Δc*   | olv* <sub>3</sub>                  | nce*                               | LCH* <sub>a</sub>                |   |
| 01 |   |   |   | 1.0 |       | 000 F01<br>1.0<br>0.0<br>0.0       | 000 G01<br>47.94<br>1.0<br>0.104   | 000 H01<br>47.94<br>82.62<br>37  |   |   |   |   | 1.0 |       | 017 O01<br>1.0<br>0.0<br>0.0       | 017 P01<br>1.0<br>1.0<br>0.104     | 017 Q01<br>47.94<br>82.62<br>37  |   |   | ⊗ |   | 1.0 |       | 034 X01<br>1.0<br>0.0<br>0.0       | 034 Y01<br>0.0<br>1.0<br>0.104     | 034 Z01<br>47.93<br>82.62<br>37  |   |
| 02 |   | ● | ● |     | 0.125 | 001 F02<br>0.937<br>0.062<br>0.062 | 001 G02<br>0.062<br>0.875<br>0.104 | 001 H02<br>49.03<br>72.29<br>37  |   |   | ● | ● |     | 0.234 | 018 O02<br>0.882<br>0.117<br>0.117 | 018 P02<br>0.062<br>0.765<br>0.104 | 018 Q02<br>49.99<br>63.26<br>37  |   |   | ⊗ | ● |     | 0.064 | 035 X02<br>0.967<br>0.032<br>0.032 | 035 Y02<br>0.062<br>0.935<br>0.104 | 035 Z02<br>48.5<br>77.29<br>37   |   |
| 03 |   | ● | ● |     | 0.125 | 002 F03<br>0.875<br>0.125<br>0.125 | 002 G03<br>0.125<br>0.75<br>0.104  | 002 H03<br>50.13<br>61.97<br>37  |   |   | ● | ● |     | 0.203 | 019 O03<br>0.781<br>0.218<br>0.218 | 019 P03<br>0.125<br>0.562<br>0.104 | 019 Q03<br>51.77<br>46.47<br>37  |   |   | ● | ● |     | 0.069 | 036 X03<br>0.933<br>0.066<br>0.066 | 036 Y03<br>0.125<br>0.866<br>0.104 | 036 Z03<br>49.11<br>71.55<br>37  |   |
| 04 |   | ● | ● |     | 0.125 | 003 F04<br>0.812<br>0.187<br>0.187 | 003 G04<br>0.187<br>0.625<br>0.104 | 003 H04<br>51.22<br>51.64<br>37  |   |   | ● | ● |     | 0.171 | 020 O04<br>0.695<br>0.304<br>0.304 | 020 P04<br>0.187<br>0.39<br>0.104  | 020 Q04<br>53.28<br>32.27<br>37  |   |   | ● | ● |     | 0.075 | 037 X04<br>0.895<br>0.104<br>0.104 | 037 Y04<br>0.187<br>0.79<br>0.104  | 037 Z04<br>49.77<br>65.32<br>37  |   |
| 05 |   | ● | ● |     | 0.125 | 004 F05<br>0.75<br>0.25<br>0.25    | 004 G05<br>0.25<br>0.5<br>0.104    | 004 H05<br>52.32<br>41.31<br>37  |   |   | ● | ● |     | 0.14  | 021 O05<br>0.625<br>0.375<br>0.375 | 021 P05<br>0.25<br>0.25<br>0.104   | 021 Q05<br>54.51<br>20.65<br>37  |   |   | ● | ● |     | 0.083 | 038 X05<br>0.853<br>0.146<br>0.146 | 038 Y05<br>0.25<br>0.707<br>0.104  | 038 Z05<br>50.5<br>58.42<br>37   |   |
| 06 |   | ● | ● |     | 0.125 | 005 F06<br>0.687<br>0.312<br>0.312 | 005 G06<br>0.312<br>0.375<br>0.104 | 005 H06<br>53.42<br>30.98<br>37  |   |   | ● | ● |     | 0.109 | 022 O06<br>0.57<br>0.429<br>0.429  | 022 P06<br>0.312<br>0.14<br>0.104  | 022 Q06<br>55.47<br>11.61<br>37  |   |   | ● | ● |     | 0.094 | 039 X06<br>0.806<br>0.193<br>0.193 | 039 Y06<br>0.312<br>0.612<br>0.104 | 039 Z06<br>51.33<br>50.59<br>37  |   |
| 07 |   | ● | ● |     | 0.125 | 006 F07<br>0.625<br>0.375<br>0.375 | 006 G07<br>0.375<br>0.25<br>0.104  | 006 H07<br>54.51<br>20.65<br>37  |   |   | ⊗ | ● |     | 0.046 | 023 O07<br>0.531<br>0.468<br>0.468 | 023 P07<br>0.375<br>0.062<br>0.104 | 023 Q07<br>56.16<br>5.16<br>37   |   |   | ● | ● |     | 0.146 | 040 X07<br>0.75<br>0.249<br>0.249  | 040 Y07<br>0.375<br>0.5<br>0.104   | 040 Z07<br>52.32<br>41.31<br>37  |   |
| 08 |   | ● | ● |     | 0.125 | 007 F08<br>0.562<br>0.437<br>0.437 | 007 G08<br>0.437<br>0.125<br>0.104 | 007 H08<br>55.61<br>10.32<br>37  |   |   | ⊗ | ● |     | 0.015 | 024 O08<br>0.507<br>0.492<br>0.492 | 024 P08<br>0.437<br>0.015<br>0.104 | 024 Q08<br>56.57<br>1.29<br>37   |   |   | ● | ● | ⊗   | 0.353 | 041 X08<br>0.676<br>0.323<br>0.323 | 041 Y08<br>0.437<br>0.353<br>0.104 | 041 Z08<br>53.6<br>29.21<br>37   |   |
| 09 |   | ● | ● |     | 0.125 | 008 F09<br>0.5<br>0.5<br>0.5       | 008 G09<br>0.5<br>0.0<br>0.0       | 008 H09<br>56.71<br>0.0<br>0     |   |   | ⊗ | ● |     | 0.015 | 025 O09<br>0.5<br>0.5<br>0.5       | 025 P09<br>0.5<br>0.0<br>0.0       | 025 Q09<br>56.71<br>0.0<br>0     |   |   | ● | ● | ⊗   | 0.001 | 042 X09<br>0.5<br>0.5<br>0.5       | 042 Y09<br>0.001<br>0.0<br>0.0     | 042 Z09<br>56.71<br>0.0<br>0     |   |
| 10 |   | ● | ● |     | 0.125 | 009 F10<br>0.437<br>0.562<br>0.562 | 009 G10<br>0.437<br>0.125<br>0.655 | 009 H10<br>56.94<br>6.78<br>236  |   |   | ⊗ | ● |     | 0.046 | 026 O10<br>0.492<br>0.507<br>0.507 | 026 P10<br>0.437<br>0.015<br>0.655 | 026 Q10<br>56.73<br>0.84<br>236  |   |   | ● | ● |     | 0.146 | 043 X10<br>0.323<br>0.676<br>0.676 | 043 Y10<br>0.437<br>0.353<br>0.655 | 043 Z10<br>57.38<br>19.19<br>236 |   |
| 11 |   | ● | ● |     | 0.125 | 010 F11<br>0.375<br>0.625<br>0.625 | 010 G11<br>0.375<br>0.25<br>0.655  | 010 H11<br>57.18<br>13.57<br>236 |   |   | ● | ● |     | 0.062 | 027 O11<br>0.468<br>0.531<br>0.531 | 027 P11<br>0.375<br>0.062<br>0.655 | 027 Q11<br>56.82<br>3.39<br>236  |   |   | ● | ● |     | 0.112 | 044 X11<br>0.249<br>0.75<br>0.75   | 044 Y11<br>0.375<br>0.5<br>0.655   | 044 Z11<br>57.66<br>27.14<br>236 |   |
| 12 |   | ● | ● |     | 0.125 | 011 F12<br>0.312<br>0.687<br>0.687 | 011 G12<br>0.312<br>0.375<br>0.655 | 011 H12<br>57.42<br>20.36<br>236 |   |   | ● | ● |     | 0.109 | 028 O12<br>0.429<br>0.57<br>0.57   | 028 P12<br>0.312<br>0.14<br>0.655  | 028 Q12<br>56.97<br>7.63<br>236  |   |   | ● | ● |     | 0.094 | 045 X12<br>0.193<br>0.806<br>0.806 | 045 Y12<br>0.312<br>0.612<br>0.655 | 045 Z12<br>57.87<br>33.25<br>236 |   |
| 13 |   | ● | ● |     | 0.125 | 012 F13<br>0.25<br>0.75<br>0.75    | 012 G13<br>0.25<br>0.5<br>0.655    | 012 H13<br>57.66<br>27.14<br>236 |   |   | ● | ● |     | 0.14  | 029 O13<br>0.375<br>0.625<br>0.625 | 029 P13<br>0.25<br>0.25<br>0.655   | 029 Q13<br>57.18<br>13.57<br>236 |   |   | ● | ● |     | 0.083 | 046 X13<br>0.146<br>0.853<br>0.853 | 046 Y13<br>0.25<br>0.707<br>0.655  | 046 Z13<br>58.06<br>38.39<br>236 |   |
| 14 |   | ● | ● |     | 0.125 | 013 F14<br>0.187<br>0.812<br>0.812 | 013 G14<br>0.187<br>0.625<br>0.655 | 013 H14<br>57.9<br>33.93<br>236  |   |   | ● | ● |     | 0.171 | 030 O14<br>0.304<br>0.695<br>0.695 | 030 P14<br>0.187<br>0.39<br>0.655  | 030 Q14<br>57.45<br>21.2<br>236  |   |   | ● | ● |     | 0.075 | 047 X14<br>0.104<br>0.895<br>0.895 | 047 Y14<br>0.187<br>0.79<br>0.655  | 047 Z14<br>58.21<br>42.92<br>236 |   |
| 15 |   | ● | ● |     | 0.125 | 014 F15<br>0.125<br>0.875<br>0.875 | 014 G15<br>0.125<br>0.75<br>0.655  | 014 H15<br>58.14<br>40.72<br>236 |   |   | ● | ● |     | 0.203 | 031 O15<br>0.218<br>0.781<br>0.781 | 031 P15<br>0.125<br>0.562<br>0.655 | 031 Q15<br>57.78<br>30.54<br>236 |   |   | ● | ● |     | 0.069 | 048 X15<br>0.066<br>0.933<br>0.933 | 048 Y15<br>0.125<br>0.866<br>0.655 | 048 Z15<br>58.36<br>47.02<br>236 |   |
| 16 |   | ● | ● |     | 0.125 | 015 F16<br>0.062<br>0.937<br>0.937 | 015 G16<br>0.062<br>0.875<br>0.655 | 015 H16<br>58.38<br>47.51<br>236 |   |   | ● | ● |     | 0.234 | 032 O16<br>0.117<br>0.882<br>0.882 | 032 P16<br>0.062<br>0.765<br>0.655 | 032 Q16<br>58.17<br>41.57<br>236 |   |   | ● | ● |     | 0.064 | 049 X16<br>0.032<br>0.967<br>0.967 | 049 Y16<br>0.062<br>0.935<br>0.655 | 049 Z16<br>58.49<br>50.79<br>236 |   |
| 17 |   | ⊗ |   | 1.0 |       | 016 F17<br>0.0<br>1.0<br>1.0       | 016 G17<br>0.0<br>1.0<br>0.655     | 016 H17<br>58.62<br>54.29<br>236 |   |   | ⊗ |   | 1.0 |       | 033 O17<br>0.0<br>1.0<br>1.0       | 033 P17<br>0.0<br>1.0<br>0.655     | 033 Q17<br>58.62<br>54.29<br>236 |   |   | ⊗ |   | 1.0 |       | 050 X17<br>0.0<br>1.0<br>1.0       | 050 Y17<br>0.0<br>1.0<br>0.655     | 050 Z17<br>58.62<br>54.29<br>236 |   |