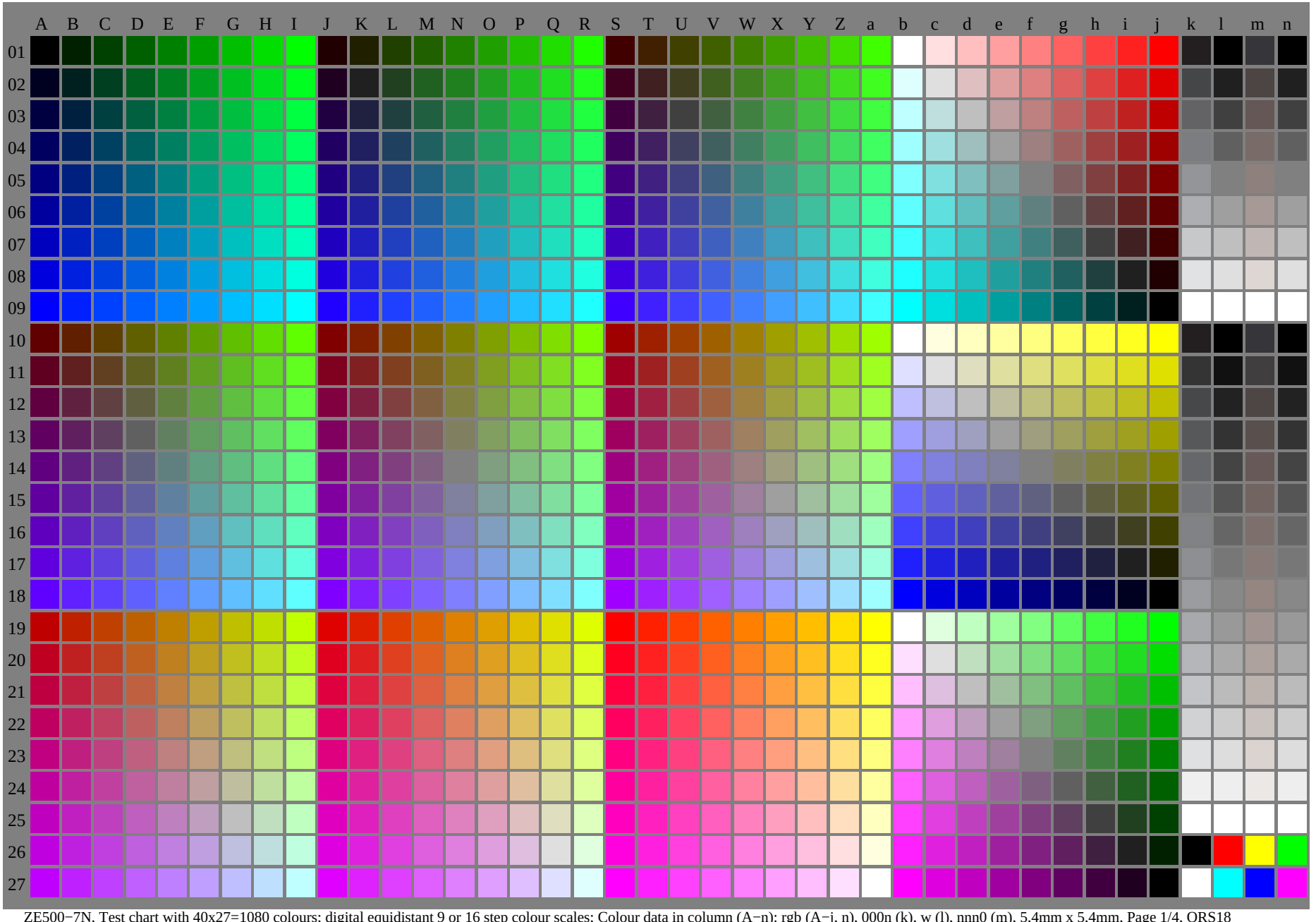
See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems



ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 1/4, ORS18

	A	B	C	D	E	F	G	H	I
01	0000 A01 0.0 0.0 0.0	0009 B01 0.0 0.125 0.0	0018 C01 0.0 0.25 0.0	0027 D01 0.0 0.375 0.0	0036 E01 0.0 0.5 0.0	0045 F01 0.0 0.625 0.0	0054 G01 0.0 0.75 0.0	0063 H01 0.0 0.875 0.0	0072 I01 0.0 1.0 0.0
02	0001 A02 0.0 0.0 0.125	0010 B02 0.0 0.125 0.125	0019 C02 0.0 0.25 0.125	0028 D02 0.0 0.375 0.125	0037 E02 0.0 0.5 0.125	0046 F02 0.0 0.625 0.125	0055 G02 0.0 0.75 0.125	0064 H02 0.0 0.875 0.125	0073 I02 0.0 1.0 0.125
03	0002 A03 0.0 0.0 0.25	0011 B03 0.0 0.125 0.25	0020 C03 0.0 0.25 0.25	0029 D03 0.0 0.375 0.25	0038 E03 0.0 0.5 0.25	0047 F03 0.0 0.625 0.25	0056 G03 0.0 0.75 0.25	0065 H03 0.0 0.875 0.25	0074 I03 0.0 1.0 0.25
04	0003 A04 0.0 0.0 0.375	0012 B04 0.0 0.125 0.375	0021 C04 0.0 0.25 0.375	0030 D04 0.0 0.375 0.375	0039 E04 0.0 0.5 0.375	0048 F04 0.0 0.625 0.375	0057 G04 0.0 0.75 0.375	0066 H04 0.0 0.875 0.375	0075 I04 0.0 1.0 0.375
05	0004 A05 0.0 0.0 0.5	0013 B05 0.0 0.125 0.5	0022 C05 0.0 0.25 0.5	0031 D05 0.0 0.375 0.5	0040 E05 0.0 0.5 0.5	0049 F05 0.0 0.625 0.5	0058 G05 0.0 0.75 0.5	0067 H05 0.0 0.875 0.5	0076 I05 0.0 1.0 0.5
06	0005 A06 0.0 0.0 0.625	0014 B06 0.0 0.125 0.625	0023 C06 0.0 0.25 0.625	0032 D06 0.0 0.375 0.625	0041 E06 0.0 0.5 0.625	0050 F06 0.0 0.625 0.625	0059 G06 0.0 0.75 0.625	0068 H06 0.0 0.875 0.625	0077 I06 0.0 1.0 0.625
07	0006 A07 0.0 0.0 0.75	0015 B07 0.0 0.125 0.75	0024 C07 0.0 0.25 0.75	0033 D07 0.0 0.375 0.75	0042 E07 0.0 0.5 0.75	0051 F07 0.0 0.625 0.75	0060 G07 0.0 0.75 0.75	0069 H07 0.0 0.875 0.75	0078 I07 0.0 1.0 0.75
08	0007 A08 0.0 0.0 0.875	0016 B08 0.0 0.125 0.875	0025 C08 0.0 0.25 0.875	0034 D08 0.0 0.375 0.875	0043 E08 0.0 0.5 0.875	0052 F08 0.0 0.625 0.875	0061 G08 0.0 0.75 0.875	0070 H08 0.0 0.875 0.875	0079 I08 0.0 1.0 0.875
09	0008 A09 0.0 0.0 1.0	0017 B09 0.0 0.125 1.0	0026 C09 0.0 0.25 1.0	0035 D09 0.0 0.375 1.0	0044 E09 0.0 0.5 1.0	0053 F09 0.0 0.625 1.0	0062 G09 0.0 0.75 1.0	0071 H09 0.0 0.875 1.0	0080 I09 0.0 1.0 1.0
10	0243 A10 0.375 0.0 0.0	0252 B10 0.375 0.125 0.0	0261 C10 0.375 0.25 0.0	0270 D10 0.375 0.375 0.0	0279 E10 0.375 0.5 0.0	0288 F10 0.375 0.625 0.0	0297 G10 0.375 0.75 0.0	0306 H10 0.375 0.875 0.0	0315 I10 0.375 1.0 0.0
11	0244 A11 0.375 0.0 0.125	0253 B11 0.375 0.125 0.125	0262 C11 0.375 0.25 0.125	0271 D11 0.375 0.375 0.125	0280 E11 0.375 0.5 0.125	0289 F11 0.375 0.625 0.125	0298 G11 0.375 0.75 0.125	0307 H11 0.375 0.875 0.125	0316 I11 0.375 1.0 0.125
12	0245 A12 0.375 0.0 0.25	0254 B12 0.375 0.125 0.25	0263 C12 0.375 0.25 0.25	0272 D12 0.375 0.375 0.25	0281 E12 0.375 0.5 0.25	0290 F12 0.375 0.625 0.25	0299 G12 0.375 0.75 0.25	0308 H12 0.375 0.875 0.25	0317 I12 0.375 1.0 0.25
13	0246 A13 0.375 0.0 0.375	0255 B13 0.375 0.125 0.375	0264 C13 0.375 0.25 0.375	0273 D13 0.375 0.375 0.375	0282 E13 0.375 0.5 0.375	0291 F13 0.375 0.625 0.375	0300 G13 0.375 0.75 0.375	0309 H13 0.375 0.875 0.375	0318 I13 0.375 1.0 0.375
14	0247 A14 0.375 0.0 0.5	0256 B14 0.375 0.125 0.5	0265 C14 0.375 0.25 0.5	0274 D14 0.375 0.375 0.5	0283 E14 0.375 0.5 0.5	0292 F14 0.375 0.625 0.5	0301 G14 0.375 0.75 0.5	0310 H14 0.375 0.875 0.5	0319 I14 0.375 1.0 0.5
15	0248 A15 0.375 0.0 0.625	0257 B15 0.375 0.125 0.625	0266 C15 0.375 0.25 0.625	0275 D15 0.375 0.375 0.625	0284 E15 0.375 0.5 0.625	0293 F15 0.375 0.625 0.625	0302 G15 0.375 0.75 0.625	0311 H15 0.375 0.875 0.625	0320 I15 0.375 1.0 0.625
16	0249 A16 0.375 0.0 0.75	0258 B16 0.375 0.125 0.75	0267 C16 0.375 0.25 0.75	0276 D16 0.375 0.375 0.75	0285 E16 0.375 0.5 0.75	0294 F16 0.375 0.625 0.75	0303 G16 0.375 0.75 0.75	0312 H16 0.375 0.875 0.75	0321 I16 0.375 1.0 0.75
17	0250 A17 0.375 0.0 0.875	0259 B17 0.375 0.125 0.875	0268 C17 0.375 0.25 0.875	0277 D17 0.375 0.375 0.875	0286 E17 0.375 0.5 0.875	0295 F17 0.375 0.625 0.875	0304 G17 0.375 0.75 0.875	0313 H17 0.375 0.875 0.875	0322 I17 0.375 1.0 0.875
18	0251 A18 0.375 0.0 1.0	0260 B18 0.375 0.125 1.0	0269 C18 0.375 0.25 1.0	0278 D18 0.375 0.375 1.0	0287 E18 0.375 0.5 1.0	0296 F18 0.375 0.625 1.0	0305 G18 0.375 0.75 1.0	0314 H18 0.375 0.875 1.0	0323 I18 0.375 1.0 1.0
19	0486 A19 0.75 0.0 0.0	0495 B19 0.75 0.125 0.0	0504 C19 0.75 0.25 0.0	0513 D19 0.75 0.375 0.0	0522 E19 0.75 0.5 0.0	0531 F19 0.75 0.625 0.0	0540 G19 0.75 0.75 0.0	0549 H19 0.75 0.875 0.0	0558 I19 0.75 1.0 0.0
20	0487 A20 0.75 0.0 0.125	0496 B20 0.75 0.125 0.125	0505 C20 0.75 0.25 0.125	0514 D20 0.75 0.375 0.125	0523 E20 0.75 0.5 0.125	0532 F20 0.75 0.625 0.125	0541 G20 0.75 0.75 0.125	0550 H20 0.75 0.875 0.125	0559 I20 0.75 1.0 0.125
21	0488 A21 0.75 0.0 0.25	0497 B21 0.75 0.125 0.25	0506 C21 0.75 0.25 0.25	0515 D21 0.75 0.375 0.25	0524 E21 0.75 0.5 0.25	0533 F21 0.75 0.625 0.25	0542 G21 0.75 0.75 0.25	0551 H21 0.75 0.875 0.25	0560 I21 0.75 1.0 0.25
22	0489 A22 0.75 0.0 0.375	0498 B22 0.75 0.125 0.375	0507 C22 0.75 0.25 0.375	0516 D22 0.75 0.375 0.375	0525 E22 0.75 0.5 0.375	0534 F22 0.75 0.625 0.375	0543 G22 0.75 0.75 0.375	0552 H22 0.75 0.875 0.375	0561 I22 0.75 1.0 0.375
23	0490 A23 0.75 0.0 0.5	0499 B23 0.75 0.125 0.5	0508 C23 0.75 0.25 0.5	0517 D23 0.75 0.375 0.5	0526 E23 0.75 0.5 0.5	0535 F23 0.75 0.625 0.5	0544 G23 0.75 0.75 0.5	0553 H23 0.75 0.875 0.5	0562 I23 0.75 1.0 0.5
24	0491 A24 0.75 0.0 0.625	0500 B24 0.75 0.125 0.625	0509 C24 0.75 0.25 0.625	0518 D24 0.75 0.375 0.625	0527 E24 0.75 0.5 0.625	0536 F24 0.75 0.625 0.625	0545 G24 0.75 0.75 0.625	0554 H24 0.75 0.875 0.625	0563 I24 0.75 1.0 0.625
25	0492 A25 0.75 0.0 0.75	0501 B25 0.75 0.125 0.75	0510 C25 0.75 0.25 0.75	0519 D25 0.75 0.375 0.75	0528 E25 0.75 0.5 0.75	0537 F25 0.75 0.625 0.75	0546 G25 0.75 0.75 0.75	0555 H25 0.75 0.875 0.75	0564 I25 0.75 1.0 0.75
26	0493 A26 0.75 0.0 0.875	0502 B26 0.75 0.125 0.875	0511 C26 0.75 0.25 0.875	0520 D26 0.75 0.375 0.875	0529 E26 0.75 0.5 0.875	0538 F26 0.75 0.625 0.875	0547 G26 0.75 0.75 0.875	0556 H26 0.75 0.875 0.875	0565 I26 0.75 1.0 0.875
27	0494 A27 0.75 0.0 1.0	0503 B27 0.75 0.125 1.0	0512 C27 0.75 0.25 1.0	0521 D27 0.75 0.375 1.0	0530 E27 0.75 0.5 1.0	0539 F27 0.75 0.625 1.0	0548 G27 0.75 0.75 1.0	0557 H27 0.75 0.875 1.0	0566 I27 0.75 1.0 1.0

	J	K	L	M	N	O	P	Q	R
01	0081 J01 0.125 0.0 0.0	0090 K01 0.125 0.125 0.0	0099 L01 0.125 0.25 0.0	0108 M01 0.125 0.375 0.0	0117 N01 0.125 0.5 0.0	0126 O01 0.125 0.625 0.0	0135 P01 0.125 0.75 0.0	0144 Q01 0.125 0.875 0.0	0153 R01 0.125 1.0 0.0
02	0082 J02 0.125 0.0 0.125	0091 K02 0.125 0.125 0.125	0100 L02 0.125 0.25 0.125	0109 M02 0.125 0.375 0.125	0118 N02 0.125 0.5 0.125	0127 O02 0.125 0.625 0.125	0136 P02 0.125 0.75 0.125	0145 Q02 0.125 0.875 0.125	0154 R02 0.125 1.0 0.125
03	0083 J03 0.125 0.0 0.25	0092 K03 0.125 0.125 0.25	0101 L03 0.125 0.25 0.25	0110 M03 0.125 0.375 0.25	0119 N03 0.125 0.5 0.25	0128 O03 0.125 0.625 0.25	0137 P03 0.125 0.75 0.25	0146 Q03 0.125 0.875 0.25	0155 R03 0.125 1.0 0.25
04	0084 J04 0.125 0.0 0.375	0093 K04 0.125 0.125 0.375	0102 L04 0.125 0.25 0.375	0111 M04 0.125 0.375 0.375	0120 N04 0.125 0.5 0.375	0129 O04 0.125 0.625 0.375	0138 P04 0.125 0.75 0.375	0147 Q04 0.125 0.875 0.375	0156 R04 0.125 1.0 0.375
05	0085 J05 0.125 0.0 0.5	0094 K05 0.125 0.125 0.5	0103 L05 0.125 0.25 0.5	0112 M05 0.125 0.375 0.5	0121 N05 0.125 0.5 0.5	0130 O05 0.125 0.625 0.5	0139 P05 0.125 0.75 0.5	0148 Q05 0.125 0.875 0.5	0157 R05 0.125 1.0 0.5
06	0086 J06 0.125 0.0 0.625	0095 K06 0.125 0.125 0.625	0104 L06 0.125 0.25 0.625	0113 M06 0.125 0.375 0.625	0122 N06 0.125 0.5 0.625	0131 O06 0.125 0.625 0.625	0140 P06 0.125 0.75 0.625	0149 Q06 0.125 0.875 0.625	0158 R06 0.125 1.0 0.625
07	0087 J07 0.125 0.0 0.75	0096 K07 0.125 0.125 0.75	0105 L07 0.125 0.25 0.75	0114 M07 0.125 0.375 0.75	0123 N07 0.125 0.5 0.75	0132 O07 0.125 0.625 0.75	0141 P07 0.125 0.75 0.75	0150 Q07 0.125 0.875 0.75	0159 R07 0.125 1.0 0.75
08	0088 J08 0.125 0.0 0.875	0097 K08 0.125 0.125 0.875	0106 L08 0.125 0.25 0.875	0115 M08 0.125 0.375 0.875	0124 N08 0.125 0.5 0.875	0133 O08 0.125 0.625 0.875	0142 P08 0.125 0.75 0.875	0151 Q08 0.125 0.875 0.875	0160 R08 0.125 1.0 0.875
09	0089 J09 0.125 0.0 1.0	0098 K09 0.125 0.125 1.0	0107 L09 0.125 0.25 1.0	0116 M09 0.125 0.375 1.0	0125 N09 0.125 0.5 1.0	0134 O09 0.125 0.625 1.0	0143 P09 0.125 0.75 1.0	0152 Q09 0.125 0.875 1.0	0161 R09 0.125 1.0 1.0
10	0324 J10 0.5 0.0 0.0	0333 K10 0.5 0.125 0.0	0342 L10 0.5 0.25 0.0	0351 M10 0.5 0.375 0.0	0360 N10 0.5 0.5 0.0	0369 O10 0.5 0.625 0.0	0378 P10 0.5 0.75 0.0	0387 Q10 0.5 0.875 0.0	0396 R10 0.5 1.0 0.0
11	0325 J11 0.5 0.0 0.125	0334 K11 0.5 0.125 0.125	0343 L11 0.5 0.25 0.125	0352 M11 0.5 0.375 0.125	0361 N11 0.5 0.5 0.125	0370 O11 0.5 0.625 0.125	0379 P11 0.5 0.75 0.125	0388 Q11 0.5 0.875 0.125	0397 R11 0.5 1.0 0.125
12	0326 J12 0.5 0.0 0.25	0335 K12 0.5 0.125 0.25	0344 L12 0.5 0.25 0.25	0353 M12 0.5 0.375 0.25	0362 N12 0.5 0.5 0.25	0371 O12 0.5 0.625 0.25	0380 P12 0.5 0.75 0.25	0389 Q12 0.5 0.875 0.25	0398 R12 0.5 1.0 0.25
13	0327 J13 0.5 0.0 0.375	0336 K13 0.5 0.125 0.375	0345 L13 0.5 0.25 0.375	0354 M13 0.5 0.375 0.375	0363 N13 0.5 0.5 0.375	0372 O13 0.5 0.625 0.375	0381 P13 0.5 0.75 0.375	0390 Q13 0.5 0.875 0.375	0399 R13 0.5 1.0 0.375
14	0328 J14 0.5 0.0 0.5	0337 K14 0.5 0.125 0.5	0346 L14 0.5 0.25 0.5	0355 M14 0.5 0.375 0.5	0364 N14 0.5 0.5 0.5	0373 O14 0.5 0.625 0.5	0382 P14 0.5 0.75 0.5	0391 Q14 0.5 0.875 0.5	0400 R14 0.5 1.0 0.5
15	0329 J15 0.5 0.0 0.625	0338 K15 0.5 0.125 0.625	0347 L15 0.5 0.25 0.625	0356 M15 0.5 0.375 0.625	0365 N15 0.5 0.5 0.625	0374 O15 0.5 0.625 0.625	0383 P15 0.5 0.75 0.625	0392 Q15 0.5 0.875 0.625	0401 R15 0.5 1.0 0.625
16	0330 J16 0.5 0.0 0.75	0339 K16 0.5 0.125 0.75	0348 L16 0.5 0.25 0.75	0357 M16 0.5 0.375 0.75	0366 N16 0.5 0.5 0.75	0375 O16 0.5 0.625 0.75	0384 P16 0.5 0.75 0.75	0393 Q16 0.5 0.875 0.75	0402 R16 0.5 1.0 0.75
17	0331 J17 0.5 0.0 0.875	0340 K17 0.5 0.125 0.875	0349 L17 0.5 0.25 0.875	0358 M17 0.5 0.375 0.875	0367 N17 0.5 0.5 0.875	0376 O17 0.5 0.625 0.875	0385 P17 0.5 0.75 0.875	0394 Q17 0.5 0.875 0.875	0403 R17 0.5 1.0 0.875
18	0332 J18 0.5 0.0 1.0	0341 K18 0.5 0.125 1.0	0350 L18 0.5 0.25 1.0	0359 M18 0.5 0.375 1.0	0368 N18 0.5 0.5 1.0	0377 O18 0.5 0.625 1.0	0386 P18 0.5 0.75 1.0	0395 Q18 0.5 0.875 1.0	0404 R18 0.5 1.0 1.0
19	0567 J19 0.875 0.0 0.0	0576 K19 0.875 0.125 0.0	0585 L19 0.875 0.25 0.0	0594 M19 0.875 0.375 0.0	0603 N19 0.875 0.5 0.0	0612 O19 0.875 0.625 0.0	0621 P19 0.875 0.75 0.0	0630 Q19 0.875 0.875 0.0	0639 R19 0.875 1.0 0.0
20	0568 J20 0.875 0.0 0.125	0577 K20 0.875 0.125 0.125	0586 L20 0.875 0.25 0.125	0595 M20 0.875 0.375 0.125	0604 N20 0.875 0.5 0.125	0613 O20 0.875 0.625 0.125	0622 P20 0.875 0.75 0.125	0631 Q20 0.875 0.875 0.125	0640 R20 0.875 1.0 0.125
21	0569 J21 0.875 0.0 0.25	0578 K21 0.875 0.125 0.25	0587 L21 0.875 0.25 0.25	0596 M21 0.875 0.375 0.25	0605 N21 0.875 0.5 0.25	0614 O21 0.875 0.625 0.25	0623 P21 0.875 0.75 0.25	0632 Q21 0.875 0.875 0.25	0641 R21 0.875 1.0 0.25
22	0570 J22 0.875 0.0 0.375	0579 K22 0.875 0.125 0.375	0588 L22 0.875 0.25 0.375	0597 M22 0.875 0.375 0.375	0606 N22 0.875 0.5 0.375	0615 O22 0.875 0.625 0.375	0624 P22 0.875 0.75 0.375	0633 Q22 0.875 0.875 0.375	0642 R22 0.875 1.0 0.375
23	0571 J23 0.875 0.0 0.5	0580 K23 0.875 0.125 0.5	0589 L23 0.875 0.25 0.5	0598 M23 0.875 0.375 0.5	0607 N23 0.875 0.5 0.5	0616 O23 0.875 0.625 0.5	0625 P23 0.875 0.75 0.5	0634 Q23 0.875 0.875 0.5	0643 R23 0.875 1.0 0.5
24	0572 J24 0.875 0.0 0.625	0581 K24 0.875 0.125 0.625	0590 L24 0.875 0.25 0.625	0599 M24 0.875 0.375 0.625	0608 N24 0.875 0.5 0.625	0617 O24 0.875 0.625 0.625	0626 P24 0.875 0.75 0.625	0635 Q24 0.875 0.875 0.625	0644 R24 0.875 1.0 0.625
25	0573 J25 0.875 0.0 0.75	0582 K25 0.875 0.125 0.75	0591 L25 0.875 0.25 0.75	0600 M25 0.875 0.375 0.75	0609 N25 0.875 0.5 0.75	0618 O25 0.875 0.625 0.75	0627 P25 0.875 0.75 0.75	0636 Q25 0.875 0.875 0.75	0645 R25 0.875 1.0 0.75
26	0574 J26 0.875 0.0 0.875	0583 K26 0.875 0.125 0.875	0592 L26 0.875 0.25 0.875	0601 M26 0.875 0.375 0.875	0610 N26 0.875 0.5 0.875	0619 O26 0.875 0.625 0.875	0628 P26 0.875 0.75 0.875	0637 Q26 0.875 0.875 0.875	0646 R26 0.875 1.0 0.875
27	0575 J27 0.875 0.0 1.0	0584 K27 0.875 0.125 1.0	0593 L27 0.875 0.25 1.0	0602 M27 0.875 0.375 1.0	0611 N27 0.875 0.5 1.0	0620 O27 0.875 0.625 1.0	0629 P27 0.875 0.75 1.0	0638 Q27 0.875 0.875 1.0	0647 R27 0.875 1.0 1.0

	S	T	U	V	W	X	Y	Z	a
01	0162 S01 0.25 0.0 0.0	0171 T01 0.25 0.125 0.0	0180 U01 0.25 0.25 0.0	0189 V01 0.25 0.375 0.0	0198 W01 0.25 0.5 0.0	0207 X01 0.25 0.625 0.0	0216 Y01 0.25 0.75 0.0	0225 Z01 0.25 0.875 0.0	0234 a01 0.25 1.0 0.0
02	0163 S02 0.25 0.0 0.125	0172 T02 0.25 0.125 0.125	0181 U02 0.25 0.25 0.125	0190 V02 0.25 0.375 0.125	0199 W02 0.25 0.5 0.125	0208 X02 0.25 0.625 0.125	0217 Y02 0.25 0.75 0.125	0226 Z02 0.25 0.875 0.125	0235 a02 0.25 1.0 0.125
03	0164 S03 0.25 0.0 0.25	0173 T03 0.25 0.125 0.25	0182 U03 0.25 0.25 0.25	0191 V03 0.25 0.375 0.25	0200 W03 0.25 0.5 0.25	0209 X03 0.25 0.625 0.25	0218 Y03 0.25 0.75 0.25	0227 Z03 0.25 0.875 0.25	0236 a03 0.25 1.0 0.25
04	0165 S04 0.25 0.0 0.375	0174 T04 0.25 0.125 0.375	0183 U04 0.25 0.25 0.375	0192 V04 0.25 0.375 0.375	0201 W04 0.25 0.5 0.375	0210 X04 0.25 0.625 0.375	0219 Y04 0.25 0.75 0.375	0228 Z04 0.25 0.875 0.375	0237 a04 0.25 1.0 0.375
05	0166 S05 0.25 0.0 0.5	0175 T05 0.25 0.125 0.5	0184 U05 0.25 0.25 0.5	0193 V05 0.25 0.375 0.5	0202 W05 0.25 0.5 0.5	0211 X05 0.25 0.625 0.5	0220 Y05 0.25 0.75 0.5	0229 Z05 0.25 0.875 0.5	0238 a05 0.25 1.0 0.5
06	0167 S06 0.25 0.0 0.625	0176 T06 0.25 0.125 0.625	0185 U06 0.25 0.25 0.625	0194 V06 0.25 0.375 0.625	0203 W06 0.25 0.5 0.625	0212 X06 0.25 0.625 0.625	0221 Y06 0.25 0.75 0.625	0230 Z06 0.25 0.875 0.625	0239 a06 0.25 1.0 0.625
07	0168 S07 0.25 0.0 0.75	0177 T07 0.25 0.125 0.75	0186 U07 0.25 0.25 0.75	0195 V07 0.25 0.375 0.75	0204 W07 0.25 0.5 0.75	0213 X07 0.25 0.625 0.75	0222 Y07 0.25 0.75 0.75	0231 Z07 0.25 0.875 0.75	0240 a07 0.25 1.0 0.75
08	0169 S08 0.25 0.0 0.875	0178 T08 0.25 0.125 0.875	0187 U08 0.25 0.25 0.875	0196 V08 0.25 0.375 0.875	0205 W08 0.25 0.5 0.875	0214 X08 0.25 0.625 0.875	0223 Y08 0.25 0.75 0.875	0232 Z08 0.25 0.875 0.875	0241 a08 0.25 1.0 0.875
09	0170 S09 0.25 0.0 1.0	0179 T09 0.25 0.125 1.0	0188 U09 0.25 0.25 1.0	0197 V09 0.25 0.375 1.0	0206 W09 0.25 0.5 1.0	0215 X09 0.25 0.625 1.0	0224 Y09 0.25 0.75 1.0	0233 Z09 0.25 0.875 1.0	0242 a09 0.25 1.0 1.0
10	0405 S10 0.625 0.0 0.0	0414 T10 0.625 0.125 0.0	0423 U10 0.625 0.25 0.0	0432 V10 0.625 0.375 0.0	0441 W10 0.625 0.5 0.0	0450 X10 0.625 0.625 0.0	0459 Y10 0.625 0.75 0.0	0468 Z10 0.625 0.875 0.0	0477 a10 0.625 1.0 0.0
11	0406 S11 0.625 0.0 0.125	0415 T11 0.625 0.125 0.125	0424 U11 0.625 0.25 0.125	0433 V11 0.625 0.375 0.125	0442 W11 0.625 0.5 0.125	0451 X11 0.625 0.625 0.125	0460 Y11 0.625 0.75 0.125	0469 Z11 0.625 0.875 0.125	0478 a11 0.625 1.0 0.125
12	0407 S12 0.625 0.0 0.25	0416 T12 0.625 0.125 0.25	0425 U12 0.625 0.25 0.25	0434 V12 0.625 0.375 0.25	0443 W12 0.625 0.5 0.25	0452 X12 0.625 0.625 0.25	0461 Y12 0.625 0.75 0.25	0470 Z12 0.625 0.875 0.25	0479 a12 0.625 1.0 0.25
13	0408 S13 0.625 0.0 0.375	0417 T13 0.625 0.125 0.375	0426 U13 0.625 0.25 0.375	0435 V13 0.625 0.375 0.375	0444 W13 0.625 0.5 0.375	0453 X13 0.625 0.625 0.375	0462 Y13 0.625 0.75 0.375	0471 Z13 0.625 0.875 0.375	0480 a13 0.625 1.0 0.375
14	0409 S14 0.625 0.0 0.5	0418 T14 0.625 0.125 0.5	0427 U14 0.625 0.25 0.5	0436 V14 0.625 0.375 0.5	0445 W14 0.625 0.5 0.5	0454 X14 0.625 0.625 0.5	0463 Y14 0.625 0.75 0.5	0472 Z14 0.625 0.875 0.5	0481 a14 0.625 1.0 0.5
15	0410 S15 0.625 0.0 0.625	0419 T15 0.625 0.125 0.625	0428 U15 0.625 0.25 0.625	0437 V15 0.625 0.375 0.625	0446 W15 0.625 0.5 0.625	0455 X15 0.625 0.625 0.625	0464 Y15 0.625 0.75 0.625	0473 Z15 0.625 0.875 0.625	0482 a15 0.625 1.0 0.625
16	0411 S16 0.625 0.0 0.75	0420 T16 0.625 0.125 0.75	0429 U16 0.625 0.25 0.75	0438 V16 0.625 0.375 0.75	0447 W16 0.625 0.5 0.75	0456 X16 0.625 0.625 0.75	0465 Y16 0.625 0.75 0.75	0474 Z16 0.625 0.875 0.75	0483 a16 0.625 1.0 0.75
17	0412 S17 0.625 0.0 0.875	0421 T17 0.625 0.125 0.875	0430 U17 0.625 0.25 0.875	0439 V17 0.625 0.375 0.875	0448 W17 0.625 0.5 0.875	0457 X17 0.625 0.625 0.875	0466 Y17 0.625 0.75 0.875	0475 Z17 0.625 0.875 0.875	0484 a17 0.625 1.0 0.875
18	0413 S18 0.625 0.0 1.0	0422 T18 0.625 0.125 1.0	0431 U18 0.625 0.25 1.0	0440 V18 0.625 0.375 1.0	0449 W18 0.625 0.5 1.0	0458 X18 0.625 0.625 1.0	0467 Y18 0.625 0.75 1.0	0476 Z18 0.625 0.875 1.0	0485 a18 0.625 1.0 1.0
19	0648 S19 1.0 0.0 0.0	0657 T19 1.0 0.125 0.0	0666 U19 1.0 0.25 0.0	0675 V19 1.0 0.375 0.0	0684 W19 1.0 0.5 0.0	0693 X19 1.0 0.625 0.0	0702 Y19 1.0 0.75 0.0	0711 Z19 1.0 0.875 0.0	0720 a19 1.0 1.0 0.0
20	0649 S20 1.0 0.0 0.125	0658 T20 1.0 0.125 0.125	0667 U20 1.0 0.25 0.125	0676 V20 1.0 0.375 0.125	0685 W20 1.0 0.5 0.125	0694 X20 1.0 0.625 0.125	0703 Y20 1.0 0.75 0.125	0712 Z20 1.0 0.875 0.125	0721 a20 1.0 1.0 0.125
21	0650 S21 1.0 0.0 0.25	0659 T21 1.0 0.125 0.25	0668 U21 1.0 0.25 0.25	0677 V21 1.0 0.375 0.25	0686 W21 1.0 0.5 0.25	0695 X21 1.0 0.625 0.25	0704 Y21 1.0 0.75 0.25	0713 Z21 1.0 0.875 0.25	0722 a21 1.0 1.0 0.25
22	0651 S22 1.0 0.0 0.375	0660 T22 1.0 0.125 0.375	0669 U22 1.0 0.25 0.375	0678 V22 1.0 0.375 0.375	0687 W22 1.0 0.5 0.375	0696 X22 1.0 0.625 0.375	0705 Y22 1.0 0.75 0.375	0714 Z22 1.0 0.875 0.375	0723 a22 1.0 1.0 0.375
23	0652 S23 1.0 0.0 0.5	0661 T23 1.0 0.125 0.5	0670 U23 1.0 0.25 0.5	0679 V23 1.0 0.375 0.5	0688 W23 1.0 0.5 0.5	0697 X23 1.0 0.625 0.5	0706 Y23 1.0 0.75 0.5	0715 Z23 1.0 0.875 0.5	0724 a23 1.0 1.0 0.5
24	0653 S24 1.0 0.0 0.625	0662 T24 1.0 0.125 0.625	0671 U24 1.0 0.25 0.625	0680 V24 1.0 0.375 0.625	0689 W24 1.0 0.5 0.625	0698 X24 1.0 0.625 0.625	0707 Y24 1.0 0.75 0.625	0716 Z24 1.0 0.875 0.625	0725 a24 1.0 1.0 0.625
25	0654 S25 1.0 0.0 0.75	0663 T25 1.0 0.125 0.75	0672 U25 1.0 0.25 0.75	0681 V25 1.0 0.375 0.75	0690 W25 1.0 0.5 0.75	0699 X25 1.0 0.625 0.75	0708 Y25 1.0 0.75 0.75	0717 Z25 1.0 0.875 0.75	0726 a25 1.0 1.0 0.75
26	0655 S26 1.0 0.0 0.875	0664 T26 1.0 0.125 0.875	0673 U26 1.0 0.25 0.875	0682 V26 1.0 0.375 0.875	0691 W26 1.0 0.5 0.875	0700 X26 1.0 0.625 0.875	0709 Y26 1.0 0.75 0.875	0718 Z26 1.0 0.875 0.875	0727 a26 1.0 1.0 0.875
27	0656 S27 1.0 0.0 1.0	0665 T27 1.0 0.125 1.0	0674 U27 1.0 0.25 1.0	0683 V27 1.0 0.375 1.0	0692 W27 1.0 0.5 1.0	0701 X27 1.0 0.625 1.0	0710 Y27 1.0 0.75 1.0	0719 Z27 1.0 0.875 1.0	0728 a27 1.0 1.0 1.0

	b	c	d	e	f	g	h	i	j
01	729 b01 1.0 1.0 1.0	738 c01 1.0 0.875 0.875	747 d01 1.0 0.75 0.75	756 e01 1.0 0.625 0.625	765 f01 1.0 0.5 0.5	774 g01 1.0 0.375 0.375	783 h01 1.0 0.25 0.25	792 i01 1.0 0.125 0.125	801 j01 1.0 0.0 0.0
02	730 b02 0.875 1.0 1.0	739 c02 0.875 0.875 0.875	748 d02 0.875 0.75 0.75	757 e02 0.875 0.625 0.625	766 f02 0.875 0.5 0.5	775 g02 0.875 0.375 0.375	784 h02 0.875 0.25 0.25	793 i02 0.875 0.125 0.125	802 j02 0.875 0.0 0.0
03	731 b03 0.75 1.0 1.0	740 c03 0.75 0.875 0.875	749 d03 0.75 0.75 0.75	758 e03 0.75 0.625 0.625	767 f03 0.75 0.5 0.5	776 g03 0.75 0.375 0.375	785 h03 0.75 0.25 0.25	794 i03 0.75 0.125 0.125	803 j03 0.75 0.0 0.0
04	732 b04 0.625 1.0 1.0	741 c04 0.625 0.875 0.875	750 d04 0.625 0.75 0.75	759 e04 0.625 0.625 0.625	768 f04 0.625 0.5 0.5	777 g04 0.625 0.375 0.375	786 h04 0.625 0.25 0.25	795 i04 0.625 0.125 0.125	804 j04 0.625 0.0 0.0
05	733 b05 0.5 1.0 1.0	742 c05 0.5 0.875 0.875	751 d05 0.5 0.75 0.75	760 e05 0.5 0.625 0.625	769 f05 0.5 0.5 0.5	778 g05 0.5 0.375 0.375	787 h05 0.5 0.25 0.25	796 i05 0.5 0.125 0.125	805 j05 0.5 0.0 0.0
06	734 b06 0.375 1.0 1.0	743 c06 0.375 0.875 0.875	752 d06 0.375 0.75 0.75	761 e06 0.375 0.625 0.625	770 f06 0.375 0.5 0.5	779 g06 0.375 0.375 0.375	788 h06 0.375 0.25 0.25	797 i06 0.375 0.125 0.125	806 j06 0.375 0.0 0.0
07	735 b07 0.25 1.0 1.0	744 c07 0.25 0.875 0.875	753 d07 0.25 0.75 0.75	762 e07 0.25 0.625 0.625	771 f07 0.25 0.5 0.5	780 g07 0.25 0.375 0.375	789 h07 0.25 0.25 0.25	798 i07 0.25 0.125 0.125	807 j07 0.25 0.0 0.0
08	736 b08 0.125 1.0 1.0	745 c08 0.125 0.875 0.875	754 d08 0.125 0.75 0.75	763 e08 0.125 0.625 0.625	772 f08 0.125 0.5 0.5	781 g08 0.125 0.375 0.375	790 h08 0.125 0.25 0.25	799 i08 0.125 0.125 0.125	808 j08 0.125 0.0 0.0
09	737 b09 0.0 1.0 1.0	746 c09 0.0 0.875 0.875	755 d09 0.0 0.75 0.75	764 e09 0.0 0.625 0.625	773 f09 0.0 0.5 0.5	782 g09 0.0 0.375 0.375	791 h09 0.0 0.25 0.25	800 i09 0.0 0.125 0.125	809 j09 0.0 0.0 0.0
10	810 b10 1.0 1.0 1.0	819 c10 1.0 1.0 0.875	828 d10 1.0 1.0 0.75	837 e10 1.0 1.0 0.625	846 f10 1.0 1.0 0.5	855 g10 1.0 1.0 0.375	864 h10 1.0 1.0 0.25	873 i10 1.0 1.0 0.125	882 j10 1.0 1.0 0.0
11	811 b11 0.875 0.875 1.0	820 c11 0.875 0.875 0.875	829 d11 0.875 0.875 0.75	838 e11 0.875 0.875 0.625	847 f11 0.875 0.875 0.5	856 g11 0.875 0.875 0.375	865 h11 0.875 0.875 0.25	874 i11 0.875 0.875 0.125	883 j11 0.875 0.875 0.0
12	812 b12 0.75 0.75 1.0	821 c12 0.75 0.75 0.875	830 d12 0.75 0.75 0.75	839 e12 0.75 0.75 0.625	848 f12 0.75 0.75 0.5	857 g12 0.75 0.75 0.375	866 h12 0.75 0.75 0.25	875 i12 0.75 0.75 0.125	884 j12 0.75 0.75 0.0
13	813 b13 0.625 0.625 1.0	822 c13 0.625 0.625 0.875	831 d13 0.625 0.625 0.75	840 e13 0.625 0.625 0.625	849 f13 0.625 0.625 0.5	858 g13 0.625 0.625 0.375	867 h13 0.625 0.625 0.25	876 i13 0.625 0.625 0.125	885 j13 0.625 0.625 0.0
14	814 b14 0.5 0.5 1.0	823 c14 0.5 0.5 0.875	832 d14 0.5 0.5 0.75	841 e14 0.5 0.5 0.625	850 f14 0.5 0.5 0.5	859 g14 0.5 0.5 0.375	868 h14 0.5 0.5 0.25	877 i14 0.5 0.5 0.125	886 j14 0.5 0.5 0.0
15	815 b15 0.375 0.375 1.0	824 c15 0.375 0.375 0.875	833 d15 0.375 0.375 0.75	842 e15 0.375 0.375 0.625	851 f15 0.375 0.375 0.5	860 g15 0.375 0.375 0.375	869 h15 0.375 0.375 0.25	878 i15 0.375 0.375 0.125	887 j15 0.375 0.375 0.0
16	816 b16 0.25 0.25 1.0	825 c16 0.25 0.25 0.875	834 d16 0.25 0.25 0.75	843 e16 0.25 0.25 0.625	852 f16 0.25 0.25 0.5	861 g16 0.25 0.25 0.375	870 h16 0.25 0.25 0.25	879 i16 0.25 0.25 0.125	888 j16 0.25 0.25 0.0
17	817 b17 0.125 0.125 1.0	826 c17 0.125 0.125 0.875	835 d17 0.125 0.125 0.75	844 e17 0.125 0.125 0.625	853 f17 0.125 0.125 0.5	862 g17 0.125 0.125 0.375	871 h17 0.125 0.125 0.25	880 i17 0.125 0.125 0.125	889 j17 0.125 0.125 0.0
18	818 b18 0.0 0.0 1.0	827 c18 0.0 0.0 0.875	836 d18 0.0 0.0 0.75	845 e18 0.0 0.0 0.625	854 f18 0.0 0.0 0.5	863 g18 0.0 0.0 0.375	872 h18 0.0 0.0 0.25	881 i18 0.0 0.0 0.125	890 j18 0.0 0.0 0.0
19	891 b19 1.0 1.0 1.0	900 c19 0.875 1.0 0.875	909 d19 0.75 1.0 0.75	918 e19 0.625 1.0 0.625	927 f19 0.5 1.0 0.5	936 g19 0.375 1.0 0.375	945 h19 0.25 1.0 0.25	954 i19 0.125 1.0 0.125	963 j19 0.0 1.0 0.0
20	892 b20 1.0 0.875 1.0	901 c20 0.875 0.875 0.875	910 d20 0.75 0.875 0.75	919 e20 0.625 0.875 0.625	928 f20 0.5 0.875 0.5	937 g20 0.375 0.875 0.375	946 h20 0.25 0.875 0.25	955 i20 0.125 0.875 0.125	964 j20 0.0 0.875 0.0
21	893 b21 1.0 0.75 1.0	902 c21 0.875 0.75 0.875	911 d21 0.75 0.75 0.75	920 e21 0.625 0.75 0.625	929 f21 0.5 0.75 0.5	938 g21 0.375 0.75 0.375	947 h21 0.25 0.75 0.25	956 i21 0.125 0.75 0.125	965 j21 0.0 0.75 0.0
22	894 b22 1.0 0.625 1.0	903 c22 0.875 0.625 0.875	912 d22 0.75 0.625 0.75	921 e22 0.625 0.625 0.625	930 f22 0.5 0.625 0.5	939 g22 0.375 0.625 0.375	948 h22 0.25 0.625 0.25	957 i22 0.125 0.625 0.125	966 j22 0.0 0.625 0.0
23	895 b23 1.0 0.5 1.0	904 c23 0.875 0.5 0.875	913 d23 0.75 0.5 0.75	922 e23 0.625 0.5 0.625	931 f23 0.5 0.5 0.5	940 g23 0.375 0.5 0.375	949 h23 0.25 0.5 0.25	958 i23 0.125 0.5 0.125	967 j23 0.0 0.5 0.0
24	896 b24 1.0 0.375 1.0	905 c24 0.875 0.375 0.875	914 d24 0.75 0.375 0.75	923 e24 0.625 0.375 0.625	932 f24 0.5 0.375 0.5	941 g24 0.375 0.375 0.375	950 h24 0.25 0.375 0.25	959 i24 0.125 0.375 0.125	968 j24 0.0 0.375 0.0
25	897 b25 1.0 0.25 1.0	906 c25 0.875 0.25 0.875	915 d25 0.75 0.25 0.75	924 e25 0.625 0.25 0.625	933 f25 0.5 0.25 0.5	942 g25 0.375 0.25 0.375	951 h25 0.25 0.25 0.25	960 i25 0.125 0.25 0.125	969 j25 0.0 0.25 0.0
26	898 b26 1.0 0.125 1.0	907 c26 0.875 0.125 0.875	916 d26 0.75 0.125 0.75	925 e26 0.625 0.125 0.625	934 f26 0.5 0.125 0.5	943 g26 0.375 0.125 0.375	952 h26 0.25 0.125 0.25	961 i26 0.125 0.125 0.125	970 j26 0.0 0.125 0.0
27	899 b27 1.0 0.0 1.0	908 c27 0.875 0.0 0.875	917 d27 0.75 0.0 0.75	926 e27 0.625 0.0 0.625	935 f27 0.5 0.0 0.5	944 g27 0.375 0.0 0.375	953 h27 0.25 0.0 0.25	962 i27 0.125 0.0 0.125	971 j27 0.0 0.0 0.0

	k	l	m	n
01	0972 k01 n*=1.0 000n* setcmyk	0981 l01 w*=0.0 w* setgray	0990 m01 n*=1.0 nnn0* setcmyk	0999 n01 w*=0.0 www* setrgb
02	0973 k02 n*=0.875 000n* setcmyk	0982 l02 w*=0.125 w* setgray	0991 m02 n*=0.875 nnn0* setcmyk	1000 n02 w*=0.125 www* setrgb
03	0974 k03 n*=0.75 000n* setcmyk	0983 l03 w*=0.25 w* setgray	0992 m03 n*=0.75 nnn0* setcmyk	1001 n03 w*=0.25 www* setrgb
04	0975 k04 n*=0.625 000n* setcmyk	0984 l04 w*=0.375 w* setgray	0993 m04 n*=0.625 nnn0* setcmyk	1002 n04 w*=0.375 www* setrgb
05	0976 k05 n*=0.5 000n* setcmyk	0985 l05 w*=0.5 w* setgray	0994 m05 n*=0.5 nnn0* setcmyk	1003 n05 w*=0.5 www* setrgb
06	0977 k06 n*=0.375 000n* setcmyk	0986 l06 w*=0.625 w* setgray	0995 m06 n*=0.375 nnn0* setcmyk	1004 n06 w*=0.625 www* setrgb
07	0978 k07 n*=0.25 000n* setcmyk	0987 l07 w*=0.75 w* setgray	0996 m07 n*=0.25 nnn0* setcmyk	1005 n07 w*=0.75 www* setrgb
08	0979 k08 n*=0.125 000n* setcmyk	0988 l08 w*=0.875 w* setgray	0997 m08 n*=0.125 nnn0* setcmyk	1006 n08 w*=0.875 www* setrgb
09	0980 k09 n*=0.0 000n* setcmyk	0989 l09 w*=1.0 w* setgray	0998 m09 n*=0.0 nnn0* setcmyk	1007 n09 w*=1.0 www* setrgb
10	1008 k10 n*=1.0 000n* setcmyk	1024 l10 w*=0.0 w* setgray	1040 m10 n*=1.0 nnn0* setcmyk	1056 n10 w*=0.0 www* setrgb
11	1009 k11 n*=0.933 000n* setcmyk	1025 l11 w*=0.066 w* setgray	1041 m11 n*=0.933 nnn0* setcmyk	1057 n11 w*=0.066 www* setrgb
12	1010 k12 n*=0.866 000n* setcmyk	1026 l12 w*=0.133 w* setgray	1042 m12 n*=0.866 nnn0* setcmyk	1058 n12 w*=0.133 www* setrgb
13	1011 k13 n*=0.8 000n* setcmyk	1027 l13 w*=0.2 w* setgray	1043 m13 n*=0.8 nnn0* setcmyk	1059 n13 w*=0.2 www* setrgb
14	1012 k14 n*=0.733 000n* setcmyk	1028 l14 w*=0.266 w* setgray	1044 m14 n*=0.733 nnn0* setcmyk	1060 n14 w*=0.266 www* setrgb
15	1013 k15 n*=0.666 000n* setcmyk	1029 l15 w*=0.333 w* setgray	1045 m15 n*=0.666 nnn0* setcmyk	1061 n15 w*=0.333 www* setrgb
16	1014 k16 n*=0.6 000n* setcmyk	1030 l16 w*=0.4 w* setgray	1046 m16 n*=0.6 nnn0* setcmyk	1062 n16 w*=0.4 www* setrgb
17	1015 k17 n*=0.533 000n* setcmyk	1031 l17 w*=0.466 w* setgray	1047 m17 n*=0.533 nnn0* setcmyk	1063 n17 w*=0.466 www* setrgb
18	1016 k18 n*=0.466 000n* setcmyk	1032 l18 w*=0.533 w* setgray	1048 m18 n*=0.466 nnn0* setcmyk	1064 n18 w*=0.533 www* setrgb
19	1017 k19 n*=0.399 000n* setcmyk	1033 l19 w*=0.6 w* setgray	1049 m19 n*=0.399 nnn0* setcmyk	1065 n19 w*=0.6 www* setrgb
20	1018 k20 n*=0.333 000n* setcmyk	1034 l20 w*=0.666 w* setgray	1050 m20 n*=0.333 nnn0* setcmyk	1066 n20 w*=0.666 www* setrgb
21	1019 k21 n*=0.266 000n* setcmyk	1035 l21 w*=0.733 w* setgray	1051 m21 n*=0.266 nnn0* setcmyk	1067 n21 w*=0.733 www* setrgb
22	1020 k22 n*=0.199 000n* setcmyk	1036 l22 w*=0.8 w* setgray	1052 m22 n*=0.199 nnn0* setcmyk	1068 n22 w*=0.8 www* setrgb
23	1021 k23 n*=0.133 000n* setcmyk	1037 l23 w*=0.866 w* setgray	1053 m23 n*=0.133 nnn0* setcmyk	1069 n23 w*=0.866 www* setrgb
24	1022 k24 n*=0.066 000n* setcmyk	1038 l24 w*=0.933 w* setgray	1054 m24 n*=0.066 nnn0* setcmyk	1070 n24 w*=0.933 www* setrgb
25	1023 k25 n*=0.0 000n* setcmyk	1039 l25 w*=1.0 w* setgray	1055 m25 n*=0.0 nnn0* setcmyk	1071 n25 w*=1.0 www* setrgb
26	1072 k26 0.0 0.0 0.0	1074 l26 1.0 0.0 0.0	1076 m26 1.0 1.0 0.0	1078 n26 0.0 1.0 0.0
27	1073 k27 1.0 1.0 1.0	1075 l27 0.0 1.0 1.0	1077 m27 0.0 0.0 1.0	1079 n27 1.0 0.0 1.0

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 2/4, ORS18

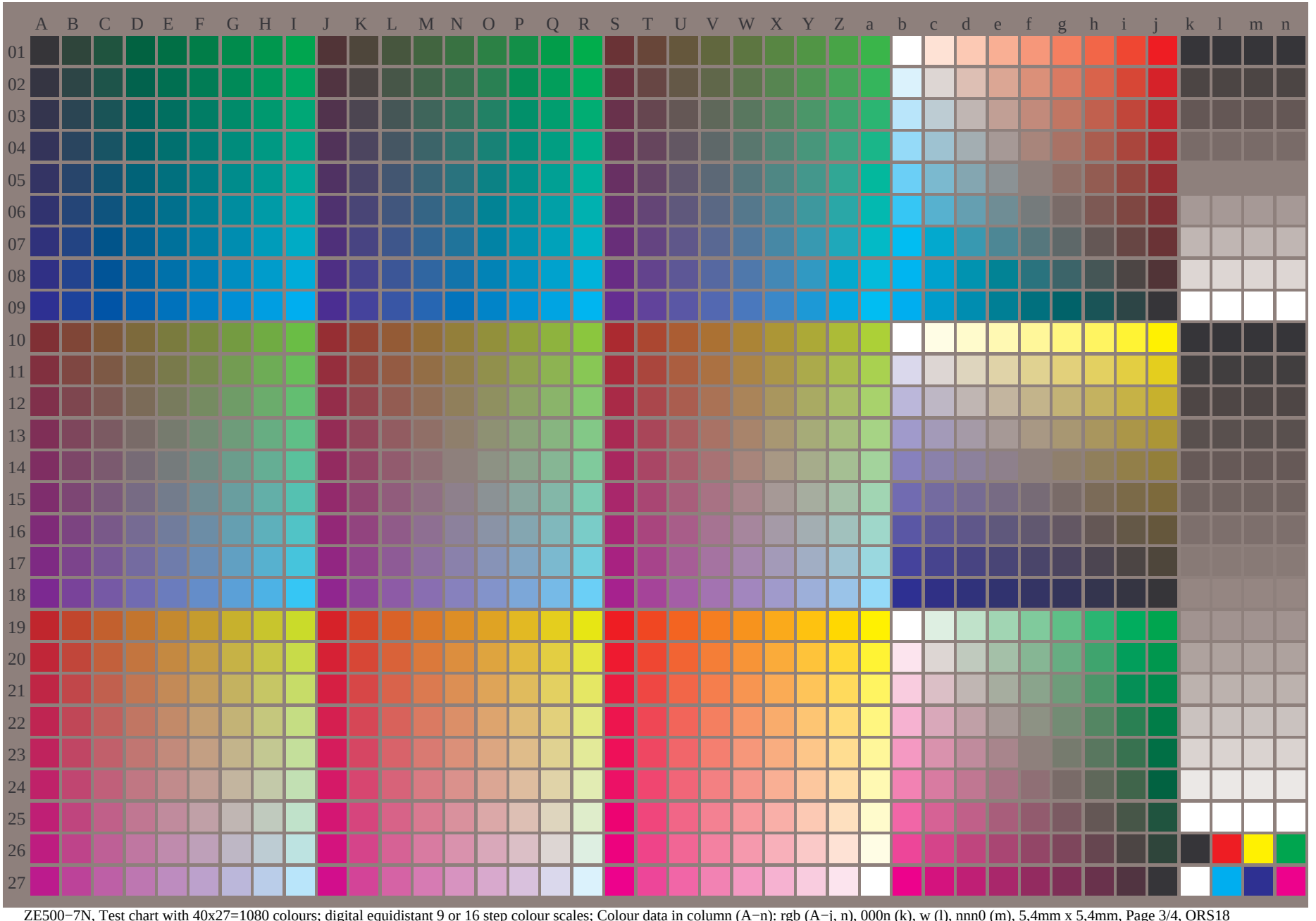
BAM-test chart ZE50; Colorimetric systems, Page 2/28 input: *000n / w / nnn0 / rgb set...*
40x27=1080 colours with data: *rgb / w / cmy0 / 000n / LAB** output: no change compared to input

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems



ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 3/4, ORS18

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I
01	1.0 A01 1.0 1.0 0.0	1.0 B01 0.875 1.0 0.0	1.0 C01 0.75 1.0 0.0	1.0 D01 0.625 1.0 0.0	1.0 E01 0.5 1.0 0.0	1.0 F01 0.375 1.0 0.0	1.0 G01 0.25 1.0 0.0	1.0 H01 0.125 1.0 0.0	1.0 I01 0.0 1.0 0.0
02	1.0 A02 1.0 0.875 0.0	1.0 B02 0.875 0.875 0.0	1.0 C02 0.75 0.875 0.0	1.0 D02 0.625 0.875 0.0	1.0 E02 0.5 0.875 0.0	1.0 F02 0.375 0.875 0.0	1.0 G02 0.25 0.875 0.0	1.0 H02 0.125 0.875 0.0	1.0 I02 0.0 0.875 0.0
03	1.0 A03 1.0 0.75 0.0	1.0 B03 0.875 0.75 0.0	1.0 C03 0.75 0.75 0.0	1.0 D03 0.625 0.75 0.0	1.0 E03 0.5 0.75 0.0	1.0 F03 0.375 0.75 0.0	1.0 G03 0.25 0.75 0.0	1.0 H03 0.125 0.75 0.0	1.0 I03 0.0 0.75 0.0
04	1.0 A04 1.0 0.625 0.0	1.0 B04 0.875 0.625 0.0	1.0 C04 0.75 0.625 0.0	1.0 D04 0.625 0.625 0.0	1.0 E04 0.5 0.625 0.0	1.0 F04 0.375 0.625 0.0	1.0 G04 0.25 0.625 0.0	1.0 H04 0.125 0.625 0.0	1.0 I04 0.0 0.625 0.0
05	1.0 A05 1.0 0.5 0.0	1.0 B05 0.875 0.5 0.0	1.0 C05 0.75 0.5 0.0	1.0 D05 0.625 0.5 0.0	1.0 E05 0.5 0.5 0.0	1.0 F05 0.375 0.5 0.0	1.0 G05 0.25 0.5 0.0	1.0 H05 0.125 0.5 0.0	1.0 I05 0.0 0.5 0.0
06	1.0 A06 1.0 0.375 0.0	1.0 B06 0.875 0.375 0.0	1.0 C06 0.75 0.375 0.0	1.0 D06 0.625 0.375 0.0	1.0 E06 0.5 0.375 0.0	1.0 F06 0.375 0.375 0.0	1.0 G06 0.25 0.375 0.0	1.0 H06 0.125 0.375 0.0	1.0 I06 0.0 0.375 0.0
07	1.0 A07 1.0 0.25 0.0	1.0 B07 0.875 0.25 0.0	1.0 C07 0.75 0.25 0.0	1.0 D07 0.625 0.25 0.0	1.0 E07 0.5 0.25 0.0	1.0 F07 0.375 0.25 0.0	1.0 G07 0.25 0.25 0.0	1.0 H07 0.125 0.25 0.0	1.0 I07 0.0 0.25 0.0
08	1.0 A08 1.0 0.125 0.0	1.0 B08 0.875 0.125 0.0	1.0 C08 0.75 0.125 0.0	1.0 D08 0.625 0.125 0.0	1.0 E08 0.5 0.125 0.0	1.0 F08 0.375 0.125 0.0	1.0 G08 0.25 0.125 0.0	1.0 H08 0.125 0.125 0.0	1.0 I08 0.0 0.125 0.0
09	1.0 A09 1.0 0.0 0.0	1.0 B09 0.875 0.0 0.0	1.0 C09 0.75 0.0 0.0	1.0 D09 0.625 0.0 0.0	1.0 E09 0.5 0.0 0.0	1.0 F09 0.375 0.0 0.0	1.0 G09 0.25 0.0 0.0	1.0 H09 0.125 0.0 0.0	1.0 I09 0.0 0.0 0.0
10	0.625 A10 1.0 1.0 0.0	0.625 B10 0.875 1.0 0.0	0.625 C10 0.75 1.0 0.0	0.625 D10 0.625 1.0 0.0	0.625 E10 0.5 1.0 0.0	0.625 F10 0.375 1.0 0.0	0.625 G10 0.25 1.0 0.0	0.625 H10 0.125 1.0 0.0	0.625 I10 0.0 1.0 0.0
11	0.625 A11 1.0 0.875 0.0	0.625 B11 0.875 0.875 0.0	0.625 C11 0.75 0.875 0.0	0.625 D11 0.625 0.875 0.0	0.625 E11 0.5 0.875 0.0	0.625 F11 0.375 0.875 0.0	0.625 G11 0.25 0.875 0.0	0.625 H11 0.125 0.875 0.0	0.625 I11 0.0 0.875 0.0
12	0.625 A12 1.0 0.75 0.0	0.625 B12 0.875 0.75 0.0	0.625 C12 0.75 0.75 0.0	0.625 D12 0.625 0.75 0.0	0.625 E12 0.5 0.75 0.0	0.625 F12 0.375 0.75 0.0	0.625 G12 0.25 0.75 0.0	0.625 H12 0.125 0.75 0.0	0.625 I12 0.0 0.75 0.0
13	0.625 A13 1.0 0.625 0.0	0.625 B13 0.875 0.625 0.0	0.625 C13 0.75 0.625 0.0	0.625 D13 0.625 0.625 0.0	0.625 E13 0.5 0.625 0.0	0.625 F13 0.375 0.625 0.0	0.625 G13 0.25 0.625 0.0	0.625 H13 0.125 0.625 0.0	0.625 I13 0.0 0.625 0.0
14	0.625 A14 1.0 0.5 0.0	0.625 B14 0.875 0.5 0.0	0.625 C14 0.75 0.5 0.0	0.625 D14 0.625 0.5 0.0	0.625 E14 0.5 0.5 0.0	0.625 F14 0.375 0.5 0.0	0.625 G14 0.25 0.5 0.0	0.625 H14 0.125 0.5 0.0	0.625 I14 0.0 0.5 0.0
15	0.625 A15 1.0 0.375 0.0	0.625 B15 0.875 0.375 0.0	0.625 C15 0.75 0.375 0.0	0.625 D15 0.625 0.375 0.0	0.625 E15 0.5 0.375 0.0	0.625 F15 0.375 0.375 0.0	0.625 G15 0.25 0.375 0.0	0.625 H15 0.125 0.375 0.0	0.625 I15 0.0 0.375 0.0
16	0.625 A16 1.0 0.25 0.0	0.625 B16 0.875 0.25 0.0	0.625 C16 0.75 0.25 0.0	0.625 D16 0.625 0.25 0.0	0.625 E16 0.5 0.25 0.0	0.625 F16 0.375 0.25 0.0	0.625 G16 0.25 0.25 0.0	0.625 H16 0.125 0.25 0.0	0.625 I16 0.0 0.25 0.0
17	0.625 A17 1.0 0.125 0.0	0.625 B17 0.875 0.125 0.0	0.625 C17 0.75 0.125 0.0	0.625 D17 0.625 0.125 0.0	0.625 E17 0.5 0.125 0.0	0.625 F17 0.375 0.125 0.0	0.625 G17 0.25 0.125 0.0	0.625 H17 0.125 0.125 0.0	0.625 I17 0.0 0.125 0.0
18	0.625 A18 1.0 0.0 0.0	0.625 B18 0.875 0.0 0.0	0.625 C18 0.75 0.0 0.0	0.625 D18 0.625 0.0 0.0	0.625 E18 0.5 0.0 0.0	0.625 F18 0.375 0.0 0.0	0.625 G18 0.25 0.0 0.0	0.625 H18 0.125 0.0 0.0	0.625 I18 0.0 0.0 0.0
19	0.25 A19 1.0 1.0 0.0	0.25 B19 0.875 1.0 0.0	0.25 C19 0.75 1.0 0.0	0.25 D19 0.625 1.0 0.0	0.25 E19 0.5 1.0 0.0	0.25 F19 0.375 1.0 0.0	0.25 G19 0.25 1.0 0.0	0.25 H19 0.125 1.0 0.0	0.25 I19 0.0 1.0 0.0
20	0.25 A20 1.0 0.875 0.0	0.25 B20 0.875 0.875 0.0	0.25 C20 0.75 0.875 0.0	0.25 D20 0.625 0.875 0.0	0.25 E20 0.5 0.875 0.0	0.25 F20 0.375 0.875 0.0	0.25 G20 0.25 0.875 0.0	0.25 H20 0.125 0.875 0.0	0.25 I20 0.0 0.875 0.0
21	0.25 A21 1.0 0.75 0.0	0.25 B21 0.875 0.75 0.0	0.25 C21 0.75 0.75 0.0	0.25 D21 0.625 0.75 0.0	0.25 E21 0.5 0.75 0.0	0.25 F21 0.375 0.75 0.0	0.25 G21 0.25 0.75 0.0	0.25 H21 0.125 0.75 0.0	0.25 I21 0.0 0.75 0.0
22	0.25 A22 1.0 0.625 0.0	0.25 B22 0.875 0.625 0.0	0.25 C22 0.75 0.625 0.0	0.25 D22 0.625 0.625 0.0	0.25 E22 0.5 0.625 0.0	0.25 F22 0.375 0.625 0.0	0.25 G22 0.25 0.625 0.0	0.25 H22 0.125 0.625 0.0	0.25 I22 0.0 0.625 0.0
23	0.25 A23 1.0 0.5 0.0	0.25 B23 0.875 0.5 0.0	0.25 C23 0.75 0.5 0.0	0.25 D23 0.625 0.5 0.0	0.25 E23 0.5 0.5 0.0	0.25 F23 0.375 0.5 0.0	0.25 G23 0.25 0.5 0.0	0.25 H23 0.125 0.5 0.0	0.25 I23 0.0 0.5 0.0
24	0.25 A24 1.0 0.375 0.0	0.25 B24 0.875 0.375 0.0	0.25 C24 0.75 0.375 0.0	0.25 D24 0.625 0.375 0.0	0.25 E24 0.5 0.375 0.0	0.25 F24 0.375 0.375 0.0	0.25 G24 0.25 0.375 0.0	0.25 H24 0.125 0.375 0.0	0.25 I24 0.0 0.375 0.0
25	0.25 A25 1.0 0.25 0.0	0.25 B25 0.875 0.25 0.0	0.25 C25 0.75 0.25 0.0	0.25 D25 0.625 0.25 0.0	0.25 E25 0.5 0.25 0.0	0.25 F25 0.375 0.25 0.0	0.25 G25 0.25 0.25 0.0	0.25 H25 0.125 0.25 0.0	0.25 I25 0.0 0.25 0.0
26	0.25 A26 1.0 0.125 0.0	0.25 B26 0.875 0.125 0.0	0.25 C26 0.75 0.125 0.0	0.25 D26 0.625 0.125 0.0	0.25 E26 0.5 0.125 0.0	0.25 F26 0.375 0.125 0.0	0.25 G26 0.25 0.125 0.0	0.25 H26 0.125 0.125 0.0	0.25 I26 0.0 0.125 0.0
27	0.25 A27 1.0 0.0 0.0	0.25 B27 0.875 0.0 0.0	0.25 C27 0.75 0.0 0.0	0.25 D27 0.625 0.0 0.0	0.25 E27 0.5 0.0 0.0	0.25 F27 0.375 0.0 0.0	0.25 G27 0.25 0.0 0.0	0.25 H27 0.125 0.0 0.0	0.25 I27 0.0 0.0 0.0

	J	K	L	M	N	O	P	Q	R
01	0.875 J01 1.0 1.0 0.0	0.875 K01 0.875 1.0 0.0	0.875 L01 0.75 1.0 0.0	0.875 M01 0.625 1.0 0.0	0.875 N01 0.5 1.0 0.0	0.875 O01 0.375 1.0 0.0	0.875 P01 0.25 1.0 0.0	0.875 Q01 0.125 1.0 0.0	0.875 R01 0.0 1.0 0.0
02	0.875 J02 1.0 0.875 0.0	0.875 K02 0.875 0.875 0.0	0.875 L02 0.75 0.875 0.0	0.875 M02 0.625 0.875 0.0	0.875 N02 0.5 0.875 0.0	0.875 O02 0.375 0.875 0.0	0.875 P02 0.25 0.875 0.0	0.875 Q02 0.125 0.875 0.0	0.875 R02 0.0 0.875 0.0
03	0.875 J03 1.0 0.75 0.0	0.875 K03 0.875 0.75 0.0	0.875 L03 0.75 0.75 0.0	0.875 M03 0.625 0.75 0.0	0.875 N03 0.5 0.75 0.0	0.875 O03 0.375 0.75 0.0	0.875 P03 0.25 0.75 0.0	0.875 Q03 0.125 0.75 0.0	0.875 R03 0.0 0.75 0.0
04	0.875 J04 1.0 0.625 0.0	0.875 K04 0.875 0.625 0.0	0.875 L04 0.75 0.625 0.0	0.875 M04 0.625 0.625 0.0	0.875 N04 0.5 0.625 0.0	0.875 O04 0.375 0.625 0.0	0.875 P04 0.25 0.625 0.0	0.875 Q04 0.125 0.625 0.0	0.875 R04 0.0 0.625 0.0
05	0.875 J05 1.0 0.5 0.0	0.875 K05 0.875 0.5 0.0	0.875 L05 0.75 0.5 0.0	0.875 M05 0.625 0.5 0.0	0.875 N05 0.5 0.5 0.0	0.875 O05 0.375 0.5 0.0	0.875 P05 0.25 0.5 0.0	0.875 Q05 0.125 0.5 0.0	0.875 R05 0.0 0.5 0.0
06	0.875 J06 1.0 0.375 0.0	0.875 K06 0.875 0.375 0.0	0.875 L06 0.75 0.375 0.0	0.875 M06 0.625 0.375 0.0	0.875 N06 0.5 0.375 0.0	0.875 O06 0.375 0.375 0.0	0.875 P06 0.25 0.375 0.0	0.875 Q06 0.125 0.375 0.0	0.875 R06 0.0 0.375 0.0
07	0.875 J07 1.0 0.25 0.0	0.875 K07 0.875 0.25 0.0	0.875 L07 0.75 0.25 0.0	0.875 M07 0.625 0.25 0.0	0.875 N07 0.5 0.25 0.0	0.875 O07 0.375 0.25 0.0	0.875 P07 0.25 0.25 0.0	0.875 Q07 0.125 0.25 0.0	0.875 R07 0.0 0.25 0.0
08	0.875 J08 1.0 0.125 0.0	0.875 K08 0.875 0.125 0.0	0.875 L08 0.75 0.125 0.0	0.875 M08 0.625 0.125 0.0	0.875 N08 0.5 0.125 0.0	0.875 O08 0.375 0.125 0.0	0.875 P08 0.25 0.125 0.0	0.875 Q08 0.125 0.125 0.0	0.875 R08 0.0 0.125 0.0
09	0.875 J09 1.0 0.0 0.0	0.875 K09 0.875 0.0 0.0	0.875 L09 0.75 0.0 0.0	0.875 M09 0.625 0.0 0.0	0.875 N09 0.5 0.0 0.0	0.875 O09 0.375 0.0 0.0	0.875 P09 0.25 0.0 0.0	0.875 Q09 0.125 0.0 0.0	0.875 R09 0.0 0.0 0.0
10	0.5 J10 1.0 1.0 0.0	0.5 K10 0.875 1.0 0.0	0.5 L10 0.75 1.0 0.0	0.5 M10 0.625 1.0 0.0	0.5 N10 0.5 1.0 0.0	0.5 O10 0.375 1.0 0.0	0.5 P10 0.25 1.0 0.0	0.5 Q10 0.125 1.0 0.0	0.5 R10 0.0 1.0 0.0
11	0.5 J11 1.0 0.875 0.0	0.5 K11 0.875 0.875 0.0	0.5 L11 0.75 0.875 0.0	0.5 M11 0.625 0.875 0.0	0.5 N11 0.5 0.875 0.0	0.5 O11 0.375 0.875 0.0	0.5 P11 0.25 0.875 0.0	0.5 Q11 0.125 0.875 0.0	0.5 R11 0.0 0.875 0.0
12	0.5 J12 1.0 0.75 0.0	0.5 K12 0.875 0.75 0.0	0.5 L12 0.75 0.75 0.0	0.5 M12 0.625 0.75 0.0	0.5 N12 0.5 0.75 0.0	0.5 O12 0.375 0.75 0.0	0.5 P12 0.25 0.75 0.0	0.5 Q12 0.125 0.75 0.0	0.5 R12 0.0 0.75 0.0
13	0.5 J13 1.0 0.625 0.0	0.5 K13 0.875 0.625 0.0	0.5 L13 0.75 0.625 0.0	0.5 M13 0.625 0.625 0.0	0.5 N13 0.5 0.625 0.0	0.5 O13 0.375 0.625 0.0	0.5 P13 0.25 0.625 0.0	0.5 Q13 0.125 0.625 0.0	0.5 R13 0.0 0.625 0.0
14	0.5 J14 1.0 0.5 0.0	0.5 K14 0.875 0.5 0.0	0.5 L14 0.75 0.5 0.0	0.5 M14 0.625 0.5 0.0	0.5 N14 0.5 0.5 0.0	0.5 O14 0.375 0.5 0.0	0.5 P14 0.25 0.5 0.0	0.5 Q14 0.125 0.5 0.0	0.5 R14 0.0 0.5 0.0
15	0.5 J15 1.0 0.375 0.0	0.5 K15 0.875 0.375 0.0	0.5 L15 0.75 0.375 0.0	0.5 M15 0.625 0.375 0.0	0.5 N15 0.5 0.375 0.0	0.5 O15 0.375 0.375 0.0	0.5 P15 0.25 0.375 0.0	0.5 Q15 0.125 0.375 0.0	0.5 R15 0.0 0.375 0.0
16	0.5 J16 1.0 0.25 0.0	0.5 K16 0.875 0.25 0.0	0.5 L16 0.75 0.25 0.0	0.5 M16 0.625 0.25 0.0	0.5 N16 0.5 0.25 0.0	0.5 O16 0.375 0.25 0.0	0.5 P16 0.25 0.25 0.0	0.5 Q16 0.125 0.25 0.0	0.5 R16 0.0 0.25 0.0
17	0.5 J17 1.0 0.125 0.0	0.5 K17 0.875 0.125 0.0	0.5 L17 0.75 0.125 0.0	0.5 M17 0.625 0.125 0.0	0.5 N17 0.5 0.125 0.0	0.5 O17 0.375 0.125 0.0	0.5 P17 0.25 0.125 0.0	0.5 Q17 0.125 0.125 0.0	0.5 R17 0.0 0.125 0.0
18	0.5 J18 1.0 0.0 0.0	0.5 K18 0.875 0.0 0.0	0.5 L18 0.75 0.0 0.0	0.5 M18 0.625 0.0 0.0	0.5 N18 0.5 0.0 0.0	0.5 O18 0.375 0.0 0.0	0.5 P18 0.25 0.0 0.0	0.5 Q18 0.125 0.0 0.0	0.5 R18 0.0 0.0 0.0
19	0.125 J19 1.0 1.0 0.0	0.125 K19 0.875 1.0 0.0	0.125 L19 0.75 1.0 0.0	0.125 M19 0.625 1.0 0.0	0.125 N19 0.5 1.0 0.0	0.125 O19 0.375 1.0 0.0	0.125 P19 0.25 1.0 0.0	0.125 Q19 0.125 1.0 0.0	0.125 R19 0.0 1.0 0.0
20	0.125 J20 1.0 0.875 0.0	0.125 K20 0.875 0.875 0.0	0.125 L20 0.75 0.875 0.0	0.125 M20 0.625 0.875 0.0	0.125 N20 0.5 0.875 0.0	0.125 O20 0.375 0.875 0.0	0.125 P20 0.25 0.875 0.0	0.125 Q20 0.125 0.875 0.0	0.125 R20 0.0 0.875 0.0
21	0.125 J21 1.0 0.75 0.0	0.125 K21 0.875 0.75 0.0	0.125 L21 0.75 0.75 0.0	0.125 M21 0.625 0.75 0.0	0.125 N21 0.5 0.75 0.0	0.125 O21 0.375 0.75 0.0	0.125 P21 0.25 0.75 0.0	0.125 Q21 0.125 0.75 0.0	0.125 R21 0.0 0.75 0.0
22	0.125 J22 1.0 0.625 0.0	0.125 K22 0.875 0.625 0.0	0.125 L22 0.75 0.625 0.0	0.125 M22 0.625 0.625 0.0	0.125 N22 0.5 0.625 0.0	0.125 O22 0.375 0.625 0.0	0.125 P22 0.25 0.625 0.0	0.125 Q22 0.125 0.625 0.0	0.125 R22 0.0 0.625 0.0
23	0.125 J23 1.0 0.5 0.0	0.125 K23 0.875 0.5 0.0	0.125 L23 0.75 0.5 0.0	0.125 M23 0.625 0.5 0.0	0.125 N23 0.5 0.5 0.0	0.125 O23 0.375 0.5 0.0	0.125 P23 0.25 0.5 0.0	0.125 Q23 0.125 0.5 0.0	0.125 R23 0.0 0.5 0.0
24	0.125 J24 1.0 0.375 0.0	0.125 K24 0.875 0.375 0.0	0.125 L24 0.75 0.375 0.0	0.125 M24 0.625 0.375 0.0	0.125 N24 0.5 0.375 0.0	0.125 O24 0.375 0.375 0.0	0.125 P24 0.25 0.375 0.0	0.125 Q24 0.125 0.375 0.0	0.125 R24 0.0 0.375 0.0
25	0.125 J25 1.0 0.25 0.0	0.125 K25 0.875 0.25 0.0	0.125 L25 0.75 0.25 0.0	0.125 M25 0.625 0.25 0.0	0.125 N25 0.5 0.25 0.0	0.125 O25 0.375 0.25 0.0	0.125 P25 0.25 0.25 0.0	0.125 Q25 0.125 0.25 0.0	0.125 R25 0.0 0.25 0.0
26	0.125 J26 1.0 0.125 0.0	0.125 K26 0.875 0.125 0.0	0.125 L26 0.75 0.125 0.0	0.125 M26 0.625 0.125 0.0	0.125 N26 0.5 0.125 0.0	0.125 O26 0.375 0.125 0.0	0.125 P26 0.25 0.125 0.0	0.125 Q26 0.125 0.125 0.0	0.125 R26 0.0 0.125 0.0
27	0.125 J27 1.0 0.0 0.0	0.125 K27 0.875 0.0 0.0	0.125 L27 0.75 0.0 0.0	0.125 M27 0.625 0.0 0.0	0.125 N27 0.5 0.0 0.0	0.125 O27 0.375 0.0 0.0	0.125 P27 0.25 0.0 0.0	0.125 Q27 0.125 0.0 0.0	0.125 R27 0.0 0.0 0.0

	S	T	U	V	W	X	Y	Z	a
01	0.75 S01 1.0 1.0 0.0	0.75 T01 0.875 1.0 0.0	0.75 U01 0.75 1.0 0.0	0.75 V01 0.625 1.0 0.0	0.75 W01 0.5 1.0 0.0	0.75 X01 0.375 1.0 0.0	0.75 Y01 0.25 1.0 0.0	0.75 Z01 0.125 1.0 0.0	0.75 a01 0.0 1.0 0.0
02	0.75 S02 1.0 0.875 0.0	0.75 T02 0.875 0.875 0.0	0.75 U02 0.75 0.875 0.0	0.75 V02 0.625 0.875 0.0	0.75 W02 0.5 0.875 0.0	0.75 X02 0.375 0.875 0.0	0.75 Y02 0.25 0.875 0.0	0.75 Z02 0.125 0.875 0.0	0.75 a02 0.0 0.875 0.0
03	0.75 S03 1.0 0.75 0.0	0.75 T03 0.875 0.75 0.0	0.75 U03 0.75 0.75 0.0	0.75 V03 0.625 0.75 0.0	0.75 W03 0.5 0.75 0.0	0.75 X03 0.375 0.75 0.0	0.75 Y03 0.25 0.75 0.0	0.75 Z03 0.125 0.75 0.0	0.75 a03 0.0 0.75 0.0
04	0.75 S04 1.0 0.625 0.0	0.75 T04 0.875 0.625 0.0	0.75 U04 0.75 0.625 0.0	0.75 V04 0.625 0.625 0.0	0.75 W04 0.5 0.625 0.0	0.75 X04 0.375 0.625 0.0	0.75 Y04 0.25 0.625 0.0	0.75 Z04 0.125 0.625 0.0	0.75 a04 0.0 0.625 0.0
05	0.75 S05 1.0 0.5 0.0	0.75 T05 0.875 0.5 0.0	0.75 U05 0.75 0.5 0.0	0.75 V05 0.625 0.5 0.0	0.75 W05 0.5 0.5 0.0	0.75 X05 0.375 0.5 0.0	0.75 Y05 0.25 0.5 0.0	0.75 Z05 0.125 0.5 0.0	0.75 a05 0.0 0.5 0.0
06	0.75 S06 1.0 0.375 0.0	0.75 T06 0.875 0.375 0.0	0.75 U06 0.75 0.375 0.0	0.75 V06 0.625 0.375 0.0	0.75 W06 0.5 0.375 0.0	0.75 X06 0.375 0.375 0.0	0.75 Y06 0.25 0.375 0.0	0.75 Z06 0.125 0.375 0.0	0.75 a06 0.0 0.375 0.0
07	0.75 S07 1.0 0.25 0.0	0.75 T07 0.875 0.25 0.0	0.75 U07 0.75 0.25 0.0	0.75 V07 0.625 0.25 0.0	0.75 W07 0.5 0.25 0.0	0.75 X07 0.375 0.25 0.0	0.75 Y07 0.25 0.25 0.0	0.75 Z07 0.125 0.25 0.0	0.75 a07 0.0 0.25 0.0
08	0.75 S08 1.0 0.125 0.0	0.75 T08 0.875 0.125 0.0	0.75 U08 0.75 0.125 0.0	0.75 V08 0.625 0.125 0.0	0.75 W08 0.5 0.125 0.0	0.75 X08 0.375 0.125 0.0	0.75 Y08 0.25 0.125 0.0	0.75 Z08 0.125 0.125 0.0	0.75 a08 0.0 0.125 0.0
09	0.75 S09 1.0 0.0 0.0	0.75 T09 0.875 0.0 0.0	0.75 U09 0.75 0.0 0.0	0.75 V09 0.625 0.0 0.0	0.75 W09 0.5 0.0 0.0	0.75 X09 0.375 0.0 0.0	0.75 Y09 0.25 0.0 0.0	0.75 Z09 0.125 0.0 0.0	0.75 a09 0.0 0.0 0.0
10	0.375 S10 1.0 1.0 0.0	0.375 T10 0.875 1.0 0.0	0.375 U10 0.75 1.0 0.0	0.375 V10 0.625 1.0 0.0	0.375 W10 0.5 1.0 0.0	0.375 X10 0.375 1.0 0.0	0.375 Y10 0.25 1.0 0.0	0.375 Z10 0.125 1.0 0.0	0.375 a10 0.0 1.0 0.0
11	0.375 S11 1.0 0.875 0.0	0.375 T11 0.875 0.875 0.0	0.375 U11 0.75 0.875 0.0	0.375 V11 0.625 0.875 0.0	0.375 W11 0.5 0.875 0.0	0.375 X11 0.375 0.875 0.0	0.375 Y11 0.25 0.875 0.0	0.375 Z11 0.125 0.875 0.0	0.375 a11 0.0 0.875 0.0
12	0.375 S12 1.0 0.75 0.0	0.375 T12 0.875 0.75 0.0	0.375 U12 0.75 0.75 0.0	0.375 V12 0.625 0.75 0.0	0.375 W12 0.5 0.75 0.0	0.375 X12 0.375 0.75 0.0	0.375 Y12 0.25 0.75 0.0	0.375 Z12 0.125 0.75 0.0	0.375 a12 0.0 0.75 0.0
13	0.375 S13 1.0 0.625 0.0	0.375 T13 0.875 0.625 0.0	0.375 U13 0.75 0.625 0.0	0.375 V13 0.625 0.625 0.0	0.375 W13 0.5 0.625 0.0	0.375 X13 0.375 0.625 0.0	0.375 Y13 0.25 0.625 0.0	0.375 Z13 0.125 0.625 0.0	0.375 a13 0.0 0.625 0.0
14	0.375 S14 1.0 0.5 0.0	0.375 T14 0.875 0.5 0.0	0.375 U14 0.75 0.5 0.0	0.375 V14 0.625 0.5 0.0	0.375 W14 0.5 0.5 0.0	0.375 X14 0.375 0.5 0.0	0.375 Y14 0.25 0.5 0.0	0.375 Z14 0.125 0.5 0.0	0.375 a14 0.0 0.5 0.0
15	0.375 S15 1.0 0.375 0.0	0.375 T15 0.875 0.375 0.0	0.375 U15 0.75 0.375 0.0	0.375 V15 0.625 0.375 0.0	0.375 W15 0.5 0.375 0.0	0.375 X15 0.375 0.375 0.0	0.375 Y15 0.25 0.375 0.0	0.375 Z15 0.125 0.375 0.0	0.375 a15 0.0 0.375 0.0
16	0.375 S16 1.0 0.25 0.0	0.375 T16 0.875 0.25 0.0	0.375 U16 0.75 0.25 0.0	0.375 V16 0.625 0.25 0.0	0.375 W16 0.5 0.25 0.0	0.375 X16 0.375 0.25 0.0	0.375 Y16 0.25 0.25 0.0	0.375 Z16 0.125 0.25 0.0	0.375 a16 0.0 0.25 0.0
17	0.375 S17 1.0 0.125 0.0	0.375 T17 0.875 0.125 0.0	0.375 U17 0.75 0.125 0.0	0.375 V17 0.625 0.125 0.0	0.375 W17 0.5 0.125 0.0	0.375 X17 0.375 0.125 0.0	0.375 Y17 0.25 0.125 0.0	0.375 Z17 0.125 0.125 0.0	0.375 a17 0.0 0.125 0.0
18	0.375 S18 1.0 0.0 0.0	0.375 T18 0.875 0.0 0.0	0.375 U18 0.75 0.0 0.0	0.375 V18 0.625 0.0 0.0	0.375 W18 0.5 0.0 0.0	0.375 X18 0.375 0.0 0.0	0.375 Y18 0.25 0.0 0.0	0.375 Z18 0.125 0.0 0.0	0.375 a18 0.0 0.0 0.0
19	0.0 S19 1.0 1.0 0.0	0.0 T19 0.875 1.0 0.0	0.0 U19 0.75 1.0 0.0	0.0 V19 0.625 1.0 0.0	0.0 W19 0.5 1.0 0.0	0.0 X19 0.375 1.0 0.0	0.0 Y19 0.25 1.0 0.0	0.0 Z19 0.125 1.0 0.0	0.0 a19 0.0 1.0 0.0
20	0.0 S20 1.0 0.875 0.0	0.0 T20 0.875 0.875 0.0	0.0 U20 0.75 0.875 0.0	0.0 V20 0.625 0.875 0.0	0.0 W20 0.5 0.875 0.0	0.0 X20 0.375 0.875 0.0	0.0 Y20 0.25 0.875 0.0	0.0 Z20 0.125 0.875 0.0	0.0 a20 0.0 0.875 0.0
21	0.0 S21 1.0 0.75 0.0	0.0 T21 0.875 0.75 0.0	0.0 U21 0.75 0.75 0.0	0.0 V21 0.625 0.75 0.0	0.0 W21 0.5 0.75 0.0	0.0 X21 0.375 0.75 0.0	0.0 Y21 0.25 0.75 0.0	0.0 Z21 0.125 0.75 0.0	0.0 a21 0.0 0.75 0.0
22	0.0 S22 1.0 0.625 0.0	0.0 T22 0.875 0.625 0.0	0.0 U22 0.75 0.625 0.0	0.0 V22 0.625 0.625 0.0	0.0 W22 0.5 0.625 0.0	0.0 X22 0.375 0.625 0.0	0.0 Y22 0.25 0.625 0.0	0.0 Z22 0.125 0.625 0.0	0.0 a22 0.0 0.625 0.0
23	0.0 S23 1.0 0.5 0.0	0.0 T23 0.875 0.5 0.0	0.0 U23 0.75 0.5 0.0	0.0 V23 0.625 0.5 0.0	0.0 W23 0.5 0.5 0.0	0.0 X23 0.375 0.5 0.0	0.0 Y23 0.25 0.5 0.0	0.0 Z23 0.125 0.5 0.0	0.0 a23 0.0 0.5 0.0
24	0.0 S24 1.0 0.375 0.0	0.0 T24 0.875 0.375 0.0	0.0 U24 0.75 0.375 0.0	0.0 V24 0.625 0.375 0.0	0.0 W24 0.5 0.375 0.0	0.0 X24 0.375 0.375 0.0	0.0 Y24 0.25 0.375 0.0	0.0 Z24 0.125 0.375 0.0	0.0 a24 0.0 0.375 0.0
25	0.0 S25 1.0 0.25 0.0	0.0 T25 0.875 0.25 0.0	0.0 U25 0.75 0.25 0.0	0.0 V25 0.625 0.25 0.0	0.0 W25 0.5 0.25 0.0	0.0 X25 0.375 0.25 0.0	0.0 Y25 0.25 0.25 0.0	0.0 Z25 0.125 0.25 0.0	0.0 a25 0.0 0.25 0.0
26	0.0 S26 1.0 0.125 0.0	0.0 T26 0.875 0.125 0.0	0.0 U26 0.75 0.125 0.0	0.0 V26 0.625 0.125 0.0	0.0 W26 0.5 0.125 0.0	0.0 X26 0.375 0.125 0.0	0.0 Y26 0.25 0.125 0.0	0.0 Z26 0.125 0.125 0.0	0.0 a26 0.0 0.125 0.0
27	0.0 S27 1.0 0.0 0.0	0.0 T27 0.875 0.0 0.0	0.0 U27 0.75 0.0 0.0	0.0 V27 0.625 0.0 0.0	0.0 W27 0.5 0.0 0.0	0.0 X27 0.375 0.0 0.0	0.0 Y27 0.25 0.0 0.0	0.0 Z27 0.125 0.0 0.0	0.0 a27 0.0 0.0 0.0

	b	c	d	e	f	g	h	i	j
01	0.0 b01 0.0 0.0 0.0	0.0 c01 0.125 0.125 0.0	0.0 d01 0.25 0.25 0.0	0.0 e01 0.375 0.375 0.0	0.0 f01 0.5 0.5 0.0	0.0 g01 0.625 0.625 0.0	0.0 h01 0.75 0.75 0.0	0.0 i01 0.875 0.875 0.0	0.0 j01 1.0 1.0 0.0
02	0.125 b02 0.0 0.0 0.0	0.125 c02 0.125 0.125 0.0	0.125 d02 0.25 0.25 0.0	0.125 e02 0.375 0.375 0.0	0.125 f02 0.5 0.5 0.0	0.125 g02 0.625 0.625 0.0	0.125 h02 0.75 0.75 0.0	0.125 i02 0.875 0.875 0.0	0.125 j02 1.0 1.0 0.0
03	0.25 b03 0.0 0.0 0.0	0.25 c03 0.125 0.125 0.0	0.25 d03 0.25 0.25 0.0	0.25 e03 0.375 0.375 0.0	0.25 f03 0.5 0.5 0.0	0.25 g03 0.625 0.625 0.0	0.25 h03 0.75 0.75 0.0	0.25 i03 0.875 0.875 0.0	0.25 j03 1.0 1.0 0.0
04	0.375 b04 0.0 0.0 0.0	0.375 c04 0.125 0.125 0.0	0.375 d04 0.25 0.25 0.0	0.375 e04 0.375 0.375 0.0	0.375 f04 0.5 0.5 0.0	0.375 g04 0.625 0.625 0.0	0.375 h04 0.75 0.75 0.0	0.375 i04 0.875 0.875 0.0	0.375 j04 1.0 1.0 0.0
05	0.5 b05 0.0 0.0 0.0	0.5 c05 0.125 0.125 0.0	0.5 d05 0.25 0.25 0.0	0.5 e05 0.375 0.375 0.0	0.5 f05 0.5 0.5 0.0	0.5 g05 0.625 0.625 0.0	0.5 h05 0.75 0.75 0.0	0.5 i05 0.875 0.875 0.0	0.5 j05 1.0 1.0 0.0
06	0.625 b06 0.0 0.0 0.0	0.625 c06 0.125 0.125 0.0	0.625 d06 0.25 0.25 0.0	0.625 e06 0.375 0.375 0.0	0.625 f06 0.5 0.5 0.0	0.625 g06 0.625 0.625 0.0	0.625 h06 0.75 0.75 0.0	0.625 i06 0.875 0.875 0.0	0.625 j06 1.0 1.0 0.0
07	0.75 b07 0.0 0.0 0.0	0.75 c07 0.125 0.125 0.0	0.75 d07 0.25 0.25 0.0	0.75 e07 0.375 0.375 0.0	0.75 f07 0.5 0.5 0.0	0.75 g07 0.625 0.625 0.0	0.75 h07 0.75 0.75 0.0	0.75 i07 0.875 0.875 0.0	0.75 j07 1.0 1.0 0.0
08	0.875 b08 0.0 0.0 0.0	0.875 c08 0.125 0.125 0.0	0.875 d08 0.25 0.25 0.0	0.875 e08 0.375 0.375 0.0	0.875 f08 0.5 0.5 0.0	0.875 g08 0.625 0.625 0.0	0.875 h08 0.75 0.75 0.0	0.875 i08 0.875 0.875 0.0	0.875 j08 1.0 1.0 0.0
09	1.0 b09 0.0 0.0 0.0	1.0 c09 0.125 0.125 0.0	1.0 d09 0.25 0.25 0.0	1.0 e09 0.375 0.375 0.0	1.0 f09 0.5 0.5 0.0	1.0 g09 0.625 0.625 0.0	1.0 h09 0.75 0.75 0.0	1.0 i09 0.875 0.875 0.0	1.0 j09 1.0 1.0 0.0
10	0.0 b10 0.0 0.0 0.0	0.0 c10 0.0 0.125 0.0	0.0 d10 0.0 0.25 0.0	0.0 e10 0.0 0.375 0.0	0.0 f10 0.0 0.5 0.0	0.0 g10 0.0 0.625 0.0	0.0 h10 0.0 0.75 0.0	0.0 i10 0.0 0.875 0.0	0.0 j10 0.0 1.0 0.0
11	0.125 b11 0.125 0.0 0.0	0.125 c11 0.125 0.125 0.0	0.125 d11 0.125 0.25 0.0	0.125 e11 0.125 0.375 0.0	0.125 f11 0.125 0.5 0.0	0.125 g11 0.125 0.625 0.0	0.125 h11 0.125 0.75 0.0	0.125 i11 0.125 0.875 0.0	0.125 j11 0.125 1.0 0.0
12	0.25 b12 0.25 0.0 0.0	0.25 c12 0.25 0.125 0.0	0.25 d12 0.25 0.25 0.0	0.25 e12 0.25 0.375 0.0	0.25 f12 0.25 0.5 0.0	0.25 g12 0.25 0.625 0.0	0.25 h12 0.25 0.75 0.0	0.25 i12 0.25 0.875 0.0	0.25 j12 0.25 1.0 0.0
13	0.375 b13 0.375 0.0 0.0	0.375 c13 0.375 0.125 0.0	0.375 d13 0.375 0.25 0.0	0.375 e13 0.375 0.375 0.0	0.375 f13 0.375 0.5 0.0	0.375 g13 0.375 0.625 0.0	0.375 h13 0.375 0.75 0.0	0.375 i13 0.375 0.875 0.0	0.375 j13 0.375 1.0 0.0
14	0.5 b14 0.5 0.0 0.0	0.5 c14 0.5 0.125 0.0	0.5 d14 0.5 0.25 0.0	0.5 e14 0.5 0.375 0.0	0.5 f14 0.5 0.5 0.0	0.5 g14 0.5 0.625 0.0	0.5 h14 0.5 0.75 0.0	0.5 i14 0.5 0.875 0.0	0.5 j14 0.5 1.0 0.0
15	0.625 b15 0.625 0.0 0.0	0.625 c15 0.625 0.125 0.0	0.625 d15 0.625 0.25 0.0	0.625 e15 0.625 0.375 0.0	0.625 f15 0.625 0.5 0.0	0.625 g15 0.625 0.625 0.0	0.625 h15 0.625 0.75 0.0	0.625 i15 0.625 0.875 0.0	0.625 j15 0.625 1.0 0.0
16	0.75 b16 0.75 0.0 0.0	0.75 c16 0.75 0.125 0.0	0.75 d16 0.75 0.25 0.0	0.75 e16 0.75 0.375 0.0	0.75 f16 0.75 0.5 0.0	0.75 g16 0.75 0.625 0.0	0.75 h16 0.75 0.75 0.0	0.75 i16 0.75 0.875 0.0	0.75 j16 0.75 1.0 0.0
17	0.875 b17 0.875 0.0 0.0	0.875 c17 0.875 0.125 0.0	0.875 d17 0.875 0.25 0.0	0.875 e17 0.875 0.375 0.0	0.875 f17 0.875 0.5 0.0	0.875 g17 0.875 0.625 0.0	0.875 h17 0.875 0.75 0.0	0.875 i17 0.875 0.875 0.0	0.875 j17 0.875 1.0 0.0
18	1.0 b18 1.0 0.0 0.0	1.0 c18 1.0 0.125 0.0	1.0 d18 1.0 0.25 0.0	1.0 e18 1.0 0.375 0.0	1.0 f18 1.0 0.5 0.0	1.0 g18 1.0 0.625 0.0	1.0 h18 1.0 0.75 0.0	1.0 i18 1.0 0.875 0.0	1.0 j18 1.0 1.0 0.0
19	0.0 b19 0.0 0.0 0.0	0.125 c19 0.0 0.125 0.0	0.25 d19 0.0 0.25 0.0	0.375 e19 0.0 0.375 0.0	0.5 f19 0.0 0.5 0.0	0.625 g19 0.0 0.625 0.0	0.75 h19 0.0 0.75 0.0	0.875 i19 0.0 0.875 0.0	1.0 j19 0.0 1.0 0.0
20	0.0 b20 0.125 0.0 0.0	0.125 c20 0.125 0.125 0.0	0.25 d20 0.125 0.25 0.0	0.375 e20 0.125 0.375 0.0	0.5 f20 0.125 0.5 0.0	0.625 g20 0.125 0.625 0.0	0.75 h20 0.125 0.75 0.0	0.875 i20 0.125 0.875 0.0	1.0 j20 0.125 1.0 0.0
21	0.0 b21 0.25 0.0 0.0	0.125 c21 0.25 0.125 0.0	0.25 d21 0.25 0.25 0.0	0.375 e21 0.25 0.375 0.0	0.5 f21 0.25 0.5 0.0	0.625 g21 0.25 0.625 0.0	0.75 h21 0.25 0.75 0.0	0.875 i21 0.25 0.875 0.0	1.0 j21 0.25 1.0 0.0
22	0.0 b22 0.375 0.0 0.0	0.125 c22 0.375 0.125 0.0	0.25 d22 0.375 0.25 0.0	0.375 e22 0.375 0.375 0.0	0.5 f22 0.375 0.5 0.0	0.625 g22 0.375 0.625 0.0	0.75 h22 0.375 0.75 0.0	0.875 i22 0.375 0.875 0.0	1.0 j22 0.375 1.0 0.0
23	0.0 b23 0.5 0.0 0.0	0.125 c23 0.5 0.125 0.0	0.25 d23 0.5 0.25 0.0	0.375 e23 0.5 0.375 0.0	0.5 f23 0.5 0.5 0.0	0.625 g23 0.5 0.625 0.0	0.75 h23 0.5 0.75 0.0	0.875 i23 0.5 0.875 0.0	1.0 j23 0.5 1.0 0.0
24	0.0 b24 0.625 0.0 0.0	0.125 c24 0.625 0.125 0.0	0.25 d24 0.625 0.25 0.0	0.375 e24 0.625 0.375 0.0	0.5 f24 0.625 0.5 0.0	0.625 g24 0.625 0.625 0.0	0.75 h24 0.625 0.75 0.0	0.875 i24 0.625 0.875 0.0	1.0 j24 0.625 1.0 0.0
25	0.0 b25 0.75 0.0 0.0	0.125 c25 0.75 0.125 0.0	0.25 d25 0.75 0.25 0.0	0.375 e25 0.75 0.375 0.0	0.5 f25 0.75 0.5 0.0	0.625 g25 0.75 0.625 0.0	0.75 h25 0.75 0.75 0.0	0.875 i25 0.75 0.875 0.0	1.0 j25 0.75 1.0 0.0
26	0.0 b26 0.875 0.0 0.0	0.125 c26 0.875 0.125 0.0	0.25 d26 0.875 0.25 0.0	0.375 e26 0.875 0.375 0.0	0.5 f26 0.875 0.5 0.0	0.625 g26 0.875 0.625 0.0	0.75 h26 0.875 0.75 0.0	0.875 i26 0.875 0.875 0.0	1.0 j26 0.875 1.0 0.0
27	0.0 b27 1.0 0.0 0.0	0.125 c27 1.0 0.125 0.0	0.25 d27 1.0 0.25 0.0	0.375 e27 1.0 0.375 0.0	0.5 f27 1.0 0.5 0.0	0.625 g27 1.0 0.625 0.0	0.75 h27 1.0 0.75 0.0	0.875 i27 1.0 0.875 0.0	1.0 j27 1.0 1.0 0.0

	k	l	m	n
01	1.0 k01 1.0 1.0 0.0	1.0 l01 1.0 1.0 0.0	1.0 m01 1.0 1.0 0.0	1.0 n01 1.0 1.0 0.0
02	0.875 k02 0.875 0.875 0.0	0.875 l02 0.875 0.875 0.0	0.875 m02 0.875 0.875 0.0	0.875 n02 0.875 0.875 0.0
03	0.75 k03 0.75 0.75 0.0	0.75 l03 0.75 0.75 0.0	0.75 m03 0.75 0.75 0.0	0.75 n03 0.75 0.75 0.0
04	0.625 k04 0.625 0.625 0.0	0.625 l04 0.625 0.625 0.0	0.625 m04 0.625 0.625 0.0	0.625 n04 0.625 0.625 0.0
05	0.5 k05 0.5 0.5 0.0	0.5 l05 0.5 0.5 0.0	0.5 m05 0.5 0.5 0.0	0.5 n05 0.5 0.5 0.0
06	0.375 k06 0.375 0.375 0.0	0.375 l06 0.375 0.375 0.0	0.375 m06 0.375 0.375 0.0	0.375 n06 0.375 0.375 0.0
07	0.25 k07 0.25 0.25 0.0	0.25 l07 0.25 0.25 0.0	0.25 m07 0.25 0.25 0.0	0.25 n07 0.25 0.25 0.0
08	0.125 k08 0.125 0.125 0.0	0.125 l08 0.125 0.125 0.0	0.125 m08 0.125 0.125 0.0	0.125 n08 0.125 0.125 0.0
09	0.0 k09 0.0 0.0 0.0	0.0 l09 0.0 0.0 0.0	0.0 m09 0.0 0.0 0.0	0.0 n09 0.0 0.0 0.0
10	1.0 k10 1.0 1.0 0.0	1.0 l10 1.0 1.0 0.0	1.0 m10 1.0 1.0 0.0	1.0 n10 1.0 1.0 0.0
11	0.933 k11 0.933 0.933 0.0	0.933 l11 0.933 0.933 0.0	0.933 m11 0.933 0.933 0.0	0.933 n11 0.933 0.933 0.0
12	0.866 k12 0.866 0.866 0.0	0.866 l12 0.866 0.866 0.0	0.866 m12 0.866 0.866 0.0	0.866 n12 0.866 0.866 0.0
13	0.8 k13 0.8 0.8 0.0	0.8 l13 0.8 0.8 0.0	0.8 m13 0.8 0.8 0.0	0.8 n13 0.8 0.8 0.0
14	0.733 k14 0.733 0.733 0.0	0.733 l14 0.733 0.733 0.0	0.733 m14 0.733 0.733 0.0	0.733 n14 0.733 0.733 0.0
15	0.666 k15 0.666 0.666 0.0	0.666 l15 0.666 0.666 0.0	0.666 m15 0.666 0.666 0.0	0.666 n15 0.666 0.666 0.0
16	0.6 k16 0.6 0.6 0.0	0.6 l16 0.6 0.6 0.0	0.6 m16 0.6 0.6 0.0	0.6 n16 0.6 0.6 0.0
17	0.533 k17 0.533 0.533 0.0	0.533 l17 0.533 0.533 0.0	0.533 m17 0.533 0.533 0.0	0.533 n17 0.533 0.533 0.0
18	0.466 k18 0.466 0.466 0.0	0.466 l18 0.466 0.466 0.0	0.466 m18 0.466 0.466 0.0	0.466 n18 0.466 0.466 0.0
19	0.399 k19 0.399 0.399 0.0	0.399 l19 0.399 0.399 0.0	0.399 m19 0.399 0.399 0.0	0.399 n19 0.399 0.399 0.0
20	0.333 k20 0.333 0.333 0.0	0.333 l20 0.333 0.333 0.0	0.333 m20 0.333 0.333 0.0	0.333 n20 0.333 0.333 0.0
21	0.266 k21 0.266 0.266 0.0	0.266 l21 0.266 0.266 0.0	0.266 m21 0.266 0.266 0.0	0.266 n21 0.266 0.266 0.0
22	0.199 k22 0.199 0.199 0.0	0.199 l22 0.199 0.199 0.0	0.199 m22 0.199 0.199 0.0	0.199 n22 0.199 0.199 0.0
23	0.133 k23 0.133 0.133 0.0	0.133 l23 0.133 0.133 0.0	0.133 m23 0.133 0.133 0.0	0.133 n23 0.133 0.133 0.0
24	0.066 k24 0.066 0.066 0.0	0.066 l24 0.066 0.066 0.0	0.066 m24 0.066 0.066 0.0	0.066 n24 0.066 0.066 0.0
25	0.0 k25 0.0 0.0 0.0	0.0 l25 0.0 0.0 0.0	0.0 m25 0.0 0.0 0.0	0.0 n25 0.0 0.0 0.0
26	1.0 k26 1.0 1.0 0.0	0.0 l26 1.0 1.0 0.0	0.0 m26 0.0 1.0 0.0	1.0 n26 0.0 1.0 0.0
27	0.0 k27 0.0 0.0 0.0	1.0 l27 0.0 0.0 0.0	1.0 m27 1.0 0.0 0.0	0.0 n27 1.0 0.0 0.0

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 4/4, ORS18

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

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 18.02 0.49 −0.47	0009 B01 22.12 −7.42 4.17	0018 C01 26.23 −15.36 8.82	0027 D01 30.34 −23.29 13.46	0036 E01 34.45 −31.22 18.11	0045 F01 38.57 −39.16 22.76	0054 G01 42.68 −47.09 27.41	0063 H01 46.79 −55.03 32.05	0072 I01 50.9 −62.95 36.7	0081 J01 21.75 8.59 6.09
02	0001 A02 18.98 4.36 −5.95	0010 B02 23.08 −3.38 −5.75	0019 C02 27.2 −11.32 −1.1	0028 D02 31.31 −19.25 3.54	0037 E02 35.42 −27.18 8.19	0046 F02 39.53 −35.12 12.83	0055 G02 43.64 −43.05 17.48	0064 H02 47.75 −50.99 22.13	0073 I02 51.86 −58.91 26.77	0082 J02 21.77 9.82 −1.26
03	0002 A03 19.94 8.23 −11.43	0011 B03 24.05 0.48 −11.23	0020 C03 28.16 −7.27 −11.03	0029 D03 32.27 −15.21 −6.38	0038 E03 36.38 −23.14 −1.74	0047 F03 40.49 −31.08 2.9	0056 G03 44.61 −39.01 7.55	0065 H03 48.72 −46.94 12.2	0074 I03 52.83 −54.87 16.84	0083 J03 22.74 13.69 −6.74
04	0003 A04 20.9 12.1 −16.92	0012 B04 25.01 4.34 −16.72	0021 C04 29.12 −3.41 −16.52	0030 D04 33.24 −11.17 −16.32	0039 E04 37.35 −19.1 −11.67	0048 F04 41.46 −27.03 −7.02	0057 G04 45.57 −34.97 −2.37	0066 H04 49.68 −42.9 2.26	0075 I04 53.79 −50.83 6.91	0084 J04 23.7 17.56 −12.23
05	0004 A05 21.87 15.97 −22.41	0013 B05 25.98 8.21 −22.2	0022 C05 30.09 0.45 −22.0	0031 D05 34.2 −7.3 −21.8	0040 E05 38.31 −15.06 −21.6	0049 F05 42.42 −22.99 −16.95	0058 G05 46.54 −30.92 −12.31	0067 H05 50.65 −38.86 −7.66	0076 I05 54.76 −46.79 −3.01	0085 J05 24.67 21.43 −17.71
06	0005 A06 22.83 19.84 −27.89	0014 B06 26.94 12.08 −27.69	0023 C06 31.05 4.32 −27.49	0032 D06 35.16 −3.43 −27.29	0041 E06 39.28 −11.19 −27.09	0050 F06 43.39 −18.95 −26.89	0059 G06 47.5 −26.88 −22.24	0068 H06 51.61 −34.82 −17.59	0077 I06 55.72 −42.74 −12.95	0086 J06 25.63 25.3 −23.2
07	0006 A07 23.79 23.7 −33.38	0015 B07 27.9 15.95 −33.18	0024 C07 32.02 8.19 −32.98	0033 D07 36.13 0.43 −32.77	0042 E07 40.24 −7.32 −32.57	0051 F07 44.35 −15.08 −32.37	0060 G07 48.47 −22.84 −32.17	0069 H07 52.58 −30.77 −27.52	0078 I07 56.69 −38.7 −22.88	0087 J07 26.59 29.17 −28.69
08	0007 A08 24.76 27.57 −38.86	0016 B08 28.87 19.82 −38.66	0025 C08 32.98 12.06 −38.46	0034 D08 37.09 4.3 −38.26	0043 E08 41.2 −3.45 −38.06	0052 F08 45.32 −11.21 −37.86	0061 G08 49.43 −18.97 −37.66	0070 H08 53.54 −26.73 −37.46	0079 I08 57.65 −34.66 −32.81	0088 J08 27.56 33.04 −34.17
09	0008 A09 25.72 31.44 −44.35	0017 B09 29.83 23.68 −44.14	0026 C09 33.94 15.92 −43.94	0035 D09 38.06 8.16 −43.74	0044 E09 42.17 0.4 −43.54	0053 F09 46.28 −7.35 −43.34	0062 G09 50.39 −15.11 −43.14	0071 H09 54.51 −22.87 −42.94	0080 I09 58.61 −30.62 −42.74	0089 J09 28.52 36.9 −39.65
10	0243 A10 29.23 24.79 19.22	0252 B10 34.53 15.24 24.73	0261 C10 39.84 5.68 30.24	0270 D10 45.14 −3.87 35.76	0279 E10 49.25 −11.8 40.4	0288 F10 53.36 −19.73 45.05	0297 G10 57.47 −27.67 49.7	0306 H10 61.59 −35.6 54.35	0315 I10 65.69 −43.53 58.99	0324 J10 32.97 32.89 25.79
11	0244 A11 29.26 26.03 11.87	0253 B11 35.16 16.51 13.31	0262 C11 40.47 6.95 18.83	0271 D11 45.77 −2.6 24.34	0280 E11 49.88 −10.53 28.99	0289 F11 53.99 −18.46 33.63	0298 G11 58.1 −26.4 38.28	0307 H11 62.22 −34.33 42.93	0316 I11 66.32 −42.26 47.57	0325 J11 33.0 34.13 18.44
12	0245 A12 29.28 27.26 4.51	0254 B12 35.19 17.75 5.95	0263 C12 41.1 8.22 7.4	0272 D12 46.4 −1.32 12.91	0281 E12 50.51 −9.26 17.56	0290 F12 54.62 −17.19 22.21	0299 G12 58.73 −25.13 26.85	0308 H12 62.85 −33.06 31.5	0317 I12 66.95 −40.99 36.15	0326 J12 33.02 35.36 11.08
13	0246 A13 29.3 28.5 −2.84	0255 B13 35.21 18.98 −1.39	0264 C13 41.12 9.46 0.04	0273 D13 47.03 −0.05 1.48	0282 E13 51.14 −7.99 6.13	0291 F13 55.25 −15.92 10.78	0300 G13 59.36 −23.86 15.43	0309 H13 63.48 −31.79 20.08	0318 I13 67.58 −39.72 24.72	0327 J13 33.05 36.6 3.72
14	0247 A14 30.27 32.37 −8.32	0256 B14 36.17 22.85 −6.88	0265 C14 42.08 13.33 −5.44	0274 D14 47.99 3.81 −3.99	0283 E14 52.11 −3.94 −3.79	0292 F14 56.22 −11.88 0.85	0301 G14 60.33 −19.81 5.5	0310 H14 64.44 −27.75 10.14	0319 I14 68.55 −35.67 14.79	0328 J14 33.07 37.84 −3.63
15	0248 A15 31.23 36.24 −13.81	0257 B15 37.14 26.72 −12.37	0266 C15 43.05 17.2 −10.92	0275 D15 48.96 7.67 −9.48	0284 E15 53.07 −0.08 −9.28	0293 F15 57.18 −7.84 −9.07	0302 G15 61.29 −15.77 −4.43	0311 H15 65.41 −23.7 0.21	0320 I15 69.51 −31.63 4.86	0329 J15 34.03 41.71 −9.12
16	0249 A16 32.2 40.11 −19.3	0258 B16 38.1 30.59 −17.85	0267 C16 44.01 21.07 −16.41	0276 D16 49.92 11.54 −14.96	0285 E16 54.03 3.78 −14.76	0294 F16 58.15 −3.97 −14.56	0303 G16 62.26 −11.73 −14.36	0312 H16 66.37 −19.66 −9.71	0321 I16 70.48 −27.59 −5.07	0330 J16 35.0 45.57 −14.6
17	0250 A17 33.16 43.97 −24.78	0259 B17 39.07 34.46 −23.34	0268 C17 44.98 24.94 −21.89	0277 D17 50.89 15.41 −20.45	0286 E17 55.0 7.65 −20.25	0295 F17 59.11 −0.1 −20.05	0304 G17 63.22 −7.86 −19.85	0313 H17 67.34 −15.62 −19.64	0322 I17 71.44 −23.55 −15.0	0331 J17 35.96 49.44 −20.09
18	0251 A18 34.12 47.84 −30.26	0260 B18 40.03 38.32 −28.82	0269 C18 45.94 28.8 −27.38	0278 D18 51.85 19.28 −25.93	0287 E18 55.96 11.52 −25.73	0296 F18 60.07 3.76 −25.53	0305 G18 64.19 −3.99 −25.33	0314 H18 68.3 −11.75 −25.13	0323 I18 72.41 −19.51 −24.92	0332 J18 36.92 53.31 −25.57
19	0486 A19 40.46 49.1 38.93	0495 B19 45.76 39.54 44.43	0504 C19 51.06 29.99 49.95	0513 D19 56.36 20.43 55.46	0522 E19 61.67 10.87 60.97	0531 F19 66.97 1.31 66.48	0540 G19 72.28 −8.24 72.0	0549 H19 76.39 −16.17 76.64	0558 I19 80.49 −24.1 81.29	0567 J19 44.2 57.2 45.49
20	0487 A20 40.48 50.33 31.57	0496 B20 46.39 40.82 33.02	0505 C20 51.69 31.26 38.53	0514 D20 56.99 21.7 44.04	0523 E20 62.3 12.14 49.55	0532 F20 67.6 2.58 55.07	0541 G20 72.9 −6.97 60.58	0550 H20 77.02 −14.9 65.23	0559 I20 81.12 −22.83 69.87	0568 J20 44.22 58.43 38.14
21	0488 A21 40.5 51.57 24.21	0497 B21 46.41 42.05 25.66	0506 C21 52.32 32.53 27.1	0515 D21 57.62 22.97 32.61	0524 E21 62.93 13.41 38.13	0533 F21 68.23 3.85 43.64	0542 G21 73.54 −5.7 49.15	0551 H21 77.65 −13.63 53.8	0560 I21 81.75 −21.56 58.44	0569 J21 44.25 59.67 30.78
22	0489 A22 40.53 52.8 16.85	0498 B22 46.43 43.29 18.3	0507 C22 52.34 33.76 19.74	0516 D22 58.25 24.24 21.19	0525 E22 63.56 14.68 26.7	0534 F22 68.86 5.12 32.21	0543 G22 74.17 −4.43 37.73	0552 H22 78.28 −12.36 42.37	0561 I22 82.38 −20.29 47.02	0570 J22 44.27 60.9 23.42
23	0490 A23 40.55 54.04 9.5	0499 B23 46.46 44.52 10.94	0508 C23 52.37 35.0 12.38	0517 D23 58.28 25.48 13.83	0526 E23 64.19 15.95 15.27	0535 F23 69.49 6.39 20.79	0544 G23 74.8 −3.15 26.3	0553 H23 78.91 −11.09 30.95	0562 I23 83.01 −19.02 35.59	0571 J23 44.29 62.14 16.06
24	0491 A24 40.58 55.28 2.14	0500 B24 46.48 45.76 3.58	0509 C24 52.39 36.24 5.03	0518 D24 58.3 26.71 6.47	0527 E24 64.21 17.19 7.92	0536 F24 70.12 7.67 9.36	0545 G24 75.43 −1.88 14.87	0554 H24 79.54 −9.82 19.52	0563 I24 83.64 −17.74 24.17	0572 J24 44.32 63.38 8.7
25	0492 A25 40.6 56.51 −5.21	0501 B25 46.51 47.0 −3.77	0510 C25 52.42 37.47 −2.32	0519 D25 58.33 27.95 −0.88	0528 E25 64.24 18.43 0.56	0537 F25 70.15 8.9 2.0	0546 G25 76.06 −0.61 3.44	0555 H25 80.17 −8.55 8.09	0564 I25 84.27 −16.47 12.74	0573 J25 44.34 64.61 1.35
26	0493 A26 41.56 60.38 −10.7	0502 B26 47.47 50.86 −9.25	0511 C26 53.38 41.34 −7.81	0520 D26 59.29 31.82 −6.36	0529 E26 65.2 22.29 −4.92	0538 F26 71.11 12.77 −3.47	0547 G26 77.02 3.25 −2.03	0556 H26 81.13 −4.5 −1.83	0565 I26 85.24 −12.43 2.81	0574 J26 44.36 65.85 −6.0
27	0494 A27 42.53 64.25 −16.18	0503 B27 48.43 54.73 −14.74	0512 C27 54.34 45.21 −13.29	0521 D27 60.25 35.68 −11.85	0530 E27 66.16 26.16 −10.4	0539 F27 72.07 16.64 −8.96	0548 G27 77.98 7.11 −7.51	0557 H27 82.09 −0.64 −7.31	0566 I27 86.2 −8.39 −7.11	0575 J27 45.33 69.72 −11.48

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 27.05 −0.95 11.6	0099 L01 31.16 −8.89 16.24	0108 M01 35.27 −16.82 20.89	0117 N01 39.38 −24.75 25.54	0126 O01 43.5 −32.69 30.19	0135 P01 47.61 −40.62 34.83	0144 Q01 51.72 −48.55 39.48	0153 R01 55.83 −56.48 44.12	0162 S01 25.49 16.69 12.66	0171 T01 30.79 7.14 18.16
02	0091 K02 27.68 0.31 0.17	0100 L02 31.79 −7.62 4.83	0109 M02 35.9 −15.55 9.47	0118 N02 40.01 −23.48 14.12	0127 O02 44.12 −31.42 18.77	0136 P02 48.24 −39.35 23.42	0145 Q02 52.35 −47.28 28.06	0154 R02 56.46 −55.21 32.71	0163 S02 25.52 17.93 5.3	0172 T02 31.42 8.41 6.75
03	0092 K03 28.64 4.18 −5.3	0101 L03 32.76 −3.57 −5.1	0110 M03 36.87 −11.51 −0.45	0119 N03 40.98 −19.44 4.19	0128 O03 45.09 −27.37 8.84	0137 P03 49.2 −35.31 13.48	0146 Q03 53.31 −43.24 18.13	0155 R03 57.42 −51.17 22.78	0164 S03 25.54 19.16 −2.05	0173 T03 31.45 9.65 −0.6
04	0093 K04 29.61 8.05 −10.78	0102 L04 33.72 0.29 −10.58	0111 M04 37.83 −7.46 −10.38	0120 N04 41.94 −15.4 −5.73	0129 O04 46.06 −23.33 −1.09	0138 P04 50.17 −31.26 3.55	0147 Q04 54.28 −39.2 8.2	0156 R04 58.39 −47.13 12.84	0165 S04 26.5 23.03 −7.53	0174 T04 32.41 13.52 −6.09
05	0094 K05 30.57 11.92 −16.27	0103 L05 34.68 4.16 −16.07	0112 M05 38.8 −3.59 −15.87	0121 N05 42.91 −11.36 −15.67	0130 O05 47.02 −19.29 −11.02	0139 P05 51.13 −27.22 −6.37	0148 Q05 55.24 −35.16 −1.72	0157 R05 59.35 −43.08 2.91	0166 S05 27.47 26.9 −13.02	0175 T05 33.37 17.38 −11.58
06	0095 K06 31.54 15.78 −21.76	0104 L06 35.65 8.02 −21.56	0113 M06 39.76 0.26 −21.35	0122 N06 43.87 −7.49 −21.15	0131 O06 47.99 −15.25 −20.95	0140 P06 52.1 −23.18 −16.3	0149 Q06 56.21 −31.11 −11.66	0158 R06 60.32 −39.04 −7.01	0167 S06 28.43 30.77 −18.51	0176 T06 34.34 21.25 −17.06
07	0096 K07 32.5 19.65 −27.24	0105 L07 36.61 11.89 −27.04	0114 M07 40.72 4.13 −26.84	0123 N07 44.84 −3.62 −26.64	0132 O07 48.95 −11.38 −26.44	0141 P07 53.06 −19.14 −26.24	0150 Q07 57.17 −27.07 −21.59	0159 R07 61.28 −35.0 −16.94	0168 S07 29.39 34.64 −23.99	0177 T07 35.3 25.12 −22.55
08	0097 K08 33.46 23.52 −32.73	0106 L08 37.58 15.76 −32.53	0115 M08 41.69 8.0 −32.33	0124 N08 45.8 0.24 −32.13	0133 O08 49.91 −7.51 −31.92	0142 P08 54.03 −15.27 −31.72	0151 Q08 58.14 −23.03 −31.52	0160 R08 62.25 −30.96 −26.88	0169 S08 30.36 38.51 −29.48	0178 T08 36.26 28.99 −28.03
09	0098 K09 34.43 27.39 −38.21	0107 L09 38.54 19.63 −38.01	0116 M09 42.65 11.87 −37.81	0125 N09 46.76 4.11 −37.61	0134 O09 50.88 −3.64 −37.41	0143 P09 54.99 −11.4 −37.2	0152 Q09 59.1 −19.16 −37.0	0161 R09 63.21 −26.92 −36.8	0170 S09 31.32 42.37 −34.96	0179 T09 37.23 32.86 −33.52
10	0333 K10 38.27 23.34 31.3	0342 L10 43.58 13.78 36.81	0351 M10 48.88 4.22 42.32	0360 N10 54.19 −5.32 47.84	0369 O10 58.3 −13.26 52.48	0378 P10 62.41 −21.19 57.13	0387 Q10 66.52 −29.13 61.78	0396 R10 70.63 −37.05 66.42	0405 S10 36.72 40.99 32.36	0414 T10 42.02 31.44 37.87
11	0334 K11 38.9 24.61 19.88	0343 L11 44.21 15.05 25.39	0352 M11 49.51 5.5 30.91	0361 N11 54.82 −4.05 36.42	0370 O11 58.93 −11.99 41.07	0379 P11 63.04 −19.92 45.71	0388 Q11 67.15 −27.86 50.36	0397 R11 71.26 −35.78 55.01	0406 S11 36.74 42.23 25.0	0415 T11 42.65 32.71 26.45
12	0335 K12 38.93 25.85 12.52	0344 L12 44.84 16.33 13.97	0353 M12 50.14 6.77 19.48	0362 N12 55.45 −2.78 24.99	0371 O12 59.56 −10.72 29.64	0380 P12 63.67 −18.65 34.29	0389 Q12 67.78 −26.58 38.93	0398 R12 71.89 −34.51 43.58	0407 S12 36.76 43.47 17.65	0416 T12 42.67 33.95 19.09
13	0336 K13 38.95 27.08 5.16	0345 L13 44.86 17.56 6.61	0354 M13 50.77 8.04 8.05	0363 N13 56.08 −1.51 13.57	0372 O13 60.19 −9.45 18.21	0381 P13 64.3 −17.38 22.86	0390 Q13 68.41 −25.31 27.51	0399 R13 72.52 −33.24 32.15	0408 S13 36.79 44.7 10.29	0417 T13 42.69 35.19 11.73
14	0337 K14 38.98 28.32 −2.19	0346 L14 44.89 18.8 −0.74	0355 M14 50.8 9.27 0.69	0364 N14 56.71 −0.24 2.13	0373 O14 60.82 −8.17 6.79	0382 P14 64.93 −16.11 11.43	0391 Q14 69.04 −24.04 16.08	0400 R14 73.15 −31.97 20.73	0409 S14 36.81 45.94 2.93	0418 T14 42.72 36.42 4.37
15	0338 K15 39.94 32.19 −7.67	0347 L15 45.85 22.67 −6.23	0356 M15 51.76 13.14 −4.78	0365 N15 57.67 3.62 −3.34	0374 O15 61.78 −4.13 −3.14	0383 P15 65.89 −12.07 1.5	0392 Q15 70.0 −20.0 6.15	0401 R15 74.11 −27.93 10.79	0410 S15 36.83 47.17 −4.42	0419 T15 42.74 37.66 −2.98
16	0339 K16 40.9 36.06 −13.16	0348 L16 46.81 26.54 −11.71	0357 M16 52.72 17.01 −10.27	0366 N16 58.63 7.49 −8.82	0375 O16 62.75 −0.26 −8.62	0384 P16 66.86 −8.02 −8.42	0393 Q16 70.97 −15.96 −3.77	0402 R16 75.08 −23.88 0.86	0411 S16 37.8 51.04 −9.91	0420 T16 43.7 41.53 −8.46
17	0340 K17 41.87 39.93 −18.64	0349 L17 47.78 30.4 −17.2	0358 M17 53.69 20.88 −15.75	0367 N17 59.6 11.36 −14.31	0376 O17 63.71 3.6 −14.11	0385 P17 67.82 −4.15 −13.91	0394 Q17 71.93 −11.91 −13.71	0403 R17 76.04 −19.84 −9.06	0412 S17 38.76 54.91 −15.39	0421 T17 44.67 45.4 −13.95
18	0341 K18 42.83 43.79 −24.13	0350 L18 48.74 34.27 −22.68	0359 M18 54.65 24.75 −21.24	0368 N18 60.56 15.22 −19.79	0377 O18 64.67 7.46 −19.59	0386 P18 68.78 −0.29 −19.39	0395 Q18 72.9 −8.05 −19.19	0404 R18 77.01 −15.8 −18.99	0413 S18 39.73 58.78 −20.87	0422 T18 45.63 49.26 −19.43
19	0576 K19 49.5 47.65 51.0	0585 L19 54.8 38.09 56.51	0594 M19 60.11 28.53 62.03	0603 N19 65.41 18.97 67.54	0612 O19 70.71 9.41 73.05	0621 P19 76.02 −0.14 78.56	0630 Q19 81.32 −9.7 84.08	0639 R19 85.43 −17.62 88.72	0648 S19 47.94 65.29 52.06	0657 T19 53.24 55.74 57.56
20	0577 K20 50.13 48.92 39.58	0586 L20 55.43 39.36 45.1	0595 M20 60.74 29.8 50.61	0604 N20 66.04 20.24 56.12	0613 O20 71.34 10.68 61.63	0622 P20 76.65 1.12 67.15	0631 Q20 81.95 −8.43 72.66	0640 R20 86.06 −16.35 77.3	0649 S20 47.96 66.53 44.7	0658 T20 53.87 57.01 46.15
21	0578 K21 50.15 50.15 32.23	0587 L21 56.06 40.63 33.67	0596 M21 61.37 31.07 39.18	0605 N21 66.67 21.51 44.69	0614 O21 71.97 11.95 50.21	0623 P21 77.28 2.39 55.72	0632 Q21 82.58 −7.15 61.23	0641 R21 86.69 −15.08 65.88	0650 S21 47.98 67.76 37.34	0659 T21 53.89 58.25 38.79
22	0579 K22 50.18 51.39 24.87	0588 L22 56.08 41.87 26.31	0597 M22 62.0 32.34 27.76	0606 N22 67.3 22.78 33.27	0615 O22 72.6 13.22 38.78	0624 P22 77.91 3.67 44.29	0633 Q22 83.21 −5.88 49.81	0642 R22 87.32 −13.81 54.45	0651 S22 48.01 69.0 29.98	0660 T22 53.91 59.48 31.43
23	0580 K23 50.2 52.62 17.51	0589 L23 56.11 43.1 18.95	0598 M23 62.02 33.58 20.4	0607 N23 67.93 24.05 21.84	0616 O23 73.23 14.5 27.35	0625 P23 78.54 4.94 32.87	0634 Q23 83.84 −4.61 38.38	0643 R23 87.95 −12.54 43.02	0652 S23 48.03 70.24 22.63	0661 T23 53.94 60.72 24.07
24	0581 K24 50.22 53.86 10.15	0590 L24 56.13 44.34 11.59	0599 M24 62.04 34.81 13.04	0608 N24 67.95 25.29 14.48	0617 O24 73.86 15.77 15.93	0626 P24 79.17 6.21 21.44	0635 Q24 84.47 −3.34 26.95	0644 R24 88.58 −11.27 31.6	0653 S24 48.06 71.47 15.27	0662 T24 53.96 61.96 16.71
25	0582 K25 50.25 55.1 2.79	0591 L25 56.16 45.57 4.23	0600 M25 62.07 36.05 5.68	0609 N25 67.98 26.53 7.12	0618 O25 73.89 17.0 8.57	0627 P25 79.8 7.48 10.01	0636 Q25 85.1 −2.07 15.53	0645 R25 89.21 −10.0 20.17	0654 S25 48.08 72.71 7.91	0663 T25 53.98 63.19 9.35
26	0583 K26 50.27 56.33 −4.56	0592 L26 56.18 46.81 −3.11	0601 M26 62.09 37.29 −1.67	0610 N26 68.0 27.76 −0.22	0619 O26 73.91 18.24 1.21	0628 P26 79.82 8.72 2.66	0637 Q26 85.73 −0.8 4.09	0646 R26 89.84 −8.73 8.75	0655 S26 48.1 73.94 0.55	0664 T26 54.01 64.43 1.99
27	0584 K27 51.23 60.2 −10.04	0593 L27 57.14 50.68 −8.6	0602 M27 63.05 41.15 −7.15	0611 N27 68.96 31.63 −5.71	0620 O27 74.87 22.1 −4.26	0629 P27 80.78 12.58 −2.82	0638 Q27 86.69 3.06 −1.37	0647 R27 90.8 −4.69 −1.17	0656 S27 48.13 75.18 −6.79	0665 T27 54.03 65.66 −5.35

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 36.1 −2.41 23.68	0189 V01 40.21 −10.34 28.32	0198 W01 44.32 −18.28 32.97	0207 X01 48.43 −26.21 37.62	0216 Y01 52.54 −34.14 42.27	0225 Z01 56.65 −42.08 46.91	0234 a01 60.76 −50.01 51.56	0729 b01 95.4 −0.98 4.75	0738 c01 89.47 7.29 10.66	0747 d01 83.53 15.57 16.58
02	0181 U02 36.73 −1.14 12.26	0190 V02 40.84 −9.07 16.91	0199 W02 44.95 −17.01 21.55	0208 X02 49.06 −24.94 26.2	0217 Y02 53.17 −32.87 30.85	0226 Z02 57.28 −40.81 35.5	0235 a02 61.39 −48.73 40.14	0730 b02 90.8 −4.69 −1.17	0739 c02 85.73 −0.8 4.09	0748 d02 79.8 7.48 10.01
03	0182 U03 37.36 0.12 0.82	0191 V03 41.47 −7.8 5.48	0200 W03 45.58 −15.74 10.13	0209 X03 49.69 −23.67 14.77	0218 Y03 53.8 −31.6 19.42	0227 Z03 57.91 −39.54 24.07	0236 a03 62.02 −47.46 28.71	0731 b03 86.2 −8.39 −7.11	0740 c03 81.13 −4.5 −1.83	0749 d03 76.06 −0.61 3.44
04	0183 U04 38.32 3.99 −4.64	0192 V04 42.43 −3.76 −4.44	0201 W04 46.54 −11.69 0.19	0210 X04 50.65 −19.63 4.84	0219 Y04 54.77 −27.56 9.49	0228 Z04 58.88 −35.49 14.14	0237 a04 62.98 −43.42 18.78	0732 b04 81.6 −12.1 −13.05	0741 c04 76.53 −8.21 −7.77	0750 d04 71.46 −4.32 −2.48
05	0184 U05 39.28 7.86 −10.13	0193 V05 43.4 0.1 −9.93	0202 W05 47.51 −7.65 −9.73	0211 X05 51.62 −15.58 −5.08	0220 Y05 55.73 −23.52 −0.43	0229 Z05 59.84 −31.45 4.2	0238 a05 63.95 −39.38 8.85	0733 b05 77.01 −15.8 −18.99	0742 c05 71.93 −11.91 −13.71	0751 d05 66.86 −8.02 −8.42
06	0185 U06 40.25 11.73 −15.62	0194 V06 44.36 3.97 −15.42	0203 W06 48.47 −3.78 −15.21	0212 X06 52.58 −11.54 −15.01	0221 Y06 56.7 −19.48 −10.37	0230 Z06 60.81 −27.41 −5.72	0239 a06 64.91 −35.34 −1.07	0734 b06 72.41 −19.51 −24.92	0743 c06 67.34 −15.62 −19.64	0752 d06 62.26 −11.73 −14.36
07	0186 U07 41.21 15.6 −21.1	0195 V07 45.32 7.84 −20.9	0204 W07 49.44 0.08 −20.7	0213 X07 53.55 −7.67 −20.5	0222 Y07 57.66 −15.43 −20.3	0231 Z07 61.77 −23.37 −15.65	0240 a07 65.88 −31.29 −11.01	0735 b07 67.81 −23.21 −30.86	0744 c07 62.74 −19.32 −25.58	0753 d07 57.66 −15.43 −20.3
08	0187 U08 42.17 19.47 −26.59	0196 V08 46.29 11.71 −26.39	0205 W08 50.4 3.95 −26.19	0214 X08 54.51 −3.8 −25.99	0223 Y08 58.62 −11.56 −25.78	0232 Z08 62.74 −19.32 −25.58	0241 a08 66.84 −27.25 −20.94	0736 b08 63.21 −26.92 −36.8	0745 c08 58.14 −23.03 −31.52	0754 d08 53.06 −19.14 −26.24
09	0188 U09 43.14 23.33 −32.07	0197 V09 47.25 15.57 −31.87	0206 W09 51.36 7.81 −31.67	0215 X09 55.47 0.05 −31.47	0224 Y09 59.59 −7.7 −31.27	0233 Z09 63.7 −15.46 −31.06	0242 a09 67.81 −23.21 −30.86	0737 b09 58.61 −30.62 −42.74	0746 c09 53.54 −26.73 −37.46	0755 d09 48.47 −22.84 −32.17
10	0423 U10 47.32 21.88 43.38	0432 V10 52.62 12.33 48.89	0441 W10 57.93 2.77 54.4	0450 X10 63.23 −6.78 59.92	0459 Y10 67.34 −14.72 64.56	0468 Z10 71.45 −22.65 69.21	0477 a10 75.56 −30.58 73.85	0810 b10 95.4 −0.98 4.75	0819 c10 94.77 −2.26 16.17	0828 d10 94.14 −3.53 27.6
11	0424 U11 47.95 23.16 31.96	0433 V11 53.25 13.6 37.47	0442 W11 58.56 4.04 42.99	0451 X11 63.86 −5.51 48.5	0460 Y11 67.97 −13.44 53.15	0469 Z11 72.08 −21.38 57.79	0478 a11 76.19 −29.31 62.44	0811 b11 86.69 3.06 −1.37	0820 c11 85.73 −0.8 4.09	0829 d11 85.1 −2.07 15.53
12	0425 U12 48.58 24.43 20.53	0434 V12 53.88 14.87 26.05	0443 W12 59.19 5.31 31.56	0452 X12 64.49 −4.24 37.07	0461 Y12 68.6 −12.17 41.72	0470 Z12 72.71 −20.11 46.37	0479 a12 76.82 −28.03 51.01	0812 b12 77.98 7.11 −7.51	0821 c12 77.02 3.25 −2.03	0830 d12 76.06 −0.61 3.44
13	0426 U13 48.6 25.66 13.18	0435 V13 54.51 16.14 14.62	0444 W13 59.82 6.58 20.13	0453 X13 65.12 −2.97 25.65	0462 Y13 69.23 −10.9 30.29	0471 Z13 73.34 −18.84 34.94	0480 a13 77.45 −26.76 39.59	0813 b13 69.27 11.17 −13.65	0822 c13 68.31 7.3 −8.17	0831 d13 67.34 3.43 −2.68
14	0427 U14 48.63 26.9 5.82	0436 V14 54.54 17.37 7.26	0445 W14 60.45 7.85 8.71	0454 X14 65.75 −1.7 14.22	0463 Y14 69.86 −9.63 18.87	0472 Z14 73.97 −17.57 23.51	0481 a14 78.08 −25.49 28.16	0814 b14 60.56 15.22 −19.79	0823 c14 59.6 11.36 −14.31	0832 d14 58.63 7.49 −8.82
15	0428 U15 48.65 28.14 −1.53	0437 V15 54.56 18.61 −0.09	0446 W15 60.47 9.09 1.35	0455 X15 66.38 −0.43 2.79	0464 Y15 70.49 −8.36 7.44	0473 Z15 74.6 −16.29 12.09	0482 a15 78.71 −24.22 16.73	0815 b15 51.85 19.28 −25.93	0824 c15 50.89 15.41 −20.45	0833 d15 49.92 11.54 −14.96
16	0429 U16 49.61 32.0 −7.02	0438 V16 55.52 22.48 −5.57	0447 W16 61.43 12.96 −4.13	0456 X16 67.34 3.43 −2.68	0465 Y16 71.46 −4.32 −2.48	0474 Z16 75.57 −12.25 2.16	0483 a16 79.68 −20.18 6.8	0816 b16 43.14 23.33 −32.07	0825 c16 42.17 19.47 −26.59	0834 d16 41.21 15.6 −21.1
17	0430 U17 50.58 35.87 −12.5	0439 V17 56.49 26.35 −11.06	0448 W17 62.4 16.83 −9.61	0457 X17 68.31 7.3 −8.17	0466 Y17 72.42 −0.45 −7.97	0475 Z17 76.53 −8.21 −7.77	0484 a17 80.64 −16.14 −3.12	0817 b17 34.43 27.39 −38.21	0826 c17 33.46 23.52 −32.73	0835 d17 32.5 19.65 −27.24
18	0431 U18 51.54 39.74 −17.99	0440 V18 57.45 30.21 −16.54	0449 W18 63.36 20.69 −15.1	0458 X18 69.27 11.17 −13.65	0467 Y18 73.38 3.41 −13.45	0476 Z18 77.5 −4.34 −13.25	0485 a18 81.6 −12.1 −13.05	0818 b18 25.72 31.44 −44.35	0827 c18 24.76 27.57 −38.86	0836 d18 23.79 23.7 −33.38
19	0666 U19 58.54 46.18 63.08	0675 V19 63.84 36.62 68.59	0684 W19 69.15 27.06 74.1	0693 X19 74.45 17.51 79.61	0702 Y19 79.76 7.95 85.13	0711 Z19 85.06 −1.6 90.64	0720 a19 90.36 −11.15 96.15	0891 b19 95.4 −0.98 4.75	0900 c19 89.84 −8.73 8.75	0909 d19 84.27 −16.47 12.74
20	0667 U20 59.17 47.45 51.66	0676 V20 64.47 37.89 57.17	0685 W20 69.78 28.33 62.68	0694 X20 75.08 18.78 68.2	0703 Y20 80.38 9.22 73.71	0712 Z20 85.69 −0.33 79.22	0721 a20 90.99 −9.88 84.73	0892 b20 89.49 8.52 3.31	0901 c20 85.73 −0.8 4.09	0910 d20 80.17 −8.55 8.09
21	0668 U21 59.8 48.72 40.23	0677 V21 65.1 39.16 45.74	0686 W21 70.41 29.61 51.26	0695 X21 75.71 20.05 56.77	0704 Y21 81.01 10.49 62.28	0713 Z21 86.32 0.93 67.79	0722 a21 91.62 −8.61 73.3	0893 b21 83.58 18.05 1.87	0902 c21 79.82 8.72 2.66	0911 d21 76.06 −0.61 3.44
22	0669 U22 59.82 49.96 32.87	0678 V22 65.73 40.44 34.32	0687 W22 71.04 30.88 39.83	0696 X22 76.34 21.32 45.34	0705 Y22 81.64 11.76 50.86	0714 Z22 86.95 2.2 56.37	0723 a22 92.25 −7.34 61.88	0894 b22 77.67 27.57 0.42	0903 c22 73.91 18.24 1.21	0912 d22 70.15 8.9 2.0
23	0670 U23 59.85 51.2 25.51	0679 V23 65.76 41.67 26.96	0688 W23 71.67 32.15 28.4	0697 X23 76.97 22.59 33.92	0706 Y23 82.27 13.03 39.43	0715 Z23 87.58 3.47 44.94	0724 a23 92.88 −6.07 50.45	0895 b23 71.76 37.09 −1.01	0904 c23 68.0 27.76 −0.22	0913 d23 64.24 18.43 0.56
24	0671 U24 59.87 52.43 18.16	0680 V24 65.78 42.91 19.6	0689 W24 71.69 33.38 21.05	0698 X24 77.6 23.86 22.49	0707 Y24 82.9 14.3 28.0	0716 Z24 88.21 4.74 33.52	0725 a24 93.51 −4.8 39.02	0896 b24 65.85 46.62 −2.46	0905 c24 62.09 37.29 −1.67	0914 d24 58.33 27.95 −0.88
25	0672 U25 59.89 53.67 10.8	0681 V25 65.8 44.14 12.24	0690 W25 71.71 34.62 13.69	0699 X25 77.62 25.1 15.13	0708 Y25 83.53 15.57 16.58	0717 Z25 88.84 6.01 22.09	0726 a25 94.14 −3.53 27.6	0897 b25 59.94 56.14 −3.9	0906 c25 56.18 46.81 −3.11	0915 d25 52.42 37.47 −2.32
26	0673 U26 59.92 54.9 3.44	0682 V26 65.83 45.38 4.88	0691 W26 71.74 35.86 6.33	0700 X26 77.65 26.33 7.77	0709 Y26 83.56 16.81 9.22	0718 Z26 89.47 7.29 10.66	0727 a26 94.77 −2.26 16.17	0898 b26 54.03 65.66 −5.35	0907 c26 50.27 56.33 −4.56	0916 d26 46.51 47.0 −3.77
27	0674 U27 59.94 56.14 −3.9	0683 V27 65.85 46.62 −2.46	0692 W27 71.76 37.09 −1.01	0701 X27 77.67 27.57 0.42	0710 Y27 83.58 18.05 1.87	0719 Z27 89.49 8.52 3.31	0728 a27 95.4 −0.98 4.75	0899 b27 48.13 75.18 −6.79	0908 c27 44.36 65.85 −6.0	0917 d27 40.6 56.51 −5.21

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 77.6 23.86 22.49	0765 f01 71.67 32.15 28.4	0774 g01 65.73 40.44 34.32	0783 h01 59.8 48.72 40.23	0792 i01 53.87 57.01 46.15	0801 j01 47.94 65.29 52.06	0972 k01 18.02 0.49 −0.47	0981 l01 18.02 0.49 −0.47	0990 m01 18.02 0.49 −0.47	0999 n01 18.02 0.49 −0.47
02	0757 e02 73.86 15.77 15.93	0766 f02 67.93 24.05 21.84	0775 g02 62.0 32.34 27.76	0784 h02 56.06 40.63 33.67	0793 i02 50.13 48.92 39.58	0802 j02 44.2 57.2 45.49	0973 k02 27.68 0.31 0.17	0982 l02 27.68 0.31 0.17	0991 m02 27.68 0.31 0.17	1000 n02 27.68 0.31 0.17
03	0758 e03 70.12 7.67 9.36	0767 f03 64.19 15.95 15.27	0776 g03 58.25 24.24 21.19	0785 h03 52.32 32.53 27.1	0794 i03 46.39 40.82 33.02	0803 j03 40.46 49.1 38.93	0974 k03 37.36 0.12 0.82	0983 l03 37.36 0.12 0.82	0992 m03 37.36 0.12 0.82	1001 n03 37.36 0.12 0.82
04	0759 e04 66.38 −0.43 2.79	0768 f04 60.45 7.85 8.71	0777 g04 54.51 16.14 14.62	0786 h04 48.58 24.43 20.53	0795 i04 42.65 32.71 26.45	0804 j04 36.72 40.99 32.36	0975 k04 47.03 −0.05 1.48	0984 l04 47.03 −0.05 1.48	0993 m04 47.03 −0.05 1.48	1002 n04 47.03 −0.05 1.48
05	0760 e05 61.78 −4.13 −3.14	0769 f05 56.71 −0.24 2.13	0778 g05 50.77 8.04 8.05	0787 h05 44.84 16.33 13.97	0796 i05 38.9 24.61 19.88	0805 j05 32.97 32.89 25.79	0976 k05 56.71 −0.24 2.13	0985 l05 56.71 −0.24 2.13	0994 m05 56.71 −0.24 2.13	1003 n05 56.71 −0.24 2.13
06	0761 e06 57.18 −7.84 −9.07	0770 f06 52.11 −3.94 −3.79	0779 g06 47.03 −0.05 1.48	0788 h06 41.1 8.22 7.4	0797 i06 35.16 16.51 13.31	0806 j06 29.23 24.79 19.22	0977 k06 66.38 −0.43 2.79	0986 l06 66.38 −0.43 2.79	0995 m06 66.38 −0.43 2.79	1004 n06 66.38 −0.43 2.79
07	0762 e07 52.58 −11.54 −15.01	0771 f07 47.51 −7.65 −9.73	0780 g07 42.43 −3.76 −4.44	0789 h07 37.36 0.12 0.82	0798 i07 31.42 8.41 6.75	0807 j07 25.49 16.69 12.66	0978 k07 76.06 −0.61 3.44	0987 l07 76.06 −0.61 3.44	0996 m07 76.06 −0.61 3.44	1005 n07 76.06 −0.61 3.44
08	0763 e08 47.99 −15.25 −20.95	0772 f08 42.91 −11.36 −15.67	0781 g08 37.83 −7.46 −10.38	0790 h08 32.76 −3.57 −5.1	0799 i08 27.68 0.31 0.17	0808 j08 21.75 8.59 6.09	0979 k08 85.73 −0.8 4.09	0988 l08 85.73 −0.8 4.09	0997 m08 85.73 −0.8 4.09	1006 n08 85.73 −0.8 4.09
09	0764 e09 43.39 −18.95 −26.89	0773 f09 38.31 −15.06 −21.6	0782 g09 33.24 −11.17 −16.32	0791 h09 28.16 −7.27 −11.03	0800 i09 23.08 −3.38 −5.75	0809 j09 18.02 0.49 −0.47	0980 k09 95.4 −0.98 4.75	0989 l09 95.4 −0.98 4.75	0998 m09 95.4 −0.98 4.75	1007 n09 95.4 −0.98 4.75
10	0837 e10 93.51 −4.8 39.02	0846 f10 92.88 −6.07 50.45	0855 g10 92.25 −7.34 61.88	0864 h10 91.62 −8.61 73.3	0873 i10 90.99 −9.88 84.73	0882 j10 90.36 −11.15 96.15	1008 k10 18.02 0.49 −0.47	1024 l10 18.02 0.49 −0.47	1040 m10 18.02 0.49 −0.47	1056 n10 18.02 0.49 −0.47
11	0838 e11 84.47 −3.34 26.95	0847 f11 83.84 −4.61 38.38	0856 g11 83.21 −5.88 49.81	0865 h11 82.58 −7.15 61.23	0874 i11 81.95 −8.43 72.66	0883 j11 81.32 −9.7 84.08	1009 k11 23.17 0.4 −0.12	1025 l11 23.17 0.4 −0.12	1041 m11 23.17 0.4 −0.12	1057 n11 23.17 0.4 −0.12
12	0839 e12 75.43 −1.88 14.87	0848 f12 74.8 −3.15 26.3	0857 g12 74.17 −4.43 37.73	0866 h12 73.54 −5.7 49.15	0875 i12 72.9 −6.97 60.58	0884 j12 72.28 −8.24 72.0	1010 k12 28.33 0.3 0.21	1026 l12 28.33 0.3 0.21	1042 m12 28.33 0.3 0.21	1058 n12 28.33 0.3 0.21
13	0840 e13 66.38 −0.43 2.79	0849 f13 65.75 −1.7 14.22	0858 g13 65.12 −2.97 25.65	0867 h13 64.49 −4.24 37.07	0876 i13 63.86 −5.51 48.5	0885 j13 63.23 −6.78 59.92	1011 k13 33.49 0.2 0.56	1027 l13 33.49 0.2 0.56	1043 m13 33.49 0.2 0.56	1059 n13 33.49 0.2 0.56
14	0841 e14 57.67 3.62 −3.34	0850 f14 56.71 −0.24 2.13	0859 g14 56.08 −1.51 13.57	0868 h14 55.45 −2.78 24.99	0877 i14 54.82 −4.05 36.42	0886 j14 54.19 −5.32 47.84	1012 k14 38.65 0.1 0.91	1028 l14 38.65 0.1 0.91	1044 m14 38.65 0.1 0.91	1060 n14 38.65 0.1 0.91
15	0842 e15 48.96 7.67 −9.48	0851 f15 47.99 3.81 −3.99	0860 g15 47.03 −0.05 1.48	0869 h15 46.4 −1.32 12.91	0878 i15 45.77 −2.6 24.34	0887 j15 45.14 −3.87 35.76	1013 k15 43.81 0.0 1.26	1029 l15 43.81 0.0 1.26	1045 m15 43.81 0.0 1.26	1061 n15 43.81 0.0 1.26
16	0843 e16 40.25 11.73 −15.62	0852 f16 39.28 7.86 −10.13	0861 g16 38.32 3.99 −4.64	0870 h16 37.36 0.12 0.82	0879 i16 36.73 −1.14 12.26	0888 j16 36.1 −2.41 23.68	1014 k16 48.97 −0.09 1.61	1030 l16 48.97 −0.09 1.61	1046 m16 48.97 −0.09 1.61	1062 n16 48.97 −0.09 1.61
17	0844 e17 31.54 15.78 −21.76	0853 f17 30.57 11.92 −16.27	0862 g17 29.61 8.05 −10.78	0871 h17 28.64 4.18 −5.3	0880 i17 27.68 0.31 0.17	0889 j17 27.05 −0.95 11.6	1015 k17 54.13 −0.19 1.96	1031 l17 54.13 −0.19 1.96	1047 m17 54.13 −0.19 1.96	1063 n17 54.13 −0.19 1.96
18	0845 e18 22.83 19.84 −27.89	0854 f18 21.87 15.97 −22.41	0863 g18 20.9 12.1 −16.92	0872 h18 19.94 8.23 −11.43	0881 i18 18.98 4.36 −5.95	0890 j18 18.02 0.49 −0.47	1016 k18 59.29 −0.29 2.31	1032 l18 59.29 −0.29 2.31	1048 m18 59.29 −0.29 2.31	1064 n18 59.29 −0.29 2.31
19	0918 e19 78.71 −24.22 16.73	0927 f19 73.15 −31.97 20.73	0936 g19 67.58 −39.72 24.72	0945 h19 62.02 −47.46 28.71	0954 i19 56.46 −55.21 32.71	0963 j19 50.9 −62.95 36.7	1017 k19 64.45 −0.39 2.65	1033 l19 64.45 −0.39 2.65	1049 m19 64.45 −0.39 2.65	1065 n19 64.45 −0.39 2.65
20	0919 e20 74.6 −16.29 12.09	0928 f20 69.04 −24.04 16.08	0937 g20 63.48 −31.79 20.08	0946 h20 57.91 −39.54 24.07	0955 i20 52.35 −47.28 28.06	0964 j20 46.79 −55.03 32.05	1018 k20 69.61 −0.49 3.0	1034 l20 69.61 −0.49 3.0	1050 m20 69.61 −0.49 3.0	1066 n20 69.61 −0.49 3.0
21	0920 e21 70.49 −8.36 7.44	0929 f21 64.93 −16.11 11.43	0938 g21 59.36 −23.86 15.43	0947 h21 53.8 −31.6 19.42	0956 i21 48.24 −39.35 23.42	0965 j21 42.68 −47.09 27.41	1019 k21 74.77 −0.59 3.35	1035 l21 74.77 −0.59 3.35	1051 m21 74.77 −0.59 3.35	1067 n21 74.77 −0.59 3.35
22	0921 e22 66.38 −0.43 2.79	0930 f22 60.82 −8.17 6.79	0939 g22 55.25 −15.92 10.78	0948 h22 49.69 −23.67 14.77	0957 i22 44.12 −31.42 18.77	0966 j22 38.57 −39.16 22.76	1020 k22 79.93 −0.69 3.7	1036 l22 79.93 −0.69 3.7	1052 m22 79.93 −0.69 3.7	1068 n22 79.93 −0.69 3.7
23	0922 e23 60.47 9.09 1.35	0931 f23 56.71 −0.24 2.13	0940 g23 51.14 −7.99 6.13	0949 h23 45.58 −15.74 10.13	0958 i23 40.01 −23.48 14.12	0967 j23 34.45 −31.22 18.11	1021 k23 85.09 −0.79 4.05	1037 l23 85.09 −0.79 4.05	1053 m23 85.09 −0.79 4.05	1069 n23 85.09 −0.79 4.05
24	0923 e24 54.56 18.61 −0.09	0932 f24 50.8 9.27 0.69	0941 g24 47.03 −0.05 1.48	0950 h24 41.47 −7.8 5.48	0959 i24 35.9 −15.55 9.47	0968 j24 30.34 −23.29 13.46	1022 k24 90.25 −0.89 4.4	1038 l24 90.25 −0.89 4.4	1054 m24 90.25 −0.89 4.4	1070 n24 90.25 −0.89 4.4
25	0924 e25 48.65 28.14 −1.53	0933 f25 44.89 18.8 −0.74	0942 g25 41.12 9.46 0.04	0951 h25 37.36 0.12 0.82	0960 i25 31.79 −7.62 4.83	0969 j25 26.23 −15.36 8.82	1023 k25 95.4 −0.98 4.75	1039 l25 95.4 −0.98 4.75	1055 m25 95.4 −0.98 4.75	1071 n25 95.4 −0.98 4.75
26	0925 e26 42.74 37.66 −2.98	0934 f26 38.98 28.32 −2.19	0943 g26 35.21 18.98 −1.39	0952 h26 31.45 9.65 −0.6	0961 i26 27.68 0.31 0.17	0970 j26 22.12 −7.42 4.17	1072 k26 18.02 0.49 −0.47	1074 l26 47.94 65.29 52.06	1076 m26 90.36 −11.15 96.15	1078 n26 50.9 −62.95 36.7
27	0926 e27 36.83 47.17 −4.42	0935 f27 33.07 37.84 −3.63	0944 g27 29.3 28.5 −2.84	0953 h27 25.54 19.16 −2.05	0962 i27 21.77 9.82 −1.26	0971 j27 18.02 0.49 −0.47	1073 k27 95.4 −0.98 4.75	1075 l27 58.61 −30.62 −42.74	1077 m27 25.72 31.44 −44.35	1079 n27 48.13 75.18 −6.79

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 5/4, ORS18

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

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 18.02 0.49 −0.47	0009 B01 22.12 −7.42 4.17	0018 C01 26.23 −15.36 8.82	0027 D01 30.34 −23.29 13.46	0036 E01 34.45 −31.22 18.11	0045 F01 38.57 −39.16 22.76	0054 G01 42.68 −47.09 27.41	0063 H01 46.79 −55.03 32.05	0072 I01 50.9 −62.95 36.7	0081 J01 21.75 8.59 6.09
02	0001 A02 18.98 4.36 −5.95	0010 B02 23.08 −3.38 −5.75	0019 C02 27.2 −11.32 −1.1	0028 D02 31.31 −19.25 3.54	0037 E02 35.42 −27.18 8.19	0046 F02 39.53 −35.12 12.83	0055 G02 43.64 −43.05 17.48	0064 H02 47.75 −50.99 22.13	0073 I02 51.86 −58.91 26.77	0082 J02 21.77 9.82 −1.26
03	0002 A03 19.94 8.23 −11.43	0011 B03 24.05 0.48 −11.23	0020 C03 28.16 −7.27 −11.03	0029 D03 32.27 −15.21 −6.38	0038 E03 36.38 −23.14 −1.74	0047 F03 40.49 −31.08 2.9	0056 G03 44.61 −39.01 7.55	0065 H03 48.72 −46.94 12.2	0074 I03 52.83 −54.87 16.84	0083 J03 22.74 13.69 −6.74
04	0003 A04 20.9 12.1 −16.92	0012 B04 25.01 4.34 −16.72	0021 C04 29.12 −3.41 −16.52	0030 D04 33.24 −11.17 −16.32	0039 E04 37.35 −19.1 −11.67	0048 F04 41.46 −27.03 −7.02	0057 G04 45.57 −34.97 −2.37	0066 H04 49.68 −42.9 2.26	0075 I04 53.79 −50.83 6.91	0084 J04 23.7 17.56 −12.23
05	0004 A05 21.87 15.97 −22.41	0013 B05 25.98 8.21 −22.2	0022 C05 30.09 0.45 −22.0	0031 D05 34.2 −7.3 −21.8	0040 E05 38.31 −15.06 −21.6	0049 F05 42.42 −22.99 −16.95	0058 G05 46.54 −30.92 −12.31	0067 H05 50.65 −38.86 −7.66	0076 I05 54.76 −46.79 −3.01	0085 J05 24.67 21.43 −17.71
06	0005 A06 22.83 19.84 −27.89	0014 B06 26.94 12.08 −27.69	0023 C06 31.05 4.32 −27.49	0032 D06 35.16 −3.43 −27.29	0041 E06 39.28 −11.19 −27.09	0050 F06 43.39 −18.95 −26.89	0059 G06 47.5 −26.88 −22.24	0068 H06 51.61 −34.82 −17.59	0077 I06 55.72 −42.74 −12.95	0086 J06 25.63 25.3 −23.2
07	0006 A07 23.79 23.7 −33.38	0015 B07 27.9 15.95 −33.18	0024 C07 32.02 8.19 −32.98	0033 D07 36.13 0.43 −32.77	0042 E07 40.24 −7.32 −32.57	0051 F07 44.35 −15.08 −32.37	0060 G07 48.47 −22.84 −32.17	0069 H07 52.58 −30.77 −27.52	0078 I07 56.69 −38.7 −22.88	0087 J07 26.59 29.17 −28.69
08	0007 A08 24.76 27.57 −38.86	0016 B08 28.87 19.82 −38.66	0025 C08 32.98 12.06 −38.46	0034 D08 37.09 4.3 −38.26	0043 E08 41.2 −3.45 −38.06	0052 F08 45.32 −11.21 −37.86	0061 G08 49.43 −18.97 −37.66	0070 H08 53.54 −26.73 −37.46	0079 I08 57.65 −34.66 −32.81	0088 J08 27.56 33.04 −34.17
09	0008 A09 25.72 31.44 −44.35	0017 B09 29.83 23.68 −44.14	0026 C09 33.94 15.92 −43.94	0035 D09 38.06 8.16 −43.74	0044 E09 42.17 0.4 −43.54	0053 F09 46.28 −7.35 −43.34	0062 G09 50.39 −15.11 −43.14	0071 H09 54.51 −22.87 −42.94	0080 I09 58.61 −30.62 −42.74	0089 J09 28.52 36.9 −39.65
10	0243 A10 29.23 24.79 19.22	0252 B10 34.53 15.24 24.73	0261 C10 39.84 5.68 30.24	0270 D10 45.14 −3.87 35.76	0279 E10 49.25 −11.8 40.4	0288 F10 53.36 −19.73 45.05	0297 G10 57.47 −27.67 49.7	0306 H10 61.59 −35.6 54.35	0315 I10 65.69 −43.53 58.99	0324 J10 32.97 32.89 25.79
11	0244 A11 29.26 26.03 11.87	0253 B11 35.16 16.51 13.31	0262 C11 40.47 6.95 18.83	0271 D11 45.77 −2.6 24.34	0280 E11 49.88 −10.53 28.99	0289 F11 53.99 −18.46 33.63	0298 G11 58.1 −26.4 38.28	0307 H11 62.22 −34.33 42.93	0316 I11 66.32 −42.26 47.57	0325 J11 33.0 34.13 18.44
12	0245 A12 29.28 27.26 4.51	0254 B12 35.19 17.75 5.95	0263 C12 41.1 8.22 7.4	0272 D12 46.4 −1.32 12.91	0281 E12 50.51 −9.26 17.56	0290 F12 54.62 −17.19 22.21	0299 G12 58.73 −25.13 26.85	0308 H12 62.85 −33.06 31.5	0317 I12 66.95 −40.99 36.15	0326 J12 33.02 35.36 11.08
13	0246 A13 29.3 28.5 −2.84	0255 B13 35.21 18.98 −1.39	0264 C13 41.12 9.46 0.04	0273 D13 47.03 −0.05 1.48	0282 E13 51.14 −7.99 6.13	0291 F13 55.25 −15.92 10.78	0300 G13 59.36 −23.86 15.43	0309 H13 63.48 −31.79 20.08	0318 I13 67.58 −39.72 24.72	0327 J13 33.05 36.6 3.72
14	0247 A14 30.27 32.37 −8.32	0256 B14 36.17 22.85 −6.88	0265 C14 42.08 13.33 −5.44	0274 D14 47.99 3.81 −3.99	0283 E14 52.11 −3.94 −3.79	0292 F14 56.22 −11.88 0.85	0301 G14 60.33 −19.81 5.5	0310 H14 64.44 −27.75 10.14	0319 I14 68.55 −35.67 14.79	0328 J14 33.07 37.84 −3.63
15	0248 A15 31.23 36.24 −13.81	0257 B15 37.14 26.72 −12.37	0266 C15 43.05 17.2 −10.92	0275 D15 48.96 7.67 −9.48	0284 E15 53.07 −0.08 −9.28	0293 F15 57.18 −7.84 −9.07	0302 G15 61.29 −15.77 −4.43	0311 H15 65.41 −23.7 0.21	0320 I15 69.51 −31.63 4.86	0329 J15 34.03 41.71 −9.12
16	0249 A16 32.2 40.11 −19.3	0258 B16 38.1 30.59 −17.85	0267 C16 44.01 21.07 −16.41	0276 D16 49.92 11.54 −14.96	0285 E16 54.03 3.78 −14.76	0294 F16 58.15 −3.97 −14.56	0303 G16 62.26 −11.73 −14.36	0312 H16 66.37 −19.66 −9.71	0321 I16 70.48 −27.59 −5.07	0330 J16 35.0 45.57 −14.6
17	0250 A17 33.16 43.97 −24.78	0259 B17 39.07 34.46 −23.34	0268 C17 44.98 24.94 −21.89	0277 D17 50.89 15.41 −20.45	0286 E17 55.0 7.65 −20.25	0295 F17 59.11 −0.1 −20.05	0304 G17 63.22 −7.86 −19.85	0313 H17 67.34 −15.62 −19.64	0322 I17 71.44 −23.55 −15.0	0331 J17 35.96 49.44 −20.09
18	0251 A18 34.12 47.84 −30.26	0260 B18 40.03 38.32 −28.82	0269 C18 45.94 28.8 −27.38	0278 D18 51.85 19.28 −25.93	0287 E18 55.96 11.52 −25.73	0296 F18 60.07 3.76 −25.53	0305 G18 64.19 −3.99 −25.33	0314 H18 68.3 −11.75 −25.13	0323 I18 72.41 −19.51 −24.92	0332 J18 36.92 53.31 −25.57
19	0486 A19 40.46 49.1 38.93	0495 B19 45.76 39.54 44.43	0504 C19 51.06 29.99 49.95	0513 D19 56.36 20.43 55.46	0522 E19 61.67 10.87 60.97	0531 F19 66.97 1.31 66.48	0540 G19 72.28 −8.24 72.0	0549 H19 76.39 −16.17 76.64	0558 I19 80.49 −24.1 81.29	0567 J19 44.2 57.2 45.49
20	0487 A20 40.48 50.33 31.57	0496 B20 46.39 40.82 33.02	0505 C20 51.69 31.26 38.53	0514 D20 56.99 21.7 44.04	0523 E20 62.3 12.14 49.55	0532 F20 67.6 2.58 55.07	0541 G20 72.9 −6.97 60.58	0550 H20 77.02 −14.9 65.23	0559 I20 81.12 −22.83 69.87	0568 J20 44.22 58.43 38.14
21	0488 A21 40.5 51.57 24.21	0497 B21 46.41 42.05 25.66	0506 C21 52.32 32.53 27.1	0515 D21 57.62 22.97 32.61	0524 E21 62.93 13.41 38.13	0533 F21 68.23 3.85 43.64	0542 G21 73.54 −5.7 49.15	0551 H21 77.65 −13.63 53.8	0560 I21 81.75 −21.56 58.44	0569 J21 44.25 59.67 30.78
22	0489 A22 40.53 52.8 16.85	0498 B22 46.43 43.29 18.3	0507 C22 52.34 33.76 19.74	0516 D22 58.25 24.24 21.19	0525 E22 63.56 14.68 26.7	0534 F22 68.86 5.12 32.21	0543 G22 74.17 −4.43 37.73	0552 H22 78.28 −12.36 42.37	0561 I22 82.38 −20.29 47.02	0570 J22 44.27 60.9 23.42
23	0490 A23 40.55 54.04 9.5	0499 B23 46.46 44.52 10.94	0508 C23 52.37 35.0 12.38	0517 D23 58.28 25.48 13.83	0526 E23 64.19 15.95 15.27	0535 F23 69.49 6.39 20.79	0544 G23 74.8 −3.15 26.3	0553 H23 78.91 −11.09 30.95	0562 I23 83.01 −19.02 35.59	0571 J23 44.29 62.14 16.06
24	0491 A24 40.58 55.28 2.14	0500 B24 46.48 45.76 3.58	0509 C24 52.39 36.24 5.03	0518 D24 58.3 26.71 6.47	0527 E24 64.21 17.19 7.92	0536 F24 70.12 7.67 9.36	0545 G24 75.43 −1.88 14.87	0554 H24 79.54 −9.82 19.52	0563 I24 83.64 −17.74 24.17	0572 J24 44.32 63.38 8.7
25	0492 A25 40.6 56.51 −5.21	0501 B25 46.51 47.0 −3.77	0510 C25 52.42 37.47 −2.32	0519 D25 58.33 27.95 −0.88	0528 E25 64.24 18.43 0.56	0537 F25 70.15 8.9 2.0	0546 G25 76.06 −0.61 3.44	0555 H25 80.17 −8.55 8.09	0564 I25 84.27 −16.47 12.74	0573 J25 44.34 64.61 1.35
26	0493 A26 41.56 60.38 −10.7	0502 B26 47.47 50.86 −9.25	0511 C26 53.38 41.34 −7.81	0520 D26 59.29 31.82 −6.36	0529 E26 65.2 22.29 −4.92	0538 F26 71.11 12.77 −3.47	0547 G26 77.02 3.25 −2.03	0556 H26 81.13 −4.5 −1.83	0565 I26 85.24 −12.43 2.81	0574 J26 44.36 65.85 −6.0
27	0494 A27 42.53 64.25 −16.18	0503 B27 48.43 54.73 −14.74	0512 C27 54.34 45.21 −13.29	0521 D27 60.25 35.68 −11.85	0530 E27 66.16 26.16 −10.4	0539 F27 72.07 16.64 −8.96	0548 G27 77.98 7.11 −7.51	0557 H27 82.09 −0.64 −7.31	0566 I27 86.2 −8.39 −7.11	0575 J27 45.33 69.72 −11.48

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 27.05 −0.95 11.6	0099 L01 31.16 −8.89 16.24	0108 M01 35.27 −16.82 20.89	0117 N01 39.38 −24.75 25.54	0126 O01 43.5 −32.69 30.19	0135 P01 47.61 −40.62 34.83	0144 Q01 51.72 −48.55 39.48	0153 R01 55.83 −56.48 44.12	0162 S01 25.49 16.69 12.66	0171 T01 30.79 7.14 18.16
02	0091 K02 27.68 0.31 0.17	0100 L02 31.79 −7.62 4.83	0109 M02 35.9 −15.55 9.47	0118 N02 40.01 −23.48 14.12	0127 O02 44.12 −31.42 18.77	0136 P02 48.24 −39.35 23.42	0145 Q02 52.35 −47.28 28.06	0154 R02 56.46 −55.21 32.71	0163 S02 25.52 17.93 5.3	0172 T02 31.42 8.41 6.75
03	0092 K03 28.64 4.18 −5.3	0101 L03 32.76 −3.57 −5.1	0110 M03 36.87 −11.51 −0.45	0119 N03 40.98 −19.44 4.19	0128 O03 45.09 −27.37 8.84	0137 P03 49.2 −35.31 13.48	0146 Q03 53.31 −43.24 18.13	0155 R03 57.42 −51.17 22.78	0164 S03 25.54 19.16 −2.05	0173 T03 31.45 9.65 −0.6
04	0093 K04 29.61 8.05 −10.78	0102 L04 33.72 0.29 −10.58	0111 M04 37.83 −7.46 −10.38	0120 N04 41.94 −15.4 −5.73	0129 O04 46.06 −23.33 −1.09	0138 P04 50.17 −31.26 3.55	0147 Q04 54.28 −39.2 8.2	0156 R04 58.39 −47.13 12.84	0165 S04 26.5 23.03 −7.53	0174 T04 32.41 13.52 −6.09
05	0094 K05 30.57 11.92 −16.27	0103 L05 34.68 4.16 −16.07	0112 M05 38.8 −3.59 −15.87	0121 N05 42.91 −11.36 −15.67	0130 O05 47.02 −19.29 −11.02	0139 P05 51.13 −27.22 −6.37	0148 Q05 55.24 −35.16 −1.72	0157 R05 59.35 −43.08 2.91	0166 S05 27.47 26.9 −13.02	0175 T05 33.37 17.38 −11.58
06	0095 K06 31.54 15.78 −21.76	0104 L06 35.65 8.02 −21.56	0113 M06 39.76 0.26 −21.35	0122 N06 43.87 −7.49 −21.15	0131 O06 47.99 −15.25 −20.95	0140 P06 52.1 −23.18 −16.3	0149 Q06 56.21 −31.11 −11.66	0158 R06 60.32 −39.04 −7.01	0167 S06 28.43 30.77 −18.51	0176 T06 34.34 21.25 −17.06
07	0096 K07 32.5 19.65 −27.24	0105 L07 36.61 11.89 −27.04	0114 M07 40.72 4.13 −26.84	0123 N07 44.84 −3.62 −26.64	0132 O07 48.95 −11.38 −26.44	0141 P07 53.06 −19.14 −26.24	0150 Q07 57.17 −27.07 −21.59	0159 R07 61.28 −35.0 −16.94	0168 S07 29.39 34.64 −23.99	0177 T07 35.3 25.12 −22.55
08	0097 K08 33.46 23.52 −32.73	0106 L08 37.58 15.76 −32.53	0115 M08 41.69 8.0 −32.33	0124 N08 45.8 0.24 −32.13	0133 O08 49.91 −7.51 −31.92	0142 P08 54.03 −15.27 −31.72	0151 Q08 58.14 −23.03 −31.52	0160 R08 62.25 −30.96 −26.88	0169 S08 30.36 38.51 −29.48	0178 T08 36.26 28.99 −28.03
09	0098 K09 34.43 27.39 −38.21	0107 L09 38.54 19.63 −38.01	0116 M09 42.65 11.87 −37.81	0125 N09 46.76 4.11 −37.61	0134 O09 50.88 −3.64 −37.41	0143 P09 54.99 −11.4 −37.2	0152 Q09 59.1 −19.16 −37.0	0161 R09 63.21 −26.92 −36.8	0170 S09 31.32 42.37 −34.96	0179 T09 37.23 32.86 −33.52
10	0333 K10 38.27 23.34 31.3	0342 L10 43.58 13.78 36.81	0351 M10 48.88 4.22 42.32	0360 N10 54.19 −5.32 47.84	0369 O10 58.3 −13.26 52.48	0378 P10 62.41 −21.19 57.13	0387 Q10 66.52 −29.13 61.78	0396 R10 70.63 −37.05 66.42	0405 S10 36.72 40.99 32.36	0414 T10 42.02 31.44 37.87
11	0334 K11 38.9 24.61 19.88	0343 L11 44.21 15.05 25.39	0352 M11 49.51 5.5 30.91	0361 N11 54.82 −4.05 36.42	0370 O11 58.93 −11.99 41.07	0379 P11 63.04 −19.92 45.71	0388 Q11 67.15 −27.86 50.36	0397 R11 71.26 −35.78 55.01	0406 S11 36.74 42.23 25.0	0415 T11 42.65 32.71 26.45
12	0335 K12 38.93 25.85 12.52	0344 L12 44.84 16.33 13.97	0353 M12 50.14 6.77 19.48	0362 N12 55.45 −2.78 24.99	0371 O12 59.56 −10.72 29.64	0380 P12 63.67 −18.65 34.29	0389 Q12 67.78 −26.58 38.93	0398 R12 71.89 −34.51 43.58	0407 S12 36.76 43.47 17.65	0416 T12 42.67 33.95 19.09
13	0336 K13 38.95 27.08 5.16	0345 L13 44.86 17.56 6.61	0354 M13 50.77 8.04 8.05	0363 N13 56.08 −1.51 13.57	0372 O13 60.19 −9.45 18.21	0381 P13 64.3 −17.38 22.86	0390 Q13 68.41 −25.31 27.51	0399 R13 72.52 −33.24 32.15	0408 S13 36.79 44.7 10.29	0417 T13 42.69 35.19 11.73
14	0337 K14 38.98 28.32 −2.19	0346 L14 44.89 18.8 −0.74	0355 M14 50.8 9.27 0.69	0364 N14 56.71 −0.24 2.13	0373 O14 60.82 −8.17 6.79	0382 P14 64.93 −16.11 11.43	0391 Q14 69.04 −24.04 16.08	0400 R14 73.15 −31.97 20.73	0409 S14 36.81 45.94 2.93	0418 T14 42.72 36.42 4.37
15	0338 K15 39.94 32.19 −7.67	0347 L15 45.85 22.67 −6.23	0356 M15 51.76 13.14 −4.78	0365 N15 57.67 3.62 −3.34	0374 O15 61.78 −4.13 −3.14	0383 P15 65.89 −12.07 1.5	0392 Q15 70.0 −20.0 6.15	0401 R15 74.11 −27.93 10.79	0410 S15 36.83 47.17 −4.42	0419 T15 42.74 37.66 −2.98
16	0339 K16 40.9 36.06 −13.16	0348 L16 46.81 26.54 −11.71	0357 M16 52.72 17.01 −10.27	0366 N16 58.63 7.49 −8.82	0375 O16 62.75 −0.26 −8.62	0384 P16 66.86 −8.02 −8.42	0393 Q16 70.97 −15.96 −3.77	0402 R16 75.08 −23.88 0.86	0411 S16 37.8 51.04 −9.91	0420 T16 43.7 41.53 −8.46
17	0340 K17 41.87 39.93 −18.64	0349 L17 47.78 30.4 −17.2	0358 M17 53.69 20.88 −15.75	0367 N17 59.6 11.36 −14.31	0376 O17 63.71 3.6 −14.11	0385 P17 67.82 −4.15 −13.91	0394 Q17 71.93 −11.91 −13.71	0403 R17 76.04 −19.84 −9.06	0412 S17 38.76 54.91 −15.39	0421 T17 44.67 45.4 −13.95
18	0341 K18 42.83 43.79 −24.13	0350 L18 48.74 34.27 −22.68	0359 M18 54.65 24.75 −21.24	0368 N18 60.56 15.22 −19.79	0377 O18 64.67 7.46 −19.59	0386 P18 68.78 −0.29 −19.39	0395 Q18 72.9 −8.05 −19.19	0404 R18 77.01 −15.8 −18.99	0413 S18 39.73 58.78 −20.87	0422 T18 45.63 49.26 −19.43
19	0576 K19 49.5 47.65 51.0	0585 L19 54.8 38.09 56.51	0594 M19 60.11 28.53 62.03	0603 N19 65.41 18.97 67.54	0612 O19 70.71 9.41 73.05	0621 P19 76.02 −0.14 78.56	0630 Q19 81.32 −9.7 84.08	0639 R19 85.43 −17.62 88.72	0648 S19 47.94 65.29 52.06	0657 T19 53.24 55.74 57.56
20	0577 K20 50.13 48.92 39.58	0586 L20 55.43 39.36 45.1	0595 M20 60.74 29.8 50.61	0604 N20 66.04 20.24 56.12	0613 O20 71.34 10.68 61.63	0622 P20 76.65 1.12 67.15	0631 Q20 81.95 −8.43 72.66	0640 R20 86.06 −16.35 77.3	0649 S20 47.96 66.53 44.7	0658 T20 53.87 57.01 46.15
21	0578 K21 50.15 50.15 32.23	0587 L21 56.06 40.63 33.67	0596 M21 61.37 31.07 39.18	0605 N21 66.67 21.51 44.69	0614 O21 71.97 11.95 50.21	0623 P21 77.28 2.39 55.72	0632 Q21 82.58 −7.15 61.23	0641 R21 86.69 −15.08 65.88	0650 S21 47.98 67.76 37.34	0659 T21 53.89 58.25 38.79
22	0579 K22 50.18 51.39 24.87	0588 L22 56.08 41.87 26.31	0597 M22 62.0 32.34 27.76	0606 N22 67.3 22.78 33.27	0615 O22 72.6 13.22 38.78	0624 P22 77.91 3.67 44.29	0633 Q22 83.21 −5.88 49.81	0642 R22 87.32 −13.81 54.45	0651 S22 48.01 69.0 29.98	0660 T22 53.91 59.48 31.43
23	0580 K23 50.2 52.62 17.51	0589 L23 56.11 43.1 18.95	0598 M23 62.02 33.58 20.4	0607 N23 67.93 24.05 21.84	0616 O23 73.23 14.5 27.35	0625 P23 78.54 4.94 32.87	0634 Q23 83.84 −4.61 38.38	0643 R23 87.95 −12.54 43.02	0652 S23 48.03 70.24 22.63	0661 T23 53.94 60.72 24.07
24	0581 K24 50.22 53.86 10.15	0590 L24 56.13 44.34 11.59	0599 M24 62.04 34.81 13.04	0608 N24 67.95 25.29 14.48	0617 O24 73.86 15.77 15.93	0626 P24 79.17 6.21 21.44	0635 Q24 84.47 −3.34 26.95	0644 R24 88.58 −11.27 31.6	0653 S24 48.06 71.47 15.27	0662 T24 53.96 61.96 16.71
25	0582 K25 50.25 55.1 2.79	0591 L25 56.16 45.57 4.23	0600 M25 62.07 36.05 5.68	0609 N25 67.98 26.53 7.12	0618 O25 73.89 17.0 8.57	0627 P25 79.8 7.48 10.01	0636 Q25 85.1 −2.07 15.53	0645 R25 89.21 −10.0 20.17	0654 S25 48.08 72.71 7.91	0663 T25 53.98 63.19 9.35
26	0583 K26 50.27 56.33 −4.56	0592 L26 56.18 46.81 −3.11	0601 M26 62.09 37.29 −1.67	0610 N26 68.0 27.76 −0.22	0619 O26 73.91 18.24 1.21	0628 P26 79.82 8.72 2.66	0637 Q26 85.73 −0.8 4.09	0646 R26 89.84 −8.73 8.75	0655 S26 48.1 73.94 0.55	0664 T26 54.01 64.43 1.99
27	0584 K27 51.23 60.2 −10.04	0593 L27 57.14 50.68 −8.6	0602 M27 63.05 41.15 −7.15	0611 N27 68.96 31.63 −5.71	0620 O27 74.87 22.1 −4.26	0629 P27 80.78 12.58 −2.82	0638 Q27 86.69 3.06 −1.37	0647 R27 90.8 −4.69 −1.17	0656 S27 48.13 75.18 −6.79	0665 T27 54.03 65.66 −5.35

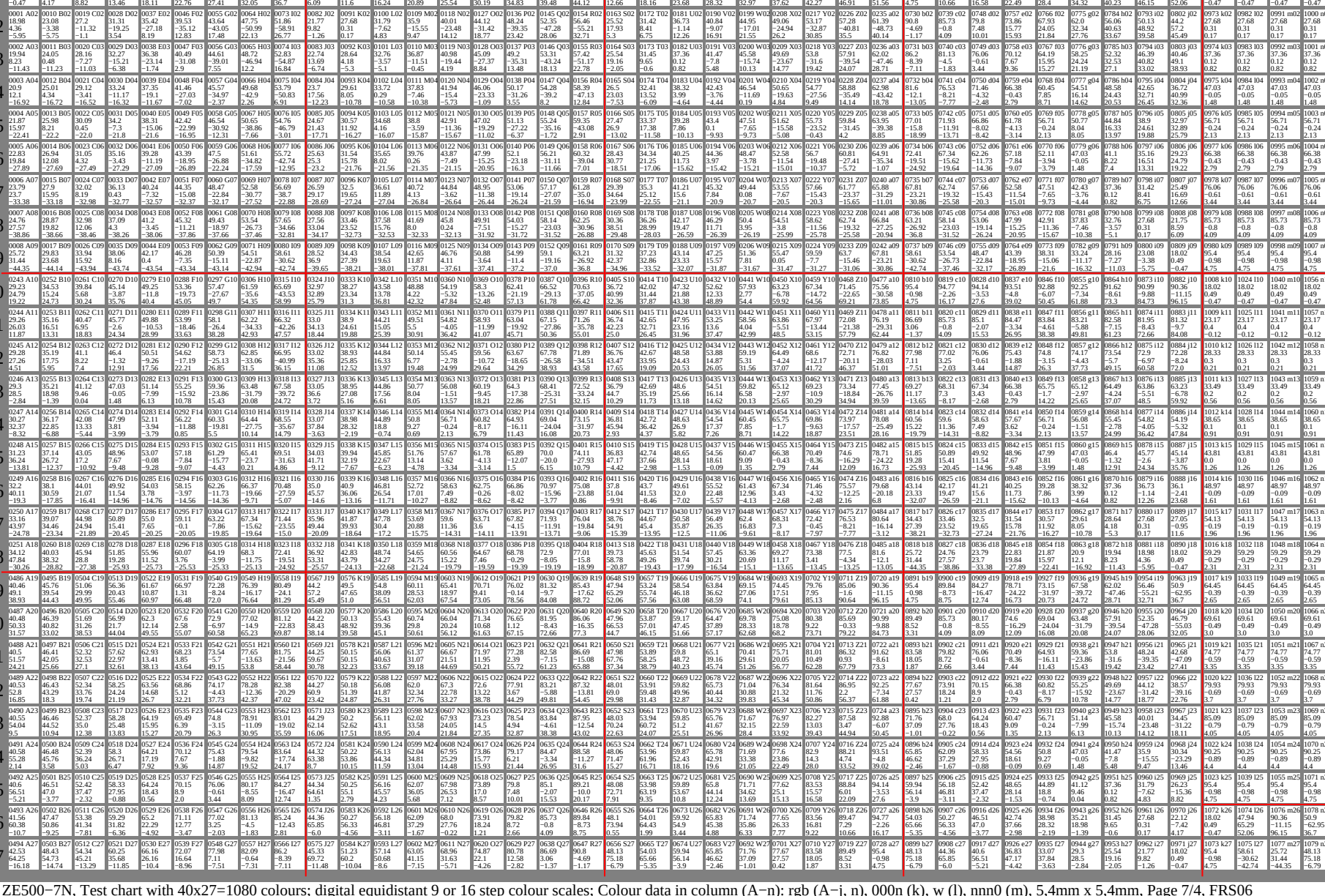
	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 36.1 −2.41 23.68	0189 V01 40.21 −10.34 28.32	0198 W01 44.32 −18.28 32.97	0207 X01 48.43 −26.21 37.62	0216 Y01 52.54 −34.14 42.27	0225 Z01 56.65 −42.08 46.91	0234 a01 60.76 −50.01 51.56	0729 b01 95.4 −0.98 4.75	0738 c01 89.47 7.29 10.66	0747 d01 83.53 15.57 16.58
02	0181 U02 36.73 −1.14 12.26	0190 V02 40.84 −9.07 16.91	0199 W02 44.95 −17.01 21.55	0208 X02 49.06 −24.94 26.2	0217 Y02 53.17 −32.87 30.85	0226 Z02 57.28 −40.81 35.5	0235 a02 61.39 −48.73 40.14	0730 b02 90.8 −4.69 −1.17	0739 c02 85.73 −0.8 4.09	0748 d02 79.8 7.48 10.01
03	0182 U03 37.36 0.12 0.82	0191 V03 41.47 −7.8 5.48	0200 W03 45.58 −15.74 10.13	0209 X03 49.69 −23.67 14.77	0218 Y03 53.8 −31.6 19.42	0227 Z03 57.91 −39.54 24.07	0236 a03 62.02 −47.46 28.71	0731 b03 86.2 −8.39 −7.11	0740 c03 81.13 −4.5 −1.83	0749 d03 76.06 −0.61 3.44
04	0183 U04 38.32 3.99 −4.64	0192 V04 42.43 −3.76 −4.44	0201 W04 46.54 −11.69 0.19	0210 X04 50.65 −19.63 4.84	0219 Y04 54.77 −27.56 9.49	0228 Z04 58.88 −35.49 14.14	0237 a04 62.98 −43.42 18.78	0732 b04 81.6 −12.1 −13.05	0741 c04 76.53 −8.21 −7.77	0750 d04 71.46 −4.32 −2.48
05	0184 U05 39.28 7.86 −10.13	0193 V05 43.4 0.1 −9.93	0202 W05 47.51 −7.65 −9.73	0211 X05 51.62 −15.58 −5.08	0220 Y05 55.73 −23.52 −0.43	0229 Z05 59.84 −31.45 4.2	0238 a05 63.95 −39.38 8.85	0733 b05 77.01 −15.8 −18.99	0742 c05 71.93 −11.91 −13.71	0751 d05 66.86 −8.02 −8.42
06	0185 U06 40.25 11.73 −15.62	0194 V06 44.36 3.97 −15.42	0203 W06 48.47 −3.78 −15.21	0212 X06 52.58 −11.54 −15.01	0221 Y06 56.7 −19.48 −10.37	0230 Z06 60.81 −27.41 −5.72	0239 a06 64.91 −35.34 −1.07	0734 b06 72.41 −19.51 −24.92	0743 c06 67.34 −15.62 −19.64	0752 d06 62.26 −11.73 −14.36
07	0186 U07 41.21 15.6 −21.1	0195 V07 45.32 7.84 −20.9	0204 W07 49.44 0.08 −20.7	0213 X07 53.55 −7.67 −20.5	0222 Y07 57.66 −15.43 −20.3	0231 Z07 61.77 −23.37 −15.65	0240 a07 65.88 −31.29 −11.01	0735 b07 67.81 −23.21 −30.86	0744 c07 62.74 −19.32 −25.58	0753 d07 57.66 −15.43 −20.3
08	0187 U08 42.17 19.47 −26.59	0196 V08 46.29 11.71 −26.39	0205 W08 50.4 3.95 −26.19	0214 X08 54.51 −3.8 −25.99	0223 Y08 58.62 −11.56 −25.78	0232 Z08 62.74 −19.32 −25.58	0241 a08 66.84 −27.25 −20.94	0736 b08 63.21 −26.92 −36.8	0745 c08 58.14 −23.03 −31.52	0754 d08 53.06 −19.14 −26.24
09	0188 U09 43.14 23.33 −32.07	0197 V09 47.25 15.57 −31.87	0206 W09 51.36 7.81 −31.67	0215 X09 55.47 0.05 −31.47	0224 Y09 59.59 −7.7 −31.27	0233 Z09 63.7 −15.46 −31.06	0242 a09 67.81 −23.21 −30.86	0737 b09 58.61 −30.62 −42.74	0746 c09 53.54 −26.73 −37.46	0755 d09 48.47 −22.84 −32.17
10	0423 U10 47.32 21.88 43.38	0432 V10 52.62 12.33 48.89	0441 W10 57.93 2.77 54.4	0450 X10 63.23 −6.78 59.92	0459 Y10 67.34 −14.72 64.56	0468 Z10 71.45 −22.65 69.21	0477 a10 75.56 −30.58 73.85	0810 b10 95.4 −0.98 4.75	0819 c10 94.77 −2.26 16.17	0828 d10 94.14 −3.53 27.6
11	0424 U11 47.95 23.16 31.96	0433 V11 53.25 13.6 37.47	0442 W11 58.56 4.04 42.99	0451 X11 63.86 −5.51 48.5	0460 Y11 67.97 −13.44 53.15	0469 Z11 72.08 −21.38 57.79	0478 a11 76.19 −29.31 62.44	0811 b11 86.69 3.06 −1.37	0820 c11 85.73 −0.8 4.09	0829 d11 85.1 −2.07 15.53
12	0425 U12 48.58 24.43 20.53	0434 V12 53.88 14.87 26.05	0443 W12 59.19 5.31 31.56	0452 X12 64.49 −4.24 37.07	0461 Y12 68.6 −12.17 41.72	0470 Z12 72.71 −20.11 46.37	0479 a12 76.82 −28.03 51.01	0812 b12 77.98 7.11 −7.51	0821 c12 77.02 3.25 −2.03	0830 d12 76.06 −0.61 3.44
13	0426 U13 48.6 25.66 13.18	0435 V13 54.51 16.14 14.62	0444 W13 59.82 6.58 20.13	0453 X13 65.12 −2.97 25.65	0462 Y13 69.23 −10.9 30.29	0471 Z13 73.34 −18.84 34.94	0480 a13 77.45 −26.76 39.59	0813 b13 69.27 11.17 −13.65	0822 c13 68.31 7.3 −8.17	0831 d13 67.34 3.43 −2.68
14	0427 U14 48.63 26.9 5.82	0436 V14 54.54 17.37 7.26	0445 W14 60.45 7.85 8.71	0454 X14 65.75 −1.7 14.22	0463 Y14 69.86 −9.63 18.87	0472 Z14 73.97 −17.57 23.51	0481 a14 78.08 −25.49 28.16	0814 b14 60.56 15.22 −19.79	0823 c14 59.6 11.36 −14.31	0832 d14 58.63 7.49 −8.82
15	0428 U15 48.65 28.14 −1.53	0437 V15 54.56 18.61 −0.09	0446 W15 60.47 9.09 1.35	0455 X15 66.38 −0.43 2.79	0464 Y15 70.49 −8.36 7.44	0473 Z15 74.6 −16.29 12.09	0482 a15 78.71 −24.22 16.73	0815 b15 51.85 19.28 −25.93	0824 c15 50.89 15.41 −20.45	0833 d15 49.92 11.54 −14.96
16	0429 U16 49.61 32.0 −7.02	0438 V16 55.52 22.48 −5.57	0447 W16 61.43 12.96 −4.13	0456 X16 67.34 3.43 −2.68	0465 Y16 71.46 −4.32 −2.48	0474 Z16 75.57 −12.25 2.16	0483 a16 79.68 −20.18 6.8	0816 b16 43.14 23.33 −32.07	0825 c16 42.17 19.47 −26.59	0834 d16 41.21 15.6 −21.1
17	0430 U17 50.58 35.87 −12.5	0439 V17 56.49 26.35 −11.06	0448 W17 62.4 16.83 −9.61	0457 X17 68.31 7.3 −8.17	0466 Y17 72.42 −0.45 −7.97	0475 Z17 76.53 −8.21 −7.77	0484 a17 80.64 −16.14 −3.12	0817 b17 34.43 27.39 −38.21	0826 c17 33.46 23.52 −32.73	0835 d17 32.5 19.65 −27.24
18	0431 U18 51.54 39.74 −17.99	0440 V18 57.45 30.21 −16.54	0449 W18 63.36 20.69 −15.1	0458 X18 69.27 11.17 −13.65	0467 Y18 73.38 3.41 −13.45	0476 Z18 77.5 −4.34 −13.25	0485 a18 81.6 −12.1 −13.05	0818 b18 25.72 31.44 −44.35	0827 c18 24.76 27.57 −38.86	0836 d18 23.79 23.7 −33.38
19	0666 U19 58.54 46.18 63.08	0675 V19 63.84 36.62 68.59	0684 W19 69.15 27.06 74.1	0693 X19 74.45 17.51 79.61	0702 Y19 79.76 7.95 85.13	0711 Z19 85.06 −1.6 90.64	0720 a19 90.36 −11.15 96.15	0891 b19 95.4 −0.98 4.75	0900 c19 89.84 −8.73 8.75	0909 d19 84.27 −16.47 12.74
20	0667 U20 59.17 47.45 51.66	0676 V20 64.47 37.89 57.17	0685 W20 69.78 28.33 62.68	0694 X20 75.08 18.78 68.2	0703 Y20 80.38 9.22 73.71	0712 Z20 85.69 −0.33 79.22	0721 a20 90.99 −9.88 84.73	0892 b20 89.49 8.52 3.31	0901 c20 85.73 −0.8 4.09	0910 d20 80.17 −8.55 8.09
21	0668 U21 59.8 48.72 40.23	0677 V21 65.1 39.16 45.74	0686 W21 70.41 29.61 51.26	0695 X21 75.71 20.05 56.77	0704 Y21 81.01 10.49 62.28	0713 Z21 86.32 0.93 67.79	0722 a21 91.62 −8.61 73.3	0893 b21 83.58 18.05 1.87	0902 c21 79.82 8.72 2.66	0911 d21 76.06 −0.61 3.44
22	0669 U22 59.82 49.96 32.87	0678 V22 65.73 40.44 34.32	0687 W22 71.04 30.88 39.83	0696 X22 76.34 21.32 45.34	0705 Y22 81.64 11.76 50.86	0714 Z22 86.95 2.2 56.37	0723 a22 92.25 −7.34 61.88	0894 b22 77.67 27.57 0.42	0903 c22 73.91 18.24 1.21	0912 d22 70.15 8.9 2.0
23	0670 U23 59.85 51.2 25.51	0679 V23 65.76 41.67 26.96	0688 W23 71.67 32.15 28.4	0697 X23 76.97 22.59 33.92	0706 Y23 82.27 13.03 39.43	0715 Z23 87.58 3.47 44.94	0724 a23 92.88 −6.07 50.45	0895 b23 71.76 37.09 −1.01	0904 c23 68.0 27.76 −0.22	0913 d23 64.24 18.43 0.56
24	0671 U24 59.87 52.43 18.16	0680 V24 65.78 42.91 19.6	0689 W24 71.69 33.38 21.05	0698 X24 77.6 23.86 22.49	0707 Y24 82.9 14.3 28.0	0716 Z24 88.21 4.74 33.52	0725 a24 93.51 −4.8 39.02	0896 b24 65.85 46.62 −2.46	0905 c24 62.09 37.29 −1.67	0914 d24 58.33 27.95 −0.88
25	0672 U25 59.89 53.67 10.8	0681 V25 65.8 44.14 12.24	0690 W25 71.71 34.62 13.69	0699 X25 77.62 25.1 15.13	0708 Y25 83.53 15.57 16.58	0717 Z25 88.84 6.01 22.09	0726 a25 94.14 −3.53 27.6	0897 b25 59.94 56.14 −3.9	0906 c25 56.18 46.81 −3.11	0915 d25 52.42 37.47 −2.32
26	0673 U26 59.92 54.9 3.44	0682 V26 65.83 45.38 4.88	0691 W26 71.74 35.86 6.33	0700 X26 77.65 26.33 7.77	0709 Y26 83.56 16.81 9.22	0718 Z26 89.47 7.29 10.66	0727 a26 94.77 −2.26 16.17	0898 b26 54.03 65.66 −5.35	0907 c26 50.27 56.33 −4.56	0916 d26 46.51 47.0 −3.77
27	0674 U27 59.94 56.14 −3.9	0683 V27 65.85 46.62 −2.46	0692 W27 71.76 37.09 −1.01	0701 X27 77.67 27.57 0.42	0710 Y27 83.58 18.05 1.87	0719 Z27 89.49 8.52 3.31	0728 a27 95.4 −0.98 4.75	0899 b27 48.13 75.18 −6.79	0908 c27 44.36 65.85 −6.0	0917 d27 40.6 56.51 −5.21

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 77.6 23.86 22.49	0765 f01 71.67 32.15 28.4	0774 g01 65.73 40.44 34.32	0783 h01 59.8 48.72 40.23	0792 i01 53.87 57.01 46.15	0801 j01 47.94 65.29 52.06	0972 k01 18.02 0.49 −0.47	0981 l01 18.02 0.49 −0.47	0990 m01 18.02 0.49 −0.47	0999 n01 18.02 0.49 −0.47
02	0757 e02 73.86 15.77 15.93	0766 f02 67.93 24.05 21.84	0775 g02 62.0 32.34 27.76	0784 h02 56.06 40.63 33.67	0793 i02 50.13 48.92 39.58	0802 j02 44.2 57.2 45.49	0973 k02 27.68 0.31 0.17	0982 l02 27.68 0.31 0.17	0991 m02 27.68 0.31 0.17	1000 n02 27.68 0.31 0.17
03	0758 e03 70.12 7.67 9.36	0767 f03 64.19 15.95 15.27	0776 g03 58.25 24.24 21.19	0785 h03 52.32 32.53 27.1	0794 i03 46.39 40.82 33.02	0803 j03 40.46 49.1 38.93	0974 k03 37.36 0.12 0.82	0983 l03 37.36 0.12 0.82	0992 m03 37.36 0.12 0.82	1001 n03 37.36 0.12 0.82
04	0759 e04 66.38 −0.43 2.79	0768 f04 60.45 7.85 8.71	0777 g04 54.51 16.14 14.62	0786 h04 48.58 24.43 20.53	0795 i04 42.65 32.71 26.45	0804 j04 36.72 40.99 32.36	0975 k04 47.03 −0.05 1.48	0984 l04 47.03 −0.05 1.48	0993 m04 47.03 −0.05 1.48	1002 n04 47.03 −0.05 1.48
05	0760 e05 61.78 −4.13 −3.14	0769 f05 56.71 −0.24 2.13	0778 g05 50.77 8.04 8.05	0787 h05 44.84 16.33 13.97	0796 i05 38.9 24.61 19.88	0805 j05 32.97 32.89 25.79	0976 k05 56.71 −0.24 2.13	0985 l05 56.71 −0.24 2.13	0994 m05 56.71 −0.24 2.13	1003 n05 56.71 −0.24 2.13
06	0761 e06 57.18 −7.84 −9.07	0770 f06 52.11 −3.94 −3.79	0779 g06 47.03 −0.05 1.48	0788 h06 41.1 8.22 7.4	0797 i06 35.16 16.51 13.31	0806 j06 29.23 24.79 19.22	0977 k06 66.38 −0.43 2.79	0986 l06 66.38 −0.43 2.79	0995 m06 66.38 −0.43 2.79	1004 n06 66.38 −0.43 2.79
07	0762 e07 52.58 −11.54 −15.01	0771 f07 47.51 −7.65 −9.73	0780 g07 42.43 −3.76 −4.44	0789 h07 37.36 0.12 0.82	0798 i07 31.42 8.41 6.75	0807 j07 25.49 16.69 12.66	0978 k07 76.06 −0.61 3.44	0987 l07 76.06 −0.61 3.44	0996 m07 76.06 −0.61 3.44	1005 n07 76.06 −0.61 3.44
08	0763 e08 47.99 −15.25 −20.95	0772 f08 42.91 −11.36 −15.67	0781 g08 37.83 −7.46 −10.38	0790 h08 32.76 −3.57 −5.1	0799 i08 27.68 0.31 0.17	0808 j08 21.75 8.59 6.09	0979 k08 85.73 −0.8 4.09	0988 l08 85.73 −0.8 4.09	0997 m08 85.73 −0.8 4.09	1006 n08 85.73 −0.8 4.09
09	0764 e09 43.39 −18.95 −26.89	0773 f09 38.31 −15.06 −21.6	0782 g09 33.24 −11.17 −16.32	0791 h09 28.16 −7.27 −11.03	0800 i09 23.08 −3.38 −5.75	0809 j09 18.02 0.49 −0.47	0980 k09 95.4 −0.98 4.75	0989 l09 95.4 −0.98 4.75	0998 m09 95.4 −0.98 4.75	1007 n09 95.4 −0.98 4.75
10	0837 e10 93.51 −4.8 39.02	0846 f10 92.88 −6.07 50.45	0855 g10 92.25 −7.34 61.88	0864 h10 91.62 −8.61 73.3	0873 i10 90.99 −9.88 84.73	0882 j10 90.36 −11.15 96.15	1008 k10 18.02 0.49 −0.47	1024 l10 18.02 0.49 −0.47	1040 m10 18.02 0.49 −0.47	1056 n10 18.02 0.49 −0.47
11	0838 e11 84.47 −3.34 26.95	0847 f11 83.84 −4.61 38.38	0856 g11 83.21 −5.88 49.81	0865 h11 82.58 −7.15 61.23	0874 i11 81.95 −8.43 72.66	0883 j11 81.32 −9.7 84.08	1009 k11 23.17 0.4 −0.12	1025 l11 23.17 0.4 −0.12	1041 m11 23.17 0.4 −0.12	1057 n11 23.17 0.4 −0.12
12	0839 e12 75.43 −1.88 14.87	0848 f12 74.8 −3.15 26.3	0857 g12 74.17 −4.43 37.73	0866 h12 73.54 −5.7 49.15	0875 i12 72.9 −6.97 60.58	0884 j12 72.28 −8.24 72.0	1010 k12 28.33 0.3 0.21	1026 l12 28.33 0.3 0.21	1042 m12 28.33 0.3 0.21	1058 n12 28.33 0.3 0.21
13	0840 e13 66.38 −0.43 2.79	0849 f13 65.75 −1.7 14.22	0858 g13 65.12 −2.97 25.65	0867 h13 64.49 −4.24 37.07	0876 i13 63.86 −5.51 48.5	0885 j13 63.23 −6.78 59.92	1011 k13 33.49 0.2 0.56	1027 l13 33.49 0.2 0.56	1043 m13 33.49 0.2 0.56	1059 n13 33.49 0.2 0.56
14	0841 e14 57.67 3.62 −3.34	0850 f14 56.71 −0.24 2.13	0859 g14 56.08 −1.51 13.57	0868 h14 55.45 −2.78 24.99	0877 i14 54.82 −4.05 36.42	0886 j14 54.19 −5.32 47.84	1012 k14 38.65 0.1 0.91	1028 l14 38.65 0.1 0.91	1044 m14 38.65 0.1 0.91	1060 n14 38.65 0.1 0.91
15	0842 e15 48.96 7.67 −9.48	0851 f15 47.99 3.81 −3.99	0860 g15 47.03 −0.05 1.48	0869 h15 46.4 −1.32 12.91	0878 i15 45.77 −2.6 24.34	0887 j15 45.14 −3.87 35.76	1013 k15 43.81 0.0 1.26	1029 l15 43.81 0.0 1.26	1045 m15 43.81 0.0 1.26	1061 n15 43.81 0.0 1.26
16	0843 e16 40.25 11.73 −15.62	0852 f16 39.28 7.86 −10.13	0861 g16 38.32 3.99 −4.64	0870 h16 37.36 0.12 0.82	0879 i16 36.73 −1.14 12.26	0888 j16 36.1 −2.41 23.68	1014 k16 48.97 −0.09 1.61	1030 l16 48.97 −0.09 1.61	1046 m16 48.97 −0.09 1.61	1062 n16 48.97 −0.09 1.61
17	0844 e17 31.54 15.78 −21.76	0853 f17 30.57 11.92 −16.27	0862 g17 29.61 8.05 −10.78	0871 h17 28.64 4.18 −5.3	0880 i17 27.68 0.31 0.17	0889 j17 27.05 −0.95 11.6	1015 k17 54.13 −0.19 1.96	1031 l17 54.13 −0.19 1.96	1047 m17 54.13 −0.19 1.96	1063 n17 54.13 −0.19 1.96
18	0845 e18 22.83 19.84 −27.89	0854 f18 21.87 15.97 −22.41	0863 g18 20.9 12.1 −16.92	0872 h18 19.94 8.23 −11.43	0881 i18 18.98 4.36 −5.95	0890 j18 18.02 0.49 −0.47	1016 k18 59.29 −0.29 2.31	1032 l18 59.29 −0.29 2.31	1048 m18 59.29 −0.29 2.31	1064 n18 59.29 −0.29 2.31
19	0918 e19 78.71 −24.22 16.73	0927 f19 73.15 −31.97 20.73	0936 g19 67.58 −39.72 24.72	0945 h19 62.02 −47.46 28.71	0954 i19 56.46 −55.21 32.71	0963 j19 50.9 −62.95 36.7	1017 k19 64.45 −0.39 2.65	1033 l19 64.45 −0.39 2.65	1049 m19 64.45 −0.39 2.65	1065 n19 64.45 −0.39 2.65
20	0919 e20 74.6 −16.29 12.09	0928 f20 69.04 −24.04 16.08	0937 g20 63.48 −31.79 20.08	0946 h20 57.91 −39.54 24.07	0955 i20 52.35 −47.28 28.06	0964 j20 46.79 −55.03 32.05	1018 k20 69.61 −0.49 3.0	1034 l20 69.61 −0.49 3.0	1050 m20 69.61 −0.49 3.0	1066 n20 69.61 −0.49 3.0
21	0920 e21 70.49 −8.36 7.44	0929 f21 64.93 −16.11 11.43	0938 g21 59.36 −23.86 15.43	0947 h21 53.8 −31.6 19.42	0956 i21 48.24 −39.35 23.42	0965 j21 42.68 −47.09 27.41	1019 k21 74.77 −0.59 3.35	1035 l21 74.77 −0.59 3.35	1051 m21 74.77 −0.59 3.35	1067 n21 74.77 −0.59 3.35
22	0921 e22 66.38 −0.43 2.79	0930 f22 60.82 −8.17 6.79	0939 g22 55.25 −15.92 10.78	0948 h22 49.69 −23.67 14.77	0957 i22 44.12 −31.42 18.77	0966 j22 38.57 −39.16 22.76	1020 k22 79.93 −0.69 3.7	1036 l22 79.93 −0.69 3.7	1052 m22 79.93 −0.69 3.7	1068 n22 79.93 −0.69 3.7
23	0922 e23 60.47 9.09 1.35	0931 f23 56.71 −0.24 2.13	0940 g23 51.14 −7.99 6.13	0949 h23 45.58 −15.74 10.13	0958 i23 40.01 −23.48 14.12	0967 j23 34.45 −31.22 18.11	1021 k23 85.09 −0.79 4.05	1037 l23 85.09 −0.79 4.05	1053 m23 85.09 −0.79 4.05	1069 n23 85.09 −0.79 4.05
24	0923 e24 54.56 18.61 −0.09	0932 f24 50.8 9.27 0.69	0941 g24 47.03 −0.05 1.48	0950 h24 41.47 −7.8 5.48	0959 i24 35.9 −15.55 9.47	0968 j24 30.34 −23.29 13.46	1022 k24 90.25 −0.89 4.4	1038 l24 90.25 −0.89 4.4	1054 m24 90.25 −0.89 4.4	1070 n24 90.25 −0.89 4.4
25	0924 e25 48.65 28.14 −1.53	0933 f25 44.89 18.8 −0.74	0942 g25 41.12 9.46 0.04	0951 h25 37.36 0.12 0.82	0960 i25 31.79 −7.62 4.83	0969 j25 26.23 −15.36 8.82	1023 k25 95.4 −0.98 4.75	1039 l25 95.4 −0.98 4.75	1055 m25 95.4 −0.98 4.75	1071 n25 95.4 −0.98 4.75
26	0925 e26 42.74 37.66 −2.98	0934 f26 38.98 28.32 −2.19	0943 g26 35.21 18.98 −1.39	0952 h26 31.45 9.65 −0.6	0961 i26 27.68 0.31 0.17	0970 j26 22.12 −7.42 4.17	1072 k26 18.02 0.49 −0.47	1074 l26 47.94 65.29 52.06	1076 m26 90.36 −11.15 96.15	1078 n26 50.9 −62.95 36.7
27	0926 e27 36.83 47.17 −4.42	0935 f27 33.07 37.84 −3.63	0944 g27 29.3 28.5 −2.84	0953 h27 25.54 19.16 −2.05	0962 i27 21.77 9.82 −1.26	0971 j27 18.02 0.49 −0.47	1073 k27 95.4 −0.98 4.75	1075 l27 58.61 −30.62 −42.74	1077 m27 25.72 31.44 −44.35	1079 n27 48.13 75.18 −6.79

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 6/4, TLS00

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems



See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 18.02 0.49 −0.47	0009 B01 22.12 −7.42 4.17	0018 C01 26.23 −15.36 8.82	0027 D01 30.34 −23.29 13.46	0036 E01 34.45 −31.22 18.11	0045 F01 38.57 −39.16 22.76	0054 G01 42.68 −47.09 27.41	0063 H01 46.79 −55.03 32.05	0072 I01 50.9 −62.95 36.7	0081 J01 21.75 8.59 6.09
02	0001 A02 18.98 4.36 −5.95	0010 B02 23.08 −3.38 −5.75	0019 C02 27.2 −11.32 −1.1	0028 D02 31.31 −19.25 3.54	0037 E02 35.42 −27.18 8.19	0046 F02 39.53 −35.12 12.83	0055 G02 43.64 −43.05 17.48	0064 H02 47.75 −50.99 22.13	0073 I02 51.86 −58.91 26.77	0082 J02 21.77 9.82 −1.26
03	0002 A03 19.94 8.23 −11.43	0011 B03 24.05 0.48 −11.23	0020 C03 28.16 −7.27 −11.03	0029 D03 32.27 −15.21 −6.38	0038 E03 36.38 −23.14 −1.74	0047 F03 40.49 −31.08 2.9	0056 G03 44.61 −39.01 7.55	0065 H03 48.72 −46.94 12.2	0074 I03 52.83 −54.87 16.84	0083 J03 22.74 13.69 −6.74
04	0003 A04 20.9 12.1 −16.92	0012 B04 25.01 4.34 −16.72	0021 C04 29.12 −3.41 −16.52	0030 D04 33.24 −11.17 −16.32	0039 E04 37.35 −19.1 −11.67	0048 F04 41.46 −27.03 −7.02	0057 G04 45.57 −34.97 −2.37	0066 H04 49.68 −42.9 2.26	0075 I04 53.79 −50.83 6.91	0084 J04 23.7 17.56 −12.23
05	0004 A05 21.87 15.97 −22.41	0013 B05 25.98 8.21 −22.2	0022 C05 30.09 0.45 −22.0	0031 D05 34.2 −7.3 −21.8	0040 E05 38.31 −15.06 −21.6	0049 F05 42.42 −22.99 −16.95	0058 G05 46.54 −30.92 −12.31	0067 H05 50.65 −38.86 −7.66	0076 I05 54.76 −46.79 −3.01	0085 J05 24.67 21.43 −17.71
06	0005 A06 22.83 19.84 −27.89	0014 B06 26.94 12.08 −27.69	0023 C06 31.05 4.32 −27.49	0032 D06 35.16 −3.43 −27.29	0041 E06 39.28 −11.19 −27.09	0050 F06 43.39 −18.95 −26.89	0059 G06 47.5 −26.88 −22.24	0068 H06 51.61 −34.82 −17.59	0077 I06 55.72 −42.74 −12.95	0086 J06 25.63 25.3 −23.2
07	0006 A07 23.79 23.7 −33.38	0015 B07 27.9 15.95 −33.18	0024 C07 32.02 8.19 −32.98	0033 D07 36.13 0.43 −32.77	0042 E07 40.24 −7.32 −32.57	0051 F07 44.35 −15.08 −32.37	0060 G07 48.47 −22.84 −32.17	0069 H07 52.58 −30.77 −27.52	0078 I07 56.69 −38.7 −22.88	0087 J07 26.59 29.17 −28.69
08	0007 A08 24.76 27.57 −38.86	0016 B08 28.87 19.82 −38.66	0025 C08 32.98 12.06 −38.46	0034 D08 37.09 4.3 −38.26	0043 E08 41.2 −3.45 −38.06	0052 F08 45.32 −11.21 −37.86	0061 G08 49.43 −18.97 −37.66	0070 H08 53.54 −26.73 −37.46	0079 I08 57.65 −34.66 −32.81	0088 J08 27.56 33.04 −34.17
09	0008 A09 25.72 31.44 −44.35	0017 B09 29.83 23.68 −44.14	0026 C09 33.94 15.92 −43.94	0035 D09 38.06 8.16 −43.74	0044 E09 42.17 0.4 −43.54	0053 F09 46.28 −7.35 −43.34	0062 G09 50.39 −15.11 −43.14	0071 H09 54.51 −22.87 −42.94	0080 I09 58.61 −30.62 −42.74	0089 J09 28.52 36.9 −39.65
10	0243 A10 29.23 24.79 19.22	0252 B10 34.53 15.24 24.73	0261 C10 39.84 5.68 30.24	0270 D10 45.14 −3.87 35.76	0279 E10 49.25 −11.8 40.4	0288 F10 53.36 −19.73 45.05	0297 G10 57.47 −27.67 49.7	0306 H10 61.59 −35.6 54.35	0315 I10 65.69 −43.53 58.99	0324 J10 32.97 32.89 25.79
11	0244 A11 29.26 26.03 11.87	0253 B11 35.16 16.51 13.31	0262 C11 40.47 6.95 18.83	0271 D11 45.77 −2.6 24.34	0280 E11 49.88 −10.53 28.99	0289 F11 53.99 −18.46 33.63	0298 G11 58.1 −26.4 38.28	0307 H11 62.22 −34.33 42.93	0316 I11 66.32 −42.26 47.57	0325 J11 33.0 34.13 18.44
12	0245 A12 29.28 27.26 4.51	0254 B12 35.19 17.75 5.95	0263 C12 41.1 8.22 7.4	0272 D12 46.4 −1.32 12.91	0281 E12 50.51 −9.26 17.56	0290 F12 54.62 −17.19 22.21	0299 G12 58.73 −25.13 26.85	0308 H12 62.85 −33.06 31.5	0317 I12 66.95 −40.99 36.15	0326 J12 33.02 35.36 11.08
13	0246 A13 29.3 28.5 −2.84	0255 B13 35.21 18.98 −1.39	0264 C13 41.12 9.46 0.04	0273 D13 47.03 −0.05 1.48	0282 E13 51.14 −7.99 6.13	0291 F13 55.25 −15.92 10.78	0300 G13 59.36 −23.86 15.43	0309 H13 63.48 −31.79 20.08	0318 I13 67.58 −39.72 24.72	0327 J13 33.05 36.6 3.72
14	0247 A14 30.27 32.37 −8.32	0256 B14 36.17 22.85 −6.88	0265 C14 42.08 13.33 −5.44	0274 D14 47.99 3.81 −3.99	0283 E14 52.11 −3.94 −3.79	0292 F14 56.22 −11.88 0.85	0301 G14 60.33 −19.81 5.5	0310 H14 64.44 −27.75 10.14	0319 I14 68.55 −35.67 14.79	0328 J14 33.07 37.84 −3.63
15	0248 A15 31.23 36.24 −13.81	0257 B15 37.14 26.72 −12.37	0266 C15 43.05 17.2 −10.92	0275 D15 48.96 7.67 −9.48	0284 E15 53.07 −0.08 −9.28	0293 F15 57.18 −7.84 −9.07	0302 G15 61.29 −15.77 −4.43	0311 H15 65.41 −23.7 0.21	0320 I15 69.51 −31.63 4.86	0329 J15 34.03 41.71 −9.12
16	0249 A16 32.2 40.11 −19.3	0258 B16 38.1 30.59 −17.85	0267 C16 44.01 21.07 −16.41	0276 D16 49.92 11.54 −14.96	0285 E16 54.03 3.78 −14.76	0294 F16 58.15 −3.97 −14.56	0303 G16 62.26 −11.73 −14.36	0312 H16 66.37 −19.66 −9.71	0321 I16 70.48 −27.59 −5.07	0330 J16 35.0 45.57 −14.6
17	0250 A17 33.16 43.97 −24.78	0259 B17 39.07 34.46 −23.34	0268 C17 44.98 24.94 −21.89	0277 D17 50.89 15.41 −20.45	0286 E17 55.0 7.65 −20.25	0295 F17 59.11 −0.1 −20.05	0304 G17 63.22 −7.86 −19.85	0313 H17 67.34 −15.62 −19.64	0322 I17 71.44 −23.55 −15.0	0331 J17 35.96 49.44 −20.09
18	0251 A18 34.12 47.84 −30.26	0260 B18 40.03 38.32 −28.82	0269 C18 45.94 28.8 −27.38	0278 D18 51.85 19.28 −25.93	0287 E18 55.96 11.52 −25.73	0296 F18 60.07 3.76 −25.53	0305 G18 64.19 −3.99 −25.33	0314 H18 68.3 −11.75 −25.13	0323 I18 72.41 −19.51 −24.92	0332 J18 36.92 53.31 −25.57
19	0486 A19 40.46 49.1 38.93	0495 B19 45.76 39.54 44.43	0504 C19 51.06 29.99 49.95	0513 D19 56.36 20.43 55.46	0522 E19 61.67 10.87 60.97	0531 F19 66.97 1.31 66.48	0540 G19 72.28 −8.24 72.0	0549 H19 76.39 −16.17 76.64	0558 I19 80.49 −24.1 81.29	0567 J19 44.2 57.2 45.49
20	0487 A20 40.48 50.33 31.57	0496 B20 46.39 40.82 33.02	0505 C20 51.69 31.26 38.53	0514 D20 56.99 21.7 44.04	0523 E20 62.3 12.14 49.55	0532 F20 67.6 2.58 55.07	0541 G20 72.9 −6.97 60.58	0550 H20 77.02 −14.9 65.23	0559 I20 81.12 −22.83 69.87	0568 J20 44.22 58.43 38.14
21	0488 A21 40.5 51.57 24.21	0497 B21 46.41 42.05 25.66	0506 C21 52.32 32.53 27.1	0515 D21 57.62 22.97 32.61	0524 E21 62.93 13.41 38.13	0533 F21 68.23 3.85 43.64	0542 G21 73.54 −5.7 49.15	0551 H21 77.65 −13.63 53.8	0560 I21 81.75 −21.56 58.44	0569 J21 44.25 59.67 30.78
22	0489 A22 40.53 52.8 16.85	0498 B22 46.43 43.29 18.3	0507 C22 52.34 33.76 19.74	0516 D22 58.25 24.24 21.19	0525 E22 63.56 14.68 26.7	0534 F22 68.86 5.12 32.21	0543 G22 74.17 −4.43 37.73	0552 H22 78.28 −12.36 42.37	0561 I22 82.38 −20.29 47.02	0570 J22 44.27 60.9 23.42
23	0490 A23 40.55 54.04 9.5	0499 B23 46.46 44.52 10.94	0508 C23 52.37 35.0 12.38	0517 D23 58.28 25.48 13.83	0526 E23 64.19 15.95 15.27	0535 F23 69.49 6.39 20.79	0544 G23 74.8 −3.15 26.3	0553 H23 78.91 −11.09 30.95	0562 I23 83.01 −19.02 35.59	0571 J23 44.29 62.14 16.06
24	0491 A24 40.58 55.28 2.14	0500 B24 46.48 45.76 3.58	0509 C24 52.39 36.24 5.03	0518 D24 58.3 26.71 6.47	0527 E24 64.21 17.19 7.92	0536 F24 70.12 7.67 9.36	0545 G24 75.43 −1.88 14.87	0554 H24 79.54 −9.82 19.52	0563 I24 83.64 −17.74 24.17	0572 J24 44.32 63.38 8.7
25	0492 A25 40.6 56.51 −5.21	0501 B25 46.51 47.0 −3.77	0510 C25 52.42 37.47 −2.32	0519 D25 58.33 27.95 −0.88	0528 E25 64.24 18.43 0.56	0537 F25 70.15 8.9 2.0	0546 G25 76.06 −0.61 3.44	0555 H25 80.17 −8.55 8.09	0564 I25 84.27 −16.47 12.74	0573 J25 44.34 64.61 1.35
26	0493 A26 41.56 60.38 −10.7	0502 B26 47.47 50.86 −9.25	0511 C26 53.38 41.34 −7.81	0520 D26 59.29 31.82 −6.36	0529 E26 65.2 22.29 −4.92	0538 F26 71.11 12.77 −3.47	0547 G26 77.02 3.25 −2.03	0556 H26 81.13 −4.5 −1.83	0565 I26 85.24 −12.43 2.81	0574 J26 44.36 65.85 −6.0
27	0494 A27 42.53 64.25 −16.18	0503 B27 48.43 54.73 −14.74	0512 C27 54.34 45.21 −13.29	0521 D27 60.25 35.68 −11.85	0530 E27 66.16 26.16 −10.4	0539 F27 72.07 16.64 −8.96	0548 G27 77.98 7.11 −7.51	0557 H27 82.09 −0.64 −7.31	0566 I27 86.2 −8.39 −7.11	0575 J27 45.33 69.72 −11.48

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 27.05 −0.95 11.6	0099 L01 31.16 −8.89 16.24	0108 M01 35.27 −16.82 20.89	0117 N01 39.38 −24.75 25.54	0126 O01 43.5 −32.69 30.19	0135 P01 47.61 −40.62 34.83	0144 Q01 51.72 −48.55 39.48	0153 R01 55.83 −56.48 44.12	0162 S01 25.49 16.69 12.66	0171 T01 30.79 7.14 18.16
02	0091 K02 27.68 0.31 0.17	0100 L02 31.79 −7.62 4.83	0109 M02 35.9 −15.55 9.47	0118 N02 40.01 −23.48 14.12	0127 O02 44.12 −31.42 18.77	0136 P02 48.24 −39.35 23.42	0145 Q02 52.35 −47.28 28.06	0154 R02 56.46 −55.21 32.71	0163 S02 25.52 17.93 5.3	0172 T02 31.42 8.41 6.75
03	0092 K03 28.64 4.18 −5.3	0101 L03 32.76 −3.57 −5.1	0110 M03 36.87 −11.51 −0.45	0119 N03 40.98 −19.44 4.19	0128 O03 45.09 −27.37 8.84	0137 P03 49.2 −35.31 13.48	0146 Q03 53.31 −43.24 18.13	0155 R03 57.42 −51.17 22.78	0164 S03 25.54 19.16 −2.05	0173 T03 31.45 9.65 −0.6
04	0093 K04 29.61 8.05 −10.78	0102 L04 33.72 0.29 −10.58	0111 M04 37.83 −7.46 −10.38	0120 N04 41.94 −15.4 −5.73	0129 O04 46.06 −23.33 −1.09	0138 P04 50.17 −31.26 3.55	0147 Q04 54.28 −39.2 8.2	0156 R04 58.39 −47.13 12.84	0165 S04 26.5 23.03 −7.53	0174 T04 32.41 13.52 −6.09
05	0094 K05 30.57 11.92 −16.27	0103 L05 34.68 4.16 −16.07	0112 M05 38.8 −3.59 −15.87	0121 N05 42.91 −11.36 −15.67	0130 O05 47.02 −19.29 −11.02	0139 P05 51.13 −27.22 −6.37	0148 Q05 55.24 −35.16 −1.72	0157 R05 59.35 −43.08 2.91	0166 S05 27.47 26.9 −13.02	0175 T05 33.37 17.38 −11.58
06	0095 K06 31.54 15.78 −21.76	0104 L06 35.65 8.02 −21.56	0113 M06 39.76 0.26 −21.35	0122 N06 43.87 −7.49 −21.15	0131 O06 47.99 −15.25 −20.95	0140 P06 52.1 −23.18 −16.3	0149 Q06 56.21 −31.11 −11.66	0158 R06 60.32 −39.04 −7.01	0167 S06 28.43 30.77 −18.51	0176 T06 34.34 21.25 −17.06
07	0096 K07 32.5 19.65 −27.24	0105 L07 36.61 11.89 −27.04	0114 M07 40.72 4.13 −26.84	0123 N07 44.84 −3.62 −26.64	0132 O07 48.95 −11.38 −26.44	0141 P07 53.06 −19.14 −26.24	0150 Q07 57.17 −27.07 −21.59	0159 R07 61.28 −35.0 −16.94	0168 S07 29.39 34.64 −23.99	0177 T07 35.3 25.12 −22.55
08	0097 K08 33.46 23.52 −32.73	0106 L08 37.58 15.76 −32.53	0115 M08 41.69 8.0 −32.33	0124 N08 45.8 0.24 −32.13	0133 O08 49.91 −7.51 −31.92	0142 P08 54.03 −15.27 −31.72	0151 Q08 58.14 −23.03 −31.52	0160 R08 62.25 −30.96 −26.88	0169 S08 30.36 38.51 −29.48	0178 T08 36.26 28.99 −28.03
09	0098 K09 34.43 27.39 −38.21	0107 L09 38.54 19.63 −38.01	0116 M09 42.65 11.87 −37.81	0125 N09 46.76 4.11 −37.61	0134 O09 50.88 −3.64 −37.41	0143 P09 54.99 −11.4 −37.2	0152 Q09 59.1 −19.16 −37.0	0161 R09 63.21 −26.92 −36.8	0170 S09 31.32 42.37 −34.96	0179 T09 37.23 32.86 −33.52
10	0333 K10 38.27 23.34 31.3	0342 L10 43.58 13.78 36.81	0351 M10 48.88 4.22 42.32	0360 N10 54.19 −5.32 47.84	0369 O10 58.3 −13.26 52.48	0378 P10 62.41 −21.19 57.13	0387 Q10 66.52 −29.13 61.78	0396 R10 70.63 −37.05 66.42	0405 S10 36.72 40.99 32.36	0414 T10 42.02 31.44 37.87
11	0334 K11 38.9 24.61 19.88	0343 L11 44.21 15.05 25.39	0352 M11 49.51 5.5 30.91	0361 N11 54.82 −4.05 36.42	0370 O11 58.93 −11.99 41.07	0379 P11 63.04 −19.92 45.71	0388 Q11 67.15 −27.86 50.36	0397 R11 71.26 −35.78 55.01	0406 S11 36.74 42.23 25.0	0415 T11 42.65 32.71 26.45
12	0335 K12 38.93 25.85 12.52	0344 L12 44.84 16.33 13.97	0353 M12 50.14 6.77 19.48	0362 N12 55.45 −2.78 24.99	0371 O12 59.56 −10.72 29.64	0380 P12 63.67 −18.65 34.29	0389 Q12 67.78 −26.58 38.93	0398 R12 71.89 −34.51 43.58	0407 S12 36.76 43.47 17.65	0416 T12 42.67 33.95 19.09
13	0336 K13 38.95 27.08 5.16	0345 L13 44.86 17.56 6.61	0354 M13 50.77 8.04 8.05	0363 N13 56.08 −1.51 13.57	0372 O13 60.19 −9.45 18.21	0381 P13 64.3 −17.38 22.86	0390 Q13 68.41 −25.31 27.51	0399 R13 72.52 −33.24 32.15	0408 S13 36.79 44.7 10.29	0417 T13 42.69 35.19 11.73
14	0337 K14 38.98 28.32 −2.19	0346 L14 44.89 18.8 −0.74	0355 M14 50.8 9.27 0.69	0364 N14 56.71 −0.24 2.13	0373 O14 60.82 −8.17 6.79	0382 P14 64.93 −16.11 11.43	0391 Q14 69.04 −24.04 16.08	0400 R14 73.15 −31.97 20.73	0409 S14 36.81 45.94 2.93	0418 T14 42.72 36.42 4.37
15	0338 K15 39.94 32.19 −7.67	0347 L15 45.85 22.67 −6.23	0356 M15 51.76 13.14 −4.78	0365 N15 57.67 3.62 −3.34	0374 O15 61.78 −4.13 −3.14	0383 P15 65.89 −12.07 1.5	0392 Q15 70.0 −20.0 6.15	0401 R15 74.11 −27.93 10.79	0410 S15 36.83 47.17 −4.42	0419 T15 42.74 37.66 −2.98
16	0339 K16 40.9 36.06 −13.16	0348 L16 46.81 26.54 −11.71	0357 M16 52.72 17.01 −10.27	0366 N16 58.63 7.49 −8.82	0375 O16 62.75 −0.26 −8.62	0384 P16 66.86 −8.02 −8.42	0393 Q16 70.97 −15.96 −3.77	0402 R16 75.08 −23.88 0.86	0411 S16 37.8 51.04 −9.91	0420 T16 43.7 41.53 −8.46
17	0340 K17 41.87 39.93 −18.64	0349 L17 47.78 30.4 −17.2	0358 M17 53.69 20.88 −15.75	0367 N17 59.6 11.36 −14.31	0376 O17 63.71 3.6 −14.11	0385 P17 67.82 −4.15 −13.91	0394 Q17 71.93 −11.91 −13.71	0403 R17 76.04 −19.84 −9.06	0412 S17 38.76 54.91 −15.39	0421 T17 44.67 45.4 −13.95
18	0341 K18 42.83 43.79 −24.13	0350 L18 48.74 34.27 −22.68	0359 M18 54.65 24.75 −21.24	0368 N18 60.56 15.22 −19.79	0377 O18 64.67 7.46 −19.59	0386 P18 68.78 −0.29 −19.39	0395 Q18 72.9 −8.05 −19.19	0404 R18 77.01 −15.8 −18.99	0413 S18 39.73 58.78 −20.87	0422 T18 45.63 49.26 −19.43
19	0576 K19 49.5 47.65 51.0	0585 L19 54.8 38.09 56.51	0594 M19 60.11 28.53 62.03	0603 N19 65.41 18.97 67.54	0612 O19 70.71 9.41 73.05	0621 P19 76.02 −0.14 78.56	0630 Q19 81.32 −9.7 84.08	0639 R19 85.43 −17.62 88.72	0648 S19 47.94 65.29 52.06	0657 T19 53.24 55.74 57.56
20	0577 K20 50.13 48.92 39.58	0586 L20 55.43 39.36 45.1	0595 M20 60.74 29.8 50.61	0604 N20 66.04 20.24 56.12	0613 O20 71.34 10.68 61.63	0622 P20 76.65 1.12 67.15	0631 Q20 81.95 −8.43 72.66	0640 R20 86.06 −16.35 77.3	0649 S20 47.96 66.53 44.7	0658 T20 53.87 57.01 46.15
21	0578 K21 50.15 50.15 32.23	0587 L21 56.06 40.63 33.67	0596 M21 61.37 31.07 39.18	0605 N21 66.67 21.51 44.69	0614 O21 71.97 11.95 50.21	0623 P21 77.28 2.39 55.72	0632 Q21 82.58 −7.15 61.23	0641 R21 86.69 −15.08 65.88	0650 S21 47.98 67.76 37.34	0659 T21 53.89 58.25 38.79
22	0579 K22 50.18 51.39 24.87	0588 L22 56.08 41.87 26.31	0597 M22 62.0 32.34 27.76	0606 N22 67.3 22.78 33.27	0615 O22 72.6 13.22 38.78	0624 P22 77.91 3.67 44.29	0633 Q22 83.21 −5.88 49.81	0642 R22 87.32 −13.81 54.45	0651 S22 48.01 69.0 29.98	0660 T22 53.91 59.48 31.43
23	0580 K23 50.2 52.62 17.51	0589 L23 56.11 43.1 18.95	0598 M23 62.02 33.58 20.4	0607 N23 67.93 24.05 21.84	0616 O23 73.23 14.5 27.35	0625 P23 78.54 4.94 32.87	0634 Q23 83.84 −4.61 38.38	0643 R23 87.95 −12.54 43.02	0652 S23 48.03 70.24 22.63	0661 T23 53.94 60.72 24.07
24	0581 K24 50.22 53.86 10.15	0590 L24 56.13 44.34 11.59	0599 M24 62.04 34.81 13.04	0608 N24 67.95 25.29 14.48	0617 O24 73.86 15.77 15.93	0626 P24 79.17 6.21 21.44	0635 Q24 84.47 −3.34 26.95	0644 R24 88.58 −11.27 31.6	0653 S24 48.06 71.47 15.27	0662 T24 53.96 61.96 16.71
25	0582 K25 50.25 55.1 2.79	0591 L25 56.16 45.57 4.23	0600 M25 62.07 36.05 5.68	0609 N25 67.98 26.53 7.12	0618 O25 73.89 17.0 8.57	0627 P25 79.8 7.48 10.01	0636 Q25 85.1 −2.07 15.53	0645 R25 89.21 −10.0 20.17	0654 S25 48.08 72.71 7.91	0663 T25 53.98 63.19 9.35
26	0583 K26 50.27 56.33 −4.56	0592 L26 56.18 46.81 −3.11	0601 M26 62.09 37.29 −1.67	0610 N26 68.0 27.76 −0.22	0619 O26 73.91 18.24 1.21	0628 P26 79.82 8.72 2.66	0637 Q26 85.73 −0.8 4.09	0646 R26 89.84 −8.73 8.75	0655 S26 48.1 73.94 0.55	0664 T26 54.01 64.43 1.99
27	0584 K27 51.23 60.2 −10.04	0593 L27 57.14 50.68 −8.6	0602 M27 63.05 41.15 −7.15	0611 N27 68.96 31.63 −5.71	0620 O27 74.87 22.1 −4.26	0629 P27 80.78 12.58 −2.82	0638 Q27 86.69 3.06 −1.37	0647 R27 90.8 −4.69 −1.17	0656 S27 48.13 75.18 −6.79	0665 T27 54.03 65.66 −5.35

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 36.1 −2.41 23.68	0189 V01 40.21 −10.34 28.32	0198 W01 44.32 −18.28 32.97	0207 X01 48.43 −26.21 37.62	0216 Y01 52.54 −34.14 42.27	0225 Z01 56.65 −42.08 46.91	0234 a01 60.76 −50.01 51.56	0729 b01 95.4 −0.98 4.75	0738 c01 89.47 7.29 10.66	0747 d01 83.53 15.57 16.58
02	0181 U02 36.73 −1.14 12.26	0190 V02 40.84 −9.07 16.91	0199 W02 44.95 −17.01 21.55	0208 X02 49.06 −24.94 26.2	0217 Y02 53.17 −32.87 30.85	0226 Z02 57.28 −40.81 35.5	0235 a02 61.39 −48.73 40.14	0730 b02 90.8 −4.69 −1.17	0739 c02 85.73 −0.8 4.09	0748 d02 79.8 7.48 10.01
03	0182 U03 37.36 0.12 0.82	0191 V03 41.47 −7.8 5.48	0200 W03 45.58 −15.74 10.13	0209 X03 49.69 −23.67 14.77	0218 Y03 53.8 −31.6 19.42	0227 Z03 57.91 −39.54 24.07	0236 a03 62.02 −47.46 28.71	0731 b03 86.2 −8.39 −7.11	0740 c03 81.13 −4.5 −1.83	0749 d03 76.06 −0.61 3.44
04	0183 U04 38.32 3.99 −4.64	0192 V04 42.43 −3.76 −4.44	0201 W04 46.54 −11.69 0.19	0210 X04 50.65 −19.63 4.84	0219 Y04 54.77 −27.56 9.49	0228 Z04 58.88 −35.49 14.14	0237 a04 62.98 −43.42 18.78	0732 b04 81.6 −12.1 −13.05	0741 c04 76.53 −8.21 −7.77	0750 d04 71.46 −4.32 −2.48
05	0184 U05 39.28 7.86 −10.13	0193 V05 43.4 0.1 −9.93	0202 W05 47.51 −7.65 −9.73	0211 X05 51.62 −15.58 −5.08	0220 Y05 55.73 −23.52 −0.43	0229 Z05 59.84 −31.45 4.2	0238 a05 63.95 −39.38 8.85	0733 b05 77.01 −15.8 −18.99	0742 c05 71.93 −11.91 −13.71	0751 d05 66.86 −8.02 −8.42
06	0185 U06 40.25 11.73 −15.62	0194 V06 44.36 3.97 −15.42	0203 W06 48.47 −3.78 −15.21	0212 X06 52.58 −11.54 −15.01	0221 Y06 56.7 −19.48 −10.37	0230 Z06 60.81 −27.41 −5.72	0239 a06 64.91 −35.34 −1.07	0734 b06 72.41 −19.51 −24.92	0743 c06 67.34 −15.62 −19.64	0752 d06 62.26 −11.73 −14.36
07	0186 U07 41.21 15.6 −21.1	0195 V07 45.32 7.84 −20.9	0204 W07 49.44 0.08 −20.7	0213 X07 53.55 −7.67 −20.5	0222 Y07 57.66 −15.43 −20.3	0231 Z07 61.77 −23.37 −15.65	0240 a07 65.88 −31.29 −11.01	0735 b07 67.81 −23.21 −30.86	0744 c07 62.74 −19.32 −25.58	0753 d07 57.66 −15.43 −20.3
08	0187 U08 42.17 19.47 −26.59	0196 V08 46.29 11.71 −26.39	0205 W08 50.4 3.95 −26.19	0214 X08 54.51 −3.8 −25.99	0223 Y08 58.62 −11.56 −25.78	0232 Z08 62.74 −19.32 −25.58	0241 a08 66.84 −27.25 −20.94	0736 b08 63.21 −26.92 −36.8	0745 c08 58.14 −23.03 −31.52	0754 d08 53.06 −19.14 −26.24
09	0188 U09 43.14 23.33 −32.07	0197 V09 47.25 15.57 −31.87	0206 W09 51.36 7.81 −31.67	0215 X09 55.47 0.05 −31.47	0224 Y09 59.59 −7.7 −31.27	0233 Z09 63.7 −15.46 −31.06	0242 a09 67.81 −23.21 −30.86	0737 b09 58.61 −30.62 −42.74	0746 c09 53.54 −26.73 −37.46	0755 d09 48.47 −22.84 −32.17
10	0423 U10 47.32 21.88 43.38	0432 V10 52.62 12.33 48.89	0441 W10 57.93 2.77 54.4	0450 X10 63.23 −6.78 59.92	0459 Y10 67.34 −14.72 64.56	0468 Z10 71.45 −22.65 69.21	0477 a10 75.56 −30.58 73.85	0810 b10 95.4 −0.98 4.75	0819 c10 94.77 −2.26 16.17	0828 d10 94.14 −3.53 27.6
11	0424 U11 47.95 23.16 31.96	0433 V11 53.25 13.6 37.47	0442 W11 58.56 4.04 42.99	0451 X11 63.86 −5.51 48.5	0460 Y11 67.97 −13.44 53.15	0469 Z11 72.08 −21.38 57.79	0478 a11 76.19 −29.31 62.44	0811 b11 86.69 3.06 −1.37	0820 c11 85.73 −0.8 4.09	0829 d11 85.1 −2.07 15.53
12	0425 U12 48.58 24.43 20.53	0434 V12 53.88 14.87 26.05	0443 W12 59.19 5.31 31.56	0452 X12 64.49 −4.24 37.07	0461 Y12 68.6 −12.17 41.72	0470 Z12 72.71 −20.11 46.37	0479 a12 76.82 −28.03 51.01	0812 b12 77.98 7.11 −7.51	0821 c12 77.02 3.25 −2.03	0830 d12 76.06 −0.61 3.44
13	0426 U13 48.6 25.66 13.18	0435 V13 54.51 16.14 14.62	0444 W13 59.82 6.58 20.13	0453 X13 65.12 −2.97 25.65	0462 Y13 69.23 −10.9 30.29	0471 Z13 73.34 −18.84 34.94	0480 a13 77.45 −26.76 39.59	0813 b13 69.27 11.17 −13.65	0822 c13 68.31 7.3 −8.17	0831 d13 67.34 3.43 −2.68
14	0427 U14 48.63 26.9 5.82	0436 V14 54.54 17.37 7.26	0445 W14 60.45 7.85 8.71	0454 X14 65.75 −1.7 14.22	0463 Y14 69.86 −9.63 18.87	0472 Z14 73.97 −17.57 23.51	0481 a14 78.08 −25.49 28.16	0814 b14 60.56 15.22 −19.79	0823 c14 59.6 11.36 −14.31	0832 d14 58.63 7.49 −8.82
15	0428 U15 48.65 28.14 −1.53	0437 V15 54.56 18.61 −0.09	0446 W15 60.47 9.09 1.35	0455 X15 66.38 −0.43 2.79	0464 Y15 70.49 −8.36 7.44	0473 Z15 74.6 −16.29 12.09	0482 a15 78.71 −24.22 16.73	0815 b15 51.85 19.28 −25.93	0824 c15 50.89 15.41 −20.45	0833 d15 49.92 11.54 −14.96
16	0429 U16 49.61 32.0 −7.02	0438 V16 55.52 22.48 −5.57	0447 W16 61.43 12.96 −4.13	0456 X16 67.34 3.43 −2.68	0465 Y16 71.46 −4.32 −2.48	0474 Z16 75.57 −12.25 2.16	0483 a16 79.68 −20.18 6.8	0816 b16 43.14 23.33 −32.07	0825 c16 42.17 19.47 −26.59	0834 d16 41.21 15.6 −21.1
17	0430 U17 50.58 35.87 −12.5	0439 V17 56.49 26.35 −11.06	0448 W17 62.4 16.83 −9.61	0457 X17 68.31 7.3 −8.17	0466 Y17 72.42 −0.45 −7.97	0475 Z17 76.53 −8.21 −7.77	0484 a17 80.64 −16.14 −3.12	0817 b17 34.43 27.39 −38.21	0826 c17 33.46 23.52 −32.73	0835 d17 32.5 19.65 −27.24
18	0431 U18 51.54 39.74 −17.99	0440 V18 57.45 30.21 −16.54	0449 W18 63.36 20.69 −15.1	0458 X18 69.27 11.17 −13.65	0467 Y18 73.38 3.41 −13.45	0476 Z18 77.5 −4.34 −13.25	0485 a18 81.6 −12.1 −13.05	0818 b18 25.72 31.44 −44.35	0827 c18 24.76 27.57 −38.86	0836 d18 23.79 23.7 −33.38
19	0666 U19 58.54 46.18 63.08	0675 V19 63.84 36.62 68.59	0684 W19 69.15 27.06 74.1	0693 X19 74.45 17.51 79.61	0702 Y19 79.76 7.95 85.13	0711 Z19 85.06 −1.6 90.64	0720 a19 90.36 −11.15 96.15	0891 b19 95.4 −0.98 4.75	0900 c19 89.84 −8.73 8.75	0909 d19 84.27 −16.47 12.74
20	0667 U20 59.17 47.45 51.66	0676 V20 64.47 37.89 57.17	0685 W20 69.78 28.33 62.68	0694 X20 75.08 18.78 68.2	0703 Y20 80.38 9.22 73.71	0712 Z20 85.69 −0.33 79.22	0721 a20 90.99 −9.88 84.73	0892 b20 89.49 8.52 3.31	0901 c20 85.73 −0.8 4.09	0910 d20 80.17 −8.55 8.09
21	0668 U21 59.8 48.72 40.23	0677 V21 65.1 39.16 45.74	0686 W21 70.41 29.61 51.26	0695 X21 75.71 20.05 56.77	0704 Y21 81.01 10.49 62.28	0713 Z21 86.32 0.93 67.79	0722 a21 91.62 −8.61 73.3	0893 b21 83.58 18.05 1.87	0902 c21 79.82 8.72 2.66	0911 d21 76.06 −0.61 3.44
22	0669 U22 59.82 49.96 32.87	0678 V22 65.73 40.44 34.32	0687 W22 71.04 30.88 39.83	0696 X22 76.34 21.32 45.34	0705 Y22 81.64 11.76 50.86	0714 Z22 86.95 2.2 56.37	0723 a22 92.25 −7.34 61.88	0894 b22 77.67 27.57 0.42	0903 c22 73.91 18.24 1.21	0912 d22 70.15 8.9 2.0
23	0670 U23 59.85 51.2 25.51	0679 V23 65.76 41.67 26.96	0688 W23 71.67 32.15 28.4	0697 X23 76.97 22.59 33.92	0706 Y23 82.27 13.03 39.43	0715 Z23 87.58 3.47 44.94	0724 a23 92.88 −6.07 50.45	0895 b23 71.76 37.09 −1.01	0904 c23 68.0 27.76 −0.22	0913 d23 64.24 18.43 0.56
24	0671 U24 59.87 52.43 18.16	0680 V24 65.78 42.91 19.6	0689 W24 71.69 33.38 21.05	0698 X24 77.6 23.86 22.49	0707 Y24 82.9 14.3 28.0	0716 Z24 88.21 4.74 33.52	0725 a24 93.51 −4.8 39.02	0896 b24 65.85 46.62 −2.46	0905 c24 62.09 37.29 −1.67	0914 d24 58.33 27.95 −0.88
25	0672 U25 59.89 53.67 10.8	0681 V25 65.8 44.14 12.24	0690 W25 71.71 34.62 13.69	0699 X25 77.62 25.1 15.13	0708 Y25 83.53 15.57 16.58	0717 Z25 88.84 6.01 22.09	0726 a25 94.14 −3.53 27.6	0897 b25 59.94 56.14 −3.9	0906 c25 56.18 46.81 −3.11	0915 d25 52.42 37.47 −2.32
26	0673 U26 59.92 54.9 3.44	0682 V26 65.83 45.38 4.88	0691 W26 71.74 35.86 6.33	0700 X26 77.65 26.33 7.77	0709 Y26 83.56 16.81 9.22	0718 Z26 89.47 7.29 10.66	0727 a26 94.77 −2.26 16.17	0898 b26 54.03 65.66 −5.35	0907 c26 50.27 56.33 −4.56	0916 d26 46.51 47.0 −3.77
27	0674 U27 59.94 56.14 −3.9	0683 V27 65.85 46.62 −2.46	0692 W27 71.76 37.09 −1.01	0701 X27 77.67 27.57 0.42	0710 Y27 83.58 18.05 1.87	0719 Z27 89.49 8.52 3.31	0728 a27 95.4 −0.98 4.75	0899 b27 48.13 75.18 −6.79	0908 c27 44.36 65.85 −6.0	0917 d27 40.6 56.51 −5.21

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 77.6 23.86 22.49	0765 f01 71.67 32.15 28.4	0774 g01 65.73 40.44 34.32	0783 h01 59.8 48.72 40.23	0792 i01 53.87 57.01 46.15	0801 j01 47.94 65.29 52.06	0972 k01 18.02 0.49 −0.47	0981 l01 18.02 0.49 −0.47	0990 m01 18.02 0.49 −0.47	0999 n01 18.02 0.49 −0.47
02	0757 e02 73.86 15.77 15.93	0766 f02 67.93 24.05 21.84	0775 g02 62.0 32.34 27.76	0784 h02 56.06 40.63 33.67	0793 i02 50.13 48.92 39.58	0802 j02 44.2 57.2 45.49	0973 k02 27.68 0.31 0.17	0982 l02 27.68 0.31 0.17	0991 m02 27.68 0.31 0.17	1000 n02 27.68 0.31 0.17
03	0758 e03 70.12 7.67 9.36	0767 f03 64.19 15.95 15.27	0776 g03 58.25 24.24 21.19	0785 h03 52.32 32.53 27.1	0794 i03 46.39 40.82 33.02	0803 j03 40.46 49.1 38.93	0974 k03 37.36 0.12 0.82	0983 l03 37.36 0.12 0.82	0992 m03 37.36 0.12 0.82	1001 n03 37.36 0.12 0.82
04	0759 e04 66.38 −0.43 2.79	0768 f04 60.45 7.85 8.71	0777 g04 54.51 16.14 14.62	0786 h04 48.58 24.43 20.53	0795 i04 42.65 32.71 26.45	0804 j04 36.72 40.99 32.36	0975 k04 47.03 −0.05 1.48	0984 l04 47.03 −0.05 1.48	0993 m04 47.03 −0.05 1.48	1002 n04 47.03 −0.05 1.48
05	0760 e05 61.78 −4.13 −3.14	0769 f05 56.71 −0.24 2.13	0778 g05 50.77 8.04 8.05	0787 h05 44.84 16.33 13.97	0796 i05 38.9 24.61 19.88	0805 j05 32.97 32.89 25.79	0976 k05 56.71 −0.24 2.13	0985 l05 56.71 −0.24 2.13	0994 m05 56.71 −0.24 2.13	1003 n05 56.71 −0.24 2.13
06	0761 e06 57.18 −7.84 −9.07	0770 f06 52.11 −3.94 −3.79	0779 g06 47.03 −0.05 1.48	0788 h06 41.1 8.22 7.4	0797 i06 35.16 16.51 13.31	0806 j06 29.23 24.79 19.22	0977 k06 66.38 −0.43 2.79	0986 l06 66.38 −0.43 2.79	0995 m06 66.38 −0.43 2.79	1004 n06 66.38 −0.43 2.79
07	0762 e07 52.58 −11.54 −15.01	0771 f07 47.51 −7.65 −9.73	0780 g07 42.43 −3.76 −4.44	0789 h07 37.36 0.12 0.82	0798 i07 31.42 8.41 6.75	0807 j07 25.49 16.69 12.66	0978 k07 76.06 −0.61 3.44	0987 l07 76.06 −0.61 3.44	0996 m07 76.06 −0.61 3.44	1005 n07 76.06 −0.61 3.44
08	0763 e08 47.99 −15.25 −20.95	0772 f08 42.91 −11.36 −15.67	0781 g08 37.83 −7.46 −10.38	0790 h08 32.76 −3.57 −5.1	0799 i08 27.68 0.31 0.17	0808 j08 21.75 8.59 6.09	0979 k08 85.73 −0.8 4.09	0988 l08 85.73 −0.8 4.09	0997 m08 85.73 −0.8 4.09	1006 n08 85.73 −0.8 4.09
09	0764 e09 43.39 −18.95 −26.89	0773 f09 38.31 −15.06 −21.6	0782 g09 33.24 −11.17 −16.32	0791 h09 28.16 −7.27 −11.03	0800 i09 23.08 −3.38 −5.75	0809 j09 18.02 0.49 −0.47	0980 k09 95.4 −0.98 4.75	0989 l09 95.4 −0.98 4.75	0998 m09 95.4 −0.98 4.75	1007 n09 95.4 −0.98 4.75
10	0837 e10 93.51 −4.8 39.02	0846 f10 92.88 −6.07 50.45	0855 g10 92.25 −7.34 61.88	0864 h10 91.62 −8.61 73.3	0873 i10 90.99 −9.88 84.73	0882 j10 90.36 −11.15 96.15	1008 k10 18.02 0.49 −0.47	1024 l10 18.02 0.49 −0.47	1040 m10 18.02 0.49 −0.47	1056 n10 18.02 0.49 −0.47
11	0838 e11 84.47 −3.34 26.95	0847 f11 83.84 −4.61 38.38	0856 g11 83.21 −5.88 49.81	0865 h11 82.58 −7.15 61.23	0874 i11 81.95 −8.43 72.66	0883 j11 81.32 −9.7 84.08	1009 k11 23.17 0.4 −0.12	1025 l11 23.17 0.4 −0.12	1041 m11 23.17 0.4 −0.12	1057 n11 23.17 0.4 −0.12
12	0839 e12 75.43 −1.88 14.87	0848 f12 74.8 −3.15 26.3	0857 g12 74.17 −4.43 37.73	0866 h12 73.54 −5.7 49.15	0875 i12 72.9 −6.97 60.58	0884 j12 72.28 −8.24 72.0	1010 k12 28.33 0.3 0.21	1026 l12 28.33 0.3 0.21	1042 m12 28.33 0.3 0.21	1058 n12 28.33 0.3 0.21
13	0840 e13 66.38 −0.43 2.79	0849 f13 65.75 −1.7 14.22	0858 g13 65.12 −2.97 25.65	0867 h13 64.49 −4.24 37.07	0876 i13 63.86 −5.51 48.5	0885 j13 63.23 −6.78 59.92	1011 k13 33.49 0.2 0.56	1027 l13 33.49 0.2 0.56	1043 m13 33.49 0.2 0.56	1059 n13 33.49 0.2 0.56
14	0841 e14 57.67 3.62 −3.34	0850 f14 56.71 −0.24 2.13	0859 g14 56.08 −1.51 13.57	0868 h14 55.45 −2.78 24.99	0877 i14 54.82 −4.05 36.42	0886 j14 54.19 −5.32 47.84	1012 k14 38.65 0.1 0.91	1028 l14 38.65 0.1 0.91	1044 m14 38.65 0.1 0.91	1060 n14 38.65 0.1 0.91
15	0842 e15 48.96 7.67 −9.48	0851 f15 47.99 3.81 −3.99	0860 g15 47.03 −0.05 1.48	0869 h15 46.4 −1.32 12.91	0878 i15 45.77 −2.6 24.34	0887 j15 45.14 −3.87 35.76	1013 k15 43.81 0.0 1.26	1029 l15 43.81 0.0 1.26	1045 m15 43.81 0.0 1.26	1061 n15 43.81 0.0 1.26
16	0843 e16 40.25 11.73 −15.62	0852 f16 39.28 7.86 −10.13	0861 g16 38.32 3.99 −4.64	0870 h16 37.36 0.12 0.82	0879 i16 36.73 −1.14 12.26	0888 j16 36.1 −2.41 23.68	1014 k16 48.97 −0.09 1.61	1030 l16 48.97 −0.09 1.61	1046 m16 48.97 −0.09 1.61	1062 n16 48.97 −0.09 1.61
17	0844 e17 31.54 15.78 −21.76	0853 f17 30.57 11.92 −16.27	0862 g17 29.61 8.05 −10.78	0871 h17 28.64 4.18 −5.3	0880 i17 27.68 0.31 0.17	0889 j17 27.05 −0.95 11.6	1015 k17 54.13 −0.19 1.96	1031 l17 54.13 −0.19 1.96	1047 m17 54.13 −0.19 1.96	1063 n17 54.13 −0.19 1.96
18	0845 e18 22.83 19.84 −27.89	0854 f18 21.87 15.97 −22.41	0863 g18 20.9 12.1 −16.92	0872 h18 19.94 8.23 −11.43	0881 i18 18.98 4.36 −5.95	0890 j18 18.02 0.49 −0.47	1016 k18 59.29 −0.29 2.31	1032 l18 59.29 −0.29 2.31	1048 m18 59.29 −0.29 2.31	1064 n18 59.29 −0.29 2.31
19	0918 e19 78.71 −24.22 16.73	0927 f19 73.15 −31.97 20.73	0936 g19 67.58 −39.72 24.72	0945 h19 62.02 −47.46 28.71	0954 i19 56.46 −55.21 32.71	0963 j19 50.9 −62.95 36.7	1017 k19 64.45 −0.39 2.65	1033 l19 64.45 −0.39 2.65	1049 m19 64.45 −0.39 2.65	1065 n19 64.45 −0.39 2.65
20	0919 e20 74.6 −16.29 12.09	0928 f20 69.04 −24.04 16.08	0937 g20 63.48 −31.79 20.08	0946 h20 57.91 −39.54 24.07	0955 i20 52.35 −47.28 28.06	0964 j20 46.79 −55.03 32.05	1018 k20 69.61 −0.49 3.0	1034 l20 69.61 −0.49 3.0	1050 m20 69.61 −0.49 3.0	1066 n20 69.61 −0.49 3.0
21	0920 e21 70.49 −8.36 7.44	0929 f21 64.93 −16.11 11.43	0938 g21 59.36 −23.86 15.43	0947 h21 53.8 −31.6 19.42	0956 i21 48.24 −39.35 23.42	0965 j21 42.68 −47.09 27.41	1019 k21 74.77 −0.59 3.35	1035 l21 74.77 −0.59 3.35	1051 m21 74.77 −0.59 3.35	1067 n21 74.77 −0.59 3.35
22	0921 e22 66.38 −0.43 2.79	0930 f22 60.82 −8.17 6.79	0939 g22 55.25 −15.92 10.78	0948 h22 49.69 −23.67 14.77	0957 i22 44.12 −31.42 18.77	0966 j22 38.57 −39.16 22.76	1020 k22 79.93 −0.69 3.7	1036 l22 79.93 −0.69 3.7	1052 m22 79.93 −0.69 3.7	1068 n22 79.93 −0.69 3.7
23	0922 e23 60.47 9.09 1.35	0931 f23 56.71 −0.24 2.13	0940 g23 51.14 −7.99 6.13	0949 h23 45.58 −15.74 10.13	0958 i23 40.01 −23.48 14.12	0967 j23 34.45 −31.22 18.11	1021 k23 85.09 −0.79 4.05	1037 l23 85.09 −0.79 4.05	1053 m23 85.09 −0.79 4.05	1069 n23 85.09 −0.79 4.05
24	0923 e24 54.56 18.61 −0.09	0932 f24 50.8 9.27 0.69	0941 g24 47.03 −0.05 1.48	0950 h24 41.47 −7.8 5.48	0959 i24 35.9 −15.55 9.47	0968 j24 30.34 −23.29 13.46	1022 k24 90.25 −0.89 4.4	1038 l24 90.25 −0.89 4.4	1054 m24 90.25 −0.89 4.4	1070 n24 90.25 −0.89 4.4
25	0924 e25 48.65 28.14 −1.53	0933 f25 44.89 18.8 −0.74	0942 g25 41.12 9.46 0.04	0951 h25 37.36 0.12 0.82	0960 i25 31.79 −7.62 4.83	0969 j25 26.23 −15.36 8.82	1023 k25 95.4 −0.98 4.75	1039 l25 95.4 −0.98 4.75	1055 m25 95.4 −0.98 4.75	1071 n25 95.4 −0.98 4.75
26	0925 e26 42.74 37.66 −2.98	0934 f26 38.98 28.32 −2.19	0943 g26 35.21 18.98 −1.39	0952 h26 31.45 9.65 −0.6	0961 i26 27.68 0.31 0.17	0970 j26 22.12 −7.42 4.17	1072 k26 18.02 0.49 −0.47	1074 l26 47.94 65.29 52.06	1076 m26 90.36 −11.15 96.15	1078 n26 50.9 −62.95 36.7
27	0926 e27 36.83 47.17 −4.42	0935 f27 33.07 37.84 −3.63	0944 g27 29.3 28.5 −2.84	0953 h27 25.54 19.16 −2.05	0962 i27 21.77 9.82 −1.26	0971 j27 18.02 0.49 −0.47	1073 k27 95.4 −0.98 4.75	1075 l27 58.61 −30.62 −42.74	1077 m27 25.72 31.44 −44.35	1079 n27 48.13 75.18 −6.79

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application for evaluation and measurement of printer or monitor systems

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 8/4, TSL18

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

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 18.02 0.49 -0.47	0009 B01 22.12 -7.42 4.17	0018 C01 26.23 -15.36 8.82	0027 D01 30.34 -23.29 13.46	0036 E01 34.45 -31.22 18.11	0045 F01 38.57 -39.16 22.76	0054 G01 42.68 -47.09 27.41	0063 H01 46.79 -55.03 32.05	0072 I01 50.9 -62.95 36.7	0081 J01 21.75 8.59 6.09
02	0001 A02 18.98 4.36 -5.95	0010 B02 23.08 -3.38 -5.75	0019 C02 27.2 -11.32 -1.1	0028 D02 31.31 -19.25 3.54	0037 E02 35.42 -27.18 8.19	0046 F02 39.53 -35.12 12.83	0055 G02 43.64 -43.05 17.48	0064 H02 47.75 -50.99 22.13	0073 I02 51.86 -58.91 26.77	0082 J02 21.77 9.82 -1.26
03	0002 A03 19.94 8.23 -11.43	0011 B03 24.05 0.48 -11.23	0020 C03 28.16 -7.27 -11.03	0029 D03 32.27 -15.21 -6.38	0038 E03 36.38 -23.14 -1.74	0047 F03 40.49 -31.08 2.9	0056 G03 44.61 -39.01 7.55	0065 H03 48.72 -46.94 12.2	0074 I03 52.83 -54.87 16.84	0083 J03 22.74 13.69 -6.74
04	0003 A04 20.9 12.1 -16.92	0012 B04 25.01 4.34 -16.72	0021 C04 29.12 -3.41 -16.52	0030 D04 33.24 -11.17 -16.32	0039 E04 37.35 -19.1 -11.67	0048 F04 41.46 -27.03 -7.02	0057 G04 45.57 -34.97 -2.37	0066 H04 49.68 -42.9 2.26	0075 I04 53.79 -50.83 6.91	0084 J04 23.7 17.56 -12.23
05	0004 A05 21.87 15.97 -22.41	0013 B05 25.98 8.21 -22.2	0022 C05 30.09 0.45 -22.0	0031 D05 34.2 -7.3 -21.8	0040 E05 38.31 -15.06 -21.6	0049 F05 42.42 -22.99 -16.95	0058 G05 46.54 -30.92 -12.31	0067 H05 50.65 -38.86 -7.66	0076 I05 54.76 -46.79 -3.01	0085 J05 24.67 21.43 -17.71
06	0005 A06 22.83 19.84 -27.89	0014 B06 26.94 12.08 -27.69	0023 C06 31.05 4.32 -27.49	0032 D06 35.16 -3.43 -27.29	0041 E06 39.28 -11.19 -27.09	0050 F06 43.39 -18.95 -26.89	0059 G06 47.5 -26.88 -22.24	0068 H06 51.61 -34.82 -17.59	0077 I06 55.72 -42.74 -12.95	0086 J06 25.63 25.3 -23.2
07	0006 A07 23.79 23.7 -33.38	0015 B07 27.9 15.95 -33.18	0024 C07 32.02 8.19 -32.98	0033 D07 36.13 0.43 -32.77	0042 E07 40.24 -7.32 -32.57	0051 F07 44.35 -15.08 -32.37	0060 G07 48.47 -22.84 -32.17	0069 H07 52.58 -30.77 -27.52	0078 I07 56.69 -38.7 -22.88	0087 J07 26.59 29.17 -28.69
08	0007 A08 24.76 27.57 -38.86	0016 B08 28.87 19.82 -38.66	0025 C08 32.98 12.06 -38.46	0034 D08 37.09 4.3 -38.26	0043 E08 41.2 -3.45 -38.06	0052 F08 45.32 -11.21 -37.86	0061 G08 49.43 -18.97 -37.66	0070 H08 53.54 -26.73 -37.46	0079 I08 57.65 -34.66 -32.81	0088 J08 27.56 33.04 -34.17
09	0008 A09 25.72 31.44 -44.35	0017 B09 29.83 23.68 -44.14	0026 C09 33.94 15.92 -43.94	0035 D09 38.06 8.16 -43.74	0044 E09 42.17 0.4 -43.54	0053 F09 46.28 -7.35 -43.34	0062 G09 50.39 -15.11 -43.14	0071 H09 54.51 -22.87 -42.94	0080 I09 58.61 -30.62 -42.74	0089 J09 28.52 36.9 -39.65
10	0243 A10 29.23 24.79 19.22	0252 B10 34.53 15.24 24.73	0261 C10 39.84 5.68 30.24	0270 D10 45.14 -3.87 35.76	0279 E10 49.25 -11.8 40.4	0288 F10 53.36 -19.73 45.05	0297 G10 57.47 -27.67 49.7	0306 H10 61.59 -35.6 54.35	0315 I10 65.69 -43.53 58.99	0324 J10 32.97 32.89 25.79
11	0244 A11 29.26 26.03 11.87	0253 B11 35.16 16.51 13.31	0262 C11 40.47 6.95 18.83	0271 D11 45.77 -2.6 24.34	0280 E11 49.88 -10.53 28.99	0289 F11 53.99 -18.46 33.63	0298 G11 58.1 -26.4 38.28	0307 H11 62.22 -34.33 42.93	0316 I11 66.32 -42.26 47.57	0325 J11 33.0 34.13 18.44
12	0245 A12 29.28 27.26 4.51	0254 B12 35.19 17.75 5.95	0263 C12 41.1 8.22 7.4	0272 D12 46.4 -1.32 12.91	0281 E12 50.51 -9.26 17.56	0290 F12 54.62 -17.19 22.21	0299 G12 58.73 -25.13 26.85	0308 H12 62.85 -33.06 31.5	0317 I12 66.95 -40.99 36.15	0326 J12 33.02 35.36 11.08
13	0246 A13 29.3 28.5 -2.84	0255 B13 35.21 18.98 -1.39	0264 C13 41.12 9.46 0.04	0273 D13 47.03 -0.05 1.48	0282 E13 51.14 -7.99 6.13	0291 F13 55.25 -15.92 10.78	0300 G13 59.36 -23.86 15.43	0309 H13 63.48 -31.79 20.08	0318 I13 67.58 -39.72 24.72	0327 J13 33.05 36.6 3.72
14	0247 A14 30.27 32.37 -8.32	0256 B14 36.17 22.85 -6.88	0265 C14 42.08 13.33 -5.44	0274 D14 47.99 3.81 -3.99	0283 E14 52.11 -3.94 -3.79	0292 F14 56.22 -11.88 0.85	0301 G14 60.33 -19.81 5.5	0310 H14 64.44 -27.75 10.14	0319 I14 68.55 -35.67 14.79	0328 J14 33.07 37.84 -3.63
15	0248 A15 31.23 36.24 -13.81	0257 B15 37.14 26.72 -12.37	0266 C15 43.05 17.2 -10.92	0275 D15 48.96 7.67 -9.48	0284 E15 53.07 -0.08 -9.28	0293 F15 57.18 -7.84 -9.07	0302 G15 61.29 -15.77 -4.43	0311 H15 65.41 -23.7 0.21	0320 I15 69.51 -31.63 4.86	0329 J15 34.03 41.71 -9.12
16	0249 A16 32.2 40.11 -19.3	0258 B16 38.1 30.59 -17.85	0267 C16 44.01 21.07 -16.41	0276 D16 49.92 11.54 -14.96	0285 E16 54.03 3.78 -14.76	0294 F16 58.15 -3.97 -14.56	0303 G16 62.26 -11.73 -14.36	0312 H16 66.37 -19.66 -9.71	0321 I16 70.48 -27.59 -5.07	0330 J16 35.0 45.57 -14.6
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18	0251 A18 34.12 47.84 -30.26	0260 B18 40.03 38.32 -28.82	0269 C18 45.94 28.8 -27.38	0278 D18 51.85 19.28 -25.93	0287 E18 55.96 11.52 -25.73	0296 F18 60.07 3.76 -25.53	0305 G18 64.19 -3.99 -25.33	0314 H18 68.3 -11.75 -25.13	0323 I18 72.41 -19.51 -24.92	0332 J18 36.92 53.31 -25.57
19	0486 A19 40.46 49.1 38.93	0495 B19 45.76 39.54 44.43	0504 C19 51.06 29.99 49.95	0513 D19 56.36 20.43 55.46	0522 E19 61.67 10.87 60.97	0531 F19 66.97 1.31 66.48	0540 G19 72.28 -8.24 72.0	0549 H19 76.39 -16.17 76.64	0558 I19 80.49 -24.1 81.29	0567 J19 44.2 57.2 45.49
20	0487 A20 40.48 50.33 31.57	0496 B20 46.39 40.82 33.02	0505 C20 51.69 31.26 38.53	0514 D20 56.99 21.7 44.04	0523 E20 62.3 12.14 49.55	0532 F20 67.6 2.58 55.07	0541 G20 72.9 -6.97 60.58	0550 H20 77.02 -14.9 65.23	0559 I20 81.12 -22.83 69.87	0568 J20 44.22 58.43 38.14
21	0488 A21 40.5 51.57 24.21	0497 B21 46.41 42.05 25.66	0506 C21 52.32 32.53 27.1	0515 D21 57.62 22.97 32.61	0524 E21 62.93 13.41 38.13	0533 F21 68.23 3.85 43.64	0542 G21 73.54 -5.7 49.15	0551 H21 77.65 -13.63 53.8	0560 I21 81.75 -21.56 58.44	0569 J21 44.25 59.67 30.78
22	0489 A22 40.53 52.8 16.85	0498 B22 46.43 43.29 18.3	0507 C22 52.34 33.76 19.74	0516 D22 58.25 24.24 21.19	0525 E22 63.56 14.68 26.7	0534 F22 68.86 5.12 32.21	0543 G22 74.17 -4.43 37.73	0552 H22 78.28 -12.36 42.37	0561 I22 82.38 -20.29 47.02	0570 J22 44.27 60.9 23.42
23	0490 A23 40.55 54.04 9.5	0499 B23 46.46 44.52 10.94	0508 C23 52.37 35.0 12.38	0517 D23 58.28 25.48 13.83	0526 E23 64.19 15.95 15.27	0535 F23 69.49 6.39 20.79	0544 G23 74.8 -3.15 26.3	0553 H23 78.91 -11.09 30.95	0562 I23 83.01 -19.02 35.59	0571 J23 44.29 62.14 16.06
24	0491 A24 40.58 55.28 2.14	0500 B24 46.48 45.76 3.58	0509 C24 52.39 36.24 5.03	0518 D24 58.3 26.71 6.47	0527 E24 64.21 17.19 7.92	0536 F24 70.12 7.67 9.36	0545 G24 75.43 -1.88 14.87	0554 H24 79.54 -9.82 19.52	0563 I24 83.64 -17.74 24.17	0572 J24 44.32 63.38 8.7
25	0492 A25 40.6 56.51 -5.21	0501 B25 46.51 47.0 -3.77	0510 C25 52.42 37.47 -2.32	0519 D25 58.33 27.95 -0.88	0528 E25 64.24 18.43 0.56	0537 F25 70.15 8.9 2.0	0546 G25 76.06 -0.61 3.44	0555 H25 80.17 -8.55 8.09	0564 I25 84.27 -16.47 12.74	0573 J25 44.34 64.61 1.35
26	0493 A26 41.56 60.38 -10.7	0502 B26 47.47 50.86 -9.25	0511 C26 53.38 41.34 -7.81	0520 D26 59.29 31.82 -6.36	0529 E26 65.2 22.29 -4.92	0538 F26 71.11 12.77 -3.47	0547 G26 77.02 3.25 -2.03	0556 H26 81.13 -4.5 -1.83	0565 I26 85.24 -12.43 2.81	0574 J26 44.36 65.85 -6.0
27	0494 A27 42.53 64.25 -16.18	0503 B27 48.43 54.73 -14.74	0512 C27 54.34 45.21 -13.29	0521 D27 60.25 35.68 -11.85	0530 E27 66.16 26.16 -10.4	0539 F27 72.07 16.64 -8.96	0548 G27 77.98 7.11 -7.51	0557 H27 82.09 -0.64 -7.31	0566 I27 86.2 -8.39 -7.11	0575 J27 45.33 69.72 -11.48

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 27.05 -0.95 11.6	0099 L01 31.16 -8.89 16.24	0108 M01 35.27 -16.82 20.89	0117 N01 39.38 -24.75 25.54	0126 O01 43.5 -32.69 30.19	0135 P01 47.61 -40.62 34.83	0144 Q01 51.72 -48.55 39.48	0153 R01 55.83 -56.48 44.12	0162 S01 25.49 16.69 12.66	0171 T01 30.79 7.14 18.16
02	0091 K02 27.68 0.31 0.17	0100 L02 31.79 -7.62 4.83	0109 M02 35.9 -15.55 9.47	0118 N02 40.01 -23.48 14.12	0127 O02 44.12 -31.42 18.77	0136 P02 48.24 -39.35 23.42	0145 Q02 52.35 -47.28 28.06	0154 R02 56.46 -55.21 32.71	0163 S02 25.52 17.93 5.3	0172 T02 31.42 8.41 6.75
03	0092 K03 28.64 4.18 -5.3	0101 L03 32.76 -3.57 -5.1	0110 M03 36.87 -11.51 -0.45	0119 N03 40.98 -19.44 4.19	0128 O03 45.09 -27.37 8.84	0137 P03 49.2 -35.31 13.48	0146 Q03 53.31 -43.24 18.13	0155 R03 57.42 -51.17 22.78	0164 S03 25.54 19.16 -2.05	0173 T03 31.45 9.65 -0.6
04	0093 K04 29.61 8.05 -10.78	0102 L04 33.72 0.29 -10.58	0111 M04 37.83 -7.46 -10.38	0120 N04 41.94 -15.4 -5.73	0129 O04 46.06 -23.33 -1.09	0138 P04 50.17 -31.26 3.55	0147 Q04 54.28 -39.2 8.2	0156 R04 58.39 -47.13 12.84	0165 S04 26.5 23.03 -7.53	0174 T04 32.41 13.52 -6.09
05	0094 K05 30.57 11.92 -16.27	0103 L05 34.68 4.16 -16.07	0112 M05 38.8 -3.59 -15.87	0121 N05 42.91 -11.36 -15.67	0130 O05 47.02 -19.29 -11.02	0139 P05 51.13 -27.22 -6.37	0148 Q05 55.24 -35.16 -1.72	0157 R05 59.35 -43.08 2.91	0166 S05 27.47 26.9 -13.02	0175 T05 33.37 17.38 -11.58
06	0095 K06 31.54 15.78 -21.76	0104 L06 35.65 8.02 -21.56	0113 M06 39.76 0.26 -21.35	0122 N06 43.87 -7.49 -21.15	0131 O06 47.99 -15.25 -20.95	0140 P06 52.1 -23.18 -16.3	0149 Q06 56.21 -31.11 -11.66	0158 R06 60.32 -39.04 -7.01	0167 S06 28.43 30.77 -18.51	0176 T06 34.34 21.25 -17.06
07	0096 K07 32.5 19.65 -27.24	0105 L07 36.61 11.89 -27.04	0114 M07 40.72 4.13 -26.84	0123 N07 44.84 -3.62 -26.64	0132 O07 48.95 -11.38 -26.44	0141 P07 53.06 -19.14 -26.24	0150 Q07 57.17 -27.07 -21.59	0159 R07 61.28 -35.0 -16.94	0168 S07 29.39 34.64 -23.99	0177 T07 35.3 25.12 -22.55
08	0097 K08 33.46 23.52 -32.73	0106 L08 37.58 15.76 -32.53	0115 M08 41.69 8.0 -32.33	0124 N08 45.8 0.24 -32.13	0133 O08 49.91 -7.51 -31.92	0142 P08 54.03 -15.27 -31.72	0151 Q08 58.14 -23.03 -31.52	0160 R08 62.25 -30.96 -26.88	0169 S08 30.36 38.51 -29.48	0178 T08 36.26 28.99 -28.03
09	0098 K09 34.43 27.39 -38.21	0107 L09 38.54 19.63 -38.01	0116 M09 42.65 11.87 -37.81	0125 N09 46.76 4.11 -37.61	0134 O09 50.88 -3.64 -37.41	0143 P09 54.99 -11.4 -37.2	0152 Q09 59.1 -19.16 -37.0	0161 R09 63.21 -26.92 -36.8	0170 S09 31.32 42.37 -34.96	0179 T09 37.23 32.86 -33.52
10	0333 K10 38.27 23.34 31.3	0342 L10 43.58 13.78 36.81	0351 M10 48.88 4.22 42.32	0360 N10 54.19 -5.32 47.84	0369 O10 58.3 -13.26 52.48	0378 P10 62.41 -21.19 57.13	0387 Q10 66.52 -29.13 61.78	0396 R10 70.63 -37.05 66.42	0405 S10 36.72 40.99 32.36	0414 T10 42.02 31.44 37.87
11	0334 K11 38.9 24.61 19.88	0343 L11 44.21 15.05 25.39	0352 M11 49.51 5.5 30.91	0361 N11 54.82 -4.05 36.42	0370 O11 58.93 -11.99 41.07	0379 P11 63.04 -19.92 45.71	0388 Q11 67.15 -27.86 50.36	0397 R11 71.26 -35.78 55.01	0406 S11 36.74 42.23 25.0	0415 T11 42.65 32.71 26.45
12	0335 K12 38.93 25.85 12.52	0344 L12 44.84 16.33 13.97	0353 M12 50.14 6.77 19.48	0362 N12 55.45 -2.78 24.99	0371 O12 59.56 -10.72 29.64	0380 P12 63.67 -18.65 34.29	0389 Q12 67.78 -26.58 38.93	0398 R12 71.89 -34.51 43.58	0407 S12 36.76 43.47 17.65	0416 T12 42.67 33.95 19.09
13	0336 K13 38.95 27.08 5.16	0345 L13 44.86 17.56 6.61	0354 M13 50.77 8.04 8.05	0363 N13 56.08 -1.51 13.57	0372 O13 60.19 -9.45 18.21	0381 P13 64.3 -17.38 22.86	0390 Q13 68.41 -25.31 27.51	0399 R13 72.52 -33.24 32.15	0408 S13 36.79 44.7 10.29	0417 T13 42.69 35.19 11.73
14	0337 K14 38.98 28.32 -2.19	0346 L14 44.89 18.8 -0.74	0355 M14 50.8 9.27 0.69	0364 N14 56.71 -0.24 2.13	0373 O14 60.82 -8.17 6.79	0382 P14 64.93 -16.11 11.43	0391 Q14 69.04 -24.04 16.08	0400 R14 73.15 -31.97 20.73	0409 S14 36.81 45.94 2.93	0418 T14 42.72 36.42 4.37
15	0338 K15 39.94 32.19 -7.67	0347 L15 45.85 22.67 -6.23	0356 M15 51.76 13.14 -4.78	0365 N15 57.67 3.62 -3.34	0374 O15 61.78 -4.13 -3.14	0383 P15 65.89 -12.07 1.5	0392 Q15 70.0 -20.0 6.15	0401 R15 74.11 -27.93 10.79	0410 S15 36.83 47.17 -4.42	0419 T15 42.74 37.66 -2.98
16	0339 K16 40.9 36.06 -13.16	0348 L16 46.81 26.54 -11.71	0357 M16 52.72 17.01 -10.27	0366 N16 58.63 7.49 -8.82	0375 O16 62.75 -0.26 -8.62	0384 P16 66.86 -8.02 -8.42	0393 Q16 70.97 -15.96 -3.77	0402 R16 75.08 -23.88 0.86	0411 S16 37.8 51.04 -9.91	0420 T16 43.7 41.53 -8.46
17	0340 K17 41.87 39.93 -18.64	0349 L17 47.78 30.4 -17.2	0358 M17 53.69 20.88 -15.75	0367 N17 59.6 11.36 -14.31	0376 O17 63.71 3.6 -14.11	0385 P17 67.82 -4.15 -13.91	0394 Q17 71.93 -11.91 -13.71	0403 R17 76.04 -19.84 -9.06	0412 S17 38.76 54.91 -15.39	0421 T17 44.67 45.4 -13.95
18	0341 K18 42.83 43.79 -24.13	0350 L18 48.74 34.27 -22.68	0359 M18 54.65 24.75 -21.24	0368 N18 60.56 15.22 -19.79	0377 O18 64.67 7.46 -19.59	0386 P18 68.78 -0.29 -19.39	0395 Q18 72.9 -8.05 -19.19	0404 R18 77.01 -15.8 -18.99	0413 S18 39.73 58.78 -20.87	0422 T18 45.63 49.26 -19.43
19	0576 K19 49.5 47.65 51.0	0585 L19 54.8 38.09 56.51	0594 M19 60.11 28.53 62.03	0603 N19 65.41 18.97 67.54	0612 O19 70.71 9.41 73.05	0621 P19 76.02 -0.14 78.56	0630 Q19 81.32 -9.7 84.08	0639 R19 85.43 -17.62 88.72	0648 S19 47.94 65.29 52.06	0657 T19 53.24 55.74 57.56
20	0577 K20 50.13 48.92 39.58	0586 L20 55.43 39.36 45.1	0595 M20 60.74 29.8 50.61	0604 N20 66.04 20.24 56.12	0613 O20 71.34 10.68 61.63	0622 P20 76.65 1.12 67.15	0631 Q20 81.95 -8.43 72.66	0640 R20 86.06 -16.35 77.3	0649 S20 47.96 66.53 44.7	0658 T20 53.87 57.01 46.15
21	0578 K21 50.15 50.15 32.23	0587 L21 56.06 40.63 33.67	0596 M21 61.37 31.07 39.18	0605 N21 66.67 21.51 44.69	0614 O21 71.97 11.95 50.21	0623 P21 77.28 2.39 55.72	0632 Q21 82.58 -7.15 61.23	0641 R21 86.69 -15.08 65.88	0650 S21 47.98 67.76 37.34	0659 T21 53.89 58.25 38.79
22	0579 K22 50.18 51.39 24.87	0588 L22 56.08 41.87 26.31	0597 M22 62.0 32.34 27.76	0606 N22 67.3 22.78 33.27	0615 O22 72.6 13.22 38.78	0624 P22 77.91 3.67 44.29	0633 Q22 83.21 -5.88 49.81	0642 R22 87.32 -13.81 54.45	0651 S22 48.01 69.0 29.98	0660 T22 53.91 59.48 31.43
23	0580 K23 50.2 52.62 17.51	0589 L23 56.11 43.1 18.95	0598 M23 62.02 33.58 20.4	0607 N23 67.93 24.05 21.84	0616 O23 73.23 14.5 27.35	0625 P23 78.54 4.94 32.87	0634 Q23 83.84 -4.61 38.38	0643 R23 87.95 -12.54 43.02	0652 S23 48.03 70.24 22.63	0661 T23 53.94 60.72 24.07
24	0581 K24 50.22 53.86 10.15	0590 L24 56.13 44.34 11.59	0599 M24 62.04 34.81 13.04	0608 N24 67.95 25.29 14.48	0617 O24 73.86 15.77 15.93	0626 P24 79.17 6.21 21.44	0635 Q24 84.47 -3.34 26.95	0644 R24 88.58 -11.27 31.6	0653 S24 48.06 71.47 15.27	0662 T24 53.96 61.96 16.71
25	0582 K25 50.25 55.1 2.79	0591 L25 56.16 45.57 4.23	0600 M25 62.07 36.05 5.68	0609 N25 67.98 26.53 7.12	0618 O25 73.89 17.0 8.57	0627 P25 79.8 7.48 10.01	0636 Q25 85.1 -2.07 15.53	0645 R25 89.21 -10.0 20.17	0654 S25 48.08 72.71 7.91	0663 T25 53.98 63.19 9.35
26	0583 K26 50.27 56.33 -4.56	0592 L26 56.18 46.81 -3.11	0601 M26 62.09 37.29 -1.67	0610 N26 68.0 27.76 -0.22	0619 O26 73.91 18.24 1.21	0628 P26 79.82 8.72 2.66	0637 Q26 85.73 -0.8 4.09	0646 R26 89.84 -8.73 8.75	0655 S26 48.1 73.94 0.55	0664 T26 54.01 64.43 1.99
27	0584 K27 51.23 60.2 -10.04	0593 L27 57.14 50.68 -8.6	0602 M27 63.05 41.15 -7.15	0611 N27 68.96 31.63 -5.71	0620 O27 74.87 22.1 -4.26	0629 P27 80.78 12.58 -2.82	0638 Q27 86.69 3.06 -1.37	0647 R27 90.8 -4.69 -1.17	0656 S27 48.13 75.18 -6.79	0665 T27 54.03 65.66 -5.35

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 36.1 -2.41 23.68	0189 V01 40.21 -10.34 28.32	0198 W01 44.32 -18.28 32.97	0207 X01 48.43 -26.21 37.62	0216 Y01 52.54 -34.14 42.27	0225 Z01 56.65 -42.08 46.91	0234 a01 60.76 -50.01 51.56	0729 b01 95.4 -0.98 4.75	0738 c01 89.47 7.29 10.66	0747 d01 83.53 15.57 16.58
02	0181 U02 36.73 -1.14 12.26	0190 V02 40.84 -9.07 16.91	0199 W02 44.95 -17.01 21.55	0208 X02 49.06 -24.94 26.2	0217 Y02 53.17 -32.87 30.85	0226 Z02 57.28 -40.81 35.5	0235 a02 61.39 -48.73 40.14	0730 b02 90.8 -4.69 -1.17	0739 c02 85.73 -0.8 4.09	0748 d02 79.8 7.48 10.01
03	0182 U03 37.36 0.12 0.82	0191 V03 41.47 -7.8 5.48	0200 W03 45.58 -15.74 10.13	0209 X03 49.69 -23.67 14.77	0218 Y03 53.8 -31.6 19.42	0227 Z03 57.91 -39.54 24.07	0236 a03 62.02 -47.46 28.71	0731 b03 86.2 -8.39 -7.11	0740 c03 81.13 -4.5 -1.83	0749 d03 76.06 -0.61 3.44
04	0183 U04 38.32 3.99 -4.64	0192 V04 42.43 -3.76 -4.44	0201 W04 46.54 -11.69 0.19	0210 X04 50.65 -19.63 4.84	0219 Y04 54.77 -27.56 9.49	0228 Z04 58.88 -35.49 14.14	0237 a04 62.98 -43.42 18.78	0732 b04 81.6 -12.1 -13.05	0741 c04 76.53 -8.21 -7.77	0750 d04 71.46 -4.32 -2.48
05	0184 U05 39.28 7.86 -10.13	0193 V05 43.4 0.1 -9.93	0202 W05 47.51 -7.65 -9.73	0211 X05 51.62 -15.58 -5.08	0220 Y05 55.73 -23.52 -0.43	0229 Z05 59.84 -31.45 4.2	0238 a05 63.95 -39.38 8.85	0733 b05 77.01 -15.8 -18.99	0742 c05 71.93 -11.91 -13.71	0751 d05 66.86 -8.02 -8.42
06	0185 U06 40.25 11.73 -15.62	0194 V06 44.36 3.97 -15.42	0203 W06 48.47 -3.78 -15.21	0212 X06 52.58 -11.54 -15.01	0221 Y06 56.7 -19.48 -10.37	0230 Z06 60.81 -27.41 -5.72	0239 a06 64.91 -35.34 -1.07	0734 b06 72.41 -19.51 -24.92	0743 c06 67.34 -15.62 -19.64	0752 d06 62.26 -11.73 -14.36
07	0186 U07 41.21 15.6 -21.1	0195 V07 45.32 7.84 -20.9	0204 W07 49.44 0.08 -20.7	0213 X07 53.55 -7.67 -20.5	0222 Y07 57.66 -15.43 -20.3	0231 Z07 61.77 -23.37 -15.65	0240 a07 65.88 -31.29 -11.01	0735 b07 67.81 -23.21 -30.86	0744 c07 62.74 -19.32 -25.58	0753 d07 57.66 -15.43 -20.3
08	0187 U08 42.17 19.47 -26.59	0196 V08 46.29 11.71 -26.39	0205 W08 50.4 3.95 -26.19	0214 X08 54.51 -3.8 -25.99	0223 Y08 58.62 -11.56 -25.78	0232 Z08 62.74 -19.32 -25.58	0241 a08 66.84 -27.25 -20.94	0736 b08 63.21 -26.92 -36.8	0745 c08 58.14 -23.03 -31.52	0754 d08 53.06 -19.14 -26.24
09	0188 U09 43.14 23.33 -32.07	0197 V09 47.25 15.57 -31.87	0206 W09 51.36 7.81 -31.67	0215 X09 55.47 0.05 -31.47	0224 Y09 59.59 -7.7 -31.27	0233 Z09 63.7 -15.46 -31.06	0242 a09 67.81 -23.21 -30.86	0737 b09 58.61 -30.62 -42.74	0746 c09 53.54 -26.73 -37.46	0755 d09 48.47 -22.84 -32.17
10	0423 U10 47.32 21.88 43.38	0432 V10 52.62 12.33 48.89	0441 W10 57.93 2.77 54.4	0450 X10 63.23 -6.78 59.92	0459 Y10 67.34 -14.72 64.56	0468 Z10 71.45 -22.65 69.21	0477 a10 75.56 -30.58 73.85	0810 b10 95.4 -0.98 4.75	0819 c10 94.77 -2.26 16.17	0828 d10 94.14 -3.53 27.6
11	0424 U11 47.95 23.16 31.96	0433 V11 53.25 13.6 37.47	0442 W11 58.56 4.04 42.99	0451 X11 63.86 -5.51 48.5	0460 Y11 67.97 -13.44 53.15	0469 Z11 72.08 -21.38 57.79	0478 a11 76.19 -29.31 62.44	0811 b11 86.69 3.06 -1.37	0820 c11 85.73 -0.8 4.09	0829 d11 85.1 -2.07 15.53
12	0425 U12 48.58 24.43 20.53	0434 V12 53.88 14.87 26.05	0443 W12 59.19 5.31 31.56	0452 X12 64.49 -4.24 37.07	0461 Y12 68.6 -12.17 41.72	0470 Z12 72.71 -20.11 46.37	0479 a12 76.82 -28.03 51.01	0812 b12 77.98 7.11 -7.51	0821 c12 77.02 3.25 -2.03	0830 d12 76.06 -0.61 3.44
13	0426 U13 48.6 25.66 13.18	0435 V13 54.51 16.14 14.62	0444 W13 59.82 6.58 20.13	0453 X13 65.12 -2.97 25.65	0462 Y13 69.23 -10.9 30.29	0471 Z13 73.34 -18.84 34.94	0480 a13 77.45 -26.76 39.59	0813 b13 69.27 11.17 -13.65	0822 c13 68.31 7.3 -8.17	0831 d13 67.34 3.43 -2.68
14	0427 U14 48.63 26.9 5.82	0436 V14 54.54 17.37 7.26	0445 W14 60.45 7.85 8.71	0454 X14 65.75 -1.7 14.22	0463 Y14 69.86 -9.63 18.87	0472 Z14 73.97 -17.57 23.51	0481 a14 78.08 -25.49 28.16	0814 b14 60.56 15.22 -19.79	0823 c14 59.6 11.36 -14.31	0832 d14 58.63 7.49 -8.82
15	0428 U15 48.65 28.14 -1.53	0437 V15 54.56 18.61 -0.09	0446 W15 60.47 9.09 1.35	0455 X15 66.38 -0.43 2.79	0464 Y15 70.49 -8.36 7.44	0473 Z15 74.6 -16.29 12.09	0482 a15 78.71 -24.22 16.73	0815 b15 51.85 19.28 -25.93	0824 c15 50.89 15.41 -20.45	0833 d15 49.92 11.54 -14.96
16	0429 U16 49.61 32.0 -7.02	0438 V16 55.52 22.48 -5.57	0447 W16 61.43 12.96 -4.13	0456 X16 67.34 3.43 -2.68	0465 Y16 71.46 -4.32 -2.48	0474 Z16 75.57 -12.25 2.16	0483 a16 79.68 -20.18 6.8	0816 b16 43.14 23.33 -32.07	0825 c16 42.17 19.47 -26.59	0834 d16 41.21 15.6 -21.1
17	0430 U17 50.58 35.87 -12.5	0439 V17 56.49 26.35 -11.06	0448 W17 62.4 16.83 -9.61	0457 X17 68.31 7.3 -8.17	0466 Y17 72.42 -0.45 -7.97	0475 Z17 76.53 -8.21 -7.77	0484 a17 80.64 -16.14 -3.12	0817 b17 34.43 27.39 -38.21	0826 c17 33.46 23.52 -32.73	0835 d17 32.5 19.65 -27.24
18	0431 U18 51.54 39.74 -17.99	0440 V18 57.45 30.21 -16.54	0449 W18 63.36 20.69 -15.1	0458 X18 69.27 11.17 -13.65	0467 Y18 73.38 3.41 -13.45	0476 Z18 77.5 -4.34 -13.25	0485 a18 81.6 -12.1 -13.05	0818 b18 25.72 31.44 -44.35	0827 c18 24.76 27.57 -38.86	0836 d18 23.79 23.7 -33.38
19	0666 U19 58.54 46.18 63.08	0675 V19 63.84 36.62 68.59	0684 W19 69.15 27.06 74.1	0693 X19 74.45 17.51 79.61	0702 Y19 79.76 7.95 85.13	0711 Z19 85.06 -1.6 90.64	0720 a19 90.36 -11.15 96.15	0891 b19 95.4 -0.98 4.75	0900 c19 89.84 -8.73 8.75	0909 d19 84.27 -16.47 12.74
20	0667 U20 59.17 47.45 51.66	0676 V20 64.47 37.89 57.17	0685 W20 69.78 28.33 62.68	0694 X20 75.08 18.78 68.2	0703 Y20 80.38 9.22 73.71	0712 Z20 85.69 -0.33 79.22	0721 a20 90.99 -9.88 84.73	0892 b20 89.49 8.52 3.31	0901 c20 85.73 -0.8 4.09	0910 d20 80.17 -8.55 8.09
21	0668 U21 59.8 48.72 40.23	0677 V21 65.1 39.16 45.74	0686 W21 70.41 29.61 51.26	0695 X21 75.71 20.05 56.77	0704 Y21 81.01 10.49 62.28	0713 Z21 86.32 0.93 67.79	0722 a21 91.62 -8.61 73.3	0893 b21 83.58 18.05 1.87	0902 c21 79.82 8.72 2.66	0911 d21 76.06 -0.61 3.44
22	0669 U22 59.82 49.96 32.87	0678 V22 65.73 40.44 34.32	0687 W22 71.04 30.88 39.83	0696 X22 76.34 21.32 45.34	0705 Y22 81.64 11.76 50.86	0714 Z22 86.95 2.2 56.37	0723 a22 92.25 -7.34 61.88	0894 b22 77.67 27.57 0.42	0903 c22 73.91 18.24 1.21	0912 d22 70.15 8.9 2.0
23	0670 U23 59.85 51.2 25.51	0679 V23 65.76 41.67 26.96	0688 W23 71.67 32.15 28.4	0697 X23 76.97 22.59 33.92	0706 Y23 82.27 13.03 39.43	0715 Z23 87.58 3.47 44.94	0724 a23 92.88 -6.07 50.45	0895 b23 71.76 37.09 -1.01	0904 c23 68.0 27.76 -0.22	0913 d23 64.24 18.43 0.56
24	0671 U24 59.87 52.43 18.16	0680 V24 65.78 42.91 19.6	0689 W24 71.69 33.38 21.05	0698 X24 77.6 23.86 22.49	0707 Y24 82.9 14.3 28.0	0716 Z24 88.21 4.74 33.52	0725 a24 93.51 -4.8 39.02	0896 b24 65.85 46.62 -2.46	0905 c24 62.09 37.29 -1.67	0914 d24 58.33 27.95 -0.88
25	0672 U25 59.89 53.67 10.8	0681 V25 65.8 44.14 12.24	0690 W25 71.71 34.62 13.69	0699 X25 77.62 25.1 15.13	0708 Y25 83.53 15.57 16.58	0717 Z25 88.84 6.01 22.09	0726 a25 94.14 -3.53 27.6	0897 b25 59.94 56.14 -3.9	0906 c25 56.18 46.81 -3.11	0915 d25 52.42 37.47 -2.32
26	0673 U26 59.92 54.9 3.44	0682 V26 65.83 45.38 4.88	0691 W26 71.74 35.86 6.33	0700 X26 77.65 26.33 7.77	0709 Y26 83.56 16.81 9.22	0718 Z26 89.47 7.29 10.66	0727 a26 94.77 -2.26 16.17	0898 b26 54.03 65.66 -5.35	0907 c26 50.27 56.33 -4.56	0916 d26 46.51 47.0 -3.77
27	0674 U27 59.94 56.14 -3.9	0683 V27 65.85 46.62 -2.46	0692 W27 71.76 37.09 -1.01	0701 X27 77.67 27.57 0.42	0710 Y27 83.58 18.05 1.87	0719 Z27 89.49 8.52 3.31	0728 a27 95.4 -0.98 4.75	0899 b27 48.13 75.18 -6.79	0908 c27 44.36 65.85 -6.0	0917 d27 40.6 56.51 -5.21

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 77.6 23.86 22.49	0765 f01 71.67 32.15 28.4	0774 g01 65.73 40.44 34.32	0783 h01 59.8 48.72 40.23	0792 i01 53.87 57.01 46.15	0801 j01 47.94 65.29 52.06	0972 k01 18.02 0.49 -0.47	0981 l01 18.02 0.49 -0.47	0990 m01 18.02 0.49 -0.47	0999 n01 18.02 0.49 -0.47
02	0757 e02 73.86 15.77 15.93	0766 f02 67.93 24.05 21.84	0775 g02 62.0 32.34 27.76	0784 h02 56.06 40.63 33.67	0793 i02 50.13 48.92 39.58	0802 j02 44.2 57.2 45.49	0973 k02 27.68 0.31 0.17	0982 l02 27.68 0.31 0.17	0991 m02 27.68 0.31 0.17	1000 n02 27.68 0.31 0.17
03	0758 e03 70.12 7.67 9.36	0767 f03 64.19 15.95 15.27	0776 g03 58.25 24.24 21.19	0785 h03 52.32 32.53 27.1	0794 i03 46.39 40.82 33.02	0803 j03 40.46 49.1 38.93	0974 k03 37.36 0.12 0.82	0983 l03 37.36 0.12 0.82	0992 m03 37.36 0.12 0.82	1001 n03 37.36 0.12 0.82
04	0759 e04 66.38 -0.43 2.79	0768 f04 60.45 7.85 8.71	0777 g04 54.51 16.14 14.62	0786 h04 48.58 24.43 20.53	0795 i04 42.65 32.71 26.45	0804 j04 36.72 40.99 32.36	0975 k04 47.03 -0.05 1.48	0984 l04 47.03 -0.05 1.48	0993 m04 47.03 -0.05 1.48	1002 n04 47.03 -0.05 1.48
05	0760 e05 61.78 -4.13 -3.14	0769 f05 56.71 -0.24 2.13	0778 g05 50.77 8.04 8.05	0787 h05 44.84 16.33 13.97	0796 i05 38.9 24.61 19.88	0805 j05 32.97 32.89 25.79	0976 k05 56.71 -0.24 2.13	0985 l05 56.71 -0.24 2.13	0994 m05 56.71 -0.24 2.13	1003 n05 56.71 -0.24 2.13
06	0761 e06 57.18 -7.84 -9.07	0770 f06 52.11 -3.94 -3.79	0779 g06 47.03 -0.05 1.48	0788 h06 41.1 8.22 7.4	0797 i06 35.16 16.51 13.31	0806 j06 29.23 24.79 19.22	0977 k06 66.38 -0.43 2.79	0986 l06 66.38 -0.43 2.79	0995 m06 66.38 -0.43 2.79	1004 n06 66.38 -0.43 2.79
07	0762 e07 52.58 -11.54 -15.01	0771 f07 47.51 -7.65 -9.73	0780 g07 42.43 -3.76 -4.44	0789 h07 37.36 0.12 0.82	0798 i07 31.42 8.41 6.75	0807 j07 25.49 16.69 12.66	0978 k07 76.06 -0.61 3.44	0987 l07 76.06 -0.61 3.44	0996 m07 76.06 -0.61 3.44	1005 n07 76.06 -0.61 3.44
08	0763 e08 47.99 -15.25 -20.95	0772 f08 42.91 -11.36 -15.67	0781 g08 37.83 -7.46 -10.38	0790 h08 32.76 -3.57 -5.1	0799 i08 27.68 0.31 0.17	0808 j08 21.75 8.59 6.09	0979 k08 85.73 -0.8 4.09	0988 l08 85.73 -0.8 4.09	0997 m08 85.73 -0.8 4.09	1006 n08 85.73 -0.8 4.09
09	0764 e09 43.39 -18.95 -26.89	0773 f09 38.31 -15.06 -21.6	0782 g09 33.24 -11.17 -16.32	0791 h09 28.16 -7.27 -11.03	0800 i09 23.08 -3.38 -5.75	0809 j09 18.02 0.49 -0.47	0980 k09 95.4 -0.98 4.75	0989 l09 95.4 -0.98 4.75	0998 m09 95.4 -0.98 4.75	1007 n09 95.4 -0.98 4.75
10	0837 e10 93.51 -4.8 39.02	0846 f10 92.88 -6.07 50.45	0855 g10 92.25 -7.34 61.88	0864 h10 91.62 -8.61 73.3	0873 i10 90.99 -9.88 84.73	0882 j10 90.36 -11.15 96.15	1008 k10 18.02 0.49 -0.47	1024 l10 18.02 0.49 -0.47	1040 m10 18.02 0.49 -0.47	1056 n10 18.02 0.49 -0.47
11	0838 e11 84.47 -3.34 26.95	0847 f11 83.84 -4.61 38.38	0856 g11 83.21 -5.88 49.81	0865 h11 82.58 -7.15 61.23	0874 i11 81.95 -8.43 72.66	0883 j11 81.32 -9.7 84.08	1009 k11 23.17 0.4 -0.12	1025 l11 23.17 0.4 -0.12	1041 m11 23.17 0.4 -0.12	1057 n11 23.17 0.4 -0.12
12	0839 e12 75.43 -1.88 14.87	0848 f12 74.8 -3.15 26.3	0857 g12 74.17 -4.43 37.73	0866 h12 73.54 -5.7 49.15	0875 i12 72.9 -6.97 60.58	0884 j12 72.28 -8.24 72.0	1010 k12 28.33 0.3 0.21	1026 l12 28.33 0.3 0.21	1042 m12 28.33 0.3 0.21	1058 n12 28.33 0.3 0.21
13	0840 e13 66.38 -0.43 2.79	0849 f13 65.75 -1.7 14.22	0858 g13 65.12 -2.97 25.65	0867 h13 64.49 -4.24 37.07	0876 i13 63.86 -5.51 48.5	0885 j13 63.23 -6.78 59.92	1011 k13 33.49 0.2 0.56	1027 l13 33.49 0.2 0.56	1043 m13 33.49 0.2 0.56	1059 n13 33.49 0.2 0.56
14	0841 e14 57.67 3.62 -3.34	0850 f14 56.71 -0.24 2.13	0859 g14 56.08 -1.51 13.57	0868 h14 55.45 -2.78 24.99	0877 i14 54.82 -4.05 36.42	0886 j14 54.19 -5.32 47.84	1012 k14 38.65 0.1 0.91	1028 l14 38.65 0.1 0.91	1044 m14 38.65 0.1 0.91	1060 n14 38.65 0.1 0.91
15	0842 e15 48.96 7.67 -9.48	0851 f15 47.99 3.81 -3.99	0860 g15 47.03 -0.05 1.48	0869 h15 46.4 -1.32 12.91	0878 i15 45.77 -2.6 24.34	0887 j15 45.14 -3.87 35.76	1013 k15 43.81 0.0 1.26	1029 l15 43.81 0.0 1.26	1045 m15 43.81 0.0 1.26	1061 n15 43.81 0.0 1.26
16	0843 e16 40.25 11.73 -15.62	0852 f16 39.28 7.86 -10.13	0861 g16 38.32 3.99 -4.64	0870 h16 37.36 0.12 0.82	0879 i16 36.73 -1.14 12.26	0888 j16 36.1 -2.41 23.68	1014 k16 48.97 -0.09 1.61	1030 l16 48.97 -0.09 1.61	1046 m16 48.97 -0.09 1.61	1062 n16 48.97 -0.09 1.61
17	0844 e17 31.54 15.78 -21.76	0853 f17 30.57 11.92 -16.27	0862 g17 29.61 8.05 -10.78	0871 h17 28.64 4.18 -5.3	0880 i17 27.68 0.31 0.17	0889 j17 27.05 -0.95 11.6	1015 k17 54.13 -0.19 1.96	1031 l17 54.13 -0.19 1.96	1047 m17 54.13 -0.19 1.96	1063 n17 54.13 -0.19 1.96
18	0845 e18 22.83 19.84 -27.89	0854 f18 21.87 15.97 -22.41	0863 g18 20.9 12.1 -16.92	0872 h18 19.94 8.23 -11.43	0881 i18 18.98 4.36 -5.95	0890 j18 18.02 0.49 -0.47	1016 k18 59.29 -0.29 2.31	1032 l18 59.29 -0.29 2.31	1048 m18 59.29 -0.29 2.31	1064 n18 59.29 -0.29 2.31
19	0918 e19 78.71 -24.22 16.73	0927 f19 73.15 -31.97 20.73	0936 g19 67.58 -39.72 24.72	0945 h19 62.02 -47.46 28.71	0954 i19 56.46 -55.21 32.71	0963 j19 50.9 -62.95 36.7	1017 k19 64.45 -0.39 2.65	1033 l19 64.45 -0.39 2.65	1049 m19 64.45 -0.39 2.65	1065 n19 64.45 -0.39 2.65
20	0919 e20 74.6 -16.29 12.09	0928 f20 69.04 -24.04 16.08	0937 g20 63.48 -31.79 20.08	0946 h20 57.91 -39.54 24.07	0955 i20 52.35 -47.28 28.06	0964 j20 46.79 -55.03 32.05	1018 k20 69.61 -0.49 3.0	1034 l20 69.61 -0.49 3.0	1050 m20 69.61 -0.49 3.0	1066 n20 69.61 -0.49 3.0
21	0920 e21 70.49 -8.36 7.44	0929 f21 64.93 -16.11 11.43	0938 g21 59.36 -23.86 15.43	0947 h21 53.8 -31.6 19.42	0956 i21 48.24 -39.35 23.42	0965 j21 42.68 -47.09 27.41	1019 k21 74.77 -0.59 3.35	1035 l21 74.77 -0.59 3.35	1051 m21 74.77 -0.59 3.35	1067 n21 74.77 -0.59 3.35
22	0921 e22 66.38 -0.43 2.79	0930 f22 60.82 -8.17 6.79	0939 g22 55.25 -15.92 10.78	0948 h22 49.69 -23.67 14.77	0957 i22 44.12 -31.42 18.77	0966 j22 38.57 -39.16 22.76	1020 k22 79.93 -0.69 3.7	1036 l22 79.93 -0.69 3.7	1052 m22 79.93 -0.69 3.7	1068 n22 79.93 -0.69 3.7
23	0922 e23 60.47 9.09 1.35	0931 f23 56.71 -0.24 2.13	0940 g23 51.14 -7.99 6.13	0949 h23 45.58 -15.74 10.13	0958 i23 40.01 -23.48 14.12	0967 j23 34.45 -31.22 18.11	1021 k23 85.09 -0.79 4.05	1037 l23 85.09 -0.79 4.05	1053 m23 85.09 -0.79 4.05	1069 n23 85.09 -0.79 4.05
24	0923 e24 54.56 18.61 -0.09	0932 f24 50.8 9.27 0.69	0941 g24 47.03 -0.05 1.48	0950 h24 41.47 -7.8 5.48	0959 i24 35.9 -15.55 9.47	0968 j24 30.34 -23.29 13.46	1022 k24 90.25 -0.89 4.4	1038 l24 90.25 -0.89 4.4	1054 m24 90.25 -0.89 4.4	1070 n24 90.25 -0.89 4.4
25	0924 e25 48.65 28.14 -1.53	0933 f25 44.89 18.8 -0.74	0942 g25 41.12 9.46 0.04	0951 h25 37.36 0.12 0.82	0960 i25 31.79 -7.62 4.83	0969 j25 26.23 -15.36 8.82	1023 k25 95.4 -0.98 4.75	1039 l25 95.4 -0.98 4.75	1055 m25 95.4 -0.98 4.75	1071 n25 95.4 -0.98 4.75
26	0925 e26 42.74 37.66 -2.98	0934 f26 38.98 28.32 -2.19	0943 g26 35.21 18.98 -1.39	0952 h26 31.45 9.65 -0.6	0961 i26 27.68 0.31 0.17	0970 j26 22.12 -7.42 4.17	1072 k26 18.02 0.49 -0.47	1074 l26 47.94 65.29 52.06	1076 m26 90.36 -11.15 96.15	1078 n26 50.9 -62.95 36.7
27	0926 e27 36.83 47.17 -4.42	0935 f27 33.07 37.84 -3.63	0944 g27 29.3 28.5 -2.84	0953 h27 25.54 19.16 -2.05	0962 i27 21.77 9.82 -1.26	0971 j27 18.02 0.49 -0.47	1073 k27 95.4 -0.98 4.75	1075 l27 58.61 -30.62 -42.74	1077 m27 25.72 31.44 -44.35	1079 n27 48.13 75.18 -6.79

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 9/4, NLS00

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 18.02 0.49 −0.47	0009 B01 22.12 −7.42 4.17	0018 C01 26.23 −15.36 8.82	0027 D01 30.34 −23.29 13.46	0036 E01 34.45 −31.22 18.11	0045 F01 38.57 −39.16 22.76	0054 G01 42.68 −47.09 27.41	0063 H01 46.79 −55.03 32.05	0072 I01 50.9 −62.95 36.7	0081 J01 21.75 8.59 6.09
02	0001 A02 18.98 4.36 −5.95	0010 B02 23.08 −3.38 −5.75	0019 C02 27.2 −11.32 −1.1	0028 D02 31.31 −19.25 3.54	0037 E02 35.42 −27.18 8.19	0046 F02 39.53 −35.12 12.83	0055 G02 43.64 −43.05 17.48	0064 H02 47.75 −50.99 22.13	0073 I02 51.86 −58.91 26.77	0082 J02 21.77 9.82 −1.26
03	0002 A03 19.94 8.23 −11.43	0011 B03 24.05 0.48 −11.23	0020 C03 28.16 −7.27 −11.03	0029 D03 32.27 −15.21 −6.38	0038 E03 36.38 −23.14 −1.74	0047 F03 40.49 −31.08 2.9	0056 G03 44.61 −39.01 7.55	0065 H03 48.72 −46.94 12.2	0074 I03 52.83 −54.87 16.84	0083 J03 22.74 13.69 −6.74
04	0003 A04 20.9 12.1 −16.92	0012 B04 25.01 4.34 −16.72	0021 C04 29.12 −3.41 −16.52	0030 D04 33.24 −11.17 −16.32	0039 E04 37.35 −19.1 −11.67	0048 F04 41.46 −27.03 −7.02	0057 G04 45.57 −34.97 −2.37	0066 H04 49.68 −42.9 2.26	0075 I04 53.79 −50.83 6.91	0084 J04 23.7 17.56 −12.23
05	0004 A05 21.87 15.97 −22.41	0013 B05 25.98 8.21 −22.2	0022 C05 30.09 0.45 −22.0	0031 D05 34.2 −7.3 −21.8	0040 E05 38.31 −15.06 −21.6	0049 F05 42.42 −22.99 −16.95	0058 G05 46.54 −30.92 −12.31	0067 H05 50.65 −38.86 −7.66	0076 I05 54.76 −46.79 −3.01	0085 J05 24.67 21.43 −17.71
06	0005 A06 22.83 19.84 −27.89	0014 B06 26.94 12.08 −27.69	0023 C06 31.05 4.32 −27.49	0032 D06 35.16 −3.43 −27.29	0041 E06 39.28 −11.19 −27.09	0050 F06 43.39 −18.95 −26.89	0059 G06 47.5 −26.88 −22.24	0068 H06 51.61 −34.82 −17.59	0077 I06 55.72 −42.74 −12.95	0086 J06 25.63 25.3 −23.2
07	0006 A07 23.79 23.7 −33.38	0015 B07 27.9 15.95 −33.18	0024 C07 32.02 8.19 −32.98	0033 D07 36.13 0.43 −32.77	0042 E07 40.24 −7.32 −32.57	0051 F07 44.35 −15.08 −32.37	0060 G07 48.47 −22.84 −32.17	0069 H07 52.58 −30.77 −27.52	0078 I07 56.69 −38.7 −22.88	0087 J07 26.59 29.17 −28.69
08	0007 A08 24.76 27.57 −38.86	0016 B08 28.87 19.82 −38.66	0025 C08 32.98 12.06 −38.46	0034 D08 37.09 4.3 −38.26	0043 E08 41.2 −3.45 −38.06	0052 F08 45.32 −11.21 −37.86	0061 G08 49.43 −18.97 −37.66	0070 H08 53.54 −26.73 −37.46	0079 I08 57.65 −34.66 −32.81	0088 J08 27.56 33.04 −34.17
09	0008 A09 25.72 31.44 −44.35	0017 B09 29.83 23.68 −44.14	0026 C09 33.94 15.92 −43.94	0035 D09 38.06 8.16 −43.74	0044 E09 42.17 0.4 −43.54	0053 F09 46.28 −7.35 −43.34	0062 G09 50.39 −15.11 −43.14	0071 H09 54.51 −22.87 −42.94	0080 I09 58.61 −30.62 −42.74	0089 J09 28.52 36.9 −39.65
10	0243 A10 29.23 24.79 19.22	0252 B10 34.53 15.24 24.73	0261 C10 39.84 5.68 30.24	0270 D10 45.14 −3.87 35.76	0279 E10 49.25 −11.8 40.4	0288 F10 53.36 −19.73 45.05	0297 G10 57.47 −27.67 49.7	0306 H10 61.59 −35.6 54.35	0315 I10 65.69 −43.53 58.99	0324 J10 32.97 32.89 25.79
11	0244 A11 29.26 26.03 11.87	0253 B11 35.16 16.51 13.31	0262 C11 40.47 6.95 18.83	0271 D11 45.77 −2.6 24.34	0280 E11 49.88 −10.53 28.99	0289 F11 53.99 −18.46 33.63	0298 G11 58.1 −26.4 38.28	0307 H11 62.22 −34.33 42.93	0316 I11 66.32 −42.26 47.57	0325 J11 33.0 34.13 18.44
12	0245 A12 29.28 27.26 4.51	0254 B12 35.19 17.75 5.95	0263 C12 41.1 8.22 7.4	0272 D12 46.4 −1.32 12.91	0281 E12 50.51 −9.26 17.56	0290 F12 54.62 −17.19 22.21	0299 G12 58.73 −25.13 26.85	0308 H12 62.85 −33.06 31.5	0317 I12 66.95 −40.99 36.15	0326 J12 33.02 35.36 11.08
13	0246 A13 29.3 28.5 −2.84	0255 B13 35.21 18.98 −1.39	0264 C13 41.12 9.46 0.04	0273 D13 47.03 −0.05 1.48	0282 E13 51.14 −7.99 6.13	0291 F13 55.25 −15.92 10.78	0300 G13 59.36 −23.86 15.43	0309 H13 63.48 −31.79 20.08	0318 I13 67.58 −39.72 24.72	0327 J13 33.05 36.6 3.72
14	0247 A14 30.27 32.37 −8.32	0256 B14 36.17 22.85 −6.88	0265 C14 42.08 13.33 −5.44	0274 D14 47.99 3.81 −3.99	0283 E14 52.11 −3.94 −3.79	0292 F14 56.22 −11.88 0.85	0301 G14 60.33 −19.81 5.5	0310 H14 64.44 −27.75 10.14	0319 I14 68.55 −35.67 14.79	0328 J14 33.07 37.84 −3.63
15	0248 A15 31.23 36.24 −13.81	0257 B15 37.14 26.72 −12.37	0266 C15 43.05 17.2 −10.92	0275 D15 48.96 7.67 −9.48	0284 E15 53.07 −0.08 −9.28	0293 F15 57.18 −7.84 −9.07	0302 G15 61.29 −15.77 −4.43	0311 H15 65.41 −23.7 0.21	0320 I15 69.51 −31.63 4.86	0329 J15 34.03 41.71 −9.12
16	0249 A16 32.2 40.11 −19.3	0258 B16 38.1 30.59 −17.85	0267 C16 44.01 21.07 −16.41	0276 D16 49.92 11.54 −14.96	0285 E16 54.03 3.78 −14.76	0294 F16 58.15 −3.97 −14.56	0303 G16 62.26 −11.73 −14.36	0312 H16 66.37 −19.66 −9.71	0321 I16 70.48 −27.59 −5.07	0330 J16 35.0 45.57 −14.6
17	0250 A17 33.16 43.97 −24.78	0259 B17 39.07 34.46 −23.34	0268 C17 44.98 24.94 −21.89	0277 D17 50.89 15.41 −20.45	0286 E17 55.0 7.65 −20.25	0295 F17 59.11 −0.1 −20.05	0304 G17 63.22 −7.86 −19.85	0313 H17 67.34 −15.62 −19.64	0322 I17 71.44 −23.55 −15.0	0331 J17 35.96 49.44 −20.09
18	0251 A18 34.12 47.84 −30.26	0260 B18 40.03 38.32 −28.82	0269 C18 45.94 28.8 −27.38	0278 D18 51.85 19.28 −25.93	0287 E18 55.96 11.52 −25.73	0296 F18 60.07 3.76 −25.53	0305 G18 64.19 −3.99 −25.33	0314 H18 68.3 −11.75 −25.13	0323 I18 72.41 −19.51 −24.92	0332 J18 36.92 53.31 −25.57
19	0486 A19 40.46 49.1 38.93	0495 B19 45.76 39.54 44.43	0504 C19 51.06 29.99 49.95	0513 D19 56.36 20.43 55.46	0522 E19 61.67 10.87 60.97	0531 F19 66.97 1.31 66.48	0540 G19 72.28 −8.24 72.0	0549 H19 76.39 −16.17 76.64	0558 I19 80.49 −24.1 81.29	0567 J19 44.2 57.2 45.49
20	0487 A20 40.48 50.33 31.57	0496 B20 46.39 40.82 33.02	0505 C20 51.69 31.26 38.53	0514 D20 56.99 21.7 44.04	0523 E20 62.3 12.14 49.55	0532 F20 67.6 2.58 55.07	0541 G20 72.9 −6.97 60.58	0550 H20 77.02 −14.9 65.23	0559 I20 81.12 −22.83 69.87	0568 J20 44.22 58.43 38.14
21	0488 A21 40.5 51.57 24.21	0497 B21 46.41 42.05 25.66	0506 C21 52.32 32.53 27.1	0515 D21 57.62 22.97 32.61	0524 E21 62.93 13.41 38.13	0533 F21 68.23 3.85 43.64	0542 G21 73.54 −5.7 49.15	0551 H21 77.65 −13.63 53.8	0560 I21 81.75 −21.56 58.44	0569 J21 44.25 59.67 30.78
22	0489 A22 40.53 52.8 16.85	0498 B22 46.43 43.29 18.3	0507 C22 52.34 33.76 19.74	0516 D22 58.25 24.24 21.19	0525 E22 63.56 14.68 26.7	0534 F22 68.86 5.12 32.21	0543 G22 74.17 −4.43 37.73	0552 H22 78.28 −12.36 42.37	0561 I22 82.38 −20.29 47.02	0570 J22 44.27 60.9 23.42
23	0490 A23 40.55 54.04 9.5	0499 B23 46.46 44.52 10.94	0508 C23 52.37 35.0 12.38	0517 D23 58.28 25.48 13.83	0526 E23 64.19 15.95 15.27	0535 F23 69.49 6.39 20.79	0544 G23 74.8 −3.15 26.3	0553 H23 78.91 −11.09 30.95	0562 I23 83.01 −19.02 35.59	0571 J23 44.29 62.14 16.06
24	0491 A24 40.58 55.28 2.14	0500 B24 46.48 45.76 3.58	0509 C24 52.39 36.24 5.03	0518 D24 58.3 26.71 6.47	0527 E24 64.21 17.19 7.92	0536 F24 70.12 7.67 9.36	0545 G24 75.43 −1.88 14.87	0554 H24 79.54 −9.82 19.52	0563 I24 83.64 −17.74 24.17	0572 J24 44.32 63.38 8.7
25	0492 A25 40.6 56.51 −5.21	0501 B25 46.51 47.0 −3.77	0510 C25 52.42 37.47 −2.32	0519 D25 58.33 27.95 −0.88	0528 E25 64.24 18.43 0.56	0537 F25 70.15 8.9 2.0	0546 G25 76.06 −0.61 3.44	0555 H25 80.17 −8.55 8.09	0564 I25 84.27 −16.47 12.74	0573 J25 44.34 64.61 1.35
26	0493 A26 41.56 60.38 −10.7	0502 B26 47.47 50.86 −9.25	0511 C26 53.38 41.34 −7.81	0520 D26 59.29 31.82 −6.36	0529 E26 65.2 22.29 −4.92	0538 F26 71.11 12.77 −3.47	0547 G26 77.02 3.25 −2.03	0556 H26 81.13 −4.5 −1.83	0565 I26 85.24 −12.43 2.81	0574 J26 44.36 65.85 −6.0
27	0494 A27 42.53 64.25 −16.18	0503 B27 48.43 54.73 −14.74	0512 C27 54.34 45.21 −13.29	0521 D27 60.25 35.68 −11.85	0530 E27 66.16 26.16 −10.4	0539 F27 72.07 16.64 −8.96	0548 G27 77.98 7.11 −7.51	0557 H27 82.09 −0.64 −7.31	0566 I27 86.2 −8.39 −7.11	0575 J27 45.33 69.72 −11.48

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 27.05 −0.95 11.6	0099 L01 31.16 −8.89 16.24	0108 M01 35.27 −16.82 20.89	0117 N01 39.38 −24.75 25.54	0126 O01 43.5 −32.69 30.19	0135 P01 47.61 −40.62 34.83	0144 Q01 51.72 −48.55 39.48	0153 R01 55.83 −56.48 44.12	0162 S01 25.49 16.69 12.66	0171 T01 30.79 7.14 18.16
02	0091 K02 27.68 0.31 0.17	0100 L02 31.79 −7.62 4.83	0109 M02 35.9 −15.55 9.47	0118 N02 40.01 −23.48 14.12	0127 O02 44.12 −31.42 18.77	0136 P02 48.24 −39.35 23.42	0145 Q02 52.35 −47.28 28.06	0154 R02 56.46 −55.21 32.71	0163 S02 25.52 17.93 5.3	0172 T02 31.42 8.41 6.75
03	0092 K03 28.64 4.18 −5.3	0101 L03 32.76 −3.57 −5.1	0110 M03 36.87 −11.51 −0.45	0119 N03 40.98 −19.44 4.19	0128 O03 45.09 −27.37 8.84	0137 P03 49.2 −35.31 13.48	0146 Q03 53.31 −43.24 18.13	0155 R03 57.42 −51.17 22.78	0164 S03 25.54 19.16 −2.05	0173 T03 31.45 9.65 −0.6
04	0093 K04 29.61 8.05 −10.78	0102 L04 33.72 0.29 −10.58	0111 M04 37.83 −7.46 −10.38	0120 N04 41.94 −15.4 −5.73	0129 O04 46.06 −23.33 −1.09	0138 P04 50.17 −31.26 3.55	0147 Q04 54.28 −39.2 8.2	0156 R04 58.39 −47.13 12.84	0165 S04 26.5 23.03 −7.53	0174 T04 32.41 13.52 −6.09
05	0094 K05 30.57 11.92 −16.27	0103 L05 34.68 4.16 −16.07	0112 M05 38.8 −3.59 −15.87	0121 N05 42.91 −11.36 −15.67	0130 O05 47.02 −19.29 −11.02	0139 P05 51.13 −27.22 −6.37	0148 Q05 55.24 −35.16 −1.72	0157 R05 59.35 −43.08 2.91	0166 S05 27.47 26.9 −13.02	0175 T05 33.37 17.38 −11.58
06	0095 K06 31.54 15.78 −21.76	0104 L06 35.65 8.02 −21.56	0113 M06 39.76 0.26 −21.35	0122 N06 43.87 −7.49 −21.15	0131 O06 47.99 −15.25 −20.95	0140 P06 52.1 −23.18 −16.3	0149 Q06 56.21 −31.11 −11.66	0158 R06 60.32 −39.04 −7.01	0167 S06 28.43 30.77 −18.51	0176 T06 34.34 21.25 −17.06
07	0096 K07 32.5 19.65 −27.24	0105 L07 36.61 11.89 −27.04	0114 M07 40.72 4.13 −26.84	0123 N07 44.84 −3.62 −26.64	0132 O07 48.95 −11.38 −26.44	0141 P07 53.06 −19.14 −26.24	0150 Q07 57.17 −27.07 −21.59	0159 R07 61.28 −35.0 −16.94	0168 S07 29.39 34.64 −23.99	0177 T07 35.3 25.12 −22.55
08	0097 K08 33.46 23.52 −32.73	0106 L08 37.58 15.76 −32.53	0115 M08 41.69 8.0 −32.33	0124 N08 45.8 0.24 −32.13	0133 O08 49.91 −7.51 −31.92	0142 P08 54.03 −15.27 −31.72	0151 Q08 58.14 −23.03 −31.52	0160 R08 62.25 −30.96 −26.88	0169 S08 30.36 38.51 −29.48	0178 T08 36.26 28.99 −28.03
09	0098 K09 34.43 27.39 −38.21	0107 L09 38.54 19.63 −38.01	0116 M09 42.65 11.87 −37.81	0125 N09 46.76 4.11 −37.61	0134 O09 50.88 −3.64 −37.41	0143 P09 54.99 −11.4 −37.2	0152 Q09 59.1 −19.16 −37.0	0161 R09 63.21 −26.92 −36.8	0170 S09 31.32 42.37 −34.96	0179 T09 37.23 32.86 −33.52
10	0333 K10 38.27 23.34 31.3	0342 L10 43.58 13.78 36.81	0351 M10 48.88 4.22 42.32	0360 N10 54.19 −5.32 47.84	0369 O10 58.3 −13.26 52.48	0378 P10 62.41 −21.19 57.13	0387 Q10 66.52 −29.13 61.78	0396 R10 70.63 −37.05 66.42	0405 S10 36.72 40.99 32.36	0414 T10 42.02 31.44 37.87
11	0334 K11 38.9 24.61 19.88	0343 L11 44.21 15.05 25.39	0352 M11 49.51 5.5 30.91	0361 N11 54.82 −4.05 36.42	0370 O11 58.93 −11.99 41.07	0379 P11 63.04 −19.92 45.71	0388 Q11 67.15 −27.86 50.36	0397 R11 71.26 −35.78 55.01	0406 S11 36.74 42.23 25.0	0415 T11 42.65 32.71 26.45
12	0335 K12 38.93 25.85 12.52	0344 L12 44.84 16.33 13.97	0353 M12 50.14 6.77 19.48	0362 N12 55.45 −2.78 24.99	0371 O12 59.56 −10.72 29.64	0380 P12 63.67 −18.65 34.29	0389 Q12 67.78 −26.58 38.93	0398 R12 71.89 −34.51 43.58	0407 S12 36.76 43.47 17.65	0416 T12 42.67 33.95 19.09
13	0336 K13 38.95 27.08 5.16	0345 L13 44.86 17.56 6.61	0354 M13 50.77 8.04 8.05	0363 N13 56.08 −1.51 13.57	0372 O13 60.19 −9.45 18.21	0381 P13 64.3 −17.38 22.86	0390 Q13 68.41 −25.31 27.51	0399 R13 72.52 −33.24 32.15	0408 S13 36.79 44.7 10.29	0417 T13 42.69 35.19 11.73
14	0337 K14 38.98 28.32 −2.19	0346 L14 44.89 18.8 −0.74	0355 M14 50.8 9.27 0.69	0364 N14 56.71 −0.24 2.13	0373 O14 60.82 −8.17 6.79	0382 P14 64.93 −16.11 11.43	0391 Q14 69.04 −24.04 16.08	0400 R14 73.15 −31.97 20.73	0409 S14 36.81 45.94 2.93	0418 T14 42.72 36.42 4.37
15	0338 K15 39.94 32.19 −7.67	0347 L15 45.85 22.67 −6.23	0356 M15 51.76 13.14 −4.78	0365 N15 57.67 3.62 −3.34	0374 O15 61.78 −4.13 −3.14	0383 P15 65.89 −12.07 1.5	0392 Q15 70.0 −20.0 6.15	0401 R15 74.11 −27.93 10.79	0410 S15 36.83 47.17 −4.42	0419 T15 42.74 37.66 −2.98
16	0339 K16 40.9 36.06 −13.16	0348 L16 46.81 26.54 −11.71	0357 M16 52.72 17.01 −10.27	0366 N16 58.63 7.49 −8.82	0375 O16 62.75 −0.26 −8.62	0384 P16 66.86 −8.02 −8.42	0393 Q16 70.97 −15.96 −3.77	0402 R16 75.08 −23.88 0.86	0411 S16 37.8 51.04 −9.91	0420 T16 43.7 41.53 −8.46
17	0340 K17 41.87 39.93 −18.64	0349 L17 47.78 30.4 −17.2	0358 M17 53.69 20.88 −15.75	0367 N17 59.6 11.36 −14.31	0376 O17 63.71 3.6 −14.11	0385 P17 67.82 −4.15 −13.91	0394 Q17 71.93 −11.91 −13.71	0403 R17 76.04 −19.84 −9.06	0412 S17 38.76 54.91 −15.39	0421 T17 44.67 45.4 −13.95
18	0341 K18 42.83 43.79 −24.13	0350 L18 48.74 34.27 −22.68	0359 M18 54.65 24.75 −21.24	0368 N18 60.56 15.22 −19.79	0377 O18 64.67 7.46 −19.59	0386 P18 68.78 −0.29 −19.39	0395 Q18 72.9 −8.05 −19.19	0404 R18 77.01 −15.8 −18.99	0413 S18 39.73 58.78 −20.87	0422 T18 45.63 49.26 −19.43
19	0576 K19 49.5 47.65 51.0	0585 L19 54.8 38.09 56.51	0594 M19 60.11 28.53 62.03	0603 N19 65.41 18.97 67.54	0612 O19 70.71 9.41 73.05	0621 P19 76.02 −0.14 78.56	0630 Q19 81.32 −9.7 84.08	0639 R19 85.43 −17.62 88.72	0648 S19 47.94 65.29 52.06	0657 T19 53.24 55.74 57.56
20	0577 K20 50.13 48.92 39.58	0586 L20 55.43 39.36 45.1	0595 M20 60.74 29.8 50.61	0604 N20 66.04 20.24 56.12	0613 O20 71.34 10.68 61.63	0622 P20 76.65 1.12 67.15	0631 Q20 81.95 −8.43 72.66	0640 R20 86.06 −16.35 77.3	0649 S20 47.96 66.53 44.7	0658 T20 53.87 57.01 46.15
21	0578 K21 50.15 50.15 32.23	0587 L21 56.06 40.63 33.67	0596 M21 61.37 31.07 39.18	0605 N21 66.67 21.51 44.69	0614 O21 71.97 11.95 50.21	0623 P21 77.28 2.39 55.72	0632 Q21 82.58 −7.15 61.23	0641 R21 86.69 −15.08 65.88	0650 S21 47.98 67.76 37.34	0659 T21 53.89 58.25 38.79
22	0579 K22 50.18 51.39 24.87	0588 L22 56.08 41.87 26.31	0597 M22 62.0 32.34 27.76	0606 N22 67.3 22.78 33.27	0615 O22 72.6 13.22 38.78	0624 P22 77.91 3.67 44.29	0633 Q22 83.21 −5.88 49.81	0642 R22 87.32 −13.81 54.45	0651 S22 48.01 69.0 29.98	0660 T22 53.91 59.48 31.43
23	0580 K23 50.2 52.62 17.51	0589 L23 56.11 43.1 18.95	0598 M23 62.02 33.58 20.4	0607 N23 67.93 24.05 21.84	0616 O23 73.23 14.5 27.35	0625 P23 78.54 4.94 32.87	0634 Q23 83.84 −4.61 38.38	0643 R23 87.95 −12.54 43.02	0652 S23 48.03 70.24 22.63	0661 T23 53.94 60.72 24.07
24	0581 K24 50.22 53.86 10.15	0590 L24 56.13 44.34 11.59	0599 M24 62.04 34.81 13.04	0608 N24 67.95 25.29 14.48	0617 O24 73.86 15.77 15.93	0626 P24 79.17 6.21 21.44	0635 Q24 84.47 −3.34 26.95	0644 R24 88.58 −11.27 31.6	0653 S24 48.06 71.47 15.27	0662 T24 53.96 61.96 16.71
25	0582 K25 50.25 55.1 2.79	0591 L25 56.16 45.57 4.23	0600 M25 62.07 36.05 5.68	0609 N25 67.98 26.53 7.12	0618 O25 73.89 17.0 8.57	0627 P25 79.8 7.48 10.01	0636 Q25 85.1 −2.07 15.53	0645 R25 89.21 −10.0 20.17	0654 S25 48.08 72.71 7.91	0663 T25 53.98 63.19 9.35
26	0583 K26 50.27 56.33 −4.56	0592 L26 56.18 46.81 −3.11	0601 M26 62.09 37.29 −1.67	0610 N26 68.0 27.76 −0.22	0619 O26 73.91 18.24 1.21	0628 P26 79.82 8.72 2.66	0637 Q26 85.73 −0.8 4.09	0646 R26 89.84 −8.73 8.75	0655 S26 48.1 73.94 0.55	0664 T26 54.01 64.43 1.99
27	0584 K27 51.23 60.2 −10.04	0593 L27 57.14 50.68 −8.6	0602 M27 63.05 41.15 −7.15	0611 N27 68.96 31.63 −5.71	0620 O27 74.87 22.1 −4.26	0629 P27 80.78 12.58 −2.82	0638 Q27 86.69 3.06 −1.37	0647 R27 90.8 −4.69 −1.17	0656 S27 48.13 75.18 −6.79	0665 T27 54.03 65.66 −5.35

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 36.1 −2.41 23.68	0189 V01 40.21 −10.34 28.32	0198 W01 44.32 −18.28 32.97	0207 X01 48.43 −26.21 37.62	0216 Y01 52.54 −34.14 42.27	0225 Z01 56.65 −42.08 46.91	0234 a01 60.76 −50.01 51.56	0729 b01 95.4 −0.98 4.75	0738 c01 89.47 7.29 10.66	0747 d01 83.53 15.57 16.58
02	0181 U02 36.73 −1.14 12.26	0190 V02 40.84 −9.07 16.91	0199 W02 44.95 −17.01 21.55	0208 X02 49.06 −24.94 26.2	0217 Y02 53.17 −32.87 30.85	0226 Z02 57.28 −40.81 35.5	0235 a02 61.39 −48.73 40.14	0730 b02 90.8 −4.69 −1.17	0739 c02 85.73 −0.8 4.09	0748 d02 79.8 7.48 10.01
03	0182 U03 37.36 0.12 0.82	0191 V03 41.47 −7.8 5.48	0200 W03 45.58 −15.74 10.13	0209 X03 49.69 −23.67 14.77	0218 Y03 53.8 −31.6 19.42	0227 Z03 57.91 −39.54 24.07	0236 a03 62.02 −47.46 28.71	0731 b03 86.2 −8.39 −7.11	0740 c03 81.13 −4.5 −1.83	0749 d03 76.06 −0.61 3.44
04	0183 U04 38.32 3.99 −4.64	0192 V04 42.43 −3.76 −4.44	0201 W04 46.54 −11.69 0.19	0210 X04 50.65 −19.63 4.84	0219 Y04 54.77 −27.56 9.49	0228 Z04 58.88 −35.49 14.14	0237 a04 62.98 −43.42 18.78	0732 b04 81.6 −12.1 −13.05	0741 c04 76.53 −8.21 −7.77	0750 d04 71.46 −4.32 −2.48
05	0184 U05 39.28 7.86 −10.13	0193 V05 43.4 0.1 −9.93	0202 W05 47.51 −7.65 −9.73	0211 X05 51.62 −15.58 −5.08	0220 Y05 55.73 −23.52 −0.43	0229 Z05 59.84 −31.45 4.2	0238 a05 63.95 −39.38 8.85	0733 b05 77.01 −15.8 −18.99	0742 c05 71.93 −11.91 −13.71	0751 d05 66.86 −8.02 −8.42
06	0185 U06 40.25 11.73 −15.62	0194 V06 44.36 3.97 −15.42	0203 W06 48.47 −3.78 −15.21	0212 X06 52.58 −11.54 −15.01	0221 Y06 56.7 −19.48 −10.37	0230 Z06 60.81 −27.41 −5.72	0239 a06 64.91 −35.34 −1.07	0734 b06 72.41 −19.51 −24.92	0743 c06 67.34 −15.62 −19.64	0752 d06 62.26 −11.73 −14.36
07	0186 U07 41.21 15.6 −21.1	0195 V07 45.32 7.84 −20.9	0204 W07 49.44 0.08 −20.7	0213 X07 53.55 −7.67 −20.5	0222 Y07 57.66 −15.43 −20.3	0231 Z07 61.77 −23.37 −15.65	0240 a07 65.88 −31.29 −11.01	0735 b07 67.81 −23.21 −30.86	0744 c07 62.74 −19.32 −25.58	0753 d07 57.66 −15.43 −20.3
08	0187 U08 42.17 19.47 −26.59	0196 V08 46.29 11.71 −26.39	0205 W08 50.4 3.95 −26.19	0214 X08 54.51 −3.8 −25.99	0223 Y08 58.62 −11.56 −25.78	0232 Z08 62.74 −19.32 −25.58	0241 a08 66.84 −27.25 −20.94	0736 b08 63.21 −26.92 −36.8	0745 c08 58.14 −23.03 −31.52	0754 d08 53.06 −19.14 −26.24
09	0188 U09 43.14 23.33 −32.07	0197 V09 47.25 15.57 −31.87	0206 W09 51.36 7.81 −31.67	0215 X09 55.47 0.05 −31.47	0224 Y09 59.59 −7.7 −31.27	0233 Z09 63.7 −15.46 −31.06	0242 a09 67.81 −23.21 −30.86	0737 b09 58.61 −30.62 −42.74	0746 c09 53.54 −26.73 −37.46	0755 d09 48.47 −22.84 −32.17
10	0423 U10 47.32 21.88 43.38	0432 V10 52.62 12.33 48.89	0441 W10 57.93 2.77 54.4	0450 X10 63.23 −6.78 59.92	0459 Y10 67.34 −14.72 64.56	0468 Z10 71.45 −22.65 69.21	0477 a10 75.56 −30.58 73.85	0810 b10 95.4 −0.98 4.75	0819 c10 94.77 −2.26 16.17	0828 d10 94.14 −3.53 27.6
11	0424 U11 47.95 23.16 31.96	0433 V11 53.25 13.6 37.47	0442 W11 58.56 4.04 42.99	0451 X11 63.86 −5.51 48.5	0460 Y11 67.97 −13.44 53.15	0469 Z11 72.08 −21.38 57.79	0478 a11 76.19 −29.31 62.44	0811 b11 86.69 3.06 −1.37	0820 c11 85.73 −0.8 4.09	0829 d11 85.1 −2.07 15.53
12	0425 U12 48.58 24.43 20.53	0434 V12 53.88 14.87 26.05	0443 W12 59.19 5.31 31.56	0452 X12 64.49 −4.24 37.07	0461 Y12 68.6 −12.17 41.72	0470 Z12 72.71 −20.11 46.37	0479 a12 76.82 −28.03 51.01	0812 b12 77.98 7.11 −7.51	0821 c12 77.02 3.25 −2.03	0830 d12 76.06 −0.61 3.44
13	0426 U13 48.6 25.66 13.18	0435 V13 54.51 16.14 14.62	0444 W13 59.82 6.58 20.13	0453 X13 65.12 −2.97 25.65	0462 Y13 69.23 −10.9 30.29	0471 Z13 73.34 −18.84 34.94	0480 a13 77.45 −26.76 39.59	0813 b13 69.27 11.17 −13.65	0822 c13 68.31 7.3 −8.17	0831 d13 67.34 3.43 −2.68
14	0427 U14 48.63 26.9 5.82	0436 V14 54.54 17.37 7.26	0445 W14 60.45 7.85 8.71	0454 X14 65.75 −1.7 14.22	0463 Y14 69.86 −9.63 18.87	0472 Z14 73.97 −17.57 23.51	0481 a14 78.08 −25.49 28.16	0814 b14 60.56 15.22 −19.79	0823 c14 59.6 11.36 −14.31	0832 d14 58.63 7.49 −8.82
15	0428 U15 48.65 28.14 −1.53	0437 V15 54.56 18.61 −0.09	0446 W15 60.47 9.09 1.35	0455 X15 66.38 −0.43 2.79	0464 Y15 70.49 −8.36 7.44	0473 Z15 74.6 −16.29 12.09	0482 a15 78.71 −24.22 16.73	0815 b15 51.85 19.28 −25.93	0824 c15 50.89 15.41 −20.45	0833 d15 49.92 11.54 −14.96
16	0429 U16 49.61 32.0 −7.02	0438 V16 55.52 22.48 −5.57	0447 W16 61.43 12.96 −4.13	0456 X16 67.34 3.43 −2.68	0465 Y16 71.46 −4.32 −2.48	0474 Z16 75.57 −12.25 2.16	0483 a16 79.68 −20.18 6.8	0816 b16 43.14 23.33 −32.07	0825 c16 42.17 19.47 −26.59	0834 d16 41.21 15.6 −21.1
17	0430 U17 50.58 35.87 −12.5	0439 V17 56.49 26.35 −11.06	0448 W17 62.4 16.83 −9.61	0457 X17 68.31 7.3 −8.17	0466 Y17 72.42 −0.45 −7.97	0475 Z17 76.53 −8.21 −7.77	0484 a17 80.64 −16.14 −3.12	0817 b17 34.43 27.39 −38.21	0826 c17 33.46 23.52 −32.73	0835 d17 32.5 19.65 −27.24
18	0431 U18 51.54 39.74 −17.99	0440 V18 57.45 30.21 −16.54	0449 W18 63.36 20.69 −15.1	0458 X18 69.27 11.17 −13.65	0467 Y18 73.38 3.41 −13.45	0476 Z18 77.5 −4.34 −13.25	0485 a18 81.6 −12.1 −13.05	0818 b18 25.72 31.44 −44.35	0827 c18 24.76 27.57 −38.86	0836 d18 23.79 23.7 −33.38
19	0666 U19 58.54 46.18 63.08	0675 V19 63.84 36.62 68.59	0684 W19 69.15 27.06 74.1	0693 X19 74.45 17.51 79.61	0702 Y19 79.76 7.95 85.13	0711 Z19 85.06 −1.6 90.64	0720 a19 90.36 −11.15 96.15	0891 b19 95.4 −0.98 4.75	0900 c19 89.84 −8.73 8.75	0909 d19 84.27 −16.47 12.74
20	0667 U20 59.17 47.45 51.66	0676 V20 64.47 37.89 57.17	0685 W20 69.78 28.33 62.68	0694 X20 75.08 18.78 68.2	0703 Y20 80.38 9.22 73.71	0712 Z20 85.69 −0.33 79.22	0721 a20 90.99 −9.88 84.73	0892 b20 89.49 8.52 3.31	0901 c20 85.73 −0.8 4.09	0910 d20 80.17 −8.55 8.09
21	0668 U21 59.8 48.72 40.23	0677 V21 65.1 39.16 45.74	0686 W21 70.41 29.61 51.26	0695 X21 75.71 20.05 56.77	0704 Y21 81.01 10.49 62.28	0713 Z21 86.32 0.93 67.79	0722 a21 91.62 −8.61 73.3	0893 b21 83.58 18.05 1.87	0902 c21 79.82 8.72 2.66	0911 d21 76.06 −0.61 3.44
22	0669 U22 59.82 49.96 32.87	0678 V22 65.73 40.44 34.32	0687 W22 71.04 30.88 39.83	0696 X22 76.34 21.32 45.34	0705 Y22 81.64 11.76 50.86	0714 Z22 86.95 2.2 56.37	0723 a22 92.25 −7.34 61.88	0894 b22 77.67 27.57 0.42	0903 c22 73.91 18.24 1.21	0912 d22 70.15 8.9 2.0
23	0670 U23 59.85 51.2 25.51	0679 V23 65.76 41.67 26.96	0688 W23 71.67 32.15 28.4	0697 X23 76.97 22.59 33.92	0706 Y23 82.27 13.03 39.43	0715 Z23 87.58 3.47 44.94	0724 a23 92.88 −6.07 50.45	0895 b23 71.76 37.09 −1.01	0904 c23 68.0 27.76 −0.22	0913 d23 64.24 18.43 0.56
24	0671 U24 59.87 52.43 18.16	0680 V24 65.78 42.91 19.6	0689 W24 71.69 33.38 21.05	0698 X24 77.6 23.86 22.49	0707 Y24 82.9 14.3 28.0	0716 Z24 88.21 4.74 33.52	0725 a24 93.51 −4.8 39.02	0896 b24 65.85 46.62 −2.46	0905 c24 62.09 37.29 −1.67	0914 d24 58.33 27.95 −0.88
25	0672 U25 59.89 53.67 10.8	0681 V25 65.8 44.14 12.24	0690 W25 71.71 34.62 13.69	0699 X25 77.62 25.1 15.13	0708 Y25 83.53 15.57 16.58	0717 Z25 88.84 6.01 22.09	0726 a25 94.14 −3.53 27.6	0897 b25 59.94 56.14 −3.9	0906 c25 56.18 46.81 −3.11	0915 d25 52.42 37.47 −2.32
26	0673 U26 59.92 54.9 3.44	0682 V26 65.83 45.38 4.88	0691 W26 71.74 35.86 6.33	0700 X26 77.65 26.33 7.77	0709 Y26 83.56 16.81 9.22	0718 Z26 89.47 7.29 10.66	0727 a26 94.77 −2.26 16.17	0898 b26 54.03 65.66 −5.35	0907 c26 50.27 56.33 −4.56	0916 d26 46.51 47.0 −3.77
27	0674 U27 59.94 56.14 −3.9	0683 V27 65.85 46.62 −2.46	0692 W27 71.76 37.09 −1.01	0701 X27 77.67 27.57 0.42	0710 Y27 83.58 18.05 1.87	0719 Z27 89.49 8.52 3.31	0728 a27 95.4 −0.98 4.75	0899 b27 48.13 75.18 −6.79	0908 c27 44.36 65.85 −6.0	0917 d27 40.6 56.51 −5.21

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 77.6 23.86 22.49	0765 f01 71.67 32.15 28.4	0774 g01 65.73 40.44 34.32	0783 h01 59.8 48.72 40.23	0792 i01 53.87 57.01 46.15	0801 j01 47.94 65.29 52.06	0972 k01 18.02 0.49 −0.47	0981 l01 18.02 0.49 −0.47	0990 m01 18.02 0.49 −0.47	0999 n01 18.02 0.49 −0.47
02	0757 e02 73.86 15.77 15.93	0766 f02 67.93 24.05 21.84	0775 g02 62.0 32.34 27.76	0784 h02 56.06 40.63 33.67	0793 i02 50.13 48.92 39.58	0802 j02 44.2 57.2 45.49	0973 k02 27.68 0.31 0.17	0982 l02 27.68 0.31 0.17	0991 m02 27.68 0.31 0.17	1000 n02 27.68 0.31 0.17
03	0758 e03 70.12 7.67 9.36	0767 f03 64.19 15.95 15.27	0776 g03 58.25 24.24 21.19	0785 h03 52.32 32.53 27.1	0794 i03 46.39 40.82 33.02	0803 j03 40.46 49.1 38.93	0974 k03 37.36 0.12 0.82	0983 l03 37.36 0.12 0.82	0992 m03 37.36 0.12 0.82	1001 n03 37.36 0.12 0.82
04	0759 e04 66.38 −0.43 2.79	0768 f04 60.45 7.85 8.71	0777 g04 54.51 16.14 14.62	0786 h04 48.58 24.43 20.53	0795 i04 42.65 32.71 26.45	0804 j04 36.72 40.99 32.36	0975 k04 47.03 −0.05 1.48	0984 l04 47.03 −0.05 1.48	0993 m04 47.03 −0.05 1.48	1002 n04 47.03 −0.05 1.48
05	0760 e05 61.78 −4.13 −3.14	0769 f05 56.71 −0.24 2.13	0778 g05 50.77 8.04 8.05	0787 h05 44.84 16.33 13.97	0796 i05 38.9 24.61 19.88	0805 j05 32.97 32.89 25.79	0976 k05 56.71 −0.24 2.13	0985 l05 56.71 −0.24 2.13	0994 m05 56.71 −0.24 2.13	1003 n05 56.71 −0.24 2.13
06	0761 e06 57.18 −7.84 −9.07	0770 f06 52.11 −3.94 −3.79	0779 g06 47.03 −0.05 1.48	0788 h06 41.1 8.22 7.4	0797 i06 35.16 16.51 13.31	0806 j06 29.23 24.79 19.22	0977 k06 66.38 −0.43 2.79	0986 l06 66.38 −0.43 2.79	0995 m06 66.38 −0.43 2.79	1004 n06 66.38 −0.43 2.79
07	0762 e07 52.58 −11.54 −15.01	0771 f07 47.51 −7.65 −9.73	0780 g07 42.43 −3.76 −4.44	0789 h07 37.36 0.12 0.82	0798 i07 31.42 8.41 6.75	0807 j07 25.49 16.69 12.66	0978 k07 76.06 −0.61 3.44	0987 l07 76.06 −0.61 3.44	0996 m07 76.06 −0.61 3.44	1005 n07 76.06 −0.61 3.44
08	0763 e08 47.99 −15.25 −20.95	0772 f08 42.91 −11.36 −15.67	0781 g08 37.83 −7.46 −10.38	0790 h08 32.76 −3.57 −5.1	0799 i08 27.68 0.31 0.17	0808 j08 21.75 8.59 6.09	0979 k08 85.73 −0.8 4.09	0988 l08 85.73 −0.8 4.09	0997 m08 85.73 −0.8 4.09	1006 n08 85.73 −0.8 4.09
09	0764 e09 43.39 −18.95 −26.89	0773 f09 38.31 −15.06 −21.6	0782 g09 33.24 −11.17 −16.32	0791 h09 28.16 −7.27 −11.03	0800 i09 23.08 −3.38 −5.75	0809 j09 18.02 0.49 −0.47	0980 k09 95.4 −0.98 4.75	0989 l09 95.4 −0.98 4.75	0998 m09 95.4 −0.98 4.75	1007 n09 95.4 −0.98 4.75
10	0837 e10 93.51 −4.8 39.02	0846 f10 92.88 −6.07 50.45	0855 g10 92.25 −7.34 61.88	0864 h10 91.62 −8.61 73.3	0873 i10 90.99 −9.88 84.73	0882 j10 90.36 −11.15 96.15	1008 k10 18.02 0.49 −0.47	1024 l10 18.02 0.49 −0.47	1040 m10 18.02 0.49 −0.47	1056 n10 18.02 0.49 −0.47
11	0838 e11 84.47 −3.34 26.95	0847 f11 83.84 −4.61 38.38	0856 g11 83.21 −5.88 49.81	0865 h11 82.58 −7.15 61.23	0874 i11 81.95 −8.43 72.66	0883 j11 81.32 −9.7 84.08	1009 k11 23.17 0.4 −0.12	1025 l11 23.17 0.4 −0.12	1041 m11 23.17 0.4 −0.12	1057 n11 23.17 0.4 −0.12
12	0839 e12 75.43 −1.88 14.87	0848 f12 74.8 −3.15 26.3	0857 g12 74.17 −4.43 37.73	0866 h12 73.54 −5.7 49.15	0875 i12 72.9 −6.97 60.58	0884 j12 72.28 −8.24 72.0	1010 k12 28.33 0.3 0.21	1026 l12 28.33 0.3 0.21	1042 m12 28.33 0.3 0.21	1058 n12 28.33 0.3 0.21
13	0840 e13 66.38 −0.43 2.79	0849 f13 65.75 −1.7 14.22	0858 g13 65.12 −2.97 25.65	0867 h13 64.49 −4.24 37.07	0876 i13 63.86 −5.51 48.5	0885 j13 63.23 −6.78 59.92	1011 k13 33.49 0.2 0.56	1027 l13 33.49 0.2 0.56	1043 m13 33.49 0.2 0.56	1059 n13 33.49 0.2 0.56
14	0841 e14 57.67 3.62 −3.34	0850 f14 56.71 −0.24 2.13	0859 g14 56.08 −1.51 13.57	0868 h14 55.45 −2.78 24.99	0877 i14 54.82 −4.05 36.42	0886 j14 54.19 −5.32 47.84	1012 k14 38.65 0.1 0.91	1028 l14 38.65 0.1 0.91	1044 m14 38.65 0.1 0.91	1060 n14 38.65 0.1 0.91
15	0842 e15 48.96 7.67 −9.48	0851 f15 47.99 3.81 −3.99	0860 g15 47.03 −0.05 1.48	0869 h15 46.4 −1.32 12.91	0878 i15 45.77 −2.6 24.34	0887 j15 45.14 −3.87 35.76	1013 k15 43.81 0.0 1.26	1029 l15 43.81 0.0 1.26	1045 m15 43.81 0.0 1.26	1061 n15 43.81 0.0 1.26
16	0843 e16 40.25 11.73 −15.62	0852 f16 39.28 7.86 −10.13	0861 g16 38.32 3.99 −4.64	0870 h16 37.36 0.12 0.82	0879 i16 36.73 −1.14 12.26	0888 j16 36.1 −2.41 23.68	1014 k16 48.97 −0.09 1.61	1030 l16 48.97 −0.09 1.61	1046 m16 48.97 −0.09 1.61	1062 n16 48.97 −0.09 1.61
17	0844 e17 31.54 15.78 −21.76	0853 f17 30.57 11.92 −16.27	0862 g17 29.61 8.05 −10.78	0871 h17 28.64 4.18 −5.3	0880 i17 27.68 0.31 0.17	0889 j17 27.05 −0.95 11.6	1015 k17 54.13 −0.19 1.96	1031 l17 54.13 −0.19 1.96	1047 m17 54.13 −0.19 1.96	1063 n17 54.13 −0.19 1.96
18	0845 e18 22.83 19.84 −27.89	0854 f18 21.87 15.97 −22.41	0863 g18 20.9 12.1 −16.92	0872 h18 19.94 8.23 −11.43	0881 i18 18.98 4.36 −5.95	0890 j18 18.02 0.49 −0.47	1016 k18 59.29 −0.29 2.31	1032 l18 59.29 −0.29 2.31	1048 m18 59.29 −0.29 2.31	1064 n18 59.29 −0.29 2.31
19	0918 e19 78.71 −24.22 16.73	0927 f19 73.15 −31.97 20.73	0936 g19 67.58 −39.72 24.72	0945 h19 62.02 −47.46 28.71	0954 i19 56.46 −55.21 32.71	0963 j19 50.9 −62.95 36.7	1017 k19 64.45 −0.39 2.65	1033 l19 64.45 −0.39 2.65	1049 m19 64.45 −0.39 2.65	1065 n19 64.45 −0.39 2.65
20	0919 e20 74.6 −16.29 12.09	0928 f20 69.04 −24.04 16.08	0937 g20 63.48 −31.79 20.08	0946 h20 57.91 −39.54 24.07	0955 i20 52.35 −47.28 28.06	0964 j20 46.79 −55.03 32.05	1018 k20 69.61 −0.49 3.0	1034 l20 69.61 −0.49 3.0	1050 m20 69.61 −0.49 3.0	1066 n20 69.61 −0.49 3.0
21	0920 e21 70.49 −8.36 7.44	0929 f21 64.93 −16.11 11.43	0938 g21 59.36 −23.86 15.43	0947 h21 53.8 −31.6 19.42	0956 i21 48.24 −39.35 23.42	0965 j21 42.68 −47.09 27.41	1019 k21 74.77 −0.59 3.35	1035 l21 74.77 −0.59 3.35	1051 m21 74.77 −0.59 3.35	1067 n21 74.77 −0.59 3.35
22	0921 e22 66.38 −0.43 2.79	0930 f22 60.82 −8.17 6.79	0939 g22 55.25 −15.92 10.78	0948 h22 49.69 −23.67 14.77	0957 i22 44.12 −31.42 18.77	0966 j22 38.57 −39.16 22.76	1020 k22 79.93 −0.69 3.7	1036 l22 79.93 −0.69 3.7	1052 m22 79.93 −0.69 3.7	1068 n22 79.93 −0.69 3.7
23	0922 e23 60.47 9.09 1.35	0931 f23 56.71 −0.24 2.13	0940 g23 51.14 −7.99 6.13	0949 h23 45.58 −15.74 10.13	0958 i23 40.01 −23.48 14.12	0967 j23 34.45 −31.22 18.11	1021 k23 85.09 −0.79 4.05	1037 l23 85.09 −0.79 4.05	1053 m23 85.09 −0.79 4.05	1069 n23 85.09 −0.79 4.05
24	0923 e24 54.56 18.61 −0.09	0932 f24 50.8 9.27 0.69	0941 g24 47.03 −0.05 1.48	0950 h24 41.47 −7.8 5.48	0959 i24 35.9 −15.55 9.47	0968 j24 30.34 −23.29 13.46	1022 k24 90.25 −0.89 4.4	1038 l24 90.25 −0.89 4.4	1054 m24 90.25 −0.89 4.4	1070 n24 90.25 −0.89 4.4
25	0924 e25 48.65 28.14 −1.53	0933 f25 44.89 18.8 −0.74	0942 g25 41.12 9.46 0.04	0951 h25 37.36 0.12 0.82	0960 i25 31.79 −7.62 4.83	0969 j25 26.23 −15.36 8.82	1023 k25 95.4 −0.98 4.75	1039 l25 95.4 −0.98 4.75	1055 m25 95.4 −0.98 4.75	1071 n25 95.4 −0.98 4.75
26	0925 e26 42.74 37.66 −2.98	0934 f26 38.98 28.32 −2.19	0943 g26 35.21 18.98 −1.39	0952 h26 31.45 9.65 −0.6	0961 i26 27.68 0.31 0.17	0970 j26 22.12 −7.42 4.17	1072 k26 18.02 0.49 −0.47	1074 l26 47.94 65.29 52.06	1076 m26 90.36 −11.15 96.15	1078 n26 50.9 −62.95 36.7
27	0926 e27 36.83 47.17 −4.42	0935 f27 33.07 37.84 −3.63	0944 g27 29.3 28.5 −2.84	0953 h27 25.54 19.16 −2.05	0962 i27 21.77 9.82 −1.26	0971 j27 18.02 0.49 −0.47	1073 k27 95.4 −0.98 4.75	1075 l27 58.61 −30.62 −42.74	1077 m27 25.72 31.44 −44.35	1079 n27 48.13 75.18 −6.79

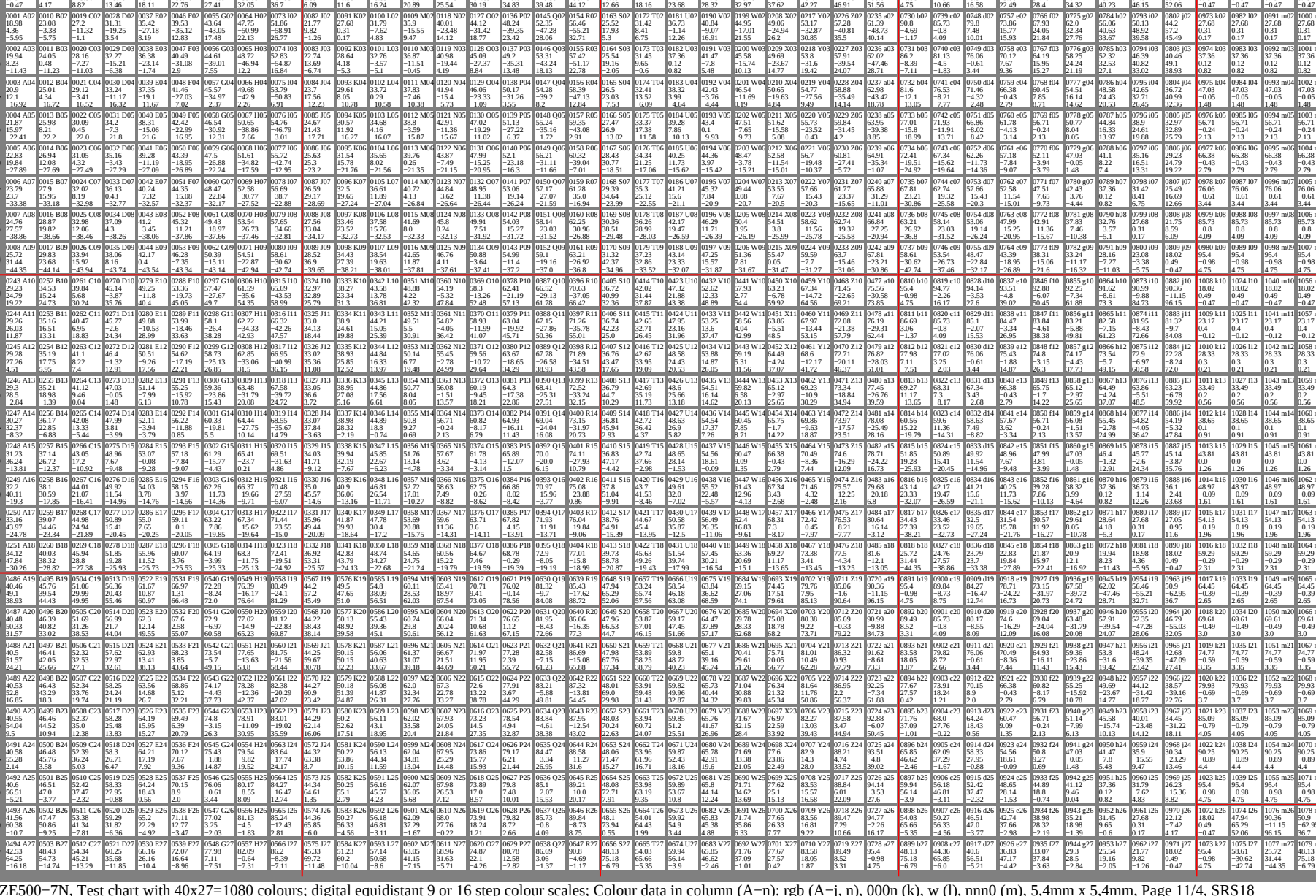
ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 10/4, NLS18

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

www.ps.bam.de/ZE50/10L/L50E00NP.PS/.PDF, Page 11/28; SRS18; transfer and output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems



ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 11/4, SRS18
BAM-test chart ZE50; Colorimetric systems, Page 11/28 input: *000n / w / nnn0 / rgb set...*
40x27=1080 colours with data: *rgb / w / cmy0 / 000n / LAB** output: *−>cmy0* setcmykcolor*

www.ps.bam.de/ZE50/10L/L50E00NP.PS/.PDF, Page 12/28; TLS70; transfer and output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems BAM material: code=rha4ta

	A	B	C	D	E	F	G	H	I	J	K	L
01	0000 A01 18.02 0.49 −0.47	0009 B01 22.12 −7.42 4.17	0018 C01 26.23 −15.36 8.82	0027 D01 30.34 −23.29 13.46	0036 E01 34.45 −31.22 18.11	0045 F01 38.57 −39.16 22.76	0054 G01 42.68 −47.09 27.41	0063 H01 46.79 −55.03 32.05	0072 I01 50.9 −62.95 36.7	0081 J01 21.75 8.59 6.09	0090 K01 27.05 −0.95 11.6	0099 L01 31.16 −8.89 16.24
02	0001 A02 18.98 4.36 −5.95	0010 B02 23.08 −3.38 −5.75	0019 C02 27.2 −11.32 −1.1	0028 D02 31.31 −19.25 3.54	0037 E02 35.42 −27.18 8.19	0046 F02 39.53 −35.12 12.83	0055 G02 43.64 −43.05 17.48	0064 H02 47.75 −50.99 22.13	0073 I02 51.86 −58.91 26.77	0082 J02 21.77 9.82 −1.26	0091 K02 27.68 0.31 0.17	0100 L02 31.79 −7.62 4.83
03	0002 A03 19.94 8.23 −11.43	0011 B03 24.05 0.48 −11.23	0020 C03 28.16 −7.27 −11.03	0029 D03 32.27 −15.21 −6.38	0038 E03 36.38 −23.14 −1.74	0047 F03 40.49 −31.08 2.9	0056 G03 44.61 −39.01 7.55	0065 H03 48.72 −46.94 12.2	0074 I03 52.83 −54.87 16.84	0083 J03 22.74 13.69 −6.74	0092 K03 28.64 4.18 −5.3	0101 L03 32.76 −3.57 −5.1
04	0003 A04 20.9 12.1 −16.92	0012 B04 25.01 4.34 −16.72	0021 C04 29.12 −3.41 −16.52	0030 D04 33.24 −11.17 −16.32	0039 E04 37.35 −19.1 −11.67	0048 F04 41.46 −27.03 −7.02	0057 G04 45.57 −34.97 −2.37	0066 H04 49.68 −42.9 2.26	0075 I04 53.79 −50.83 6.91	0084 J04 23.7 17.56 −12.23	0093 K04 29.61 8.05 −10.78	0102 L04 33.72 0.29 −10.58
05	0004 A05 21.87 15.97 −22.41	0013 B05 25.98 8.21 −22.2	0022 C05 30.09 0.45 −22.0	0031 D05 34.2 −7.3 −21.8	0040 E05 38.31 −15.06 −21.6	0049 F05 42.42 −22.99 −16.95	0058 G05 46.54 −30.92 −12.31	0067 H05 50.65 −38.86 −7.66	0076 I05 54.76 −46.79 −3.01	0085 J05 24.67 21.43 −17.71	0094 K05 30.57 11.92 −16.27	0103 L05 34.68 4.16 −16.07
06	0005 A06 22.83 19.84 −27.89	0014 B06 26.94 12.08 −27.69	0023 C06 31.05 4.32 −27.49	0032 D06 35.16 −3.43 −27.29	0041 E06 39.28 −11.19 −27.09	0050 F06 43.39 −18.95 −26.89	0059 G06 47.5 −26.88 −22.24	0068 H06 51.61 −34.82 −17.59	0077 I06 55.72 −42.74 −12.95	0086 J06 25.63 25.3 −23.2	0095 K06 31.54 15.78 −21.76	0104 L06 35.65 8.02 −21.56
07	0006 A07 23.79 23.7 −33.38	0015 B07 27.9 15.95 −33.18	0024 C07 32.02 8.19 −32.98	0033 D07 36.13 0.43 −32.77	0042 E07 40.24 −7.32 −32.57	0051 F07 44.35 −15.08 −32.37	0060 G07 48.47 −22.84 −32.17	0069 H07 52.58 −30.77 −27.52	0078 I07 56.69 −38.7 −22.88	0087 J07 26.59 29.17 −28.69	0096 K07 32.5 19.65 −27.24	0105 L07 36.61 11.89 −27.04
08	0007 A08 24.76 27.57 −38.86	0016 B08 28.87 19.82 −38.66	0025 C08 32.98 12.06 −38.46	0034 D08 37.09 4.3 −38.26	0043 E08 41.2 −3.45 −38.06	0052 F08 45.32 −11.21 −37.86	0061 G08 49.43 −18.97 −37.66	0070 H08 53.54 −26.73 −37.46	0079 I08 57.65 −34.66 −32.81	0088 J08 27.56 33.04 −34.17	0097 K08 33.46 23.52 −32.73	0106 L08 37.58 15.76 −32.53
09	0008 A09 25.72 31.44 −44.35	0017 B09 29.83 23.68 −44.14	0026 C09 33.94 15.92 −43.94	0035 D09 38.06 8.16 −43.74	0044 E09 42.17 0.4 −43.54	0053 F09 46.28 −7.35 −43.34	0062 G09 50.39 −15.11 −43.14	0071 H09 54.51 −22.87 −42.94	0080 I09 58.61 −30.62 −42.74	0089 J09 28.52 36.9 −39.65	0098 K09 34.43 27.39 −38.21	0107 L09 38.54 19.63 −38.01
10	0243 A10 29.23 24.79 19.22	0252 B10 34.53 15.24 24.73	0261 C10 39.84 5.68 30.24	0270 D10 45.14 −3.87 35.76	0279 E10 49.25 −11.8 40.4	0288 F10 53.36 −19.73 45.05	0297 G10 57.47 −27.67 49.7	0306 H10 61.59 −35.6 54.35	0315 I10 65.69 −43.53 58.99	0324 J10 32.97 32.89 25.79	0333 K10 38.27 23.34 31.3	0342 L10 43.58 13.78 36.81
11	0244 A11 29.26 26.03 11.87	0253 B11 35.16 16.51 13.31	0262 C11 40.47 6.95 18.83	0271 D11 45.77 −2.6 24.34	0280 E11 49.88 −10.53 28.99	0289 F11 53.99 −18.46 33.63	0298 G11 58.1 −26.4 38.28	0307 H11 62.22 −34.33 42.93	0316 I11 66.32 −42.26 47.57	0325 J11 33.0 34.13 18.44	0334 K11 38.9 24.61 19.88	0343 L11 44.21 15.05 25.39
12	0245 A12 29.28 27.26 4.51	0254 B12 35.19 17.75 5.95	0263 C12 41.1 8.22 7.4	0272 D12 46.4 −1.32 12.91	0281 E12 50.51 −9.26 17.56	0290 F12 54.62 −17.19 22.21	0299 G12 58.73 −25.13 26.85	0308 H12 62.85 −33.06 31.5	0317 I12 66.95 −40.99 36.15	0326 J12 33.02 35.36 11.08	0335 K12 38.93 25.85 12.52	0344 L12 44.84 16.33 13.97
13	0246 A13 29.3 28.5 −2.84	0255 B13 35.21 18.98 −1.39	0264 C13 41.12 9.46 0.04	0273 D13 47.03 −0.05 1.48	0282 E13 51.14 −7.99 6.13	0291 F13 55.25 −15.92 10.78	0300 G13 59.36 −23.86 15.43	0309 H13 63.48 −31.79 20.08	0318 I13 67.58 −39.72 24.72	0327 J13 33.05 36.6 3.72	0336 K13 38.95 27.08 5.16	0345 L13 44.86 17.56 6.61
14	0247 A14 30.27 32.37 −8.32	0256 B14 36.17 22.85 −6.88	0265 C14 42.08 13.33 −5.44	0274 D14 47.99 3.81 −3.99	0283 E14 52.11 −3.94 −3.79	0292 F14 56.22 −11.88 0.85	0301 G14 60.33 −19.81 5.5	0310 H14 64.44 −27.75 10.14	0319 I14 68.55 −35.67 14.79	0328 J14 33.07 37.84 −3.63	0337 K14 38.98 28.32 −2.19	0346 L14 44.89 18.8 −0.74
15	0248 A15 31.23 36.24 −13.81	0257 B15 37.14 26.72 −12.37	0266 C15 43.05 17.2 −10.92	0275 D15 48.96 7.67 −9.48	0284 E15 53.07 −0.08 −9.28	0293 F15 57.18 −7.84 −9.07	0302 G15 61.29 −15.77 −4.43	0311 H15 65.41 −23.7 0.21	0320 I15 69.51 −31.63 4.86	0329 J15 34.03 41.71 −9.12	0338 K15 39.94 32.19 −7.67	0347 L15 45.85 22.67 −6.23
16	0249 A16 32.2 40.11 −19.3	0258 B16 38.1 30.59 −17.85	0267 C16 44.01 21.07 −16.41	0276 D16 49.92 11.54 −14.96	0285 E16 54.03 3.78 −14.76	0294 F16 58.15 −3.97 −14.56	0303 G16 62.26 −11.73 −14.36	0312 H16 66.37 −19.66 −9.71	0321 I16 70.48 −27.59 −5.07	0330 J16 35.0 45.57 −14.6	0339 K16 40.9 36.06 −13.16	0348 L16 46.81 26.54 −11.71
17	0250 A17 33.16 43.97 −24.78	0259 B17 39.07 34.46 −23.34	0268 C17 44.98 24.94 −21.89	0277 D17 50.89 15.41 −20.45	0286 E17 55.0 7.65 −20.25	0295 F17 59.11 −0.1 −20.05	0304 G17 63.22 −7.86 −19.85	0313 H17 67.34 −15.62 −19.64	0322 I17 71.44 −23.55 −15.0	0331 J17 35.96 49.44 −20.09	0340 K17 41.87 39.93 −18.64	0349 L17 47.78 30.4 −17.2
18	0251 A18 34.12 47.84 −30.26	0260 B18 40.03 38.32 −28.82	0269 C18 45.94 28.8 −27.38	0278 D18 51.85 19.28 −25.93	0287 E18 55.96 11.52 −25.73	0296 F18 60.07 3.76 −25.53	0305 G18 64.19 −3.99 −25.33	0314 H18 68.3 −11.75 −25.13	0323 I18 72.41 −19.51 −24.92	0332 J18 36.92 53.31 −25.57	0341 K18 42.83 43.79 −24.13	0350 L18 48.74 34.27 −22.68
19	0486 A19 40.46 49.1 38.93	0495 B19 45.76 39.54 44.43	0504 C19 51.06 29.99 49.95	0513 D19 56.36 20.43 55.46	0522 E19 61.67 10.87 60.97	0531 F19 66.97 1.31 66.48	0540 G19 72.28 −8.24 72.0	0549 H19 76.39 −16.17 76.64	0558 I19 80.49 −24.1 81.29	0567 J19 44.2 57.2 45.49	0576 K19 49.5 47.65 51.0	0585 L19 54.8 38.09 56.51
20	0487 A20 40.48 50.33 31.57	0496 B20 46.39 40.82 33.02	0505 C20 51.69 31.26 38.53	0514 D20 56.99 21.7 44.04	0523 E20 62.3 12.14 49.55	0532 F20 67.6 2.58 55.07	0541 G20 72.9 −6.97 60.58	0550 H20 77.02 −14.9 65.23	0559 I20 81.12 −22.83 69.87	0568 J20 44.22 58.43 38.14	0577 K20 50.13 48.92 39.58	0586 L20 55.43 39.36 45.1
21	0488 A21 40.5 51.57 24.21	0497 B21 46.41 42.05 25.66	0506 C21 52.32 32.53 27.1	0515 D21 57.62 22.97 32.61	0524 E21 62.93 13.41 38.13	0533 F21 68.23 3.85 43.64	0542 G21 73.54 −5.7 49.15	0551 H21 77.65 −13.63 53.8	0560 I21 81.75 −21.56 58.44	0569 J21 44.25 59.67 30.78	0578 K21 50.15 50.15 32.23	0587 L21 56.06 40.63 33.67
22	0489 A22 40.53 52.8 16.85	0498 B22 46.43 43.29 18.3	0507 C22 52.34 33.76 19.74	0516 D22 58.25 24.24 21.19	0525 E22 63.56 14.68 26.7	0534 F22 68.86 5.12 32.21	0543 G22 74.17 −4.43 37.73	0552 H22 78.28 −12.36 42.37	0561 I22 82.38 −20.29 47.02	0570 J22 44.27 60.9 23.42	0579 K22 50.18 51.39 24.87	0588 L22 56.08 41.87 26.31
23	0490 A23 40.55 54.04 9.5	0499 B23 46.46 44.52 10.94	0508 C23 52.37 35.0 12.38	0517 D23 58.28 25.48 13.83	0526 E23 64.19 15.95 15.27	0535 F23 69.49 6.39 20.79	0544 G23 74.8 −3.15 26.3	0553 H23 78.91 −11.09 30.95	0562 I23 83.01 −19.02 35.59	0571 J23 44.29 62.14 16.06	0580 K23 50.2 52.62 17.51	0589 L23 56.11 43.1 18.95
24	0491 A24 40.58 55.28 2.14	0500 B24 46.48 45.76 3.58	0509 C24 52.39 36.24 5.03	0518 D24 58.3 26.71 6.47	0527 E24 64.21 17.19 7.92	0536 F24 70.12 7.67 9.36	0545 G24 75.43 −1.88 14.87	0554 H24 79.54 −9.82 19.52	0563 I24 83.64 −17.74 24.17	0572 J24 44.32 63.38 8.7	0581 K24 50.22 53.86 10.15	0590 L24 56.13 44.34 11.59
25	0492 A25 40.6 56.51 −5.21	0501 B25 46.51 47.0 −3.77	0510 C25 52.42 37.47 −2.32	0519 D25 58.33 27.95 −0.88	0528 E25 64.24 18.43 0.56	0537 F25 70.15 8.9 2.0	0546 G25 76.06 −0.61 3.44	0555 H25 80.17 −8.55 8.09	0564 I25 84.27 −16.47 12.74	0573 J25 44.34 64.61 1.35	0582 K25 50.25 55.1 2.79	0591 L25 56.16 45.57 4.23
26	0493 A26 41.56 60.38 −10.7	0502 B26 47.47 50.86 −9.25	0511 C26 53.38 41.34 −7.81	0520 D26 59.29 31.82 −6.36	0529 E26 65.2 22.29 −4.92	0538 F26 71.11 12.77 −3.47	0547 G26 77.02 3.25 −2.03	0556 H26 81.13 −4.5 −1.83	0565 I26 85.24 −12.43 2.81	0574 J26 44.36 65.85 −6.0	0583 K26 50.27 56.33 −4.56	0592 L26 56.18 46.81 −3.11
27	0494 A27 42.53 64.25 −16.18	0503 B27 48.43 54.73 −14.74	0512 C27 54.34 45.21 −13.29	0521 D27 60.25 35.68 −11.85	0530 E27 66.16 26.16 −10.4	0539 F27 72.07 16.64 −8.96	0548 G27 77.98 7.11 −7.51	0557 H27 82.09 −0.64 −7.31	0566 I27 86.2 −8.39 −7.11	0575 J27 45.33 69.72 −11.48	0584 K27 51.23 60.2 −10.04	0593 L27 57.14 50.68 −8.6

	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	a
01	0108 M01 35.27 −16.82 20.89	0117 N01 39.38 −24.75 25.54	0126 O01 43.5 −32.69 30.19	0135 P01 47.61 −40.62 34.83	0144 Q01 51.72 −48.55 39.48	0153 R01 55.83 −56.48 44.12	0162 S01 25.49 16.69 12.66	0171 T01 30.79 7.14 18.16	0180 U01 36.1 −2.41 23.68	0189 V01 40.21 −10.34 28.32	0198 W01 44.32 −18.28 32.97	0207 X01 48.43 −26.21 37.62	0216 Y01 52.54 −34.14 42.27	0225 Z01 56.65 −42.08 46.91	0234 a01 60.76 −50.01 51.56
02	0109 M02 35.9 −15.55 9.47	0118 N02 40.01 −23.48 14.12	0127 O02 44.12 −31.42 18.77	0136 P02 48.24 −39.35 23.42	0145 Q02 52.35 −47.28 28.06	0154 R02 56.46 −55.21 32.71	0163 S02 25.52 17.93 5.3	0172 T02 31.42 8.41 6.75	0181 U02 36.73 −1.14 12.26	0190 V02 40.84 −9.07 16.91	0199 W02 44.95 −17.01 21.55	0208 X02 49.06 −24.94 26.2	0217 Y02 53.17 −32.87 30.85	0226 Z02 57.28 −40.81 35.5	0235 a02 61.39 −48.73 40.14
03	0110 M03 36.87 −11.51 −0.45	0119 N03 40.98 −19.44 4.19	0128 O03 45.09 −27.37 8.84	0137 P03 49.2 −35.31 13.48	0146 Q03 53.31 −43.24 18.13	0155 R03 57.42 −51.17 22.78	0164 S03 25.54 19.16 −2.05	0173 T03 31.45 9.65 −0.6	0182 U03 37.36 0.12 0.82	0191 V03 41.47 −7.8 5.48	0200 W03 45.58 −15.74 10.13	0209 X03 49.69 −23.67 14.77	0218 Y03 53.8 −31.6 19.42	0227 Z03 57.91 −39.54 24.07	0236 a03 62.02 −47.46 28.71
04	0111 M04 37.83 −7.46 −10.38	0120 N04 41.94 −15.4 −5.73	0129 O04 46.06 −23.33 −1.09	0138 P04 50.17 −31.26 3.55	0147 Q04 54.28 −39.2 8.2	0156 R04 58.39 −47.13 12.84	0165 S04 26.5 23.03 −7.53	0174 T04 32.41 13.52 −6.09	0183 U04 38.32 3.99 −4.64	0192 V04 42.43 −3.76 −4.44	0201 W04 46.54 −11.69 0.19	0210 X04 50.65 −19.63 4.84	0219 Y04 54.77 −27.56 9.49	0228 Z04 58.88 −35.49 14.14	0237 a04 62.98 −43.42 18.78
05	0112 M05 38.8 −3.59 −15.87	0121 N05 42.91 −11.36 −15.67	0130 O05 47.02 −19.29 −11.02	0139 P05 51.13 −27.22 −6.37	0148 Q05 55.24 −35.16 −1.72	0157 R05 59.35 −43.08 2.91	0166 S05 27.47 26.9 −13.02	0175 T05 33.37 17.38 −11.58	0184 U05 39.28 7.86 −10.13	0193 V05 43.4 0.1 −9.93	0202 W05 47.51 −7.65 −9.73	0211 X05 51.62 −15.58 −5.08	0220 Y05 55.73 −23.52 −0.43	0229 Z05 59.84 −31.45 4.2	0238 a05 63.95 −39.38 8.85
06	0113 M06 39.76 0.26 −21.35	0122 N06 43.87 −7.49 −21.15	0131 O06 47.99 −15.25 −20.95	0140 P06 52.1 −23.18 −16.3	0149 Q06 56.21 −31.11 −11.66	0158 R06 60.32 −39.04 −7.01	0167 S06 28.43 30.77 −18.51	0176 T06 34.34 21.25 −17.06	0185 U06 40.25 11.73 −15.62	0194 V06 44.36 3.97 −15.42	0203 W06 48.47 −3.78 −15.21	0212 X06 52.58 −11.54 −15.01	0221 Y06 56.7 −19.48 −10.37	0230 Z06 60.81 −27.41 −5.72	0239 a06 64.91 −35.34 −1.07
07	0114 M07 40.72 4.13 −26.84	0123 N07 44.84 −3.62 −26.64	0132 O07 48.95 −11.38 −26.44	0141 P07 53.06 −19.14 −26.24	0150 Q07 57.17 −27.07 −21.59	0159 R07 61.28 −35.0 −16.94	0168 S07 29.39 34.64 −23.99	0177 T07 35.3 25.12 −22.55	0186 U07 41.21 15.6 −21.1	0195 V07 45.32 7.84 −20.9	0204 W07 49.44 0.08 −20.7	0213 X07 53.55 −7.67 −20.5	0222 Y07 57.66 −15.43 −20.3	0231 Z07 61.77 −23.37 −15.65	0240 a07 65.88 −31.29 −11.01
08	0115 M08 41.69 8.0 −32.33	0124 N08 45.8 0.24 −32.13	0133 O08 49.91 −7.51 −31.92	0142 P08 54.03 −15.27 −31.72	0151 Q08 58.14 −23.03 −31.52	0160 R08 62.25 −30.96 −26.88	0169 S08 30.36 38.51 −29.48	0178 T08 36.26 28.99 −28.03	0187 U08 42.17 19.47 −26.59	0196 V08 46.29 11.71 −26.39	0205 W08 50.4 3.95 −26.19	0214 X08 54.51 −3.8 −25.99	0223 Y08 58.62 −11.56 −25.78	0232 Z08 62.74 −19.32 −25.58	0241 a08 66.84 −27.25 −20.94
09	0116 M09 42.65 11.87 −37.81	0125 N09 46.76 4.11 −37.61	0134 O09 50.88 −3.64 −37.41	0143 P09 54.99 −11.4 −37.2	0152 Q09 59.1 −19.16 −37.0	0161 R09 63.21 −26.92 −36.8	0170 S09 31.32 42.37 −34.96	0179 T09 37.23 32.86 −33.52	0188 U09 43.14 23.33 −32.07	0197 V09 47.25 15.57 −31.87	0206 W09 51.36 7.81 −31.67	0215 X09 55.47 0.05 −31.47	0224 Y09 59.59 −7.7 −31.27	0233 Z09 63.7 −15.46 −31.06	0242 a09 67.81 −23.21 −30.86
10	0351 M10 48.88 4.22 42.32	0360 N10 54.19 −5.32 47.84	0369 O10 58.3 −13.26 52.48	0378 P10 62.41 −21.19 57.13	0387 Q10 66.52 −29.13 61.78	0396 R10 70.63 −37.05 66.42	0405 S10 36.72 40.99 32.36	0414 T10 42.02 31.44 37.87	0423 U10 47.32 21.88 43.38	0432 V10 52.62 12.33 48.89	0441 W10 57.93 2.77 54.4	0450 X10 63.23 −6.78 59.92	0459 Y10 67.34 −14.72 64.56	0468 Z10 71.45 −22.65 69.21	0477 a10 75.56 −30.58 73.85
11	0352 M11 49.51 5.5 30.91	0361 N11 54.82 −4.05 36.42	0370 O11 58.93 −11.99 41.07	0379 P11 63.04 −19.92 45.71	0388 Q11 67.15 −27.86 50.36	0397 R11 71.26 −35.78 55.01	0406 S11 36.74 42.23 25.0	0415 T11 42.65 32.71 26.45	0424 U11 47.95 23.16 31.96	0433 V11 53.25 13.6 37.47	0442 W11 58.56 4.04 42.99	0451 X11 63.86 −5.51 48.5	0460 Y11 67.97 −13.44 53.15	0469 Z11 72.08 −21.38 57.79	0478 a11 76.19 −29.31 62.44
12	0353 M12 50.14 6.77 19.48	0362 N12 55.45 −2.78 24.99	0371 O12 59.56 −10.72 29.64	0380 P12 63.67 −18.65 34.29	0389 Q12 67.78 −26.58 38.93	0398 R12 71.89 −34.51 43.58	0407 S12 36.76 43.47 17.65	0416 T12 42.67 33.95 19.09	0425 U12 48.58 24.43 20.53	0434 V12 53.88 14.87 26.05	0443 W12 59.19 5.31 31.56	0452 X12 64.49 −4.24 37.07	0461 Y12 68.6 −12.17 41.72	0470 Z12 72.71 −20.11 46.37	0479 a12 76.82 −28.03 51.01
13	0354 M13 50.77 8.04 8.05	0363 N13 56.08 −1.51 13.57	0372 O13 60.19 −9.45 18.21	0381 P13 64.3 −17.38 22.86	0390 Q13 68.41 −25.31 27.51	0399 R13 72.52 −33.24 32.15	0408 S13 36.79 44.7 10.29	0417 T13 42.69 35.19 11.73	0426 U13 48.6 25.66 13.18	0435 V13 54.51 16.14 14.62	0444 W13 59.82 6.58 20.13	0453 X13 65.12 −2.97 25.65	0462 Y13 69.23 −10.9 30.29	0471 Z13 73.34 −18.84 34.94	0480 a13 77.45 −26.76 39.59
14	0355 M14 50.8 9.27 0.69	0364 N14 56.71 −0.24 2.13	0373 O14 60.82 −8.17 6.79	0382 P14 64.93 −16.11 11.43	0391 Q14 69.04 −24.04 16.08	0400 R14 73.15 −31.97 20.73	0409 S14 36.81 45.94 2.93	0418 T14 42.72 36.42 4.37	0427 U14 48.63 26.9 5.82	0436 V14 54.54 17.37 7.26	0445 W14 60.45 7.85 8.71	0454 X14 65.75 −1.7 14.22	0463 Y14 69.86 −9.63 18.87	0472 Z14 73.97 −17.57 23.51	0481 a14 78.08 −25.49 28.16
15	0356 M15 51.76 13.14 −4.78	0365 N15 57.67 3.62 −3.34	0374 O15 61.78 −4.13 −3.14	0383 P15 65.89 −12.07 1.5	0392 Q15 70.0 −20.0 6.15	0401 R15 74.11 −27.93 10.79	0410 S15 36.83 47.17 −4.42	0419 T15 42.74 37.66 −2.98	0428 U15 48.65 28.14 −1.53	0437 V15 54.56 18.61 −0.09	0446 W15 60.47 9.09 1.35	0455 X15 66.38 −0.43 2.79	0464 Y15 70.49 −8.36 7.44	0473 Z15 74.6 −16.29 12.09	0482 a15 78.71 −24.22 16.73
16	0357 M16 52.72 17.01 −10.27	0366 N16 58.63 7.49 −8.82	0375 O16 62.75 −0.26 −8.62	0384 P16 66.86 −8.02 −8.42	0393 Q16 70.97 −15.96 −3.77	0402 R16 75.08 −23.88 0.86	0411 S16 37.8 51.04 −9.91	0420 T16 43.7 41.53 −8.46	0429 U16 49.61 32.0 −7.02	0438 V16 55.52 22.48 −5.57	0447 W16 61.43 12.96 −4.13	0456 X16 67.34 3.43 −2.68	0465 Y16 71.46 −4.32 −2.48	0474 Z16 75.57 −12.25 2.16	0483 a16 79.68 −20.18 6.8
17	0358 M17 53.69 20.88 −15.75	0367 N17 59.6 11.36 −14.31	0376 O17 63.71 3.6 −14.11	0385 P17 67.82 −4.15 −13.91	0394 Q17 71.93 −11.91 −13.71	0403 R17 76.04 −19.84 −9.06	0412 S17 38.76 54.91 −15.39	0421 T17 44.67 45.4 −13.95	0430 U17 50.58 35.87 −12.5	0439 V17 56.49 26.35 −11.06	0448 W17 62.4 16.83 −9.61	0457 X17 68.31 7.3 −8.17	0466 Y17 72.42 −0.45 −7.97	0475 Z17 76.53 −8.21 −7.77	0484 a17 80.64 −16.14 −3.12
18	0359 M18 54.65 24.75 −21.24	0368 N18 60.56 15.22 −19.79	0377 O18 64.67 7.46 −19.59	0386 P18 68.78 −0.29 −19.39	0395 Q18 72.9 −8.05 −19.19	0404 R18 77.01 −15.8 −18.99	0413 S18 39.73 58.78 −20.87	0422 T18 45.63 49.26 −19.43	0431 U18 51.54 39.74 −17.99	0440 V18 57.45 30.21 −16.54	0449 W18 63.36 20.69 −15.1	0458 X18 69.27 11.17 −13.65	0467 Y18 73.38 3.41 −13.45	0476 Z18 77.5 −4.34 −13.25	0485 a18 81.6 −12.1 −13.05
19	0594 M19 60.11 28.53 62.03	0603 N19 65.41 18.97 67.54	0612 O19 70.71 9.41 73.05	0621 P19 76.02 −0.14 78.56	0630 Q19 81.32 −9.7 84.08	0639 R19 85.43 −17.62 88.72	0648 S19 47.94 65.29 52.06	0657 T19 53.24 55.74 57.56	0666 U19 58.54 46.18 63.08	0675 V19 63.84 36.62 68.59	0684 W19 69.15 27.06 74.1	0693 X19 74.45 17.51 79.61	0702 Y19 79.76 7.95 85.13	0711 Z19 85.06 −1.6 90.64	0720 a19 90.36 −11.15 96.15
20	0595 M20 60.74 29.8 50.61	0604 N20 66.04 20.24 56.12	0613 O20 71.34 10.68 61.63	0622 P20 76.65 1.12 67.15	0631 Q20 81.95 −8.43 72.66	0640 R20 86.06 −16.35 77.3	0649 S20 47.96 66.53 44.7	0658 T20 53.87 57.01 46.15	0667 U20 59.17 47.45 51.66	0676 V20 64.47 37.89 57.17	0685 W20 69.78 28.33 62.68	0694 X20 75.08 18.78 68.2	0703 Y20 80.38 9.22 73.71	0712 Z20 85.69 −0.33 79.22	0721 a20 90.99 −9.88 84.73
21	0596 M21 61.37 31.07 39.18	0605 N21 66.67 21.51 44.69	0614 O21 71.97 11.95 50.21	0623 P21 77.28 2.39 55.72	0632 Q21 82.58 −7.15 61.23	0641 R21 86.69 −15.08 65.88	0650 S21 47.98 67.76 37.34	0659 T21 53.89 58.25 38.79	0668 U21 59.8 48.72 40.23	0677 V21 65.1 39.16 45.74	0686 W21 70.41 29.61 51.26	0695 X21 75.71 20.05 56.77	0704 Y21 81.01 10.49 62.28	0713 Z21 86.32 0.93 67.79	0722 a21 91.62 −8.61 73.3
22	0597 M22 62.0 32.34 27.76	0606 N22 67.3 22.78 33.27	0615 O22 72.6 13.22 38.78	0624 P22 77.91 3.67 44.29	0633 Q22 83.21 −5.88 49.81	0642 R22 87.32 −13.81 54.45	0651 S22 48.01 69.0 29.98	0660 T22 53.91 59.48 31.43	0669 U22 59.82 49.96 32.87	0678 V22 65.73 40.44 34.32	0687 W22 71.04 30.88 39.83	0696 X22 76.34 21.32 45.34	0705 Y22 81.64 11.76 50.86	0714 Z22 86.95 2.2 56.37	0723 a22 92.25 −7.34 61.88
23	0598 M23 62.02 33.58 20.4	0607 N23 67.93 24.05 21.84	0616 O23 73.23 14.5 27.35	0625 P23 78.54 4.94 32.87	0634 Q23 83.84 −4.61 38.38	0643 R23 87.95 −12.54 43.02	0652 S23 48.03 70.24 22.63	0661 T23 53.94 60.72 24.07	0670 U23 59.85 51.2 25.51	0679 V23 65.76 41.67 26.96	0688 W23 71.67 32.15 28.4	0697 X23 76.97 22.59 33.92	0706 Y23 82.27 13.03 39.43	0715 Z23 87.58 3.47 44.94	0724 a23 92.88 −6.07 50.45
24	0599 M24 62.04 34.81 13.04	0608 N24 67.95 25.29 14.48	0617 O24 73.86 15.77 15.93	0626 P24 79.17 6.21 21.44	0635 Q24 84.47 −3.34 26.95	0644 R24 88.58 −11.27 31.6	0653 S24 48.06 71.47 15.27	0662 T24 53.96 61.96 16.71	0671 U24 59.87 52.43 18.16	0680 V24 65.78 42.91 19.6	0689 W24 71.69 33.38 21.05	0698 X24 77.6 23.86 22.49	0707 Y24 82.9 14.3 28.0	0716 Z24 88.21 4.74 33.52	0725 a24 93.51 −4.8 39.02
25	0600 M25 62.07 36.05 5.68	0609 N25 67.98 26.53 7.12	0618 O25 73.89 17.0 8.57	0627 P25 79.8 7.48 10.01	0636 Q25 85.1 −2.07 15.53	0645 R25 89.21 −10.0 20.17	0654 S25 48.08 72.71 7.91	0663 T25 53.98 63.19 9.35	0672 U25 59.89 53.67 10.8	0681 V25 65.8 44.14 12.24	0690 W25 71.71 34.62 13.69	0699 X25 77.62 25.1 15.13	0708 Y25 83.53 15.57 16.58	0717 Z25 88.84 6.01 22.09	0726 a25 94.14 −3.53 27.6
26	0601 M26 62.09 37.29 −1.67	0610 N26 68.0 27.76 −0.22	0619 O26 73.91 18.24 1.21	0628 P26 79.82 8.72 2.66	0637 Q26 85.73 −0.8 4.09	0646 R26 89.84 −8.73 8.75	0655 S26 48.1 73.94 0.55	0664 T26 54.01 64.43 1.99	0673 U26 59.92 54.9 3.44	0682 V26 65.83 45.38 4.88	0691 W26 71.74 35.86 6.33	0700 X26 77.65 26.33 7.77	0709 Y26 83.56 16.81 9.22	0718 Z26 89.47 7.29 10.66	0727 a26 94.77 −2.26 16.17
27	0602 M27 63.05 41.15 −7.15	0611 N27 68.96 31.63 −5.71	0620 O27 74.87 22.1 −4.26	0629 P27 80.78 12.58 −2.82	0638 Q27 86.69 3.06 −1.37	0647 R27 90.8 −4.69 −1.17	0656 S27 48.13 75.18 −6.79	0665 T27 54.03 65.66 −5.35	0674 U27 59.94 56.14 −3.9	0683 V27 65.85 46.62 −2.46	0692 W27 71.76 37.09 −1.01	0701 X27 77.67 27.57 0.42	0710 Y27 83.58 18.05 1.87	0719 Z27 89.49 8.52 3.31	0728 a27 95.4 −0.98 4.75

	b	c	d	e	f	g	h	i	j	k	l	m	n
01	0729 b01 95.4 −0.98 4.75	0738 c01 89.47 7.29 10.66	0747 d01 83.53 15.57 16.58	0756 e01 77.6 23.86 22.49	0765 f01 71.67 32.15 28.4	0774 g01 65.73 40.44 34.32	0783 h01 59.8 48.72 40.23	0792 i01 53.87 57.01 46.15	0801 j01 47.94 65.29 52.06	0972 k01 18.02 0.49 −0.47	0981 l01 18.02 0.49 −0.47	0990 m01 18.02 0.49 −0.47	0999 n01 18.02 0.49 −0.47
02	0730 b02 90.8 −4.69 −1.17	0739 c02 85.73 −0.8 4.09	0748 d02 79.8 7.48 10.01	0757 e02 73.86 15.77 15.93	0766 f02 67.93 24.05 21.84	0775 g02 62.0 32.34 27.76	0784 h02 56.06 40.63 33.67	0793 i02 50.13 48.92 39.58	0802 j02 44.2 57.2 45.49	0973 k02 27.68 0.31 0.17	0982 l02 27.68 0.31 0.17	0991 m02 27.68 0.31 0.17	1000 n02 27.68 0.31 0.17
03	0731 b03 86.2 −8.39 −7.11	0740 c03 81.13 −4.5 −1.83	0749 d03 76.06 −0.61 3.44	0758 e03 70.12 7.67 9.36	0767 f03 64.19 15.95 15.27	0776 g03 58.25 24.24 21.19	0785 h03 52.32 32.53 27.1	0794 i03 46.39 40.82 33.02	0803 j03 40.46 49.1 38.93	0974 k03 37.36 0.12 0.82	0983 l03 37.36 0.12 0.82	0992 m03 37.36 0.12 0.82	1001 n03 37.36 0.12 0.82
04	0732 b04 81.6 −12.1 −13.05	0741 c04 76.53 −8.21 −7.77	0750 d04 71.46 −4.32 −2.48	0759 e04 66.38 −0.43 2.79	0768 f04 60.45 7.85 8.71	0777 g04 54.51 16.14 14.62	0786 h04 48.58 24.43 20.53	0795 i04 42.65 32.71 26.45	0804 j04 36.72 40.99 32.36	0975 k04 47.03 −0.05 1.48	0984 l04 47.03 −0.05 1.48	0993 m04 47.03 −0.05 1.48	1002 n04 47.03 −0.05 1.48
05	0733 b05 77.01 −15.8 −18.99	0742 c05 71.93 −11.91 −13.71	0751 d05 66.86 −8.02 −8.42	0760 e05 61.78 −4.13 −3.14	0769 f05 56.71 −0.24 2.13	0778 g05 50.77 8.04 8.05	0787 h05 44.84 16.33 13.97	0796 i05 38.9 24.61 19.88	0805 j05 32.97 32.89 25.79	0976 k05 56.71 −0.24 2.13	0985 l05 56.71 −0.24 2.13	0994 m05 56.71 −0.24 2.13	1003 n05 56.71 −0.24 2.13
06	0734 b06 72.41 −19.51 −24.92	0743 c06 67.34 −15.62 −19.64	0752 d06 62.26 −11.73 −14.36	0761 e06 57.18 −7.84 −9.07	0770 f06 52.11 −3.94 −3.79	0779 g06 47.03 −0.05 1.48	0788 h06 41.1 8.22 7.4	0797 i06 35.16 16.51 13.31	0806 j06 29.23 24.79 19.22	0977 k06 66.38 −0.43 2.79	0986 l06 66.38 −0.43 2.79	0995 m06 66.38 −0.43 2.79	1004 n06 66.38 −0.43 2.79
07	0735 b07 67.81 −23.21 −30.86	0744 c07 62.74 −19.32 −25.58	0753 d07 57.66 −15.43 −20.3	0762 e07 52.58 −11.54 −15.01	0771 f07 47.51 −7.65 −9.73	0780 g07 42.43 −3.76 −4.44	0789 h07 37.36 0.12 0.82	0798 i07 31.42 8.41 6.75	0807 j07 25.49 16.69 12.66	0978 k07 76.06 −0.61 3.44	0987 l07 76.06 −0.61 3.44	0996 m07 76.06 −0.61 3.44	1005 n07 76.06 −0.61 3.44
08	0736 b08 63.21 −26.92 −36.8	0745 c08 58.14 −23.03 −31.52	0754 d08 53.06 −19.14 −26.24	0763 e08 47.99 −15.25 −20.95	0772 f08 42.91 −11.36 −15.67	0781 g08 37.83 −7.46 −10.38	0790 h08 32.76 −3.57 −5.1	0799 i08 27.68 0.31 0.17	0808 j08 21.75 8.59 6.09	0979 k08 85.73 −0.8 4.09	0988 l08 85.73 −0.8 4.09	0997 m08 85.73 −0.8 4.09	1006 n08 85.73 −0.8 4.09
09	0737 b09 58.61 −30.62 −42.74	0746 c09 53.54 −26.73 −37.46	0755 d09 48.47 −22.84 −32.17	0764 e09 43.39 −18.95 −26.89	0773 f09 38.31 −15.06 −21.6	0782 g09 33.24 −11.17 −16.32	0791 h09 28.16 −7.27 −11.03	0800 i09 23.08 −3.38 −5.75	0809 j09 18.02 0.49 −0.47	0980 k09 95.4 −0.98 4.75	0989 l09 95.4 −0.98 4.75	0998 m09 95.4 −0.98 4.75	1007 n09 95.4 −0.98 4.75
10	0810 b10 95.4 −0.98 4.75	0819 c10 94.77 −2.26 16.17	0828 d10 94.14 −3.53 27.6	0837 e10 93.51 −4.8 39.02	0846 f10 92.88 −6.07 50.45	0855 g10 92.25 −7.34 61.88	0864 h10 91.62 −8.61 73.3	0873 i10 90.99 −9.88 84.73	0882 j10 90.36 −11.15 96.15	1008 k10 18.02 0.49 −0.47	1024 l10 18.02 0.49 −0.47	1040 m10 18.02 0.49 −0.47	1056 n10 18.02 0.49 −0.47
11	0811 b11 86.69 3.06 −1.37	0820 c11 85.73 −0.8 4.09	0829 d11 85.1 −2.07 15.53	0838 e11 84.47 −3.34 26.95	0847 f11 83.84 −4.61 38.38	0856 g11 83.21 −5.88 49.81	0865 h11 82.58 −7.15 61.23	0874 i11 81.95 −8.43 72.66	0883 j11 81.32 −9.7 84.08	1009 k11 23.17 0.4 −0.12	1025 l11 23.17 0.4 −0.12	1041 m11 23.17 0.4 −0.12	1057 n11 23.17 0.4 −0.12
12	0812 b12 77.98 7.11 −7.51	0821 c12 77.02 3.25 −2.03	0830 d12 76.06 −0.61 3.44	0839 e12 75.43 −1.88 14.87	0848 f12 74.8 −3.15 26.3	0857 g12 74.17 −4.43 37.73	0866 h12 73.54 −5.7 49.15	0875 i12 72.9 −6.97 60.58	0884 j12 72.28 −8.24 72.0	1010 k12 28.33 0.3 0.21	1026 l12 28.33 0.3 0.21	1042 m12 28.33 0.3 0.21	1058 n12 28.33 0.3 0.21
13	0813 b13 69.27 11.17 −13.65	0822 c13 68.31 7.3 −8.17	0831 d13 67.34 3.43 −2.68	0840 e13 66.38 −0.43 2.79	0849 f13 65.75 −1.7 14.22	0858 g13 65.12 −2.97 25.65	0867 h13 64.49 −4.24 37.07	0876 i13 63.86 −5.51 48.5	0885 j13 63.23 −6.78 59.92	1011 k13 33.49 0.2 0.56	1027 l13 33.49 0.2 0.56	1043 m13 33.49 0.2 0.56	1059 n13 33.49 0.2 0.56
14	0814 b14 60.56 15.22 −19.79	0823 c14 59.6 11.36 −14.31	0832 d14 58.63 7.49 −8.82	0841 e14 57.67 3.62 −3.34	0850 f14 56.71 −0.24 2.13	0859 g14 56.08 −1.51 13.57	0868 h14 55.45 −2.78 24.99	0877 i14 54.82 −4.05 36.42	0886 j14 54.19 −5.32 47.84	1012 k14 38.65 0.1 0.91	1028 l14 38.65 0.1 0.91	1044 m14 38.65 0.1 0.91	1060 n14 38.65 0.1 0.91
15	0815 b15 51.85 19.28 −25.93	0824 c15 50.89 15.41 −20.45	0833 d15 49.92 11.54 −14.96	0842 e15 48.96 7.67 −9.48	0851 f15 47.99 3.81 −3.99	0860 g15 47.03 −0.05 1.48	0869 h15 46.4 −1.32 12.91	0878 i15 45.77 −2.6 24.34	0887 j15 45.14 −3.87 35.76	1013 k15 43.81 0.0 1.26	1029 l15 43.81 0.0 1.26	1045 m15 43.81 0.0 1.26	1061 n15 43.81 0.0 1.26
16	0816 b16 43.14 23.33 −32.07	0825 c16 42.17 19.47 −26.59	0834 d16 41.21 15.6 −21.1	0843 e16 40.25 11.73 −15.62	0852 f16 39.28 7.86 −10.13	0861 g16 38.32 3.99 −4.64	0870 h16 37.36 0.12 0.82	0879 i16 36.73 −1.14 12.26	0888 j16 36.1 −2.41 23.68	1014 k16 48.97 −0.09 1.61	1030 l16 48.97 −0.09 1.61	1046 m16 48.97 −0.09 1.61	1062 n16 48.97 −0.09 1.61
17	0817 b17 34.43 27.39 −38.21	0826 c17 33.46 23.52 −32.73	0835 d17 32.5 19.65 −27.24	0844 e17 31.54 15.78 −21.76	0853 f17 30.57 11.92 −16.27	0862 g17 29.61 8.05 −10.78	0871 h17 28.64 4.18 −5.3	0880 i17 27.68 0.31 0.17	0889 j17 27.05 −0.95 11.6	1015 k17 54.13 −0.19 1.96	1031 l17 54.13 −0.19 1.96	1047 m17 54.13 −0.19 1.96	1063 n17 54.13 −0.19 1.96
18	0818 b18 25.72 31.44 −44.35	0827 c18 24.76 27.57 −38.86	0836 d18 23.79 23.7 −33.38	0845 e18 22.83 19.84 −27.89	0854 f18 21.87 15.97 −22.41	0863 g18 20.9 12.1 −16.92	0872 h18 19.94 8.23 −11.43	0881 i18 18.98 4.36 −5.95	0890 j18 18.02 0.49 −0.47	1016 k18 59.29 −0.29 2.31	1032 l18 59.29 −0.29 2.31	1048 m18 59.29 −0.29 2.31	1064 n18 59.29 −0.29 2.31
19	0891 b19 95.4 −0.98 4.75	0900 c19 89.84 −8.73 8.75	0909 d19 84.27 −16.47 12.74	0918 e19 78.71 −24.22 16.73	0927 f19 73.15 −31.97 20.73	0936 g19 67.58 −39.72 24.72	0945 h19 62.02 −47.46 28.71	0954 i19 56.46 −55.21 32.71	0963 j19 50.9 −62.95 36.7	1017 k19 64.45 −0.39 2.65	1033 l19 64.45 −0.39 2.65	1049 m19 64.45 −0.39 2.65	1065 n19 64.45 −0.39 2.65
20	0892 b20 89.49 8.52 3.31	0901 c20 85.73 −0.8 4.09	0910 d20 80.17 −8.55 8.09	0919 e20 74.6 −16.29 12.09	0928 f20 69.04 −24.04 16.08	0937 g20 63.48 −31.79 20.08	0946 h20 57.91 −39.54 24.07	0955 i20 52.35 −47.28 28.06	0964 j20 46.79 −55.03 32.05	1018 k20 69.61 −0.49 3.0	1034 l20 69.61 −0.49 3.0	1050 m20 69.61 −0.49 3.0	1066 n20 69.61 −0.49 3.0
21	0893 b21 83.58 18.05 1.87	0902 c21 79.82 8.72 2.66	0911 d21 76.06 −0.61 3.44	0920 e21 70.49 −8.36 7.44	0929 f21 64.93 −16.11 11.43	0938 g21 59.36 −23.86 15.43	0947 h21 53.8 −31.6 19.42	0956 i21 48.24 −39.35 23.42	0965 j21 42.68 −47.09 27.41	1019 k21 74.77 −0.59 3.35	1035 l21 74.77 −0.59 3.35	1051 m21 74.77 −0.59 3.35	1067 n21 74.77 −0.59 3.35
22	0894 b22 77.67 27.57 0.42	0903 c22 73.91 18.24 1.21	0912 d22 70.15 8.9 2.0	0921 e22 66.38 −0.43 2.79	0930 f22 60.82 −8.17 6.79	0939 g22 55.25 −15.92 10.78	0948 h22 49.69 −23.67 14.77	0957 i22 44.12 −31.42 18.77	0966 j22 38.57 −39.16 22.76	1020 k22 79.93 −0.69 3.7	1036 l22 79.93 −0.69 3.7	1052 m22 79.93 −0.69 3.7	1068 n22 79.93 −0.69 3.7
23	0895 b23 71.76 37.09 −1.01	0904 c23 68.0 27.76 −0.22	0913 d23 64.24 18.43 0.56	0922 e23 60.47 9.09 1.35	0931 f23 56.71 −0.24 2.13	0940 g23 51.14 −7.99 6.13	0949 h23 45.58 −15.74 10.13	0958 i23 40.01 −23.48 14.12	0967 j23 34.45 −31.22 18.11	1021 k23 85.09 −0.79 4.05	1037 l23 85.09 −0.79 4.05	1053 m23 85.09 −0.79 4.05	1069 n23 85.09 −0.79 4.05
24	0896 b24 65.85 46.62 −2.46	0905 c24 62.09 37.29 −1.67	0914 d24 58.33 27.95 −0.88	0923 e24 54.56 18.61 −0.09	0932 f24 50.8 9.27 0.69	0941 g24 47.03 −0.05 1.48	0950 h24 41.47 −7.8 5.48	0959 i24 35.9 −15.55 9.47	0968 j24 30.34 −23.29 13.46	1022 k24 90.25 −0.89 4.4	1038 l24 90.25 −0.89 4.4	1054 m24 90.25 −0.89 4.4	1070 n24 90.25 −0.89 4.4
25	0897 b25 59.94 56.14 −3.9	0906 c25 56.18 46.81 −3.11	0915 d25 52.42 37.47 −2.32	0924 e25 48.65 28.14 −1.53	0933 f25 44.89 18.8 −0.74	0942 g25 41.12 9.46 0.04	0951 h25 37.36 0.12 0.82	0960 i25 31.79 −7.62 4.83	0969 j25 26.23 −15.36 8.82	1023 k25 95.4 −0.98 4.75	1039 l25 95.4 −0.98 4.75	1055 m25 95.4 −0.98 4.75	1071 n25 95.4 −0.98 4.75
26	0898 b26 54.03 65.66 −5.35	0907 c26 50.27 56.33 −4.56	0916 d26 46.51 47.0 −3.77	0925 e26 42.74 37.66 −2.98	0934 f26 38.98 28.32 −2.19	0943 g26 35.21 18.98 −1.39	0952 h26 31.45 9.65 −0.6	0961 i26 27.68 0.31 0.17	0970 j26 22.12 −7.42 4.17	1072 k26 18.02 0.49 −0.47	1074 l26 47.94 65.29 52.06	1076 m26 90.36 −11.15 96.15	1078 n26 50.9 −62.95 36.7
27	0899 b27 48.13 75.18 −6.79	0908 c27 44.36 65.85 −6.0	0917 d27 40.6 56.51 −5.21	0926 e27 36.83 47.17 −4.42	0935 f27 33.07 37.84 −3.63	0944 g27 29.3 28.5 −2.84	0953 h27 25.54 19.16 −2.05	0962 i27 21.77 9.82 −1.26	0971 j27 18.02 0.49 −0.47	1073 k27 95.4 −0.98 4.75	1075 l27 58.61 −30.62 −42.74	1077 m27 25.72 31.44 −44.35	1079 n27 48.13 75.18 −6.79

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 12/4, TLS70

BAM-test chart ZE50; Colorimetric systems, Page 12/28 input: *000n / w / nnn0 / rgb set...*
40x27=1080 colours with data: *rgb / w / cmy0 / 000n / LAB** output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems BAM material: code=rha4ta

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.03 0.0 −0.01	0009 B01 10.46 −10.33 9.97	0018 C01 20.91 −20.67 19.96	0027 D01 31.36 −31.01 29.95	0036 E01 41.81 −41.36 39.94	0045 F01 52.26 −51.7 49.92	0054 G01 62.71 −62.04 59.91	0063 H01 73.16 −72.38 69.9	0072 I01 83.61 −82.72 79.88	0081 J01 6.32 9.6 8.06
02	0001 A02 3.81 9.49 −12.93	0010 B02 10.86 −5.76 −1.69	0019 C02 21.32 −16.1 8.29	0028 D02 31.77 −26.44 18.28	0037 E02 42.22 −36.79 28.27	0046 F02 52.67 −47.13 38.25	0055 G02 63.12 −57.47 48.24	0064 H02 73.57 −67.81 58.23	0073 I02 84.01 −78.15 68.21	0082 J02 7.17 11.78 −7.29
03	0002 A03 7.61 19.0 −25.88	0011 B03 14.66 3.74 −14.64	0020 C03 21.72 −11.53 −3.38	0029 D03 32.17 −21.87 6.6	0038 E03 42.63 −32.21 16.59	0047 F03 53.08 −42.56 26.57	0056 G03 63.53 −52.9 36.56	0065 H03 73.98 −63.24 46.55	0074 I03 84.42 −73.57 56.53	0083 J03 10.97 21.29 −20.24
04	0003 A04 11.4 28.51 −38.83	0012 B04 18.46 13.25 −27.59	0021 C04 25.52 −2.02 −16.33	0030 D04 32.58 −17.3 −5.07	0039 E04 43.03 −27.64 4.91	0048 F04 53.48 −37.98 14.89	0057 G04 63.94 −48.32 24.88	0066 H04 74.39 −58.67 34.87	0075 I04 84.83 −69.0 44.85	0084 J04 14.77 30.79 −33.19
05	0004 A05 15.2 38.02 −51.78	0013 B05 22.26 22.75 −40.54	0022 C05 29.32 7.48 −29.28	0031 D05 36.38 −7.79 −18.02	0040 E05 43.44 −23.07 −6.76	0049 F05 53.89 −33.41 3.21	0058 G05 64.34 −43.75 13.2	0067 H05 74.79 −54.09 23.19	0076 I05 85.24 −64.43 33.17	0085 J05 18.56 40.3 −46.14
06	0005 A06 19.0 47.52 −64.73	0014 B06 26.05 32.26 −53.49	0023 C06 33.12 16.98 −42.23	0032 D06 40.18 1.71 −30.97	0041 E06 47.24 −13.56 −19.71	0050 F06 54.3 −28.83 −8.46	0059 G06 64.75 −39.18 1.52	0068 H06 75.2 −49.52 11.51	0077 I06 85.64 −59.85 21.49	0086 J06 22.36 49.81 −59.09
07	0006 A07 22.8 57.03 −77.68	0015 B07 29.85 41.77 −66.44	0024 C07 36.91 26.49 −55.18	0033 D07 43.97 11.22 −43.92	0042 E07 51.04 −4.05 −32.66	0051 F07 58.1 −19.33 −21.41	0060 G07 65.16 −34.6 −10.15	0069 H07 75.61 −44.95 −0.16	0078 I07 86.05 −55.28 9.81	0087 J07 26.16 59.32 −72.04
08	0007 A08 26.59 66.54 −90.63	0016 B08 33.65 51.28 −79.39	0025 C08 40.71 36.0 −68.13	0034 D08 47.77 20.72 −56.87	0043 E08 54.83 5.45 −45.61	0052 F08 61.89 −9.82 −34.36	0061 G08 68.96 −25.1 −23.1	0070 H08 76.02 −40.37 −11.84	0079 I08 86.46 −50.71 −1.86	0088 J08 29.96 68.82 −84.99
09	0008 A09 30.39 76.04 −103.57	0017 B09 37.44 60.78 −92.33	0026 C09 44.51 45.5 −81.07	0035 D09 51.57 30.22 −69.81	0044 E09 58.63 14.95 −58.55	0053 F09 65.69 −0.32 −47.3	0062 G09 72.75 −15.6 −36.04	0071 H09 79.81 −30.87 −24.78	0080 I09 86.87 −46.14 −13.53	0089 J09 33.75 78.32 −97.93
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 −7.75 34.02	0279 E10 45.2 −18.09 44.0	0288 F10 55.65 −28.43 53.99	0297 G10 66.1 −38.78 63.98	0306 H10 76.55 −49.12 73.97	0315 I10 87.0 −59.45 83.95	0324 J10 25.25 38.44 32.26
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 −5.17 22.68	0280 E11 45.54 −15.51 32.67	0289 F11 55.99 −25.85 42.66	0298 G11 66.45 −36.19 52.65	0307 H11 76.9 −46.54 62.63	0316 I11 87.34 −56.87 72.61	0325 J11 26.11 40.62 16.91
12	0245 A12 20.65 33.19 −6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 −2.58 11.34	0281 E12 45.89 −12.92 21.33	0290 F12 56.34 −23.27 31.31	0299 G12 66.79 −33.61 41.3	0308 H12 77.24 −43.95 51.29	0317 I12 87.68 −54.28 61.27	0326 J12 26.96 42.8 1.54
13	0246 A13 21.5 35.37 −21.89	0255 B13 26.26 23.58 −14.6	0264 C13 31.02 11.79 −7.3	0273 D13 35.79 0.0 −0.01	0282 E13 46.23 −10.34 9.98	0291 F13 56.68 −20.68 19.97	0300 G13 67.13 −31.02 29.96	0309 H13 77.59 −41.37 39.95	0318 I13 88.03 −51.7 49.92	0327 J13 27.81 44.98 −13.82
14	0247 A14 25.29 44.87 −34.84	0256 B14 30.05 33.09 −27.55	0265 C14 34.82 21.3 −20.25	0274 D14 39.58 9.5 −12.95	0283 E14 46.64 −5.76 −1.69	0292 F14 57.09 −16.11 8.29	0301 G14 67.54 −26.45 18.28	0310 H14 77.99 −36.79 28.27	0319 I14 88.44 −47.13 38.24	0328 J14 28.66 47.16 −29.19
15	0248 A15 29.09 54.38 −47.79	0257 B15 33.85 42.6 −40.5	0266 C15 38.61 30.8 −33.2	0275 D15 43.38 19.01 −25.9	0284 E15 50.44 3.73 −14.64	0293 F15 57.5 −11.53 −3.38	0302 G15 67.95 −21.88 6.6	0311 H15 78.4 −32.22 16.59	0320 I15 88.84 −42.55 26.56	0329 J15 32.46 56.67 −42.14
16	0249 A16 32.89 63.89 −60.74	0258 B16 37.65 52.11 −53.44	0267 C16 42.41 40.31 −46.15	0276 D16 47.17 28.52 −38.84	0285 E16 54.23 13.24 −27.59	0294 F16 61.3 −2.03 −16.33	0303 G16 68.36 −17.3 −5.07	0312 H16 78.81 −27.64 4.91	0321 I16 89.25 −37.98 14.88	0330 J16 36.25 66.18 −55.09
17	0250 A17 36.69 73.4 −73.69	0259 B17 41.45 61.61 −66.4	0268 C17 46.21 49.82 −59.1	0277 D17 50.97 38.03 −51.8	0286 E17 58.03 22.75 −40.54	0295 F17 65.09 7.47 −29.28	0304 G17 72.15 −7.79 −18.02	0313 H17 79.22 −23.07 −6.77	0322 I17 89.66 −33.4 3.2	0331 J17 40.05 75.68 −68.04
18	0251 A18 40.48 82.9 −86.63	0260 B18 45.24 71.11 −79.33	0269 C18 50.0 59.32 −72.03	0278 D18 54.76 47.52 −64.73	0287 E18 61.83 32.25 −53.48	0296 F18 68.89 16.97 −42.22	0305 G18 75.95 1.7 −30.96	0314 H18 83.01 −13.57 −19.7	0323 I18 90.07 −28.83 −8.46	0332 J18 43.85 85.18 −80.98
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 −3.3 64.77	0540 G19 69.49 −15.5 68.05	0549 H19 79.94 −25.85 78.04	0558 I19 90.39 −36.18 88.02	0567 J19 44.19 67.28 56.47
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 −0.72 53.44	0541 G20 69.84 −12.92 56.71	0550 H20 80.29 −23.26 66.7	0559 I20 90.73 −33.6 76.68	0568 J20 45.04 69.46 41.11
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 −10.34 45.37	0551 H21 80.63 −20.68 55.36	0560 I21 91.07 −31.01 65.34	0569 J21 45.89 71.64 25.74
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 −7.75 34.03	0552 H22 80.98 −18.09 44.01	0561 I22 91.42 −28.43 53.99	0570 J22 46.74 73.82 10.38
23	0490 A23 41.28 66.39 −13.05	0499 B23 46.04 54.6 −5.76	0508 C23 50.8 42.81 1.53	0517 D23 55.57 31.02 8.83	0526 E23 60.33 19.22 16.13	0535 F23 65.6 7.02 19.41	0544 G23 70.87 −5.17 22.68	0553 H23 81.32 −15.51 32.67	0562 I23 91.76 −25.84 42.65	0571 J23 47.59 76.0 −4.98
24	0491 A24 42.13 68.57 −28.42	0500 B24 46.89 56.78 −21.13	0509 C24 51.65 44.99 −13.83	0518 D24 56.42 33.2 −6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 −2.58 11.34	0554 H24 81.66 −12.92 21.33	0563 I24 92.11 −23.26 31.31	0572 J24 48.44 78.18 −20.35
25	0492 A25 42.98 70.75 −43.79	0501 B25 47.74 58.96 −36.5	0510 C25 52.51 47.17 −29.2	0519 D25 57.27 35.38 −21.9	0528 E25 62.03 23.58 −14.6	0537 F25 66.79 11.79 −7.3	0546 G25 71.57 0.0 −0.01	0555 H25 82.01 −10.34 9.98	0564 I25 92.45 −20.67 19.96	0573 J25 49.3 80.36 −35.72
26	0493 A26 46.78 80.26 −56.74	0502 B26 51.54 68.47 −49.45	0511 C26 56.3 56.68 −42.15	0520 D26 61.07 44.88 −34.85	0529 E26 65.83 33.09 −27.55	0538 F26 70.59 21.3 −20.25	0547 G26 75.35 9.5 −12.95	0556 H26 82.41 −5.76 −1.69	0565 I26 92.86 −16.1 8.28	0574 J26 50.15 82.54 −51.09
27	0494 A27 50.58 89.76 −69.68	0503 B27 55.33 77.97 −62.38	0512 C27 60.1 66.18 −55.08	0521 D27 64.86 54.38 −47.78	0530 E27 69.62 42.59 −40.48	0539 F27 74.38 30.8 −33.18	0548 G27 79.15 19.0 −25.88	0557 H27 86.21 3.73 −14.63	0566 I27 93.26 −11.53 −3.38	0575 J27 53.94 92.04 −64.03

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.59 −2.58 11.33	0099 L01 22.04 −12.92 21.32	0108 M01 32.49 −23.26 31.3	0117 N01 42.94 −33.61 41.29	0126 O01 53.39 −43.95 51.28	0135 P01 63.84 −54.29 61.27	0144 Q01 74.29 −64.63 71.25	0153 R01 84.74 −74.97 81.23	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4
02	0091 K02 11.94 0.0 −0.01	0100 L02 22.38 −10.34 9.98	0109 M02 32.83 −20.68 19.97	0118 N02 43.28 −31.02 29.96	0127 O02 53.74 −41.37 39.95	0136 P02 64.19 −51.71 49.93	0145 Q02 74.64 −62.05 59.92	0154 R02 85.08 −72.38 69.9	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06
03	0092 K03 15.73 9.5 −12.95	0101 L03 22.79 −5.76 −1.69	0110 M03 33.24 −16.11 8.29	0119 N03 43.69 −26.45 18.28	0128 O03 54.14 −36.79 28.27	0137 P03 64.59 −47.13 38.25	0146 Q03 75.05 −57.48 48.24	0155 R03 85.49 −67.81 58.22	0164 S03 14.33 23.57 −14.59	0173 T03 19.09 11.79 −7.3
04	0093 K04 19.53 19.01 −25.9	0102 L04 26.59 3.73 −14.64	0111 M04 33.65 −11.53 −3.38	0120 N04 44.1 −21.88 6.6	0129 O04 54.55 −32.22 16.59	0138 P04 65.0 −42.56 26.57	0147 Q04 75.45 −52.9 36.56	0156 R04 85.9 −63.24 46.54	0165 S04 18.13 33.08 −27.54	0174 T04 22.89 21.3 −20.25
05	0094 K05 23.32 28.52 −38.84	0103 L05 30.38 13.24 −27.59	0112 M05 37.44 −2.03 −16.33	0121 N05 44.51 −17.3 −5.07	0130 O05 54.96 −27.64 4.91	0139 P05 65.41 −37.99 14.89	0148 Q05 75.86 −48.33 24.88	0157 R05 86.3 −58.66 34.86	0166 S05 21.93 42.59 −40.49	0175 T05 26.69 30.8 −33.2
06	0095 K06 27.12 38.03 −51.8	0104 L06 34.18 22.75 −40.54	0113 M06 41.24 7.47 −29.28	0122 N06 48.3 −7.79 −18.02	0131 O06 55.36 −23.07 −6.77	0140 P06 65.82 −33.41 3.21	0149 Q06 76.27 −43.76 13.2	0158 R06 86.71 −54.09 23.18	0167 S06 25.73 52.1 −53.44	0176 T06 30.49 40.31 −46.15
07	0096 K07 30.92 47.53 −64.75	0105 L07 37.98 32.26 −53.49	0114 M07 45.04 16.98 −42.23	0123 N07 52.1 1.7 −30.97	0132 O07 59.16 −13.56 −19.71	0141 P07 66.22 −28.84 −8.46	0150 Q07 76.68 −39.18 1.52	0159 R07 87.12 −49.52 11.5	0168 S07 29.52 61.6 −66.39	0177 T07 34.28 49.82 −59.1
08	0097 K08 34.71 57.04 −77.69	0106 L08 41.78 41.76 −66.44	0115 M08 48.84 26.49 −55.18	0124 N08 55.9 11.21 −43.92	0133 O08 62.96 −4.06 −32.66	0142 P08 70.02 −19.33 −21.41	0151 Q08 77.08 −34.61 −10.15	0160 R08 87.53 −44.94 −0.17	0169 S08 33.32 71.11 −79.34	0178 T08 38.08 59.33 −72.05
09	0098 K09 38.51 66.54 −90.63	0107 L09 45.57 51.26 −79.38	0116 M09 52.63 35.99 −68.12	0125 N09 59.69 20.71 −56.86	0134 O09 66.75 5.43 −45.6	0143 P09 73.82 −9.83 −34.35	0152 Q09 80.88 −25.11 −23.09	0161 R09 87.93 −40.37 −11.84	0170 S09 37.12 80.61 −92.28	0179 T09 41.87 68.83 −84.98
10	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 −10.33 45.36	0369 O10 56.78 −20.68 55.35	0378 P10 67.23 −31.02 65.34	0387 Q10 77.68 −41.36 75.32	0396 R10 88.13 −51.69 85.3	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6
11	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 −7.75 34.03	0370 O11 57.13 −18.09 44.01	0379 P11 67.58 −28.43 54.0	0388 Q11 78.03 −38.78 63.99	0397 R11 88.47 −49.11 73.97	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27
12	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 −5.17 22.68	0371 O12 57.47 −15.51 32.67	0380 P12 67.92 −25.85 42.66	0389 Q12 78.37 −36.19 52.65	0398 R12 88.81 −46.53 62.62	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9
13	0336 K13 32.57 33.2 −6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 −2.58 11.34	0372 O13 57.81 −12.92 21.33	0381 P13 68.26 −23.27 31.31	0390 Q13 78.72 −33.61 41.3	0399 R13 89.16 −43.94 51.28	0408 S13 34.12 54.59 −5.75	0417 T13 38.88 42.81 1.53
14	0337 K14 33.42 35.38 −21.9	0346 L14 38.18 23.58 −14.6	0355 M14 42.94 11.79 −7.3	0364 N14 47.72 0.0 −0.01	0373 O14 58.16 −10.34 9.98	0382 P14 68.61 −20.68 19.97	0391 Q14 79.06 −31.02 29.96	0400 R14 89.5 −41.36 39.94	0409 S14 34.97 56.77 −21.12	0418 T14 39.73 44.99 −13.83
15	0338 K15 37.21 44.88 −34.85	0347 L15 41.98 33.09 −27.55	0356 M15 46.74 21.3 −20.25	0365 N15 51.5 9.5 −12.95	0374 O15 58.56 −5.76 −1.69	0383 P15 69.02 −16.11 8.29	0392 Q15 79.47 −26.45 18.28	0401 R15 89.91 −36.78 28.26	0410 S15 35.82 58.95 −36.49	0419 T15 40.58 47.17 −29.2
16	0339 K16 41.01 54.39 −47.8	0348 L16 45.78 42.6 −40.5	0357 M16 50.54 30.8 −33.2	0366 N16 55.3 19.01 −25.9	0375 O16 62.36 3.73 −14.64	0384 P16 69.42 −11.53 −3.38	0393 Q16 79.87 −21.88 6.6	0402 R16 90.32 −32.21 16.58	0411 S16 39.62 68.46 −49.44	0420 T16 44.38 56.68 −42.15
17	0340 K17 44.81 63.9 −60.75	0349 L17 49.57 52.11 −53.44	0358 M17 54.34 40.31 −46.15	0367 N17 59.1 28.52 −38.84	0376 O17 66.16 13.24 −27.59	0385 P17 73.22 −2.03 −16.33	0394 Q17 80.28 −17.3 −5.07	0403 R17 90.72 −27.64 4.9	0412 S17 43.42 77.97 −62.39	0421 T17 48.18 66.19 −55.1
18	0341 K18 48.6 73.4 −73.68	0350 L18 53.37 61.6 −66.38	0359 M18 58.13 49.81 −59.08	0368 N18 62.89 38.02 −51.78	0377 O18 69.95 22.74 −40.53	0386 P18 77.01 7.46 −29.27	0395 Q18 84.08 −7.8 −18.01	0404 R18 91.13 −23.07 −6.76	0413 S18 47.21 87.47 −75.33	0422 T18 51.97 75.68 −68.03
19	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 −5.89 76.12	0630 Q19 81.07 −18.09 79.39	0639 R19 91.52 −28.42 89.37	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8
20	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 −3.31 64.78	0631 Q20 81.42 −15.51 68.06	0640 R20 91.86 −25.84 78.04	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47
21	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 −0.72 53.44	0632 Q21 81.76 −12.92 56.71	0641 R21 92.2 −23.25 66.69	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1
22	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 −10.34 45.37	0642 R22 92.55 −20.67 55.35	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73
23	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 −7.75 34.03	0643 R23 92.89 −18.08 44.01	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36
24	0581 K24 53.2 66.4 −13.06	0590 L24 57.96 54.6 −5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 −5.17 22.68	0644 R24 93.24 −15.5 32.66	0653 S24 54.75 87.79 −12.29	0662 T24 59.51 76.0 −5.0
25	0582 K25 54.05 68.58 −28.43	0591 L25 58.82 56.78 −21.13	0600 M25 63.58 44.99 −13.83	0609 N25 68.34 33.2 −6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 −2.58 11.34	0645 R25 93.58 −12.91 21.32	0654 S25 55.6 89.97 −27.66	0663 T25 60.36 78.18 −20.36
26	0583 K26 54.91 70.76 −43.8	0592 L26 59.67 58.96 −36.5	0601 M26 64.43 47.17 −29.2	0610 N26 69.19 35.38 −21.9	0619 O26 73.96 23.58 −14.6	0628 P26 78.72 11.79 −7.3	0637 Q26 83.49 0.0 −0.01	0646 R26 93.92 −10.33 9.97	0655 S26 56.45 92.15 −43.03	0664 T26 61.21 80.36 −35.73
27	0584 K27 58.7 80.26 −56.73	0593 L27 63.46 68.46 −49.43	0602 M27 68.22 56.67 −42.13	0611 N27 72.99 44.88 −34.83	0620 O27 77.75 33.08 −27.53	0629 P27 82.51 21.29 −20.23	0638 Q27 87.27 9.49 −12.93	0647 R27 94.33 −5.76 −1.69	0656 S27 57.3 94.33 −58.38	0665 T27 62.06 82.54 −51.09

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 23.17 −5.16 22.67	0189 V01 33.62 −15.51 32.66	0198 W01 44.07 −25.85 42.65	0207 X01 54.52 −36.19 52.64	0216 Y01 64.97 −46.53 62.62	0225 Z01 75.42 −56.88 72.61	0234 a01 85.87 −67.21 82.59	0729 b01 95.41 0.0 −0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13
02	0181 U02 23.51 −2.58 11.34	0190 V02 33.96 −12.92 21.33	0199 W02 44.41 −23.27 31.31	0208 X02 54.87 −33.61 41.3	0217 Y02 65.32 −43.95 51.29	0226 Z02 75.77 −54.29 61.28	0235 a02 86.21 −64.63 71.26	0730 b02 94.33 −5.76 −1.69	0739 c02 83.49 0.0 −0.01	0748 d02 77.87 9.61 8.06
03	0182 U03 23.87 0.0 −0.01	0191 V03 34.31 −10.34 9.98	0200 W03 44.76 −20.68 19.97	0209 X03 55.21 −31.02 29.96	0218 Y03 65.66 −41.37 39.95	0227 Z03 76.11 −51.71 49.93	0236 a03 86.55 −62.04 59.91	0731 b03 93.26 −11.53 −3.38	0740 c03 82.41 −5.76 −1.69	0749 d03 71.57 0.0 −0.01
04	0183 U04 27.65 9.5 −12.95	0192 V04 34.71 −5.76 −1.69	0201 W04 45.17 −16.11 8.29	0210 X04 55.62 −26.45 18.28	0219 Y04 66.07 −36.79 28.27	0228 Z04 76.52 −47.13 38.25	0237 a04 86.96 −57.47 48.23	0732 b04 92.2 −17.3 −5.07	0741 c04 81.35 −11.53 −3.38	0750 d04 70.49 −5.76 −1.69
05	0184 U05 31.45 19.01 −25.9	0193 V05 38.51 3.73 −14.64	0202 W05 45.57 −11.53 −3.38	0211 X05 56.02 −21.88 6.6	0220 Y05 66.48 −32.22 16.59	0229 Z05 76.93 −42.56 26.57	0238 a05 87.37 −52.89 36.55	0733 b05 91.13 −23.07 −6.76	0742 c05 80.28 −17.3 −5.07	0751 d05 69.42 −11.53 −3.38
06	0185 U06 35.25 28.52 −38.84	0194 V06 42.31 13.24 −27.59	0203 W06 49.37 −2.03 −16.33	0212 X06 56.43 −17.3 −5.07	0221 Y06 66.88 −27.64 4.91	0230 Z06 77.33 −37.99 14.89	0239 a06 87.78 −48.32 24.87	0734 b06 90.07 −28.83 −8.46	0743 c06 79.22 −23.07 −6.77	0752 d06 68.36 −17.3 −5.07
07	0186 U07 39.05 38.03 −51.8	0195 V07 46.11 22.75 −40.54	0204 W07 53.17 7.47 −29.28	0213 X07 60.23 −7.79 −18.02	0222 Y07 67.29 −23.07 −6.77	0231 Z07 77.74 −33.41 3.21	0240 a07 88.18 −43.75 13.19	0735 b07 89.0 −34.6 −10.15	0744 c07 78.15 −28.84 −8.46	0753 d07 67.29 −23.07 −6.77
08	0187 U08 42.84 47.53 −64.75	0196 V08 49.9 32.26 −53.49	0205 W08 56.96 16.98 −42.23	0214 X08 64.03 1.7 −30.97	0223 Y08 71.09 −13.56 −19.71	0232 Z08 78.15 −28.84 −8.46	0241 a08 88.59 −39.17 1.51	0736 b08 87.93 −40.37 −11.84	0745 c08 77.08 −34.61 −10.15	0754 d08 66.22 −28.84 −8.46
09	0188 U09 46.64 57.03 −77.68	0197 V09 53.7 41.76 −66.43	0206 W09 60.76 26.48 −55.17	0215 X09 67.82 11.2 −43.91	0224 Y09 74.88 −4.06 −32.65	0233 Z09 81.94 −19.34 −21.4	0242 a09 89.0 −34.6 −10.15	0737 b09 86.87 −46.14 −13.53	0746 c09 76.02 −40.37 −11.84	0755 d09 65.16 −34.6 −10.15
10	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 −0.72 53.43	0450 X10 57.91 −12.92 56.7	0459 Y10 68.36 −23.26 66.69	0468 Z10 78.81 −33.6 76.68	0477 a10 89.26 −43.94 86.66	0810 b10 95.41 0.0 −0.01	0819 c10 95.05 −2.58 11.33	0828 d10 94.71 −5.16 22.67
11	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 −10.34 45.37	0460 Y11 68.71 −20.68 55.36	0469 Z11 79.16 −31.02 65.35	0478 a11 89.6 −41.35 75.32	0811 b11 87.27 9.49 −12.93	0820 c11 83.49 0.0 −0.01	0829 d11 83.14 −2.58 11.34
12	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 −7.75 34.03	0461 Y12 69.05 −18.09 44.01	0470 Z12 79.5 −28.43 54.0	0479 a12 89.94 −38.77 63.98	0812 b12 79.15 19.0 −25.88	0821 c12 75.35 9.5 −12.95	0830 d12 71.57 0.0 −0.01
13	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 −5.17 22.68	0462 Y13 69.39 −15.51 32.67	0471 Z13 79.85 −25.85 42.66	0480 a13 90.29 −36.18 52.64	0813 b13 71.02 28.51 −38.83	0822 c13 67.23 19.01 −25.9	0831 d13 63.43 9.5 −12.95
14	0427 U14 44.49 33.2 −6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 −2.58 11.34	0463 Y14 69.74 −12.92 21.33	0472 Z14 80.19 −23.27 31.31	0481 a14 90.63 −33.6 41.29	0814 b14 62.89 38.02 −51.78	0823 c14 59.1 28.52 −38.84	0832 d14 55.3 19.01 −25.9
15	0428 U15 45.34 35.38 −21.9	0437 V15 50.11 23.58 −14.6	0446 W15 54.87 11.79 −7.3	0455 X15 59.64 0.0 −0.01	0464 Y15 70.08 −10.34 9.98	0473 Z15 80.53 −20.68 19.97	0482 a15 90.98 −31.01 29.95	0815 b15 54.76 47.52 −64.73	0824 c15 50.97 38.03 −51.8	0833 d15 47.17 28.52 −38.84
16	0429 U16 49.14 44.88 −34.85	0438 V16 53.9 33.09 −27.55	0447 W16 58.67 21.3 −20.25	0456 X16 63.43 9.5 −12.95	0465 Y16 70.49 −5.76 −1.69	0474 Z16 80.94 −16.11 8.29	0483 a16 91.38 −26.44 18.27	0816 b16 46.64 57.03 −77.68	0825 c16 42.84 47.53 −64.75	0834 d16 39.05 38.03 −51.8
17	0430 U17 52.94 54.39 −47.8	0439 V17 57.7 42.6 −40.5	0448 W17 62.46 30.8 −33.2	0457 X17 67.23 19.01 −25.9	0466 Y17 74.29 3.73 −14.64	0475 Z17 81.35 −11.53 −3.38	0484 a17 91.79 −21.87 6.59	0817 b17 38.51 66.54 −90.63	0826 c17 34.71 57.04 −77.69	0835 d17 30.92 47.53 −64.75
18	0431 U18 56.73 63.89 −60.73	0440 V18 61.49 52.1 −53.43	0449 W18 66.26 40.3 −46.13	0458 X18 71.02 28.51 −38.83	0467 Y18 78.08 13.23 −27.58	0476 Z18 85.14 −2.03 −16.32	0485 a18 92.2 −17.3 −5.07	0818 b18 30.39 76.04 −103.57	0827 c18 26.59 66.54 −90.63	0836 d18 22.8 57.03 −77.68
19	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 −8.48 87.45	0720 a19 92.65 −20.67 90.73	0891 b19 95.41 0.0 −0.01	0900 c19 93.92 −10.33 9.97	0909 d19 92.45 −20.67 19.96
20	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 −5.9 76.12	0721 a20 92.99 −18.09 79.39	0892 b20 90.64 11.78 −7.29	0901 c20 83.49 0.0 −0.01	0910 d20 82.01 −10.34 9.98
21	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 −3.31 64.78	0722 a21 93.33 −15.5 68.05	0893 b21 85.87 23.57 −14.59	0902 c21 78.72 11.79 −7.3	0911 d21 71.57 0.0 −0.01
22	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 −0.73 53.43	0723 a22 93.68 −12.92 56.7	0894 b22 81.11 35.37 −21.89	0903 c22 73.96 23.58 −14.6	0912 d22 66.79 11.79 −7.3
23	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 −10.33 45.36	0895 b23 76.35 47.16 −29.19	0904 c23 69.19 35.38 −21.9	0913 d23 62.03 23.58 −14.6
24	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 −7.75 34.02	0896 b24 71.59 58.95 −36.49	0905 c24 64.43 47.17 −29.2	0914 d24 57.27 35.38 −21.9
25	0672 U25 65.12 66.39 −13.06	0681 V25 69.88 54.6 −5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 −5.16 22.67	0897 b25 66.82 70.75 −43.79	0906 c25 59.67 58.96 −36.5	0915 d25 52.51 47.17 −29.2
26	0673 U26 65.97 68.57 −28.43	0682 V26 70.74 56.78 −21.13	0691 W26 75.5 44.98 −13.83	0700 X26 80.26 33.19 −6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 −2.58 11.33	0898 b26 62.06 82.54 −51.09	0907 c26 54.91 70.76 −43.8	0916 d26 47.74 58.96 −36.5
27	0674 U27 66.82 70.75 −43.79	0683 V27 71.59 58.95 −36.49	0692 W27 76.35 47.16 −29.19	0701 X27 81.11 35.37 −21.89	0710 Y27 85.87 23.57 −14.59	0719 Z27 90.64 11.78 −7.29	0728 a27 95.41 0.0 −0.01	0899 b27 57.3 94.33 −58.38	0908 c27 50.15 82.54 −51.09	0917 d27 42.98 70.75 −43.79

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53	0972 k01 0.03 0.0 −0.01	0981 l01 0.03 0.0 −0.01	0990 m01 0.03 0.0 −0.01	0999 n01 0.03 0.0 −0.01
02	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4	0974 k03 23.87 0.0 −0.01	0983 l03 23.87 0.0 −0.01	0992 m03 23.87 0.0 −0.01	1001 n03 23.87 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 58.56 −5.76 −1.69	0769 f05 47.72 0.0 −0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26	0976 k05 47.72 0.0 −0.01	0985 l05 47.72 0.0 −0.01	0994 m05 47.72 0.0 −0.01	1003 n05 47.72 0.0 −0.01
06	0761 e06 57.5 −11.53 −3.38	0770 f06 46.64 −5.76 −1.69	0779 g06 35.79 0.0 −0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 56.43 −17.3 −5.07	0771 f07 45.57 −11.53 −3.38	0780 g07 34.71 −5.76 −1.69	0789 h07 23.87 0.0 −0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13	0978 k07 71.57 0.0 −0.01	0987 l07 71.57 0.0 −0.01	0996 m07 71.57 0.0 −0.01	1005 n07 71.57 0.0 −0.01
08	0763 e08 55.36 −23.07 −6.77	0772 f08 44.51 −17.3 −5.07	0781 g08 33.65 −11.53 −3.38	0790 h08 22.79 −5.76 −1.69	0799 i08 11.94 0.0 −0.01	0808 j08 6.32 9.6 8.06	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 54.3 −28.83 −8.46	0773 f09 43.44 −23.07 −6.76	0782 g09 32.58 −17.3 −5.07	0791 h09 21.72 −11.53 −3.38	0800 i09 10.86 −5.76 −1.69	0809 j09 0.03 0.0 −0.01	0980 k09 95.41 0.0 −0.01	0989 l09 95.41 0.0 −0.01	0998 m09 95.41 0.0 −0.01	1007 n09 95.41 0.0 −0.01
10	0837 e10 94.36 −7.75 34.02	0846 f10 94.02 −10.33 45.36	0855 g10 93.68 −12.92 56.7	0864 h10 93.33 −15.5 68.05	0873 i10 92.99 −18.09 79.39	0882 j10 92.65 −20.67 90.73	1008 k10 0.03 0.0 −0.01	1024 l10 0.03 0.0 −0.01	1040 m10 0.03 0.0 −0.01	1056 n10 0.03 0.0 −0.01
11	0838 e11 82.79 −5.17 22.68	0847 f11 82.45 −7.75 34.03	0856 g11 82.11 −10.34 45.37	0865 h11 81.76 −12.92 56.71	0874 i11 81.42 −15.51 68.06	0883 j11 81.07 −18.09 79.39	1009 k11 6.38 0.0 −0.01	1025 l11 6.38 0.0 −0.01	1041 m11 6.38 0.0 −0.01	1057 n11 6.38 0.0 −0.01
12	0839 e12 71.21 −2.58 11.34	0848 f12 70.87 −5.17 22.68	0857 g12 70.52 −7.75 34.03	0866 h12 70.18 −10.34 45.37	0875 i12 69.84 −12.92 56.71	0884 j12 69.49 −15.5 68.05	1010 k12 12.74 0.0 −0.01	1026 l12 12.74 0.0 −0.01	1042 m12 12.74 0.0 −0.01	1058 n12 12.74 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 59.29 −2.58 11.34	0858 g13 58.94 −5.17 22.68	0867 h13 58.6 −7.75 34.03	0876 i13 58.26 −10.34 45.37	0885 j13 57.91 −12.92 56.7	1011 k13 19.1 0.0 −0.01	1027 l13 19.1 0.0 −0.01	1043 m13 19.1 0.0 −0.01	1059 n13 19.1 0.0 −0.01
14	0841 e14 51.5 9.5 −12.95	0850 f14 47.72 0.0 −0.01	0859 g14 47.36 −2.58 11.34	0868 h14 47.02 −5.17 22.68	0877 i14 46.67 −7.75 34.03	0886 j14 46.33 −10.33 45.36	1012 k14 25.46 0.0 −0.01	1028 l14 25.46 0.0 −0.01	1044 m14 25.46 0.0 −0.01	1060 n14 25.46 0.0 −0.01
15	0842 e15 43.38 19.01 −25.9	0851 f15 39.58 9.5 −12.95	0860 g15 35.79 0.0 −0.01	0869 h15 35.44 −2.58 11.34	0878 i15 35.09 −5.17 22.68	0887 j15 34.75 −7.75 34.02	1013 k15 31.82 0.0 −0.01	1029 l15 31.82 0.0 −0.01	1045 m15 31.82 0.0 −0.01	1061 n15 31.82 0.0 −0.01
16	0843 e16 35.25 28.52 −38.84	0852 f16 31.45 19.01 −25.9	0861 g16 27.65 9.5 −12.95	0870 h16 23.87 0.0 −0.01	0879 i16 23.51 −2.58 11.34	0888 j16 23.17 −5.16 22.67	1014 k16 38.18 0.0 −0.01	1030 l16 38.18 0.0 −0.01	1046 m16 38.18 0.0 −0.01	1062 n16 38.18 0.0 −0.01
17	0844 e17 27.12 38.03 −51.8	0853 f17 23.32 28.52 −38.84	0862 g17 19.53 19.01 −25.9	0871 h17 15.73 9.5 −12.95	0880 i17 11.94 0.0 −0.01	0889 j17 11.59 −2.58 11.33	1015 k17 44.54 0.0 −0.01	1031 l17 44.54 0.0 −0.01	1047 m17 44.54 0.0 −0.01	1063 n17 44.54 0.0 −0.01
18	0845 e18 19.0 47.52 −64.73	0854 f18 15.2 38.02 −51.78	0863 g18 11.4 28.51 −38.83	0872 h18 7.61 19.0 −25.88	0881 i18 3.81 9.49 −12.93	0890 j18 0.03 0.0 −0.01	1016 k18 50.9 0.0 −0.01	1032 l18 50.9 0.0 −0.01	1048 m18 50.9 0.0 −0.01	1064 n18 50.9 0.0 −0.01
19	0918 e19 90.98 −31.01 29.95	0927 f19 89.5 −41.36 39.94	0936 g19 88.03 −51.7 49.92	0945 h19 86.55 −62.04 59.91	0954 i19 85.08 −72.38 69.9	0963 j19 83.61 −82.72 79.88	1017 k19 57.26 0.0 −0.01	1033 l19 57.26 0.0 −0.01	1049 m19 57.26 0.0 −0.01	1065 n19 57.26 0.0 −0.01
20	0919 e20 80.53 −20.68 19.97	0928 f20 79.06 −31.02 29.96	0937 g20 77.59 −41.37 39.95	0946 h20 76.11 −51.71 49.93	0955 i20 74.64 −62.05 59.92	0964 j20 73.16 −72.38 69.9	1018 k20 63.62 0.0 −0.01	1034 l20 63.62 0.0 −0.01	1050 m20 63.62 0.0 −0.01	1066 n20 63.62 0.0 −0.01
21	0920 e21 70.08 −10.34 9.98	0929 f21 68.61 −20.68 19.97	0938 g21 67.13 −31.02 29.96	0947 h21 65.66 −41.37 39.95	0956 i21 64.19 −51.71 49.93	0965 j21 62.71 −62.04 59.91	1019 k21 69.98 0.0 −0.01	1035 l21 69.98 0.0 −0.01	1051 m21 69.98 0.0 −0.01	1067 n21 69.98 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 58.16 −10.34 9.98	0939 g22 56.68 −20.68 19.97	0948 h22 55.21 −31.02 29.96	0957 i22 53.74 −41.37 39.95	0966 j22 52.26 −51.7 49.92	1020 k22 76.34 0.0 −0.01	1036 l22 76.34 0.0 −0.01	1052 m22 76.34 0.0 −0.01	1068 n22 76.34 0.0 −0.01
23	0922 e23 54.87 11.79 −7.3	0931 f23 47.72 0.0 −0.01	0940 g23 46.23 −10.34 9.98	0949 h23 44.76 −20.68 19.97	0958 i23 43.28 −31.02 29.96	0967 j23 41.81 −41.36 39.94	1021 k23 82.7 0.0 −0.01	1037 l23 82.7 0.0 −0.01	1053 m23 82.7 0.0 −0.01	1069 n23 82.7 0.0 −0.01
24	0923 e24 50.11 23.58 −14.6	0932 f24 42.94 11.79 −7.3	0941 g24 35.79 0.0 −0.01	0950 h24 34.31 −10.34 9.98	0959 i24 32.83 −20.68 19.97	0968 j24 31.36 −31.01 29.95	1022 k24 89.06 0.0 −0.01	1038 l24 89.06 0.0 −0.01	1054 m24 89.06 0.0 −0.01	1070 n24 89.06 0.0 −0.01
25	0924 e25 45.34 35.38 −21.9	0933 f25 38.18 23.58 −14.6	0942 g25 31.02 11.79 −7.3	0951 h25 23.87 0.0 −0.01	0960 i25 22.38 −10.34 9.98	0969 j25 20.91 −20.67 19.96	1023 k25 95.41 0.0 −0.01	1039 l25 95.41 0.0 −0.01	1055 m25 95.41 0.0 −0.01	1071 n25 95.41 0.0 −0.01
26	0925 e26 40.58 47.17 −29.2	0934 f26 33.42 35.38 −21.9	0943 g26 26.26 23.58 −14.6	0952 h26 19.09 11.79 −7.3	0961 i26 11.94 0.0 −0.01	0970 j26 10.46 −10.33 9.97	1072 k26 0.03 0.0 −0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 −20.67 90.73	1078 n26 83.61 −82.72 79.88
27	0926 e27 35.82 58.95 −36.49	0935 f27 28.66 47.16 −29.19	0944 g27 21.5 35.37 −21.89	0953 h27 14.33 23.57 −14.59	0962 i27 7.17 11.78 −7.29	0971 j27 0.03 0.0 −0.01	1073 k27 95.41 0.0 −0.01	1075 l27 86.87 −46.14 −13.53	1077 m27 30.39 76.04 −103.57	1079 n27 57.3 94.33 −58.38

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 13/4, TLS00

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.03 0.0 −0.01	0009 B01 10.46 −10.33 9.97	0018 C01 20.91 −20.67 19.96	0027 D01 31.36 −31.01 29.95	0036 E01 41.81 −41.36 39.94	0045 F01 52.26 −51.7 49.92	0054 G01 62.71 −62.04 59.91	0063 H01 73.16 −72.38 69.9	0072 I01 83.61 −82.72 79.88	0081 J01 6.32 9.6 8.06
02	0001 A02 3.81 9.49 −12.93	0010 B02 10.86 −5.76 −1.69	0019 C02 21.32 −16.1 8.29	0028 D02 31.77 −26.44 18.28	0037 E02 42.22 −36.79 28.27	0046 F02 52.67 −47.13 38.25	0055 G02 63.12 −57.47 48.24	0064 H02 73.57 −67.81 58.23	0073 I02 84.01 −78.15 68.21	0082 J02 7.17 11.78 −7.29
03	0002 A03 7.61 19.0 −25.88	0011 B03 14.66 3.74 −14.64	0020 C03 21.72 −11.53 −3.38	0029 D03 32.17 −21.87 6.6	0038 E03 42.63 −32.21 16.59	0047 F03 53.08 −42.56 26.57	0056 G03 63.53 −52.9 36.56	0065 H03 73.98 −63.24 46.55	0074 I03 84.42 −73.57 56.53	0083 J03 10.97 21.29 −20.24
04	0003 A04 11.4 28.51 −38.83	0012 B04 18.46 13.25 −27.59	0021 C04 25.52 −2.02 −16.33	0030 D04 32.58 −17.3 −5.07	0039 E04 43.03 −27.64 4.91	0048 F04 53.48 −37.98 14.89	0057 G04 63.94 −48.32 24.88	0066 H04 74.39 −58.67 34.87	0075 I04 84.83 −69.0 44.85	0084 J04 14.77 30.79 −33.19
05	0004 A05 15.2 38.02 −51.78	0013 B05 22.26 22.75 −40.54	0022 C05 29.32 7.48 −29.28	0031 D05 36.38 −7.79 −18.02	0040 E05 43.44 −23.07 −6.76	0049 F05 53.89 −33.41 3.21	0058 G05 64.34 −43.75 13.2	0067 H05 74.79 −54.09 23.19	0076 I05 85.24 −64.43 33.17	0085 J05 18.56 40.3 −46.14
06	0005 A06 19.0 47.52 −64.73	0014 B06 26.05 32.26 −53.49	0023 C06 33.12 16.98 −42.23	0032 D06 40.18 1.71 −30.97	0041 E06 47.24 −13.56 −19.71	0050 F06 54.3 −28.83 −8.46	0059 G06 64.75 −39.18 1.52	0068 H06 75.2 −49.52 11.51	0077 I06 85.64 −59.85 21.49	0086 J06 22.36 49.81 −59.09
07	0006 A07 22.8 57.03 −77.68	0015 B07 29.85 41.77 −66.44	0024 C07 36.91 26.49 −55.18	0033 D07 43.97 11.22 −43.92	0042 E07 51.04 −4.05 −32.66	0051 F07 58.1 −19.33 −21.41	0060 G07 65.16 −34.6 −10.15	0069 H07 75.61 −44.95 −0.16	0078 I07 86.05 −55.28 9.81	0087 J07 26.16 59.32 −72.04
08	0007 A08 26.59 66.54 −90.63	0016 B08 33.65 51.28 −79.39	0025 C08 40.71 36.0 −68.13	0034 D08 47.77 20.72 −56.87	0043 E08 54.83 5.45 −45.61	0052 F08 61.89 −9.82 −34.36	0061 G08 68.96 −25.1 −23.1	0070 H08 76.02 −40.37 −11.84	0079 I08 86.46 −50.71 −1.86	0088 J08 29.96 68.82 −84.99
09	0008 A09 30.39 76.04 −103.57	0017 B09 37.44 60.78 −92.33	0026 C09 44.51 45.5 −81.07	0035 D09 51.57 30.22 −69.81	0044 E09 58.63 14.95 −58.55	0053 F09 65.69 −0.32 −47.3	0062 G09 72.75 −15.6 −36.04	0071 H09 79.81 −30.87 −24.78	0080 I09 86.87 −46.14 −13.53	0089 J09 33.75 78.32 −97.93
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 −7.75 34.02	0279 E10 45.2 −18.09 44.0	0288 F10 55.65 −28.43 53.99	0297 G10 66.1 −38.78 63.98	0306 H10 76.55 −49.12 73.97	0315 I10 87.0 −59.45 83.95	0324 J10 25.25 38.44 32.26
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 −5.17 22.68	0280 E11 45.54 −15.51 32.67	0289 F11 55.99 −25.85 42.66	0298 G11 66.45 −36.19 52.65	0307 H11 76.9 −46.54 62.63	0316 I11 87.34 −56.87 72.61	0325 J11 26.11 40.62 16.91
12	0245 A12 20.65 33.19 −6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 −2.58 11.34	0281 E12 45.89 −12.92 21.33	0290 F12 56.34 −23.27 31.31	0299 G12 66.79 −33.61 41.3	0308 H12 77.24 −43.95 51.29	0317 I12 87.68 −54.28 61.27	0326 J12 26.96 42.8 1.54
13	0246 A13 21.5 35.37 −21.89	0255 B13 26.26 23.58 −14.6	0264 C13 31.02 11.79 −7.3	0273 D13 35.79 0.0 −0.01	0282 E13 46.23 −10.34 9.98	0291 F13 56.68 −20.68 19.97	0300 G13 67.13 −31.02 29.96	0309 H13 77.59 −41.37 39.95	0318 I13 88.03 −51.7 49.92	0327 J13 27.81 44.98 −13.82
14	0247 A14 25.29 44.87 −34.84	0256 B14 30.05 33.09 −27.55	0265 C14 34.82 21.3 −20.25	0274 D14 39.58 9.5 −12.95	0283 E14 46.64 −5.76 −1.69	0292 F14 57.09 −16.11 8.29	0301 G14 67.54 −26.45 18.28	0310 H14 77.99 −36.79 28.27	0319 I14 88.44 −47.13 38.24	0328 J14 28.66 47.16 −29.19
15	0248 A15 29.09 54.38 −47.79	0257 B15 33.85 42.6 −40.5	0266 C15 38.61 30.8 −33.2	0275 D15 43.38 19.01 −25.9	0284 E15 50.44 3.73 −14.64	0293 F15 57.5 −11.53 −3.38	0302 G15 67.95 −21.88 6.6	0311 H15 78.4 −32.22 16.59	0320 I15 88.84 −42.55 26.56	0329 J15 32.46 56.67 −42.14
16	0249 A16 32.89 63.89 −60.74	0258 B16 37.65 52.11 −53.44	0267 C16 42.41 40.31 −46.15	0276 D16 47.17 28.52 −38.84	0285 E16 54.23 13.24 −27.59	0294 F16 61.3 −2.03 −16.33	0303 G16 68.36 −17.3 −5.07	0312 H16 78.81 −27.64 4.91	0321 I16 89.25 −37.98 14.88	0330 J16 36.25 66.18 −55.09
17	0250 A17 36.69 73.4 −73.69	0259 B17 41.45 61.61 −66.4	0268 C17 46.21 49.82 −59.1	0277 D17 50.97 38.03 −51.8	0286 E17 58.03 22.75 −40.54	0295 F17 65.09 7.47 −29.28	0304 G17 72.15 −7.79 −18.02	0313 H17 79.22 −23.07 −6.77	0322 I17 89.66 −33.4 3.2	0331 J17 40.05 75.68 −68.04
18	0251 A18 40.48 82.9 −86.63	0260 B18 45.24 71.11 −79.33	0269 C18 50.0 59.32 −72.03	0278 D18 54.76 47.52 −64.73	0287 E18 61.83 32.25 −53.48	0296 F18 68.89 16.97 −42.22	0305 G18 75.95 1.7 −30.96	0314 H18 83.01 −13.57 −19.7	0323 I18 90.07 −28.83 −8.46	0332 J18 43.85 85.18 −80.98
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 −3.3 64.77	0540 G19 69.49 −15.5 68.05	0549 H19 79.94 −25.85 78.04	0558 I19 90.39 −36.18 88.02	0567 J19 44.19 67.28 56.47
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 −0.72 53.44	0541 G20 69.84 −12.92 56.71	0550 H20 80.29 −23.26 66.7	0559 I20 90.73 −33.6 76.68	0568 J20 45.04 69.46 41.11
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 −10.34 45.37	0551 H21 80.63 −20.68 55.36	0560 I21 91.07 −31.01 65.34	0569 J21 45.89 71.64 25.74
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 −7.75 34.03	0552 H22 80.98 −18.09 44.01	0561 I22 91.42 −28.43 53.99	0570 J22 46.74 73.82 10.38
23	0490 A23 41.28 66.39 −13.05	0499 B23 46.04 54.6 −5.76	0508 C23 50.8 42.81 1.53	0517 D23 55.57 31.02 8.83	0526 E23 60.33 19.22 16.13	0535 F23 65.6 7.02 19.41	0544 G23 70.87 −5.17 22.68	0553 H23 81.32 −15.51 32.67	0562 I23 91.76 −25.84 42.65	0571 J23 47.59 76.0 −4.98
24	0491 A24 42.13 68.57 −28.42	0500 B24 46.89 56.78 −21.13	0509 C24 51.65 44.99 −13.83	0518 D24 56.42 33.2 −6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 −2.58 11.34	0554 H24 81.66 −12.92 21.33	0563 I24 92.11 −23.26 31.31	0572 J24 48.44 78.18 −20.35
25	0492 A25 42.98 70.75 −43.79	0501 B25 47.74 58.96 −36.5	0510 C25 52.51 47.17 −29.2	0519 D25 57.27 35.38 −21.9	0528 E25 62.03 23.58 −14.6	0537 F25 66.79 11.79 −7.3	0546 G25 71.57 0.0 −0.01	0555 H25 82.01 −10.34 9.98	0564 I25 92.45 −20.67 19.96	0573 J25 49.3 80.36 −35.72
26	0493 A26 46.78 80.26 −56.74	0502 B26 51.54 68.47 −49.45	0511 C26 56.3 56.68 −42.15	0520 D26 61.07 44.88 −34.85	0529 E26 65.83 33.09 −27.55	0538 F26 70.59 21.3 −20.25	0547 G26 75.35 9.5 −12.95	0556 H26 82.41 −5.76 −1.69	0565 I26 92.86 −16.1 8.28	0574 J26 50.15 82.54 −51.09
27	0494 A27 50.58 89.76 −69.68	0503 B27 55.33 77.97 −62.38	0512 C27 60.1 66.18 −55.08	0521 D27 64.86 54.38 −47.78	0530 E27 69.62 42.59 −40.48	0539 F27 74.38 30.8 −33.18	0548 G27 79.15 19.0 −25.88	0557 H27 86.21 3.73 −14.63	0566 I27 93.26 −11.53 −3.38	0575 J27 53.94 92.04 −64.03

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.59 −2.58 11.33	0099 L01 22.04 −12.92 21.32	0108 M01 32.49 −23.26 31.3	0117 N01 42.94 −33.61 41.29	0126 O01 53.39 −43.95 51.28	0135 P01 63.84 −54.29 61.27	0144 Q01 74.29 −64.63 71.25	0153 R01 84.74 −74.97 81.23	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4
02	0091 K02 11.94 0.0 −0.01	0100 L02 22.38 −10.34 9.98	0109 M02 32.83 −20.68 19.97	0118 N02 43.28 −31.02 29.96	0127 O02 53.74 −41.37 39.95	0136 P02 64.19 −51.71 49.93	0145 Q02 74.64 −62.05 59.92	0154 R02 85.08 −72.38 69.9	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06
03	0092 K03 15.73 9.5 −12.95	0101 L03 22.79 −5.76 −1.69	0110 M03 33.24 −16.11 8.29	0119 N03 43.69 −26.45 18.28	0128 O03 54.14 −36.79 28.27	0137 P03 64.59 −47.13 38.25	0146 Q03 75.05 −57.48 48.24	0155 R03 85.49 −67.81 58.22	0164 S03 14.33 23.57 −14.59	0173 T03 19.09 11.79 −7.3
04	0093 K04 19.53 19.01 −25.9	0102 L04 26.59 3.73 −14.64	0111 M04 33.65 −11.53 −3.38	0120 N04 44.1 −21.88 6.6	0129 O04 54.55 −32.22 16.59	0138 P04 65.0 −42.56 26.57	0147 Q04 75.45 −52.9 36.56	0156 R04 85.9 −63.24 46.54	0165 S04 18.13 33.08 −27.54	0174 T04 22.89 21.3 −20.25
05	0094 K05 23.32 28.52 −38.84	0103 L05 30.38 13.24 −27.59	0112 M05 37.44 −2.03 −16.33	0121 N05 44.51 −17.3 −5.07	0130 O05 54.96 −27.64 4.91	0139 P05 65.41 −37.99 14.89	0148 Q05 75.86 −48.33 24.88	0157 R05 86.3 −58.66 34.86	0166 S05 21.93 42.59 −40.49	0175 T05 26.69 30.8 −33.2
06	0095 K06 27.12 38.03 −51.8	0104 L06 34.18 22.75 −40.54	0113 M06 41.24 7.47 −29.28	0122 N06 48.3 −7.79 −18.02	0131 O06 55.36 −23.07 −6.77	0140 P06 65.82 −33.41 3.21	0149 Q06 76.27 −43.76 13.2	0158 R06 86.71 −54.09 23.18	0167 S06 25.73 52.1 −53.44	0176 T06 30.49 40.31 −46.15
07	0096 K07 30.92 47.53 −64.75	0105 L07 37.98 32.26 −53.49	0114 M07 45.04 16.98 −42.23	0123 N07 52.1 1.7 −30.97	0132 O07 59.16 −13.56 −19.71	0141 P07 66.22 −28.84 −8.46	0150 Q07 76.68 −39.18 1.52	0159 R07 87.12 −49.52 11.5	0168 S07 29.52 61.6 −66.39	0177 T07 34.28 49.82 −59.1
08	0097 K08 34.71 57.04 −77.69	0106 L08 41.78 41.76 −66.44	0115 M08 48.84 26.49 −55.18	0124 N08 55.9 11.21 −43.92	0133 O08 62.96 −4.06 −32.66	0142 P08 70.02 −19.33 −21.41	0151 Q08 77.08 −34.61 −10.15	0160 R08 87.53 −44.94 −0.17	0169 S08 33.32 71.11 −79.34	0178 T08 38.08 59.33 −72.05
09	0098 K09 38.51 66.54 −90.63	0107 L09 45.57 51.26 −79.38	0116 M09 52.63 35.99 −68.12	0125 N09 59.69 20.71 −56.86	0134 O09 66.75 5.43 −45.6	0143 P09 73.82 −9.83 −34.35	0152 Q09 80.88 −25.11 −23.09	0161 R09 87.93 −40.37 −11.84	0170 S09 37.12 80.61 −92.28	0179 T09 41.87 68.83 −84.98
10	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 −10.33 45.36	0369 O10 56.78 −20.68 55.35	0378 P10 67.23 −31.02 65.34	0387 Q10 77.68 −41.36 75.32	0396 R10 88.13 −51.69 85.3	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6
11	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 −7.75 34.03	0370 O11 57.13 −18.09 44.01	0379 P11 67.58 −28.43 54.0	0388 Q11 78.03 −38.78 63.99	0397 R11 88.47 −49.11 73.97	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27
12	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 −5.17 22.68	0371 O12 57.47 −15.51 32.67	0380 P12 67.92 −25.85 42.66	0389 Q12 78.37 −36.19 52.65	0398 R12 88.81 −46.53 62.62	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9
13	0336 K13 32.57 33.2 −6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 −2.58 11.34	0372 O13 57.81 −12.92 21.33	0381 P13 68.26 −23.27 31.31	0390 Q13 78.72 −33.61 41.3	0399 R13 89.16 −43.94 51.28	0408 S13 34.12 54.59 −5.75	0417 T13 38.88 42.81 1.53
14	0337 K14 33.42 35.38 −21.9	0346 L14 38.18 23.58 −14.6	0355 M14 42.94 11.79 −7.3	0364 N14 47.72 0.0 −0.01	0373 O14 58.16 −10.34 9.98	0382 P14 68.61 −20.68 19.97	0391 Q14 79.06 −31.02 29.96	0400 R14 89.5 −41.36 39.94	0409 S14 34.97 56.77 −21.12	0418 T14 39.73 44.99 −13.83
15	0338 K15 37.21 44.88 −34.85	0347 L15 41.98 33.09 −27.55	0356 M15 46.74 21.3 −20.25	0365 N15 51.5 9.5 −12.95	0374 O15 58.56 −5.76 −1.69	0383 P15 69.02 −16.11 8.29	0392 Q15 79.47 −26.45 18.28	0401 R15 89.91 −36.78 28.26	0410 S15 35.82 58.95 −36.49	0419 T15 40.58 47.17 −29.2
16	0339 K16 41.01 54.39 −47.8	0348 L16 45.78 42.6 −40.5	0357 M16 50.54 30.8 −33.2	0366 N16 55.3 19.01 −25.9	0375 O16 62.36 3.73 −14.64	0384 P16 69.42 −11.53 −3.38	0393 Q16 79.87 −21.88 6.6	0402 R16 90.32 −32.21 16.58	0411 S16 39.62 68.46 −49.44	0420 T16 44.38 56.68 −42.15
17	0340 K17 44.81 63.9 −60.75	0349 L17 49.57 52.11 −53.44	0358 M17 54.34 40.31 −46.15	0367 N17 59.1 28.52 −38.84	0376 O17 66.16 13.24 −27.59	0385 P17 73.22 −2.03 −16.33	0394 Q17 80.28 −17.3 −5.07	0403 R17 90.72 −27.64 4.9	0412 S17 43.42 77.97 −62.39	0421 T17 48.18 66.19 −55.1
18	0341 K18 48.6 73.4 −73.68	0350 L18 53.37 61.6 −66.38	0359 M18 58.13 49.81 −59.08	0368 N18 62.89 38.02 −51.78	0377 O18 69.95 22.74 −40.53	0386 P18 77.01 7.46 −29.27	0395 Q18 84.08 −7.8 −18.01	0404 R18 91.13 −23.07 −6.76	0413 S18 47.21 87.47 −75.33	0422 T18 51.97 75.68 −68.03
19	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 −5.89 76.12	0630 Q19 81.07 −18.09 79.39	0639 R19 91.52 −28.42 89.37	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8
20	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 −3.31 64.78	0631 Q20 81.42 −15.51 68.06	0640 R20 91.86 −25.84 78.04	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47
21	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 −0.72 53.44	0632 Q21 81.76 −12.92 56.71	0641 R21 92.2 −23.25 66.69	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1
22	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 −10.34 45.37	0642 R22 92.55 −20.67 55.35	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73
23	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 −7.75 34.03	0643 R23 92.89 −18.08 44.01	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36
24	0581 K24 53.2 66.4 −13.06	0590 L24 57.96 54.6 −5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 −5.17 22.68	0644 R24 93.24 −15.5 32.66	0653 S24 54.75 87.79 −12.29	0662 T24 59.51 76.0 −5.0
25	0582 K25 54.05 68.58 −28.43	0591 L25 58.82 56.78 −21.13	0600 M25 63.58 44.99 −13.83	0609 N25 68.34 33.2 −6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 −2.58 11.34	0645 R25 93.58 −12.91 21.32	0654 S25 55.6 89.97 −27.66	0663 T25 60.36 78.18 −20.36
26	0583 K26 54.91 70.76 −43.8	0592 L26 59.67 58.96 −36.5	0601 M26 64.43 47.17 −29.2	0610 N26 69.19 35.38 −21.9	0619 O26 73.96 23.58 −14.6	0628 P26 78.72 11.79 −7.3	0637 Q26 83.49 0.0 −0.01	0646 R26 93.92 −10.33 9.97	0655 S26 56.45 92.15 −43.03	0664 T26 61.21 80.36 −35.73
27	0584 K27 58.7 80.26 −56.73	0593 L27 63.46 68.46 −49.43	0602 M27 68.22 56.67 −42.13	0611 N27 72.99 44.88 −34.83	0620 O27 77.75 33.08 −27.53	0629 P27 82.51 21.29 −20.23	0638 Q27 87.27 9.49 −12.93	0647 R27 94.33 −5.76 −1.69	0656 S27 57.3 94.33 −58.38	0665 T27 62.06 82.54 −51.09

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 23.17 −5.16 22.67	0189 V01 33.62 −15.51 32.66	0198 W01 44.07 −25.85 42.65	0207 X01 54.52 −36.19 52.64	0216 Y01 64.97 −46.53 62.62	0225 Z01 75.42 −56.88 72.61	0234 a01 85.87 −67.21 82.59	0729 b01 95.41 0.0 −0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13
02	0181 U02 23.51 −2.58 11.34	0190 V02 33.96 −12.92 21.33	0199 W02 44.41 −23.27 31.31	0208 X02 54.87 −33.61 41.3	0217 Y02 65.32 −43.95 51.29	0226 Z02 75.77 −54.29 61.28	0235 a02 86.21 −64.63 71.26	0730 b02 94.33 −5.76 −1.69	0739 c02 83.49 0.0 −0.01	0748 d02 77.87 9.61 8.06
03	0182 U03 23.87 0.0 −0.01	0191 V03 34.31 −10.34 9.98	0200 W03 44.76 −20.68 19.97	0209 X03 55.21 −31.02 29.96	0218 Y03 65.66 −41.37 39.95	0227 Z03 76.11 −51.71 49.93	0236 a03 86.55 −62.04 59.91	0731 b03 93.26 −11.53 −3.38	0740 c03 82.41 −5.76 −1.69	0749 d03 71.57 0.0 −0.01
04	0183 U04 27.65 9.5 −12.95	0192 V04 34.71 −5.76 −1.69	0201 W04 45.17 −16.11 8.29	0210 X04 55.62 −26.45 18.28	0219 Y04 66.07 −36.79 28.27	0228 Z04 76.52 −47.13 38.25	0237 a04 86.96 −57.47 48.23	0732 b04 92.2 −17.3 −5.07	0741 c04 81.35 −11.53 −3.38	0750 d04 70.49 −5.76 −1.69
05	0184 U05 31.45 19.01 −25.9	0193 V05 38.51 3.73 −14.64	0202 W05 45.57 −11.53 −3.38	0211 X05 56.02 −21.88 6.6	0220 Y05 66.48 −32.22 16.59	0229 Z05 76.93 −42.56 26.57	0238 a05 87.37 −52.89 36.55	0733 b05 91.13 −23.07 −6.76	0742 c05 80.28 −17.3 −5.07	0751 d05 69.42 −11.53 −3.38
06	0185 U06 35.25 28.52 −38.84	0194 V06 42.31 13.24 −27.59	0203 W06 49.37 −2.03 −16.33	0212 X06 56.43 −17.3 −5.07	0221 Y06 66.88 −27.64 4.91	0230 Z06 77.33 −37.99 14.89	0239 a06 87.78 −48.32 24.87	0734 b06 90.07 −28.83 −8.46	0743 c06 79.22 −23.07 −6.77	0752 d06 68.36 −17.3 −5.07
07	0186 U07 39.05 38.03 −51.8	0195 V07 46.11 22.75 −40.54	0204 W07 53.17 7.47 −29.28	0213 X07 60.23 −7.79 −18.02	0222 Y07 67.29 −23.07 −6.77	0231 Z07 77.74 −33.41 3.21	0240 a07 88.18 −43.75 13.19	0735 b07 89.0 −34.6 −10.15	0744 c07 78.15 −28.84 −8.46	0753 d07 67.29 −23.07 −6.77
08	0187 U08 42.84 47.53 −64.75	0196 V08 49.9 32.26 −53.49	0205 W08 56.96 16.98 −42.23	0214 X08 64.03 1.7 −30.97	0223 Y08 71.09 −13.56 −19.71	0232 Z08 78.15 −28.84 −8.46	0241 a08 88.59 −39.17 1.51	0736 b08 87.93 −40.37 −11.84	0745 c08 77.08 −34.61 −10.15	0754 d08 66.22 −28.84 −8.46
09	0188 U09 46.64 57.03 −77.68	0197 V09 53.7 41.76 −66.43	0206 W09 60.76 26.48 −55.17	0215 X09 67.82 11.2 −43.91	0224 Y09 74.88 −4.06 −32.65	0233 Z09 81.94 −19.34 −21.4	0242 a09 89.0 −34.6 −10.15	0737 b09 86.87 −46.14 −13.53	0746 c09 76.02 −40.37 −11.84	0755 d09 65.16 −34.6 −10.15
10	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 −0.72 53.43	0450 X10 57.91 −12.92 56.7	0459 Y10 68.36 −23.26 66.69	0468 Z10 78.81 −33.6 76.68	0477 a10 89.26 −43.94 86.66	0810 b10 95.41 0.0 −0.01	0819 c10 95.05 −2.58 11.33	0828 d10 94.71 −5.16 22.67
11	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 −10.34 45.37	0460 Y11 68.71 −20.68 55.36	0469 Z11 79.16 −31.02 65.35	0478 a11 89.6 −41.35 75.32	0811 b11 87.27 9.49 −12.93	0820 c11 83.49 0.0 −0.01	0829 d11 83.14 −2.58 11.34
12	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 −7.75 34.03	0461 Y12 69.05 −18.09 44.01	0470 Z12 79.5 −28.43 54.0	0479 a12 89.94 −38.77 63.98	0812 b12 79.15 19.0 −25.88	0821 c12 75.35 9.5 −12.95	0830 d12 71.57 0.0 −0.01
13	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 −5.17 22.68	0462 Y13 69.39 −15.51 32.67	0471 Z13 79.85 −25.85 42.66	0480 a13 90.29 −36.18 52.64	0813 b13 71.02 28.51 −38.83	0822 c13 67.23 19.01 −25.9	0831 d13 63.43 9.5 −12.95
14	0427 U14 44.49 33.2 −6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 −2.58 11.34	0463 Y14 69.74 −12.92 21.33	0472 Z14 80.19 −23.27 31.31	0481 a14 90.63 −33.6 41.29	0814 b14 62.89 38.02 −51.78	0823 c14 59.1 28.52 −38.84	0832 d14 55.3 19.01 −25.9
15	0428 U15 45.34 35.38 −21.9	0437 V15 50.11 23.58 −14.6	0446 W15 54.87 11.79 −7.3	0455 X15 59.64 0.0 −0.01	0464 Y15 70.08 −10.34 9.98	0473 Z15 80.53 −20.68 19.97	0482 a15 90.98 −31.01 29.95	0815 b15 54.76 47.52 −64.73	0824 c15 50.97 38.03 −51.8	0833 d15 47.17 28.52 −38.84
16	0429 U16 49.14 44.88 −34.85	0438 V16 53.9 33.09 −27.55	0447 W16 58.67 21.3 −20.25	0456 X16 63.43 9.5 −12.95	0465 Y16 70.49 −5.76 −1.69	0474 Z16 80.94 −16.11 8.29	0483 a16 91.38 −26.44 18.27	0816 b16 46.64 57.03 −77.68	0825 c16 42.84 47.53 −64.75	0834 d16 39.05 38.03 −51.8
17	0430 U17 52.94 54.39 −47.8	0439 V17 57.7 42.6 −40.5	0448 W17 62.46 30.8 −33.2	0457 X17 67.23 19.01 −25.9	0466 Y17 74.29 3.73 −14.64	0475 Z17 81.35 −11.53 −3.38	0484 a17 91.79 −21.87 6.59	0817 b17 38.51 66.54 −90.63	0826 c17 34.71 57.04 −77.69	0835 d17 30.92 47.53 −64.75
18	0431 U18 56.73 63.89 −60.73	0440 V18 61.49 52.1 −53.43	0449 W18 66.26 40.3 −46.13	0458 X18 71.02 28.51 −38.83	0467 Y18 78.08 13.23 −27.58	0476 Z18 85.14 −2.03 −16.32	0485 a18 92.2 −17.3 −5.07	0818 b18 30.39 76.04 −103.57	0827 c18 26.59 66.54 −90.63	0836 d18 22.8 57.03 −77.68
19	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 −8.48 87.45	0720 a19 92.65 −20.67 90.73	0891 b19 95.41 0.0 −0.01	0900 c19 93.92 −10.33 9.97	0909 d19 92.45 −20.67 19.96
20	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 −5.9 76.12	0721 a20 92.99 −18.09 79.39	0892 b20 90.64 11.78 −7.29	0901 c20 83.49 0.0 −0.01	0910 d20 82.01 −10.34 9.98
21	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 −3.31 64.78	0722 a21 93.33 −15.5 68.05	0893 b21 85.87 23.57 −14.59	0902 c21 78.72 11.79 −7.3	0911 d21 71.57 0.0 −0.01
22	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 −0.73 53.43	0723 a22 93.68 −12.92 56.7	0894 b22 81.11 35.37 −21.89	0903 c22 73.96 23.58 −14.6	0912 d22 66.79 11.79 −7.3
23	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 −10.33 45.36	0895 b23 76.35 47.16 −29.19	0904 c23 69.19 35.38 −21.9	0913 d23 62.03 23.58 −14.6
24	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 −7.75 34.02	0896 b24 71.59 58.95 −36.49	0905 c24 64.43 47.17 −29.2	0914 d24 57.27 35.38 −21.9
25	0672 U25 65.12 66.39 −13.06	0681 V25 69.88 54.6 −5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 −5.16 22.67	0897 b25 66.82 70.75 −43.79	0906 c25 59.67 58.96 −36.5	0915 d25 52.51 47.17 −29.2
26	0673 U26 65.97 68.57 −28.43	0682 V26 70.74 56.78 −21.13	0691 W26 75.5 44.98 −13.83	0700 X26 80.26 33.19 −6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 −2.58 11.33	0898 b26 62.06 82.54 −51.09	0907 c26 54.91 70.76 −43.8	0916 d26 47.74 58.96 −36.5
27	0674 U27 66.82 70.75 −43.79	0683 V27 71.59 58.95 −36.49	0692 W27 76.35 47.16 −29.19	0701 X27 81.11 35.37 −21.89	0710 Y27 85.87 23.57 −14.59	0719 Z27 90.64 11.78 −7.29	0728 a27 95.41 0.0 −0.01	0899 b27 57.3 94.33 −58.38	0908 c27 50.15 82.54 −51.09	0917 d27 42.98 70.75 −43.79

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53	0972 k01 0.03 0.0 −0.01	0981 l01 0.03 0.0 −0.01	0990 m01 0.03 0.0 −0.01	0999 n01 0.03 0.0 −0.01
02	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4	0974 k03 23.87 0.0 −0.01	0983 l03 23.87 0.0 −0.01	0992 m03 23.87 0.0 −0.01	1001 n03 23.87 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 58.56 −5.76 −1.69	0769 f05 47.72 0.0 −0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26	0976 k05 47.72 0.0 −0.01	0985 l05 47.72 0.0 −0.01	0994 m05 47.72 0.0 −0.01	1003 n05 47.72 0.0 −0.01
06	0761 e06 57.5 −11.53 −3.38	0770 f06 46.64 −5.76 −1.69	0779 g06 35.79 0.0 −0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 56.43 −17.3 −5.07	0771 f07 45.57 −11.53 −3.38	0780 g07 34.71 −5.76 −1.69	0789 h07 23.87 0.0 −0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13	0978 k07 71.57 0.0 −0.01	0987 l07 71.57 0.0 −0.01	0996 m07 71.57 0.0 −0.01	1005 n07 71.57 0.0 −0.01
08	0763 e08 55.36 −23.07 −6.77	0772 f08 44.51 −17.3 −5.07	0781 g08 33.65 −11.53 −3.38	0790 h08 22.79 −5.76 −1.69	0799 i08 11.94 0.0 −0.01	0808 j08 6.32 9.6 8.06	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 54.3 −28.83 −8.46	0773 f09 43.44 −23.07 −6.76	0782 g09 32.58 −17.3 −5.07	0791 h09 21.72 −11.53 −3.38	0800 i09 10.86 −5.76 −1.69	0809 j09 0.03 0.0 −0.01	0980 k09 95.41 0.0 −0.01	0989 l09 95.41 0.0 −0.01	0998 m09 95.41 0.0 −0.01	1007 n09 95.41 0.0 −0.01
10	0837 e10 94.36 −7.75 34.02	0846 f10 94.02 −10.33 45.36	0855 g10 93.68 −12.92 56.7	0864 h10 93.33 −15.5 68.05	0873 i10 92.99 −18.09 79.39	0882 j10 92.65 −20.67 90.73	1008 k10 0.03 0.0 −0.01	1024 l10 0.03 0.0 −0.01	1040 m10 0.03 0.0 −0.01	1056 n10 0.03 0.0 −0.01
11	0838 e11 82.79 −5.17 22.68	0847 f11 82.45 −7.75 34.03	0856 g11 82.11 −10.34 45.37	0865 h11 81.76 −12.92 56.71	0874 i11 81.42 −15.51 68.06	0883 j11 81.07 −18.09 79.39	1009 k11 6.38 0.0 −0.01	1025 l11 6.38 0.0 −0.01	1041 m11 6.38 0.0 −0.01	1057 n11 6.38 0.0 −0.01
12	0839 e12 71.21 −2.58 11.34	0848 f12 70.87 −5.17 22.68	0857 g12 70.52 −7.75 34.03	0866 h12 70.18 −10.34 45.37	0875 i12 69.84 −12.92 56.71	0884 j12 69.49 −15.5 68.05	1010 k12 12.74 0.0 −0.01	1026 l12 12.74 0.0 −0.01	1042 m12 12.74 0.0 −0.01	1058 n12 12.74 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 59.29 −2.58 11.34	0858 g13 58.94 −5.17 22.68	0867 h13 58.6 −7.75 34.03	0876 i13 58.26 −10.34 45.37	0885 j13 57.91 −12.92 56.7	1011 k13 19.1 0.0 −0.01	1027 l13 19.1 0.0 −0.01	1043 m13 19.1 0.0 −0.01	1059 n13 19.1 0.0 −0.01
14	0841 e14 51.5 9.5 −12.95	0850 f14 47.72 0.0 −0.01	0859 g14 47.36 −2.58 11.34	0868 h14 47.02 −5.17 22.68	0877 i14 46.67 −7.75 34.03	0886 j14 46.33 −10.33 45.36	1012 k14 25.46 0.0 −0.01	1028 l14 25.46 0.0 −0.01	1044 m14 25.46 0.0 −0.01	1060 n14 25.46 0.0 −0.01
15	0842 e15 43.38 19.01 −25.9	0851 f15 39.58 9.5 −12.95	0860 g15 35.79 0.0 −0.01	0869 h15 35.44 −2.58 11.34	0878 i15 35.09 −5.17 22.68	0887 j15 34.75 −7.75 34.02	1013 k15 31.82 0.0 −0.01	1029 l15 31.82 0.0 −0.01	1045 m15 31.82 0.0 −0.01	1061 n15 31.82 0.0 −0.01
16	0843 e16 35.25 28.52 −38.84	0852 f16 31.45 19.01 −25.9	0861 g16 27.65 9.5 −12.95	0870 h16 23.87 0.0 −0.01	0879 i16 23.51 −2.58 11.34	0888 j16 23.17 −5.16 22.67	1014 k16 38.18 0.0 −0.01	1030 l16 38.18 0.0 −0.01	1046 m16 38.18 0.0 −0.01	1062 n16 38.18 0.0 −0.01
17	0844 e17 27.12 38.03 −51.8	0853 f17 23.32 28.52 −38.84	0862 g17 19.53 19.01 −25.9	0871 h17 15.73 9.5 −12.95	0880 i17 11.94 0.0 −0.01	0889 j17 11.59 −2.58 11.33	1015 k17 44.54 0.0 −0.01	1031 l17 44.54 0.0 −0.01	1047 m17 44.54 0.0 −0.01	1063 n17 44.54 0.0 −0.01
18	0845 e18 19.0 47.52 −64.73	0854 f18 15.2 38.02 −51.78	0863 g18 11.4 28.51 −38.83	0872 h18 7.61 19.0 −25.88	0881 i18 3.81 9.49 −12.93	0890 j18 0.03 0.0 −0.01	1016 k18 50.9 0.0 −0.01	1032 l18 50.9 0.0 −0.01	1048 m18 50.9 0.0 −0.01	1064 n18 50.9 0.0 −0.01
19	0918 e19 90.98 −31.01 29.95	0927 f19 89.5 −41.36 39.94	0936 g19 88.03 −51.7 49.92	0945 h19 86.55 −62.04 59.91	0954 i19 85.08 −72.38 69.9	0963 j19 83.61 −82.72 79.88	1017 k19 57.26 0.0 −0.01	1033 l19 57.26 0.0 −0.01	1049 m19 57.26 0.0 −0.01	1065 n19 57.26 0.0 −0.01
20	0919 e20 80.53 −20.68 19.97	0928 f20 79.06 −31.02 29.96	0937 g20 77.59 −41.37 39.95	0946 h20 76.11 −51.71 49.93	0955 i20 74.64 −62.05 59.92	0964 j20 73.16 −72.38 69.9	1018 k20 63.62 0.0 −0.01	1034 l20 63.62 0.0 −0.01	1050 m20 63.62 0.0 −0.01	1066 n20 63.62 0.0 −0.01
21	0920 e21 70.08 −10.34 9.98	0929 f21 68.61 −20.68 19.97	0938 g21 67.13 −31.02 29.96	0947 h21 65.66 −41.37 39.95	0956 i21 64.19 −51.71 49.93	0965 j21 62.71 −62.04 59.91	1019 k21 69.98 0.0 −0.01	1035 l21 69.98 0.0 −0.01	1051 m21 69.98 0.0 −0.01	1067 n21 69.98 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 58.16 −10.34 9.98	0939 g22 56.68 −20.68 19.97	0948 h22 55.21 −31.02 29.96	0957 i22 53.74 −41.37 39.95	0966 j22 52.26 −51.7 49.92	1020 k22 76.34 0.0 −0.01	1036 l22 76.34 0.0 −0.01	1052 m22 76.34 0.0 −0.01	1068 n22 76.34 0.0 −0.01
23	0922 e23 54.87 11.79 −7.3	0931 f23 47.72 0.0 −0.01	0940 g23 46.23 −10.34 9.98	0949 h23 44.76 −20.68 19.97	0958 i23 43.28 −31.02 29.96	0967 j23 41.81 −41.36 39.94	1021 k23 82.7 0.0 −0.01	1037 l23 82.7 0.0 −0.01	1053 m23 82.7 0.0 −0.01	1069 n23 82.7 0.0 −0.01
24	0923 e24 50.11 23.58 −14.6	0932 f24 42.94 11.79 −7.3	0941 g24 35.79 0.0 −0.01	0950 h24 34.31 −10.34 9.98	0959 i24 32.83 −20.68 19.97	0968 j24 31.36 −31.01 29.95	1022 k24 89.06 0.0 −0.01	1038 l24 89.06 0.0 −0.01	1054 m24 89.06 0.0 −0.01	1070 n24 89.06 0.0 −0.01
25	0924 e25 45.34 35.38 −21.9	0933 f25 38.18 23.58 −14.6	0942 g25 31.02 11.79 −7.3	0951 h25 23.87 0.0 −0.01	0960 i25 22.38 −10.34 9.98	0969 j25 20.91 −20.67 19.96	1023 k25 95.41 0.0 −0.01	1039 l25 95.41 0.0 −0.01	1055 m25 95.41 0.0 −0.01	1071 n25 95.41 0.0 −0.01
26	0925 e26 40.58 47.17 −29.2	0934 f26 33.42 35.38 −21.9	0943 g26 26.26 23.58 −14.6	0952 h26 19.09 11.79 −7.3	0961 i26 11.94 0.0 −0.01	0970 j26 10.46 −10.33 9.97	1072 k26 0.03 0.0 −0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 −20.67 90.73	1078 n26 83.61 −82.72 79.88
27	0926 e27 35.82 58.95 −36.49	0935 f27 28.66 47.16 −29.19	0944 g27 21.5 35.37 −21.89	0953 h27 14.33 23.57 −14.59	0962 i27 7.17 11.78 −7.29	0971 j27 0.03 0.0 −0.01	1073 k27 95.41 0.0 −0.01	1075 l27 86.87 −46.14 −13.53	1077 m27 30.39 76.04 −103.57	1079 n27 57.3 94.33 −58.38

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 14/4, TLS06

www.ps.bam.de/ZE50/10L/L50E00NP.PS/.PDF, Page 15/28; TLS11; transfer and output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.03 0.0 −0.01	0009 B01 10.46 −10.33 9.97	0018 C01 20.91 −20.67 19.96	0027 D01 31.36 −31.01 29.95	0036 E01 41.81 −41.36 39.94	0045 F01 52.26 −51.7 49.92	0054 G01 62.71 −62.04 59.91	0063 H01 73.16 −72.38 69.9	0072 I01 83.61 −82.72 79.88	0081 J01 6.32 9.6 8.06
02	0001 A02 3.81 9.49 −12.93	0010 B02 10.86 −5.76 −1.69	0019 C02 21.32 −16.1 8.29	0028 D02 31.77 −26.44 18.28	0037 E02 42.22 −36.79 28.27	0046 F02 52.67 −47.13 38.25	0055 G02 63.12 −57.47 48.24	0064 H02 73.57 −67.81 58.23	0073 I02 84.01 −78.15 68.21	0082 J02 7.17 11.78 −7.29
03	0002 A03 7.61 19.0 −25.88	0011 B03 14.66 3.74 −14.64	0020 C03 21.72 −11.53 −3.38	0029 D03 32.17 −21.87 6.6	0038 E03 42.63 −32.21 16.59	0047 F03 53.08 −42.56 26.57	0056 G03 63.53 −52.9 36.56	0065 H03 73.98 −63.24 46.55	0074 I03 84.42 −73.57 56.53	0083 J03 10.97 21.29 −20.24
04	0003 A04 11.4 28.51 −38.83	0012 B04 18.46 13.25 −27.59	0021 C04 25.52 −2.02 −16.33	0030 D04 32.58 −17.3 −5.07	0039 E04 43.03 −27.64 4.91	0048 F04 53.48 −37.98 14.89	0057 G04 63.94 −48.32 24.88	0066 H04 74.39 −58.67 34.87	0075 I04 84.83 −69.0 44.85	0084 J04 14.77 30.79 −33.19
05	0004 A05 15.2 38.02 −51.78	0013 B05 22.26 22.75 −40.54	0022 C05 29.32 7.48 −29.28	0031 D05 36.38 −7.79 −18.02	0040 E05 43.44 −23.07 −6.76	0049 F05 53.89 −33.41 3.21	0058 G05 64.34 −43.75 13.2	0067 H05 74.79 −54.09 23.19	0076 I05 85.24 −64.43 33.17	0085 J05 18.56 40.3 −46.14
06	0005 A06 19.0 47.52 −64.73	0014 B06 26.05 32.26 −53.49	0023 C06 33.12 16.98 −42.23	0032 D06 40.18 1.71 −30.97	0041 E06 47.24 −13.56 −19.71	0050 F06 54.3 −28.83 −8.46	0059 G06 64.75 −39.18 1.52	0068 H06 75.2 −49.52 11.51	0077 I06 85.64 −59.85 21.49	0086 J06 22.36 49.81 −59.09
07	0006 A07 22.8 57.03 −77.68	0015 B07 29.85 41.77 −66.44	0024 C07 36.91 26.49 −55.18	0033 D07 43.97 11.22 −43.92	0042 E07 51.04 −4.05 −32.66	0051 F07 58.1 −19.33 −21.41	0060 G07 65.16 −34.6 −10.15	0069 H07 75.61 −44.95 −0.16	0078 I07 86.05 −55.28 9.81	0087 J07 26.16 59.32 −72.04
08	0007 A08 26.59 66.54 −90.63	0016 B08 33.65 51.28 −79.39	0025 C08 40.71 36.0 −68.13	0034 D08 47.77 20.72 −56.87	0043 E08 54.83 5.45 −45.61	0052 F08 61.89 −9.82 −34.36	0061 G08 68.96 −25.1 −23.1	0070 H08 76.02 −40.37 −11.84	0079 I08 86.46 −50.71 −1.86	0088 J08 29.96 68.82 −84.99
09	0008 A09 30.39 76.04 −103.57	0017 B09 37.44 60.78 −92.33	0026 C09 44.51 45.5 −81.07	0035 D09 51.57 30.22 −69.81	0044 E09 58.63 14.95 −58.55	0053 F09 65.69 −0.32 −47.3	0062 G09 72.75 −15.6 −36.04	0071 H09 79.81 −30.87 −24.78	0080 I09 86.87 −46.14 −13.53	0089 J09 33.75 78.32 −97.93
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 −7.75 34.02	0279 E10 45.2 −18.09 44.0	0288 F10 55.65 −28.43 53.99	0297 G10 66.1 −38.78 63.98	0306 H10 76.55 −49.12 73.97	0315 I10 87.0 −59.45 83.95	0324 J10 25.25 38.44 32.26
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 −5.17 22.68	0280 E11 45.54 −15.51 32.67	0289 F11 55.99 −25.85 42.66	0298 G11 66.45 −36.19 52.65	0307 H11 76.9 −46.54 62.63	0316 I11 87.34 −56.87 72.61	0325 J11 26.11 40.62 16.91
12	0245 A12 20.65 33.19 −6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 −2.58 11.34	0281 E12 45.89 −12.92 21.33	0290 F12 56.34 −23.27 31.31	0299 G12 66.79 −33.61 41.3	0308 H12 77.24 −43.95 51.29	0317 I12 87.68 −54.28 61.27	0326 J12 26.96 42.8 1.54
13	0246 A13 21.5 35.37 −21.89	0255 B13 26.26 23.58 −14.6	0264 C13 31.02 11.79 −7.3	0273 D13 35.79 0.0 −0.01	0282 E13 46.23 −10.34 9.98	0291 F13 56.68 −20.68 19.97	0300 G13 67.13 −31.02 29.96	0309 H13 77.59 −41.37 39.95	0318 I13 88.03 −51.7 49.92	0327 J13 27.81 44.98 −13.82
14	0247 A14 25.29 44.87 −34.84	0256 B14 30.05 33.09 −27.55	0265 C14 34.82 21.3 −20.25	0274 D14 39.58 9.5 −12.95	0283 E14 46.64 −5.76 −1.69	0292 F14 57.09 −16.11 8.29	0301 G14 67.54 −26.45 18.28	0310 H14 77.99 −36.79 28.27	0319 I14 88.44 −47.13 38.24	0328 J14 28.66 47.16 −29.19
15	0248 A15 29.09 54.38 −47.79	0257 B15 33.85 42.6 −40.5	0266 C15 38.61 30.8 −33.2	0275 D15 43.38 19.01 −25.9	0284 E15 50.44 3.73 −14.64	0293 F15 57.5 −11.53 −3.38	0302 G15 67.95 −21.88 6.6	0311 H15 78.4 −32.22 16.59	0320 I15 88.84 −42.55 26.56	0329 J15 32.46 56.67 −42.14
16	0249 A16 32.89 63.89 −60.74	0258 B16 37.65 52.11 −53.44	0267 C16 42.41 40.31 −46.15	0276 D16 47.17 28.52 −38.84	0285 E16 54.23 13.24 −27.59	0294 F16 61.3 −2.03 −16.33	0303 G16 68.36 −17.3 −5.07	0312 H16 78.81 −27.64 4.91	0321 I16 89.25 −37.98 14.88	0330 J16 36.25 66.18 −55.09
17	0250 A17 36.69 73.4 −73.69	0259 B17 41.45 61.61 −66.4	0268 C17 46.21 49.82 −59.1	0277 D17 50.97 38.03 −51.8	0286 E17 58.03 22.75 −40.54	0295 F17 65.09 7.47 −29.28	0304 G17 72.15 −7.79 −18.02	0313 H17 79.22 −23.07 −6.77	0322 I17 89.66 −33.4 3.2	0331 J17 40.05 75.68 −68.04
18	0251 A18 40.48 82.9 −86.63	0260 B18 45.24 71.11 −79.33	0269 C18 50.0 59.32 −72.03	0278 D18 54.76 47.52 −64.73	0287 E18 61.83 32.25 −53.48	0296 F18 68.89 16.97 −42.22	0305 G18 75.95 1.7 −30.96	0314 H18 83.01 −13.57 −19.7	0323 I18 90.07 −28.83 −8.46	0332 J18 43.85 85.18 −80.98
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 −3.3 64.77	0540 G19 69.49 −15.5 68.05	0549 H19 79.94 −25.85 78.04	0558 I19 90.39 −36.18 88.02	0567 J19 44.19 67.28 56.47
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 −0.72 53.44	0541 G20 69.84 −12.92 56.71	0550 H20 80.29 −23.26 66.7	0559 I20 90.73 −33.6 76.68	0568 J20 45.04 69.46 41.11
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 −10.34 45.37	0551 H21 80.63 −20.68 55.36	0560 I21 91.07 −31.01 65.34	0569 J21 45.89 71.64 25.74
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 −7.75 34.03	0552 H22 80.98 −18.09 44.01	0561 I22 91.42 −28.43 53.99	0570 J22 46.74 73.82 10.38
23	0490 A23 41.28 66.39 −13.05	0499 B23 46.04 54.6 −5.76	0508 C23 50.8 42.81 1.53	0517 D23 55.57 31.02 8.83	0526 E23 60.33 19.22 16.13	0535 F23 65.6 7.02 19.41	0544 G23 70.87 −5.17 22.68	0553 H23 81.32 −15.51 32.67	0562 I23 91.76 −25.84 42.65	0571 J23 47.59 76.0 −4.98
24	0491 A24 42.13 68.57 −28.42	0500 B24 46.89 56.78 −21.13	0509 C24 51.65 44.99 −13.83	0518 D24 56.42 33.2 −6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 −2.58 11.34	0554 H24 81.66 −12.92 21.33	0563 I24 92.11 −23.26 31.31	0572 J24 48.44 78.18 −20.35
25	0492 A25 42.98 70.75 −43.79	0501 B25 47.74 58.96 −36.5	0510 C25 52.51 47.17 −29.2	0519 D25 57.27 35.38 −21.9	0528 E25 62.03 23.58 −14.6	0537 F25 66.79 11.79 −7.3	0546 G25 71.57 0.0 −0.01	0555 H25 82.01 −10.34 9.98	0564 I25 92.45 −20.67 19.96	0573 J25 49.3 80.36 −35.72
26	0493 A26 46.78 80.26 −56.74	0502 B26 51.54 68.47 −49.45	0511 C26 56.3 56.68 −42.15	0520 D26 61.07 44.88 −34.85	0529 E26 65.83 33.09 −27.55	0538 F26 70.59 21.3 −20.25	0547 G26 75.35 9.5 −12.95	0556 H26 82.41 −5.76 −1.69	0565 I26 92.86 −16.1 8.28	0574 J26 50.15 82.54 −51.09
27	0494 A27 50.58 89.76 −69.68	0503 B27 55.33 77.97 −62.38	0512 C27 60.1 66.18 −55.08	0521 D27 64.86 54.38 −47.78	0530 E27 69.62 42.59 −40.48	0539 F27 74.38 30.8 −33.18	0548 G27 79.15 19.0 −25.88	0557 H27 86.21 3.73 −14.63	0566 I27 93.26 −11.53 −3.38	0575 J27 53.94 92.04 −64.03

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.59 −2.58 11.33	0099 L01 22.04 −12.92 21.32	0108 M01 32.49 −23.26 31.3	0117 N01 42.94 −33.61 41.29	0126 O01 53.39 −43.95 51.28	0135 P01 63.84 −54.29 61.27	0144 Q01 74.29 −64.63 71.25	0153 R01 84.74 −74.97 81.23	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4
02	0091 K02 11.94 0.0 −0.01	0100 L02 22.38 −10.34 9.98	0109 M02 32.83 −20.68 19.97	0118 N02 43.28 −31.02 29.96	0127 O02 53.74 −41.37 39.95	0136 P02 64.19 −51.71 49.93	0145 Q02 74.64 −62.05 59.92	0154 R02 85.08 −72.38 69.9	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06
03	0092 K03 15.73 9.5 −12.95	0101 L03 22.79 −5.76 −1.69	0110 M03 33.24 −16.11 8.29	0119 N03 43.69 −26.45 18.28	0128 O03 54.14 −36.79 28.27	0137 P03 64.59 −47.13 38.25	0146 Q03 75.05 −57.48 48.24	0155 R03 85.49 −67.81 58.22	0164 S03 14.33 23.57 −14.59	0173 T03 19.09 11.79 −7.3
04	0093 K04 19.53 19.01 −25.9	0102 L04 26.59 3.73 −14.64	0111 M04 33.65 −11.53 −3.38	0120 N04 44.1 −21.88 6.6	0129 O04 54.55 −32.22 16.59	0138 P04 65.0 −42.56 26.57	0147 Q04 75.45 −52.9 36.56	0156 R04 85.9 −63.24 46.54	0165 S04 18.13 33.08 −27.54	0174 T04 22.89 21.3 −20.25
05	0094 K05 23.32 28.52 −38.84	0103 L05 30.38 13.24 −27.59	0112 M05 37.44 −2.03 −16.33	0121 N05 44.51 −17.3 −5.07	0130 O05 54.96 −27.64 4.91	0139 P05 65.41 −37.99 14.89	0148 Q05 75.86 −48.33 24.88	0157 R05 86.3 −58.66 34.86	0166 S05 21.93 42.59 −40.49	0175 T05 26.69 30.8 −33.2
06	0095 K06 27.12 38.03 −51.8	0104 L06 34.18 22.75 −40.54	0113 M06 41.24 7.47 −29.28	0122 N06 48.3 −7.79 −18.02	0131 O06 55.36 −23.07 −6.77	0140 P06 65.82 −33.41 3.21	0149 Q06 76.27 −43.76 13.2	0158 R06 86.71 −54.09 23.18	0167 S06 25.73 52.1 −53.44	0176 T06 30.49 40.31 −46.15
07	0096 K07 30.92 47.53 −64.75	0105 L07 37.98 32.26 −53.49	0114 M07 45.04 16.98 −42.23	0123 N07 52.1 1.7 −30.97	0132 O07 59.16 −13.56 −19.71	0141 P07 66.22 −28.84 −8.46	0150 Q07 76.68 −39.18 1.52	0159 R07 87.12 −49.52 11.5	0168 S07 29.52 61.6 −66.39	0177 T07 34.28 49.82 −59.1
08	0097 K08 34.71 57.04 −77.69	0106 L08 41.78 41.76 −66.44	0115 M08 48.84 26.49 −55.18	0124 N08 55.9 11.21 −43.92	0133 O08 62.96 −4.06 −32.66	0142 P08 70.02 −19.33 −21.41	0151 Q08 77.08 −34.61 −10.15	0160 R08 87.53 −44.94 −0.17	0169 S08 33.32 71.11 −79.34	0178 T08 38.08 59.33 −72.05
09	0098 K09 38.51 66.54 −90.63	0107 L09 45.57 51.26 −79.38	0116 M09 52.63 35.99 −68.12	0125 N09 59.69 20.71 −56.86	0134 O09 66.75 5.43 −45.6	0143 P09 73.82 −9.83 −34.35	0152 Q09 80.88 −25.11 −23.09	0161 R09 87.93 −40.37 −11.84	0170 S09 37.12 80.61 −92.28	0179 T09 41.87 68.83 −84.98
10	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 −10.33 45.36	0369 O10 56.78 −20.68 55.35	0378 P10 67.23 −31.02 65.34	0387 Q10 77.68 −41.36 75.32	0396 R10 88.13 −51.69 85.3	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6
11	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 −7.75 34.03	0370 O11 57.13 −18.09 44.01	0379 P11 67.58 −28.43 54.0	0388 Q11 78.03 −38.78 63.99	0397 R11 88.47 −49.11 73.97	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27
12	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 −5.17 22.68	0371 O12 57.47 −15.51 32.67	0380 P12 67.92 −25.85 42.66	0389 Q12 78.37 −36.19 52.65	0398 R12 88.81 −46.53 62.62	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9
13	0336 K13 32.57 33.2 −6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 −2.58 11.34	0372 O13 57.81 −12.92 21.33	0381 P13 68.26 −23.27 31.31	0390 Q13 78.72 −33.61 41.3	0399 R13 89.16 −43.94 51.28	0408 S13 34.12 54.59 −5.75	0417 T13 38.88 42.81 1.53
14	0337 K14 33.42 35.38 −21.9	0346 L14 38.18 23.58 −14.6	0355 M14 42.94 11.79 −7.3	0364 N14 47.72 0.0 −0.01	0373 O14 58.16 −10.34 9.98	0382 P14 68.61 −20.68 19.97	0391 Q14 79.06 −31.02 29.96	0400 R14 89.5 −41.36 39.94	0409 S14 34.97 56.77 −21.12	0418 T14 39.73 44.99 −13.83
15	0338 K15 37.21 44.88 −34.85	0347 L15 41.98 33.09 −27.55	0356 M15 46.74 21.3 −20.25	0365 N15 51.5 9.5 −12.95	0374 O15 58.56 −5.76 −1.69	0383 P15 69.02 −16.11 8.29	0392 Q15 79.47 −26.45 18.28	0401 R15 89.91 −36.78 28.26	0410 S15 35.82 58.95 −36.49	0419 T15 40.58 47.17 −29.2
16	0339 K16 41.01 54.39 −47.8	0348 L16 45.78 42.6 −40.5	0357 M16 50.54 30.8 −33.2	0366 N16 55.3 19.01 −25.9	0375 O16 62.36 3.73 −14.64	0384 P16 69.42 −11.53 −3.38	0393 Q16 79.87 −21.88 6.6	0402 R16 90.32 −32.21 16.58	0411 S16 39.62 68.46 −49.44	0420 T16 44.38 56.68 −42.15
17	0340 K17 44.81 63.9 −60.75	0349 L17 49.57 52.11 −53.44	0358 M17 54.34 40.31 −46.15	0367 N17 59.1 28.52 −38.84	0376 O17 66.16 13.24 −27.59	0385 P17 73.22 −2.03 −16.33	0394 Q17 80.28 −17.3 −5.07	0403 R17 90.72 −27.64 4.9	0412 S17 43.42 77.97 −62.39	0421 T17 48.18 66.19 −55.1
18	0341 K18 48.6 73.4 −73.68	0350 L18 53.37 61.6 −66.38	0359 M18 58.13 49.81 −59.08	0368 N18 62.89 38.02 −51.78	0377 O18 69.95 22.74 −40.53	0386 P18 77.01 7.46 −29.27	0395 Q18 84.08 −7.8 −18.01	0404 R18 91.13 −23.07 −6.76	0413 S18 47.21 87.47 −75.33	0422 T18 51.97 75.68 −68.03
19	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 −5.89 76.12	0630 Q19 81.07 −18.09 79.39	0639 R19 91.52 −28.42 89.37	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8
20	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 −3.31 64.78	0631 Q20 81.42 −15.51 68.06	0640 R20 91.86 −25.84 78.04	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47
21	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 −0.72 53.44	0632 Q21 81.76 −12.92 56.71	0641 R21 92.2 −23.25 66.69	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1
22	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 −10.34 45.37	0642 R22 92.55 −20.67 55.35	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73
23	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 −7.75 34.03	0643 R23 92.89 −18.08 44.01	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36
24	0581 K24 53.2 66.4 −13.06	0590 L24 57.96 54.6 −5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 −5.17 22.68	0644 R24 93.24 −15.5 32.66	0653 S24 54.75 87.79 −12.29	0662 T24 59.51 76.0 −5.0
25	0582 K25 54.05 68.58 −28.43	0591 L25 58.82 56.78 −21.13	0600 M25 63.58 44.99 −13.83	0609 N25 68.34 33.2 −6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 −2.58 11.34	0645 R25 93.58 −12.91 21.32	0654 S25 55.6 89.97 −27.66	0663 T25 60.36 78.18 −20.36
26	0583 K26 54.91 70.76 −43.8	0592 L26 59.67 58.96 −36.5	0601 M26 64.43 47.17 −29.2	0610 N26 69.19 35.38 −21.9	0619 O26 73.96 23.58 −14.6	0628 P26 78.72 11.79 −7.3	0637 Q26 83.49 0.0 −0.01	0646 R26 93.92 −10.33 9.97	0655 S26 56.45 92.15 −43.03	0664 T26 61.21 80.36 −35.73
27	0584 K27 58.7 80.26 −56.73	0593 L27 63.46 68.46 −49.43	0602 M27 68.22 56.67 −42.13	0611 N27 72.99 44.88 −34.83	0620 O27 77.75 33.08 −27.53	0629 P27 82.51 21.29 −20.23	0638 Q27 87.27 9.49 −12.93	0647 R27 94.33 −5.76 −1.69	0656 S27 57.3 94.33 −58.38	0665 T27 62.06 82.54 −51.09

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 23.17 −5.16 22.67	0189 V01 33.62 −15.51 32.66	0198 W01 44.07 −25.85 42.65	0207 X01 54.52 −36.19 52.64	0216 Y01 64.97 −46.53 62.62	0225 Z01 75.42 −56.88 72.61	0234 a01 85.87 −67.21 82.59	0729 b01 95.41 0.0 −0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13
02	0181 U02 23.51 −2.58 11.34	0190 V02 33.96 −12.92 21.33	0199 W02 44.41 −23.27 31.31	0208 X02 54.87 −33.61 41.3	0217 Y02 65.32 −43.95 51.29	0226 Z02 75.77 −54.29 61.28	0235 a02 86.21 −64.63 71.26	0730 b02 94.33 −5.76 −1.69	0739 c02 83.49 0.0 −0.01	0748 d02 77.87 9.61 8.06
03	0182 U03 23.87 0.0 −0.01	0191 V03 34.31 −10.34 9.98	0200 W03 44.76 −20.68 19.97	0209 X03 55.21 −31.02 29.96	0218 Y03 65.66 −41.37 39.95	0227 Z03 76.11 −51.71 49.93	0236 a03 86.55 −62.04 59.91	0731 b03 93.26 −11.53 −3.38	0740 c03 82.41 −5.76 −1.69	0749 d03 71.57 0.0 −0.01
04	0183 U04 27.65 9.5 −12.95	0192 V04 34.71 −5.76 −1.69	0201 W04 45.17 −16.11 8.29	0210 X04 55.62 −26.45 18.28	0219 Y04 66.07 −36.79 28.27	0228 Z04 76.52 −47.13 38.25	0237 a04 86.96 −57.47 48.23	0732 b04 92.2 −17.3 −5.07	0741 c04 81.35 −11.53 −3.38	0750 d04 70.49 −5.76 −1.69
05	0184 U05 31.45 19.01 −25.9	0193 V05 38.51 3.73 −14.64	0202 W05 45.57 −11.53 −3.38	0211 X05 56.02 −21.88 6.6	0220 Y05 66.48 −32.22 16.59	0229 Z05 76.93 −42.56 26.57	0238 a05 87.37 −52.89 36.55	0733 b05 91.13 −23.07 −6.76	0742 c05 80.28 −17.3 −5.07	0751 d05 69.42 −11.53 −3.38
06	0185 U06 35.25 28.52 −38.84	0194 V06 42.31 13.24 −27.59	0203 W06 49.37 −2.03 −16.33	0212 X06 56.43 −17.3 −5.07	0221 Y06 66.88 −27.64 4.91	0230 Z06 77.33 −37.99 14.89	0239 a06 87.78 −48.32 24.87	0734 b06 90.07 −28.83 −8.46	0743 c06 79.22 −23.07 −6.77	0752 d06 68.36 −17.3 −5.07
07	0186 U07 39.05 38.03 −51.8	0195 V07 46.11 22.75 −40.54	0204 W07 53.17 7.47 −29.28	0213 X07 60.23 −7.79 −18.02	0222 Y07 67.29 −23.07 −6.77	0231 Z07 77.74 −33.41 3.21	0240 a07 88.18 −43.75 13.19	0735 b07 89.0 −34.6 −10.15	0744 c07 78.15 −28.84 −8.46	0753 d07 67.29 −23.07 −6.77
08	0187 U08 42.84 47.53 −64.75	0196 V08 49.9 32.26 −53.49	0205 W08 56.96 16.98 −42.23	0214 X08 64.03 1.7 −30.97	0223 Y08 71.09 −13.56 −19.71	0232 Z08 78.15 −28.84 −8.46	0241 a08 88.59 −39.17 1.51	0736 b08 87.93 −40.37 −11.84	0745 c08 77.08 −34.61 −10.15	0754 d08 66.22 −28.84 −8.46
09	0188 U09 46.64 57.03 −77.68	0197 V09 53.7 41.76 −66.43	0206 W09 60.76 26.48 −55.17	0215 X09 67.82 11.2 −43.91	0224 Y09 74.88 −4.06 −32.65	0233 Z09 81.94 −19.34 −21.4	0242 a09 89.0 −34.6 −10.15	0737 b09 86.87 −46.14 −13.53	0746 c09 76.02 −40.37 −11.84	0755 d09 65.16 −34.6 −10.15
10	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 −0.72 53.43	0450 X10 57.91 −12.92 56.7	0459 Y10 68.36 −23.26 66.69	0468 Z10 78.81 −33.6 76.68	0477 a10 89.26 −43.94 86.66	0810 b10 95.41 0.0 −0.01	0819 c10 95.05 −2.58 11.33	0828 d10 94.71 −5.16 22.67
11	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 −10.34 45.37	0460 Y11 68.71 −20.68 55.36	0469 Z11 79.16 −31.02 65.35	0478 a11 89.6 −41.35 75.32	0811 b11 87.27 9.49 −12.93	0820 c11 83.49 0.0 −0.01	0829 d11 83.14 −2.58 11.34
12	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 −7.75 34.03	0461 Y12 69.05 −18.09 44.01	0470 Z12 79.5 −28.43 54.0	0479 a12 89.94 −38.77 63.98	0812 b12 79.15 19.0 −25.88	0821 c12 75.35 9.5 −12.95	0830 d12 71.57 0.0 −0.01
13	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 −5.17 22.68	0462 Y13 69.39 −15.51 32.67	0471 Z13 79.85 −25.85 42.66	0480 a13 90.29 −36.18 52.64	0813 b13 71.02 28.51 −38.83	0822 c13 67.23 19.01 −25.9	0831 d13 63.43 9.5 −12.95
14	0427 U14 44.49 33.2 −6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 −2.58 11.34	0463 Y14 69.74 −12.92 21.33	0472 Z14 80.19 −23.27 31.31	0481 a14 90.63 −33.6 41.29	0814 b14 62.89 38.02 −51.78	0823 c14 59.1 28.52 −38.84	0832 d14 55.3 19.01 −25.9
15	0428 U15 45.34 35.38 −21.9	0437 V15 50.11 23.58 −14.6	0446 W15 54.87 11.79 −7.3	0455 X15 59.64 0.0 −0.01	0464 Y15 70.08 −10.34 9.98	0473 Z15 80.53 −20.68 19.97	0482 a15 90.98 −31.01 29.95	0815 b15 54.76 47.52 −64.73	0824 c15 50.97 38.03 −51.8	0833 d15 47.17 28.52 −38.84
16	0429 U16 49.14 44.88 −34.85	0438 V16 53.9 33.09 −27.55	0447 W16 58.67 21.3 −20.25	0456 X16 63.43 9.5 −12.95	0465 Y16 70.49 −5.76 −1.69	0474 Z16 80.94 −16.11 8.29	0483 a16 91.38 −26.44 18.27	0816 b16 46.64 57.03 −77.68	0825 c16 42.84 47.53 −64.75	0834 d16 39.05 38.03 −51.8
17	0430 U17 52.94 54.39 −47.8	0439 V17 57.7 42.6 −40.5	0448 W17 62.46 30.8 −33.2	0457 X17 67.23 19.01 −25.9	0466 Y17 74.29 3.73 −14.64	0475 Z17 81.35 −11.53 −3.38	0484 a17 91.79 −21.87 6.59	0817 b17 38.51 66.54 −90.63	0826 c17 34.71 57.04 −77.69	0835 d17 30.92 47.53 −64.75
18	0431 U18 56.73 63.89 −60.73	0440 V18 61.49 52.1 −53.43	0449 W18 66.26 40.3 −46.13	0458 X18 71.02 28.51 −38.83	0467 Y18 78.08 13.23 −27.58	0476 Z18 85.14 −2.03 −16.32	0485 a18 92.2 −17.3 −5.07	0818 b18 30.39 76.04 −103.57	0827 c18 26.59 66.54 −90.63	0836 d18 22.8 57.03 −77.68
19	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 −8.48 87.45	0720 a19 92.65 −20.67 90.73	0891 b19 95.41 0.0 −0.01	0900 c19 93.92 −10.33 9.97	0909 d19 92.45 −20.67 19.96
20	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 −5.9 76.12	0721 a20 92.99 −18.09 79.39	0892 b20 90.64 11.78 −7.29	0901 c20 83.49 0.0 −0.01	0910 d20 82.01 −10.34 9.98
21	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 −3.31 64.78	0722 a21 93.33 −15.5 68.05	0893 b21 85.87 23.57 −14.59	0902 c21 78.72 11.79 −7.3	0911 d21 71.57 0.0 −0.01
22	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 −0.73 53.43	0723 a22 93.68 −12.92 56.7	0894 b22 81.11 35.37 −21.89	0903 c22 73.96 23.58 −14.6	0912 d22 66.79 11.79 −7.3
23	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 −10.33 45.36	0895 b23 76.35 47.16 −29.19	0904 c23 69.19 35.38 −21.9	0913 d23 62.03 23.58 −14.6
24	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 −7.75 34.02	0896 b24 71.59 58.95 −36.49	0905 c24 64.43 47.17 −29.2	0914 d24 57.27 35.38 −21.9
25	0672 U25 65.12 66.39 −13.06	0681 V25 69.88 54.6 −5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 −5.16 22.67	0897 b25 66.82 70.75 −43.79	0906 c25 59.67 58.96 −36.5	0915 d25 52.51 47.17 −29.2
26	0673 U26 65.97 68.57 −28.43	0682 V26 70.74 56.78 −21.13	0691 W26 75.5 44.98 −13.83	0700 X26 80.26 33.19 −6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 −2.58 11.33	0898 b26 62.06 82.54 −51.09	0907 c26 54.91 70.76 −43.8	0916 d26 47.74 58.96 −36.5
27	0674 U27 66.82 70.75 −43.79	0683 V27 71.59 58.95 −36.49	0692 W27 76.35 47.16 −29.19	0701 X27 81.11 35.37 −21.89	0710 Y27 85.87 23.57 −14.59	0719 Z27 90.64 11.78 −7.29	0728 a27 95.41 0.0 −0.01	0899 b27 57.3 94.33 −58.38	0908 c27 50.15 82.54 −51.09	0917 d27 42.98 70.75 −43.79

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53	0972 k01 0.03 0.0 −0.01	0981 l01 0.03 0.0 −0.01	0990 m01 0.03 0.0 −0.01	0999 n01 0.03 0.0 −0.01
02	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4	0974 k03 23.87 0.0 −0.01	0983 l03 23.87 0.0 −0.01	0992 m03 23.87 0.0 −0.01	1001 n03 23.87 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 58.56 −5.76 −1.69	0769 f05 47.72 0.0 −0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26	0976 k05 47.72 0.0 −0.01	0985 l05 47.72 0.0 −0.01	0994 m05 47.72 0.0 −0.01	1003 n05 47.72 0.0 −0.01
06	0761 e06 57.5 −11.53 −3.38	0770 f06 46.64 −5.76 −1.69	0779 g06 35.79 0.0 −0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 56.43 −17.3 −5.07	0771 f07 45.57 −11.53 −3.38	0780 g07 34.71 −5.76 −1.69	0789 h07 23.87 0.0 −0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13	0978 k07 71.57 0.0 −0.01	0987 l07 71.57 0.0 −0.01	0996 m07 71.57 0.0 −0.01	1005 n07 71.57 0.0 −0.01
08	0763 e08 55.36 −23.07 −6.77	0772 f08 44.51 −17.3 −5.07	0781 g08 33.65 −11.53 −3.38	0790 h08 22.79 −5.76 −1.69	0799 i08 11.94 0.0 −0.01	0808 j08 6.32 9.6 8.06	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 54.3 −28.83 −8.46	0773 f09 43.44 −23.07 −6.76	0782 g09 32.58 −17.3 −5.07	0791 h09 21.72 −11.53 −3.38	0800 i09 10.86 −5.76 −1.69	0809 j09 0.03 0.0 −0.01	0980 k09 95.41 0.0 −0.01	0989 l09 95.41 0.0 −0.01	0998 m09 95.41 0.0 −0.01	1007 n09 95.41 0.0 −0.01
10	0837 e10 94.36 −7.75 34.02	0846 f10 94.02 −10.33 45.36	0855 g10 93.68 −12.92 56.7	0864 h10 93.33 −15.5 68.05	0873 i10 92.99 −18.09 79.39	0882 j10 92.65 −20.67 90.73	1008 k10 0.03 0.0 −0.01	1024 l10 0.03 0.0 −0.01	1040 m10 0.03 0.0 −0.01	1056 n10 0.03 0.0 −0.01
11	0838 e11 82.79 −5.17 22.68	0847 f11 82.45 −7.75 34.03	0856 g11 82.11 −10.34 45.37	0865 h11 81.76 −12.92 56.71	0874 i11 81.42 −15.51 68.06	0883 j11 81.07 −18.09 79.39	1009 k11 6.38 0.0 −0.01	1025 l11 6.38 0.0 −0.01	1041 m11 6.38 0.0 −0.01	1057 n11 6.38 0.0 −0.01
12	0839 e12 71.21 −2.58 11.34	0848 f12 70.87 −5.17 22.68	0857 g12 70.52 −7.75 34.03	0866 h12 70.18 −10.34 45.37	0875 i12 69.84 −12.92 56.71	0884 j12 69.49 −15.5 68.05	1010 k12 12.74 0.0 −0.01	1026 l12 12.74 0.0 −0.01	1042 m12 12.74 0.0 −0.01	1058 n12 12.74 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 59.29 −2.58 11.34	0858 g13 58.94 −5.17 22.68	0867 h13 58.6 −7.75 34.03	0876 i13 58.26 −10.34 45.37	0885 j13 57.91 −12.92 56.7	1011 k13 19.1 0.0 −0.01	1027 l13 19.1 0.0 −0.01	1043 m13 19.1 0.0 −0.01	1059 n13 19.1 0.0 −0.01
14	0841 e14 51.5 9.5 −12.95	0850 f14 47.72 0.0 −0.01	0859 g14 47.36 −2.58 11.34	0868 h14 47.02 −5.17 22.68	0877 i14 46.67 −7.75 34.03	0886 j14 46.33 −10.33 45.36	1012 k14 25.46 0.0 −0.01	1028 l14 25.46 0.0 −0.01	1044 m14 25.46 0.0 −0.01	1060 n14 25.46 0.0 −0.01
15	0842 e15 43.38 19.01 −25.9	0851 f15 39.58 9.5 −12.95	0860 g15 35.79 0.0 −0.01	0869 h15 35.44 −2.58 11.34	0878 i15 35.09 −5.17 22.68	0887 j15 34.75 −7.75 34.02	1013 k15 31.82 0.0 −0.01	1029 l15 31.82 0.0 −0.01	1045 m15 31.82 0.0 −0.01	1061 n15 31.82 0.0 −0.01
16	0843 e16 35.25 28.52 −38.84	0852 f16 31.45 19.01 −25.9	0861 g16 27.65 9.5 −12.95	0870 h16 23.87 0.0 −0.01	0879 i16 23.51 −2.58 11.34	0888 j16 23.17 −5.16 22.67	1014 k16 38.18 0.0 −0.01	1030 l16 38.18 0.0 −0.01	1046 m16 38.18 0.0 −0.01	1062 n16 38.18 0.0 −0.01
17	0844 e17 27.12 38.03 −51.8	0853 f17 23.32 28.52 −38.84	0862 g17 19.53 19.01 −25.9	0871 h17 15.73 9.5 −12.95	0880 i17 11.94 0.0 −0.01	0889 j17 11.59 −2.58 11.33	1015 k17 44.54 0.0 −0.01	1031 l17 44.54 0.0 −0.01	1047 m17 44.54 0.0 −0.01	1063 n17 44.54 0.0 −0.01
18	0845 e18 19.0 47.52 −64.73	0854 f18 15.2 38.02 −51.78	0863 g18 11.4 28.51 −38.83	0872 h18 7.61 19.0 −25.88	0881 i18 3.81 9.49 −12.93	0890 j18 0.03 0.0 −0.01	1016 k18 50.9 0.0 −0.01	1032 l18 50.9 0.0 −0.01	1048 m18 50.9 0.0 −0.01	1064 n18 50.9 0.0 −0.01
19	0918 e19 90.98 −31.01 29.95	0927 f19 89.5 −41.36 39.94	0936 g19 88.03 −51.7 49.92	0945 h19 86.55 −62.04 59.91	0954 i19 85.08 −72.38 69.9	0963 j19 83.61 −82.72 79.88	1017 k19 57.26 0.0 −0.01	1033 l19 57.26 0.0 −0.01	1049 m19 57.26 0.0 −0.01	1065 n19 57.26 0.0 −0.01
20	0919 e20 80.53 −20.68 19.97	0928 f20 79.06 −31.02 29.96	0937 g20 77.59 −41.37 39.95	0946 h20 76.11 −51.71 49.93	0955 i20 74.64 −62.05 59.92	0964 j20 73.16 −72.38 69.9	1018 k20 63.62 0.0 −0.01	1034 l20 63.62 0.0 −0.01	1050 m20 63.62 0.0 −0.01	1066 n20 63.62 0.0 −0.01
21	0920 e21 70.08 −10.34 9.98	0929 f21 68.61 −20.68 19.97	0938 g21 67.13 −31.02 29.96	0947 h21 65.66 −41.37 39.95	0956 i21 64.19 −51.71 49.93	0965 j21 62.71 −62.04 59.91	1019 k21 69.98 0.0 −0.01	1035 l21 69.98 0.0 −0.01	1051 m21 69.98 0.0 −0.01	1067 n21 69.98 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 58.16 −10.34 9.98	0939 g22 56.68 −20.68 19.97	0948 h22 55.21 −31.02 29.96	0957 i22 53.74 −41.37 39.95	0966 j22 52.26 −51.7 49.92	1020 k22 76.34 0.0 −0.01	1036 l22 76.34 0.0 −0.01	1052 m22 76.34 0.0 −0.01	1068 n22 76.34 0.0 −0.01
23	0922 e23 54.87 11.79 −7.3	0931 f23 47.72 0.0 −0.01	0940 g23 46.23 −10.34 9.98	0949 h23 44.76 −20.68 19.97	0958 i23 43.28 −31.02 29.96	0967 j23 41.81 −41.36 39.94	1021 k23 82.7 0.0 −0.01	1037 l23 82.7 0.0 −0.01	1053 m23 82.7 0.0 −0.01	1069 n23 82.7 0.0 −0.01
24	0923 e24 50.11 23.58 −14.6	0932 f24 42.94 11.79 −7.3	0941 g24 35.79 0.0 −0.01	0950 h24 34.31 −10.34 9.98	0959 i24 32.83 −20.68 19.97	0968 j24 31.36 −31.01 29.95	1022 k24 89.06 0.0 −0.01	1038 l24 89.06 0.0 −0.01	1054 m24 89.06 0.0 −0.01	1070 n24 89.06 0.0 −0.01
25	0924 e25 45.34 35.38 −21.9	0933 f25 38.18 23.58 −14.6	0942 g25 31.02 11.79 −7.3	0951 h25 23.87 0.0 −0.01	0960 i25 22.38 −10.34 9.98	0969 j25 20.91 −20.67 19.96	1023 k25 95.41 0.0 −0.01	1039 l25 95.41 0.0 −0.01	1055 m25 95.41 0.0 −0.01	1071 n25 95.41 0.0 −0.01
26	0925 e26 40.58 47.17 −29.2	0934 f26 33.42 35.38 −21.9	0943 g26 26.26 23.58 −14.6	0952 h26 19.09 11.79 −7.3	0961 i26 11.94 0.0 −0.01	0970 j26 10.46 −10.33 9.97	1072 k26 0.03 0.0 −0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 −20.67 90.73	1078 n26 83.61 −82.72 79.88
27	0926 e27 35.82 58.95 −36.49	0935 f27 28.66 47.16 −29.19	0944 g27 21.5 35.37 −21.89	0953 h27 14.33 23.57 −14.59	0962 i27 7.17 11.78 −7.29	0971 j27 0.03 0.0 −0.01	1073 k27 95.41 0.0 −0.01	1075 l27 86.87 −46.14 −13.53	1077 m27 30.39 76.04 −103.57	1079 n27 57.3 94.33 −58.38

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 15/4, TLS11

BAM-test chart ZE50; Colorimetric systems, Page 15/28 input: *000n / w / nnn0 / rgb set...*
40x27=1080 colours with data: *rgb / w / cmy0 / 000n / LAB** output: *−>cmy0* setcmykcolor*

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

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application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta

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02	0001 A02 3.81 9.49 -12.93	0010 B02 10.86 -5.76 -1.69	0019 C02 21.32 -16.1 8.29	0028 D02 31.77 -26.44 18.28	0037 E02 42.22 -36.79 28.27	0046 F02 52.67 -47.13 38.25	0055 G02 63.12 -57.47 48.24	0064 H02 73.57 -67.81 58.23	0073 I02 84.01 -78.15 68.21
03	0002 A03 7.61 19.0 -25.88	0011 B03 14.66 3.74 -14.64	0020 C03 21.72 -11.53 -3.38	0029 D03 32.17 -21.87 6.6	0038 E03 42.63 -32.21 16.59	0047 F03 53.08 -42.56 26.57	0056 G03 63.53 -52.9 36.56	0065 H03 73.98 -63.24 46.55	0074 I03 84.42 -73.57 56.53
04	0003 A04 11.4 28.51 -38.83	0012 B04 18.46 13.25 -27.59	0021 C04 25.52 -2.02 -16.33	0030 D04 32.58 -17.3 -5.07	0039 E04 43.03 -27.64 4.91	0048 F04 53.48 -37.98 14.89	0057 G04 63.94 -48.32 24.88	0066 H04 74.39 -58.67 34.87	0075 I04 84.83 -69.0 44.85
05	0004 A05 15.2 38.02 -51.78	0013 B05 22.26 22.75 -40.54	0022 C05 29.32 7.48 -29.28	0031 D05 36.38 -7.79 -18.02	0040 E05 43.44 -23.07 -6.76	0049 F05 53.89 -33.41 3.21	0058 G05 64.34 -43.75 13.2	0067 H05 74.79 -54.09 23.19	0076 I05 85.24 -64.43 33.17
06	0005 A06 19.0 47.52 -64.73	0014 B06 26.05 32.26 -53.49	0023 C06 33.12 16.98 -42.23	0032 D06 40.18 1.71 -30.97	0041 E06 47.24 -13.56 -19.71	0050 F06 54.3 -28.83 -8.46	0059 G06 64.75 -39.18 1.52	0068 H06 75.2 -49.52 11.51	0077 I06 85.64 -59.85 21.49
07	0006 A07 22.8 57.03 -77.68	0015 B07 29.85 41.77 -66.44	0024 C07 36.91 26.49 -55.18	0033 D07 43.97 11.22 -43.92	0042 E07 51.04 -4.05 -32.66	0051 F07 58.1 -19.33 -21.41	0060 G07 65.16 -34.6 -10.15	0069 H07 75.61 -44.95 -0.16	0078 I07 86.05 -55.28 9.81
08	0007 A08 26.59 66.54 -90.63	0016 B08 33.65 51.28 -79.39	0025 C08 40.71 36.0 -68.13	0034 D08 47.77 20.72 -56.87	0043 E08 54.83 5.45 -45.61	0052 F08 61.89 -9.82 -34.36	0061 G08 68.96 -25.1 -23.1	0070 H08 76.02 -40.37 -11.84	0079 I08 86.46 -50.71 -1.86
09	0008 A09 30.39 76.04 -103.57	0017 B09 37.44 60.78 -92.33	0026 C09 44.51 45.5 -81.07	0035 D09 51.57 30.22 -69.81	0044 E09 58.63 14.95 -58.55	0053 F09 65.69 -0.32 -47.3	0062 G09 72.75 -15.6 -36.04	0071 H09 79.81 -30.87 -24.78	0080 I09 86.87 -46.14 -13.53
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 -7.75 34.02	0279 E10 45.2 -18.09 44.0	0288 F10 55.65 -28.43 53.99	0297 G10 66.1 -38.78 63.98	0306 H10 76.55 -49.12 73.97	0315 I10 87.0 -59.45 83.95
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 -5.17 22.68	0280 E11 45.54 -15.51 32.67	0289 F11 55.99 -25.85 42.66	0298 G11 66.45 -36.19 52.65	0307 H11 76.9 -46.54 62.63	0316 I11 87.34 -56.87 72.61
12	0245 A12 20.65 33.19 -6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 -2.58 11.34	0281 E12 45.89 -12.92 21.33	0290 F12 56.34 -23.27 31.31	0299 G12 66.79 -33.61 41.3	0308 H12 77.24 -43.95 51.29	0317 I12 87.68 -54.28 61.27
13	0246 A13 21.5 35.37 -21.89	0255 B13 26.26 23.58 -14.6	0264 C13 31.02 11.79 -7.3	0273 D13 35.79 0.0 -0.01	0282 E13 46.23 -10.34 9.98	0291 F13 56.68 -20.68 19.97	0300 G13 67.13 -31.02 29.96	0309 H13 77.59 -41.37 39.95	0318 I13 88.03 -51.7 49.92
14	0247 A14 25.29 44.87 -34.84	0256 B14 30.05 33.09 -27.55	0265 C14 34.82 21.3 -20.25	0274 D14 39.58 9.5 -12.95	0283 E14 46.64 -5.76 -1.69	0292 F14 57.09 -16.11 8.29	0301 G14 67.54 -26.45 18.28	0310 H14 77.99 -36.79 28.27	0319 I14 88.44 -47.13 38.24
15	0248 A15 29.09 54.38 -47.79	0257 B15 33.85 42.6 -40.5	0266 C15 38.61 30.8 -33.2	0275 D15 43.38 19.01 -25.9	0284 E15 50.44 3.73 -14.64	0293 F15 57.5 -11.53 -3.38	0302 G15 67.95 -21.88 6.6	0311 H15 78.4 -32.22 16.59	0320 I15 88.84 -42.55 26.56
16	0249 A16 32.89 63.89 -60.74	0258 B16 37.65 52.11 -53.44	0267 C16 42.41 40.31 -46.15	0276 D16 47.17 28.52 -38.84	0285 E16 54.23 13.24 -27.59	0294 F16 61.3 -2.03 -16.33	0303 G16 68.36 -17.3 -5.07	0312 H16 78.81 -27.64 4.91	0321 I16 89.25 -37.98 14.88
17	0250 A17 36.69 73.4 -73.69	0259 B17 41.45 61.61 -66.4	0268 C17 46.21 49.82 -59.1	0277 D17 50.97 38.03 -51.8	0286 E17 58.03 22.75 -40.54	0295 F17 65.09 7.47 -29.28	0304 G17 72.15 -7.79 -18.02	0313 H17 79.22 -23.07 -6.77	0322 I17 89.66 -33.4 3.2
18	0251 A18 40.48 82.9 -86.63	0260 B18 45.24 71.11 -79.33	0269 C18 50.0 59.32 -72.03	0278 D18 54.76 47.52 -64.73	0287 E18 61.83 32.25 -53.48	0296 F18 68.89 16.97 -42.22	0305 G18 75.95 1.7 -30.96	0314 H18 83.01 -13.57 -19.7	0323 I18 90.07 -28.83 -8.46
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 -3.3 64.77	0540 G19 69.49 -15.5 68.05	0549 H19 79.94 -25.85 78.04	0558 I19 90.39 -36.18 88.02
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 -0.72 53.44	0541 G20 69.84 -12.92 56.71	0550 H20 80.29 -23.26 66.7	0559 I20 90.73 -33.6 76.68
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 -10.34 45.37	0551 H21 80.63 -20.68 55.36	0560 I21 91.07 -31.01 65.34
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 -7.75 34.03	0552 H22 80.98 -18.09 44.01	0561 I22 91.42 -28.43 53.99
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24	0491 A24 42.13 68.57 -28.42	0500 B24 46.89 56.78 -21.13	0509 C24 51.65 44.99 -13.83	0518 D24 56.42 33.2 -6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 -2.58 11.34	0554 H24 81.66 -12.92 21.33	0563 I24 92.11 -23.26 31.31
25	0492 A25 42.98 70.75 -43.79	0501 B25 47.74 58.96 -36.5	0510 C25 52.51 47.17 -29.2	0519 D25 57.27 35.38 -21.9	0528 E25 62.03 23.58 -14.6	0537 F25 66.79 11.79 -7.3	0546 G25 71.57 0.0 -0.01	0555 H25 82.01 -10.34 9.98	0564 I25 92.45 -20.67 19.96
26	0493 A26 46.78 80.26 -56.74	0502 B26 51.54 68.47 -49.45	0511 C26 56.3 56.68 -42.15	0520 D26 61.07 44.88 -34.85	0529 E26 65.83 33.09 -27.55	0538 F26 70.59 21.3 -20.25	0547 G26 75.35 9.5 -12.95	0556 H26 82.41 -5.76 -1.69	0565 I26 92.86 -16.1 8.28
27	0494 A27 50.58 89.76 -69.68	0503 B27 55.33 77.97 -62.38	0512 C27 60.1 66.18 -55.08	0521 D27 64.86 54.38 -47.78	0530 E27 69.62 42.59 -40.48	0539 F27 74.38 30.8 -33.18	0548 G27 79.15 19.0 -25.88	0557 H27 86.21 3.73 -14.63	0566 I27 93.26 -11.53 -3.38

	J	K	L	M	N	O	P	Q	R
01	0081 J01 6.32 9.6 8.06	0090 K01 11.59 -2.58 11.33	0099 L01 22.04 -12.92 21.32	0108 M01 32.49 -23.26 31.3	0117 N01 42.94 -33.61 41.29	0126 O01 53.39 -43.95 51.28	0135 P01 63.84 -54.29 61.27	0144 Q01 74.29 -64.63 71.25	0153 R01 84.74 -74.97 81.23
02	0082 J02 7.17 11.78 -7.29	0091 K02 11.94 0.0 -0.01	0100 L02 22.38 -10.34 9.98	0109 M02 32.83 -20.68 19.97	0118 N02 43.28 -31.02 29.96	0127 O02 53.74 -41.37 39.95	0136 P02 64.19 -51.71 49.93	0145 Q02 74.64 -62.05 59.92	0154 R02 85.08 -72.38 69.9
03	0083 J03 10.97 21.29 -20.24	0092 K03 15.73 9.5 -12.95	0101 L03 22.79 -5.76 -1.69	0110 M03 33.24 -16.11 8.29	0119 N03 43.69 -26.45 18.28	0128 O03 54.14 -36.79 28.27	0137 P03 64.59 -47.13 38.25	0146 Q03 75.05 -57.48 48.24	0155 R03 85.49 -67.81 58.22
04	0084 J04 14.77 30.79 -33.19	0093 K04 19.53 19.01 -25.9	0102 L04 26.59 3.73 -14.64	0111 M04 33.65 -11.53 -3.38	0120 N04 44.1 -21.88 6.6	0129 O04 54.55 -32.22 16.59	0138 P04 65.0 -42.56 26.57	0147 Q04 75.45 -52.9 36.56	0156 R04 85.9 -63.24 46.54
05	0085 J05 18.56 40.3 -46.14	0094 K05 23.32 28.52 -38.84	0103 L05 30.38 13.24 -27.59	0112 M05 37.44 -2.03 -16.33	0121 N05 44.51 -17.3 -5.07	0130 O05 54.96 -27.64 4.91	0139 P05 65.41 -37.99 14.89	0148 Q05 75.86 -48.33 24.88	0157 R05 86.3 -58.66 34.86
06	0086 J06 22.36 49.81 -59.09	0095 K06 27.12 38.03 -51.8	0104 L06 34.18 22.75 -40.54	0113 M06 41.24 7.47 -29.28	0122 N06 48.3 -7.79 -18.02	0131 O06 55.36 -23.07 -6.77	0140 P06 65.82 -33.41 3.21	0149 Q06 76.27 -43.76 13.2	0158 R06 86.71 -54.09 23.18
07	0087 J07 26.16 59.32 -72.04	0096 K07 30.92 47.53 -64.75	0105 L07 37.98 32.26 -53.49	0114 M07 45.04 16.98 -42.23	0123 N07 52.1 1.7 -30.97	0132 O07 59.16 -13.56 -19.71	0141 P07 66.22 -28.84 -8.46	0150 Q07 76.68 -39.18 1.52	0159 R07 87.12 -49.52 11.5
08	0088 J08 29.96 68.82 -84.99	0097 K08 34.71 57.04 -77.69	0106 L08 41.78 41.76 -66.44	0115 M08 48.84 26.49 -55.18	0124 N08 55.9 11.21 -43.92	0133 O08 62.96 -4.06 -32.66	0142 P08 70.02 -19.33 -21.41	0151 Q08 77.08 -34.61 -10.15	0160 R08 87.53 -44.94 -0.17
09	0089 J09 33.75 78.32 -97.93	0098 K09 38.51 66.54 -90.63	0107 L09 45.57 51.26 -79.38	0116 M09 52.63 35.99 -68.12	0125 N09 59.69 20.71 -56.86	0134 O09 66.75 5.43 -45.6	0143 P09 73.82 -9.83 -34.35	0152 Q09 80.88 -25.11 -23.09	0161 R09 87.93 -40.37 -11.84
10	0324 J10 25.25 38.44 32.26	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 -10.33 45.36	0369 O10 56.78 -20.68 55.35	0378 P10 67.23 -31.02 65.34	0387 Q10 77.68 -41.36 75.32	0396 R10 88.13 -51.69 85.3
11	0325 J11 26.11 40.62 16.91	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 -7.75 34.03	0370 O11 57.13 -18.09 44.01	0379 P11 67.58 -28.43 54.0	0388 Q11 78.03 -38.78 63.99	0397 R11 88.47 -49.11 73.97
12	0326 J12 26.96 42.8 1.54	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 -5.17 22.68	0371 O12 57.47 -15.51 32.67	0380 P12 67.92 -25.85 42.66	0389 Q12 78.37 -36.19 52.65	0398 R12 88.81 -46.53 62.62
13	0327 J13 27.81 44.98 -13.82	0336 K13 32.57 33.2 -6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 -2.58 11.34	0372 O13 57.81 -12.92 21.33	0381 P13 68.26 -23.27 31.31	0390 Q13 78.72 -33.61 41.3	0399 R13 89.16 -43.94 51.28
14	0328 J14 28.66 47.16 -29.19	0337 K14 33.42 35.38 -21.9	0346 L14 38.18 23.58 -14.6	0355 M14 42.94 11.79 -7.3	0364 N14 47.72 0.0 -0.01	0373 O14 58.16 -10.34 9.98	0382 P14 68.61 -20.68 19.97	0391 Q14 79.06 -31.02 29.96	0400 R14 89.5 -41.36 39.94
15	0329 J15 32.46 56.67 -42.14	0338 K15 37.21 44.88 -34.85	0347 L15 41.98 33.09 -27.55	0356 M15 46.74 21.3 -20.25	0365 N15 51.5 9.5 -12.95	0374 O15 58.56 -5.76 -1.69	0383 P15 69.02 -16.11 8.29	0392 Q15 79.47 -26.45 18.28	0401 R15 89.91 -36.78 28.26
16	0330 J16 36.25 66.18 -55.09	0339 K16 41.01 54.39 -47.8	0348 L16 45.78 42.6 -40.5	0357 M16 50.54 30.8 -33.2	0366 N16 55.3 19.01 -25.9	0375 O16 62.36 3.73 -14.64	0384 P16 69.42 -11.53 -3.38	0393 Q16 79.87 -21.88 6.6	0402 R16 90.32 -32.21 16.58
17	0331 J17 40.05 75.68 -68.04	0340 K17 44.81 63.9 -60.75	0349 L17 49.57 52.11 -53.44	0358 M17 54.34 40.31 -46.15	0367 N17 59.1 28.52 -38.84	0376 O17 66.16 13.24 -27.59	0385 P17 73.22 -2.03 -16.33	0394 Q17 80.28 -17.3 -5.07	0403 R17 90.72 -27.64 4.9
18	0332 J18 43.85 85.18 -80.98	0341 K18 48.6 73.4 -73.68	0350 L18 53.37 61.6 -66.38	0359 M18 58.13 49.81 -59.08	0368 N18 62.89 38.02 -51.78	0377 O18 69.95 22.74 -40.53	0386 P18 77.01 7.46 -29.27	0395 Q18 84.08 -7.8 -18.01	0404 R18 91.13 -23.07 -6.76
19	0567 J19 44.19 67.28 56.47	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 -5.89 76.12	0630 Q19 81.07 -18.09 79.39	0639 R19 91.52 -28.42 89.37
20	0568 J20 45.04 69.46 41.11	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 -3.31 64.78	0631 Q20 81.42 -15.51 68.06	0640 R20 91.86 -25.84 78.04
21	0569 J21 45.89 71.64 25.74	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 -0.72 53.44	0632 Q21 81.76 -12.92 56.71	0641 R21 92.2 -23.25 66.69
22	0570 J22 46.74 73.82 10.38	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 -10.34 45.37	0642 R22 92.55 -20.67 55.35
23	0571 J23 47.59 76.0 -4.98	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 -7.75 34.03	0643 R23 92.89 -18.08 44.01
24	0572 J24 48.44 78.18 -20.35	0581 K24 53.2 66.4 -13.06	0590 L24 57.96 54.6 -5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 -5.17 22.68	0644 R24 93.24 -15.5 32.66
25	0573 J25 49.3 80.36 -35.72	0582 K25 54.05 68.58 -28.43	0591 L25 58.82 56.78 -21.13	0600 M25 63.58 44.99 -13.83	0609 N25 68.34 33.2 -6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 -2.58 11.34	0645 R25 93.58 -12.91 21.32
26	0574 J26 50.15 82.54 -51.09	0583 K26 54.91 70.76 -43.8	0592 L26 59.67 58.96 -36.5	0601 M26 64.43 47.17 -29.2	0610 N26 69.19 35.38 -21.9	0619 O26 73.96 23.58 -14.6	0628 P26 78.72 11.79 -7.3	0637 Q26 83.49 0.0 -0.01	0646 R26 93.92 -10.33 9.97
27	0575 J27 53.94 92.04 -64.03	0584 K27 58.7 80.26 -56.73	0593 L27 63.46 68.46 -49.43	0602 M27 68.22 56.67 -42.13	0611 N27 72.99 44.88 -34.83	0620 O27 77.75 33.08 -27.53	0629 P27 82.51 21.29 -20.23	0638 Q27 87.27 9.49 -12.93	0647 R27 94.33 -5.76 -1.69

	S	T	U	V	W	X	Y	Z	a
01	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4	0180 U01 23.17 -5.16 22.67	0189 V01 33.62 -15.51 32.66	0198 W01 44.07 -25.85 42.65	0207 X01 54.52 -36.19 52.64	0216 Y01 64.97 -46.53 62.62	0225 Z01 75.42 -56.88 72.61	0234 a01 85.87 -67.21 82.59
02	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06	0181 U02 23.51 -2.58 11.34	0190 V02 33.96 -12.92 21.33	0199 W02 44.41 -23.27 31.31	0208 X02 54.87 -33.61 41.3	0217 Y02 65.32 -43.95 51.29	0226 Z02 75.77 -54.29 61.28	0235 a02 86.21 -64.63 71.26
03	0164 S03 14.33 23.57 -14.59	0173 T03 19.09 11.79 -7.3	0182 U03 23.87 0.0 -0.01	0191 V03 34.31 -10.34 9.98	0200 W03 44.76 -20.68 19.97	0209 X03 55.21 -31.02 29.96	0218 Y03 65.66 -41.37 39.95	0227 Z03 76.11 -51.71 49.93	0236 a03 86.55 -62.04 59.91
04	0165 S04 18.13 33.08 -27.54	0174 T04 22.89 21.3 -20.25	0183 U04 27.65 9.5 -12.95	0192 V04 34.71 -5.76 -1.69	0201 W04 45.17 -16.11 8.29	0210 X04 55.62 -26.45 18.28	0219 Y04 66.07 -36.79 28.27	0228 Z04 76.52 -47.13 38.25	0237 a04 86.96 -57.47 48.23
05	0166 S05 21.93 42.59 -40.49	0175 T05 26.69 30.8 -33.2	0184 U05 31.45 19.01 -25.9	0193 V05 38.51 3.73 -14.64	0202 W05 45.57 -11.53 -3.38	0211 X05 56.02 -21.88 6.6	0220 Y05 66.48 -32.22 16.59	0229 Z05 76.93 -42.56 26.57	0238 a05 87.37 -52.89 36.55
06	0167 S06 25.73 52.1 -53.44	0176 T06 30.49 40.31 -46.15	0185 U06 35.25 28.52 -38.84	0194 V06 42.31 13.24 -27.59	0203 W06 49.37 -2.03 -16.33	0212 X06 56.43 -17.3 -5.07	0221 Y06 66.88 -27.64 4.91	0230 Z06 77.33 -37.99 14.89	0239 a06 87.78 -48.32 24.87
07	0168 S07 29.52 61.6 -66.39	0177 T07 34.28 49.82 -59.1	0186 U07 39.05 38.03 -51.8	0195 V07 46.11 22.75 -40.54	0204 W07 53.17 7.47 -29.28	0213 X07 60.23 -7.79 -18.02	0222 Y07 67.29 -23.07 -6.77	0231 Z07 77.74 -33.41 3.21	0240 a07 88.18 -43.75 13.19
08	0169 S08 33.32 71.11 -79.34	0178 T08 38.08 59.33 -72.05	0187 U08 42.84 47.53 -64.75	0196 V08 49.9 32.26 -53.49	0205 W08 56.96 16.98 -42.23	0214 X08 64.03 1.7 -30.97	0223 Y08 71.09 -13.56 -19.71	0232 Z08 78.15 -28.84 -8.46	0241 a08 88.59 -39.17 1.51
09	0170 S09 37.12 80.61 -92.28	0179 T09 41.87 68.83 -84.98	0188 U09 46.64 57.03 -77.68	0197 V09 53.7 41.76 -66.43	0206 W09 60.76 26.48 -55.17	0215 X09 67.82 11.2 -43.91	0224 Y09 74.88 -4.06 -32.65	0233 Z09 81.94 -19.34 -21.4	0242 a09 89.0 -34.6 -10.15
10	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 -0.72 53.43	0450 X10 57.91 -12.92 56.7	0459 Y10 68.36 -23.26 66.69	0468 Z10 78.81 -33.6 76.68	0477 a10 89.26 -43.94 86.66
11	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 -10.34 45.37	0460 Y11 68.71 -20.68 55.36	0469 Z11 79.16 -31.02 65.35	0478 a11 89.6 -41.35 75.32
12	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 -7.75 34.03	0461 Y12 69.05 -18.09 44.01	0470 Z12 79.5 -28.43 54.0	0479 a12 89.94 -38.77 63.98
13	0408 S13 34.12 54.59 -5.75	0417 T13 38.88 42.81 1.53	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 -5.17 22.68	0462 Y13 69.39 -15.51 32.67	0471 Z13 79.85 -25.85 42.66	0480 a13 90.29 -36.18 52.64
14	0409 S14 34.97 56.77 -21.12	0418 T14 39.73 44.99 -13.83	0427 U14 44.49 33.2 -6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 -2.58 11.34	0463 Y14 69.74 -12.92 21.33	0472 Z14 80.19 -23.27 31.31	0481 a14 90.63 -33.6 41.29
15	0410 S15 35.82 58.95 -36.49	0419 T15 40.58 47.17 -29.2	0428 U15 45.34 35.38 -21.9	0437 V15 50.11 23.58 -14.6	0446 W15 54.87 11.79 -7.3	0455 X15 59.64 0.0 -0.01	0464 Y15 70.08 -10.34 9.98	0473 Z15 80.53 -20.68 19.97	0482 a15 90.98 -31.01 29.95
16	0411 S16 39.62 68.46 -49.44	0420 T16 44.38 56.68 -42.15	0429 U16 49.14 44.88 -34.85	0438 V16 53.9 33.09 -27.55	0447 W16 58.67 21.3 -20.25	0456 X16 63.43 9.5 -12.95	0465 Y16 70.49 -5.76 -1.69	0474 Z16 80.94 -16.11 8.29	0483 a16 91.38 -26.44 18.27
17	0412 S17 43.42 77.97 -62.39	0421 T17 48.18 66.19 -55.1	0430 U17 52.94 54.39 -47.8	0439 V17 57.7 42.6 -40.5	0448 W17 62.46 30.8 -33.2	0457 X17 67.23 19.01 -25.9	0466 Y17 74.29 3.73 -14.64	0475 Z17 81.35 -11.53 -3.38	0484 a17 91.79 -21.87 6.59
18	0413 S18 47.21 87.47 -75.33	0422 T18 51.97 75.68 -68.03	0431 U18 56.73 63.89 -60.73	0440 V18 61.49 52.1 -53.43	0449 W18 66.26 40.3 -46.13	0458 X18 71.02 28.51 -38.83	0467 Y18 78.08 13.23 -27.58	0476 Z18 85.14 -2.03 -16.32	0485 a18 92.2 -17.3 -5.07
19	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 -8.48 87.45	0720 a19 92.65 -20.67 90.73
20	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 -5.9 76.12	0721 a20 92.99 -18.09 79.39
21	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 -3.31 64.78	0722 a21 93.33 -15.5 68.05
22	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 -0.73 53.43	0723 a22 93.68 -12.92 56.7
23	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 -10.33 45.36
24	0653 S24 54.75 87.79 -12.29	0662 T24 59.51 76.0 -5.0	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 -7.75 34.02
25	0654 S25 55.6 89.97 -27.66	0663 T25 60.36 78.18 -20.36	0672 U25 65.12 66.39 -13.06	0681 V25 69.88 54.6 -5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 -5.16 22.67
26	0655 S26 56.45 92.15 -43.03	0664 T26 61.21 80.36 -35.73	0673 U26 65.97 68.57 -28.43	0682 V26 70.74 56.78 -21.13	0691 W26 75.5 44.98 -13.83	0700 X26 80.26 33.19 -6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 -2.58 11.33
27	0656 S27 57.3 94.33 -58.38	0665 T27 62.06 82.54 -51.09	0674 U27 66.82 70.75 -43.79	0683 V27 71.59 58.95 -36.49	0692 W27 76.35 47.16 -29.19	0701 X27 81.11 35.37 -21.89	0710 Y27 85.87 23.57 -14.59	0719 Z27 90.64 11.78 -7.29	0728 a27 95.41 0.0 -0.01

	b	c	d	e	f	g	h	i	j	k	l	m	n
01	0729 b01 95.41 0.0 -0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53	0972 k01 0.03 0.0 -0.01	0981 l01 0.03 0.0 -0.01	0990 m01 0.03 0.0 -0.01	0999 n01 0.03 0.0 -0.01
02	0730 b02 94.33 -5.76 -1.69	0739 c02 83.49 0.0 -0.01	0748 d02 77.87 9.61 8.06	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47	0973 k02 11.94 0.0 -0.01	0982 l02 11.94 0.0 -0.01	0991 m02 11.94 0.0 -0.01	1000 n02 11.94 0.0 -0.01
03	0731 b03 93.26 -11.53 -3.38	0740 c03 82.41 -5.76 -1.69	0749 d03 71.57 0.0 -0.01	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4	0974 k03 23.87 0.0 -0.01	0983 l03 23.87 0.0 -0.01	0992 m03 23.87 0.0 -0.01	1001 n03 23.87 0.0 -0.01
04	0732 b04 92.2 -17.3 -5.07	0741 c04 81.35 -11.53 -3.38	0750 d04 70.49 -5.76 -1.69	0759 e04 59.64 0.0 -0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33	0975 k04 35.79 0.0 -0.01	0984 l04 35.79 0.0 -0.01	0993 m04 35.79 0.0 -0.01	1002 n04 35.79 0.0 -0.01
05	0733 b05 91.13 -23.07 -6.76	0742 c05 80.28 -17.3 -5.07	0751 d05 69.42 -11.53 -3.38	0760 e05 58.56 -5.76 -1.69	0769 f05 47.72 0.0 -0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26	0976 k05 47.72 0.0 -0.01	0985 l05 47.72 0.0 -0.01	0994 m05 47.72 0.0 -0.01	1003 n05 47.72 0.0 -0.01
06	0734 b06 90.07 -28.83 -8.46	0743 c06 79.22 -23.07 -6.77	0752 d06 68.36 -17.3 -5.07	0761 e06 57.5 -11.53 -3.38	0770 f06 46.64 -5.76 -1.69	0779 g06 35.79 0.0 -0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19	0977 k06 59.64 0.0 -0.01	0986 l06 59.64 0.0 -0.01	0995 m06 59.64 0.0 -0.01	1004 n06 59.64 0.0 -0.01
07	0735 b07 89.0 -34.6 -10.15	0744 c07 78.15 -28.84 -8.46	0753 d07 67.29 -23.07 -6.77	0762 e07 56.43 -17.3 -5.07	0771 f07 45.57 -11.53 -3.38	0780 g07 34.71 -5.76 -1.69	0789 h07 23.87 0.0 -0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13	0978 k07 71.57 0.0 -0.01	0987 l07 71.57 0.0 -0.01	0996 m07 71.57 0.0 -0.01	1005 n07 71.57 0.0 -0.01
08	0736 b08 87.93 -40.37 -11.84	0745 c08 77.08 -34.61 -10.15	0754 d08 66.22 -28.84 -8.46	0763 e08 55.36 -23.07 -6.77	0772 f08 44.51 -17.3 -5.07	0781 g08 33.65 -11.53 -3.38	0790 h08 22.79 -5.76 -1.69	0799 i08 11.94 0.0 -0.01	0808 j08 6.32 9.6 8.06	0979 k08 83.49 0.0 -0.01	0988 l08 83.49 0.0 -0.01	0997 m08 83.49 0.0 -0.01	1006 n08 83.49 0.0 -0.01
09	0737 b09 86.87 -46.14 -13.53	0746 c09 76.02 -40.37 -11.84	0755 d09 65.16 -34.6 -10.15	0764 e09 54.3 -28.83 -8.46	0773 f09 43.44 -23.07 -6.76	0782 g09 32.58 -17.3 -5.07	0791 h09 21.72 -11.53 -3.38	0800 i09 10.86 -5.76 -1.69	0809 j09 0.03 0.0 -0.01	0980 k09 95.41 0.0 -0.01	0989 l09 95.41 0.0 -0.01	0998 m09 95.41 0.0 -0.01	1007 n09 95.41 0.0 -0.01
10	0810 b10 95.41 0.0 -0.01	0819 c10 95.05 -2.58 11.33	0828 d10 94.71 -5.16 22.67	0837 e10 94.36 -7.75 34.02	0846 f10 94.02 -10.33 45.36	0855 g10 93.68 -12.92 56.7	0864 h10 93.33 -15.5 68.05	0873 i10 92.99 -18.09 79.39	0882 j10 92.65 -20.67 90.73	1008 k10 0.03 0.0 -0.01	1024 l10 0.03 0.0 -0.01	1040 m10 0.03 0.0 -0.01	1056 n10 0.03 0.0 -0.01
11	0811 b11 87.27 9.49 -12.93	0820 c11 83.49 0.0 -0.01	0829 d11 83.14 -2.58 11.34	0838 e11 82.79 -5.17 22.68	0847 f11 82.45 -7.75 34.03	0856 g11 82.11 -10.34 45.37	0865 h11 81.76 -12.92 56.71	0874 i11 81.42 -15.51 68.06	0883 j11 81.07 -18.09 79.39	1009 k11 6.38 0.0 -0.01	1025 l11 6.38 0.0 -0.01	1041 m11 6.38 0.0 -0.01	1057 n11 6.38 0.0 -0.01
12	0812 b12 79.15 19.0 -25.88	0821 c12 75.35 9.5 -12.95	0830 d12 71.57 0.0 -0.01	0839 e12 71.21 -2.58 11.34	0848 f12 70.87 -5.17 22.68	0857 g12 70.52 -7.75 34.03	0866 h12 70.18 -10.34 45.37	0875 i12 69.84 -12.92 56.71	0884 j12 69.49 -15.5 68.05	1010 k12 12.74 0.0 -0.01	1026 l12 12.74 0.0 -0.01	1042 m12 12.74 0.0 -0.01	1058 n12 12.74 0.0 -0.01
13	0813 b13 71.02 28.51 -38.83	0822 c13 67.23 19.01 -25.9	0831 d13 63.43 9.5 -12.95	0840 e13 59.64 0.0 -0.01	0849 f13 59.29 -2.58 11.34	0858 g13 58.94 -5.17 22.68	0867 h13 58.6 -7.75 34.03	0876 i13 58.26 -10.34 45.37	0885 j13 57.91 -12.92 56.7	1011 k13 19.1 0.0 -0.01	1027 l13 19.1 0.0 -0.01	1043 m13 19.1 0.0 -0.01	1059 n13 19.1 0.0 -0.01
14	0814 b14 62.89 38.02 -51.78	0823 c14 59.1 28.52 -38.84	0832 d14 55.3 19.01 -25.9	0841 e14 51.5 9.5 -12.95	0850 f14 47.72 0.0 -0.01	0859 g14 47.36 -2.58 11.34	0868 h14 47.02 -5.17 22.68	0877 i14 46.67 -7.75 34.03	0886 j14 46.33 -10.33 45.36	1012 k14 25.46 0.0 -0.01	1028 l14 25.46 0.0 -0.01	1044 m14 25.46 0.0 -0.01	1060 n14 25.46 0.0 -0.01
15	0815 b15 54.76 47.52 -64.73	0824 c15 50.97 38.03 -51.8	0833 d15 47.17 28.52 -38.84	0842 e15 43.38 19.01 -25.9	0851 f15 39.58 9.5 -12.95	0860 g15 35.79 0.0 -0.01	0869 h15 35.44 -2.58 11.34	0878 i15 35.09 -5.17 22.68	0887 j15 34.75 -7.75 34.02	1013 k15 31.82 0.0 -0.01	1029 l15 31.82 0.0 -0.01	1045 m15 31.82 0.0 -0.01	1061 n15 31.82 0.0 -0.01
16	0816 b16 46.64 57.03 -77.68	0825 c16 42.84 47.53 -64.75	0834 d16 39.05 38.03 -51.8	0843 e16 35.25 28.52 -38.84	0852 f16 31.45 19.01 -25.9	0861 g16 27.65 9.5 -12.95	0870 h16 23.87 0.0 -0.01	0879 i16 23.51 -2.58 11.34	0888 j16 23.17 -5.16 22.67	1014 k16 38.18 0.0 -0.01	1030 l16 38.18 0.0 -0.01	1046 m16 38.18 0.0 -0.01	1062 n16 38.18 0.0 -0.01
17	0817 b17 38.51 66.54 -90.63	0826 c17 34.71 57.04 -77.69	0835 d17 30.92 47.53 -64.75	0844 e17 27.12 38.03 -51.8	0853 f17 23.32 28.52 -38.84	0862 g17 19.53 19.01 -25.9	0871 h17 15.73 9.5 -12.95	0880 i17 11.94 0.0 -0.01	0889 j17 11.59 -2.58 11.33	1015 k17 44.54 0.0 -0.01	1031 l17 44.54 0.0 -0.01	1047 m17 44.54 0.0 -0.01	1063 n17 44.54 0.0 -0.01
18	0818 b18 30.39 76.04 -103.57	0827 c18 26.59 66.54 -90.63	0836 d18 22.8 57.03 -77.68	0845 e18 19.0 47.52 -64.73	0854 f18 15.2 38.02 -51.78	0863 g18 11.4 28.51 -38.83	0872 h18 7.61 19.0 -25.88	0881 i18 3.81 9.49 -12.93	0890 j18 0.03 0.0 -0.01	1016 k18 50.9 0.0 -0.01	1032 l18 50.9 0.0 -0.01	1048 m18 50.9 0.0 -0.01	1064 n18 50.9 0.0 -0.01
19	0891 b19 95.41 0.0 -0.01	0900 c19 93.92 -10.33 9.97	0909 d19 92.45 -20.67 19.96	0918 e19 90.98 -31.01 29.95	0927 f19 89.5 -41.36 39.94	0936 g19 88.03 -51.7 49.92	0945 h19 86.55 -62.04 59.91	0954 i19 85.08 -72.38 69.9	0963 j19 83.61 -82.72 79.88	1017 k19 57.26 0.0 -0.01	1033 l19 57.26 0.0 -0.01	1049 m19 57.26 0.0 -0.01	1065 n19 57.26 0.0 -0.01
20	0892 b20 90.64 11.78 -7.29	0901 c20 83.49 0.0 -0.01	0910 d20 82.01 -10.34 9.98	0919 e20 80.53 -20.68 19.97	0928 f20 79.06 -31.02 29.96	0937 g20 77.59 -41.37 39.95	0946 h20 76.11 -51.71 49.93	0955 i20 74.64 -62.05 59.92	0964 j20 73.16 -72.38 69.9	1018 k20 63.62 0.0 -0.01	1034 l20 63.62 0.0 -0.01	1050 m20 63.62 0.0 -0.01	1066 n20 63.62 0.0 -0.01
21	0893 b21 85.87 23.57 -14.59	0902 c21 78.72 11.79 -7.3	0911 d21 71.57 0.0 -0.01	0920 e21 70.08 -10.34 9.98	0929 f21 68.61 -20.68 19.97	0938 g21 67.13 -31.02 29.96	0947 h21 65.66 -41.37 39.95	0956 i21 64.19 -51.71 49.93	0965 j21 62.71 -62.04 59.91	1019 k21 69.98 0.0 -0.01	1035 l21 69.98 0.0 -0.01	1051 m21 69.98 0.0 -0.01	1067 n21 69.98 0.0 -0.01
22	0894 b22 81.11 35.37 -21.89	0903 c22 73.96 23.58 -14.6	0912 d22 66.79 11.79 -7.3	0921 e22 59.64 0.0 -0.01	0930 f22 58.16 -10.34 9.98	0939 g22 56.68 -20.68 19.97	0948 h22 55.21 -31.02 29.96	0957 i22 53.74 -41.37 39.95	0966 j22 52.26 -51.7 49.92	1020 k22 76.34 0.0 -0.01	1036 l22 76.34 0.0 -0.01	1052 m22 76.34 0.0 -0.01	1068 n22 76.34 0.0 -0.01
23	0895 b23 76.35 47.16 -29.19	0904 c23 69.19 35.38 -21.9	0913 d23 62.03 23.58 -14.6	0922 e23 54.87 11.79 -7.3	0931 f23 47.72 0.0 -0.01	0940 g23 46.23 -10.34 9.98	0949 h23 44.76 -20.68 19.97	0958 i23 43.28 -31.02 29.96	0967 j23 41.81 -41.36 39.94	1021 k23 82.7 0.0 -0.01	1037 l23 82.7 0.0 -0.01	1053 m23 82.7 0.0 -0.01	1069 n23 82.7 0.0 -0.01
24	0896 b24 71.59 58.95 -36.49	0905 c24 64.43 47.17 -29.2	0914 d24 57.27 35.38 -21.9	0923 e24 50.11 23.58 -14.6	0932 f24 42.94 11.79 -7.3	0941 g24 35.79 0.0 -0.01	0950 h24 34.31 -10.34 9.98	0959 i24 32.83 -20.68 19.97	0968 j24 31.36 -31.01 29.95	1022 k24 89.06 0.0 -0.01	1038 l24 89.06 0.0 -0.01	1054 m24 89.06 0.0 -0.01	1070 n24 89.06 0.0 -0.01
25	0897 b25 66.82 70.75 -43.79	0906 c25 59.67 58.96 -36.5	0915 d25 52.51 47.17 -29.2	0924 e25 45.34 35.38 -21.9	0933 f25 38.18 23.58 -14.6	0942 g25 31.02 11.79 -7.3	0951 h25 23.87 0.0 -0.01	0960 i25 22.38 -10.34 9.98	0969 j25 20.91 -20.67 19.96	1023 k25 95.41 0.0 -0.01	1039 l25 95.41 0.0 -0.01	1055 m25 95.41 0.0 -0.01	1071 n25 95.41 0.0 -0.01
26	0898 b26 62.06 82.54 -51.09	0907 c26 54.91 70.76 -43.8	0916 d26 47.74 58.96 -36.5	0925 e26 40.58 47.17 -29.2	0934 f26 33.42 35.38 -21.9	0943 g26 26.26 23.58 -14.6	0952 h26 19.09 11.79 -7.3	0961 i26 11.94 0.0 -0.01	0970 j26 10.46 -10.33 9.97	1072 k26 0.03 0.0 -0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 -20.67 90.73	1078 n26 83.61 -82.72 79.88
27	0899 b27 57.3 94.33 -58.38	0908 c27 50.15 82.54 -51.09	0917 d27 42.98 70.75 -43.79	0926 e27 35.82 58.95 -36.49	0935 f27 28.66 47.16 -29.19	0944 g27 21.5 35.37 -21.89	0953 h27 14.33 23.57 -14.59	0962 i27 7.17 11.78 -7.29	0971 j27 0.03 0.0 -0.01	1073 k27 95.41 0.0 -0.01	1075 l27 86.87 -46.14 -13.53	1077 m27 30.39 76.04 -103.57	1079 n27 57.3 94.33 -58.38

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 16/4, TLS18

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.03 0.0 −0.01	0009 B01 10.46 −10.33 9.97	0018 C01 20.91 −20.67 19.96	0027 D01 31.36 −31.01 29.95	0036 E01 41.81 −41.36 39.94	0045 F01 52.26 −51.7 49.92	0054 G01 62.71 −62.04 59.91	0063 H01 73.16 −72.38 69.9	0072 I01 83.61 −82.72 79.88	0081 J01 6.32 9.6 8.06
02	0001 A02 3.81 9.49 −12.93	0010 B02 10.86 −5.76 −1.69	0019 C02 21.32 −16.1 8.29	0028 D02 31.77 −26.44 18.28	0037 E02 42.22 −36.79 28.27	0046 F02 52.67 −47.13 38.25	0055 G02 63.12 −57.47 48.24	0064 H02 73.57 −67.81 58.23	0073 I02 84.01 −78.15 68.21	0082 J02 7.17 11.78 −7.29
03	0002 A03 7.61 19.0 −25.88	0011 B03 14.66 3.74 −14.64	0020 C03 21.72 −11.53 −3.38	0029 D03 32.17 −21.87 6.6	0038 E03 42.63 −32.21 16.59	0047 F03 53.08 −42.56 26.57	0056 G03 63.53 −52.9 36.56	0065 H03 73.98 −63.24 46.55	0074 I03 84.42 −73.57 56.53	0083 J03 10.97 21.29 −20.24
04	0003 A04 11.4 28.51 −38.83	0012 B04 18.46 13.25 −27.59	0021 C04 25.52 −2.02 −16.33	0030 D04 32.58 −17.3 −5.07	0039 E04 43.03 −27.64 4.91	0048 F04 53.48 −37.98 14.89	0057 G04 63.94 −48.32 24.88	0066 H04 74.39 −58.67 34.87	0075 I04 84.83 −69.0 44.85	0084 J04 14.77 30.79 −33.19
05	0004 A05 15.2 38.02 −51.78	0013 B05 22.26 22.75 −40.54	0022 C05 29.32 7.48 −29.28	0031 D05 36.38 −7.79 −18.02	0040 E05 43.44 −23.07 −6.76	0049 F05 53.89 −33.41 3.21	0058 G05 64.34 −43.75 13.2	0067 H05 74.79 −54.09 23.19	0076 I05 85.24 −64.43 33.17	0085 J05 18.56 40.3 −46.14
06	0005 A06 19.0 47.52 −64.73	0014 B06 26.05 32.26 −53.49	0023 C06 33.12 16.98 −42.23	0032 D06 40.18 1.71 −30.97	0041 E06 47.24 −13.56 −19.71	0050 F06 54.3 −28.83 −8.46	0059 G06 64.75 −39.18 1.52	0068 H06 75.2 −49.52 11.51	0077 I06 85.64 −59.85 21.49	0086 J06 22.36 49.81 −59.09
07	0006 A07 22.8 57.03 −77.68	0015 B07 29.85 41.77 −66.44	0024 C07 36.91 26.49 −55.18	0033 D07 43.97 11.22 −43.92	0042 E07 51.04 −4.05 −32.66	0051 F07 58.1 −19.33 −21.41	0060 G07 65.16 −34.6 −10.15	0069 H07 75.61 −44.95 −0.16	0078 I07 86.05 −55.28 9.81	0087 J07 26.16 59.32 −72.04
08	0007 A08 26.59 66.54 −90.63	0016 B08 33.65 51.28 −79.39	0025 C08 40.71 36.0 −68.13	0034 D08 47.77 20.72 −56.87	0043 E08 54.83 5.45 −45.61	0052 F08 61.89 −9.82 −34.36	0061 G08 68.96 −25.1 −23.1	0070 H08 76.02 −40.37 −11.84	0079 I08 86.46 −50.71 −1.86	0088 J08 29.96 68.82 −84.99
09	0008 A09 30.39 76.04 −103.57	0017 B09 37.44 60.78 −92.33	0026 C09 44.51 45.5 −81.07	0035 D09 51.57 30.22 −69.81	0044 E09 58.63 14.95 −58.55	0053 F09 65.69 −0.32 −47.3	0062 G09 72.75 −15.6 −36.04	0071 H09 79.81 −30.87 −24.78	0080 I09 86.87 −46.14 −13.53	0089 J09 33.75 78.32 −97.93
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 −7.75 34.02	0279 E10 45.2 −18.09 44.0	0288 F10 55.65 −28.43 53.99	0297 G10 66.1 −38.78 63.98	0306 H10 76.55 −49.12 73.97	0315 I10 87.0 −59.45 83.95	0324 J10 25.25 38.44 32.26
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 −5.17 22.68	0280 E11 45.54 −15.51 32.67	0289 F11 55.99 −25.85 42.66	0298 G11 66.45 −36.19 52.65	0307 H11 76.9 −46.54 62.63	0316 I11 87.34 −56.87 72.61	0325 J11 26.11 40.62 16.91
12	0245 A12 20.65 33.19 −6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 −2.58 11.34	0281 E12 45.89 −12.92 21.33	0290 F12 56.34 −23.27 31.31	0299 G12 66.79 −33.61 41.3	0308 H12 77.24 −43.95 51.29	0317 I12 87.68 −54.28 61.27	0326 J12 26.96 42.8 1.54
13	0246 A13 21.5 35.37 −21.89	0255 B13 26.26 23.58 −14.6	0264 C13 31.02 11.79 −7.3	0273 D13 35.79 0.0 −0.01	0282 E13 46.23 −10.34 9.98	0291 F13 56.68 −20.68 19.97	0300 G13 67.13 −31.02 29.96	0309 H13 77.59 −41.37 39.95	0318 I13 88.03 −51.7 49.92	0327 J13 27.81 44.98 −13.82
14	0247 A14 25.29 44.87 −34.84	0256 B14 30.05 33.09 −27.55	0265 C14 34.82 21.3 −20.25	0274 D14 39.58 9.5 −12.95	0283 E14 46.64 −5.76 −1.69	0292 F14 57.09 −16.11 8.29	0301 G14 67.54 −26.45 18.28	0310 H14 77.99 −36.79 28.27	0319 I14 88.44 −47.13 38.24	0328 J14 28.66 47.16 −29.19
15	0248 A15 29.09 54.38 −47.79	0257 B15 33.85 42.6 −40.5	0266 C15 38.61 30.8 −33.2	0275 D15 43.38 19.01 −25.9	0284 E15 50.44 3.73 −14.64	0293 F15 57.5 −11.53 −3.38	0302 G15 67.95 −21.88 6.6	0311 H15 78.4 −32.22 16.59	0320 I15 88.84 −42.55 26.56	0329 J15 32.46 56.67 −42.14
16	0249 A16 32.89 63.89 −60.74	0258 B16 37.65 52.11 −53.44	0267 C16 42.41 40.31 −46.15	0276 D16 47.17 28.52 −38.84	0285 E16 54.23 13.24 −27.59	0294 F16 61.3 −2.03 −16.33	0303 G16 68.36 −17.3 −5.07	0312 H16 78.81 −27.64 4.91	0321 I16 89.25 −37.98 14.88	0330 J16 36.25 66.18 −55.09
17	0250 A17 36.69 73.4 −73.69	0259 B17 41.45 61.61 −66.4	0268 C17 46.21 49.82 −59.1	0277 D17 50.97 38.03 −51.8	0286 E17 58.03 22.75 −40.54	0295 F17 65.09 7.47 −29.28	0304 G17 72.15 −7.79 −18.02	0313 H17 79.22 −23.07 −6.77	0322 I17 89.66 −33.4 3.2	0331 J17 40.05 75.68 −68.04
18	0251 A18 40.48 82.9 −86.63	0260 B18 45.24 71.11 −79.33	0269 C18 50.0 59.32 −72.03	0278 D18 54.76 47.52 −64.73	0287 E18 61.83 32.25 −53.48	0296 F18 68.89 16.97 −42.22	0305 G18 75.95 1.7 −30.96	0314 H18 83.01 −13.57 −19.7	0323 I18 90.07 −28.83 −8.46	0332 J18 43.85 85.18 −80.98
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 −3.3 64.77	0540 G19 69.49 −15.5 68.05	0549 H19 79.94 −25.85 78.04	0558 I19 90.39 −36.18 88.02	0567 J19 44.19 67.28 56.47
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 −0.72 53.44	0541 G20 69.84 −12.92 56.71	0550 H20 80.29 −23.26 66.7	0559 I20 90.73 −33.6 76.68	0568 J20 45.04 69.46 41.11
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 −10.34 45.37	0551 H21 80.63 −20.68 55.36	0560 I21 91.07 −31.01 65.34	0569 J21 45.89 71.64 25.74
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 −7.75 34.03	0552 H22 80.98 −18.09 44.01	0561 I22 91.42 −28.43 53.99	0570 J22 46.74 73.82 10.38
23	0490 A23 41.28 66.39 −13.05	0499 B23 46.04 54.6 −5.76	0508 C23 50.8 42.81 1.53	0517 D23 55.57 31.02 8.83	0526 E23 60.33 19.22 16.13	0535 F23 65.6 7.02 19.41	0544 G23 70.87 −5.17 22.68	0553 H23 81.32 −15.51 32.67	0562 I23 91.76 −25.84 42.65	0571 J23 47.59 76.0 −4.98
24	0491 A24 42.13 68.57 −28.42	0500 B24 46.89 56.78 −21.13	0509 C24 51.65 44.99 −13.83	0518 D24 56.42 33.2 −6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 −2.58 11.34	0554 H24 81.66 −12.92 21.33	0563 I24 92.11 −23.26 31.31	0572 J24 48.44 78.18 −20.35
25	0492 A25 42.98 70.75 −43.79	0501 B25 47.74 58.96 −36.5	0510 C25 52.51 47.17 −29.2	0519 D25 57.27 35.38 −21.9	0528 E25 62.03 23.58 −14.6	0537 F25 66.79 11.79 −7.3	0546 G25 71.57 0.0 −0.01	0555 H25 82.01 −10.34 9.98	0564 I25 92.45 −20.67 19.96	0573 J25 49.3 80.36 −35.72
26	0493 A26 46.78 80.26 −56.74	0502 B26 51.54 68.47 −49.45	0511 C26 56.3 56.68 −42.15	0520 D26 61.07 44.88 −34.85	0529 E26 65.83 33.09 −27.55	0538 F26 70.59 21.3 −20.25	0547 G26 75.35 9.5 −12.95	0556 H26 82.41 −5.76 −1.69	0565 I26 92.86 −16.1 8.28	0574 J26 50.15 82.54 −51.09
27	0494 A27 50.58 89.76 −69.68	0503 B27 55.33 77.97 −62.38	0512 C27 60.1 66.18 −55.08	0521 D27 64.86 54.38 −47.78	0530 E27 69.62 42.59 −40.48	0539 F27 74.38 30.8 −33.18	0548 G27 79.15 19.0 −25.88	0557 H27 86.21 3.73 −14.63	0566 I27 93.26 −11.53 −3.38	0575 J27 53.94 92.04 −64.03

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.59 −2.58 11.33	0099 L01 22.04 −12.92 21.32	0108 M01 32.49 −23.26 31.3	0117 N01 42.94 −33.61 41.29	0126 O01 53.39 −43.95 51.28	0135 P01 63.84 −54.29 61.27	0144 Q01 74.29 −64.63 71.25	0153 R01 84.74 −74.97 81.23	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4
02	0091 K02 11.94 0.0 −0.01	0100 L02 22.38 −10.34 9.98	0109 M02 32.83 −20.68 19.97	0118 N02 43.28 −31.02 29.96	0127 O02 53.74 −41.37 39.95	0136 P02 64.19 −51.71 49.93	0145 Q02 74.64 −62.05 59.92	0154 R02 85.08 −72.38 69.9	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06
03	0092 K03 15.73 9.5 −12.95	0101 L03 22.79 −5.76 −1.69	0110 M03 33.24 −16.11 8.29	0119 N03 43.69 −26.45 18.28	0128 O03 54.14 −36.79 28.27	0137 P03 64.59 −47.13 38.25	0146 Q03 75.05 −57.48 48.24	0155 R03 85.49 −67.81 58.22	0164 S03 14.33 23.57 −14.59	0173 T03 19.09 11.79 −7.3
04	0093 K04 19.53 19.01 −25.9	0102 L04 26.59 3.73 −14.64	0111 M04 33.65 −11.53 −3.38	0120 N04 44.1 −21.88 6.6	0129 O04 54.55 −32.22 16.59	0138 P04 65.0 −42.56 26.57	0147 Q04 75.45 −52.9 36.56	0156 R04 85.9 −63.24 46.54	0165 S04 18.13 33.08 −27.54	0174 T04 22.89 21.3 −20.25
05	0094 K05 23.32 28.52 −38.84	0103 L05 30.38 13.24 −27.59	0112 M05 37.44 −2.03 −16.33	0121 N05 44.51 −17.3 −5.07	0130 O05 54.96 −27.64 4.91	0139 P05 65.41 −37.99 14.89	0148 Q05 75.86 −48.33 24.88	0157 R05 86.3 −58.66 34.86	0166 S05 21.93 42.59 −40.49	0175 T05 26.69 30.8 −33.2
06	0095 K06 27.12 38.03 −51.8	0104 L06 34.18 22.75 −40.54	0113 M06 41.24 7.47 −29.28	0122 N06 48.3 −7.79 −18.02	0131 O06 55.36 −23.07 −6.77	0140 P06 65.82 −33.41 3.21	0149 Q06 76.27 −43.76 13.2	0158 R06 86.71 −54.09 23.18	0167 S06 25.73 52.1 −53.44	0176 T06 30.49 40.31 −46.15
07	0096 K07 30.92 47.53 −64.75	0105 L07 37.98 32.26 −53.49	0114 M07 45.04 16.98 −42.23	0123 N07 52.1 1.7 −30.97	0132 O07 59.16 −13.56 −19.71	0141 P07 66.22 −28.84 −8.46	0150 Q07 76.68 −39.18 1.52	0159 R07 87.12 −49.52 11.5	0168 S07 29.52 61.6 −66.39	0177 T07 34.28 49.82 −59.1
08	0097 K08 34.71 57.04 −77.69	0106 L08 41.78 41.76 −66.44	0115 M08 48.84 26.49 −55.18	0124 N08 55.9 11.21 −43.92	0133 O08 62.96 −4.06 −32.66	0142 P08 70.02 −19.33 −21.41	0151 Q08 77.08 −34.61 −10.15	0160 R08 87.53 −44.94 −0.17	0169 S08 33.32 71.11 −79.34	0178 T08 38.08 59.33 −72.05
09	0098 K09 38.51 66.54 −90.63	0107 L09 45.57 51.26 −79.38	0116 M09 52.63 35.99 −68.12	0125 N09 59.69 20.71 −56.86	0134 O09 66.75 5.43 −45.6	0143 P09 73.82 −9.83 −34.35	0152 Q09 80.88 −25.11 −23.09	0161 R09 87.93 −40.37 −11.84	0170 S09 37.12 80.61 −92.28	0179 T09 41.87 68.83 −84.98
10	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 −10.33 45.36	0369 O10 56.78 −20.68 55.35	0378 P10 67.23 −31.02 65.34	0387 Q10 77.68 −41.36 75.32	0396 R10 88.13 −51.69 85.3	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6
11	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 −7.75 34.03	0370 O11 57.13 −18.09 44.01	0379 P11 67.58 −28.43 54.0	0388 Q11 78.03 −38.78 63.99	0397 R11 88.47 −49.11 73.97	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27
12	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 −5.17 22.68	0371 O12 57.47 −15.51 32.67	0380 P12 67.92 −25.85 42.66	0389 Q12 78.37 −36.19 52.65	0398 R12 88.81 −46.53 62.62	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9
13	0336 K13 32.57 33.2 −6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 −2.58 11.34	0372 O13 57.81 −12.92 21.33	0381 P13 68.26 −23.27 31.31	0390 Q13 78.72 −33.61 41.3	0399 R13 89.16 −43.94 51.28	0408 S13 34.12 54.59 −5.75	0417 T13 38.88 42.81 1.53
14	0337 K14 33.42 35.38 −21.9	0346 L14 38.18 23.58 −14.6	0355 M14 42.94 11.79 −7.3	0364 N14 47.72 0.0 −0.01	0373 O14 58.16 −10.34 9.98	0382 P14 68.61 −20.68 19.97	0391 Q14 79.06 −31.02 29.96	0400 R14 89.5 −41.36 39.94	0409 S14 34.97 56.77 −21.12	0418 T14 39.73 44.99 −13.83
15	0338 K15 37.21 44.88 −34.85	0347 L15 41.98 33.09 −27.55	0356 M15 46.74 21.3 −20.25	0365 N15 51.5 9.5 −12.95	0374 O15 58.56 −5.76 −1.69	0383 P15 69.02 −16.11 8.29	0392 Q15 79.47 −26.45 18.28	0401 R15 89.91 −36.78 28.26	0410 S15 35.82 58.95 −36.49	0419 T15 40.58 47.17 −29.2
16	0339 K16 41.01 54.39 −47.8	0348 L16 45.78 42.6 −40.5	0357 M16 50.54 30.8 −33.2	0366 N16 55.3 19.01 −25.9	0375 O16 62.36 3.73 −14.64	0384 P16 69.42 −11.53 −3.38	0393 Q16 79.87 −21.88 6.6	0402 R16 90.32 −32.21 16.58	0411 S16 39.62 68.46 −49.44	0420 T16 44.38 56.68 −42.15
17	0340 K17 44.81 63.9 −60.75	0349 L17 49.57 52.11 −53.44	0358 M17 54.34 40.31 −46.15	0367 N17 59.1 28.52 −38.84	0376 O17 66.16 13.24 −27.59	0385 P17 73.22 −2.03 −16.33	0394 Q17 80.28 −17.3 −5.07	0403 R17 90.72 −27.64 4.9	0412 S17 43.42 77.97 −62.39	0421 T17 48.18 66.19 −55.1
18	0341 K18 48.6 73.4 −73.68	0350 L18 53.37 61.6 −66.38	0359 M18 58.13 49.81 −59.08	0368 N18 62.89 38.02 −51.78	0377 O18 69.95 22.74 −40.53	0386 P18 77.01 7.46 −29.27	0395 Q18 84.08 −7.8 −18.01	0404 R18 91.13 −23.07 −6.76	0413 S18 47.21 87.47 −75.33	0422 T18 51.97 75.68 −68.03
19	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 −5.89 76.12	0630 Q19 81.07 −18.09 79.39	0639 R19 91.52 −28.42 89.37	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8
20	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 −3.31 64.78	0631 Q20 81.42 −15.51 68.06	0640 R20 91.86 −25.84 78.04	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47
21	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 −0.72 53.44	0632 Q21 81.76 −12.92 56.71	0641 R21 92.2 −23.25 66.69	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1
22	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 −10.34 45.37	0642 R22 92.55 −20.67 55.35	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73
23	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 −7.75 34.03	0643 R23 92.89 −18.08 44.01	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36
24	0581 K24 53.2 66.4 −13.06	0590 L24 57.96 54.6 −5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 −5.17 22.68	0644 R24 93.24 −15.5 32.66	0653 S24 54.75 87.79 −12.29	0662 T24 59.51 76.0 −5.0
25	0582 K25 54.05 68.58 −28.43	0591 L25 58.82 56.78 −21.13	0600 M25 63.58 44.99 −13.83	0609 N25 68.34 33.2 −6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 −2.58 11.34	0645 R25 93.58 −12.91 21.32	0654 S25 55.6 89.97 −27.66	0663 T25 60.36 78.18 −20.36
26	0583 K26 54.91 70.76 −43.8	0592 L26 59.67 58.96 −36.5	0601 M26 64.43 47.17 −29.2	0610 N26 69.19 35.38 −21.9	0619 O26 73.96 23.58 −14.6	0628 P26 78.72 11.79 −7.3	0637 Q26 83.49 0.0 −0.01	0646 R26 93.92 −10.33 9.97	0655 S26 56.45 92.15 −43.03	0664 T26 61.21 80.36 −35.73
27	0584 K27 58.7 80.26 −56.73	0593 L27 63.46 68.46 −49.43	0602 M27 68.22 56.67 −42.13	0611 N27 72.99 44.88 −34.83	0620 O27 77.75 33.08 −27.53	0629 P27 82.51 21.29 −20.23	0638 Q27 87.27 9.49 −12.93	0647 R27 94.33 −5.76 −1.69	0656 S27 57.3 94.33 −58.38	0665 T27 62.06 82.54 −51.09

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 23.17 −5.16 22.67	0189 V01 33.62 −15.51 32.66	0198 W01 44.07 −25.85 42.65	0207 X01 54.52 −36.19 52.64	0216 Y01 64.97 −46.53 62.62	0225 Z01 75.42 −56.88 72.61	0234 a01 85.87 −67.21 82.59	0729 b01 95.41 0.0 −0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13
02	0181 U02 23.51 −2.58 11.34	0190 V02 33.96 −12.92 21.33	0199 W02 44.41 −23.27 31.31	0208 X02 54.87 −33.61 41.3	0217 Y02 65.32 −43.95 51.29	0226 Z02 75.77 −54.29 61.28	0235 a02 86.21 −64.63 71.26	0730 b02 94.33 −5.76 −1.69	0739 c02 83.49 0.0 −0.01	0748 d02 77.87 9.61 8.06
03	0182 U03 23.87 0.0 −0.01	0191 V03 34.31 −10.34 9.98	0200 W03 44.76 −20.68 19.97	0209 X03 55.21 −31.02 29.96	0218 Y03 65.66 −41.37 39.95	0227 Z03 76.11 −51.71 49.93	0236 a03 86.55 −62.04 59.91	0731 b03 93.26 −11.53 −3.38	0740 c03 82.41 −5.76 −1.69	0749 d03 71.57 0.0 −0.01
04	0183 U04 27.65 9.5 −12.95	0192 V04 34.71 −5.76 −1.69	0201 W04 45.17 −16.11 8.29	0210 X04 55.62 −26.45 18.28	0219 Y04 66.07 −36.79 28.27	0228 Z04 76.52 −47.13 38.25	0237 a04 86.96 −57.47 48.23	0732 b04 92.2 −17.3 −5.07	0741 c04 81.35 −11.53 −3.38	0750 d04 70.49 −5.76 −1.69
05	0184 U05 31.45 19.01 −25.9	0193 V05 38.51 3.73 −14.64	0202 W05 45.57 −11.53 −3.38	0211 X05 56.02 −21.88 6.6	0220 Y05 66.48 −32.22 16.59	0229 Z05 76.93 −42.56 26.57	0238 a05 87.37 −52.89 36.55	0733 b05 91.13 −23.07 −6.76	0742 c05 80.28 −17.3 −5.07	0751 d05 69.42 −11.53 −3.38
06	0185 U06 35.25 28.52 −38.84	0194 V06 42.31 13.24 −27.59	0203 W06 49.37 −2.03 −16.33	0212 X06 56.43 −17.3 −5.07	0221 Y06 66.88 −27.64 4.91	0230 Z06 77.33 −37.99 14.89	0239 a06 87.78 −48.32 24.87	0734 b06 90.07 −28.83 −8.46	0743 c06 79.22 −23.07 −6.77	0752 d06 68.36 −17.3 −5.07
07	0186 U07 39.05 38.03 −51.8	0195 V07 46.11 22.75 −40.54	0204 W07 53.17 7.47 −29.28	0213 X07 60.23 −7.79 −18.02	0222 Y07 67.29 −23.07 −6.77	0231 Z07 77.74 −33.41 3.21	0240 a07 88.18 −43.75 13.19	0735 b07 89.0 −34.6 −10.15	0744 c07 78.15 −28.84 −8.46	0753 d07 67.29 −23.07 −6.77
08	0187 U08 42.84 47.53 −64.75	0196 V08 49.9 32.26 −53.49	0205 W08 56.96 16.98 −42.23	0214 X08 64.03 1.7 −30.97	0223 Y08 71.09 −13.56 −19.71	0232 Z08 78.15 −28.84 −8.46	0241 a08 88.59 −39.17 1.51	0736 b08 87.93 −40.37 −11.84	0745 c08 77.08 −34.61 −10.15	0754 d08 66.22 −28.84 −8.46
09	0188 U09 46.64 57.03 −77.68	0197 V09 53.7 41.76 −66.43	0206 W09 60.76 26.48 −55.17	0215 X09 67.82 11.2 −43.91	0224 Y09 74.88 −4.06 −32.65	0233 Z09 81.94 −19.34 −21.4	0242 a09 89.0 −34.6 −10.15	0737 b09 86.87 −46.14 −13.53	0746 c09 76.02 −40.37 −11.84	0755 d09 65.16 −34.6 −10.15
10	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 −0.72 53.43	0450 X10 57.91 −12.92 56.7	0459 Y10 68.36 −23.26 66.69	0468 Z10 78.81 −33.6 76.68	0477 a10 89.26 −43.94 86.66	0810 b10 95.41 0.0 −0.01	0819 c10 95.05 −2.58 11.33	0828 d10 94.71 −5.16 22.67
11	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 −10.34 45.37	0460 Y11 68.71 −20.68 55.36	0469 Z11 79.16 −31.02 65.35	0478 a11 89.6 −41.35 75.32	0811 b11 87.27 9.49 −12.93	0820 c11 83.49 0.0 −0.01	0829 d11 83.14 −2.58 11.34
12	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 −7.75 34.03	0461 Y12 69.05 −18.09 44.01	0470 Z12 79.5 −28.43 54.0	0479 a12 89.94 −38.77 63.98	0812 b12 79.15 19.0 −25.88	0821 c12 75.35 9.5 −12.95	0830 d12 71.57 0.0 −0.01
13	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 −5.17 22.68	0462 Y13 69.39 −15.51 32.67	0471 Z13 79.85 −25.85 42.66	0480 a13 90.29 −36.18 52.64	0813 b13 71.02 28.51 −38.83	0822 c13 67.23 19.01 −25.9	0831 d13 63.43 9.5 −12.95
14	0427 U14 44.49 33.2 −6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 −2.58 11.34	0463 Y14 69.74 −12.92 21.33	0472 Z14 80.19 −23.27 31.31	0481 a14 90.63 −33.6 41.29	0814 b14 62.89 38.02 −51.78	0823 c14 59.1 28.52 −38.84	0832 d14 55.3 19.01 −25.9
15	0428 U15 45.34 35.38 −21.9	0437 V15 50.11 23.58 −14.6	0446 W15 54.87 11.79 −7.3	0455 X15 59.64 0.0 −0.01	0464 Y15 70.08 −10.34 9.98	0473 Z15 80.53 −20.68 19.97	0482 a15 90.98 −31.01 29.95	0815 b15 54.76 47.52 −64.73	0824 c15 50.97 38.03 −51.8	0833 d15 47.17 28.52 −38.84
16	0429 U16 49.14 44.88 −34.85	0438 V16 53.9 33.09 −27.55	0447 W16 58.67 21.3 −20.25	0456 X16 63.43 9.5 −12.95	0465 Y16 70.49 −5.76 −1.69	0474 Z16 80.94 −16.11 8.29	0483 a16 91.38 −26.44 18.27	0816 b16 46.64 57.03 −77.68	0825 c16 42.84 47.53 −64.75	0834 d16 39.05 38.03 −51.8
17	0430 U17 52.94 54.39 −47.8	0439 V17 57.7 42.6 −40.5	0448 W17 62.46 30.8 −33.2	0457 X17 67.23 19.01 −25.9	0466 Y17 74.29 3.73 −14.64	0475 Z17 81.35 −11.53 −3.38	0484 a17 91.79 −21.87 6.59	0817 b17 38.51 66.54 −90.63	0826 c17 34.71 57.04 −77.69	0835 d17 30.92 47.53 −64.75
18	0431 U18 56.73 63.89 −60.73	0440 V18 61.49 52.1 −53.43	0449 W18 66.26 40.3 −46.13	0458 X18 71.02 28.51 −38.83	0467 Y18 78.08 13.23 −27.58	0476 Z18 85.14 −2.03 −16.32	0485 a18 92.2 −17.3 −5.07	0818 b18 30.39 76.04 −103.57	0827 c18 26.59 66.54 −90.63	0836 d18 22.8 57.03 −77.68
19	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 −8.48 87.45	0720 a19 92.65 −20.67 90.73	0891 b19 95.41 0.0 −0.01	0900 c19 93.92 −10.33 9.97	0909 d19 92.45 −20.67 19.96
20	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 −5.9 76.12	0721 a20 92.99 −18.09 79.39	0892 b20 90.64 11.78 −7.29	0901 c20 83.49 0.0 −0.01	0910 d20 82.01 −10.34 9.98
21	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 −3.31 64.78	0722 a21 93.33 −15.5 68.05	0893 b21 85.87 23.57 −14.59	0902 c21 78.72 11.79 −7.3	0911 d21 71.57 0.0 −0.01
22	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 −0.73 53.43	0723 a22 93.68 −12.92 56.7	0894 b22 81.11 35.37 −21.89	0903 c22 73.96 23.58 −14.6	0912 d22 66.79 11.79 −7.3
23	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 −10.33 45.36	0895 b23 76.35 47.16 −29.19	0904 c23 69.19 35.38 −21.9	0913 d23 62.03 23.58 −14.6
24	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 −7.75 34.02	0896 b24 71.59 58.95 −36.49	0905 c24 64.43 47.17 −29.2	0914 d24 57.27 35.38 −21.9
25	0672 U25 65.12 66.39 −13.06	0681 V25 69.88 54.6 −5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 −5.16 22.67	0897 b25 66.82 70.75 −43.79	0906 c25 59.67 58.96 −36.5	0915 d25 52.51 47.17 −29.2
26	0673 U26 65.97 68.57 −28.43	0682 V26 70.74 56.78 −21.13	0691 W26 75.5 44.98 −13.83	0700 X26 80.26 33.19 −6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 −2.58 11.33	0898 b26 62.06 82.54 −51.09	0907 c26 54.91 70.76 −43.8	0916 d26 47.74 58.96 −36.5
27	0674 U27 66.82 70.75 −43.79	0683 V27 71.59 58.95 −36.49	0692 W27 76.35 47.16 −29.19	0701 X27 81.11 35.37 −21.89	0710 Y27 85.87 23.57 −14.59	0719 Z27 90.64 11.78 −7.29	0728 a27 95.41 0.0 −0.01	0899 b27 57.3 94.33 −58.38	0908 c27 50.15 82.54 −51.09	0917 d27 42.98 70.75 −43.79

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53	0972 k01 0.03 0.0 −0.01	0981 l01 0.03 0.0 −0.01	0990 m01 0.03 0.0 −0.01	0999 n01 0.03 0.0 −0.01
02	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4	0974 k03 23.87 0.0 −0.01	0983 l03 23.87 0.0 −0.01	0992 m03 23.87 0.0 −0.01	1001 n03 23.87 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 58.56 −5.76 −1.69	0769 f05 47.72 0.0 −0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26	0976 k05 47.72 0.0 −0.01	0985 l05 47.72 0.0 −0.01	0994 m05 47.72 0.0 −0.01	1003 n05 47.72 0.0 −0.01
06	0761 e06 57.5 −11.53 −3.38	0770 f06 46.64 −5.76 −1.69	0779 g06 35.79 0.0 −0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 56.43 −17.3 −5.07	0771 f07 45.57 −11.53 −3.38	0780 g07 34.71 −5.76 −1.69	0789 h07 23.87 0.0 −0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13	0978 k07 71.57 0.0 −0.01	0987 l07 71.57 0.0 −0.01	0996 m07 71.57 0.0 −0.01	1005 n07 71.57 0.0 −0.01
08	0763 e08 55.36 −23.07 −6.77	0772 f08 44.51 −17.3 −5.07	0781 g08 33.65 −11.53 −3.38	0790 h08 22.79 −5.76 −1.69	0799 i08 11.94 0.0 −0.01	0808 j08 6.32 9.6 8.06	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 54.3 −28.83 −8.46	0773 f09 43.44 −23.07 −6.76	0782 g09 32.58 −17.3 −5.07	0791 h09 21.72 −11.53 −3.38	0800 i09 10.86 −5.76 −1.69	0809 j09 0.03 0.0 −0.01	0980 k09 95.41 0.0 −0.01	0989 l09 95.41 0.0 −0.01	0998 m09 95.41 0.0 −0.01	1007 n09 95.41 0.0 −0.01
10	0837 e10 94.36 −7.75 34.02	0846 f10 94.02 −10.33 45.36	0855 g10 93.68 −12.92 56.7	0864 h10 93.33 −15.5 68.05	0873 i10 92.99 −18.09 79.39	0882 j10 92.65 −20.67 90.73	1008 k10 0.03 0.0 −0.01	1024 l10 0.03 0.0 −0.01	1040 m10 0.03 0.0 −0.01	1056 n10 0.03 0.0 −0.01
11	0838 e11 82.79 −5.17 22.68	0847 f11 82.45 −7.75 34.03	0856 g11 82.11 −10.34 45.37	0865 h11 81.76 −12.92 56.71	0874 i11 81.42 −15.51 68.06	0883 j11 81.07 −18.09 79.39	1009 k11 6.38 0.0 −0.01	1025 l11 6.38 0.0 −0.01	1041 m11 6.38 0.0 −0.01	1057 n11 6.38 0.0 −0.01
12	0839 e12 71.21 −2.58 11.34	0848 f12 70.87 −5.17 22.68	0857 g12 70.52 −7.75 34.03	0866 h12 70.18 −10.34 45.37	0875 i12 69.84 −12.92 56.71	0884 j12 69.49 −15.5 68.05	1010 k12 12.74 0.0 −0.01	1026 l12 12.74 0.0 −0.01	1042 m12 12.74 0.0 −0.01	1058 n12 12.74 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 59.29 −2.58 11.34	0858 g13 58.94 −5.17 22.68	0867 h13 58.6 −7.75 34.03	0876 i13 58.26 −10.34 45.37	0885 j13 57.91 −12.92 56.7	1011 k13 19.1 0.0 −0.01	1027 l13 19.1 0.0 −0.01	1043 m13 19.1 0.0 −0.01	1059 n13 19.1 0.0 −0.01
14	0841 e14 51.5 9.5 −12.95	0850 f14 47.72 0.0 −0.01	0859 g14 47.36 −2.58 11.34	0868 h14 47.02 −5.17 22.68	0877 i14 46.67 −7.75 34.03	0886 j14 46.33 −10.33 45.36	1012 k14 25.46 0.0 −0.01	1028 l14 25.46 0.0 −0.01	1044 m14 25.46 0.0 −0.01	1060 n14 25.46 0.0 −0.01
15	0842 e15 43.38 19.01 −25.9	0851 f15 39.58 9.5 −12.95	0860 g15 35.79 0.0 −0.01	0869 h15 35.44 −2.58 11.34	0878 i15 35.09 −5.17 22.68	0887 j15 34.75 −7.75 34.02	1013 k15 31.82 0.0 −0.01	1029 l15 31.82 0.0 −0.01	1045 m15 31.82 0.0 −0.01	1061 n15 31.82 0.0 −0.01
16	0843 e16 35.25 28.52 −38.84	0852 f16 31.45 19.01 −25.9	0861 g16 27.65 9.5 −12.95	0870 h16 23.87 0.0 −0.01	0879 i16 23.51 −2.58 11.34	0888 j16 23.17 −5.16 22.67	1014 k16 38.18 0.0 −0.01	1030 l16 38.18 0.0 −0.01	1046 m16 38.18 0.0 −0.01	1062 n16 38.18 0.0 −0.01
17	0844 e17 27.12 38.03 −51.8	0853 f17 23.32 28.52 −38.84	0862 g17 19.53 19.01 −25.9	0871 h17 15.73 9.5 −12.95	0880 i17 11.94 0.0 −0.01	0889 j17 11.59 −2.58 11.33	1015 k17 44.54 0.0 −0.01	1031 l17 44.54 0.0 −0.01	1047 m17 44.54 0.0 −0.01	1063 n17 44.54 0.0 −0.01
18	0845 e18 19.0 47.52 −64.73	0854 f18 15.2 38.02 −51.78	0863 g18 11.4 28.51 −38.83	0872 h18 7.61 19.0 −25.88	0881 i18 3.81 9.49 −12.93	0890 j18 0.03 0.0 −0.01	1016 k18 50.9 0.0 −0.01	1032 l18 50.9 0.0 −0.01	1048 m18 50.9 0.0 −0.01	1064 n18 50.9 0.0 −0.01
19	0918 e19 90.98 −31.01 29.95	0927 f19 89.5 −41.36 39.94	0936 g19 88.03 −51.7 49.92	0945 h19 86.55 −62.04 59.91	0954 i19 85.08 −72.38 69.9	0963 j19 83.61 −82.72 79.88	1017 k19 57.26 0.0 −0.01	1033 l19 57.26 0.0 −0.01	1049 m19 57.26 0.0 −0.01	1065 n19 57.26 0.0 −0.01
20	0919 e20 80.53 −20.68 19.97	0928 f20 79.06 −31.02 29.96	0937 g20 77.59 −41.37 39.95	0946 h20 76.11 −51.71 49.93	0955 i20 74.64 −62.05 59.92	0964 j20 73.16 −72.38 69.9	1018 k20 63.62 0.0 −0.01	1034 l20 63.62 0.0 −0.01	1050 m20 63.62 0.0 −0.01	1066 n20 63.62 0.0 −0.01
21	0920 e21 70.08 −10.34 9.98	0929 f21 68.61 −20.68 19.97	0938 g21 67.13 −31.02 29.96	0947 h21 65.66 −41.37 39.95	0956 i21 64.19 −51.71 49.93	0965 j21 62.71 −62.04 59.91	1019 k21 69.98 0.0 −0.01	1035 l21 69.98 0.0 −0.01	1051 m21 69.98 0.0 −0.01	1067 n21 69.98 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 58.16 −10.34 9.98	0939 g22 56.68 −20.68 19.97	0948 h22 55.21 −31.02 29.96	0957 i22 53.74 −41.37 39.95	0966 j22 52.26 −51.7 49.92	1020 k22 76.34 0.0 −0.01	1036 l22 76.34 0.0 −0.01	1052 m22 76.34 0.0 −0.01	1068 n22 76.34 0.0 −0.01
23	0922 e23 54.87 11.79 −7.3	0931 f23 47.72 0.0 −0.01	0940 g23 46.23 −10.34 9.98	0949 h23 44.76 −20.68 19.97	0958 i23 43.28 −31.02 29.96	0967 j23 41.81 −41.36 39.94	1021 k23 82.7 0.0 −0.01	1037 l23 82.7 0.0 −0.01	1053 m23 82.7 0.0 −0.01	1069 n23 82.7 0.0 −0.01
24	0923 e24 50.11 23.58 −14.6	0932 f24 42.94 11.79 −7.3	0941 g24 35.79 0.0 −0.01	0950 h24 34.31 −10.34 9.98	0959 i24 32.83 −20.68 19.97	0968 j24 31.36 −31.01 29.95	1022 k24 89.06 0.0 −0.01	1038 l24 89.06 0.0 −0.01	1054 m24 89.06 0.0 −0.01	1070 n24 89.06 0.0 −0.01
25	0924 e25 45.34 35.38 −21.9	0933 f25 38.18 23.58 −14.6	0942 g25 31.02 11.79 −7.3	0951 h25 23.87 0.0 −0.01	0960 i25 22.38 −10.34 9.98	0969 j25 20.91 −20.67 19.96	1023 k25 95.41 0.0 −0.01	1039 l25 95.41 0.0 −0.01	1055 m25 95.41 0.0 −0.01	1071 n25 95.41 0.0 −0.01
26	0925 e26 40.58 47.17 −29.2	0934 f26 33.42 35.38 −21.9	0943 g26 26.26 23.58 −14.6	0952 h26 19.09 11.79 −7.3	0961 i26 11.94 0.0 −0.01	0970 j26 10.46 −10.33 9.97	1072 k26 0.03 0.0 −0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 −20.67 90.73	1078 n26 83.61 −82.72 79.88
27	0926 e27 35.82 58.95 −36.49	0935 f27 28.66 47.16 −29.19	0944 g27 21.5 35.37 −21.89	0953 h27 14.33 23.57 −14.59	0962 i27 7.17 11.78 −7.29	0971 j27 0.03 0.0 −0.01	1073 k27 95.41 0.0 −0.01	1075 l27 86.87 −46.14 −13.53	1077 m27 30.39 76.04 −103.57	1079 n27 57.3 94.33 −58.38

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 17/4, TLS27

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.03 0.0 −0.01	0009 B01 10.46 −10.33 9.97	0018 C01 20.91 −20.67 19.96	0027 D01 31.36 −31.01 29.95	0036 E01 41.81 −41.36 39.94	0045 F01 52.26 −51.7 49.92	0054 G01 62.71 −62.04 59.91	0063 H01 73.16 −72.38 69.9	0072 I01 83.61 −82.72 79.88	0081 J01 6.32 9.6 8.06
02	0001 A02 3.81 9.49 −12.93	0010 B02 10.86 −5.76 −1.69	0019 C02 21.32 −16.1 8.29	0028 D02 31.77 −26.44 18.28	0037 E02 42.22 −36.79 28.27	0046 F02 52.67 −47.13 38.25	0055 G02 63.12 −57.47 48.24	0064 H02 73.57 −67.81 58.23	0073 I02 84.01 −78.15 68.21	0082 J02 7.17 11.78 −7.29
03	0002 A03 7.61 19.0 −25.88	0011 B03 14.66 3.74 −14.64	0020 C03 21.72 −11.53 −3.38	0029 D03 32.17 −21.87 6.6	0038 E03 42.63 −32.21 16.59	0047 F03 53.08 −42.56 26.57	0056 G03 63.53 −52.9 36.56	0065 H03 73.98 −63.24 46.55	0074 I03 84.42 −73.57 56.53	0083 J03 10.97 21.29 −20.24
04	0003 A04 11.4 28.51 −38.83	0012 B04 18.46 13.25 −27.59	0021 C04 25.52 −2.02 −16.33	0030 D04 32.58 −17.3 −5.07	0039 E04 43.03 −27.64 4.91	0048 F04 53.48 −37.98 14.89	0057 G04 63.94 −48.32 24.88	0066 H04 74.39 −58.67 34.87	0075 I04 84.83 −69.0 44.85	0084 J04 14.77 30.79 −33.19
05	0004 A05 15.2 38.02 −51.78	0013 B05 22.26 22.75 −40.54	0022 C05 29.32 7.48 −29.28	0031 D05 36.38 −7.79 −18.02	0040 E05 43.44 −23.07 −6.76	0049 F05 53.89 −33.41 3.21	0058 G05 64.34 −43.75 13.2	0067 H05 74.79 −54.09 23.19	0076 I05 85.24 −64.43 33.17	0085 J05 18.56 40.3 −46.14
06	0005 A06 19.0 47.52 −64.73	0014 B06 26.05 32.26 −53.49	0023 C06 33.12 16.98 −42.23	0032 D06 40.18 1.71 −30.97	0041 E06 47.24 −13.56 −19.71	0050 F06 54.3 −28.83 −8.46	0059 G06 64.75 −39.18 1.52	0068 H06 75.2 −49.52 11.51	0077 I06 85.64 −59.85 21.49	0086 J06 22.36 49.81 −59.09
07	0006 A07 22.8 57.03 −77.68	0015 B07 29.85 41.77 −66.44	0024 C07 36.91 26.49 −55.18	0033 D07 43.97 11.22 −43.92	0042 E07 51.04 −4.05 −32.66	0051 F07 58.1 −19.33 −21.41	0060 G07 65.16 −34.6 −10.15	0069 H07 75.61 −44.95 −0.16	0078 I07 86.05 −55.28 9.81	0087 J07 26.16 59.32 −72.04
08	0007 A08 26.59 66.54 −90.63	0016 B08 33.65 51.28 −79.39	0025 C08 40.71 36.0 −68.13	0034 D08 47.77 20.72 −56.87	0043 E08 54.83 5.45 −45.61	0052 F08 61.89 −9.82 −34.36	0061 G08 68.96 −25.1 −23.1	0070 H08 76.02 −40.37 −11.84	0079 I08 86.46 −50.71 −1.86	0088 J08 29.96 68.82 −84.99
09	0008 A09 30.39 76.04 −103.57	0017 B09 37.44 60.78 −92.33	0026 C09 44.51 45.5 −81.07	0035 D09 51.57 30.22 −69.81	0044 E09 58.63 14.95 −58.55	0053 F09 65.69 −0.32 −47.3	0062 G09 72.75 −15.6 −36.04	0071 H09 79.81 −30.87 −24.78	0080 I09 86.87 −46.14 −13.53	0089 J09 33.75 78.32 −97.93
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 −7.75 34.02	0279 E10 45.2 −18.09 44.0	0288 F10 55.65 −28.43 53.99	0297 G10 66.1 −38.78 63.98	0306 H10 76.55 −49.12 73.97	0315 I10 87.0 −59.45 83.95	0324 J10 25.25 38.44 32.26
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 −5.17 22.68	0280 E11 45.54 −15.51 32.67	0289 F11 55.99 −25.85 42.66	0298 G11 66.45 −36.19 52.65	0307 H11 76.9 −46.54 62.63	0316 I11 87.34 −56.87 72.61	0325 J11 26.11 40.62 16.91
12	0245 A12 20.65 33.19 −6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 −2.58 11.34	0281 E12 45.89 −12.92 21.33	0290 F12 56.34 −23.27 31.31	0299 G12 66.79 −33.61 41.3	0308 H12 77.24 −43.95 51.29	0317 I12 87.68 −54.28 61.27	0326 J12 26.96 42.8 1.54
13	0246 A13 21.5 35.37 −21.89	0255 B13 26.26 23.58 −14.6	0264 C13 31.02 11.79 −7.3	0273 D13 35.79 0.0 −0.01	0282 E13 46.23 −10.34 9.98	0291 F13 56.68 −20.68 19.97	0300 G13 67.13 −31.02 29.96	0309 H13 77.59 −41.37 39.95	0318 I13 88.03 −51.7 49.92	0327 J13 27.81 44.98 −13.82
14	0247 A14 25.29 44.87 −34.84	0256 B14 30.05 33.09 −27.55	0265 C14 34.82 21.3 −20.25	0274 D14 39.58 9.5 −12.95	0283 E14 46.64 −5.76 −1.69	0292 F14 57.09 −16.11 8.29	0301 G14 67.54 −26.45 18.28	0310 H14 77.99 −36.79 28.27	0319 I14 88.44 −47.13 38.24	0328 J14 28.66 47.16 −29.19
15	0248 A15 29.09 54.38 −47.79	0257 B15 33.85 42.6 −40.5	0266 C15 38.61 30.8 −33.2	0275 D15 43.38 19.01 −25.9	0284 E15 50.44 3.73 −14.64	0293 F15 57.5 −11.53 −3.38	0302 G15 67.95 −21.88 6.6	0311 H15 78.4 −32.22 16.59	0320 I15 88.84 −42.55 26.56	0329 J15 32.46 56.67 −42.14
16	0249 A16 32.89 63.89 −60.74	0258 B16 37.65 52.11 −53.44	0267 C16 42.41 40.31 −46.15	0276 D16 47.17 28.52 −38.84	0285 E16 54.23 13.24 −27.59	0294 F16 61.3 −2.03 −16.33	0303 G16 68.36 −17.3 −5.07	0312 H16 78.81 −27.64 4.91	0321 I16 89.25 −37.98 14.88	0330 J16 36.25 66.18 −55.09
17	0250 A17 36.69 73.4 −73.69	0259 B17 41.45 61.61 −66.4	0268 C17 46.21 49.82 −59.1	0277 D17 50.97 38.03 −51.8	0286 E17 58.03 22.75 −40.54	0295 F17 65.09 7.47 −29.28	0304 G17 72.15 −7.79 −18.02	0313 H17 79.22 −23.07 −6.77	0322 I17 89.66 −33.4 3.2	0331 J17 40.05 75.68 −68.04
18	0251 A18 40.48 82.9 −86.63	0260 B18 45.24 71.11 −79.33	0269 C18 50.0 59.32 −72.03	0278 D18 54.76 47.52 −64.73	0287 E18 61.83 32.25 −53.48	0296 F18 68.89 16.97 −42.22	0305 G18 75.95 1.7 −30.96	0314 H18 83.01 −13.57 −19.7	0323 I18 90.07 −28.83 −8.46	0332 J18 43.85 85.18 −80.98
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 −3.3 64.77	0540 G19 69.49 −15.5 68.05	0549 H19 79.94 −25.85 78.04	0558 I19 90.39 −36.18 88.02	0567 J19 44.19 67.28 56.47
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 −0.72 53.44	0541 G20 69.84 −12.92 56.71	0550 H20 80.29 −23.26 66.7	0559 I20 90.73 −33.6 76.68	0568 J20 45.04 69.46 41.11
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 −10.34 45.37	0551 H21 80.63 −20.68 55.36	0560 I21 91.07 −31.01 65.34	0569 J21 45.89 71.64 25.74
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 −7.75 34.03	0552 H22 80.98 −18.09 44.01	0561 I22 91.42 −28.43 53.99	0570 J22 46.74 73.82 10.38
23	0490 A23 41.28 66.39 −13.05	0499 B23 46.04 54.6 −5.76	0508 C23 50.8 42.81 1.53	0517 D23 55.57 31.02 8.83	0526 E23 60.33 19.22 16.13	0535 F23 65.6 7.02 19.41	0544 G23 70.87 −5.17 22.68	0553 H23 81.32 −15.51 32.67	0562 I23 91.76 −25.84 42.65	0571 J23 47.59 76.0 −4.98
24	0491 A24 42.13 68.57 −28.42	0500 B24 46.89 56.78 −21.13	0509 C24 51.65 44.99 −13.83	0518 D24 56.42 33.2 −6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 −2.58 11.34	0554 H24 81.66 −12.92 21.33	0563 I24 92.11 −23.26 31.31	0572 J24 48.44 78.18 −20.35
25	0492 A25 42.98 70.75 −43.79	0501 B25 47.74 58.96 −36.5	0510 C25 52.51 47.17 −29.2	0519 D25 57.27 35.38 −21.9	0528 E25 62.03 23.58 −14.6	0537 F25 66.79 11.79 −7.3	0546 G25 71.57 0.0 −0.01	0555 H25 82.01 −10.34 9.98	0564 I25 92.45 −20.67 19.96	0573 J25 49.3 80.36 −35.72
26	0493 A26 46.78 80.26 −56.74	0502 B26 51.54 68.47 −49.45	0511 C26 56.3 56.68 −42.15	0520 D26 61.07 44.88 −34.85	0529 E26 65.83 33.09 −27.55	0538 F26 70.59 21.3 −20.25	0547 G26 75.35 9.5 −12.95	0556 H26 82.41 −5.76 −1.69	0565 I26 92.86 −16.1 8.28	0574 J26 50.15 82.54 −51.09
27	0494 A27 50.58 89.76 −69.68	0503 B27 55.33 77.97 −62.38	0512 C27 60.1 66.18 −55.08	0521 D27 64.86 54.38 −47.78	0530 E27 69.62 42.59 −40.48	0539 F27 74.38 30.8 −33.18	0548 G27 79.15 19.0 −25.88	0557 H27 86.21 3.73 −14.63	0566 I27 93.26 −11.53 −3.38	0575 J27 53.94 92.04 −64.03

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.59 −2.58 11.33	0099 L01 22.04 −12.92 21.32	0108 M01 32.49 −23.26 31.3	0117 N01 42.94 −33.61 41.29	0126 O01 53.39 −43.95 51.28	0135 P01 63.84 −54.29 61.27	0144 Q01 74.29 −64.63 71.25	0153 R01 84.74 −74.97 81.23	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4
02	0091 K02 11.94 0.0 −0.01	0100 L02 22.38 −10.34 9.98	0109 M02 32.83 −20.68 19.97	0118 N02 43.28 −31.02 29.96	0127 O02 53.74 −41.37 39.95	0136 P02 64.19 −51.71 49.93	0145 Q02 74.64 −62.05 59.92	0154 R02 85.08 −72.38 69.9	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06
03	0092 K03 15.73 9.5 −12.95	0101 L03 22.79 −5.76 −1.69	0110 M03 33.24 −16.11 8.29	0119 N03 43.69 −26.45 18.28	0128 O03 54.14 −36.79 28.27	0137 P03 64.59 −47.13 38.25	0146 Q03 75.05 −57.48 48.24	0155 R03 85.49 −67.81 58.22	0164 S03 14.33 23.57 −14.59	0173 T03 19.09 11.79 −7.3
04	0093 K04 19.53 19.01 −25.9	0102 L04 26.59 3.73 −14.64	0111 M04 33.65 −11.53 −3.38	0120 N04 44.1 −21.88 6.6	0129 O04 54.55 −32.22 16.59	0138 P04 65.0 −42.56 26.57	0147 Q04 75.45 −52.9 36.56	0156 R04 85.9 −63.24 46.54	0165 S04 18.13 33.08 −27.54	0174 T04 22.89 21.3 −20.25
05	0094 K05 23.32 28.52 −38.84	0103 L05 30.38 13.24 −27.59	0112 M05 37.44 −2.03 −16.33	0121 N05 44.51 −17.3 −5.07	0130 O05 54.96 −27.64 4.91	0139 P05 65.41 −37.99 14.89	0148 Q05 75.86 −48.33 24.88	0157 R05 86.3 −58.66 34.86	0166 S05 21.93 42.59 −40.49	0175 T05 26.69 30.8 −33.2
06	0095 K06 27.12 38.03 −51.8	0104 L06 34.18 22.75 −40.54	0113 M06 41.24 7.47 −29.28	0122 N06 48.3 −7.79 −18.02	0131 O06 55.36 −23.07 −6.77	0140 P06 65.82 −33.41 3.21	0149 Q06 76.27 −43.76 13.2	0158 R06 86.71 −54.09 23.18	0167 S06 25.73 52.1 −53.44	0176 T06 30.49 40.31 −46.15
07	0096 K07 30.92 47.53 −64.75	0105 L07 37.98 32.26 −53.49	0114 M07 45.04 16.98 −42.23	0123 N07 52.1 1.7 −30.97	0132 O07 59.16 −13.56 −19.71	0141 P07 66.22 −28.84 −8.46	0150 Q07 76.68 −39.18 1.52	0159 R07 87.12 −49.52 11.5	0168 S07 29.52 61.6 −66.39	0177 T07 34.28 49.82 −59.1
08	0097 K08 34.71 57.04 −77.69	0106 L08 41.78 41.76 −66.44	0115 M08 48.84 26.49 −55.18	0124 N08 55.9 11.21 −43.92	0133 O08 62.96 −4.06 −32.66	0142 P08 70.02 −19.33 −21.41	0151 Q08 77.08 −34.61 −10.15	0160 R08 87.53 −44.94 −0.17	0169 S08 33.32 71.11 −79.34	0178 T08 38.08 59.33 −72.05
09	0098 K09 38.51 66.54 −90.63	0107 L09 45.57 51.26 −79.38	0116 M09 52.63 35.99 −68.12	0125 N09 59.69 20.71 −56.86	0134 O09 66.75 5.43 −45.6	0143 P09 73.82 −9.83 −34.35	0152 Q09 80.88 −25.11 −23.09	0161 R09 87.93 −40.37 −11.84	0170 S09 37.12 80.61 −92.28	0179 T09 41.87 68.83 −84.98
10	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 −10.33 45.36	0369 O10 56.78 −20.68 55.35	0378 P10 67.23 −31.02 65.34	0387 Q10 77.68 −41.36 75.32	0396 R10 88.13 −51.69 85.3	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6
11	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 −7.75 34.03	0370 O11 57.13 −18.09 44.01	0379 P11 67.58 −28.43 54.0	0388 Q11 78.03 −38.78 63.99	0397 R11 88.47 −49.11 73.97	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27
12	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 −5.17 22.68	0371 O12 57.47 −15.51 32.67	0380 P12 67.92 −25.85 42.66	0389 Q12 78.37 −36.19 52.65	0398 R12 88.81 −46.53 62.62	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9
13	0336 K13 32.57 33.2 −6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 −2.58 11.34	0372 O13 57.81 −12.92 21.33	0381 P13 68.26 −23.27 31.31	0390 Q13 78.72 −33.61 41.3	0399 R13 89.16 −43.94 51.28	0408 S13 34.12 54.59 −5.75	0417 T13 38.88 42.81 1.53
14	0337 K14 33.42 35.38 −21.9	0346 L14 38.18 23.58 −14.6	0355 M14 42.94 11.79 −7.3	0364 N14 47.72 0.0 −0.01	0373 O14 58.16 −10.34 9.98	0382 P14 68.61 −20.68 19.97	0391 Q14 79.06 −31.02 29.96	0400 R14 89.5 −41.36 39.94	0409 S14 34.97 56.77 −21.12	0418 T14 39.73 44.99 −13.83
15	0338 K15 37.21 44.88 −34.85	0347 L15 41.98 33.09 −27.55	0356 M15 46.74 21.3 −20.25	0365 N15 51.5 9.5 −12.95	0374 O15 58.56 −5.76 −1.69	0383 P15 69.02 −16.11 8.29	0392 Q15 79.47 −26.45 18.28	0401 R15 89.91 −36.78 28.26	0410 S15 35.82 58.95 −36.49	0419 T15 40.58 47.17 −29.2
16	0339 K16 41.01 54.39 −47.8	0348 L16 45.78 42.6 −40.5	0357 M16 50.54 30.8 −33.2	0366 N16 55.3 19.01 −25.9	0375 O16 62.36 3.73 −14.64	0384 P16 69.42 −11.53 −3.38	0393 Q16 79.87 −21.88 6.6	0402 R16 90.32 −32.21 16.58	0411 S16 39.62 68.46 −49.44	0420 T16 44.38 56.68 −42.15
17	0340 K17 44.81 63.9 −60.75	0349 L17 49.57 52.11 −53.44	0358 M17 54.34 40.31 −46.15	0367 N17 59.1 28.52 −38.84	0376 O17 66.16 13.24 −27.59	0385 P17 73.22 −2.03 −16.33	0394 Q17 80.28 −17.3 −5.07	0403 R17 90.72 −27.64 4.9	0412 S17 43.42 77.97 −62.39	0421 T17 48.18 66.19 −55.1
18	0341 K18 48.6 73.4 −73.68	0350 L18 53.37 61.6 −66.38	0359 M18 58.13 49.81 −59.08	0368 N18 62.89 38.02 −51.78	0377 O18 69.95 22.74 −40.53	0386 P18 77.01 7.46 −29.27	0395 Q18 84.08 −7.8 −18.01	0404 R18 91.13 −23.07 −6.76	0413 S18 47.21 87.47 −75.33	0422 T18 51.97 75.68 −68.03
19	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 −5.89 76.12	0630 Q19 81.07 −18.09 79.39	0639 R19 91.52 −28.42 89.37	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8
20	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 −3.31 64.78	0631 Q20 81.42 −15.51 68.06	0640 R20 91.86 −25.84 78.04	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47
21	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 −0.72 53.44	0632 Q21 81.76 −12.92 56.71	0641 R21 92.2 −23.25 66.69	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1
22	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 −10.34 45.37	0642 R22 92.55 −20.67 55.35	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73
23	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 −7.75 34.03	0643 R23 92.89 −18.08 44.01	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36
24	0581 K24 53.2 66.4 −13.06	0590 L24 57.96 54.6 −5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 −5.17 22.68	0644 R24 93.24 −15.5 32.66	0653 S24 54.75 87.79 −12.29	0662 T24 59.51 76.0 −5.0
25	0582 K25 54.05 68.58 −28.43	0591 L25 58.82 56.78 −21.13	0600 M25 63.58 44.99 −13.83	0609 N25 68.34 33.2 −6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 −2.58 11.34	0645 R25 93.58 −12.91 21.32	0654 S25 55.6 89.97 −27.66	0663 T25 60.36 78.18 −20.36
26	0583 K26 54.91 70.76 −43.8	0592 L26 59.67 58.96 −36.5	0601 M26 64.43 47.17 −29.2	0610 N26 69.19 35.38 −21.9	0619 O26 73.96 23.58 −14.6	0628 P26 78.72 11.79 −7.3	0637 Q26 83.49 0.0 −0.01	0646 R26 93.92 −10.33 9.97	0655 S26 56.45 92.15 −43.03	0664 T26 61.21 80.36 −35.73
27	0584 K27 58.7 80.26 −56.73	0593 L27 63.46 68.46 −49.43	0602 M27 68.22 56.67 −42.13	0611 N27 72.99 44.88 −34.83	0620 O27 77.75 33.08 −27.53	0629 P27 82.51 21.29 −20.23	0638 Q27 87.27 9.49 −12.93	0647 R27 94.33 −5.76 −1.69	0656 S27 57.3 94.33 −58.38	0665 T27 62.06 82.54 −51.09

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 23.17 −5.16 22.67	0189 V01 33.62 −15.51 32.66	0198 W01 44.07 −25.85 42.65	0207 X01 54.52 −36.19 52.64	0216 Y01 64.97 −46.53 62.62	0225 Z01 75.42 −56.88 72.61	0234 a01 85.87 −67.21 82.59	0729 b01 95.41 0.0 −0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13
02	0181 U02 23.51 −2.58 11.34	0190 V02 33.96 −12.92 21.33	0199 W02 44.41 −23.27 31.31	0208 X02 54.87 −33.61 41.3	0217 Y02 65.32 −43.95 51.29	0226 Z02 75.77 −54.29 61.28	0235 a02 86.21 −64.63 71.26	0730 b02 94.33 −5.76 −1.69	0739 c02 83.49 0.0 −0.01	0748 d02 77.87 9.61 8.06
03	0182 U03 23.87 0.0 −0.01	0191 V03 34.31 −10.34 9.98	0200 W03 44.76 −20.68 19.97	0209 X03 55.21 −31.02 29.96	0218 Y03 65.66 −41.37 39.95	0227 Z03 76.11 −51.71 49.93	0236 a03 86.55 −62.04 59.91	0731 b03 93.26 −11.53 −3.38	0740 c03 82.41 −5.76 −1.69	0749 d03 71.57 0.0 −0.01
04	0183 U04 27.65 9.5 −12.95	0192 V04 34.71 −5.76 −1.69	0201 W04 45.17 −16.11 8.29	0210 X04 55.62 −26.45 18.28	0219 Y04 66.07 −36.79 28.27	0228 Z04 76.52 −47.13 38.25	0237 a04 86.96 −57.47 48.23	0732 b04 92.2 −17.3 −5.07	0741 c04 81.35 −11.53 −3.38	0750 d04 70.49 −5.76 −1.69
05	0184 U05 31.45 19.01 −25.9	0193 V05 38.51 3.73 −14.64	0202 W05 45.57 −11.53 −3.38	0211 X05 56.02 −21.88 6.6	0220 Y05 66.48 −32.22 16.59	0229 Z05 76.93 −42.56 26.57	0238 a05 87.37 −52.89 36.55	0733 b05 91.13 −23.07 −6.76	0742 c05 80.28 −17.3 −5.07	0751 d05 69.42 −11.53 −3.38
06	0185 U06 35.25 28.52 −38.84	0194 V06 42.31 13.24 −27.59	0203 W06 49.37 −2.03 −16.33	0212 X06 56.43 −17.3 −5.07	0221 Y06 66.88 −27.64 4.91	0230 Z06 77.33 −37.99 14.89	0239 a06 87.78 −48.32 24.87	0734 b06 90.07 −28.83 −8.46	0743 c06 79.22 −23.07 −6.77	0752 d06 68.36 −17.3 −5.07
07	0186 U07 39.05 38.03 −51.8	0195 V07 46.11 22.75 −40.54	0204 W07 53.17 7.47 −29.28	0213 X07 60.23 −7.79 −18.02	0222 Y07 67.29 −23.07 −6.77	0231 Z07 77.74 −33.41 3.21	0240 a07 88.18 −43.75 13.19	0735 b07 89.0 −34.6 −10.15	0744 c07 78.15 −28.84 −8.46	0753 d07 67.29 −23.07 −6.77
08	0187 U08 42.84 47.53 −64.75	0196 V08 49.9 32.26 −53.49	0205 W08 56.96 16.98 −42.23	0214 X08 64.03 1.7 −30.97	0223 Y08 71.09 −13.56 −19.71	0232 Z08 78.15 −28.84 −8.46	0241 a08 88.59 −39.17 1.51	0736 b08 87.93 −40.37 −11.84	0745 c08 77.08 −34.61 −10.15	0754 d08 66.22 −28.84 −8.46
09	0188 U09 46.64 57.03 −77.68	0197 V09 53.7 41.76 −66.43	0206 W09 60.76 26.48 −55.17	0215 X09 67.82 11.2 −43.91	0224 Y09 74.88 −4.06 −32.65	0233 Z09 81.94 −19.34 −21.4	0242 a09 89.0 −34.6 −10.15	0737 b09 86.87 −46.14 −13.53	0746 c09 76.02 −40.37 −11.84	0755 d09 65.16 −34.6 −10.15
10	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 −0.72 53.43	0450 X10 57.91 −12.92 56.7	0459 Y10 68.36 −23.26 66.69	0468 Z10 78.81 −33.6 76.68	0477 a10 89.26 −43.94 86.66	0810 b10 95.41 0.0 −0.01	0819 c10 95.05 −2.58 11.33	0828 d10 94.71 −5.16 22.67
11	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 −10.34 45.37	0460 Y11 68.71 −20.68 55.36	0469 Z11 79.16 −31.02 65.35	0478 a11 89.6 −41.35 75.32	0811 b11 87.27 9.49 −12.93	0820 c11 83.49 0.0 −0.01	0829 d11 83.14 −2.58 11.34
12	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 −7.75 34.03	0461 Y12 69.05 −18.09 44.01	0470 Z12 79.5 −28.43 54.0	0479 a12 89.94 −38.77 63.98	0812 b12 79.15 19.0 −25.88	0821 c12 75.35 9.5 −12.95	0830 d12 71.57 0.0 −0.01
13	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 −5.17 22.68	0462 Y13 69.39 −15.51 32.67	0471 Z13 79.85 −25.85 42.66	0480 a13 90.29 −36.18 52.64	0813 b13 71.02 28.51 −38.83	0822 c13 67.23 19.01 −25.9	0831 d13 63.43 9.5 −12.95
14	0427 U14 44.49 33.2 −6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 −2.58 11.34	0463 Y14 69.74 −12.92 21.33	0472 Z14 80.19 −23.27 31.31	0481 a14 90.63 −33.6 41.29	0814 b14 62.89 38.02 −51.78	0823 c14 59.1 28.52 −38.84	0832 d14 55.3 19.01 −25.9
15	0428 U15 45.34 35.38 −21.9	0437 V15 50.11 23.58 −14.6	0446 W15 54.87 11.79 −7.3	0455 X15 59.64 0.0 −0.01	0464 Y15 70.08 −10.34 9.98	0473 Z15 80.53 −20.68 19.97	0482 a15 90.98 −31.01 29.95	0815 b15 54.76 47.52 −64.73	0824 c15 50.97 38.03 −51.8	0833 d15 47.17 28.52 −38.84
16	0429 U16 49.14 44.88 −34.85	0438 V16 53.9 33.09 −27.55	0447 W16 58.67 21.3 −20.25	0456 X16 63.43 9.5 −12.95	0465 Y16 70.49 −5.76 −1.69	0474 Z16 80.94 −16.11 8.29	0483 a16 91.38 −26.44 18.27	0816 b16 46.64 57.03 −77.68	0825 c16 42.84 47.53 −64.75	0834 d16 39.05 38.03 −51.8
17	0430 U17 52.94 54.39 −47.8	0439 V17 57.7 42.6 −40.5	0448 W17 62.46 30.8 −33.2	0457 X17 67.23 19.01 −25.9	0466 Y17 74.29 3.73 −14.64	0475 Z17 81.35 −11.53 −3.38	0484 a17 91.79 −21.87 6.59	0817 b17 38.51 66.54 −90.63	0826 c17 34.71 57.04 −77.69	0835 d17 30.92 47.53 −64.75
18	0431 U18 56.73 63.89 −60.73	0440 V18 61.49 52.1 −53.43	0449 W18 66.26 40.3 −46.13	0458 X18 71.02 28.51 −38.83	0467 Y18 78.08 13.23 −27.58	0476 Z18 85.14 −2.03 −16.32	0485 a18 92.2 −17.3 −5.07	0818 b18 30.39 76.04 −103.57	0827 c18 26.59 66.54 −90.63	0836 d18 22.8 57.03 −77.68
19	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 −8.48 87.45	0720 a19 92.65 −20.67 90.73	0891 b19 95.41 0.0 −0.01	0900 c19 93.92 −10.33 9.97	0909 d19 92.45 −20.67 19.96
20	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 −5.9 76.12	0721 a20 92.99 −18.09 79.39	0892 b20 90.64 11.78 −7.29	0901 c20 83.49 0.0 −0.01	0910 d20 82.01 −10.34 9.98
21	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 −3.31 64.78	0722 a21 93.33 −15.5 68.05	0893 b21 85.87 23.57 −14.59	0902 c21 78.72 11.79 −7.3	0911 d21 71.57 0.0 −0.01
22	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 −0.73 53.43	0723 a22 93.68 −12.92 56.7	0894 b22 81.11 35.37 −21.89	0903 c22 73.96 23.58 −14.6	0912 d22 66.79 11.79 −7.3
23	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 −10.33 45.36	0895 b23 76.35 47.16 −29.19	0904 c23 69.19 35.38 −21.9	0913 d23 62.03 23.58 −14.6
24	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 −7.75 34.02	0896 b24 71.59 58.95 −36.49	0905 c24 64.43 47.17 −29.2	0914 d24 57.27 35.38 −21.9
25	0672 U25 65.12 66.39 −13.06	0681 V25 69.88 54.6 −5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 −5.16 22.67	0897 b25 66.82 70.75 −43.79	0906 c25 59.67 58.96 −36.5	0915 d25 52.51 47.17 −29.2
26	0673 U26 65.97 68.57 −28.43	0682 V26 70.74 56.78 −21.13	0691 W26 75.5 44.98 −13.83	0700 X26 80.26 33.19 −6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 −2.58 11.33	0898 b26 62.06 82.54 −51.09	0907 c26 54.91 70.76 −43.8	0916 d26 47.74 58.96 −36.5
27	0674 U27 66.82 70.75 −43.79	0683 V27 71.59 58.95 −36.49	0692 W27 76.35 47.16 −29.19	0701 X27 81.11 35.37 −21.89	0710 Y27 85.87 23.57 −14.59	0719 Z27 90.64 11.78 −7.29	0728 a27 95.41 0.0 −0.01	0899 b27 57.3 94.33 −58.38	0908 c27 50.15 82.54 −51.09	0917 d27 42.98 70.75 −43.79

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53	0972 k01 0.03 0.0 −0.01	0981 l01 0.03 0.0 −0.01	0990 m01 0.03 0.0 −0.01	0999 n01 0.03 0.0 −0.01
02	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4	0974 k03 23.87 0.0 −0.01	0983 l03 23.87 0.0 −0.01	0992 m03 23.87 0.0 −0.01	1001 n03 23.87 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 58.56 −5.76 −1.69	0769 f05 47.72 0.0 −0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26	0976 k05 47.72 0.0 −0.01	0985 l05 47.72 0.0 −0.01	0994 m05 47.72 0.0 −0.01	1003 n05 47.72 0.0 −0.01
06	0761 e06 57.5 −11.53 −3.38	0770 f06 46.64 −5.76 −1.69	0779 g06 35.79 0.0 −0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 56.43 −17.3 −5.07	0771 f07 45.57 −11.53 −3.38	0780 g07 34.71 −5.76 −1.69	0789 h07 23.87 0.0 −0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13	0978 k07 71.57 0.0 −0.01	0987 l07 71.57 0.0 −0.01	0996 m07 71.57 0.0 −0.01	1005 n07 71.57 0.0 −0.01
08	0763 e08 55.36 −23.07 −6.77	0772 f08 44.51 −17.3 −5.07	0781 g08 33.65 −11.53 −3.38	0790 h08 22.79 −5.76 −1.69	0799 i08 11.94 0.0 −0.01	0808 j08 6.32 9.6 8.06	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 54.3 −28.83 −8.46	0773 f09 43.44 −23.07 −6.76	0782 g09 32.58 −17.3 −5.07	0791 h09 21.72 −11.53 −3.38	0800 i09 10.86 −5.76 −1.69	0809 j09 0.03 0.0 −0.01	0980 k09 95.41 0.0 −0.01	0989 l09 95.41 0.0 −0.01	0998 m09 95.41 0.0 −0.01	1007 n09 95.41 0.0 −0.01
10	0837 e10 94.36 −7.75 34.02	0846 f10 94.02 −10.33 45.36	0855 g10 93.68 −12.92 56.7	0864 h10 93.33 −15.5 68.05	0873 i10 92.99 −18.09 79.39	0882 j10 92.65 −20.67 90.73	1008 k10 0.03 0.0 −0.01	1024 l10 0.03 0.0 −0.01	1040 m10 0.03 0.0 −0.01	1056 n10 0.03 0.0 −0.01
11	0838 e11 82.79 −5.17 22.68	0847 f11 82.45 −7.75 34.03	0856 g11 82.11 −10.34 45.37	0865 h11 81.76 −12.92 56.71	0874 i11 81.42 −15.51 68.06	0883 j11 81.07 −18.09 79.39	1009 k11 6.38 0.0 −0.01	1025 l11 6.38 0.0 −0.01	1041 m11 6.38 0.0 −0.01	1057 n11 6.38 0.0 −0.01
12	0839 e12 71.21 −2.58 11.34	0848 f12 70.87 −5.17 22.68	0857 g12 70.52 −7.75 34.03	0866 h12 70.18 −10.34 45.37	0875 i12 69.84 −12.92 56.71	0884 j12 69.49 −15.5 68.05	1010 k12 12.74 0.0 −0.01	1026 l12 12.74 0.0 −0.01	1042 m12 12.74 0.0 −0.01	1058 n12 12.74 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 59.29 −2.58 11.34	0858 g13 58.94 −5.17 22.68	0867 h13 58.6 −7.75 34.03	0876 i13 58.26 −10.34 45.37	0885 j13 57.91 −12.92 56.7	1011 k13 19.1 0.0 −0.01	1027 l13 19.1 0.0 −0.01	1043 m13 19.1 0.0 −0.01	1059 n13 19.1 0.0 −0.01
14	0841 e14 51.5 9.5 −12.95	0850 f14 47.72 0.0 −0.01	0859 g14 47.36 −2.58 11.34	0868 h14 47.02 −5.17 22.68	0877 i14 46.67 −7.75 34.03	0886 j14 46.33 −10.33 45.36	1012 k14 25.46 0.0 −0.01	1028 l14 25.46 0.0 −0.01	1044 m14 25.46 0.0 −0.01	1060 n14 25.46 0.0 −0.01
15	0842 e15 43.38 19.01 −25.9	0851 f15 39.58 9.5 −12.95	0860 g15 35.79 0.0 −0.01	0869 h15 35.44 −2.58 11.34	0878 i15 35.09 −5.17 22.68	0887 j15 34.75 −7.75 34.02	1013 k15 31.82 0.0 −0.01	1029 l15 31.82 0.0 −0.01	1045 m15 31.82 0.0 −0.01	1061 n15 31.82 0.0 −0.01
16	0843 e16 35.25 28.52 −38.84	0852 f16 31.45 19.01 −25.9	0861 g16 27.65 9.5 −12.95	0870 h16 23.87 0.0 −0.01	0879 i16 23.51 −2.58 11.34	0888 j16 23.17 −5.16 22.67	1014 k16 38.18 0.0 −0.01	1030 l16 38.18 0.0 −0.01	1046 m16 38.18 0.0 −0.01	1062 n16 38.18 0.0 −0.01
17	0844 e17 27.12 38.03 −51.8	0853 f17 23.32 28.52 −38.84	0862 g17 19.53 19.01 −25.9	0871 h17 15.73 9.5 −12.95	0880 i17 11.94 0.0 −0.01	0889 j17 11.59 −2.58 11.33	1015 k17 44.54 0.0 −0.01	1031 l17 44.54 0.0 −0.01	1047 m17 44.54 0.0 −0.01	1063 n17 44.54 0.0 −0.01
18	0845 e18 19.0 47.52 −64.73	0854 f18 15.2 38.02 −51.78	0863 g18 11.4 28.51 −38.83	0872 h18 7.61 19.0 −25.88	0881 i18 3.81 9.49 −12.93	0890 j18 0.03 0.0 −0.01	1016 k18 50.9 0.0 −0.01	1032 l18 50.9 0.0 −0.01	1048 m18 50.9 0.0 −0.01	1064 n18 50.9 0.0 −0.01
19	0918 e19 90.98 −31.01 29.95	0927 f19 89.5 −41.36 39.94	0936 g19 88.03 −51.7 49.92	0945 h19 86.55 −62.04 59.91	0954 i19 85.08 −72.38 69.9	0963 j19 83.61 −82.72 79.88	1017 k19 57.26 0.0 −0.01	1033 l19 57.26 0.0 −0.01	1049 m19 57.26 0.0 −0.01	1065 n19 57.26 0.0 −0.01
20	0919 e20 80.53 −20.68 19.97	0928 f20 79.06 −31.02 29.96	0937 g20 77.59 −41.37 39.95	0946 h20 76.11 −51.71 49.93	0955 i20 74.64 −62.05 59.92	0964 j20 73.16 −72.38 69.9	1018 k20 63.62 0.0 −0.01	1034 l20 63.62 0.0 −0.01	1050 m20 63.62 0.0 −0.01	1066 n20 63.62 0.0 −0.01
21	0920 e21 70.08 −10.34 9.98	0929 f21 68.61 −20.68 19.97	0938 g21 67.13 −31.02 29.96	0947 h21 65.66 −41.37 39.95	0956 i21 64.19 −51.71 49.93	0965 j21 62.71 −62.04 59.91	1019 k21 69.98 0.0 −0.01	1035 l21 69.98 0.0 −0.01	1051 m21 69.98 0.0 −0.01	1067 n21 69.98 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 58.16 −10.34 9.98	0939 g22 56.68 −20.68 19.97	0948 h22 55.21 −31.02 29.96	0957 i22 53.74 −41.37 39.95	0966 j22 52.26 −51.7 49.92	1020 k22 76.34 0.0 −0.01	1036 l22 76.34 0.0 −0.01	1052 m22 76.34 0.0 −0.01	1068 n22 76.34 0.0 −0.01
23	0922 e23 54.87 11.79 −7.3	0931 f23 47.72 0.0 −0.01	0940 g23 46.23 −10.34 9.98	0949 h23 44.76 −20.68 19.97	0958 i23 43.28 −31.02 29.96	0967 j23 41.81 −41.36 39.94	1021 k23 82.7 0.0 −0.01	1037 l23 82.7 0.0 −0.01	1053 m23 82.7 0.0 −0.01	1069 n23 82.7 0.0 −0.01
24	0923 e24 50.11 23.58 −14.6	0932 f24 42.94 11.79 −7.3	0941 g24 35.79 0.0 −0.01	0950 h24 34.31 −10.34 9.98	0959 i24 32.83 −20.68 19.97	0968 j24 31.36 −31.01 29.95	1022 k24 89.06 0.0 −0.01	1038 l24 89.06 0.0 −0.01	1054 m24 89.06 0.0 −0.01	1070 n24 89.06 0.0 −0.01
25	0924 e25 45.34 35.38 −21.9	0933 f25 38.18 23.58 −14.6	0942 g25 31.02 11.79 −7.3	0951 h25 23.87 0.0 −0.01	0960 i25 22.38 −10.34 9.98	0969 j25 20.91 −20.67 19.96	1023 k25 95.41 0.0 −0.01	1039 l25 95.41 0.0 −0.01	1055 m25 95.41 0.0 −0.01	1071 n25 95.41 0.0 −0.01
26	0925 e26 40.58 47.17 −29.2	0934 f26 33.42 35.38 −21.9	0943 g26 26.26 23.58 −14.6	0952 h26 19.09 11.79 −7.3	0961 i26 11.94 0.0 −0.01	0970 j26 10.46 −10.33 9.97	1072 k26 0.03 0.0 −0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 −20.67 90.73	1078 n26 83.61 −82.72 79.88
27	0926 e27 35.82 58.95 −36.49	0935 f27 28.66 47.16 −29.19	0944 g27 21.5 35.37 −21.89	0953 h27 14.33 23.57 −14.59	0962 i27 7.17 11.78 −7.29	0971 j27 0.03 0.0 −0.01	1073 k27 95.41 0.0 −0.01	1075 l27 86.87 −46.14 −13.53	1077 m27 30.39 76.04 −103.57	1079 n27 57.3 94.33 −58.38

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BAM material: code=rha4ta

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 18/4, TLS38

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

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.03 0.0 −0.01	0009 B01 10.46 −10.33 9.97	0018 C01 20.91 −20.67 19.96	0027 D01 31.36 −31.01 29.95	0036 E01 41.81 −41.36 39.94	0045 F01 52.26 −51.7 49.92	0054 G01 62.71 −62.04 59.91	0063 H01 73.16 −72.38 69.9	0072 I01 83.61 −82.72 79.88	0081 J01 6.32 9.6 8.06
02	0001 A02 3.81 9.49 −12.93	0010 B02 10.86 −5.76 −1.69	0019 C02 21.32 −16.1 8.29	0028 D02 31.77 −26.44 18.28	0037 E02 42.22 −36.79 28.27	0046 F02 52.67 −47.13 38.25	0055 G02 63.12 −57.47 48.24	0064 H02 73.57 −67.81 58.23	0073 I02 84.01 −78.15 68.21	0082 J02 7.17 11.78 −7.29
03	0002 A03 7.61 19.0 −25.88	0011 B03 14.66 3.74 −14.64	0020 C03 21.72 −11.53 −3.38	0029 D03 32.17 −21.87 6.6	0038 E03 42.63 −32.21 16.59	0047 F03 53.08 −42.56 26.57	0056 G03 63.53 −52.9 36.56	0065 H03 73.98 −63.24 46.55	0074 I03 84.42 −73.57 56.53	0083 J03 10.97 21.29 −20.24
04	0003 A04 11.4 28.51 −38.83	0012 B04 18.46 13.25 −27.59	0021 C04 25.52 −2.02 −16.33	0030 D04 32.58 −17.3 −5.07	0039 E04 43.03 −27.64 4.91	0048 F04 53.48 −37.98 14.89	0057 G04 63.94 −48.32 24.88	0066 H04 74.39 −58.67 34.87	0075 I04 84.83 −69.0 44.85	0084 J04 14.77 30.79 −33.19
05	0004 A05 15.2 38.02 −51.78	0013 B05 22.26 22.75 −40.54	0022 C05 29.32 7.48 −29.28	0031 D05 36.38 −7.79 −18.02	0040 E05 43.44 −23.07 −6.76	0049 F05 53.89 −33.41 3.21	0058 G05 64.34 −43.75 13.2	0067 H05 74.79 −54.09 23.19	0076 I05 85.24 −64.43 33.17	0085 J05 18.56 40.3 −46.14
06	0005 A06 19.0 47.52 −64.73	0014 B06 26.05 32.26 −53.49	0023 C06 33.12 16.98 −42.23	0032 D06 40.18 1.71 −30.97	0041 E06 47.24 −13.56 −19.71	0050 F06 54.3 −28.83 −8.46	0059 G06 64.75 −39.18 1.52	0068 H06 75.2 −49.52 11.51	0077 I06 85.64 −59.85 21.49	0086 J06 22.36 49.81 −59.09
07	0006 A07 22.8 57.03 −77.68	0015 B07 29.85 41.77 −66.44	0024 C07 36.91 26.49 −55.18	0033 D07 43.97 11.22 −43.92	0042 E07 51.04 −4.05 −32.66	0051 F07 58.1 −19.33 −21.41	0060 G07 65.16 −34.6 −10.15	0069 H07 75.61 −44.95 −0.16	0078 I07 86.05 −55.28 9.81	0087 J07 26.16 59.32 −72.04
08	0007 A08 26.59 66.54 −90.63	0016 B08 33.65 51.28 −79.39	0025 C08 40.71 36.0 −68.13	0034 D08 47.77 20.72 −56.87	0043 E08 54.83 5.45 −45.61	0052 F08 61.89 −9.82 −34.36	0061 G08 68.96 −25.1 −23.1	0070 H08 76.02 −40.37 −11.84	0079 I08 86.46 −50.71 −1.86	0088 J08 29.96 68.82 −84.99
09	0008 A09 30.39 76.04 −103.57	0017 B09 37.44 60.78 −92.33	0026 C09 44.51 45.5 −81.07	0035 D09 51.57 30.22 −69.81	0044 E09 58.63 14.95 −58.55	0053 F09 65.69 −0.32 −47.3	0062 G09 72.75 −15.6 −36.04	0071 H09 79.81 −30.87 −24.78	0080 I09 86.87 −46.14 −13.53	0089 J09 33.75 78.32 −97.93
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 −7.75 34.02	0279 E10 45.2 −18.09 44.0	0288 F10 55.65 −28.43 53.99	0297 G10 66.1 −38.78 63.98	0306 H10 76.55 −49.12 73.97	0315 I10 87.0 −59.45 83.95	0324 J10 25.25 38.44 32.26
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 −5.17 22.68	0280 E11 45.54 −15.51 32.67	0289 F11 55.99 −25.85 42.66	0298 G11 66.45 −36.19 52.65	0307 H11 76.9 −46.54 62.63	0316 I11 87.34 −56.87 72.61	0325 J11 26.11 40.62 16.91
12	0245 A12 20.65 33.19 −6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 −2.58 11.34	0281 E12 45.89 −12.92 21.33	0290 F12 56.34 −23.27 31.31	0299 G12 66.79 −33.61 41.3	0308 H12 77.24 −43.95 51.29	0317 I12 87.68 −54.28 61.27	0326 J12 26.96 42.8 1.54
13	0246 A13 21.5 35.37 −21.89	0255 B13 26.26 23.58 −14.6	0264 C13 31.02 11.79 −7.3	0273 D13 35.79 0.0 −0.01	0282 E13 46.23 −10.34 9.98	0291 F13 56.68 −20.68 19.97	0300 G13 67.13 −31.02 29.96	0309 H13 77.59 −41.37 39.95	0318 I13 88.03 −51.7 49.92	0327 J13 27.81 44.98 −13.82
14	0247 A14 25.29 44.87 −34.84	0256 B14 30.05 33.09 −27.55	0265 C14 34.82 21.3 −20.25	0274 D14 39.58 9.5 −12.95	0283 E14 46.64 −5.76 −1.69	0292 F14 57.09 −16.11 8.29	0301 G14 67.54 −26.45 18.28	0310 H14 77.99 −36.79 28.27	0319 I14 88.44 −47.13 38.24	0328 J14 28.66 47.16 −29.19
15	0248 A15 29.09 54.38 −47.79	0257 B15 33.85 42.6 −40.5	0266 C15 38.61 30.8 −33.2	0275 D15 43.38 19.01 −25.9	0284 E15 50.44 3.73 −14.64	0293 F15 57.5 −11.53 −3.38	0302 G15 67.95 −21.88 6.6	0311 H15 78.4 −32.22 16.59	0320 I15 88.84 −42.55 26.56	0329 J15 32.46 56.67 −42.14
16	0249 A16 32.89 63.89 −60.74	0258 B16 37.65 52.11 −53.44	0267 C16 42.41 40.31 −46.15	0276 D16 47.17 28.52 −38.84	0285 E16 54.23 13.24 −27.59	0294 F16 61.3 −2.03 −16.33	0303 G16 68.36 −17.3 −5.07	0312 H16 78.81 −27.64 4.91	0321 I16 89.25 −37.98 14.88	0330 J16 36.25 66.18 −55.09
17	0250 A17 36.69 73.4 −73.69	0259 B17 41.45 61.61 −66.4	0268 C17 46.21 49.82 −59.1	0277 D17 50.97 38.03 −51.8	0286 E17 58.03 22.75 −40.54	0295 F17 65.09 7.47 −29.28	0304 G17 72.15 −7.79 −18.02	0313 H17 79.22 −23.07 −6.77	0322 I17 89.66 −33.4 3.2	0331 J17 40.05 75.68 −68.04
18	0251 A18 40.48 82.9 −86.63	0260 B18 45.24 71.11 −79.33	0269 C18 50.0 59.32 −72.03	0278 D18 54.76 47.52 −64.73	0287 E18 61.83 32.25 −53.48	0296 F18 68.89 16.97 −42.22	0305 G18 75.95 1.7 −30.96	0314 H18 83.01 −13.57 −19.7	0323 I18 90.07 −28.83 −8.46	0332 J18 43.85 85.18 −80.98
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 −3.3 64.77	0540 G19 69.49 −15.5 68.05	0549 H19 79.94 −25.85 78.04	0558 I19 90.39 −36.18 88.02	0567 J19 44.19 67.28 56.47
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 −0.72 53.44	0541 G20 69.84 −12.92 56.71	0550 H20 80.29 −23.26 66.7	0559 I20 90.73 −33.6 76.68	0568 J20 45.04 69.46 41.11
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 −10.34 45.37	0551 H21 80.63 −20.68 55.36	0560 I21 91.07 −31.01 65.34	0569 J21 45.89 71.64 25.74
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 −7.75 34.03	0552 H22 80.98 −18.09 44.01	0561 I22 91.42 −28.43 53.99	0570 J22 46.74 73.82 10.38
23	0490 A23 41.28 66.39 −13.05	0499 B23 46.04 54.6 −5.76	0508 C23 50.8 42.81 1.53	0517 D23 55.57 31.02 8.83	0526 E23 60.33 19.22 16.13	0535 F23 65.6 7.02 19.41	0544 G23 70.87 −5.17 22.68	0553 H23 81.32 −15.51 32.67	0562 I23 91.76 −25.84 42.65	0571 J23 47.59 76.0 −4.98
24	0491 A24 42.13 68.57 −28.42	0500 B24 46.89 56.78 −21.13	0509 C24 51.65 44.99 −13.83	0518 D24 56.42 33.2 −6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 −2.58 11.34	0554 H24 81.66 −12.92 21.33	0563 I24 92.11 −23.26 31.31	0572 J24 48.44 78.18 −20.35
25	0492 A25 42.98 70.75 −43.79	0501 B25 47.74 58.96 −36.5	0510 C25 52.51 47.17 −29.2	0519 D25 57.27 35.38 −21.9	0528 E25 62.03 23.58 −14.6	0537 F25 66.79 11.79 −7.3	0546 G25 71.57 0.0 −0.01	0555 H25 82.01 −10.34 9.98	0564 I25 92.45 −20.67 19.96	0573 J25 49.3 80.36 −35.72
26	0493 A26 46.78 80.26 −56.74	0502 B26 51.54 68.47 −49.45	0511 C26 56.3 56.68 −42.15	0520 D26 61.07 44.88 −34.85	0529 E26 65.83 33.09 −27.55	0538 F26 70.59 21.3 −20.25	0547 G26 75.35 9.5 −12.95	0556 H26 82.41 −5.76 −1.69	0565 I26 92.86 −16.1 8.28	0574 J26 50.15 82.54 −51.09
27	0494 A27 50.58 89.76 −69.68	0503 B27 55.33 77.97 −62.38	0512 C27 60.1 66.18 −55.08	0521 D27 64.86 54.38 −47.78	0530 E27 69.62 42.59 −40.48	0539 F27 74.38 30.8 −33.18	0548 G27 79.15 19.0 −25.88	0557 H27 86.21 3.73 −14.63	0566 I27 93.26 −11.53 −3.38	0575 J27 53.94 92.04 −64.03

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.59 −2.58 11.33	0099 L01 22.04 −12.92 21.32	0108 M01 32.49 −23.26 31.3	0117 N01 42.94 −33.61 41.29	0126 O01 53.39 −43.95 51.28	0135 P01 63.84 −54.29 61.27	0144 Q01 74.29 −64.63 71.25	0153 R01 84.74 −74.97 81.23	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4
02	0091 K02 11.94 0.0 −0.01	0100 L02 22.38 −10.34 9.98	0109 M02 32.83 −20.68 19.97	0118 N02 43.28 −31.02 29.96	0127 O02 53.74 −41.37 39.95	0136 P02 64.19 −51.71 49.93	0145 Q02 74.64 −62.05 59.92	0154 R02 85.08 −72.38 69.9	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06
03	0092 K03 15.73 9.5 −12.95	0101 L03 22.79 −5.76 −1.69	0110 M03 33.24 −16.11 8.29	0119 N03 43.69 −26.45 18.28	0128 O03 54.14 −36.79 28.27	0137 P03 64.59 −47.13 38.25	0146 Q03 75.05 −57.48 48.24	0155 R03 85.49 −67.81 58.22	0164 S03 14.33 23.57 −14.59	0173 T03 19.09 11.79 −7.3
04	0093 K04 19.53 19.01 −25.9	0102 L04 26.59 3.73 −14.64	0111 M04 33.65 −11.53 −3.38	0120 N04 44.1 −21.88 6.6	0129 O04 54.55 −32.22 16.59	0138 P04 65.0 −42.56 26.57	0147 Q04 75.45 −52.9 36.56	0156 R04 85.9 −63.24 46.54	0165 S04 18.13 33.08 −27.54	0174 T04 22.89 21.3 −20.25
05	0094 K05 23.32 28.52 −38.84	0103 L05 30.38 13.24 −27.59	0112 M05 37.44 −2.03 −16.33	0121 N05 44.51 −17.3 −5.07	0130 O05 54.96 −27.64 4.91	0139 P05 65.41 −37.99 14.89	0148 Q05 75.86 −48.33 24.88	0157 R05 86.3 −58.66 34.86	0166 S05 21.93 42.59 −40.49	0175 T05 26.69 30.8 −33.2
06	0095 K06 27.12 38.03 −51.8	0104 L06 34.18 22.75 −40.54	0113 M06 41.24 7.47 −29.28	0122 N06 48.3 −7.79 −18.02	0131 O06 55.36 −23.07 −6.77	0140 P06 65.82 −33.41 3.21	0149 Q06 76.27 −43.76 13.2	0158 R06 86.71 −54.09 23.18	0167 S06 25.73 52.1 −53.44	0176 T06 30.49 40.31 −46.15
07	0096 K07 30.92 47.53 −64.75	0105 L07 37.98 32.26 −53.49	0114 M07 45.04 16.98 −42.23	0123 N07 52.1 1.7 −30.97	0132 O07 59.16 −13.56 −19.71	0141 P07 66.22 −28.84 −8.46	0150 Q07 76.68 −39.18 1.52	0159 R07 87.12 −49.52 11.5	0168 S07 29.52 61.6 −66.39	0177 T07 34.28 49.82 −59.1
08	0097 K08 34.71 57.04 −77.69	0106 L08 41.78 41.76 −66.44	0115 M08 48.84 26.49 −55.18	0124 N08 55.9 11.21 −43.92	0133 O08 62.96 −4.06 −32.66	0142 P08 70.02 −19.33 −21.41	0151 Q08 77.08 −34.61 −10.15	0160 R08 87.53 −44.94 −0.17	0169 S08 33.32 71.11 −79.34	0178 T08 38.08 59.33 −72.05
09	0098 K09 38.51 66.54 −90.63	0107 L09 45.57 51.26 −79.38	0116 M09 52.63 35.99 −68.12	0125 N09 59.69 20.71 −56.86	0134 O09 66.75 5.43 −45.6	0143 P09 73.82 −9.83 −34.35	0152 Q09 80.88 −25.11 −23.09	0161 R09 87.93 −40.37 −11.84	0170 S09 37.12 80.61 −92.28	0179 T09 41.87 68.83 −84.98
10	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 −10.33 45.36	0369 O10 56.78 −20.68 55.35	0378 P10 67.23 −31.02 65.34	0387 Q10 77.68 −41.36 75.32	0396 R10 88.13 −51.69 85.3	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6
11	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 −7.75 34.03	0370 O11 57.13 −18.09 44.01	0379 P11 67.58 −28.43 54.0	0388 Q11 78.03 −38.78 63.99	0397 R11 88.47 −49.11 73.97	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27
12	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 −5.17 22.68	0371 O12 57.47 −15.51 32.67	0380 P12 67.92 −25.85 42.66	0389 Q12 78.37 −36.19 52.65	0398 R12 88.81 −46.53 62.62	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9
13	0336 K13 32.57 33.2 −6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 −2.58 11.34	0372 O13 57.81 −12.92 21.33	0381 P13 68.26 −23.27 31.31	0390 Q13 78.72 −33.61 41.3	0399 R13 89.16 −43.94 51.28	0408 S13 34.12 54.59 −5.75	0417 T13 38.88 42.81 1.53
14	0337 K14 33.42 35.38 −21.9	0346 L14 38.18 23.58 −14.6	0355 M14 42.94 11.79 −7.3	0364 N14 47.72 0.0 −0.01	0373 O14 58.16 −10.34 9.98	0382 P14 68.61 −20.68 19.97	0391 Q14 79.06 −31.02 29.96	0400 R14 89.5 −41.36 39.94	0409 S14 34.97 56.77 −21.12	0418 T14 39.73 44.99 −13.83
15	0338 K15 37.21 44.88 −34.85	0347 L15 41.98 33.09 −27.55	0356 M15 46.74 21.3 −20.25	0365 N15 51.5 9.5 −12.95	0374 O15 58.56 −5.76 −1.69	0383 P15 69.02 −16.11 8.29	0392 Q15 79.47 −26.45 18.28	0401 R15 89.91 −36.78 28.26	0410 S15 35.82 58.95 −36.49	0419 T15 40.58 47.17 −29.2
16	0339 K16 41.01 54.39 −47.8	0348 L16 45.78 42.6 −40.5	0357 M16 50.54 30.8 −33.2	0366 N16 55.3 19.01 −25.9	0375 O16 62.36 3.73 −14.64	0384 P16 69.42 −11.53 −3.38	0393 Q16 79.87 −21.88 6.6	0402 R16 90.32 −32.21 16.58	0411 S16 39.62 68.46 −49.44	0420 T16 44.38 56.68 −42.15
17	0340 K17 44.81 63.9 −60.75	0349 L17 49.57 52.11 −53.44	0358 M17 54.34 40.31 −46.15	0367 N17 59.1 28.52 −38.84	0376 O17 66.16 13.24 −27.59	0385 P17 73.22 −2.03 −16.33	0394 Q17 80.28 −17.3 −5.07	0403 R17 90.72 −27.64 4.9	0412 S17 43.42 77.97 −62.39	0421 T17 48.18 66.19 −55.1
18	0341 K18 48.6 73.4 −73.68	0350 L18 53.37 61.6 −66.38	0359 M18 58.13 49.81 −59.08	0368 N18 62.89 38.02 −51.78	0377 O18 69.95 22.74 −40.53	0386 P18 77.01 7.46 −29.27	0395 Q18 84.08 −7.8 −18.01	0404 R18 91.13 −23.07 −6.76	0413 S18 47.21 87.47 −75.33	0422 T18 51.97 75.68 −68.03
19	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 −5.89 76.12	0630 Q19 81.07 −18.09 79.39	0639 R19 91.52 −28.42 89.37	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8
20	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 −3.31 64.78	0631 Q20 81.42 −15.51 68.06	0640 R20 91.86 −25.84 78.04	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47
21	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 −0.72 53.44	0632 Q21 81.76 −12.92 56.71	0641 R21 92.2 −23.25 66.69	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1
22	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 −10.34 45.37	0642 R22 92.55 −20.67 55.35	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73
23	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 −7.75 34.03	0643 R23 92.89 −18.08 44.01	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36
24	0581 K24 53.2 66.4 −13.06	0590 L24 57.96 54.6 −5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 −5.17 22.68	0644 R24 93.24 −15.5 32.66	0653 S24 54.75 87.79 −12.29	0662 T24 59.51 76.0 −5.0
25	0582 K25 54.05 68.58 −28.43	0591 L25 58.82 56.78 −21.13	0600 M25 63.58 44.99 −13.83	0609 N25 68.34 33.2 −6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 −2.58 11.34	0645 R25 93.58 −12.91 21.32	0654 S25 55.6 89.97 −27.66	0663 T25 60.36 78.18 −20.36
26	0583 K26 54.91 70.76 −43.8	0592 L26 59.67 58.96 −36.5	0601 M26 64.43 47.17 −29.2	0610 N26 69.19 35.38 −21.9	0619 O26 73.96 23.58 −14.6	0628 P26 78.72 11.79 −7.3	0637 Q26 83.49 0.0 −0.01	0646 R26 93.92 −10.33 9.97	0655 S26 56.45 92.15 −43.03	0664 T26 61.21 80.36 −35.73
27	0584 K27 58.7 80.26 −56.73	0593 L27 63.46 68.46 −49.43	0602 M27 68.22 56.67 −42.13	0611 N27 72.99 44.88 −34.83	0620 O27 77.75 33.08 −27.53	0629 P27 82.51 21.29 −20.23	0638 Q27 87.27 9.49 −12.93	0647 R27 94.33 −5.76 −1.69	0656 S27 57.3 94.33 −58.38	0665 T27 62.06 82.54 −51.09

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 23.17 −5.16 22.67	0189 V01 33.62 −15.51 32.66	0198 W01 44.07 −25.85 42.65	0207 X01 54.52 −36.19 52.64	0216 Y01 64.97 −46.53 62.62	0225 Z01 75.42 −56.88 72.61	0234 a01 85.87 −67.21 82.59	0729 b01 95.41 0.0 −0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13
02	0181 U02 23.51 −2.58 11.34	0190 V02 33.96 −12.92 21.33	0199 W02 44.41 −23.27 31.31	0208 X02 54.87 −33.61 41.3	0217 Y02 65.32 −43.95 51.29	0226 Z02 75.77 −54.29 61.28	0235 a02 86.21 −64.63 71.26	0730 b02 94.33 −5.76 −1.69	0739 c02 83.49 0.0 −0.01	0748 d02 77.87 9.61 8.06
03	0182 U03 23.87 0.0 −0.01	0191 V03 34.31 −10.34 9.98	0200 W03 44.76 −20.68 19.97	0209 X03 55.21 −31.02 29.96	0218 Y03 65.66 −41.37 39.95	0227 Z03 76.11 −51.71 49.93	0236 a03 86.55 −62.04 59.91	0731 b03 93.26 −11.53 −3.38	0740 c03 82.41 −5.76 −1.69	0749 d03 71.57 0.0 −0.01
04	0183 U04 27.65 9.5 −12.95	0192 V04 34.71 −5.76 −1.69	0201 W04 45.17 −16.11 8.29	0210 X04 55.62 −26.45 18.28	0219 Y04 66.07 −36.79 28.27	0228 Z04 76.52 −47.13 38.25	0237 a04 86.96 −57.47 48.23	0732 b04 92.2 −17.3 −5.07	0741 c04 81.35 −11.53 −3.38	0750 d04 70.49 −5.76 −1.69
05	0184 U05 31.45 19.01 −25.9	0193 V05 38.51 3.73 −14.64	0202 W05 45.57 −11.53 −3.38	0211 X05 56.02 −21.88 6.6	0220 Y05 66.48 −32.22 16.59	0229 Z05 76.93 −42.56 26.57	0238 a05 87.37 −52.89 36.55	0733 b05 91.13 −23.07 −6.76	0742 c05 80.28 −17.3 −5.07	0751 d05 69.42 −11.53 −3.38
06	0185 U06 35.25 28.52 −38.84	0194 V06 42.31 13.24 −27.59	0203 W06 49.37 −2.03 −16.33	0212 X06 56.43 −17.3 −5.07	0221 Y06 66.88 −27.64 4.91	0230 Z06 77.33 −37.99 14.89	0239 a06 87.78 −48.32 24.87	0734 b06 90.07 −28.83 −8.46	0743 c06 79.22 −23.07 −6.77	0752 d06 68.36 −17.3 −5.07
07	0186 U07 39.05 38.03 −51.8	0195 V07 46.11 22.75 −40.54	0204 W07 53.17 7.47 −29.28	0213 X07 60.23 −7.79 −18.02	0222 Y07 67.29 −23.07 −6.77	0231 Z07 77.74 −33.41 3.21	0240 a07 88.18 −43.75 13.19	0735 b07 89.0 −34.6 −10.15	0744 c07 78.15 −28.84 −8.46	0753 d07 67.29 −23.07 −6.77
08	0187 U08 42.84 47.53 −64.75	0196 V08 49.9 32.26 −53.49	0205 W08 56.96 16.98 −42.23	0214 X08 64.03 1.7 −30.97	0223 Y08 71.09 −13.56 −19.71	0232 Z08 78.15 −28.84 −8.46	0241 a08 88.59 −39.17 1.51	0736 b08 87.93 −40.37 −11.84	0745 c08 77.08 −34.61 −10.15	0754 d08 66.22 −28.84 −8.46
09	0188 U09 46.64 57.03 −77.68	0197 V09 53.7 41.76 −66.43	0206 W09 60.76 26.48 −55.17	0215 X09 67.82 11.2 −43.91	0224 Y09 74.88 −4.06 −32.65	0233 Z09 81.94 −19.34 −21.4	0242 a09 89.0 −34.6 −10.15	0737 b09 86.87 −46.14 −13.53	0746 c09 76.02 −40.37 −11.84	0755 d09 65.16 −34.6 −10.15
10	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 −0.72 53.43	0450 X10 57.91 −12.92 56.7	0459 Y10 68.36 −23.26 66.69	0468 Z10 78.81 −33.6 76.68	0477 a10 89.26 −43.94 86.66	0810 b10 95.41 0.0 −0.01	0819 c10 95.05 −2.58 11.33	0828 d10 94.71 −5.16 22.67
11	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 −10.34 45.37	0460 Y11 68.71 −20.68 55.36	0469 Z11 79.16 −31.02 65.35	0478 a11 89.6 −41.35 75.32	0811 b11 87.27 9.49 −12.93	0820 c11 83.49 0.0 −0.01	0829 d11 83.14 −2.58 11.34
12	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 −7.75 34.03	0461 Y12 69.05 −18.09 44.01	0470 Z12 79.5 −28.43 54.0	0479 a12 89.94 −38.77 63.98	0812 b12 79.15 19.0 −25.88	0821 c12 75.35 9.5 −12.95	0830 d12 71.57 0.0 −0.01
13	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 −5.17 22.68	0462 Y13 69.39 −15.51 32.67	0471 Z13 79.85 −25.85 42.66	0480 a13 90.29 −36.18 52.64	0813 b13 71.02 28.51 −38.83	0822 c13 67.23 19.01 −25.9	0831 d13 63.43 9.5 −12.95
14	0427 U14 44.49 33.2 −6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 −2.58 11.34	0463 Y14 69.74 −12.92 21.33	0472 Z14 80.19 −23.27 31.31	0481 a14 90.63 −33.6 41.29	0814 b14 62.89 38.02 −51.78	0823 c14 59.1 28.52 −38.84	0832 d14 55.3 19.01 −25.9
15	0428 U15 45.34 35.38 −21.9	0437 V15 50.11 23.58 −14.6	0446 W15 54.87 11.79 −7.3	0455 X15 59.64 0.0 −0.01	0464 Y15 70.08 −10.34 9.98	0473 Z15 80.53 −20.68 19.97	0482 a15 90.98 −31.01 29.95	0815 b15 54.76 47.52 −64.73	0824 c15 50.97 38.03 −51.8	0833 d15 47.17 28.52 −38.84
16	0429 U16 49.14 44.88 −34.85	0438 V16 53.9 33.09 −27.55	0447 W16 58.67 21.3 −20.25	0456 X16 63.43 9.5 −12.95	0465 Y16 70.49 −5.76 −1.69	0474 Z16 80.94 −16.11 8.29	0483 a16 91.38 −26.44 18.27	0816 b16 46.64 57.03 −77.68	0825 c16 42.84 47.53 −64.75	0834 d16 39.05 38.03 −51.8
17	0430 U17 52.94 54.39 −47.8	0439 V17 57.7 42.6 −40.5	0448 W17 62.46 30.8 −33.2	0457 X17 67.23 19.01 −25.9	0466 Y17 74.29 3.73 −14.64	0475 Z17 81.35 −11.53 −3.38	0484 a17 91.79 −21.87 6.59	0817 b17 38.51 66.54 −90.63	0826 c17 34.71 57.04 −77.69	0835 d17 30.92 47.53 −64.75
18	0431 U18 56.73 63.89 −60.73	0440 V18 61.49 52.1 −53.43	0449 W18 66.26 40.3 −46.13	0458 X18 71.02 28.51 −38.83	0467 Y18 78.08 13.23 −27.58	0476 Z18 85.14 −2.03 −16.32	0485 a18 92.2 −17.3 −5.07	0818 b18 30.39 76.04 −103.57	0827 c18 26.59 66.54 −90.63	0836 d18 22.8 57.03 −77.68
19	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 −8.48 87.45	0720 a19 92.65 −20.67 90.73	0891 b19 95.41 0.0 −0.01	0900 c19 93.92 −10.33 9.97	0909 d19 92.45 −20.67 19.96
20	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 −5.9 76.12	0721 a20 92.99 −18.09 79.39	0892 b20 90.64 11.78 −7.29	0901 c20 83.49 0.0 −0.01	0910 d20 82.01 −10.34 9.98
21	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 −3.31 64.78	0722 a21 93.33 −15.5 68.05	0893 b21 85.87 23.57 −14.59	0902 c21 78.72 11.79 −7.3	0911 d21 71.57 0.0 −0.01
22	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 −0.73 53.43	0723 a22 93.68 −12.92 56.7	0894 b22 81.11 35.37 −21.89	0903 c22 73.96 23.58 −14.6	0912 d22 66.79 11.79 −7.3
23	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 −10.33 45.36	0895 b23 76.35 47.16 −29.19	0904 c23 69.19 35.38 −21.9	0913 d23 62.03 23.58 −14.6
24	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 −7.75 34.02	0896 b24 71.59 58.95 −36.49	0905 c24 64.43 47.17 −29.2	0914 d24 57.27 35.38 −21.9
25	0672 U25 65.12 66.39 −13.06	0681 V25 69.88 54.6 −5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 −5.16 22.67	0897 b25 66.82 70.75 −43.79	0906 c25 59.67 58.96 −36.5	0915 d25 52.51 47.17 −29.2
26	0673 U26 65.97 68.57 −28.43	0682 V26 70.74 56.78 −21.13	0691 W26 75.5 44.98 −13.83	0700 X26 80.26 33.19 −6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 −2.58 11.33	0898 b26 62.06 82.54 −51.09	0907 c26 54.91 70.76 −43.8	0916 d26 47.74 58.96 −36.5
27	0674 U27 66.82 70.75 −43.79	0683 V27 71.59 58.95 −36.49	0692 W27 76.35 47.16 −29.19	0701 X27 81.11 35.37 −21.89	0710 Y27 85.87 23.57 −14.59	0719 Z27 90.64 11.78 −7.29	0728 a27 95.41 0.0 −0.01	0899 b27 57.3 94.33 −58.38	0908 c27 50.15 82.54 −51.09	0917 d27 42.98 70.75 −43.79

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53	0972 k01 0.03 0.0 −0.01	0981 l01 0.03 0.0 −0.01	0990 m01 0.03 0.0 −0.01	0999 n01 0.03 0.0 −0.01
02	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4	0974 k03 23.87 0.0 −0.01	0983 l03 23.87 0.0 −0.01	0992 m03 23.87 0.0 −0.01	1001 n03 23.87 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 58.56 −5.76 −1.69	0769 f05 47.72 0.0 −0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26	0976 k05 47.72 0.0 −0.01	0985 l05 47.72 0.0 −0.01	0994 m05 47.72 0.0 −0.01	1003 n05 47.72 0.0 −0.01
06	0761 e06 57.5 −11.53 −3.38	0770 f06 46.64 −5.76 −1.69	0779 g06 35.79 0.0 −0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 56.43 −17.3 −5.07	0771 f07 45.57 −11.53 −3.38	0780 g07 34.71 −5.76 −1.69	0789 h07 23.87 0.0 −0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13	0978 k07 71.57 0.0 −0.01	0987 l07 71.57 0.0 −0.01	0996 m07 71.57 0.0 −0.01	1005 n07 71.57 0.0 −0.01
08	0763 e08 55.36 −23.07 −6.77	0772 f08 44.51 −17.3 −5.07	0781 g08 33.65 −11.53 −3.38	0790 h08 22.79 −5.76 −1.69	0799 i08 11.94 0.0 −0.01	0808 j08 6.32 9.6 8.06	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 54.3 −28.83 −8.46	0773 f09 43.44 −23.07 −6.76	0782 g09 32.58 −17.3 −5.07	0791 h09 21.72 −11.53 −3.38	0800 i09 10.86 −5.76 −1.69	0809 j09 0.03 0.0 −0.01	0980 k09 95.41 0.0 −0.01	0989 l09 95.41 0.0 −0.01	0998 m09 95.41 0.0 −0.01	1007 n09 95.41 0.0 −0.01
10	0837 e10 94.36 −7.75 34.02	0846 f10 94.02 −10.33 45.36	0855 g10 93.68 −12.92 56.7	0864 h10 93.33 −15.5 68.05	0873 i10 92.99 −18.09 79.39	0882 j10 92.65 −20.67 90.73	1008 k10 0.03 0.0 −0.01	1024 l10 0.03 0.0 −0.01	1040 m10 0.03 0.0 −0.01	1056 n10 0.03 0.0 −0.01
11	0838 e11 82.79 −5.17 22.68	0847 f11 82.45 −7.75 34.03	0856 g11 82.11 −10.34 45.37	0865 h11 81.76 −12.92 56.71	0874 i11 81.42 −15.51 68.06	0883 j11 81.07 −18.09 79.39	1009 k11 6.38 0.0 −0.01	1025 l11 6.38 0.0 −0.01	1041 m11 6.38 0.0 −0.01	1057 n11 6.38 0.0 −0.01
12	0839 e12 71.21 −2.58 11.34	0848 f12 70.87 −5.17 22.68	0857 g12 70.52 −7.75 34.03	0866 h12 70.18 −10.34 45.37	0875 i12 69.84 −12.92 56.71	0884 j12 69.49 −15.5 68.05	1010 k12 12.74 0.0 −0.01	1026 l12 12.74 0.0 −0.01	1042 m12 12.74 0.0 −0.01	1058 n12 12.74 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 59.29 −2.58 11.34	0858 g13 58.94 −5.17 22.68	0867 h13 58.6 −7.75 34.03	0876 i13 58.26 −10.34 45.37	0885 j13 57.91 −12.92 56.7	1011 k13 19.1 0.0 −0.01	1027 l13 19.1 0.0 −0.01	1043 m13 19.1 0.0 −0.01	1059 n13 19.1 0.0 −0.01
14	0841 e14 51.5 9.5 −12.95	0850 f14 47.72 0.0 −0.01	0859 g14 47.36 −2.58 11.34	0868 h14 47.02 −5.17 22.68	0877 i14 46.67 −7.75 34.03	0886 j14 46.33 −10.33 45.36	1012 k14 25.46 0.0 −0.01	1028 l14 25.46 0.0 −0.01	1044 m14 25.46 0.0 −0.01	1060 n14 25.46 0.0 −0.01
15	0842 e15 43.38 19.01 −25.9	0851 f15 39.58 9.5 −12.95	0860 g15 35.79 0.0 −0.01	0869 h15 35.44 −2.58 11.34	0878 i15 35.09 −5.17 22.68	0887 j15 34.75 −7.75 34.02	1013 k15 31.82 0.0 −0.01	1029 l15 31.82 0.0 −0.01	1045 m15 31.82 0.0 −0.01	1061 n15 31.82 0.0 −0.01
16	0843 e16 35.25 28.52 −38.84	0852 f16 31.45 19.01 −25.9	0861 g16 27.65 9.5 −12.95	0870 h16 23.87 0.0 −0.01	0879 i16 23.51 −2.58 11.34	0888 j16 23.17 −5.16 22.67	1014 k16 38.18 0.0 −0.01	1030 l16 38.18 0.0 −0.01	1046 m16 38.18 0.0 −0.01	1062 n16 38.18 0.0 −0.01
17	0844 e17 27.12 38.03 −51.8	0853 f17 23.32 28.52 −38.84	0862 g17 19.53 19.01 −25.9	0871 h17 15.73 9.5 −12.95	0880 i17 11.94 0.0 −0.01	0889 j17 11.59 −2.58 11.33	1015 k17 44.54 0.0 −0.01	1031 l17 44.54 0.0 −0.01	1047 m17 44.54 0.0 −0.01	1063 n17 44.54 0.0 −0.01
18	0845 e18 19.0 47.52 −64.73	0854 f18 15.2 38.02 −51.78	0863 g18 11.4 28.51 −38.83	0872 h18 7.61 19.0 −25.88	0881 i18 3.81 9.49 −12.93	0890 j18 0.03 0.0 −0.01	1016 k18 50.9 0.0 −0.01	1032 l18 50.9 0.0 −0.01	1048 m18 50.9 0.0 −0.01	1064 n18 50.9 0.0 −0.01
19	0918 e19 90.98 −31.01 29.95	0927 f19 89.5 −41.36 39.94	0936 g19 88.03 −51.7 49.92	0945 h19 86.55 −62.04 59.91	0954 i19 85.08 −72.38 69.9	0963 j19 83.61 −82.72 79.88	1017 k19 57.26 0.0 −0.01	1033 l19 57.26 0.0 −0.01	1049 m19 57.26 0.0 −0.01	1065 n19 57.26 0.0 −0.01
20	0919 e20 80.53 −20.68 19.97	0928 f20 79.06 −31.02 29.96	0937 g20 77.59 −41.37 39.95	0946 h20 76.11 −51.71 49.93	0955 i20 74.64 −62.05 59.92	0964 j20 73.16 −72.38 69.9	1018 k20 63.62 0.0 −0.01	1034 l20 63.62 0.0 −0.01	1050 m20 63.62 0.0 −0.01	1066 n20 63.62 0.0 −0.01
21	0920 e21 70.08 −10.34 9.98	0929 f21 68.61 −20.68 19.97	0938 g21 67.13 −31.02 29.96	0947 h21 65.66 −41.37 39.95	0956 i21 64.19 −51.71 49.93	0965 j21 62.71 −62.04 59.91	1019 k21 69.98 0.0 −0.01	1035 l21 69.98 0.0 −0.01	1051 m21 69.98 0.0 −0.01	1067 n21 69.98 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 58.16 −10.34 9.98	0939 g22 56.68 −20.68 19.97	0948 h22 55.21 −31.02 29.96	0957 i22 53.74 −41.37 39.95	0966 j22 52.26 −51.7 49.92	1020 k22 76.34 0.0 −0.01	1036 l22 76.34 0.0 −0.01	1052 m22 76.34 0.0 −0.01	1068 n22 76.34 0.0 −0.01
23	0922 e23 54.87 11.79 −7.3	0931 f23 47.72 0.0 −0.01	0940 g23 46.23 −10.34 9.98	0949 h23 44.76 −20.68 19.97	0958 i23 43.28 −31.02 29.96	0967 j23 41.81 −41.36 39.94	1021 k23 82.7 0.0 −0.01	1037 l23 82.7 0.0 −0.01	1053 m23 82.7 0.0 −0.01	1069 n23 82.7 0.0 −0.01
24	0923 e24 50.11 23.58 −14.6	0932 f24 42.94 11.79 −7.3	0941 g24 35.79 0.0 −0.01	0950 h24 34.31 −10.34 9.98	0959 i24 32.83 −20.68 19.97	0968 j24 31.36 −31.01 29.95	1022 k24 89.06 0.0 −0.01	1038 l24 89.06 0.0 −0.01	1054 m24 89.06 0.0 −0.01	1070 n24 89.06 0.0 −0.01
25	0924 e25 45.34 35.38 −21.9	0933 f25 38.18 23.58 −14.6	0942 g25 31.02 11.79 −7.3	0951 h25 23.87 0.0 −0.01	0960 i25 22.38 −10.34 9.98	0969 j25 20.91 −20.67 19.96	1023 k25 95.41 0.0 −0.01	1039 l25 95.41 0.0 −0.01	1055 m25 95.41 0.0 −0.01	1071 n25 95.41 0.0 −0.01
26	0925 e26 40.58 47.17 −29.2	0934 f26 33.42 35.38 −21.9	0943 g26 26.26 23.58 −14.6	0952 h26 19.09 11.79 −7.3	0961 i26 11.94 0.0 −0.01	0970 j26 10.46 −10.33 9.97	1072 k26 0.03 0.0 −0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 −20.67 90.73	1078 n26 83.61 −82.72 79.88
27	0926 e27 35.82 58.95 −36.49	0935 f27 28.66 47.16 −29.19	0944 g27 21.5 35.37 −21.89	0953 h27 14.33 23.57 −14.59	0962 i27 7.17 11.78 −7.29	0971 j27 0.03 0.0 −0.01	1073 k27 95.41 0.0 −0.01	1075 l27 86.87 −46.14 −13.53	1077 m27 30.39 76.04 −103.57	1079 n27 57.3 94.33 −58.38

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 19/4, TLS52

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I
01	0000 A01 0.03 0.0 −0.01	0009 B01 10.46 −10.33 9.97	0018 C01 20.91 −20.67 19.96	0027 D01 31.36 −31.01 29.95	0036 E01 41.81 −41.36 39.94	0045 F01 52.26 −51.7 49.92	0054 G01 62.71 −62.04 59.91	0063 H01 73.16 −72.38 69.9	0072 I01 83.61 −82.72 79.88
02	0001 A02 3.81 9.49 −12.93	0010 B02 10.86 −5.76 −1.69	0019 C02 21.32 −16.1 8.29	0028 D02 31.77 −26.44 18.28	0037 E02 42.22 −36.79 28.27	0046 F02 52.67 −47.13 38.25	0055 G02 63.12 −57.47 48.24	0064 H02 73.57 −67.81 58.23	0073 I02 84.01 −78.15 68.21
03	0002 A03 7.61 19.0 −25.88	0011 B03 14.66 3.74 −14.64	0020 C03 21.72 −11.53 −3.38	0029 D03 32.17 −21.87 6.6	0038 E03 42.63 −32.21 16.59	0047 F03 53.08 −42.56 26.57	0056 G03 63.53 −52.9 36.56	0065 H03 73.98 −63.24 46.55	0074 I03 84.42 −73.57 56.53
04	0003 A04 11.4 28.51 −38.83	0012 B04 18.46 13.25 −27.59	0021 C04 25.52 −2.02 −16.33	0030 D04 32.58 −17.3 −5.07	0039 E04 43.03 −27.64 4.91	0048 F04 53.48 −37.98 14.89	0057 G04 63.94 −48.32 24.88	0066 H04 74.39 −58.67 34.87	0075 I04 84.83 −69.0 44.85
05	0004 A05 15.2 38.02 −51.78	0013 B05 22.26 22.75 −40.54	0022 C05 29.32 7.48 −29.28	0031 D05 36.38 −7.79 −18.02	0040 E05 43.44 −23.07 −6.76	0049 F05 53.89 −33.41 3.21	0058 G05 64.34 −43.75 13.2	0067 H05 74.79 −54.09 23.19	0076 I05 85.24 −64.43 33.17
06	0005 A06 19.0 47.52 −64.73	0014 B06 26.05 32.26 −53.49	0023 C06 33.12 16.98 −42.23	0032 D06 40.18 1.71 −30.97	0041 E06 47.24 −13.56 −19.71	0050 F06 54.3 −28.83 −8.46	0059 G06 64.75 −39.18 1.52	0068 H06 75.2 −49.52 11.51	0077 I06 85.64 −59.85 21.49
07	0006 A07 22.8 57.03 −77.68	0015 B07 29.85 41.77 −66.44	0024 C07 36.91 26.49 −55.18	0033 D07 43.97 11.22 −43.92	0042 E07 51.04 −4.05 −32.66	0051 F07 58.1 −19.33 −21.41	0060 G07 65.16 −34.6 −10.15	0069 H07 75.61 −44.95 −0.16	0078 I07 86.05 −55.28 9.81
08	0007 A08 26.59 66.54 −90.63	0016 B08 33.65 51.28 −79.39	0025 C08 40.71 36.0 −68.13	0034 D08 47.77 20.72 −56.87	0043 E08 54.83 5.45 −45.61	0052 F08 61.89 −9.82 −34.36	0061 G08 68.96 −25.1 −23.1	0070 H08 76.02 −40.37 −11.84	0079 I08 86.46 −50.71 −1.86
09	0008 A09 30.39 76.04 −103.57	0017 B09 37.44 60.78 −92.33	0026 C09 44.51 45.5 −81.07	0035 D09 51.57 30.22 −69.81	0044 E09 58.63 14.95 −58.55	0053 F09 65.69 −0.32 −47.3	0062 G09 72.75 −15.6 −36.04	0071 H09 79.81 −30.87 −24.78	0080 I09 86.87 −46.14 −13.53
10	0243 A10 18.94 28.83 24.19	0252 B10 24.21 16.64 27.47	0261 C10 29.48 4.44 30.74	0270 D10 34.75 −7.75 34.02	0279 E10 45.2 −18.09 44.0	0288 F10 55.65 −28.43 53.99	0297 G10 66.1 −38.78 63.98	0306 H10 76.55 −49.12 73.97	0315 I10 87.0 −59.45 83.95
11	0244 A11 19.79 31.01 8.84	0253 B11 24.55 19.22 16.13	0262 C11 29.82 7.02 19.41	0271 D11 35.09 −5.17 22.68	0280 E11 45.54 −15.51 32.67	0289 F11 55.99 −25.85 42.66	0298 G11 66.45 −36.19 52.65	0307 H11 76.9 −46.54 62.63	0316 I11 87.34 −56.87 72.61
12	0245 A12 20.65 33.19 −6.52	0254 B12 25.4 21.4 0.76	0263 C12 30.17 9.61 8.06	0272 D12 35.44 −2.58 11.34	0281 E12 45.89 −12.92 21.33	0290 F12 56.34 −23.27 31.31	0299 G12 66.79 −33.61 41.3	0308 H12 77.24 −43.95 51.29	0317 I12 87.68 −54.28 61.27
13	0246 A13 21.5 35.37 −21.89	0255 B13 26.26 23.58 −14.6	0264 C13 31.02 11.79 −7.3	0273 D13 35.79 0.0 −0.01	0282 E13 46.23 −10.34 9.98	0291 F13 56.68 −20.68 19.97	0300 G13 67.13 −31.02 29.96	0309 H13 77.59 −41.37 39.95	0318 I13 88.03 −51.7 49.92
14	0247 A14 25.29 44.87 −34.84	0256 B14 30.05 33.09 −27.55	0265 C14 34.82 21.3 −20.25	0274 D14 39.58 9.5 −12.95	0283 E14 46.64 −5.76 −1.69	0292 F14 57.09 −16.11 8.29	0301 G14 67.54 −26.45 18.28	0310 H14 77.99 −36.79 28.27	0319 I14 88.44 −47.13 38.24
15	0248 A15 29.09 54.38 −47.79	0257 B15 33.85 42.6 −40.5	0266 C15 38.61 30.8 −33.2	0275 D15 43.38 19.01 −25.9	0284 E15 50.44 3.73 −14.64	0293 F15 57.5 −11.53 −3.38	0302 G15 67.95 −21.88 6.6	0311 H15 78.4 −32.22 16.59	0320 I15 88.84 −42.55 26.56
16	0249 A16 32.89 63.89 −60.74	0258 B16 37.65 52.11 −53.44	0267 C16 42.41 40.31 −46.15	0276 D16 47.17 28.52 −38.84	0285 E16 54.23 13.24 −27.59	0294 F16 61.3 −2.03 −16.33	0303 G16 68.36 −17.3 −5.07	0312 H16 78.81 −27.64 4.91	0321 I16 89.25 −37.98 14.88
17	0250 A17 36.69 73.4 −73.69	0259 B17 41.45 61.61 −66.4	0268 C17 46.21 49.82 −59.1	0277 D17 50.97 38.03 −51.8	0286 E17 58.03 22.75 −40.54	0295 F17 65.09 7.47 −29.28	0304 G17 72.15 −7.79 −18.02	0313 H17 79.22 −23.07 −6.77	0322 I17 89.66 −33.4 3.2
18	0251 A18 40.48 82.9 −86.63	0260 B18 45.24 71.11 −79.33	0269 C18 50.0 59.32 −72.03	0278 D18 54.76 47.52 −64.73	0287 E18 61.83 32.25 −53.48	0296 F18 68.89 16.97 −42.22	0305 G18 75.95 1.7 −30.96	0314 H18 83.01 −13.57 −19.7	0323 I18 90.07 −28.83 −8.46
19	0486 A19 37.88 57.67 48.4	0495 B19 43.14 45.48 51.67	0504 C19 48.41 33.28 54.95	0513 D19 53.68 21.08 58.22	0522 E19 58.95 8.88 61.5	0531 F19 64.22 −3.3 64.77	0540 G19 69.49 −15.5 68.05	0549 H19 79.94 −25.85 78.04	0558 I19 90.39 −36.18 88.02
20	0487 A20 38.73 59.85 33.04	0496 B20 43.49 48.06 40.34	0505 C20 48.76 35.87 43.61	0514 D20 54.03 23.67 46.89	0523 E20 59.3 11.47 50.16	0532 F20 64.57 −0.72 53.44	0541 G20 69.84 −12.92 56.71	0550 H20 80.29 −23.26 66.7	0559 I20 90.73 −33.6 76.68
21	0488 A21 39.58 62.03 17.68	0497 B21 44.34 50.24 24.97	0506 C21 49.1 38.45 32.27	0515 D21 54.37 26.25 35.55	0524 E21 59.64 14.05 38.82	0533 F21 64.91 1.85 42.1	0542 G21 70.18 −10.34 45.37	0551 H21 80.63 −20.68 55.36	0560 I21 91.07 −31.01 65.34
22	0489 A22 40.43 64.21 2.31	0498 B22 45.19 52.42 9.6	0507 C22 49.95 40.63 16.9	0516 D22 54.71 28.84 24.2	0525 E22 59.98 16.64 27.48	0534 F22 65.25 4.44 30.75	0543 G22 70.52 −7.75 34.03	0552 H22 80.98 −18.09 44.01	0561 I22 91.42 −28.43 53.99
23	0490 A23 41.28 66.39 −13.05	0499 B23 46.04 54.6 −5.76	0508 C23 50.8 42.81 1.53	0517 D23 55.57 31.02 8.83	0526 E23 60.33 19.22 16.13	0535 F23 65.6 7.02 19.41	0544 G23 70.87 −5.17 22.68	0553 H23 81.32 −15.51 32.67	0562 I23 91.76 −25.84 42.65
24	0491 A24 42.13 68.57 −28.42	0500 B24 46.89 56.78 −21.13	0509 C24 51.65 44.99 −13.83	0518 D24 56.42 33.2 −6.53	0527 E24 61.18 21.4 0.76	0536 F24 65.94 9.61 8.06	0545 G24 71.21 −2.58 11.34	0554 H24 81.66 −12.92 21.33	0563 I24 92.11 −23.26 31.31
25	0492 A25 42.98 70.75 −43.79	0501 B25 47.74 58.96 −36.5	0510 C25 52.51 47.17 −29.2	0519 D25 57.27 35.38 −21.9	0528 E25 62.03 23.58 −14.6	0537 F25 66.79 11.79 −7.3	0546 G25 71.57 0.0 −0.01	0555 H25 82.01 −10.34 9.98	0564 I25 92.45 −20.67 19.96
26	0493 A26 46.78 80.26 −56.74	0502 B26 51.54 68.47 −49.45	0511 C26 56.3 56.68 −42.15	0520 D26 61.07 44.88 −34.85	0529 E26 65.83 33.09 −27.55	0538 F26 70.59 21.3 −20.25	0547 G26 75.35 9.5 −12.95	0556 H26 82.41 −5.76 −1.69	0565 I26 92.86 −16.1 8.28
27	0494 A27 50.58 89.76 −69.68	0503 B27 55.33 77.97 −62.38	0512 C27 60.1 66.18 −55.08	0521 D27 64.86 54.38 −47.78	0530 E27 69.62 42.59 −40.48	0539 F27 74.38 30.8 −33.18	0548 G27 79.15 19.0 −25.88	0557 H27 86.21 3.73 −14.63	0566 I27 93.26 −11.53 −3.38

	J	K	L	M	N	O	P	Q	R
01	0081 J01 6.32 9.6 8.06	0090 K01 11.59 −2.58 11.33	0099 L01 22.04 −12.92 21.32	0108 M01 32.49 −23.26 31.3	0117 N01 42.94 −33.61 41.29	0126 O01 53.39 −43.95 51.28	0135 P01 63.84 −54.29 61.27	0144 Q01 74.29 −64.63 71.25	0153 R01 84.74 −74.97 81.23
02	0082 J02 7.17 11.78 −7.29	0091 K02 11.94 0.0 −0.01	0100 L02 22.38 −10.34 9.98	0109 M02 32.83 −20.68 19.97	0118 N02 43.28 −31.02 29.96	0127 O02 53.74 −41.37 39.95	0136 P02 64.19 −51.71 49.93	0145 Q02 74.64 −62.05 59.92	0154 R02 85.08 −72.38 69.9
03	0083 J03 10.97 21.29 −20.24	0092 K03 15.73 9.5 −12.95	0101 L03 22.79 −5.76 −1.69	0110 M03 33.24 −16.11 8.29	0119 N03 43.69 −26.45 18.28	0128 O03 54.14 −36.79 28.27	0137 P03 64.59 −47.13 38.25	0146 Q03 75.05 −57.48 48.24	0155 R03 85.49 −67.81 58.22
04	0084 J04 14.77 30.79 −33.19	0093 K04 19.53 19.01 −25.9	0102 L04 26.59 3.73 −14.64	0111 M04 33.65 −11.53 −3.38	0120 N04 44.1 −21.88 6.6	0129 O04 54.55 −32.22 16.59	0138 P04 65.0 −42.56 26.57	0147 Q04 75.45 −52.9 36.56	0156 R04 85.9 −63.24 46.54
05	0085 J05 18.56 40.3 −46.14	0094 K05 23.32 28.52 −38.84	0103 L05 30.38 13.24 −27.59	0112 M05 37.44 −2.03 −16.33	0121 N05 44.51 −17.3 −5.07	0130 O05 54.96 −27.64 4.91	0139 P05 65.41 −37.99 14.89	0148 Q05 75.86 −48.33 24.88	0157 R05 86.3 −58.66 34.86
06	0086 J06 22.36 49.81 −59.09	0095 K06 27.12 38.03 −51.8	0104 L06 34.18 22.75 −40.54	0113 M06 41.24 7.47 −29.28	0122 N06 48.3 −7.79 −18.02	0131 O06 55.36 −23.07 −6.77	0140 P06 65.82 −33.41 3.21	0149 Q06 76.27 −43.76 13.2	0158 R06 86.71 −54.09 23.18
07	0087 J07 26.16 59.32 −72.04	0096 K07 30.92 47.53 −64.75	0105 L07 37.98 32.26 −53.49	0114 M07 45.04 16.98 −42.23	0123 N07 52.1 1.7 −30.97	0132 O07 59.16 −13.56 −19.71	0141 P07 66.22 −28.84 −8.46	0150 Q07 76.68 −39.18 1.52	0159 R07 87.12 −49.52 11.5
08	0088 J08 29.96 68.82 −84.99	0097 K08 34.71 57.04 −77.69	0106 L08 41.78 41.76 −66.44	0115 M08 48.84 26.49 −55.18	0124 N08 55.9 11.21 −43.92	0133 O08 62.96 −4.06 −32.66	0142 P08 70.02 −19.33 −21.41	0151 Q08 77.08 −34.61 −10.15	0160 R08 87.53 −44.94 −0.17
09	0089 J09 33.75 78.32 −97.93	0098 K09 38.51 66.54 −90.63	0107 L09 45.57 51.26 −79.38	0116 M09 52.63 35.99 −68.12	0125 N09 59.69 20.71 −56.86	0134 O09 66.75 5.43 −45.6	0143 P09 73.82 −9.83 −34.35	0152 Q09 80.88 −25.11 −23.09	0161 R09 87.93 −40.37 −11.84
10	0324 J10 25.25 38.44 32.26	0333 K10 30.52 26.25 35.54	0342 L10 35.79 14.05 38.81	0351 M10 41.06 1.86 42.09	0360 N10 46.33 −10.33 45.36	0369 O10 56.78 −20.68 55.35	0378 P10 67.23 −31.02 65.34	0387 Q10 77.68 −41.36 75.32	0396 R10 88.13 −51.69 85.3
11	0325 J11 26.11 40.62 16.91	0334 K11 30.86 28.84 24.2	0343 L11 36.13 16.64 27.48	0352 M11 41.4 4.44 30.75	0361 N11 46.67 −7.75 34.03	0370 O11 57.13 −18.09 44.01	0379 P11 67.58 −28.43 54.0	0388 Q11 78.03 −38.78 63.99	0397 R11 88.47 −49.11 73.97
12	0326 J12 26.96 42.8 1.54	0335 K12 31.72 31.02 8.83	0344 L12 36.48 19.22 16.13	0353 M12 41.75 7.02 19.41	0362 N12 47.02 −5.17 22.68	0371 O12 57.47 −15.51 32.67	0380 P12 67.92 −25.85 42.66	0389 Q12 78.37 −36.19 52.65	0398 R12 88.81 −46.53 62.62
13	0327 J13 27.81 44.98 −13.82	0336 K13 32.57 33.2 −6.53	0345 L13 37.33 21.4 0.76	0354 M13 42.09 9.61 8.06	0363 N13 47.36 −2.58 11.34	0372 O13 57.81 −12.92 21.33	0381 P13 68.26 −23.27 31.31	0390 Q13 78.72 −33.61 41.3	0399 R13 89.16 −43.94 51.28
14	0328 J14 28.66 47.16 −29.19	0337 K14 33.42 35.38 −21.9	0346 L14 38.18 23.58 −14.6	0355 M14 42.94 11.79 −7.3	0364 N14 47.72 0.0 −0.01	0373 O14 58.16 −10.34 9.98	0382 P14 68.61 −20.68 19.97	0391 Q14 79.06 −31.02 29.96	0400 R14 89.5 −41.36 39.94
15	0329 J15 32.46 56.67 −42.14	0338 K15 37.21 44.88 −34.85	0347 L15 41.98 33.09 −27.55	0356 M15 46.74 21.3 −20.25	0365 N15 51.5 9.5 −12.95	0374 O15 58.56 −5.76 −1.69	0383 P15 69.02 −16.11 8.29	0392 Q15 79.47 −26.45 18.28	0401 R15 89.91 −36.78 28.26
16	0330 J16 36.25 66.18 −55.09	0339 K16 41.01 54.39 −47.8	0348 L16 45.78 42.6 −40.5	0357 M16 50.54 30.8 −33.2	0366 N16 55.3 19.01 −25.9	0375 O16 62.36 3.73 −14.64	0384 P16 69.42 −11.53 −3.38	0393 Q16 79.87 −21.88 6.6	0402 R16 90.32 −32.21 16.58
17	0331 J17 40.05 75.68 −68.04	0340 K17 44.81 63.9 −60.75	0349 L17 49.57 52.11 −53.44	0358 M17 54.34 40.31 −46.15	0367 N17 59.1 28.52 −38.84	0376 O17 66.16 13.24 −27.59	0385 P17 73.22 −2.03 −16.33	0394 Q17 80.28 −17.3 −5.07	0403 R17 90.72 −27.64 4.9
18	0332 J18 43.85 85.18 −80.98	0341 K18 48.6 73.4 −73.68	0350 L18 53.37 61.6 −66.38	0359 M18 58.13 49.81 −59.08	0368 N18 62.89 38.02 −51.78	0377 O18 69.95 22.74 −40.53	0386 P18 77.01 7.46 −29.27	0395 Q18 84.08 −7.8 −18.01	0404 R18 91.13 −23.07 −6.76
19	0567 J19 44.19 67.28 56.47	0576 K19 49.45 55.09 59.74	0585 L19 54.72 42.9 63.02	0594 M19 59.99 30.7 66.29	0603 N19 65.26 18.5 69.57	0612 O19 70.53 6.3 72.84	0621 P19 75.8 −5.89 76.12	0630 Q19 81.07 −18.09 79.39	0639 R19 91.52 −28.42 89.37
20	0568 J20 45.04 69.46 41.11	0577 K20 49.8 57.68 48.41	0586 L20 55.07 45.48 51.68	0595 M20 60.34 33.28 54.96	0604 N20 65.61 21.08 58.23	0613 O20 70.88 8.88 61.51	0622 P20 76.15 −3.31 64.78	0631 Q20 81.42 −15.51 68.06	0640 R20 91.86 −25.84 78.04
21	0569 J21 45.89 71.64 25.74	0578 K21 50.65 59.86 33.04	0587 L21 55.41 48.06 40.34	0596 M21 60.68 35.87 43.61	0605 N21 65.95 23.67 46.89	0614 O21 71.22 11.47 50.16	0623 P21 76.49 −0.72 53.44	0632 Q21 81.76 −12.92 56.71	0641 R21 92.2 −23.25 66.69
22	0570 J22 46.74 73.82 10.38	0579 K22 51.5 62.04 17.67	0588 L22 56.26 50.24 24.97	0597 M22 61.03 38.45 32.27	0606 N22 66.3 26.25 35.55	0615 O22 71.57 14.05 38.82	0624 P22 76.84 1.85 42.1	0633 Q22 82.11 −10.34 45.37	0642 R22 92.55 −20.67 55.35
23	0571 J23 47.59 76.0 −4.98	0580 K23 52.35 64.22 2.3	0589 L23 57.11 52.42 9.6	0598 M23 61.88 40.63 16.9	0607 N23 66.64 28.84 24.2	0616 O23 71.91 16.64 27.48	0625 P23 77.18 4.44 30.75	0634 Q23 82.45 −7.75 34.03	0643 R23 92.89 −18.08 44.01
24	0572 J24 48.44 78.18 −20.35	0581 K24 53.2 66.4 −13.06	0590 L24 57.96 54.6 −5.76	0599 M24 62.73 42.81 1.53	0608 N24 67.49 31.02 8.83	0617 O24 72.25 19.22 16.13	0626 P24 77.52 7.02 19.41	0635 Q24 82.79 −5.17 22.68	0644 R24 93.24 −15.5 32.66
25	0573 J25 49.3 80.36 −35.72	0582 K25 54.05 68.58 −28.43	0591 L25 58.82 56.78 −21.13	0600 M25 63.58 44.99 −13.83	0609 N25 68.34 33.2 −6.53	0618 O25 73.1 21.4 0.76	0627 P25 77.87 9.61 8.06	0636 Q25 83.14 −2.58 11.34	0645 R25 93.58 −12.91 21.32
26	0574 J26 50.15 82.54 −51.09	0583 K26 54.91 70.76 −43.8	0592 L26 59.67 58.96 −36.5	0601 M26 64.43 47.17 −29.2	0610 N26 69.19 35.38 −21.9	0619 O26 73.96 23.58 −14.6	0628 P26 78.72 11.79 −7.3	0637 Q26 83.49 0.0 −0.01	0646 R26 93.92 −10.33 9.97
27	0575 J27 53.94 92.04 −64.03	0584 K27 58.7 80.26 −56.73	0593 L27 63.46 68.46 −49.43	0602 M27 68.22 56.67 −42.13	0611 N27 72.99 44.88 −34.83	0620 O27 77.75 33.08 −27.53	0629 P27 82.51 21.29 −20.23	0638 Q27 87.27 9.49 −12.93	0647 R27 94.33 −5.76 −1.69

	S	T	U	V	W	X	Y	Z	a
01	0162 S01 12.63 19.21 16.13	0171 T01 17.9 7.03 19.4	0180 U01 23.17 −5.16 22.67	0189 V01 33.62 −15.51 32.66	0198 W01 44.07 −25.85 42.65	0207 X01 54.52 −36.19 52.64	0216 Y01 64.97 −46.53 62.62	0225 Z01 75.42 −56.88 72.61	0234 a01 85.87 −67.21 82.59
02	0163 S02 13.48 21.39 0.77	0172 T02 18.24 9.61 8.06	0181 U02 23.51 −2.58 11.34	0190 V02 33.96 −12.92 21.33	0199 W02 44.41 −23.27 31.31	0208 X02 54.87 −33.61 41.3	0217 Y02 65.32 −43.95 51.29	0226 Z02 75.77 −54.29 61.28	0235 a02 86.21 −64.63 71.26
03	0164 S03 14.33 23.57 −14.59	0173 T03 19.09 11.79 −7.3	0182 U03 23.87 0.0 −0.01	0191 V03 34.31 −10.34 9.98	0200 W03 44.76 −20.68 19.97	0209 X03 55.21 −31.02 29.96	0218 Y03 65.66 −41.37 39.95	0227 Z03 76.11 −51.71 49.93	0236 a03 86.55 −62.04 59.91
04	0165 S04 18.13 33.08 −27.54	0174 T04 22.89 21.3 −20.25	0183 U04 27.65 9.5 −12.95	0192 V04 34.71 −5.76 −1.69	0201 W04 45.17 −16.11 8.29	0210 X04 55.62 −26.45 18.28	0219 Y04 66.07 −36.79 28.27	0228 Z04 76.52 −47.13 38.25	0237 a04 86.96 −57.47 48.23
05	0166 S05 21.93 42.59 −40.49	0175 T05 26.69 30.8 −33.2	0184 U05 31.45 19.01 −25.9	0193 V05 38.51 3.73 −14.64	0202 W05 45.57 −11.53 −3.38	0211 X05 56.02 −21.88 6.6	0220 Y05 66.48 −32.22 16.59	0229 Z05 76.93 −42.56 26.57	0238 a05 87.37 −52.89 36.55
06	0167 S06 25.73 52.1 −53.44	0176 T06 30.49 40.31 −46.15	0185 U06 35.25 28.52 −38.84	0194 V06 42.31 13.24 −27.59	0203 W06 49.37 −2.03 −16.33	0212 X06 56.43 −17.3 −5.07	0221 Y06 66.88 −27.64 4.91	0230 Z06 77.33 −37.99 14.89	0239 a06 87.78 −48.32 24.87
07	0168 S07 29.52 61.6 −66.39	0177 T07 34.28 49.82 −59.1	0186 U07 39.05 38.03 −51.8	0195 V07 46.11 22.75 −40.54	0204 W07 53.17 7.47 −29.28	0213 X07 60.23 −7.79 −18.02	0222 Y07 67.29 −23.07 −6.77	0231 Z07 77.74 −33.41 3.21	0240 a07 88.18 −43.75 13.19
08	0169 S08 33.32 71.11 −79.34	0178 T08 38.08 59.33 −72.05	0187 U08 42.84 47.53 −64.75	0196 V08 49.9 32.26 −53.49	0205 W08 56.96 16.98 −42.23	0214 X08 64.03 1.7 −30.97	0223 Y08 71.09 −13.56 −19.71	0232 Z08 78.15 −28.84 −8.46	0241 a08 88.59 −39.17 1.51
09	0170 S09 37.12 80.61 −92.28	0179 T09 41.87 68.83 −84.98	0188 U09 46.64 57.03 −77.68	0197 V09 53.7 41.76 −66.43	0206 W09 60.76 26.48 −55.17	0215 X09 67.82 11.2 −43.91	0224 Y09 74.88 −4.06 −32.65	0233 Z09 81.94 −19.34 −21.4	0242 a09 89.0 −34.6 −10.15
10	0405 S10 31.57 48.06 40.33	0414 T10 36.83 35.87 43.6	0423 U10 42.1 23.67 46.88	0432 V10 47.37 11.47 50.15	0441 W10 52.64 −0.72 53.43	0450 X10 57.91 −12.92 56.7	0459 Y10 68.36 −23.26 66.69	0468 Z10 78.81 −33.6 76.68	0477 a10 89.26 −43.94 86.66
11	0406 S11 32.42 50.23 24.98	0415 T11 37.18 38.45 32.27	0424 U11 42.44 26.25 35.55	0433 V11 47.71 14.05 38.82	0442 W11 52.99 1.85 42.1	0451 X11 58.26 −10.34 45.37	0460 Y11 68.71 −20.68 55.36	0469 Z11 79.16 −31.02 65.35	0478 a11 89.6 −41.35 75.32
12	0407 S12 33.27 52.41 9.61	0416 T12 38.03 40.63 16.9	0425 U12 42.79 28.84 24.2	0434 V12 48.06 16.64 27.48	0443 W12 53.33 4.44 30.75	0452 X12 58.6 −7.75 34.03	0461 Y12 69.05 −18.09 44.01	0470 Z12 79.5 −28.43 54.0	0479 a12 89.94 −38.77 63.98
13	0408 S13 34.12 54.59 −5.75	0417 T13 38.88 42.81 1.53	0426 U13 43.64 31.02 8.83	0435 V13 48.4 19.22 16.13	0444 W13 53.67 7.02 19.41	0453 X13 58.94 −5.17 22.68	0462 Y13 69.39 −15.51 32.67	0471 Z13 79.85 −25.85 42.66	0480 a13 90.29 −36.18 52.64
14	0409 S14 34.97 56.77 −21.12	0418 T14 39.73 44.99 −13.83	0427 U14 44.49 33.2 −6.53	0436 V14 49.25 21.4 0.76	0445 W14 54.02 9.61 8.06	0454 X14 59.29 −2.58 11.34	0463 Y14 69.74 −12.92 21.33	0472 Z14 80.19 −23.27 31.31	0481 a14 90.63 −33.6 41.29
15	0410 S15 35.82 58.95 −36.49	0419 T15 40.58 47.17 −29.2	0428 U15 45.34 35.38 −21.9	0437 V15 50.11 23.58 −14.6	0446 W15 54.87 11.79 −7.3	0455 X15 59.64 0.0 −0.01	0464 Y15 70.08 −10.34 9.98	0473 Z15 80.53 −20.68 19.97	0482 a15 90.98 −31.01 29.95
16	0411 S16 39.62 68.46 −49.44	0420 T16 44.38 56.68 −42.15	0429 U16 49.14 44.88 −34.85	0438 V16 53.9 33.09 −27.55	0447 W16 58.67 21.3 −20.25	0456 X16 63.43 9.5 −12.95	0465 Y16 70.49 −5.76 −1.69	0474 Z16 80.94 −16.11 8.29	0483 a16 91.38 −26.44 18.27
17	0412 S17 43.42 77.97 −62.39	0421 T17 48.18 66.19 −55.1	0430 U17 52.94 54.39 −47.8	0439 V17 57.7 42.6 −40.5	0448 W17 62.46 30.8 −33.2	0457 X17 67.23 19.01 −25.9	0466 Y17 74.29 3.73 −14.64	0475 Z17 81.35 −11.53 −3.38	0484 a17 91.79 −21.87 6.59
18	0413 S18 47.21 87.47 −75.33	0422 T18 51.97 75.68 −68.03	0431 U18 56.73 63.89 −60.73	0440 V18 61.49 52.1 −53.43	0449 W18 66.26 40.3 −46.13	0458 X18 71.02 28.51 −38.83	0467 Y18 78.08 13.23 −27.58	0476 Z18 85.14 −2.03 −16.32	0485 a18 92.2 −17.3 −5.07
19	0648 S19 50.49 76.89 64.53	0657 T19 55.76 64.7 67.8	0666 U19 61.03 52.5 71.08	0675 V19 66.3 40.3 74.35	0684 W19 71.57 28.1 77.63	0693 X19 76.84 15.91 80.9	0702 Y19 82.11 3.71 84.18	0711 Z19 87.38 −8.48 87.45	0720 a19 92.65 −20.67 90.73
20	0649 S20 51.35 79.07 49.18	0658 T20 56.1 67.28 56.47	0667 U20 61.37 55.08 59.74	0676 V20 66.64 42.89 63.02	0685 W20 71.91 30.69 66.29	0694 X20 77.18 18.49 69.57	0703 Y20 82.45 6.29 72.84	0712 Z20 87.72 −5.9 76.12	0721 a20 92.99 −18.09 79.39
21	0650 S21 52.2 81.25 33.81	0659 T21 56.95 69.46 41.1	0668 U21 61.72 57.67 48.4	0677 V21 66.99 45.47 51.68	0686 W21 72.26 33.27 54.95	0695 X21 77.53 21.07 58.23	0704 Y21 82.8 8.87 61.5	0713 Z21 88.07 −3.31 64.78	0722 a21 93.33 −15.5 68.05
22	0651 S22 53.05 83.43 18.44	0660 T22 57.81 71.64 25.73	0669 U22 62.57 59.85 33.03	0678 V22 67.33 48.06 40.33	0687 W22 72.6 35.86 43.61	0696 X22 77.87 23.66 46.88	0705 Y22 83.14 11.46 50.16	0714 Z22 88.41 −0.73 53.43	0723 a22 93.68 −12.92 56.7
23	0652 S23 53.9 85.61 3.07	0661 T23 58.66 73.82 10.36	0670 U23 63.42 62.03 17.66	0679 V23 68.18 50.24 24.96	0688 W23 72.94 38.44 32.26	0697 X23 78.21 26.24 35.54	0706 Y23 83.48 14.04 38.81	0715 Z23 88.75 1.85 42.09	0724 a23 94.02 −10.33 45.36
24	0653 S24 54.75 87.79 −12.29	0662 T24 59.51 76.0 −5.0	0671 U24 64.27 64.21 2.29	0680 V24 69.03 52.42 9.59	0689 W24 73.8 40.62 16.89	0698 X24 78.56 28.83 24.19	0707 Y24 83.83 16.63 27.47	0716 Z24 89.1 4.43 30.74	0725 a24 94.36 −7.75 34.02
25	0654 S25 55.6 89.97 −27.66	0663 T25 60.36 78.18 −20.36	0672 U25 65.12 66.39 −13.06	0681 V25 69.88 54.6 −5.76	0690 W25 74.65 42.8 1.53	0699 X25 79.41 31.01 8.83	0708 Y25 84.17 19.21 16.13	0717 Z25 89.44 7.02 19.4	0726 a25 94.71 −5.16 22.67
26	0655 S26 56.45 92.15 −43.03	0664 T26 61.21 80.36 −35.73	0673 U26 65.97 68.57 −28.43	0682 V26 70.74 56.78 −21.13	0691 W26 75.5 44.98 −13.83	0700 X26 80.26 33.19 −6.53	0709 Y26 85.02 21.39 0.76	0718 Z26 89.79 9.6 8.06	0727 a26 95.05 −2.58 11.33
27	0656 S27 57.3 94.33 −58.38	0665 T27 62.06 82.54 −51.09	0674 U27 66.82 70.75 −43.79	0683 V27 71.59 58.95 −36.49	0692 W27 76.35 47.16 −29.19	0701 X27 81.11 35.37 −21.89	0710 Y27 85.87 23.57 −14.59	0719 Z27 90.64 11.78 −7.29	0728 a27 95.41 0.0 −0.01

	b	c	d	e	f	g	h	i	j
01	0729 b01 95.41 0.0 −0.01	0738 c01 89.79 9.6 8.06	0747 d01 84.17 19.21 16.13	0756 e01 78.56 28.83 24.19	0765 f01 72.94 38.44 32.26	0774 g01 67.33 48.06 40.33	0783 h01 61.72 57.67 48.4	0792 i01 56.1 67.28 56.47	0801 j01 50.49 76.89 64.53
02	0730 b02 94.33 −5.76 −1.69	0739 c02 83.49 0.0 −0.01	0748 d02 77.87 9.61 8.06	0757 e02 72.25 19.22 16.13	0766 f02 66.64 28.84 24.2	0775 g02 61.03 38.45 32.27	0784 h02 55.41 48.06 40.34	0793 i02 49.8 57.68 48.41	0802 j02 44.19 67.28 56.47
03	0731 b03 93.26 −11.53 −3.38	0740 c03 82.41 −5.76 −1.69	0749 d03 71.57 0.0 −0.01	0758 e03 65.94 9.61 8.06	0767 f03 60.33 19.22 16.13	0776 g03 54.71 28.84 24.2	0785 h03 49.1 38.45 32.27	0794 i03 43.49 48.06 40.34	0803 j03 37.88 57.67 48.4
04	0732 b04 92.2 −17.3 −5.07	0741 c04 81.35 −11.53 −3.38	0750 d04 70.49 −5.76 −1.69	0759 e04 59.64 0.0 −0.01	0768 f04 54.02 9.61 8.06	0777 g04 48.4 19.22 16.13	0786 h04 42.79 28.84 24.2	0795 i04 37.18 38.45 32.27	0804 j04 31.57 48.06 40.33
05	0733 b05 91.13 −23.07 −6.76	0742 c05 80.28 −17.3 −5.07	0751 d05 69.42 −11.53 −3.38	0760 e05 58.56 −5.76 −1.69	0769 f05 47.72 0.0 −0.01	0778 g05 42.09 9.61 8.06	0787 h05 36.48 19.22 16.13	0796 i05 30.86 28.84 24.2	0805 j05 25.25 38.44 32.26
06	0734 b06 90.07 −28.83 −8.46	0743 c06 79.22 −23.07 −6.77	0752 d06 68.36 −17.3 −5.07	0761 e06 57.5 −11.53 −3.38	0770 f06 46.64 −5.76 −1.69	0779 g06 35.79 0.0 −0.01	0788 h06 30.17 9.61 8.06	0797 i06 24.55 19.22 16.13	0806 j06 18.94 28.83 24.19
07	0735 b07 89.0 −34.6 −10.15	0744 c07 78.15 −28.84 −8.46	0753 d07 67.29 −23.07 −6.77	0762 e07 56.43 −17.3 −5.07	0771 f07 45.57 −11.53 −3.38	0780 g07 34.71 −5.76 −1.69	0789 h07 23.87 0.0 −0.01	0798 i07 18.24 9.61 8.06	0807 j07 12.63 19.21 16.13
08	0736 b08 87.93 −40.37 −11.84	0745 c08 77.08 −34.61 −10.15	0754 d08 66.22 −28.84 −8.46	0763 e08 55.36 −23.07 −6.77	0772 f08 44.51 −17.3 −5.07	0781 g08 33.65 −11.53 −3.38	0790 h08 22.79 −5.76 −1.69	0799 i08 11.94 0.0 −0.01	0808 j08 6.32 9.6 8.06
09	0737 b09 86.87 −46.14 −13.53	0746 c09 76.02 −40.37 −11.84	0755 d09 65.16 −34.6 −10.15	0764 e09 54.3 −28.83 −8.46	0773 f09 43.44 −23.07 −6.76	0782 g09 32.58 −17.3 −5.07	0791 h09 21.72 −11.53 −3.38	0800 i09 10.86 −5.76 −1.69	0809 j09 0.03 0.0 −0.01
10	0810 b10 95.41 0.0 −0.01	0819 c10 95.05 −2.58 11.33	0828 d10 94.71 −5.16 22.67	0837 e10 94.36 −7.75 34.02	0846 f10 94.02 −10.33 45.36	0855 g10 93.68 −12.92 56.7	0864 h10 93.33 −15.5 68.05	0873 i10 92.99 −18.09 79.39	0882 j10 92.65 −20.67 90.73
11	0811 b11 87.27 9.49 −12.93	0820 c11 83.49 0.0 −0.01	0829 d11 83.14 −2.58 11.34	0838 e11 82.79 −5.17 22.68	0847 f11 82.45 −7.75 34.03	0856 g11 82.11 −10.34 45.37	0865 h11 81.76 −12.92 56.71	0874 i11 81.42 −15.51 68.06	0883 j11 81.07 −18.09 79.39
12	0812 b12 79.15 19.0 −25.88	0821 c12 75.35 9.5 −12.95	0830 d12 71.57 0.0 −0.01	0839 e12 71.21 −2.58 11.34	0848 f12 70.87 −5.17 22.68	0857 g12 70.52 −7.75 34.03	0866 h12 70.18 −10.34 45.37	0875 i12 69.84 −12.92 56.71	0884 j12 69.49 −15.5 68.05
13	0813 b13 71.02 28.51 −38.83	0822 c13 67.23 19.01 −25.9	0831 d13 63.43 9.5 −12.95	0840 e13 59.64 0.0 −0.01	0849 f13 59.29 −2.58 11.34	0858 g13 58.94 −5.17 22.68	0867 h13 58.6 −7.75 34.03	0876 i13 58.26 −10.34 45.37	0885 j13 57.91 −12.92 56.7
14	0814 b14 62.89 38.02 −51.78	0823 c14 59.1 28.52 −38.84	0832 d14 55.3 19.01 −25.9	0841 e14 51.5 9.5 −12.95	0850 f14 47.72 0.0 −0.01	0859 g14 47.36 −2.58 11.34	0868 h14 47.02 −5.17 22.68	0877 i14 46.67 −7.75 34.03	0886 j14 46.33 −10.33 45.36
15	0815 b15 54.76 47.52 −64.73	0824 c15 50.97 38.03 −51.8	0833 d15 47.17 28.52 −38.84	0842 e15 43.38 19.01 −25.9	0851 f15 39.58 9.5 −12.95	0860 g15 35.79 0.0 −0.01	0869 h15 35.44 −2.58 11.34	0878 i15 35.09 −5.17 22.68	0887 j15 34.75 −7.75 34.02
16	0816 b16 46.64 57.03 −77.68	0825 c16 42.84 47.53 −64.75	0834 d16 39.05 38.03 −51.8	0843 e16 35.25 28.52 −38.84	0852 f16 31.45 19.01 −25.9	0861 g16 27.65 9.5 −12.95	0870 h16 23.87 0.0 −0.01	0879 i16 23.51 −2.58 11.34	0888 j16 23.17 −5.16 22.67
17	0817 b17 38.51 66.54 −90.63	0826 c17 34.71 57.04 −77.69	0835 d17 30.92 47.53 −64.75	0844 e17 27.12 38.03 −51.8	0853 f17 23.32 28.52 −38.84	0862 g17 19.53 19.01 −25.9	0871 h17 15.73 9.5 −12.95	0880 i17 11.94 0.0 −0.01	0889 j17 11.59 −2.58 11.33
18	0818 b18 30.39 76.04 −103.57	0827 c18 26.59 66.54 −90.63	0836 d18 22.8 57.03 −77.68	0845 e18 19.0 47.52 −64.73	0854 f18 15.2 38.02 −51.78	0863 g18 11.4 28.51 −38.83	0872 h18 7.61 19.0 −25.88	0881 i18 3.81 9.49 −12.93	0890 j18 0.03 0.0 −0.01
19	0891 b19 95.41 0.0 −0.01	0900 c19 93.92 −10.33 9.97	0909 d19 92.45 −20.67 19.96	0918 e19 90.98 −31.01 29.95	0927 f19 89.5 −41.36 39.94	0936 g19 88.03 −51.7 49.92	0945 h19 86.55 −62.04 59.91	0954 i19 85.08 −72.38 69.9	0963 j19 83.61 −82.72 79.88
20	0892 b20 90.64 11.78 −7.29	0901 c20 83.49 0.0 −0.01	0910 d20 82.01 −10.34 9.98	0919 e20 80.53 −20.68 19.97	0928 f20 79.06 −31.02 29.96	0937 g20 77.59 −41.37 39.95	0946 h20 76.11 −51.71 49.93	0955 i20 74.64 −62.05 59.92	0964 j20 73.16 −72.38 69.9
21	0893 b21 85.87 23.57 −14.59	0902 c21 78.72 11.79 −7.3	0911 d21 71.57 0.0 −0.01	0920 e21 70.08 −10.34 9.98	0929 f21 68.61 −20.68 19.97	0938 g21 67.13 −31.02 29.96	0947 h21 65.66 −41.37 39.95	0956 i21 64.19 −51.71 49.93	0965 j21 62.71 −62.04 59.91
22	0894 b22 81.11 35.37 −21.89	0903 c22 73.96 23.58 −14.6	0912 d22 66.79 11.79 −7.3	0921 e22 59.64 0.0 −0.01	0930 f22 58.16 −10.34 9.98	0939 g22 56.68 −20.68 19.97	0948 h22 55.21 −31.02 29.96	0957 i22 53.74 −41.37 39.95	0966 j22 52.26 −51.7 49.92
23	0895 b23 76.35 47.16 −29.19	0904 c23 69.19 35.38 −21.9	0913 d23 62.03 23.58 −14.6	0922 e23 54.87 11.79 −7.3	0931 f23 47.72 0.0 −0.01	0940 g23 46.23 −10.34 9.98	0949 h23 44.76 −20.68 19.97	0958 i23 43.28 −31.02 29.96	0967 j23 41.81 −41.36 39.94
24	0896 b24 71.59 58.95 −36.49	0905 c24 64.43 47.17 −29.2	0914 d24 57.27 35.38 −21.9	0923 e24 50.11 23.58 −14.6	0932 f24 42.94 11.79 −7.3	0941 g24 35.79 0.0 −0.01	0950 h24 34.31 −10.34 9.98	0959 i24 32.83 −20.68 19.97	0968 j24 31.36 −31.01 29.95
25	0897 b25 66.82 70.75 −43.79	0906 c25 59.67 58.96 −36.5	0915 d25 52.51 47.17 −29.2	0924 e25 45.34 35.38 −21.9	0933 f25 38.18 23.58 −14.6	0942 g25 31.02 11.79 −7.3	0951 h25 23.87 0.0 −0.01	0960 i25 22.38 −10.34 9.98	0969 j25 20.91 −20.67 19.96
26	0898 b26 62.06 82.54 −51.09	0907 c26 54.91 70.76 −43.8	0916 d26 47.74 58.96 −36.5	0925 e26 40.58 47.17 −29.2	0934 f26 33.42 35.38 −21.9	0943 g26 26.26 23.58 −14.6	0952 h26 19.09 11.79 −7.3	0961 i26 11.94 0.0 −0.01	0970 j26 10.46 −10.33 9.97
27	0899 b27 57.3 94.33 −58.38	0908 c27 50.15 82.54 −51.09	0917 d27 42.98 70.75 −43.79	0926 e27 35.82 58.95 −36.49	0935 f27 28.66 47.16 −29.19	0944 g27 21.5 35.37 −21.89	0953 h27 14.33 23.57 −14.59	0962 i27 7.17 11.78 −7.29	0971 j27 0.03 0.0 −0.01

	k	l	m	n
01	0972 k01 0.03 0.0 −0.01	0981 l01 0.03 0.0 −0.01	0990 m01 0.03 0.0 −0.01	0999 n01 0.03 0.0 −0.01
02	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0974 k03 23.87 0.0 −0.01	0983 l03 23.87 0.0 −0.01	0992 m03 23.87 0.0 −0.01	1001 n03 23.87 0.0 −0.01
04	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0976 k05 47.72 0.0 −0.01	0985 l05 47.72 0.0 −0.01	0994 m05 47.72 0.0 −0.01	1003 n05 47.72 0.0 −0.01
06	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0978 k07 71.57 0.0 −0.01	0987 l07 71.57 0.0 −0.01	0996 m07 71.57 0.0 −0.01	1005 n07 71.57 0.0 −0.01
08	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0980 k09 95.41 0.0 −0.01	0989 l09 95.41 0.0 −0.01	0998 m09 95.41 0.0 −0.01	1007 n09 95.41 0.0 −0.01
10	1008 k10 0.03 0.0 −0.01	1024 l10 0.03 0.0 −0.01	1040 m10 0.03 0.0 −0.01	1056 n10 0.03 0.0 −0.01
11	1009 k11 6.38 0.0 −0.01	1025 l11 6.38 0.0 −0.01	1041 m11 6.38 0.0 −0.01	1057 n11 6.38 0.0 −0.01
12	1010 k12 12.74 0.0 −0.01	1026 l12 12.74 0.0 −0.01	1042 m12 12.74 0.0 −0.01	1058 n12 12.74 0.0 −0.01
13	1011 k13 19.1 0.0 −0.01	1027 l13 19.1 0.0 −0.01	1043 m13 19.1 0.0 −0.01	1059 n13 19.1 0.0 −0.01
14	1012 k14 25.46 0.0 −0.01	1028 l14 25.46 0.0 −0.01	1044 m14 25.46 0.0 −0.01	1060 n14 25.46 0.0 −0.01
15	1013 k15 31.82 0.0 −0.01	1029 l15 31.82 0.0 −0.01	1045 m15 31.82 0.0 −0.01	1061 n15 31.82 0.0 −0.01
16	1014 k16 38.18 0.0 −0.01	1030 l16 38.18 0.0 −0.01	1046 m16 38.18 0.0 −0.01	1062 n16 38.18 0.0 −0.01
17	1015 k17 44.54 0.0 −0.01	1031 l17 44.54 0.0 −0.01	1047 m17 44.54 0.0 −0.01	1063 n17 44.54 0.0 −0.01
18	1016 k18 50.9 0.0 −0.01	1032 l18 50.9 0.0 −0.01	1048 m18 50.9 0.0 −0.01	1064 n18 50.9 0.0 −0.01
19	1017 k19 57.26 0.0 −0.01	1033 l19 57.26 0.0 −0.01	1049 m19 57.26 0.0 −0.01	1065 n19 57.26 0.0 −0.01
20	1018 k20 63.62 0.0 −0.01	1034 l20 63.62 0.0 −0.01	1050 m20 63.62 0.0 −0.01	1066 n20 63.62 0.0 −0.01
21	1019 k21 69.98 0.0 −0.01	1035 l21 69.98 0.0 −0.01	1051 m21 69.98 0.0 −0.01	1067 n21 69.98 0.0 −0.01
22	1020 k22 76.34 0.0 −0.01	1036 l22 76.34 0.0 −0.01	1052 m22 76.34 0.0 −0.01	1068 n22 76.34 0.0 −0.01
23	1021 k23 82.7 0.0 −0.01	1037 l23 82.7 0.0 −0.01	1053 m23 82.7 0.0 −0.01	1069 n23 82.7 0.0 −0.01
24	1022 k24 89.06 0.0 −0.01	1038 l24 89.06 0.0 −0.01	1054 m24 89.06 0.0 −0.01	1070 n24 89.06 0.0 −0.01
25	1023 k25 95.41 0.0 −0.01	1039 l25 95.41 0.0 −0.01	1055 m25 95.41 0.0 −0.01	1071 n25 95.41 0.0 −0.01
26	1072 k26 0.03 0.0 −0.01	1074 l26 50.49 76.89 64.53	1076 m26 92.65 −20.67 90.73	1078 n26 83.61 −82.72 79.88
27	1073 k27 95.41 0.0 −0.01	1075 l27 86.87 −46.14 −13.53	1077 m27 30.39 76.04 −103.57	1079 n27 57.3 94.33 −58.38

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 20/4, TLS70

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

	A	B	C	D	E	F	G	H	I
01	0000 A01 0.02 0.0 −0.01	0009 B01 6.06 −9.14 5.27	0018 C01 12.12 −18.29 10.54	0027 D01 18.17 −27.43 15.82	0036 E01 24.23 −36.58 21.1	0045 F01 30.28 −45.73 26.37	0054 G01 36.34 −54.88 31.65	0063 H01 42.39 −64.03 36.92	0072 I01 48.44 −73.17 42.2
02	0001 A02 2.07 5.72 −7.02	0010 B02 7.12 −4.13 −5.92	0019 C02 13.17 −13.28 −0.64	0028 D02 19.23 −22.43 4.63	0037 E02 25.28 −31.58 9.9	0046 F02 31.34 −40.73 15.18	0055 G02 37.39 −49.87 20.45	0064 H02 43.45 −59.02 25.73	0073 I02 49.5 −68.16 31.0
03	0002 A03 4.13 11.45 −14.04	0011 B03 9.18 1.59 −12.94	0020 C03 14.23 −8.27 −11.84	0029 D03 20.28 −17.42 −6.57	0038 E03 26.34 −26.57 −1.29	0047 F03 32.39 −35.72 3.98	0056 G03 38.45 −44.86 9.25	0065 H03 44.5 −54.01 14.53	0074 I03 50.55 −63.15 19.8
04	0003 A04 6.19 17.18 −21.07	0012 B04 11.24 7.32 −19.97	0021 C04 16.29 −2.54 −18.87	0030 D04 21.34 −12.41 −17.77	0039 E04 27.39 −21.56 −12.49	0048 F04 33.45 −30.71 −7.22	0057 G04 39.5 −39.85 −1.94	0066 H04 45.56 −49.0 3.33	0075 I04 51.61 −58.14 8.6
05	0004 A05 8.25 22.91 −28.1	0013 B05 13.29 13.05 −27.0	0022 C05 18.34 3.18 −25.9	0031 D05 23.39 −6.68 −24.8	0040 E05 28.44 −16.55 −23.7	0049 F05 34.5 −25.7 −18.42	0058 G05 40.55 −34.84 −13.14	0067 H05 46.61 −43.99 −7.87	0076 I05 52.66 −53.13 −2.59
06	0005 A06 10.31 28.64 −35.13	0014 B06 15.35 18.78 −34.03	0023 C06 20.4 8.91 −32.93	0032 D06 25.45 −0.95 −31.82	0041 E06 30.5 −10.82 −30.72	0050 F06 35.55 −20.69 −29.62	0059 G06 41.61 −29.83 −24.35	0068 H06 47.66 −38.98 −19.07	0077 I06 53.71 −48.12 −13.8
07	0006 A07 12.37 34.37 −42.15	0015 B07 17.41 24.51 −41.05	0024 C07 22.46 14.64 −39.95	0033 D07 27.51 4.77 −38.85	0042 E07 32.56 −5.09 −37.75	0051 F07 37.61 −14.96 −36.65	0060 G07 42.66 −24.82 −35.55	0069 H07 48.72 −33.97 −30.27	0078 I07 54.77 −43.11 −25.0
08	0007 A08 14.42 40.1 −49.18	0016 B08 19.47 30.24 −48.08	0025 C08 24.52 20.37 −46.98	0034 D08 29.57 10.5 −45.88	0043 E08 34.62 0.63 −44.78	0052 F08 39.67 −9.23 −43.68	0061 G08 44.72 −19.09 −42.58	0070 H08 49.77 −28.96 −41.47	0079 I08 55.82 −38.1 −36.2
09	0008 A09 16.48 45.83 −56.2	0017 B09 21.53 35.96 −55.1	0026 C09 26.58 26.1 −54.0	0035 D09 31.63 16.23 −52.9	0044 E09 36.68 6.36 −51.8	0053 F09 41.73 −3.5 −50.7	0062 G09 46.78 −13.37 −49.6	0071 H09 51.83 −23.24 −48.5	0080 I09 56.87 −33.1 −47.4
10	0243 A10 16.93 26.75 28.31	0252 B10 22.56 16.51 31.31	0261 C10 28.2 6.27 34.31	0270 D10 33.83 −3.97 37.3	0279 E10 39.89 −13.12 42.58	0288 F10 45.94 −22.27 47.85	0297 G10 52.0 −31.42 53.13	0306 H10 58.05 −40.56 58.41	0315 I10 64.1 −49.71 63.68
11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 −2.65 24.87	0280 E11 40.54 −11.79 30.15	0289 F11 46.59 −20.94 35.43	0298 G11 52.65 −30.09 40.7	0307 H11 58.7 −39.24 45.98	0316 I11 64.75 −48.38 51.25
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 −1.32 12.43	0281 E12 41.19 −10.47 17.71	0290 F12 47.24 −19.62 22.99	0299 G12 53.3 −28.77 28.26	0308 H12 59.35 −37.92 33.54	0317 I12 65.4 −47.06 38.81
13	0246 A13 17.02 30.68 −3.48	0255 B13 23.27 20.46 −2.32	0264 C13 29.52 10.23 −1.16	0273 D13 35.79 0.0 −0.01	0282 E13 41.84 −9.14 5.27	0291 F13 47.89 −18.29 10.55	0300 G13 53.95 −27.44 15.82	0309 H13 60.0 −36.59 21.1	0318 I13 66.05 −45.73 26.37
14	0247 A14 19.08 36.41 −10.51	0256 B14 25.33 26.19 −9.35	0265 C14 31.58 15.96 −8.18	0274 D14 37.84 5.73 −7.02	0283 E14 42.89 −4.13 −5.92	0292 F14 48.94 −13.28 −0.65	0301 G14 55.0 −22.43 4.62	0310 H14 61.05 −31.58 9.9	0319 I14 67.1 −40.72 15.17
15	0248 A15 21.13 42.14 −17.53	0257 B15 27.39 31.92 −16.37	0266 C15 33.64 21.69 −15.21	0275 D15 39.9 11.46 −14.05	0284 E15 44.95 1.59 −12.95	0293 F15 50.0 −8.27 −11.85	0302 G15 56.05 −17.42 −6.57	0311 H15 62.11 −26.57 −1.3	0320 I15 68.16 −35.71 3.97
16	0249 A16 23.19 47.87 −24.56	0258 B16 29.44 37.65 −23.4	0267 C16 35.7 27.42 −22.24	0276 D16 41.96 17.19 −21.08	0285 E16 47.01 7.32 −19.98	0294 F16 52.06 −2.54 −18.88	0303 G16 57.11 −12.41 −17.77	0312 H16 63.16 −21.56 −12.5	0321 I16 69.21 −30.7 −7.23
17	0250 A17 25.25 53.6 −31.59	0259 B17 31.5 43.38 −30.43	0268 C17 37.76 33.15 −29.27	0277 D17 44.02 22.92 −28.11	0286 E17 49.07 13.05 −27.0	0295 F17 54.12 3.18 −25.9	0304 G17 59.17 −6.68 −24.8	0313 H17 64.22 −16.55 −23.7	0322 I17 70.27 −25.69 −18.43
18	0251 A18 27.31 59.33 −38.61	0260 B18 33.56 49.1 −37.45	0269 C18 39.82 38.87 −36.29	0278 D18 46.07 28.64 −35.13	0287 E18 51.12 18.77 −34.03	0296 F18 56.17 8.9 −32.92	0305 G18 61.22 −0.96 −31.82	0314 H18 66.27 −10.82 −30.72	0323 I18 71.32 −20.69 −29.62
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 −7.94 74.62	0549 H19 73.72 −17.09 79.89	0558 I19 79.77 −26.23 85.17
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 −6.62 62.19	0550 H20 74.37 −15.77 67.47	0559 I20 80.42 −24.91 72.74
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 −5.3 49.75	0551 H21 75.02 −14.44 55.03	0560 I21 81.07 −23.59 60.3
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 −3.97 37.31	0552 H22 75.66 −13.12 42.59	0561 I22 81.71 −22.26 47.86
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 −2.65 24.87	0553 H23 76.31 −11.79 30.15	0562 I23 82.36 −20.94 35.42
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 −1.32 12.43	0554 H24 76.96 −10.47 17.71	0563 I24 83.01 −19.61 22.98
25	0492 A25 34.02 61.37 −6.96	0501 B25 40.27 51.15 −5.8	0510 C25 46.53 40.92 −4.64	0519 D25 52.79 30.69 −3.48	0528 E25 59.04 20.46 −2.32	0537 F25 65.3 10.23 −1.16	0546 G25 71.56 0.0 −0.01	0555 H25 77.61 −9.14 5.27	0564 I25 83.66 −18.29 10.54
26	0493 A26 36.08 67.1 −13.99	0502 B26 42.33 56.88 −12.83	0511 C26 48.59 46.65 −11.67	0520 D26 54.85 36.42 −10.51	0529 E26 61.1 26.19 −9.35	0538 F26 67.36 15.96 −8.18	0547 G26 73.61 5.73 −7.02	0556 H26 78.66 −4.13 −5.92	0565 I26 84.71 −13.28 −0.65
27	0494 A27 38.14 72.83 −21.01	0503 B27 44.39 62.61 −19.85	0512 C27 50.65 52.38 −18.69	0521 D27 56.9 42.14 −17.53	0530 E27 63.16 31.91 −16.37	0539 F27 69.41 21.68 −15.21	0548 G27 75.67 11.45 −14.04	0557 H27 80.72 1.58 −12.94	0566 I27 85.77 −8.27 −11.84

	J	K	L	M	N	O	P	Q	R
01	0081 J01 5.65 8.91 9.43	0090 K01 11.28 −1.32 12.42	0099 L01 17.34 −10.47 17.7	0108 M01 23.39 −19.62 22.98	0117 N01 29.45 −28.77 28.25	0126 O01 35.5 −37.91 33.53	0135 P01 41.56 −47.06 38.81	0144 Q01 47.61 −56.21 44.08	0153 R01 53.66 −65.35 49.35
02	0082 J02 5.68 10.22 −1.16	0091 K02 11.94 0.0 −0.01	0100 L02 17.99 −9.14 5.27	0109 M02 24.04 −18.29 10.55	0118 N02 30.1 −27.44 15.82	0127 O02 36.15 −36.59 21.1	0136 P02 42.21 −45.74 26.38	0145 Q02 48.26 −54.89 31.65	0154 R02 54.31 −64.03 36.92
03	0083 J03 7.74 15.95 −8.18	0092 K03 13.99 5.73 −7.02	0101 L03 19.04 −4.13 −5.92	0110 M03 25.09 −13.28 −0.65	0119 N03 31.15 −22.43 4.62	0128 O03 37.2 −31.58 9.9	0137 P03 43.26 −40.73 15.17	0146 Q03 49.31 −49.88 20.45	0155 R03 55.36 −59.02 25.72
04	0084 J04 9.8 21.68 −15.21	0093 K04 16.05 11.46 −14.05	0102 L04 21.1 1.59 −12.95	0111 M04 26.15 −8.27 −11.85	0120 N04 32.2 −17.42 −6.57	0129 O04 38.26 −26.57 −1.3	0138 P04 44.31 −35.72 3.97	0147 Q04 50.37 −44.87 9.25	0156 R04 56.42 −54.01 14.52
05	0085 J05 11.86 27.41 −22.24	0094 K05 18.11 17.19 −21.08	0103 L05 23.16 7.32 −19.98	0112 M05 28.21 −2.54 −18.88	0121 N05 33.26 −12.41 −17.77	0130 O05 39.31 −21.56 −12.5	0139 P05 45.37 −30.71 −7.22	0148 Q05 51.42 −39.86 −1.94	0157 R05 57.47 −49.0 3.32
06	0086 J06 13.91 33.14 −29.27	0095 K06 20.17 22.92 −28.11	0104 L06 25.22 13.05 −27.0	0113 M06 30.27 3.18 −25.9	0122 N06 35.32 −6.68 −24.8	0131 O06 40.37 −16.55 −23.7	0140 P06 46.42 −25.7 −18.42	0149 Q06 52.48 −34.85 −13.15	0158 R06 58.53 −43.99 −7.88
07	0087 J07 15.97 38.87 −36.29	0096 K07 22.22 28.65 −35.13	0105 L07 27.27 18.78 −34.03	0114 M07 32.32 8.91 −32.93	0123 N07 37.37 −0.95 −31.83	0132 O07 42.42 −10.82 −30.73	0141 P07 47.47 −20.69 −29.63	0150 Q07 53.53 −29.84 −24.35	0159 R07 59.58 −38.98 −19.08
08	0088 J08 18.03 44.6 −43.32	0097 K08 24.28 34.38 −42.16	0106 L08 29.33 24.51 −41.06	0115 M08 34.38 14.64 −39.96	0124 N08 39.43 4.77 −38.86	0133 O08 44.48 −5.09 −37.76	0142 P08 49.53 −14.96 −36.65	0151 Q08 54.58 −24.83 −35.55	0160 R08 60.63 −33.97 −30.28
09	0089 J09 20.09 50.32 −50.34	0098 K09 26.34 40.1 −49.18	0107 L09 31.39 30.23 −48.08	0116 M09 36.44 20.36 −46.98	0125 N09 41.49 10.49 −45.88	0134 O09 46.54 0.63 −44.78	0143 P09 51.59 −9.23 −43.68	0152 Q09 56.64 −19.1 −42.57	0161 R09 61.69 −28.96 −41.47
10	0324 J10 22.58 35.67 37.76	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 −5.29 49.74	0369 O10 51.17 −14.44 55.02	0378 P10 57.22 −23.59 60.29	0387 Q10 63.28 −32.74 65.57	0396 R10 69.33 −41.88 70.84
11	0325 J11 22.6 36.98 27.16	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 −3.97 37.31	0370 O11 51.81 −13.12 42.59	0379 P11 57.87 −22.27 47.86	0388 Q11 63.92 −31.42 53.14	0397 R11 69.97 −40.56 58.41
12	0326 J12 22.63 38.29 16.56	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 −2.65 24.87	0371 O12 52.46 −11.79 30.15	0380 P12 58.52 −20.94 35.43	0389 Q12 64.57 −30.09 40.7	0398 R12 70.62 −39.23 45.97
13	0327 J13 22.66 39.6 5.95	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 −1.32 12.43	0372 O13 53.11 −10.47 17.71	0381 P13 59.17 −19.62 22.99	0390 Q13 65.22 −28.77 28.26	0399 R13 71.27 −37.91 33.53
14	0328 J14 22.69 40.91 −4.64	0337 K14 28.94 30.69 −3.48	0346 L14 35.19 20.46 −2.32	0355 M14 41.45 10.23 −1.16	0364 N14 47.71 0.0 −0.01	0373 O14 53.76 −9.14 5.27	0382 P14 59.82 −18.29 10.55	0391 Q14 65.87 −27.44 15.82	0400 R14 71.92 −36.58 21.1
15	0329 J15 24.74 46.64 −11.67	0338 K15 31.0 36.42 −10.51	0347 L15 37.25 26.19 −9.35	0356 M15 43.51 15.96 −8.18	0365 N15 49.76 5.73 −7.02	0374 O15 54.81 −4.13 −5.92	0383 P15 60.87 −13.28 −0.65	0392 Q15 66.92 −22.43 4.62	0401 R15 72.97 −31.57 9.89
16	0330 J16 26.8 52.37 −18.69	0339 K16 33.05 42.15 −17.53	0348 L16 39.31 31.92 −16.37	0357 M16 45.57 21.69 −15.21	0366 N16 51.82 11.46 −14.05	0375 O16 56.87 1.59 −12.95	0384 P16 61.92 −8.27 −11.85	0393 Q16 67.98 −17.42 −6.57	0402 R16 74.03 −26.56 −1.3
17	0331 J17 28.86 58.1 −25.72	0340 K17 35.11 47.88 −24.56	0349 L17 41.37 37.65 −23.4	0358 M17 47.63 27.42 −22.24	0367 N17 53.88 17.19 −21.08	0376 O17 58.93 7.32 −19.98	0385 P17 63.98 −2.54 −18.88	0394 Q17 69.03 −12.41 −17.77	0403 R17 75.08 −21.55 −12.5
18	0332 J18 30.92 63.83 −32.74	0341 K18 37.17 53.6 −31.58	0350 L18 43.43 43.37 −30.42	0359 M18 49.68 33.14 −29.26	0368 N18 55.94 22.91 −28.1	0377 O18 60.99 13.04 −27.0	0386 P18 66.04 3.17 −25.9	0395 Q18 71.09 −6.69 −24.8	0404 R18 76.13 −16.55 −23.7
19	0567 J19 39.5 62.44 66.08	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 −9.27 87.06	0639 R19 84.99 −18.41 92.33
20	0568 J20 39.53 63.75 55.49	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 −7.95 74.63	0640 R20 85.64 −17.09 79.9
21	0569 J21 39.55 65.06 44.89	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 −6.62 62.19	0641 R21 86.29 −15.76 67.46
22	0570 J22 39.58 66.37 34.28	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 −5.3 49.75	0642 R22 86.94 −14.44 55.02
23	0571 J23 39.61 67.68 23.68	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 −3.97 37.31	0643 R23 87.58 −13.11 42.58
24	0572 J24 39.64 68.99 13.07	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 −2.65 24.87	0644 R24 88.23 −11.79 30.14
25	0573 J25 39.66 70.3 2.47	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 −1.32 12.43	0645 R25 88.88 −10.46 17.71
26	0574 J26 39.69 71.61 −8.12	0583 K26 45.94 61.38 −6.96	0592 L26 52.2 51.15 −5.8	0601 M26 58.46 40.92 −4.64	0610 N26 64.71 30.69 −3.48	0619 O26 70.97 20.46 −2.32	0628 P26 77.22 10.23 −1.16	0637 Q26 83.49 0.0 −0.01	0646 R26 89.53 −9.14 5.27
27	0575 J27 41.75 77.33 −15.14	0584 K27 48.0 67.11 −13.98	0593 L27 54.26 56.88 −12.82	0602 M27 60.51 46.65 −11.66	0611 N27 66.77 36.41 −10.5	0620 O27 73.02 26.18 −9.34	0629 P27 79.28 15.95 −8.18	0638 Q27 85.54 5.72 −7.02	0647 R27 90.58 −4.13 −5.92

	S	T	U	V	W	X	Y	Z	a
01	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87	0180 U01 22.56 −2.64 24.86	0189 V01 28.61 −11.79 30.14	0198 W01 34.67 −20.94 35.42	0207 X01 40.72 −30.09 40.69	0216 Y01 46.78 −39.24 45.97	0225 Z01 52.83 −48.39 51.24	0234 a01 58.88 −57.53 56.52
02	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44	0181 U02 23.21 −1.32 12.43	0190 V02 29.26 −10.47 17.71	0199 W02 35.32 −19.62 22.99	0208 X02 41.37 −28.77 28.26	0217 Y02 47.43 −37.92 33.54	0226 Z02 53.48 −47.06 38.82	0235 a02 59.53 −56.21 44.09
03	0164 S03 11.35 20.45 −2.32	0173 T03 17.6 10.23 −1.16	0182 U03 23.86 0.0 −0.01	0191 V03 29.91 −9.14 5.27	0200 W03 35.96 −18.29 10.55	0209 X03 42.02 −27.44 15.82	0218 Y03 48.08 −36.59 21.1	0227 Z03 54.13 −45.74 26.38	0236 a03 60.18 −54.88 31.65
04	0165 S04 13.41 26.18 −9.34	0174 T04 19.66 15.96 −8.18	0183 U04 25.91 5.73 −7.02	0192 V04 30.96 −4.13 −5.92	0201 W04 37.02 −13.28 −0.65	0210 X04 43.07 −22.43 4.62	0219 Y04 49.13 −31.58 9.9	0228 Z04 55.18 −40.73 15.17	0237 a04 61.23 −49.87 20.45
05	0166 S05 15.47 31.91 −16.37	0175 T05 21.72 21.69 −15.21	0184 U05 27.97 11.46 −14.05	0193 V05 33.02 1.59 −12.95	0202 W05 38.07 −8.27 −11.85	0211 X05 44.13 −17.42 −6.57	0220 Y05 50.18 −26.57 −1.3	0229 Z05 56.24 −35.72 3.97	0238 a05 62.29 −44.86 9.24
06	0167 S06 17.52 37.64 −23.4	0176 T06 23.78 27.42 −22.24	0185 U06 30.03 17.19 −21.08	0194 V06 35.08 7.32 −19.98	0203 W06 40.13 −2.54 −18.88	0212 X06 45.18 −12.41 −17.77	0221 Y06 51.24 −21.56 −12.5	0230 Z06 57.29 −30.71 −7.22	0239 a06 63.34 −39.85 −1.95
07	0168 S07 19.58 43.37 −30.43	0177 T07 25.83 33.15 −29.27	0186 U07 32.09 22.92 −28.11	0195 V07 37.14 13.05 −27.0	0204 W07 42.19 3.18 −25.9	0213 X07 47.24 −6.68 −24.8	0222 Y07 52.29 −16.55 −23.7	0231 Z07 58.35 −25.7 −18.42	0240 a07 64.4 −34.84 −13.15
08	0169 S08 21.64 49.1 −37.45	0178 T08 27.89 38.88 −36.29	0187 U08 34.15 28.65 −35.13	0196 V08 39.2 18.78 −34.03	0205 W08 44.25 8.91 −32.93	0214 X08 49.3 −0.95 −31.83	0223 Y08 54.35 −10.82 −30.73	0232 Z08 59.4 −20.69 −29.63	0241 a08 65.45 −29.83 −24.35
09	0170 S09 23.7 54.82 −44.48	0179 T09 29.95 44.6 −43.32	0188 U09 36.21 34.37 −42.15	0197 V09 41.26 24.5 −41.05	0206 W09 46.31 14.63 −39.95	0215 X09 51.36 4.76 −38.85	0224 Y09 56.41 −5.09 −37.75	0233 Z09 61.46 −14.96 −36.65	0242 a09 66.5 −24.82 −35.55
10	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 −6.62 62.18	0459 Y10 62.44 −15.77 67.46	0468 Z10 68.5 −24.92 72.73	0477 a10 74.55 −34.06 78.0
11	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 −5.3 49.75	0460 Y11 63.09 −14.44 55.03	0469 Z11 69.15 −23.59 60.3	0478 a11 75.2 −32.73 65.57
12	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 −3.97 37.31	0461 Y12 63.74 −13.12 42.59	0470 Z12 69.79 −22.27 47.86	0479 a12 75.84 −31.41 53.14
13	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 −2.65 24.87	0462 Y13 64.39 −11.79 30.15	0471 Z13 70.44 −20.94 35.43	0480 a13 76.49 −30.08 40.7
14	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 −1.32 12.43	0463 Y14 65.04 −10.47 17.71	0472 Z14 71.09 −19.62 22.99	0481 a14 77.14 −28.76 28.26
15	0410 S15 28.35 51.14 −5.8	0419 T15 34.61 40.92 −4.64	0428 U15 40.86 30.69 −3.48	0437 V15 47.12 20.46 −2.32	0446 W15 53.37 10.23 −1.16	0455 X15 59.64 0.0 −0.01	0464 Y15 65.69 −9.14 5.27	0473 Z15 71.74 −18.29 10.55	0482 a15 77.79 −27.43 15.82
16	0411 S16 30.41 56.87 −12.83	0420 T16 36.66 46.65 −11.67	0429 U16 42.92 36.42 −10.51	0438 V16 49.18 26.19 −9.35	0447 W16 55.43 15.96 −8.18	0456 X16 61.69 5.73 −7.02	0465 Y16 66.74 −4.13 −5.92	0474 Z16 72.79 −13.28 −0.65	0483 a16 78.84 −22.42 4.62
17	0412 S17 32.47 62.6 −19.86	0421 T17 38.72 52.38 −18.7	0430 U17 44.98 42.15 −17.53	0439 V17 51.24 31.92 −16.37	0448 W17 57.49 21.69 −15.21	0457 X17 63.75 11.46 −14.05	0466 Y17 68.8 1.59 −12.95	0475 Z17 73.85 −8.27 −11.85	0484 a17 79.9 −17.41 −6.58
18	0413 S18 34.53 68.33 −26.88	0422 T18 40.78 58.11 −25.72	0431 U18 47.04 47.87 −24.56	0440 V18 53.29 37.64 −23.39	0449 W18 59.55 27.41 −22.23	0458 X18 65.8 17.18 −21.07	0467 Y18 70.85 7.31 −19.97	0476 Z18 75.9 −2.55 −18.87	0485 a18 80.95 −12.41 −17.77
19	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 −0.35 96.49	0720 a19 90.21 −10.59 99.49
20	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 −9.27 87.06
21	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 −7.94 74.62
22	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 −6.62 62.18
23	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 −5.29 49.74
24	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 −3.97 37.3
25	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 −2.64 24.86
26	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 −1.32 12.42
27	0656 S27 45.36 81.83 −9.28	0665 T27 51.61 71.61 −8.12	0674 U27 57.86 61.37 −6.96	0683 V27 64.12 51.14 −5.8	0692 W27 70.38 40.91 −4.64	0701 X27 76.63 30.68 −3.48	0710 Y27 82.89 20.45 −2.32	0719 Z27 89.14 10.22 −1.16	0728 a27 95.4 0.0 −0.01

	b	c	d	e	f	g	h	i	j
01	0729 b01 95.4 0.0 −0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52
02	0730 b02 90.58 −4.13 −5.92	0739 c02 83.49 0.0 −0.01	0748 d02 77.2 8.92 9.44	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08
03	0731 b03 85.77 −8.27 −11.84	0740 c03 78.66 −4.13 −5.92	0749 d03 71.56 0.0 −0.01	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64
04	0732 b04 80.95 −12.41 −17.77	0741 c04 73.85 −8.27 −11.85	0750 d04 66.74 −4.13 −5.92	0759 e04 59.64 0.0 −0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2
05	0733 b05 76.13 −16.55 −23.7	0742 c05 69.03 −12.41 −17.77	0751 d05 61.92 −8.27 −11.85	0760 e05 54.81 −4.13 −5.92	0769 f05 47.71 0.0 −0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76
06	0734 b06 71.32 −20.69 −29.62	0743 c06 64.22 −16.55 −23.7	0752 d06 57.11 −12.41 −17.77	0761 e06 50.0 −8.27 −11.85	0770 f06 42.89 −4.13 −5.92	0779 g06 35.79 0.0 −0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31
07	0735 b07 66.5 −24.82 −35.55	0744 c07 59.4 −20.69 −29.63	0753 d07 52.29 −16.55 −23.7	0762 e07 45.18 −12.41 −17.77	0771 f07 38.07 −8.27 −11.85	0780 g07 30.96 −4.13 −5.92	0789 h07 23.86 0.0 −0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87
08	0736 b08 61.69 −28.96 −41.47	0745 c08 54.58 −24.83 −35.55	0754 d08 47.47 −20.69 −29.63	0763 e08 40.37 −16.55 −23.7	0772 f08 33.26 −12.41 −17.77	0781 g08 26.15 −8.27 −11.85	0790 h08 19.04 −4.13 −5.92	0799 i08 11.94 0.0 −0.01	0808 j08 5.65 8.91 9.43
09	0737 b09 56.87 −33.1 −47.4	0746 c09 49.77 −28.96 −41.47	0755 d09 42.66 −24.82 −35.55	0764 e09 35.55 −20.69 −29.62	0773 f09 28.44 −16.55 −23.7	0782 g09 21.34 −12.41 −17.77	0791 h09 14.23 −8.27 −11.84	0800 i09 7.12 −4.13 −5.92	0809 j09 0.02 0.0 −0.01
10	0810 b10 95.4 0.0 −0.01	0819 c10 94.75 −1.32 12.42	0828 d10 94.1 −2.64 24.86	0837 e10 93.45 −3.97 37.3	0846 f10 92.8 −5.29 49.74	0855 g10 92.15 −6.62 62.18	0864 h10 91.5 −7.94 74.62	0873 i10 90.85 −9.27 87.06	0882 j10 90.21 −10.59 99.49
11	0811 b11 85.54 5.72 −7.02	0820 c11 83.49 0.0 −0.01	0829 d11 82.83 −1.32 12.43	0838 e11 82.18 −2.65 24.87	0847 f11 81.53 −3.97 37.31	0856 g11 80.89 −5.3 49.75	0865 h11 80.24 −6.62 62.19	0874 i11 79.59 −7.95 74.63	0883 j11 78.94 −9.27 87.06
12	0812 b12 75.67 11.45 −14.04	0821 c12 73.61 5.73 −7.02	0830 d12 71.56 0.0 −0.01	0839 e12 70.91 −1.32 12.43	0848 f12 70.26 −2.65 24.87	0857 g12 69.61 −3.97 37.31	0866 h12 68.96 −5.3 49.75	0875 i12 68.31 −6.62 62.19	0884 j12 67.66 −7.94 74.62
13	0813 b13 65.8 17.18 −21.07	0822 c13 63.75 11.46 −14.05	0831 d13 61.69 5.73 −7.02	0840 e13 59.64 0.0 −0.01	0849 f13 58.98 −1.32 12.43	0858 g13 58.33 −2.65 24.87	0867 h13 57.68 −3.97 37.31	0876 i13 57.03 −5.3 49.75	0885 j13 56.39 −6.62 62.18
14	0814 b14 55.94 22.91 −28.1	0823 c14 53.88 17.19 −21.08	0832 d14 51.82 11.46 −14.05	0841 e14 49.76 5.73 −7.02	0850 f14 47.71 0.0 −0.01	0859 g14 47.06 −1.32 12.43	0868 h14 46.41 −2.65 24.87	0877 i14 45.76 −3.97 37.31	0886 j14 45.11 −5.29 49.74
15	0815 b15 46.07 28.64 −35.13	0824 c15 44.02 22.92 −28.11	0833 d15 41.96 17.19 −21.08	0842 e15 39.9 11.46 −14.05	0851 f15 37.84 5.73 −7.02	0860 g15 35.79 0.0 −0.01	0869 h15 35.13 −1.32 12.43	0878 i15 34.48 −2.65 24.87	0887 j15 33.83 −3.97 37.3
16	0816 b16 36.21 34.37 −42.15	0825 c16 34.15 28.65 −35.13	0834 d16 32.09 22.92 −28.11	0843 e16 30.03 17.19 −21.08	0852 f16 27.97 11.46 −14.05	0861 g16 25.91 5.73 −7.02	0870 h16 23.86 0.0 −0.01	0879 i16 23.21 −1.32 12.43	0888 j16 22.56 −2.64 24.86
17	0817 b17 26.34 40.1 −49.18	0826 c17 24.28 34.38 −42.16	0835 d17 22.22 28.65 −35.13	0844 e17 20.17 22.92 −28.11	0853 f17 18.11 17.19 −21.08	0862 g17 16.05 11.46 −14.05	0871 h17 13.99 5.73 −7.02	0880 i17 11.94 0.0 −0.01	0889 j17 11.28 −1.32 12.42
18	0818 b18 16.48 45.83 −56.2	0827 c18 14.42 40.1 −49.18	0836 d18 12.37 34.37 −42.15	0845 e18 10.31 28.64 −35.13	0854 f18 8.25 22.91 −28.1	0863 g18 6.19 17.18 −21.07	0872 h18 4.13 11.45 −14.04	0881 i18 2.07 5.72 −7.02	0890 j18 0.02 0.0 −0.01
19	0891 b19 95.4 0.0 −0.01	0900 c19 89.53 −9.14 5.27	0909 d19 83.66 −18.29 10.54	0918 e19 77.79 −27.43 15.82	0927 f19 71.92 −36.58 21.1	0936 g19 66.05 −45.73 26.37	0945 h19 60.18 −54.88 31.65	0954 i19 54.31 −64.03 36.92	0963 j19 48.44 −73.17 42.2
20	0892 b20 89.14 10.22 −1.16	0901 c20 83.49 0.0 −0.01	0910 d20 77.61 −9.14 5.27	0919 e20 71.74 −18.29 10.55	0928 f20 65.87 −27.44 15.82	0937 g20 60.0 −36.59 21.1	0946 h20 54.13 −45.74 26.38	0955 i20 48.26 −54.89 31.65	0964 j20 42.39 −64.03 36.92
21	0893 b21 82.89 20.45 −2.32	0902 c21 77.22 10.23 −1.16	0911 d21 71.56 0.0 −0.01	0920 e21 65.69 −9.14 5.27	0929 f21 59.82 −18.29 10.55	0938 g21 53.95 −27.44 15.82	0947 h21 48.08 −36.59 21.1	0956 i21 42.21 −45.74 26.38	0965 j21 36.34 −54.88 31.65
22	0894 b22 76.63 30.68 −3.48	0903 c22 70.97 20.46 −2.32	0912 d22 65.3 10.23 −1.16	0921 e22 59.64 0.0 −0.01	0930 f22 53.76 −9.14 5.27	0939 g22 47.89 −18.29 10.55	0948 h22 42.02 −27.44 15.82	0957 i22 36.15 −36.59 21.1	0966 j22 30.28 −45.73 26.37
23	0895 b23 70.38 40.91 −4.64	0904 c23 64.71 30.69 −3.48	0913 d23 59.04 20.46 −2.32	0922 e23 53.37 10.23 −1.16	0931 f23 47.71 0.0 −0.01	0940 g23 41.84 −9.14 5.27	0949 h23 35.96 −18.29 10.55	0958 i23 30.1 −27.44 15.82	0967 j23 24.23 −36.58 21.1
24	0896 b24 64.12 51.14 −5.8	0905 c24 58.46 40.92 −4.64	0914 d24 52.79 30.69 −3.48	0923 e24 47.12 20.46 −2.32	0932 f24 41.45 10.23 −1.16	0941 g24 35.79 0.0 −0.01	0950 h24 29.91 −9.14 5.27	0959 i24 24.04 −18.29 10.55	0968 j24 18.17 −27.43 15.82
25	0897 b25 57.86 61.37 −6.96	0906 c25 52.2 51.15 −5.8	0915 d25 46.53 40.92 −4.64	0924 e25 40.86 30.69 −3.48	0933 f25 35.19 20.46 −2.32	0942 g25 29.52 10.23 −1.16	0951 h25 23.86 0.0 −0.01	0960 i25 17.99 −9.14 5.27	0969 j25 12.12 −18.29 10.54
26	0898 b26 51.61 71.61 −8.12	0907 c26 45.94 61.38 −6.96	0916 d26 40.27 51.15 −5.8	0925 e26 34.61 40.92 −4.64	0934 f26 28.94 30.69 −3.48	0943 g26 23.27 20.46 −2.32	0952 h26 17.6 10.23 −1.16	0961 i26 11.94 0.0 −0.01	0970 j26 6.06 −9.14 5.27
27	0899 b27 45.36 81.83 −9.28	0908 c27 39.69 71.61 −8.12	0917 d27 34.02 61.37 −6.96	0926 e27 28.35 51.14 −5.8	0935 f27 22.69 40.91 −4.64	0944 g27 17.02 30.68 −3.48	0953 h27 11.35 20.45 −2.32	0962 i27 5.68 10.22 −1.16	0971 j27 0.02 0.0 −0.01

	k	l	m	n
01	0972 k01 0.02 0.0 −0.01	0981 l01 0.02 0.0 −0.01	0990 m01 0.02 0.0 −0.01	0999 n01 0.02 0.0 −0.01
02	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0974 k03 23.86 0.0 −0.01	0983 l03 23.86 0.0 −0.01	0992 m03 23.86 0.0 −0.01	1001 n03 23.86 0.0 −0.01
04	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0976 k05 47.71 0.0 −0.01	0985 l05 47.71 0.0 −0.01	0994 m05 47.71 0.0 −0.01	1003 n05 47.71 0.0 −0.01
06	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0978 k07 71.56 0.0 −0.01	0987 l07 71.56 0.0 −0.01	0996 m07 71.56 0.0 −0.01	1005 n07 71.56 0.0 −0.01
08	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0980 k09 95.4 0.0 −0.01	0989 l09 95.4 0.0 −0.01	0998 m09 95.4 0.0 −0.01	1007 n09 95.4 0.0 −0.01
10	1008 k10 0.02 0.0 −0.01	1024 l10 0.02 0.0 −0.01	1040 m10 0.02 0.0 −0.01	1056 n10 0.02 0.0 −0.01
11	1009 k11 6.37 0.0 −0.01	1025 l11 6.37 0.0 −0.01	1041 m11 6.37 0.0 −0.01	1057 n11 6.37 0.0 −0.01
12	1010 k12 12.73 0.0 −0.01	1026 l12 12.73 0.0 −0.01	1042 m12 12.73 0.0 −0.01	1058 n12 12.73 0.0 −0.01
13	1011 k13 19.09 0.0 −0.01	1027 l13 19.09 0.0 −0.01	1043 m13 19.09 0.0 −0.01	1059 n13 19.09 0.0 −0.01
14	1012 k14 25.45 0.0 −0.01	1028 l14 25.45 0.0 −0.01	1044 m14 25.45 0.0 −0.01	1060 n14 25.45 0.0 −0.01
15	1013 k15 31.81 0.0 −0.01	1029 l15 31.81 0.0 −0.01	1045 m15 31.81 0.0 −0.01	1061 n15 31.81 0.0 −0.01
16	1014 k16 38.17 0.0 −0.01	1030 l16 38.17 0.0 −0.01	1046 m16 38.17 0.0 −0.01	1062 n16 38.17 0.0 −0.01
17	1015 k17 44.53 0.0 −0.01	1031 l17 44.53 0.0 −0.01	1047 m17 44.53 0.0 −0.01	1063 n17 44.53 0.0 −0.01
18	1016 k18 50.89 0.0 −0.01	1032 l18 50.89 0.0 −0.01	1048 m18 50.89 0.0 −0.01	1064 n18 50.89 0.0 −0.01
19	1017 k19 57.25 0.0 −0.01	1033 l19 57.25 0.0 −0.01	1049 m19 57.25 0.0 −0.01	1065 n19 57.25 0.0 −0.01
20	1018 k20 63.61 0.0 −0.01	1034 l20 63.61 0.0 −0.01	1050 m20 63.61 0.0 −0.01	1066 n20 63.61 0.0 −0.01
21	1019 k21 69.97 0.0 −0.01	1035 l21 69.97 0.0 −0.01	1051 m21 69.97 0.0 −0.01	1067 n21 69.97 0.0 −0.01
22	1020 k22 76.33 0.0 −0.01	1036 l22 76.33 0.0 −0.01	1052 m22 76.33 0.0 −0.01	1068 n22 76.33 0.0 −0.01
23	1021 k23 82.69 0.0 −0.01	1037 l23 82.69 0.0 −0.01	1053 m23 82.69 0.0 −0.01	1069 n23 82.69 0.0 −0.01
24	1022 k24 89.05 0.0 −0.01	1038 l24 89.05 0.0 −0.01	1054 m24 89.05 0.0 −0.01	1070 n24 89.05 0.0 −0.01
25	1023 k25 95.4 0.0 −0.01	1039 l25 95.4 0.0 −0.01	1055 m25 95.4 0.0 −0.01	1071 n25 95.4 0.0 −0.01
26	1072 k26 0.02 0.0 −0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 −10.59 99.49	1078 n26 48.44 −73.17 42.2
27	1073 k27 95.4 0.0 −0.01	1075 l27 56.87 −33.1 −47.4	1077 m27 16.48 45.83 −56.2	1079 n27 45.36 81.83 −9.28

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 21/4, OLS00

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.02 0.0 −0.01	0009 B01 6.06 −9.14 5.27	0018 C01 12.12 −18.29 10.54	0027 D01 18.17 −27.43 15.82	0036 E01 24.23 −36.58 21.1	0045 F01 30.28 −45.73 26.37	0054 G01 36.34 −54.88 31.65	0063 H01 42.39 −64.03 36.92	0072 I01 48.44 −73.17 42.2	0081 J01 5.65 8.91 9.43
02	0001 A02 2.07 5.72 −7.02	0010 B02 7.12 −4.13 −5.92	0019 C02 13.17 −13.28 −0.64	0028 D02 19.23 −22.43 4.63	0037 E02 25.28 −31.58 9.9	0046 F02 31.34 −40.73 15.18	0055 G02 37.39 −49.87 20.45	0064 H02 43.45 −59.02 25.73	0073 I02 49.5 −68.16 31.0	0082 J02 5.68 10.22 −1.16
03	0002 A03 4.13 11.45 −14.04	0011 B03 9.18 1.59 −12.94	0020 C03 14.23 −8.27 −11.84	0029 D03 20.28 −17.42 −6.57	0038 E03 26.34 −26.57 −1.29	0047 F03 32.39 −35.72 3.98	0056 G03 38.45 −44.86 9.25	0065 H03 44.5 −54.01 14.53	0074 I03 50.55 −63.15 19.8	0083 J03 7.74 15.95 −8.18
04	0003 A04 6.19 17.18 −21.07	0012 B04 11.24 7.32 −19.97	0021 C04 16.29 −2.54 −18.87	0030 D04 21.34 −12.41 −17.77	0039 E04 27.39 −21.56 −12.49	0048 F04 33.45 −30.71 −7.22	0057 G04 39.5 −39.85 −1.94	0066 H04 45.56 −49.0 3.33	0075 I04 51.61 −58.14 8.6	0084 J04 9.8 21.68 −15.21
05	0004 A05 8.25 22.91 −28.1	0013 B05 13.29 13.05 −27.0	0022 C05 18.34 3.18 −25.9	0031 D05 23.39 −6.68 −24.8	0040 E05 28.44 −16.55 −23.7	0049 F05 34.5 −25.7 −18.42	0058 G05 40.55 −34.84 −13.14	0067 H05 46.61 −43.99 −7.87	0076 I05 52.66 −53.13 −2.59	0085 J05 11.86 27.41 −22.24
06	0005 A06 10.31 28.64 −35.13	0014 B06 15.35 18.78 −34.03	0023 C06 20.4 8.91 −32.93	0032 D06 25.45 −0.95 −31.82	0041 E06 30.5 −10.82 −30.72	0050 F06 35.55 −20.69 −29.62	0059 G06 41.61 −29.83 −24.35	0068 H06 47.66 −38.98 −19.07	0077 I06 53.71 −48.12 −13.8	0086 J06 13.91 33.14 −29.27
07	0006 A07 12.37 34.37 −42.15	0015 B07 17.41 24.51 −41.05	0024 C07 22.46 14.64 −39.95	0033 D07 27.51 4.77 −38.85	0042 E07 32.56 −5.09 −37.75	0051 F07 37.61 −14.96 −36.65	0060 G07 42.66 −24.82 −35.55	0069 H07 48.72 −33.97 −30.27	0078 I07 54.77 −43.11 −25.0	0087 J07 15.97 38.87 −36.29
08	0007 A08 14.42 40.1 −49.18	0016 B08 19.47 30.24 −48.08	0025 C08 24.52 20.37 −46.98	0034 D08 29.57 10.5 −45.88	0043 E08 34.62 0.63 −44.78	0052 F08 39.67 −9.23 −43.68	0061 G08 44.72 −19.09 −42.58	0070 H08 49.77 −28.96 −41.47	0079 I08 55.82 −38.1 −36.2	0088 J08 18.03 44.6 −43.32
09	0008 A09 16.48 45.83 −56.2	0017 B09 21.53 35.96 −55.1	0026 C09 26.58 26.1 −54.0	0035 D09 31.63 16.23 −52.9	0044 E09 36.68 6.36 −51.8	0053 F09 41.73 −3.5 −50.7	0062 G09 46.78 −13.37 −49.6	0071 H09 51.83 −23.24 −48.5	0080 I09 56.87 −33.1 −47.4	0089 J09 20.09 50.32 −50.34
10	0243 A10 16.93 26.75 28.31	0252 B10 22.56 16.51 31.31	0261 C10 28.2 6.27 34.31	0270 D10 33.83 −3.97 37.3	0279 E10 39.89 −13.12 42.58	0288 F10 45.94 −22.27 47.85	0297 G10 52.0 −31.42 53.13	0306 H10 58.05 −40.56 58.41	0315 I10 64.1 −49.71 63.68	0324 J10 22.58 35.67 37.76
11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 −2.65 24.87	0280 E11 40.54 −11.79 30.15	0289 F11 46.59 −20.94 35.43	0298 G11 52.65 −30.09 40.7	0307 H11 58.7 −39.24 45.98	0316 I11 64.75 −48.38 51.25	0325 J11 22.6 36.98 27.16
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 −1.32 12.43	0281 E12 41.19 −10.47 17.71	0290 F12 47.24 −19.62 22.99	0299 G12 53.3 −28.77 28.26	0308 H12 59.35 −37.92 33.54	0317 I12 65.4 −47.06 38.81	0326 J12 22.63 38.29 16.56
13	0246 A13 17.02 30.68 −3.48	0255 B13 23.27 20.46 −2.32	0264 C13 29.52 10.23 −1.16	0273 D13 35.79 0.0 −0.01	0282 E13 41.84 −9.14 5.27	0291 F13 47.89 −18.29 10.55	0300 G13 53.95 −27.44 15.82	0309 H13 60.0 −36.59 21.1	0318 I13 66.05 −45.73 26.37	0327 J13 22.66 39.6 5.95
14	0247 A14 19.08 36.41 −10.51	0256 B14 25.33 26.19 −9.35	0265 C14 31.58 15.96 −8.18	0274 D14 37.84 5.73 −7.02	0283 E14 42.89 −4.13 −5.92	0292 F14 48.94 −13.28 −0.65	0301 G14 55.0 −22.43 4.62	0310 H14 61.05 −31.58 9.9	0319 I14 67.1 −40.72 15.17	0328 J14 22.69 40.91 −4.64
15	0248 A15 21.13 42.14 −17.53	0257 B15 27.39 31.92 −16.37	0266 C15 33.64 21.69 −15.21	0275 D15 39.9 11.46 −14.05	0284 E15 44.95 1.59 −12.95	0293 F15 50.0 −8.27 −11.85	0302 G15 56.05 −17.42 −6.57	0311 H15 62.11 −26.57 −1.3	0320 I15 68.16 −35.71 3.97	0329 J15 24.74 46.64 −11.67
16	0249 A16 23.19 47.87 −24.56	0258 B16 29.44 37.65 −23.4	0267 C16 35.7 27.42 −22.24	0276 D16 41.96 17.19 −21.08	0285 E16 47.01 7.32 −19.98	0294 F16 52.06 −2.54 −18.88	0303 G16 57.11 −12.41 −17.77	0312 H16 63.16 −21.56 −12.5	0321 I16 69.21 −30.7 −7.23	0330 J16 26.8 52.37 −18.69
17	0250 A17 25.25 53.6 −31.59	0259 B17 31.5 43.38 −30.43	0268 C17 37.76 33.15 −29.27	0277 D17 44.02 22.92 −28.11	0286 E17 49.07 13.05 −27.0	0295 F17 54.12 3.18 −25.9	0304 G17 59.17 −6.68 −24.8	0313 H17 64.22 −16.55 −23.7	0322 I17 70.27 −25.69 −18.43	0331 J17 28.86 58.1 −25.72
18	0251 A18 27.31 59.33 −38.61	0260 B18 33.56 49.1 −37.45	0269 C18 39.82 38.87 −36.29	0278 D18 46.07 28.64 −35.13	0287 E18 51.12 18.77 −34.03	0296 F18 56.17 8.9 −32.92	0305 G18 61.22 −0.96 −31.82	0314 H18 66.27 −10.82 −30.72	0323 I18 71.32 −20.69 −29.62	0332 J18 30.92 63.83 −32.74
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 −7.94 74.62	0549 H19 73.72 −17.09 79.89	0558 I19 79.77 −26.23 85.17	0567 J19 39.5 62.44 66.08
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 −6.62 62.19	0550 H20 74.37 −15.77 67.47	0559 I20 80.42 −24.91 72.74	0568 J20 39.53 63.75 55.49
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 −5.3 49.75	0551 H21 75.02 −14.44 55.03	0560 I21 81.07 −23.59 60.3	0569 J21 39.55 65.06 44.89
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 −3.97 37.31	0552 H22 75.66 −13.12 42.59	0561 I22 81.71 −22.26 47.86	0570 J22 39.58 66.37 34.28
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 −2.65 24.87	0553 H23 76.31 −11.79 30.15	0562 I23 82.36 −20.94 35.42	0571 J23 39.61 67.68 23.68
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 −1.32 12.43	0554 H24 76.96 −10.47 17.71	0563 I24 83.01 −19.61 22.98	0572 J24 39.64 68.99 13.07
25	0492 A25 34.02 61.37 −6.96	0501 B25 40.27 51.15 −5.8	0510 C25 46.53 40.92 −4.64	0519 D25 52.79 30.69 −3.48	0528 E25 59.04 20.46 −2.32	0537 F25 65.3 10.23 −1.16	0546 G25 71.56 0.0 −0.01	0555 H25 77.61 −9.14 5.27	0564 I25 83.66 −18.29 10.54	0573 J25 39.66 70.3 2.47
26	0493 A26 36.08 67.1 −13.99	0502 B26 42.33 56.88 −12.83	0511 C26 48.59 46.65 −11.67	0520 D26 54.85 36.42 −10.51	0529 E26 61.1 26.19 −9.35	0538 F26 67.36 15.96 −8.18	0547 G26 73.61 5.73 −7.02	0556 H26 78.66 −4.13 −5.92	0565 I26 84.71 −13.28 −0.65	0574 J26 39.69 71.61 −8.12
27	0494 A27 38.14 72.83 −21.01	0503 B27 44.39 62.61 −19.85	0512 C27 50.65 52.38 −18.69	0521 D27 56.9 42.14 −17.53	0530 E27 63.16 31.91 −16.37	0539 F27 69.41 21.68 −15.21	0548 G27 75.67 11.45 −14.04	0557 H27 80.72 1.58 −12.94	0566 I27 85.77 −8.27 −11.84	0575 J27 41.75 77.33 −15.14

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.28 −1.32 12.42	0099 L01 17.34 −10.47 17.7	0108 M01 23.39 −19.62 22.98	0117 N01 29.45 −28.77 28.25	0126 O01 35.5 −37.91 33.53	0135 P01 41.56 −47.06 38.81	0144 Q01 47.61 −56.21 44.08	0153 R01 53.66 −65.35 49.35	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87
02	0091 K02 11.94 0.0 −0.01	0100 L02 17.99 −9.14 5.27	0109 M02 24.04 −18.29 10.55	0118 N02 30.1 −27.44 15.82	0127 O02 36.15 −36.59 21.1	0136 P02 42.21 −45.74 26.38	0145 Q02 48.26 −54.89 31.65	0154 R02 54.31 −64.03 36.92	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44
03	0092 K03 13.99 5.73 −7.02	0101 L03 19.04 −4.13 −5.92	0110 M03 25.09 −13.28 −0.65	0119 N03 31.15 −22.43 4.62	0128 O03 37.2 −31.58 9.9	0137 P03 43.26 −40.73 15.17	0146 Q03 49.31 −49.88 20.45	0155 R03 55.36 −59.02 25.72	0164 S03 11.35 20.45 −2.32	0173 T03 17.6 10.23 −1.16
04	0093 K04 16.05 11.46 −14.05	0102 L04 21.1 1.59 −12.95	0111 M04 26.15 −8.27 −11.85	0120 N04 32.2 −17.42 −6.57	0129 O04 38.26 −26.57 −1.3	0138 P04 44.31 −35.72 3.97	0147 Q04 50.37 −44.87 9.25	0156 R04 56.42 −54.01 14.52	0165 S04 13.41 26.18 −9.34	0174 T04 19.66 15.96 −8.18
05	0094 K05 18.11 17.19 −21.08	0103 L05 23.16 7.32 −19.98	0112 M05 28.21 −2.54 −18.88	0121 N05 33.26 −12.41 −17.77	0130 O05 39.31 −21.56 −12.5	0139 P05 45.37 −30.71 −7.22	0148 Q05 51.42 −39.86 −1.94	0157 R05 57.47 −49.0 3.32	0166 S05 15.47 31.91 −16.37	0175 T05 21.72 21.69 −15.21
06	0095 K06 20.17 22.92 −28.11	0104 L06 25.22 13.05 −27.0	0113 M06 30.27 3.18 −25.9	0122 N06 35.32 −6.68 −24.8	0131 O06 40.37 −16.55 −23.7	0140 P06 46.42 −25.7 −18.42	0149 Q06 52.48 −34.85 −13.15	0158 R06 58.53 −43.99 −7.88	0167 S06 17.52 37.64 −23.4	0176 T06 23.78 27.42 −22.24
07	0096 K07 22.22 28.65 −35.13	0105 L07 27.27 18.78 −34.03	0114 M07 32.32 8.91 −32.93	0123 N07 37.37 −0.95 −31.83	0132 O07 42.42 −10.82 −30.73	0141 P07 47.47 −20.69 −29.63	0150 Q07 53.53 −29.84 −24.35	0159 R07 59.58 −38.98 −19.08	0168 S07 19.58 43.37 −30.43	0177 T07 25.83 33.15 −29.27
08	0097 K08 24.28 34.38 −42.16	0106 L08 29.33 24.51 −41.06	0115 M08 34.38 14.64 −39.96	0124 N08 39.43 4.77 −38.86	0133 O08 44.48 −5.09 −37.76	0142 P08 49.53 −14.96 −36.65	0151 Q08 54.58 −24.83 −35.55	0160 R08 60.63 −33.97 −30.28	0169 S08 21.64 49.1 −37.45	0178 T08 27.89 38.88 −36.29
09	0098 K09 26.34 40.1 −49.18	0107 L09 31.39 30.23 −48.08	0116 M09 36.44 20.36 −46.98	0125 N09 41.49 10.49 −45.88	0134 O09 46.54 0.63 −44.78	0143 P09 51.59 −9.23 −43.68	0152 Q09 56.64 −19.1 −42.57	0161 R09 61.69 −28.96 −41.47	0170 S09 23.7 54.82 −44.48	0179 T09 29.95 44.6 −43.32
10	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 −5.29 49.74	0369 O10 51.17 −14.44 55.02	0378 P10 57.22 −23.59 60.29	0387 Q10 63.28 −32.74 65.57	0396 R10 69.33 −41.88 70.84	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19
11	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 −3.97 37.31	0370 O11 51.81 −13.12 42.59	0379 P11 57.87 −22.27 47.86	0388 Q11 63.92 −31.42 53.14	0397 R11 69.97 −40.56 58.41	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77
12	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 −2.65 24.87	0371 O12 52.46 −11.79 30.15	0380 P12 58.52 −20.94 35.43	0389 Q12 64.57 −30.09 40.7	0398 R12 70.62 −39.23 45.97	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16
13	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 −1.32 12.43	0372 O13 53.11 −10.47 17.71	0381 P13 59.17 −19.62 22.99	0390 Q13 65.22 −28.77 28.26	0399 R13 71.27 −37.91 33.53	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56
14	0337 K14 28.94 30.69 −3.48	0346 L14 35.19 20.46 −2.32	0355 M14 41.45 10.23 −1.16	0364 N14 47.71 0.0 −0.01	0373 O14 53.76 −9.14 5.27	0382 P14 59.82 −18.29 10.55	0391 Q14 65.87 −27.44 15.82	0400 R14 71.92 −36.58 21.1	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95
15	0338 K15 31.0 36.42 −10.51	0347 L15 37.25 26.19 −9.35	0356 M15 43.51 15.96 −8.18	0365 N15 49.76 5.73 −7.02	0374 O15 54.81 −4.13 −5.92	0383 P15 60.87 −13.28 −0.65	0392 Q15 66.92 −22.43 4.62	0401 R15 72.97 −31.57 9.89	0410 S15 28.35 51.14 −5.8	0419 T15 34.61 40.92 −4.64
16	0339 K16 33.05 42.15 −17.53	0348 L16 39.31 31.92 −16.37	0357 M16 45.57 21.69 −15.21	0366 N16 51.82 11.46 −14.05	0375 O16 56.87 1.59 −12.95	0384 P16 61.92 −8.27 −11.85	0393 Q16 67.98 −17.42 −6.57	0402 R16 74.03 −26.56 −1.3	0411 S16 30.41 56.87 −12.83	0420 T16 36.66 46.65 −11.67
17	0340 K17 35.11 47.88 −24.56	0349 L17 41.37 37.65 −23.4	0358 M17 47.63 27.42 −22.24	0367 N17 53.88 17.19 −21.08	0376 O17 58.93 7.32 −19.98	0385 P17 63.98 −2.54 −18.88	0394 Q17 69.03 −12.41 −17.77	0403 R17 75.08 −21.55 −12.5	0412 S17 32.47 62.6 −19.86	0421 T17 38.72 52.38 −18.7
18	0341 K18 37.17 53.6 −31.58	0350 L18 43.43 43.37 −30.42	0359 M18 49.68 33.14 −29.26	0368 N18 55.94 22.91 −28.1	0377 O18 60.99 13.04 −27.0	0386 P18 66.04 3.17 −25.9	0395 Q18 71.09 −6.69 −24.8	0404 R18 76.13 −16.55 −23.7	0413 S18 34.53 68.33 −26.88	0422 T18 40.78 58.11 −25.72
19	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 −9.27 87.06	0639 R19 84.99 −18.41 92.33	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51
20	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 −7.95 74.63	0640 R20 85.64 −17.09 79.9	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08
21	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 −6.62 62.19	0641 R21 86.29 −15.76 67.46	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48
22	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 −5.3 49.75	0642 R22 86.94 −14.44 55.02	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88
23	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 −3.97 37.31	0643 R23 87.58 −13.11 42.58	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27
24	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 −2.65 24.87	0644 R24 88.23 −11.79 30.14	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67
25	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 −1.32 12.43	0645 R25 88.88 −10.46 17.71	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07
26	0583 K26 45.94 61.38 −6.96	0592 L26 52.2 51.15 −5.8	0601 M26 58.46 40.92 −4.64	0610 N26 64.71 30.69 −3.48	0619 O26 70.97 20.46 −2.32	0628 P26 77.22 10.23 −1.16	0637 Q26 83.49 0.0 −0.01	0646 R26 89.53 −9.14 5.27	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46
27	0584 K27 48.0 67.11 −13.98	0593 L27 54.26 56.88 −12.82	0602 M27 60.51 46.65 −11.66	0611 N27 66.77 36.41 −10.5	0620 O27 73.02 26.18 −9.34	0629 P27 79.28 15.95 −8.18	0638 Q27 85.54 5.72 −7.02	0647 R27 90.58 −4.13 −5.92	0656 S27 45.36 81.83 −9.28	0665 T27 51.61 71.61 −8.12

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 22.56 −2.64 24.86	0189 V01 28.61 −11.79 30.14	0198 W01 34.67 −20.94 35.42	0207 X01 40.72 −30.09 40.69	0216 Y01 46.78 −39.24 45.97	0225 Z01 52.83 −48.39 51.24	0234 a01 58.88 −57.53 56.52	0729 b01 95.4 0.0 −0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87
02	0181 U02 23.21 −1.32 12.43	0190 V02 29.26 −10.47 17.71	0199 W02 35.32 −19.62 22.99	0208 X02 41.37 −28.77 28.26	0217 Y02 47.43 −37.92 33.54	0226 Z02 53.48 −47.06 38.82	0235 a02 59.53 −56.21 44.09	0730 b02 90.58 −4.13 −5.92	0739 c02 83.49 0.0 −0.01	0748 d02 77.2 8.92 9.44
03	0182 U03 23.86 0.0 −0.01	0191 V03 29.91 −9.14 5.27	0200 W03 35.96 −18.29 10.55	0209 X03 42.02 −27.44 15.82	0218 Y03 48.08 −36.59 21.1	0227 Z03 54.13 −45.74 26.38	0236 a03 60.18 −54.88 31.65	0731 b03 85.77 −8.27 −11.84	0740 c03 78.66 −4.13 −5.92	0749 d03 71.56 0.0 −0.01
04	0183 U04 25.91 5.73 −7.02	0192 V04 30.96 −4.13 −5.92	0201 W04 37.02 −13.28 −0.65	0210 X04 43.07 −22.43 4.62	0219 Y04 49.13 −31.58 9.9	0228 Z04 55.18 −40.73 15.17	0237 a04 61.23 −49.87 20.45	0732 b04 80.95 −12.41 −17.77	0741 c04 73.85 −8.27 −11.85	0750 d04 66.74 −4.13 −5.92
05	0184 U05 27.97 11.46 −14.05	0193 V05 33.02 1.59 −12.95	0202 W05 38.07 −8.27 −11.85	0211 X05 44.13 −17.42 −6.57	0220 Y05 50.18 −26.57 −1.3	0229 Z05 56.24 −35.72 3.97	0238 a05 62.29 −44.86 9.24	0733 b05 76.13 −16.55 −23.7	0742 c05 69.03 −12.41 −17.77	0751 d05 61.92 −8.27 −11.85
06	0185 U06 30.03 17.19 −21.08	0194 V06 35.08 7.32 −19.98	0203 W06 40.13 −2.54 −18.88	0212 X06 45.18 −12.41 −17.77	0221 Y06 51.24 −21.56 −12.5	0230 Z06 57.29 −30.71 −7.22	0239 a06 63.34 −39.85 −1.95	0734 b06 71.32 −20.69 −29.62	0743 c06 64.22 −16.55 −23.7	0752 d06 57.11 −12.41 −17.77
07	0186 U07 32.09 22.92 −28.11	0195 V07 37.14 13.05 −27.0	0204 W07 42.19 3.18 −25.9	0213 X07 47.24 −6.68 −24.8	0222 Y07 52.29 −16.55 −23.7	0231 Z07 58.35 −25.7 −18.42	0240 a07 64.4 −34.84 −13.15	0735 b07 66.5 −24.82 −35.55	0744 c07 59.4 −20.69 −29.63	0753 d07 52.29 −16.55 −23.7
08	0187 U08 34.15 28.65 −35.13	0196 V08 39.2 18.78 −34.03	0205 W08 44.25 8.91 −32.93	0214 X08 49.3 −0.95 −31.83	0223 Y08 54.35 −10.82 −30.73	0232 Z08 59.4 −20.69 −29.63	0241 a08 65.45 −29.83 −24.35	0736 b08 61.69 −28.96 −41.47	0745 c08 54.58 −24.83 −35.55	0754 d08 47.47 −20.69 −29.63
09	0188 U09 36.21 34.37 −42.15	0197 V09 41.26 24.5 −41.05	0206 W09 46.31 14.63 −39.95	0215 X09 51.36 4.76 −38.85	0224 Y09 56.41 −5.09 −37.75	0233 Z09 61.46 −14.96 −36.65	0242 a09 66.5 −24.82 −35.55	0737 b09 56.87 −33.1 −47.4	0746 c09 49.77 −28.96 −41.47	0755 d09 42.66 −24.82 −35.55
10	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 −6.62 62.18	0459 Y10 62.44 −15.77 67.46	0468 Z10 68.5 −24.92 72.73	0477 a10 74.55 −34.06 78.0	0810 b10 95.4 0.0 −0.01	0819 c10 94.75 −1.32 12.42	0828 d10 94.1 −2.64 24.86
11	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 −5.3 49.75	0460 Y11 63.09 −14.44 55.03	0469 Z11 69.15 −23.59 60.3	0478 a11 75.2 −32.73 65.57	0811 b11 85.54 5.72 −7.02	0820 c11 83.49 0.0 −0.01	0829 d11 82.83 −1.32 12.43
12	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 −3.97 37.31	0461 Y12 63.74 −13.12 42.59	0470 Z12 69.79 −22.27 47.86	0479 a12 75.84 −31.41 53.14	0812 b12 75.67 11.45 −14.04	0821 c12 73.61 5.73 −7.02	0830 d12 71.56 0.0 −0.01
13	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 −2.65 24.87	0462 Y13 64.39 −11.79 30.15	0471 Z13 70.44 −20.94 35.43	0480 a13 76.49 −30.08 40.7	0813 b13 65.8 17.18 −21.07	0822 c13 63.75 11.46 −14.05	0831 d13 61.69 5.73 −7.02
14	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 −1.32 12.43	0463 Y14 65.04 −10.47 17.71	0472 Z14 71.09 −19.62 22.99	0481 a14 77.14 −28.76 28.26	0814 b14 55.94 22.91 −28.1	0823 c14 53.88 17.19 −21.08	0832 d14 51.82 11.46 −14.05
15	0428 U15 40.86 30.69 −3.48	0437 V15 47.12 20.46 −2.32	0446 W15 53.37 10.23 −1.16	0455 X15 59.64 0.0 −0.01	0464 Y15 65.69 −9.14 5.27	0473 Z15 71.74 −18.29 10.55	0482 a15 77.79 −27.43 15.82	0815 b15 46.07 28.64 −35.13	0824 c15 44.02 22.92 −28.11	0833 d15 41.96 17.19 −21.08
16	0429 U16 42.92 36.42 −10.51	0438 V16 49.18 26.19 −9.35	0447 W16 55.43 15.96 −8.18	0456 X16 61.69 5.73 −7.02	0465 Y16 66.74 −4.13 −5.92	0474 Z16 72.79 −13.28 −0.65	0483 a16 78.84 −22.42 4.62	0816 b16 36.21 34.37 −42.15	0825 c16 34.15 28.65 −35.13	0834 d16 32.09 22.92 −28.11
17	0430 U17 44.98 42.15 −17.53	0439 V17 51.24 31.92 −16.37	0448 W17 57.49 21.69 −15.21	0457 X17 63.75 11.46 −14.05	0466 Y17 68.8 1.59 −12.95	0475 Z17 73.85 −8.27 −11.85	0484 a17 79.9 −17.41 −6.58	0817 b17 26.34 40.1 −49.18	0826 c17 24.28 34.38 −42.16	0835 d17 22.22 28.65 −35.13
18	0431 U18 47.04 47.87 −24.56	0440 V18 53.29 37.64 −23.39	0449 W18 59.55 27.41 −22.23	0458 X18 65.8 17.18 −21.07	0467 Y18 70.85 7.31 −19.97	0476 Z18 75.9 −2.55 −18.87	0485 a18 80.95 −12.41 −17.77	0818 b18 16.48 45.83 −56.2	0827 c18 14.42 40.1 −49.18	0836 d18 12.37 34.37 −42.15
19	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 −0.35 96.49	0720 a19 90.21 −10.59 99.49	0891 b19 95.4 0.0 −0.01	0900 c19 89.53 −9.14 5.27	0909 d19 83.66 −18.29 10.54
20	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 −9.27 87.06	0892 b20 89.14 10.22 −1.16	0901 c20 83.49 0.0 −0.01	0910 d20 77.61 −9.14 5.27
21	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 −7.94 74.62	0893 b21 82.89 20.45 −2.32	0902 c21 77.22 10.23 −1.16	0911 d21 71.56 0.0 −0.01
22	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 −6.62 62.18	0894 b22 76.63 30.68 −3.48	0903 c22 70.97 20.46 −2.32	0912 d22 65.3 10.23 −1.16
23	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 −5.29 49.74	0895 b23 70.38 40.91 −4.64	0904 c23 64.71 30.69 −3.48	0913 d23 59.04 20.46 −2.32
24	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 −3.97 37.3	0896 b24 64.12 51.14 −5.8	0905 c24 58.46 40.92 −4.64	0914 d24 52.79 30.69 −3.48
25	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 −2.64 24.86	0897 b25 57.86 61.37 −6.96	0906 c25 52.2 51.15 −5.8	0915 d25 46.53 40.92 −4.64
26	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 −1.32 12.42	0898 b26 51.61 71.61 −8.12	0907 c26 45.94 61.38 −6.96	0916 d26 40.27 51.15 −5.8
27	0674 U27 57.86 61.37 −6.96	0683 V27 64.12 51.14 −5.8	0692 W27 70.38 40.91 −4.64	0701 X27 76.63 30.68 −3.48	0710 Y27 82.89 20.45 −2.32	0719 Z27 89.14 10.22 −1.16	0728 a27 95.4 0.0 −0.01	0899 b27 45.36 81.83 −9.28	0908 c27 39.69 71.61 −8.12	0917 d27 34.02 61.37 −6.96

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52	0972 k01 0.02 0.0 −0.01	0981 l01 0.02 0.0 −0.01	0990 m01 0.02 0.0 −0.01	0999 n01 0.02 0.0 −0.01
02	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64	0974 k03 23.86 0.0 −0.01	0983 l03 23.86 0.0 −0.01	0992 m03 23.86 0.0 −0.01	1001 n03 23.86 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 54.81 −4.13 −5.92	0769 f05 47.71 0.0 −0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76	0976 k05 47.71 0.0 −0.01	0985 l05 47.71 0.0 −0.01	0994 m05 47.71 0.0 −0.01	1003 n05 47.71 0.0 −0.01
06	0761 e06 50.0 −8.27 −11.85	0770 f06 42.89 −4.13 −5.92	0779 g06 35.79 0.0 −0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 45.18 −12.41 −17.77	0771 f07 38.07 −8.27 −11.85	0780 g07 30.96 −4.13 −5.92	0789 h07 23.86 0.0 −0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87	0978 k07 71.56 0.0 −0.01	0987 l07 71.56 0.0 −0.01	0996 m07 71.56 0.0 −0.01	1005 n07 71.56 0.0 −0.01
08	0763 e08 40.37 −16.55 −23.7	0772 f08 33.26 −12.41 −17.77	0781 g08 26.15 −8.27 −11.85	0790 h08 19.04 −4.13 −5.92	0799 i08 11.94 0.0 −0.01	0808 j08 5.65 8.91 9.43	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 35.55 −20.69 −29.62	0773 f09 28.44 −16.55 −23.7	0782 g09 21.34 −12.41 −17.77	0791 h09 14.23 −8.27 −11.84	0800 i09 7.12 −4.13 −5.92	0809 j09 0.02 0.0 −0.01	0980 k09 95.4 0.0 −0.01	0989 l09 95.4 0.0 −0.01	0998 m09 95.4 0.0 −0.01	1007 n09 95.4 0.0 −0.01
10	0837 e10 93.45 −3.97 37.3	0846 f10 92.8 −5.29 49.74	0855 g10 92.15 −6.62 62.18	0864 h10 91.5 −7.94 74.62	0873 i10 90.85 −9.27 87.06	0882 j10 90.21 −10.59 99.49	1008 k10 0.02 0.0 −0.01	1024 l10 0.02 0.0 −0.01	1040 m10 0.02 0.0 −0.01	1056 n10 0.02 0.0 −0.01
11	0838 e11 82.18 −2.65 24.87	0847 f11 81.53 −3.97 37.31	0856 g11 80.89 −5.3 49.75	0865 h11 80.24 −6.62 62.19	0874 i11 79.59 −7.95 74.63	0883 j11 78.94 −9.27 87.06	1009 k11 6.37 0.0 −0.01	1025 l11 6.37 0.0 −0.01	1041 m11 6.37 0.0 −0.01	1057 n11 6.37 0.0 −0.01
12	0839 e12 70.91 −1.32 12.43	0848 f12 70.26 −2.65 24.87	0857 g12 69.61 −3.97 37.31	0866 h12 68.96 −5.3 49.75	0875 i12 68.31 −6.62 62.19	0884 j12 67.66 −7.94 74.62	1010 k12 12.73 0.0 −0.01	1026 l12 12.73 0.0 −0.01	1042 m12 12.73 0.0 −0.01	1058 n12 12.73 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 58.98 −1.32 12.43	0858 g13 58.33 −2.65 24.87	0867 h13 57.68 −3.97 37.31	0876 i13 57.03 −5.3 49.75	0885 j13 56.39 −6.62 62.18	1011 k13 19.09 0.0 −0.01	1027 l13 19.09 0.0 −0.01	1043 m13 19.09 0.0 −0.01	1059 n13 19.09 0.0 −0.01
14	0841 e14 49.76 5.73 −7.02	0850 f14 47.71 0.0 −0.01	0859 g14 47.06 −1.32 12.43	0868 h14 46.41 −2.65 24.87	0877 i14 45.76 −3.97 37.31	0886 j14 45.11 −5.29 49.74	1012 k14 25.45 0.0 −0.01	1028 l14 25.45 0.0 −0.01	1044 m14 25.45 0.0 −0.01	1060 n14 25.45 0.0 −0.01
15	0842 e15 39.9 11.46 −14.05	0851 f15 37.84 5.73 −7.02	0860 g15 35.79 0.0 −0.01	0869 h15 35.13 −1.32 12.43	0878 i15 34.48 −2.65 24.87	0887 j15 33.83 −3.97 37.3	1013 k15 31.81 0.0 −0.01	1029 l15 31.81 0.0 −0.01	1045 m15 31.81 0.0 −0.01	1061 n15 31.81 0.0 −0.01
16	0843 e16 30.03 17.19 −21.08	0852 f16 27.97 11.46 −14.05	0861 g16 25.91 5.73 −7.02	0870 h16 23.86 0.0 −0.01	0879 i16 23.21 −1.32 12.43	0888 j16 22.56 −2.64 24.86	1014 k16 38.17 0.0 −0.01	1030 l16 38.17 0.0 −0.01	1046 m16 38.17 0.0 −0.01	1062 n16 38.17 0.0 −0.01
17	0844 e17 20.17 22.92 −28.11	0853 f17 18.11 17.19 −21.08	0862 g17 16.05 11.46 −14.05	0871 h17 13.99 5.73 −7.02	0880 i17 11.94 0.0 −0.01	0889 j17 11.28 −1.32 12.42	1015 k17 44.53 0.0 −0.01	1031 l17 44.53 0.0 −0.01	1047 m17 44.53 0.0 −0.01	1063 n17 44.53 0.0 −0.01
18	0845 e18 10.31 28.64 −35.13	0854 f18 8.25 22.91 −28.1	0863 g18 6.19 17.18 −21.07	0872 h18 4.13 11.45 −14.04	0881 i18 2.07 5.72 −7.02	0890 j18 0.02 0.0 −0.01	1016 k18 50.89 0.0 −0.01	1032 l18 50.89 0.0 −0.01	1048 m18 50.89 0.0 −0.01	1064 n18 50.89 0.0 −0.01
19	0918 e19 77.79 −27.43 15.82	0927 f19 71.92 −36.58 21.1	0936 g19 66.05 −45.73 26.37	0945 h19 60.18 −54.88 31.65	0954 i19 54.31 −64.03 36.92	0963 j19 48.44 −73.17 42.2	1017 k19 57.25 0.0 −0.01	1033 l19 57.25 0.0 −0.01	1049 m19 57.25 0.0 −0.01	1065 n19 57.25 0.0 −0.01
20	0919 e20 71.74 −18.29 10.55	0928 f20 65.87 −27.44 15.82	0937 g20 60.0 −36.59 21.1	0946 h20 54.13 −45.74 26.38	0955 i20 48.26 −54.89 31.65	0964 j20 42.39 −64.03 36.92	1018 k20 63.61 0.0 −0.01	1034 l20 63.61 0.0 −0.01	1050 m20 63.61 0.0 −0.01	1066 n20 63.61 0.0 −0.01
21	0920 e21 65.69 −9.14 5.27	0929 f21 59.82 −18.29 10.55	0938 g21 53.95 −27.44 15.82	0947 h21 48.08 −36.59 21.1	0956 i21 42.21 −45.74 26.38	0965 j21 36.34 −54.88 31.65	1019 k21 69.97 0.0 −0.01	1035 l21 69.97 0.0 −0.01	1051 m21 69.97 0.0 −0.01	1067 n21 69.97 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 53.76 −9.14 5.27	0939 g22 47.89 −18.29 10.55	0948 h22 42.02 −27.44 15.82	0957 i22 36.15 −36.59 21.1	0966 j22 30.28 −45.73 26.37	1020 k22 76.33 0.0 −0.01	1036 l22 76.33 0.0 −0.01	1052 m22 76.33 0.0 −0.01	1068 n22 76.33 0.0 −0.01
23	0922 e23 53.37 10.23 −1.16	0931 f23 47.71 0.0 −0.01	0940 g23 41.84 −9.14 5.27	0949 h23 35.96 −18.29 10.55	0958 i23 30.1 −27.44 15.82	0967 j23 24.23 −36.58 21.1	1021 k23 82.69 0.0 −0.01	1037 l23 82.69 0.0 −0.01	1053 m23 82.69 0.0 −0.01	1069 n23 82.69 0.0 −0.01
24	0923 e24 47.12 20.46 −2.32	0932 f24 41.45 10.23 −1.16	0941 g24 35.79 0.0 −0.01	0950 h24 29.91 −9.14 5.27	0959 i24 24.04 −18.29 10.55	0968 j24 18.17 −27.43 15.82	1022 k24 89.05 0.0 −0.01	1038 l24 89.05 0.0 −0.01	1054 m24 89.05 0.0 −0.01	1070 n24 89.05 0.0 −0.01
25	0924 e25 40.86 30.69 −3.48	0933 f25 35.19 20.46 −2.32	0942 g25 29.52 10.23 −1.16	0951 h25 23.86 0.0 −0.01	0960 i25 17.99 −9.14 5.27	0969 j25 12.12 −18.29 10.54	1023 k25 95.4 0.0 −0.01	1039 l25 95.4 0.0 −0.01	1055 m25 95.4 0.0 −0.01	1071 n25 95.4 0.0 −0.01
26	0925 e26 34.61 40.92 −4.64	0934 f26 28.94 30.69 −3.48	0943 g26 23.27 20.46 −2.32	0952 h26 17.6 10.23 −1.16	0961 i26 11.94 0.0 −0.01	0970 j26 6.06 −9.14 5.27	1072 k26 0.02 0.0 −0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 −10.59 99.49	1078 n26 48.44 −73.17 42.2
27	0926 e27 28.35 51.14 −5.8	0935 f27 22.69 40.91 −4.64	0944 g27 17.02 30.68 −3.48	0953 h27 11.35 20.45 −2.32	0962 i27 5.68 10.22 −1.16	0971 j27 0.02 0.0 −0.01	1073 k27 95.4 0.0 −0.01	1075 l27 56.87 −33.1 −47.4	1077 m27 16.48 45.83 −56.2	1079 n27 45.36 81.83 −9.28

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 22/4, OLS06

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application for evaluation and measurement of printer or monitor systems

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

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems BAM material: code=rha4ta

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.02 0.0 −0.01	0009 B01 6.06 −9.14 5.27	0018 C01 12.12 −18.29 10.54	0027 D01 18.17 −27.43 15.82	0036 E01 24.23 −36.58 21.1	0045 F01 30.28 −45.73 26.37	0054 G01 36.34 −54.88 31.65	0063 H01 42.39 −64.03 36.92	0072 I01 48.44 −73.17 42.2	0081 J01 5.65 8.91 9.43
02	0001 A02 2.07 5.72 −7.02	0010 B02 7.12 −4.13 −5.92	0019 C02 13.17 −13.28 −0.64	0028 D02 19.23 −22.43 4.63	0037 E02 25.28 −31.58 9.9	0046 F02 31.34 −40.73 15.18	0055 G02 37.39 −49.87 20.45	0064 H02 43.45 −59.02 25.73	0073 I02 49.5 −68.16 31.0	0082 J02 5.68 10.22 −1.16
03	0002 A03 4.13 11.45 −14.04	0011 B03 9.18 1.59 −12.94	0020 C03 14.23 −8.27 −11.84	0029 D03 20.28 −17.42 −6.57	0038 E03 26.34 −26.57 −1.29	0047 F03 32.39 −35.72 3.98	0056 G03 38.45 −44.86 9.25	0065 H03 44.5 −54.01 14.53	0074 I03 50.55 −63.15 19.8	0083 J03 7.74 15.95 −8.18
04	0003 A04 6.19 17.18 −21.07	0012 B04 11.24 7.32 −19.97	0021 C04 16.29 −2.54 −18.87	0030 D04 21.34 −12.41 −17.77	0039 E04 27.39 −21.56 −12.49	0048 F04 33.45 −30.71 −7.22	0057 G04 39.5 −39.85 −1.94	0066 H04 45.56 −49.0 3.33	0075 I04 51.61 −58.14 8.6	0084 J04 9.8 21.68 −15.21
05	0004 A05 8.25 22.91 −28.1	0013 B05 13.29 13.05 −27.0	0022 C05 18.34 3.18 −25.9	0031 D05 23.39 −6.68 −24.8	0040 E05 28.44 −16.55 −23.7	0049 F05 34.5 −25.7 −18.42	0058 G05 40.55 −34.84 −13.14	0067 H05 46.61 −43.99 −7.87	0076 I05 52.66 −53.13 −2.59	0085 J05 11.86 27.41 −22.24
06	0005 A06 10.31 28.64 −35.13	0014 B06 15.35 18.78 −34.03	0023 C06 20.4 8.91 −32.93	0032 D06 25.45 −0.95 −31.82	0041 E06 30.5 −10.82 −30.72	0050 F06 35.55 −20.69 −29.62	0059 G06 41.61 −29.83 −24.35	0068 H06 47.66 −38.98 −19.07	0077 I06 53.71 −48.12 −13.8	0086 J06 13.91 33.14 −29.27
07	0006 A07 12.37 34.37 −42.15	0015 B07 17.41 24.51 −41.05	0024 C07 22.46 14.64 −39.95	0033 D07 27.51 4.77 −38.85	0042 E07 32.56 −5.09 −37.75	0051 F07 37.61 −14.96 −36.65	0060 G07 42.66 −24.82 −35.55	0069 H07 48.72 −33.97 −30.27	0078 I07 54.77 −43.11 −25.0	0087 J07 15.97 38.87 −36.29
08	0007 A08 14.42 40.1 −49.18	0016 B08 19.47 30.24 −48.08	0025 C08 24.52 20.37 −46.98	0034 D08 29.57 10.5 −45.88	0043 E08 34.62 0.63 −44.78	0052 F08 39.67 −9.23 −43.68	0061 G08 44.72 −19.09 −42.58	0070 H08 49.77 −28.96 −41.47	0079 I08 55.82 −38.1 −36.2	0088 J08 18.03 44.6 −43.32
09	0008 A09 16.48 45.83 −56.2	0017 B09 21.53 35.96 −55.1	0026 C09 26.58 26.1 −54.0	0035 D09 31.63 16.23 −52.9	0044 E09 36.68 6.36 −51.8	0053 F09 41.73 −3.5 −50.7	0062 G09 46.78 −13.37 −49.6	0071 H09 51.83 −23.24 −48.5	0080 I09 56.87 −33.1 −47.4	0089 J09 20.09 50.32 −50.34
10	0243 A10 16.93 26.75 28.31	0252 B10 22.56 16.51 31.31	0261 C10 28.2 6.27 34.31	0270 D10 33.83 −3.97 37.3	0279 E10 39.89 −13.12 42.58	0288 F10 45.94 −22.27 47.85	0297 G10 52.0 −31.42 53.13	0306 H10 58.05 −40.56 58.41	0315 I10 64.1 −49.71 63.68	0324 J10 22.58 35.67 37.76
11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 −2.65 24.87	0280 E11 40.54 −11.79 30.15	0289 F11 46.59 −20.94 35.43	0298 G11 52.65 −30.09 40.7	0307 H11 58.7 −39.24 45.98	0316 I11 64.75 −48.38 51.25	0325 J11 22.6 36.98 27.16
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 −1.32 12.43	0281 E12 41.19 −10.47 17.71	0290 F12 47.24 −19.62 22.99	0299 G12 53.3 −28.77 28.26	0308 H12 59.35 −37.92 33.54	0317 I12 65.4 −47.06 38.81	0326 J12 22.63 38.29 16.56
13	0246 A13 17.02 30.68 −3.48	0255 B13 23.27 20.46 −2.32	0264 C13 29.52 10.23 −1.16	0273 D13 35.79 0.0 −0.01	0282 E13 41.84 −9.14 5.27	0291 F13 47.89 −18.29 10.55	0300 G13 53.95 −27.44 15.82	0309 H13 60.0 −36.59 21.1	0318 I13 66.05 −45.73 26.37	0327 J13 22.66 39.6 5.95
14	0247 A14 19.08 36.41 −10.51	0256 B14 25.33 26.19 −9.35	0265 C14 31.58 15.96 −8.18	0274 D14 37.84 5.73 −7.02	0283 E14 42.89 −4.13 −5.92	0292 F14 48.94 −13.28 −0.65	0301 G14 55.0 −22.43 4.62	0310 H14 61.05 −31.58 9.9	0319 I14 67.1 −40.72 15.17	0328 J14 22.69 40.91 −4.64
15	0248 A15 21.13 42.14 −17.53	0257 B15 27.39 31.92 −16.37	0266 C15 33.64 21.69 −15.21	0275 D15 39.9 11.46 −14.05	0284 E15 44.95 1.59 −12.95	0293 F15 50.0 −8.27 −11.85	0302 G15 56.05 −17.42 −6.57	0311 H15 62.11 −26.57 −1.3	0320 I15 68.16 −35.71 3.97	0329 J15 24.74 46.64 −11.67
16	0249 A16 23.19 47.87 −24.56	0258 B16 29.44 37.65 −23.4	0267 C16 35.7 27.42 −22.24	0276 D16 41.96 17.19 −21.08	0285 E16 47.01 7.32 −19.98	0294 F16 52.06 −2.54 −18.88	0303 G16 57.11 −12.41 −17.77	0312 H16 63.16 −21.56 −12.5	0321 I16 69.21 −30.7 −7.23	0330 J16 26.8 52.37 −18.69
17	0250 A17 25.25 53.6 −31.59	0259 B17 31.5 43.38 −30.43	0268 C17 37.76 33.15 −29.27	0277 D17 44.02 22.92 −28.11	0286 E17 49.07 13.05 −27.0	0295 F17 54.12 3.18 −25.9	0304 G17 59.17 −6.68 −24.8	0313 H17 64.22 −16.55 −23.7	0322 I17 70.27 −25.69 −18.43	0331 J17 28.86 58.1 −25.72
18	0251 A18 27.31 59.33 −38.61	0260 B18 33.56 49.1 −37.45	0269 C18 39.82 38.87 −36.29	0278 D18 46.07 28.64 −35.13	0287 E18 51.12 18.77 −34.03	0296 F18 56.17 8.9 −32.92	0305 G18 61.22 −0.96 −31.82	0314 H18 66.27 −10.82 −30.72	0323 I18 71.32 −20.69 −29.62	0332 J18 30.92 63.83 −32.74
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 −7.94 74.62	0549 H19 73.72 −17.09 79.89	0558 I19 79.77 −26.23 85.17	0567 J19 39.5 62.44 66.08
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 −6.62 62.19	0550 H20 74.37 −15.77 67.47	0559 I20 80.42 −24.91 72.74	0568 J20 39.53 63.75 55.49
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 −5.3 49.75	0551 H21 75.02 −14.44 55.03	0560 I21 81.07 −23.59 60.3	0569 J21 39.55 65.06 44.89
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 −3.97 37.31	0552 H22 75.66 −13.12 42.59	0561 I22 81.71 −22.26 47.86	0570 J22 39.58 66.37 34.28
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 −2.65 24.87	0553 H23 76.31 −11.79 30.15	0562 I23 82.36 −20.94 35.42	0571 J23 39.61 67.68 23.68
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 −1.32 12.43	0554 H24 76.96 −10.47 17.71	0563 I24 83.01 −19.61 22.98	0572 J24 39.64 68.99 13.07
25	0492 A25 34.02 61.37 −6.96	0501 B25 40.27 51.15 −5.8	0510 C25 46.53 40.92 −4.64	0519 D25 52.79 30.69 −3.48	0528 E25 59.04 20.46 −2.32	0537 F25 65.3 10.23 −1.16	0546 G25 71.56 0.0 −0.01	0555 H25 77.61 −9.14 5.27	0564 I25 83.66 −18.29 10.54	0573 J25 39.66 70.3 2.47
26	0493 A26 36.08 67.1 −13.99	0502 B26 42.33 56.88 −12.83	0511 C26 48.59 46.65 −11.67	0520 D26 54.85 36.42 −10.51	0529 E26 61.1 26.19 −9.35	0538 F26 67.36 15.96 −8.18	0547 G26 73.61 5.73 −7.02	0556 H26 78.66 −4.13 −5.92	0565 I26 84.71 −13.28 −0.65	0574 J26 39.69 71.61 −8.12
27	0494 A27 38.14 72.83 −21.01	0503 B27 44.39 62.61 −19.85	0512 C27 50.65 52.38 −18.69	0521 D27 56.9 42.14 −17.53	0530 E27 63.16 31.91 −16.37	0539 F27 69.41 21.68 −15.21	0548 G27 75.67 11.45 −14.04	0557 H27 80.72 1.58 −12.94	0566 I27 85.77 −8.27 −11.84	0575 J27 41.75 77.33 −15.14

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.28 −1.32 12.42	0099 L01 17.34 −10.47 17.7	0108 M01 23.39 −19.62 22.98	0117 N01 29.45 −28.77 28.25	0126 O01 35.5 −37.91 33.53	0135 P01 41.56 −47.06 38.81	0144 Q01 47.61 −56.21 44.08	0153 R01 53.66 −65.35 49.35	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87
02	0091 K02 11.94 0.0 −0.01	0100 L02 17.99 −9.14 5.27	0109 M02 24.04 −18.29 10.55	0118 N02 30.1 −27.44 15.82	0127 O02 36.15 −36.59 21.1	0136 P02 42.21 −45.74 26.38	0145 Q02 48.26 −54.89 31.65	0154 R02 54.31 −64.03 36.92	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44
03	0092 K03 13.99 5.73 −7.02	0101 L03 19.04 −4.13 −5.92	0110 M03 25.09 −13.28 −0.65	0119 N03 31.15 −22.43 4.62	0128 O03 37.2 −31.58 9.9	0137 P03 43.26 −40.73 15.17	0146 Q03 49.31 −49.88 20.45	0155 R03 55.36 −59.02 25.72	0164 S03 11.35 20.45 −2.32	0173 T03 17.6 10.23 −1.16
04	0093 K04 16.05 11.46 −14.05	0102 L04 21.1 1.59 −12.95	0111 M04 26.15 −8.27 −11.85	0120 N04 32.2 −17.42 −6.57	0129 O04 38.26 −26.57 −1.3	0138 P04 44.31 −35.72 3.97	0147 Q04 50.37 −44.87 9.25	0156 R04 56.42 −54.01 14.52	0165 S04 13.41 26.18 −9.34	0174 T04 19.66 15.96 −8.18
05	0094 K05 18.11 17.19 −21.08	0103 L05 23.16 7.32 −19.98	0112 M05 28.21 −2.54 −18.88	0121 N05 33.26 −12.41 −17.77	0130 O05 39.31 −21.56 −12.5	0139 P05 45.37 −30.71 −7.22	0148 Q05 51.42 −39.86 −1.94	0157 R05 57.47 −49.0 3.32	0166 S05 15.47 31.91 −16.37	0175 T05 21.72 21.69 −15.21
06	0095 K06 20.17 22.92 −28.11	0104 L06 25.22 13.05 −27.0	0113 M06 30.27 3.18 −25.9	0122 N06 35.32 −6.68 −24.8	0131 O06 40.37 −16.55 −23.7	0140 P06 46.42 −25.7 −18.42	0149 Q06 52.48 −34.85 −13.15	0158 R06 58.53 −43.99 −7.88	0167 S06 17.52 37.64 −23.4	0176 T06 23.78 27.42 −22.24
07	0096 K07 22.22 28.65 −35.13	0105 L07 27.27 18.78 −34.03	0114 M07 32.32 8.91 −32.93	0123 N07 37.37 −0.95 −31.83	0132 O07 42.42 −10.82 −30.73	0141 P07 47.47 −20.69 −29.63	0150 Q07 53.53 −29.84 −24.35	0159 R07 59.58 −38.98 −19.08	0168 S07 19.58 43.37 −30.43	0177 T07 25.83 33.15 −29.27
08	0097 K08 24.28 34.38 −42.16	0106 L08 29.33 24.51 −41.06	0115 M08 34.38 14.64 −39.96	0124 N08 39.43 4.77 −38.86	0133 O08 44.48 −5.09 −37.76	0142 P08 49.53 −14.96 −36.65	0151 Q08 54.58 −24.83 −35.55	0160 R08 60.63 −33.97 −30.28	0169 S08 21.64 49.1 −37.45	0178 T08 27.89 38.88 −36.29
09	0098 K09 26.34 40.1 −49.18	0107 L09 31.39 30.23 −48.08	0116 M09 36.44 20.36 −46.98	0125 N09 41.49 10.49 −45.88	0134 O09 46.54 0.63 −44.78	0143 P09 51.59 −9.23 −43.68	0152 Q09 56.64 −19.1 −42.57	0161 R09 61.69 −28.96 −41.47	0170 S09 23.7 54.82 −44.48	0179 T09 29.95 44.6 −43.32
10	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 −5.29 49.74	0369 O10 51.17 −14.44 55.02	0378 P10 57.22 −23.59 60.29	0387 Q10 63.28 −32.74 65.57	0396 R10 69.33 −41.88 70.84	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19
11	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 −3.97 37.31	0370 O11 51.81 −13.12 42.59	0379 P11 57.87 −22.27 47.86	0388 Q11 63.92 −31.42 53.14	0397 R11 69.97 −40.56 58.41	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77
12	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 −2.65 24.87	0371 O12 52.46 −11.79 30.15	0380 P12 58.52 −20.94 35.43	0389 Q12 64.57 −30.09 40.7	0398 R12 70.62 −39.23 45.97	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16
13	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 −1.32 12.43	0372 O13 53.11 −10.47 17.71	0381 P13 59.17 −19.62 22.99	0390 Q13 65.22 −28.77 28.26	0399 R13 71.27 −37.91 33.53	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56
14	0337 K14 28.94 30.69 −3.48	0346 L14 35.19 20.46 −2.32	0355 M14 41.45 10.23 −1.16	0364 N14 47.71 0.0 −0.01	0373 O14 53.76 −9.14 5.27	0382 P14 59.82 −18.29 10.55	0391 Q14 65.87 −27.44 15.82	0400 R14 71.92 −36.58 21.1	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95
15	0338 K15 31.0 36.42 −10.51	0347 L15 37.25 26.19 −9.35	0356 M15 43.51 15.96 −8.18	0365 N15 49.76 5.73 −7.02	0374 O15 54.81 −4.13 −5.92	0383 P15 60.87 −13.28 −0.65	0392 Q15 66.92 −22.43 4.62	0401 R15 72.97 −31.57 9.89	0410 S15 28.35 51.14 −5.8	0419 T15 34.61 40.92 −4.64
16	0339 K16 33.05 42.15 −17.53	0348 L16 39.31 31.92 −16.37	0357 M16 45.57 21.69 −15.21	0366 N16 51.82 11.46 −14.05	0375 O16 56.87 1.59 −12.95	0384 P16 61.92 −8.27 −11.85	0393 Q16 67.98 −17.42 −6.57	0402 R16 74.03 −26.56 −1.3	0411 S16 30.41 56.87 −12.83	0420 T16 36.66 46.65 −11.67
17	0340 K17 35.11 47.88 −24.56	0349 L17 41.37 37.65 −23.4	0358 M17 47.63 27.42 −22.24	0367 N17 53.88 17.19 −21.08	0376 O17 58.93 7.32 −19.98	0385 P17 63.98 −2.54 −18.88	0394 Q17 69.03 −12.41 −17.77	0403 R17 75.08 −21.55 −12.5	0412 S17 32.47 62.6 −19.86	0421 T17 38.72 52.38 −18.7
18	0341 K18 37.17 53.6 −31.58	0350 L18 43.43 43.37 −30.42	0359 M18 49.68 33.14 −29.26	0368 N18 55.94 22.91 −28.1	0377 O18 60.99 13.04 −27.0	0386 P18 66.04 3.17 −25.9	0395 Q18 71.09 −6.69 −24.8	0404 R18 76.13 −16.55 −23.7	0413 S18 34.53 68.33 −26.88	0422 T18 40.78 58.11 −25.72
19	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 −9.27 87.06	0639 R19 84.99 −18.41 92.33	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51
20	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 −7.95 74.63	0640 R20 85.64 −17.09 79.9	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08
21	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 −6.62 62.19	0641 R21 86.29 −15.76 67.46	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48
22	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 −5.3 49.75	0642 R22 86.94 −14.44 55.02	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88
23	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 −3.97 37.31	0643 R23 87.58 −13.11 42.58	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27
24	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 −2.65 24.87	0644 R24 88.23 −11.79 30.14	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67
25	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 −1.32 12.43	0645 R25 88.88 −10.46 17.71	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07
26	0583 K26 45.94 61.38 −6.96	0592 L26 52.2 51.15 −5.8	0601 M26 58.46 40.92 −4.64	0610 N26 64.71 30.69 −3.48	0619 O26 70.97 20.46 −2.32	0628 P26 77.22 10.23 −1.16	0637 Q26 83.49 0.0 −0.01	0646 R26 89.53 −9.14 5.27	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46
27	0584 K27 48.0 67.11 −13.98	0593 L27 54.26 56.88 −12.82	0602 M27 60.51 46.65 −11.66	0611 N27 66.77 36.41 −10.5	0620 O27 73.02 26.18 −9.34	0629 P27 79.28 15.95 −8.18	0638 Q27 85.54 5.72 −7.02	0647 R27 90.58 −4.13 −5.92	0656 S27 45.36 81.83 −9.28	0665 T27 51.61 71.61 −8.12

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 22.56 −2.64 24.86	0189 V01 28.61 −11.79 30.14	0198 W01 34.67 −20.94 35.42	0207 X01 40.72 −30.09 40.69	0216 Y01 46.78 −39.24 45.97	0225 Z01 52.83 −48.39 51.24	0234 a01 58.88 −57.53 56.52	0729 b01 95.4 0.0 −0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87
02	0181 U02 23.21 −1.32 12.43	0190 V02 29.26 −10.47 17.71	0199 W02 35.32 −19.62 22.99	0208 X02 41.37 −28.77 28.26	0217 Y02 47.43 −37.92 33.54	0226 Z02 53.48 −47.06 38.82	0235 a02 59.53 −56.21 44.09	0730 b02 90.58 −4.13 −5.92	0739 c02 83.49 0.0 −0.01	0748 d02 77.2 8.92 9.44
03	0182 U03 23.86 0.0 −0.01	0191 V03 29.91 −9.14 5.27	0200 W03 35.96 −18.29 10.55	0209 X03 42.02 −27.44 15.82	0218 Y03 48.08 −36.59 21.1	0227 Z03 54.13 −45.74 26.38	0236 a03 60.18 −54.88 31.65	0731 b03 85.77 −8.27 −11.84	0740 c03 78.66 −4.13 −5.92	0749 d03 71.56 0.0 −0.01
04	0183 U04 25.91 5.73 −7.02	0192 V04 30.96 −4.13 −5.92	0201 W04 37.02 −13.28 −0.65	0210 X04 43.07 −22.43 4.62	0219 Y04 49.13 −31.58 9.9	0228 Z04 55.18 −40.73 15.17	0237 a04 61.23 −49.87 20.45	0732 b04 80.95 −12.41 −17.77	0741 c04 73.85 −8.27 −11.85	0750 d04 66.74 −4.13 −5.92
05	0184 U05 27.97 11.46 −14.05	0193 V05 33.02 1.59 −12.95	0202 W05 38.07 −8.27 −11.85	0211 X05 44.13 −17.42 −6.57	0220 Y05 50.18 −26.57 −1.3	0229 Z05 56.24 −35.72 3.97	0238 a05 62.29 −44.86 9.24	0733 b05 76.13 −16.55 −23.7	0742 c05 69.03 −12.41 −17.77	0751 d05 61.92 −8.27 −11.85
06	0185 U06 30.03 17.19 −21.08	0194 V06 35.08 7.32 −19.98	0203 W06 40.13 −2.54 −18.88	0212 X06 45.18 −12.41 −17.77	0221 Y06 51.24 −21.56 −12.5	0230 Z06 57.29 −30.71 −7.22	0239 a06 63.34 −39.85 −1.95	0734 b06 71.32 −20.69 −29.62	0743 c06 64.22 −16.55 −23.7	0752 d06 57.11 −12.41 −17.77
07	0186 U07 32.09 22.92 −28.11	0195 V07 37.14 13.05 −27.0	0204 W07 42.19 3.18 −25.9	0213 X07 47.24 −6.68 −24.8	0222 Y07 52.29 −16.55 −23.7	0231 Z07 58.35 −25.7 −18.42	0240 a07 64.4 −34.84 −13.15	0735 b07 66.5 −24.82 −35.55	0744 c07 59.4 −20.69 −29.63	0753 d07 52.29 −16.55 −23.7
08	0187 U08 34.15 28.65 −35.13	0196 V08 39.2 18.78 −34.03	0205 W08 44.25 8.91 −32.93	0214 X08 49.3 −0.95 −31.83	0223 Y08 54.35 −10.82 −30.73	0232 Z08 59.4 −20.69 −29.63	0241 a08 65.45 −29.83 −24.35	0736 b08 61.69 −28.96 −41.47	0745 c08 54.58 −24.83 −35.55	0754 d08 47.47 −20.69 −29.63
09	0188 U09 36.21 34.37 −42.15	0197 V09 41.26 24.5 −41.05	0206 W09 46.31 14.63 −39.95	0215 X09 51.36 4.76 −38.85	0224 Y09 56.41 −5.09 −37.75	0233 Z09 61.46 −14.96 −36.65	0242 a09 66.5 −24.82 −35.55	0737 b09 56.87 −33.1 −47.4	0746 c09 49.77 −28.96 −41.47	0755 d09 42.66 −24.82 −35.55
10	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 −6.62 62.18	0459 Y10 62.44 −15.77 67.46	0468 Z10 68.5 −24.92 72.73	0477 a10 74.55 −34.06 78.0	0810 b10 95.4 0.0 −0.01	0819 c10 94.75 −1.32 12.42	0828 d10 94.1 −2.64 24.86
11	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 −5.3 49.75	0460 Y11 63.09 −14.44 55.03	0469 Z11 69.15 −23.59 60.3	0478 a11 75.2 −32.73 65.57	0811 b11 85.54 5.72 −7.02	0820 c11 83.49 0.0 −0.01	0829 d11 82.83 −1.32 12.43
12	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 −3.97 37.31	0461 Y12 63.74 −13.12 42.59	0470 Z12 69.79 −22.27 47.86	0479 a12 75.84 −31.41 53.14	0812 b12 75.67 11.45 −14.04	0821 c12 73.61 5.73 −7.02	0830 d12 71.56 0.0 −0.01
13	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 −2.65 24.87	0462 Y13 64.39 −11.79 30.15	0471 Z13 70.44 −20.94 35.43	0480 a13 76.49 −30.08 40.7	0813 b13 65.8 17.18 −21.07	0822 c13 63.75 11.46 −14.05	0831 d13 61.69 5.73 −7.02
14	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 −1.32 12.43	0463 Y14 65.04 −10.47 17.71	0472 Z14 71.09 −19.62 22.99	0481 a14 77.14 −28.76 28.26	0814 b14 55.94 22.91 −28.1	0823 c14 53.88 17.19 −21.08	0832 d14 51.82 11.46 −14.05
15	0428 U15 40.86 30.69 −3.48	0437 V15 47.12 20.46 −2.32	0446 W15 53.37 10.23 −1.16	0455 X15 59.64 0.0 −0.01	0464 Y15 65.69 −9.14 5.27	0473 Z15 71.74 −18.29 10.55	0482 a15 77.79 −27.43 15.82	0815 b15 46.07 28.64 −35.13	0824 c15 44.02 22.92 −28.11	0833 d15 41.96 17.19 −21.08
16	0429 U16 42.92 36.42 −10.51	0438 V16 49.18 26.19 −9.35	0447 W16 55.43 15.96 −8.18	0456 X16 61.69 5.73 −7.02	0465 Y16 66.74 −4.13 −5.92	0474 Z16 72.79 −13.28 −0.65	0483 a16 78.84 −22.42 4.62	0816 b16 36.21 34.37 −42.15	0825 c16 34.15 28.65 −35.13	0834 d16 32.09 22.92 −28.11
17	0430 U17 44.98 42.15 −17.53	0439 V17 51.24 31.92 −16.37	0448 W17 57.49 21.69 −15.21	0457 X17 63.75 11.46 −14.05	0466 Y17 68.8 1.59 −12.95	0475 Z17 73.85 −8.27 −11.85	0484 a17 79.9 −17.41 −6.58	0817 b17 26.34 40.1 −49.18	0826 c17 24.28 34.38 −42.16	0835 d17 22.22 28.65 −35.13
18	0431 U18 47.04 47.87 −24.56	0440 V18 53.29 37.64 −23.39	0449 W18 59.55 27.41 −22.23	0458 X18 65.8 17.18 −21.07	0467 Y18 70.85 7.31 −19.97	0476 Z18 75.9 −2.55 −18.87	0485 a18 80.95 −12.41 −17.77	0818 b18 16.48 45.83 −56.2	0827 c18 14.42 40.1 −49.18	0836 d18 12.37 34.37 −42.15
19	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 −0.35 96.49	0720 a19 90.21 −10.59 99.49	0891 b19 95.4 0.0 −0.01	0900 c19 89.53 −9.14 5.27	0909 d19 83.66 −18.29 10.54
20	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 −9.27 87.06	0892 b20 89.14 10.22 −1.16	0901 c20 83.49 0.0 −0.01	0910 d20 77.61 −9.14 5.27
21	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 −7.94 74.62	0893 b21 82.89 20.45 −2.32	0902 c21 77.22 10.23 −1.16	0911 d21 71.56 0.0 −0.01
22	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 −6.62 62.18	0894 b22 76.63 30.68 −3.48	0903 c22 70.97 20.46 −2.32	0912 d22 65.3 10.23 −1.16
23	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 −5.29 49.74	0895 b23 70.38 40.91 −4.64	0904 c23 64.71 30.69 −3.48	0913 d23 59.04 20.46 −2.32
24	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 −3.97 37.3	0896 b24 64.12 51.14 −5.8	0905 c24 58.46 40.92 −4.64	0914 d24 52.79 30.69 −3.48
25	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 −2.64 24.86	0897 b25 57.86 61.37 −6.96	0906 c25 52.2 51.15 −5.8	0915 d25 46.53 40.92 −4.64
26	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 −1.32 12.42	0898 b26 51.61 71.61 −8.12	0907 c26 45.94 61.38 −6.96	0916 d26 40.27 51.15 −5.8
27	0674 U27 57.86 61.37 −6.96	0683 V27 64.12 51.14 −5.8	0692 W27 70.38 40.91 −4.64	0701 X27 76.63 30.68 −3.48	0710 Y27 82.89 20.45 −2.32	0719 Z27 89.14 10.22 −1.16	0728 a27 95.4 0.0 −0.01	0899 b27 45.36 81.83 −9.28	0908 c27 39.69 71.61 −8.12	0917 d27 34.02 61.37 −6.96

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52	0972 k01 0.02 0.0 −0.01	0981 l01 0.02 0.0 −0.01	0990 m01 0.02 0.0 −0.01	0999 n01 0.02 0.0 −0.01
02	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64	0974 k03 23.86 0.0 −0.01	0983 l03 23.86 0.0 −0.01	0992 m03 23.86 0.0 −0.01	1001 n03 23.86 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 54.81 −4.13 −5.92	0769 f05 47.71 0.0 −0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76	0976 k05 47.71 0.0 −0.01	0985 l05 47.71 0.0 −0.01	0994 m05 47.71 0.0 −0.01	1003 n05 47.71 0.0 −0.01
06	0761 e06 50.0 −8.27 −11.85	0770 f06 42.89 −4.13 −5.92	0779 g06 35.79 0.0 −0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 45.18 −12.41 −17.77	0771 f07 38.07 −8.27 −11.85	0780 g07 30.96 −4.13 −5.92	0789 h07 23.86 0.0 −0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87	0978 k07 71.56 0.0 −0.01	0987 l07 71.56 0.0 −0.01	0996 m07 71.56 0.0 −0.01	1005 n07 71.56 0.0 −0.01
08	0763 e08 40.37 −16.55 −23.7	0772 f08 33.26 −12.41 −17.77	0781 g08 26.15 −8.27 −11.85	0790 h08 19.04 −4.13 −5.92	0799 i08 11.94 0.0 −0.01	0808 j08 5.65 8.91 9.43	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 35.55 −20.69 −29.62	0773 f09 28.44 −16.55 −23.7	0782 g09 21.34 −12.41 −17.77	0791 h09 14.23 −8.27 −11.84	0800 i09 7.12 −4.13 −5.92	0809 j09 0.02 0.0 −0.01	0980 k09 95.4 0.0 −0.01	0989 l09 95.4 0.0 −0.01	0998 m09 95.4 0.0 −0.01	1007 n09 95.4 0.0 −0.01
10	0837 e10 93.45 −3.97 37.3	0846 f10 92.8 −5.29 49.74	0855 g10 92.15 −6.62 62.18	0864 h10 91.5 −7.94 74.62	0873 i10 90.85 −9.27 87.06	0882 j10 90.21 −10.59 99.49	1008 k10 0.02 0.0 −0.01	1024 l10 0.02 0.0 −0.01	1040 m10 0.02 0.0 −0.01	1056 n10 0.02 0.0 −0.01
11	0838 e11 82.18 −2.65 24.87	0847 f11 81.53 −3.97 37.31	0856 g11 80.89 −5.3 49.75	0865 h11 80.24 −6.62 62.19	0874 i11 79.59 −7.95 74.63	0883 j11 78.94 −9.27 87.06	1009 k11 6.37 0.0 −0.01	1025 l11 6.37 0.0 −0.01	1041 m11 6.37 0.0 −0.01	1057 n11 6.37 0.0 −0.01
12	0839 e12 70.91 −1.32 12.43	0848 f12 70.26 −2.65 24.87	0857 g12 69.61 −3.97 37.31	0866 h12 68.96 −5.3 49.75	0875 i12 68.31 −6.62 62.19	0884 j12 67.66 −7.94 74.62	1010 k12 12.73 0.0 −0.01	1026 l12 12.73 0.0 −0.01	1042 m12 12.73 0.0 −0.01	1058 n12 12.73 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 58.98 −1.32 12.43	0858 g13 58.33 −2.65 24.87	0867 h13 57.68 −3.97 37.31	0876 i13 57.03 −5.3 49.75	0885 j13 56.39 −6.62 62.18	1011 k13 19.09 0.0 −0.01	1027 l13 19.09 0.0 −0.01	1043 m13 19.09 0.0 −0.01	1059 n13 19.09 0.0 −0.01
14	0841 e14 49.76 5.73 −7.02	0850 f14 47.71 0.0 −0.01	0859 g14 47.06 −1.32 12.43	0868 h14 46.41 −2.65 24.87	0877 i14 45.76 −3.97 37.31	0886 j14 45.11 −5.29 49.74	1012 k14 25.45 0.0 −0.01	1028 l14 25.45 0.0 −0.01	1044 m14 25.45 0.0 −0.01	1060 n14 25.45 0.0 −0.01
15	0842 e15 39.9 11.46 −14.05	0851 f15 37.84 5.73 −7.02	0860 g15 35.79 0.0 −0.01	0869 h15 35.13 −1.32 12.43	0878 i15 34.48 −2.65 24.87	0887 j15 33.83 −3.97 37.3	1013 k15 31.81 0.0 −0.01	1029 l15 31.81 0.0 −0.01	1045 m15 31.81 0.0 −0.01	1061 n15 31.81 0.0 −0.01
16	0843 e16 30.03 17.19 −21.08	0852 f16 27.97 11.46 −14.05	0861 g16 25.91 5.73 −7.02	0870 h16 23.86 0.0 −0.01	0879 i16 23.21 −1.32 12.43	0888 j16 22.56 −2.64 24.86	1014 k16 38.17 0.0 −0.01	1030 l16 38.17 0.0 −0.01	1046 m16 38.17 0.0 −0.01	1062 n16 38.17 0.0 −0.01
17	0844 e17 20.17 22.92 −28.11	0853 f17 18.11 17.19 −21.08	0862 g17 16.05 11.46 −14.05	0871 h17 13.99 5.73 −7.02	0880 i17 11.94 0.0 −0.01	0889 j17 11.28 −1.32 12.42	1015 k17 44.53 0.0 −0.01	1031 l17 44.53 0.0 −0.01	1047 m17 44.53 0.0 −0.01	1063 n17 44.53 0.0 −0.01
18	0845 e18 10.31 28.64 −35.13	0854 f18 8.25 22.91 −28.1	0863 g18 6.19 17.18 −21.07	0872 h18 4.13 11.45 −14.04	0881 i18 2.07 5.72 −7.02	0890 j18 0.02 0.0 −0.01	1016 k18 50.89 0.0 −0.01	1032 l18 50.89 0.0 −0.01	1048 m18 50.89 0.0 −0.01	1064 n18 50.89 0.0 −0.01
19	0918 e19 77.79 −27.43 15.82	0927 f19 71.92 −36.58 21.1	0936 g19 66.05 −45.73 26.37	0945 h19 60.18 −54.88 31.65	0954 i19 54.31 −64.03 36.92	0963 j19 48.44 −73.17 42.2	1017 k19 57.25 0.0 −0.01	1033 l19 57.25 0.0 −0.01	1049 m19 57.25 0.0 −0.01	1065 n19 57.25 0.0 −0.01
20	0919 e20 71.74 −18.29 10.55	0928 f20 65.87 −27.44 15.82	0937 g20 60.0 −36.59 21.1	0946 h20 54.13 −45.74 26.38	0955 i20 48.26 −54.89 31.65	0964 j20 42.39 −64.03 36.92	1018 k20 63.61 0.0 −0.01	1034 l20 63.61 0.0 −0.01	1050 m20 63.61 0.0 −0.01	1066 n20 63.61 0.0 −0.01
21	0920 e21 65.69 −9.14 5.27	0929 f21 59.82 −18.29 10.55	0938 g21 53.95 −27.44 15.82	0947 h21 48.08 −36.59 21.1	0956 i21 42.21 −45.74 26.38	0965 j21 36.34 −54.88 31.65	1019 k21 69.97 0.0 −0.01	1035 l21 69.97 0.0 −0.01	1051 m21 69.97 0.0 −0.01	1067 n21 69.97 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 53.76 −9.14 5.27	0939 g22 47.89 −18.29 10.55	0948 h22 42.02 −27.44 15.82	0957 i22 36.15 −36.59 21.1	0966 j22 30.28 −45.73 26.37	1020 k22 76.33 0.0 −0.01	1036 l22 76.33 0.0 −0.01	1052 m22 76.33 0.0 −0.01	1068 n22 76.33 0.0 −0.01
23	0922 e23 53.37 10.23 −1.16	0931 f23 47.71 0.0 −0.01	0940 g23 41.84 −9.14 5.27	0949 h23 35.96 −18.29 10.55	0958 i23 30.1 −27.44 15.82	0967 j23 24.23 −36.58 21.1	1021 k23 82.69 0.0 −0.01	1037 l23 82.69 0.0 −0.01	1053 m23 82.69 0.0 −0.01	1069 n23 82.69 0.0 −0.01
24	0923 e24 47.12 20.46 −2.32	0932 f24 41.45 10.23 −1.16	0941 g24 35.79 0.0 −0.01	0950 h24 29.91 −9.14 5.27	0959 i24 24.04 −18.29 10.55	0968 j24 18.17 −27.43 15.82	1022 k24 89.05 0.0 −0.01	1038 l24 89.05 0.0 −0.01	1054 m24 89.05 0.0 −0.01	1070 n24 89.05 0.0 −0.01
25	0924 e25 40.86 30.69 −3.48	0933 f25 35.19 20.46 −2.32	0942 g25 29.52 10.23 −1.16	0951 h25 23.86 0.0 −0.01	0960 i25 17.99 −9.14 5.27	0969 j25 12.12 −18.29 10.54	1023 k25 95.4 0.0 −0.01	1039 l25 95.4 0.0 −0.01	1055 m25 95.4 0.0 −0.01	1071 n25 95.4 0.0 −0.01
26	0925 e26 34.61 40.92 −4.64	0934 f26 28.94 30.69 −3.48	0943 g26 23.27 20.46 −2.32	0952 h26 17.6 10.23 −1.16	0961 i26 11.94 0.0 −0.01	0970 j26 6.06 −9.14 5.27	1072 k26 0.02 0.0 −0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 −10.59 99.49	1078 n26 48.44 −73.17 42.2
27	0926 e27 28.35 51.14 −5.8	0935 f27 22.69 40.91 −4.64	0944 g27 17.02 30.68 −3.48	0953 h27 11.35 20.45 −2.32	0962 i27 5.68 10.22 −1.16	0971 j27 0.02 0.0 −0.01	1073 k27 95.4 0.0 −0.01	1075 l27 56.87 −33.1 −47.4	1077 m27 16.48 45.83 −56.2	1079 n27 45.36 81.83 −9.28

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 23/4, OLS11

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.02 0.0 −0.01	0009 B01 6.06 −9.14 5.27	0018 C01 12.12 −18.29 10.54	0027 D01 18.17 −27.43 15.82	0036 E01 24.23 −36.58 21.1	0045 F01 30.28 −45.73 26.37	0054 G01 36.34 −54.88 31.65	0063 H01 42.39 −64.03 36.92	0072 I01 48.44 −73.17 42.2	0081 J01 5.65 8.91 9.43
02	0001 A02 2.07 5.72 −7.02	0010 B02 7.12 −4.13 −5.92	0019 C02 13.17 −13.28 −0.64	0028 D02 19.23 −22.43 4.63	0037 E02 25.28 −31.58 9.9	0046 F02 31.34 −40.73 15.18	0055 G02 37.39 −49.87 20.45	0064 H02 43.45 −59.02 25.73	0073 I02 49.5 −68.16 31.0	0082 J02 5.68 10.22 −1.16
03	0002 A03 4.13 11.45 −14.04	0011 B03 9.18 1.59 −12.94	0020 C03 14.23 −8.27 −11.84	0029 D03 20.28 −17.42 −6.57	0038 E03 26.34 −26.57 −1.29	0047 F03 32.39 −35.72 3.98	0056 G03 38.45 −44.86 9.25	0065 H03 44.5 −54.01 14.53	0074 I03 50.55 −63.15 19.8	0083 J03 7.74 15.95 −8.18
04	0003 A04 6.19 17.18 −21.07	0012 B04 11.24 7.32 −19.97	0021 C04 16.29 −2.54 −18.87	0030 D04 21.34 −12.41 −17.77	0039 E04 27.39 −21.56 −12.49	0048 F04 33.45 −30.71 −7.22	0057 G04 39.5 −39.85 −1.94	0066 H04 45.56 −49.0 3.33	0075 I04 51.61 −58.14 8.6	0084 J04 9.8 21.68 −15.21
05	0004 A05 8.25 22.91 −28.1	0013 B05 13.29 13.05 −27.0	0022 C05 18.34 3.18 −25.9	0031 D05 23.39 −6.68 −24.8	0040 E05 28.44 −16.55 −23.7	0049 F05 34.5 −25.7 −18.42	0058 G05 40.55 −34.84 −13.14	0067 H05 46.61 −43.99 −7.87	0076 I05 52.66 −53.13 −2.59	0085 J05 11.86 27.41 −22.24
06	0005 A06 10.31 28.64 −35.13	0014 B06 15.35 18.78 −34.03	0023 C06 20.4 8.91 −32.93	0032 D06 25.45 −0.95 −31.82	0041 E06 30.5 −10.82 −30.72	0050 F06 35.55 −20.69 −29.62	0059 G06 41.61 −29.83 −24.35	0068 H06 47.66 −38.98 −19.07	0077 I06 53.71 −48.12 −13.8	0086 J06 13.91 33.14 −29.27
07	0006 A07 12.37 34.37 −42.15	0015 B07 17.41 24.51 −41.05	0024 C07 22.46 14.64 −39.95	0033 D07 27.51 4.77 −38.85	0042 E07 32.56 −5.09 −37.75	0051 F07 37.61 −14.96 −36.65	0060 G07 42.66 −24.82 −35.55	0069 H07 48.72 −33.97 −30.27	0078 I07 54.77 −43.11 −25.0	0087 J07 15.97 38.87 −36.29
08	0007 A08 14.42 40.1 −49.18	0016 B08 19.47 30.24 −48.08	0025 C08 24.52 20.37 −46.98	0034 D08 29.57 10.5 −45.88	0043 E08 34.62 0.63 −44.78	0052 F08 39.67 −9.23 −43.68	0061 G08 44.72 −19.09 −42.58	0070 H08 49.77 −28.96 −41.47	0079 I08 55.82 −38.1 −36.2	0088 J08 18.03 44.6 −43.32
09	0008 A09 16.48 45.83 −56.2	0017 B09 21.53 35.96 −55.1	0026 C09 26.58 26.1 −54.0	0035 D09 31.63 16.23 −52.9	0044 E09 36.68 6.36 −51.8	0053 F09 41.73 −3.5 −50.7	0062 G09 46.78 −13.37 −49.6	0071 H09 51.83 −23.24 −48.5	0080 I09 56.87 −33.1 −47.4	0089 J09 20.09 50.32 −50.34
10	0243 A10 16.93 26.75 28.31	0252 B10 22.56 16.51 31.31	0261 C10 28.2 6.27 34.31	0270 D10 33.83 −3.97 37.3	0279 E10 39.89 −13.12 42.58	0288 F10 45.94 −22.27 47.85	0297 G10 52.0 −31.42 53.13	0306 H10 58.05 −40.56 58.41	0315 I10 64.1 −49.71 63.68	0324 J10 22.58 35.67 37.76
11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 −2.65 24.87	0280 E11 40.54 −11.79 30.15	0289 F11 46.59 −20.94 35.43	0298 G11 52.65 −30.09 40.7	0307 H11 58.7 −39.24 45.98	0316 I11 64.75 −48.38 51.25	0325 J11 22.6 36.98 27.16
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 −1.32 12.43	0281 E12 41.19 −10.47 17.71	0290 F12 47.24 −19.62 22.99	0299 G12 53.3 −28.77 28.26	0308 H12 59.35 −37.92 33.54	0317 I12 65.4 −47.06 38.81	0326 J12 22.63 38.29 16.56
13	0246 A13 17.02 30.68 −3.48	0255 B13 23.27 20.46 −2.32	0264 C13 29.52 10.23 −1.16	0273 D13 35.79 0.0 −0.01	0282 E13 41.84 −9.14 5.27	0291 F13 47.89 −18.29 10.55	0300 G13 53.95 −27.44 15.82	0309 H13 60.0 −36.59 21.1	0318 I13 66.05 −45.73 26.37	0327 J13 22.66 39.6 5.95
14	0247 A14 19.08 36.41 −10.51	0256 B14 25.33 26.19 −9.35	0265 C14 31.58 15.96 −8.18	0274 D14 37.84 5.73 −7.02	0283 E14 42.89 −4.13 −5.92	0292 F14 48.94 −13.28 −0.65	0301 G14 55.0 −22.43 4.62	0310 H14 61.05 −31.58 9.9	0319 I14 67.1 −40.72 15.17	0328 J14 22.69 40.91 −4.64
15	0248 A15 21.13 42.14 −17.53	0257 B15 27.39 31.92 −16.37	0266 C15 33.64 21.69 −15.21	0275 D15 39.9 11.46 −14.05	0284 E15 44.95 1.59 −12.95	0293 F15 50.0 −8.27 −11.85	0302 G15 56.05 −17.42 −6.57	0311 H15 62.11 −26.57 −1.3	0320 I15 68.16 −35.71 3.97	0329 J15 24.74 46.64 −11.67
16	0249 A16 23.19 47.87 −24.56	0258 B16 29.44 37.65 −23.4	0267 C16 35.7 27.42 −22.24	0276 D16 41.96 17.19 −21.08	0285 E16 47.01 7.32 −19.98	0294 F16 52.06 −2.54 −18.88	0303 G16 57.11 −12.41 −17.77	0312 H16 63.16 −21.56 −12.5	0321 I16 69.21 −30.7 −7.23	0330 J16 26.8 52.37 −18.69
17	0250 A17 25.25 53.6 −31.59	0259 B17 31.5 43.38 −30.43	0268 C17 37.76 33.15 −29.27	0277 D17 44.02 22.92 −28.11	0286 E17 49.07 13.05 −27.0	0295 F17 54.12 3.18 −25.9	0304 G17 59.17 −6.68 −24.8	0313 H17 64.22 −16.55 −23.7	0322 I17 70.27 −25.69 −18.43	0331 J17 28.86 58.1 −25.72
18	0251 A18 27.31 59.33 −38.61	0260 B18 33.56 49.1 −37.45	0269 C18 39.82 38.87 −36.29	0278 D18 46.07 28.64 −35.13	0287 E18 51.12 18.77 −34.03	0296 F18 56.17 8.9 −32.92	0305 G18 61.22 −0.96 −31.82	0314 H18 66.27 −10.82 −30.72	0323 I18 71.32 −20.69 −29.62	0332 J18 30.92 63.83 −32.74
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 −7.94 74.62	0549 H19 73.72 −17.09 79.89	0558 I19 79.77 −26.23 85.17	0567 J19 39.5 62.44 66.08
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 −6.62 62.19	0550 H20 74.37 −15.77 67.47	0559 I20 80.42 −24.91 72.74	0568 J20 39.53 63.75 55.49
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 −5.3 49.75	0551 H21 75.02 −14.44 55.03	0560 I21 81.07 −23.59 60.3	0569 J21 39.55 65.06 44.89
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 −3.97 37.31	0552 H22 75.66 −13.12 42.59	0561 I22 81.71 −22.26 47.86	0570 J22 39.58 66.37 34.28
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 −2.65 24.87	0553 H23 76.31 −11.79 30.15	0562 I23 82.36 −20.94 35.42	0571 J23 39.61 67.68 23.68
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 −1.32 12.43	0554 H24 76.96 −10.47 17.71	0563 I24 83.01 −19.61 22.98	0572 J24 39.64 68.99 13.07
25	0492 A25 34.02 61.37 −6.96	0501 B25 40.27 51.15 −5.8	0510 C25 46.53 40.92 −4.64	0519 D25 52.79 30.69 −3.48	0528 E25 59.04 20.46 −2.32	0537 F25 65.3 10.23 −1.16	0546 G25 71.56 0.0 −0.01	0555 H25 77.61 −9.14 5.27	0564 I25 83.66 −18.29 10.54	0573 J25 39.66 70.3 2.47
26	0493 A26 36.08 67.1 −13.99	0502 B26 42.33 56.88 −12.83	0511 C26 48.59 46.65 −11.67	0520 D26 54.85 36.42 −10.51	0529 E26 61.1 26.19 −9.35	0538 F26 67.36 15.96 −8.18	0547 G26 73.61 5.73 −7.02	0556 H26 78.66 −4.13 −5.92	0565 I26 84.71 −13.28 −0.65	0574 J26 39.69 71.61 −8.12
27	0494 A27 38.14 72.83 −21.01	0503 B27 44.39 62.61 −19.85	0512 C27 50.65 52.38 −18.69	0521 D27 56.9 42.14 −17.53	0530 E27 63.16 31.91 −16.37	0539 F27 69.41 21.68 −15.21	0548 G27 75.67 11.45 −14.04	0557 H27 80.72 1.58 −12.94	0566 I27 85.77 −8.27 −11.84	0575 J27 41.75 77.33 −15.14

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.28 −1.32 12.42	0099 L01 17.34 −10.47 17.7	0108 M01 23.39 −19.62 22.98	0117 N01 29.45 −28.77 28.25	0126 O01 35.5 −37.91 33.53	0135 P01 41.56 −47.06 38.81	0144 Q01 47.61 −56.21 44.08	0153 R01 53.66 −65.35 49.35	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87
02	0091 K02 11.94 0.0 −0.01	0100 L02 17.99 −9.14 5.27	0109 M02 24.04 −18.29 10.55	0118 N02 30.1 −27.44 15.82	0127 O02 36.15 −36.59 21.1	0136 P02 42.21 −45.74 26.38	0145 Q02 48.26 −54.89 31.65	0154 R02 54.31 −64.03 36.92	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44
03	0092 K03 13.99 5.73 −7.02	0101 L03 19.04 −4.13 −5.92	0110 M03 25.09 −13.28 −0.65	0119 N03 31.15 −22.43 4.62	0128 O03 37.2 −31.58 9.9	0137 P03 43.26 −40.73 15.17	0146 Q03 49.31 −49.88 20.45	0155 R03 55.36 −59.02 25.72	0164 S03 11.35 20.45 −2.32	0173 T03 17.6 10.23 −1.16
04	0093 K04 16.05 11.46 −14.05	0102 L04 21.1 1.59 −12.95	0111 M04 26.15 −8.27 −11.85	0120 N04 32.2 −17.42 −6.57	0129 O04 38.26 −26.57 −1.3	0138 P04 44.31 −35.72 3.97	0147 Q04 50.37 −44.87 9.25	0156 R04 56.42 −54.01 14.52	0165 S04 13.41 26.18 −9.34	0174 T04 19.66 15.96 −8.18
05	0094 K05 18.11 17.19 −21.08	0103 L05 23.16 7.32 −19.98	0112 M05 28.21 −2.54 −18.88	0121 N05 33.26 −12.41 −17.77	0130 O05 39.31 −21.56 −12.5	0139 P05 45.37 −30.71 −7.22	0148 Q05 51.42 −39.86 −1.94	0157 R05 57.47 −49.0 3.32	0166 S05 15.47 31.91 −16.37	0175 T05 21.72 21.69 −15.21
06	0095 K06 20.17 22.92 −28.11	0104 L06 25.22 13.05 −27.0	0113 M06 30.27 3.18 −25.9	0122 N06 35.32 −6.68 −24.8	0131 O06 40.37 −16.55 −23.7	0140 P06 46.42 −25.7 −18.42	0149 Q06 52.48 −34.85 −13.15	0158 R06 58.53 −43.99 −7.88	0167 S06 17.52 37.64 −23.4	0176 T06 23.78 27.42 −22.24
07	0096 K07 22.22 28.65 −35.13	0105 L07 27.27 18.78 −34.03	0114 M07 32.32 8.91 −32.93	0123 N07 37.37 −0.95 −31.83	0132 O07 42.42 −10.82 −30.73	0141 P07 47.47 −20.69 −29.63	0150 Q07 53.53 −29.84 −24.35	0159 R07 59.58 −38.98 −19.08	0168 S07 19.58 43.37 −30.43	0177 T07 25.83 33.15 −29.27
08	0097 K08 24.28 34.38 −42.16	0106 L08 29.33 24.51 −41.06	0115 M08 34.38 14.64 −39.96	0124 N08 39.43 4.77 −38.86	0133 O08 44.48 −5.09 −37.76	0142 P08 49.53 −14.96 −36.65	0151 Q08 54.58 −24.83 −35.55	0160 R08 60.63 −33.97 −30.28	0169 S08 21.64 49.1 −37.45	0178 T08 27.89 38.88 −36.29
09	0098 K09 26.34 40.1 −49.18	0107 L09 31.39 30.23 −48.08	0116 M09 36.44 20.36 −46.98	0125 N09 41.49 10.49 −45.88	0134 O09 46.54 0.63 −44.78	0143 P09 51.59 −9.23 −43.68	0152 Q09 56.64 −19.1 −42.57	0161 R09 61.69 −28.96 −41.47	0170 S09 23.7 54.82 −44.48	0179 T09 29.95 44.6 −43.32
10	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 −5.29 49.74	0369 O10 51.17 −14.44 55.02	0378 P10 57.22 −23.59 60.29	0387 Q10 63.28 −32.74 65.57	0396 R10 69.33 −41.88 70.84	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19
11	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 −3.97 37.31	0370 O11 51.81 −13.12 42.59	0379 P11 57.87 −22.27 47.86	0388 Q11 63.92 −31.42 53.14	0397 R11 69.97 −40.56 58.41	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77
12	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 −2.65 24.87	0371 O12 52.46 −11.79 30.15	0380 P12 58.52 −20.94 35.43	0389 Q12 64.57 −30.09 40.7	0398 R12 70.62 −39.23 45.97	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16
13	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 −1.32 12.43	0372 O13 53.11 −10.47 17.71	0381 P13 59.17 −19.62 22.99	0390 Q13 65.22 −28.77 28.26	0399 R13 71.27 −37.91 33.53	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56
14	0337 K14 28.94 30.69 −3.48	0346 L14 35.19 20.46 −2.32	0355 M14 41.45 10.23 −1.16	0364 N14 47.71 0.0 −0.01	0373 O14 53.76 −9.14 5.27	0382 P14 59.82 −18.29 10.55	0391 Q14 65.87 −27.44 15.82	0400 R14 71.92 −36.58 21.1	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95
15	0338 K15 31.0 36.42 −10.51	0347 L15 37.25 26.19 −9.35	0356 M15 43.51 15.96 −8.18	0365 N15 49.76 5.73 −7.02	0374 O15 54.81 −4.13 −5.92	0383 P15 60.87 −13.28 −0.65	0392 Q15 66.92 −22.43 4.62	0401 R15 72.97 −31.57 9.89	0410 S15 28.35 51.14 −5.8	0419 T15 34.61 40.92 −4.64
16	0339 K16 33.05 42.15 −17.53	0348 L16 39.31 31.92 −16.37	0357 M16 45.57 21.69 −15.21	0366 N16 51.82 11.46 −14.05	0375 O16 56.87 1.59 −12.95	0384 P16 61.92 −8.27 −11.85	0393 Q16 67.98 −17.42 −6.57	0402 R16 74.03 −26.56 −1.3	0411 S16 30.41 56.87 −12.83	0420 T16 36.66 46.65 −11.67
17	0340 K17 35.11 47.88 −24.56	0349 L17 41.37 37.65 −23.4	0358 M17 47.63 27.42 −22.24	0367 N17 53.88 17.19 −21.08	0376 O17 58.93 7.32 −19.98	0385 P17 63.98 −2.54 −18.88	0394 Q17 69.03 −12.41 −17.77	0403 R17 75.08 −21.55 −12.5	0412 S17 32.47 62.6 −19.86	0421 T17 38.72 52.38 −18.7
18	0341 K18 37.17 53.6 −31.58	0350 L18 43.43 43.37 −30.42	0359 M18 49.68 33.14 −29.26	0368 N18 55.94 22.91 −28.1	0377 O18 60.99 13.04 −27.0	0386 P18 66.04 3.17 −25.9	0395 Q18 71.09 −6.69 −24.8	0404 R18 76.13 −16.55 −23.7	0413 S18 34.53 68.33 −26.88	0422 T18 40.78 58.11 −25.72
19	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 −9.27 87.06	0639 R19 84.99 −18.41 92.33	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51
20	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 −7.95 74.63	0640 R20 85.64 −17.09 79.9	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08
21	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 −6.62 62.19	0641 R21 86.29 −15.76 67.46	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48
22	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 −5.3 49.75	0642 R22 86.94 −14.44 55.02	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88
23	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 −3.97 37.31	0643 R23 87.58 −13.11 42.58	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27
24	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 −2.65 24.87	0644 R24 88.23 −11.79 30.14	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67
25	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 −1.32 12.43	0645 R25 88.88 −10.46 17.71	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07
26	0583 K26 45.94 61.38 −6.96	0592 L26 52.2 51.15 −5.8	0601 M26 58.46 40.92 −4.64	0610 N26 64.71 30.69 −3.48	0619 O26 70.97 20.46 −2.32	0628 P26 77.22 10.23 −1.16	0637 Q26 83.49 0.0 −0.01	0646 R26 89.53 −9.14 5.27	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46
27	0584 K27 48.0 67.11 −13.98	0593 L27 54.26 56.88 −12.82	0602 M27 60.51 46.65 −11.66	0611 N27 66.77 36.41 −10.5	0620 O27 73.02 26.18 −9.34	0629 P27 79.28 15.95 −8.18	0638 Q27 85.54 5.72 −7.02	0647 R27 90.58 −4.13 −5.92	0656 S27 45.36 81.83 −9.28	0665 T27 51.61 71.61 −8.12

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 22.56 −2.64 24.86	0189 V01 28.61 −11.79 30.14	0198 W01 34.67 −20.94 35.42	0207 X01 40.72 −30.09 40.69	0216 Y01 46.78 −39.24 45.97	0225 Z01 52.83 −48.39 51.24	0234 a01 58.88 −57.53 56.52	0729 b01 95.4 0.0 −0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87
02	0181 U02 23.21 −1.32 12.43	0190 V02 29.26 −10.47 17.71	0199 W02 35.32 −19.62 22.99	0208 X02 41.37 −28.77 28.26	0217 Y02 47.43 −37.92 33.54	0226 Z02 53.48 −47.06 38.82	0235 a02 59.53 −56.21 44.09	0730 b02 90.58 −4.13 −5.92	0739 c02 83.49 0.0 −0.01	0748 d02 77.2 8.92 9.44
03	0182 U03 23.86 0.0 −0.01	0191 V03 29.91 −9.14 5.27	0200 W03 35.96 −18.29 10.55	0209 X03 42.02 −27.44 15.82	0218 Y03 48.08 −36.59 21.1	0227 Z03 54.13 −45.74 26.38	0236 a03 60.18 −54.88 31.65	0731 b03 85.77 −8.27 −11.84	0740 c03 78.66 −4.13 −5.92	0749 d03 71.56 0.0 −0.01
04	0183 U04 25.91 5.73 −7.02	0192 V04 30.96 −4.13 −5.92	0201 W04 37.02 −13.28 −0.65	0210 X04 43.07 −22.43 4.62	0219 Y04 49.13 −31.58 9.9	0228 Z04 55.18 −40.73 15.17	0237 a04 61.23 −49.87 20.45	0732 b04 80.95 −12.41 −17.77	0741 c04 73.85 −8.27 −11.85	0750 d04 66.74 −4.13 −5.92
05	0184 U05 27.97 11.46 −14.05	0193 V05 33.02 1.59 −12.95	0202 W05 38.07 −8.27 −11.85	0211 X05 44.13 −17.42 −6.57	0220 Y05 50.18 −26.57 −1.3	0229 Z05 56.24 −35.72 3.97	0238 a05 62.29 −44.86 9.24	0733 b05 76.13 −16.55 −23.7	0742 c05 69.03 −12.41 −17.77	0751 d05 61.92 −8.27 −11.85
06	0185 U06 30.03 17.19 −21.08	0194 V06 35.08 7.32 −19.98	0203 W06 40.13 −2.54 −18.88	0212 X06 45.18 −12.41 −17.77	0221 Y06 51.24 −21.56 −12.5	0230 Z06 57.29 −30.71 −7.22	0239 a06 63.34 −39.85 −1.95	0734 b06 71.32 −20.69 −29.62	0743 c06 64.22 −16.55 −23.7	0752 d06 57.11 −12.41 −17.77
07	0186 U07 32.09 22.92 −28.11	0195 V07 37.14 13.05 −27.0	0204 W07 42.19 3.18 −25.9	0213 X07 47.24 −6.68 −24.8	0222 Y07 52.29 −16.55 −23.7	0231 Z07 58.35 −25.7 −18.42	0240 a07 64.4 −34.84 −13.15	0735 b07 66.5 −24.82 −35.55	0744 c07 59.4 −20.69 −29.63	0753 d07 52.29 −16.55 −23.7
08	0187 U08 34.15 28.65 −35.13	0196 V08 39.2 18.78 −34.03	0205 W08 44.25 8.91 −32.93	0214 X08 49.3 −0.95 −31.83	0223 Y08 54.35 −10.82 −30.73	0232 Z08 59.4 −20.69 −29.63	0241 a08 65.45 −29.83 −24.35	0736 b08 61.69 −28.96 −41.47	0745 c08 54.58 −24.83 −35.55	0754 d08 47.47 −20.69 −29.63
09	0188 U09 36.21 34.37 −42.15	0197 V09 41.26 24.5 −41.05	0206 W09 46.31 14.63 −39.95	0215 X09 51.36 4.76 −38.85	0224 Y09 56.41 −5.09 −37.75	0233 Z09 61.46 −14.96 −36.65	0242 a09 66.5 −24.82 −35.55	0737 b09 56.87 −33.1 −47.4	0746 c09 49.77 −28.96 −41.47	0755 d09 42.66 −24.82 −35.55
10	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 −6.62 62.18	0459 Y10 62.44 −15.77 67.46	0468 Z10 68.5 −24.92 72.73	0477 a10 74.55 −34.06 78.0	0810 b10 95.4 0.0 −0.01	0819 c10 94.75 −1.32 12.42	0828 d10 94.1 −2.64 24.86
11	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 −5.3 49.75	0460 Y11 63.09 −14.44 55.03	0469 Z11 69.15 −23.59 60.3	0478 a11 75.2 −32.73 65.57	0811 b11 85.54 5.72 −7.02	0820 c11 83.49 0.0 −0.01	0829 d11 82.83 −1.32 12.43
12	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 −3.97 37.31	0461 Y12 63.74 −13.12 42.59	0470 Z12 69.79 −22.27 47.86	0479 a12 75.84 −31.41 53.14	0812 b12 75.67 11.45 −14.04	0821 c12 73.61 5.73 −7.02	0830 d12 71.56 0.0 −0.01
13	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 −2.65 24.87	0462 Y13 64.39 −11.79 30.15	0471 Z13 70.44 −20.94 35.43	0480 a13 76.49 −30.08 40.7	0813 b13 65.8 17.18 −21.07	0822 c13 63.75 11.46 −14.05	0831 d13 61.69 5.73 −7.02
14	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 −1.32 12.43	0463 Y14 65.04 −10.47 17.71	0472 Z14 71.09 −19.62 22.99	0481 a14 77.14 −28.76 28.26	0814 b14 55.94 22.91 −28.1	0823 c14 53.88 17.19 −21.08	0832 d14 51.82 11.46 −14.05
15	0428 U15 40.86 30.69 −3.48	0437 V15 47.12 20.46 −2.32	0446 W15 53.37 10.23 −1.16	0455 X15 59.64 0.0 −0.01	0464 Y15 65.69 −9.14 5.27	0473 Z15 71.74 −18.29 10.55	0482 a15 77.79 −27.43 15.82	0815 b15 46.07 28.64 −35.13	0824 c15 44.02 22.92 −28.11	0833 d15 41.96 17.19 −21.08
16	0429 U16 42.92 36.42 −10.51	0438 V16 49.18 26.19 −9.35	0447 W16 55.43 15.96 −8.18	0456 X16 61.69 5.73 −7.02	0465 Y16 66.74 −4.13 −5.92	0474 Z16 72.79 −13.28 −0.65	0483 a16 78.84 −22.42 4.62	0816 b16 36.21 34.37 −42.15	0825 c16 34.15 28.65 −35.13	0834 d16 32.09 22.92 −28.11
17	0430 U17 44.98 42.15 −17.53	0439 V17 51.24 31.92 −16.37	0448 W17 57.49 21.69 −15.21	0457 X17 63.75 11.46 −14.05	0466 Y17 68.8 1.59 −12.95	0475 Z17 73.85 −8.27 −11.85	0484 a17 79.9 −17.41 −6.58	0817 b17 26.34 40.1 −49.18	0826 c17 24.28 34.38 −42.16	0835 d17 22.22 28.65 −35.13
18	0431 U18 47.04 47.87 −24.56	0440 V18 53.29 37.64 −23.39	0449 W18 59.55 27.41 −22.23	0458 X18 65.8 17.18 −21.07	0467 Y18 70.85 7.31 −19.97	0476 Z18 75.9 −2.55 −18.87	0485 a18 80.95 −12.41 −17.77	0818 b18 16.48 45.83 −56.2	0827 c18 14.42 40.1 −49.18	0836 d18 12.37 34.37 −42.15
19	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 −0.35 96.49	0720 a19 90.21 −10.59 99.49	0891 b19 95.4 0.0 −0.01	0900 c19 89.53 −9.14 5.27	0909 d19 83.66 −18.29 10.54
20	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 −9.27 87.06	0892 b20 89.14 10.22 −1.16	0901 c20 83.49 0.0 −0.01	0910 d20 77.61 −9.14 5.27
21	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 −7.94 74.62	0893 b21 82.89 20.45 −2.32	0902 c21 77.22 10.23 −1.16	0911 d21 71.56 0.0 −0.01
22	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 −6.62 62.18	0894 b22 76.63 30.68 −3.48	0903 c22 70.97 20.46 −2.32	0912 d22 65.3 10.23 −1.16
23	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 −5.29 49.74	0895 b23 70.38 40.91 −4.64	0904 c23 64.71 30.69 −3.48	0913 d23 59.04 20.46 −2.32
24	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 −3.97 37.3	0896 b24 64.12 51.14 −5.8	0905 c24 58.46 40.92 −4.64	0914 d24 52.79 30.69 −3.48
25	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 −2.64 24.86	0897 b25 57.86 61.37 −6.96	0906 c25 52.2 51.15 −5.8	0915 d25 46.53 40.92 −4.64
26	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 −1.32 12.42	0898 b26 51.61 71.61 −8.12	0907 c26 45.94 61.38 −6.96	0916 d26 40.27 51.15 −5.8
27	0674 U27 57.86 61.37 −6.96	0683 V27 64.12 51.14 −5.8	0692 W27 70.38 40.91 −4.64	0701 X27 76.63 30.68 −3.48	0710 Y27 82.89 20.45 −2.32	0719 Z27 89.14 10.22 −1.16	0728 a27 95.4 0.0 −0.01	0899 b27 45.36 81.83 −9.28	0908 c27 39.69 71.61 −8.12	0917 d27 34.02 61.37 −6.96

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52	0972 k01 0.02 0.0 −0.01	0981 l01 0.02 0.0 −0.01	0990 m01 0.02 0.0 −0.01	0999 n01 0.02 0.0 −0.01
02	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64	0974 k03 23.86 0.0 −0.01	0983 l03 23.86 0.0 −0.01	0992 m03 23.86 0.0 −0.01	1001 n03 23.86 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 54.81 −4.13 −5.92	0769 f05 47.71 0.0 −0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76	0976 k05 47.71 0.0 −0.01	0985 l05 47.71 0.0 −0.01	0994 m05 47.71 0.0 −0.01	1003 n05 47.71 0.0 −0.01
06	0761 e06 50.0 −8.27 −11.85	0770 f06 42.89 −4.13 −5.92	0779 g06 35.79 0.0 −0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 45.18 −12.41 −17.77	0771 f07 38.07 −8.27 −11.85	0780 g07 30.96 −4.13 −5.92	0789 h07 23.86 0.0 −0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87	0978 k07 71.56 0.0 −0.01	0987 l07 71.56 0.0 −0.01	0996 m07 71.56 0.0 −0.01	1005 n07 71.56 0.0 −0.01
08	0763 e08 40.37 −16.55 −23.7	0772 f08 33.26 −12.41 −17.77	0781 g08 26.15 −8.27 −11.85	0790 h08 19.04 −4.13 −5.92	0799 i08 11.94 0.0 −0.01	0808 j08 5.65 8.91 9.43	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 35.55 −20.69 −29.62	0773 f09 28.44 −16.55 −23.7	0782 g09 21.34 −12.41 −17.77	0791 h09 14.23 −8.27 −11.84	0800 i09 7.12 −4.13 −5.92	0809 j09 0.02 0.0 −0.01	0980 k09 95.4 0.0 −0.01	0989 l09 95.4 0.0 −0.01	0998 m09 95.4 0.0 −0.01	1007 n09 95.4 0.0 −0.01
10	0837 e10 93.45 −3.97 37.3	0846 f10 92.8 −5.29 49.74	0855 g10 92.15 −6.62 62.18	0864 h10 91.5 −7.94 74.62	0873 i10 90.85 −9.27 87.06	0882 j10 90.21 −10.59 99.49	1008 k10 0.02 0.0 −0.01	1024 l10 0.02 0.0 −0.01	1040 m10 0.02 0.0 −0.01	1056 n10 0.02 0.0 −0.01
11	0838 e11 82.18 −2.65 24.87	0847 f11 81.53 −3.97 37.31	0856 g11 80.89 −5.3 49.75	0865 h11 80.24 −6.62 62.19	0874 i11 79.59 −7.95 74.63	0883 j11 78.94 −9.27 87.06	1009 k11 6.37 0.0 −0.01	1025 l11 6.37 0.0 −0.01	1041 m11 6.37 0.0 −0.01	1057 n11 6.37 0.0 −0.01
12	0839 e12 70.91 −1.32 12.43	0848 f12 70.26 −2.65 24.87	0857 g12 69.61 −3.97 37.31	0866 h12 68.96 −5.3 49.75	0875 i12 68.31 −6.62 62.19	0884 j12 67.66 −7.94 74.62	1010 k12 12.73 0.0 −0.01	1026 l12 12.73 0.0 −0.01	1042 m12 12.73 0.0 −0.01	1058 n12 12.73 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 58.98 −1.32 12.43	0858 g13 58.33 −2.65 24.87	0867 h13 57.68 −3.97 37.31	0876 i13 57.03 −5.3 49.75	0885 j13 56.39 −6.62 62.18	1011 k13 19.09 0.0 −0.01	1027 l13 19.09 0.0 −0.01	1043 m13 19.09 0.0 −0.01	1059 n13 19.09 0.0 −0.01
14	0841 e14 49.76 5.73 −7.02	0850 f14 47.71 0.0 −0.01	0859 g14 47.06 −1.32 12.43	0868 h14 46.41 −2.65 24.87	0877 i14 45.76 −3.97 37.31	0886 j14 45.11 −5.29 49.74	1012 k14 25.45 0.0 −0.01	1028 l14 25.45 0.0 −0.01	1044 m14 25.45 0.0 −0.01	1060 n14 25.45 0.0 −0.01
15	0842 e15 39.9 11.46 −14.05	0851 f15 37.84 5.73 −7.02	0860 g15 35.79 0.0 −0.01	0869 h15 35.13 −1.32 12.43	0878 i15 34.48 −2.65 24.87	0887 j15 33.83 −3.97 37.3	1013 k15 31.81 0.0 −0.01	1029 l15 31.81 0.0 −0.01	1045 m15 31.81 0.0 −0.01	1061 n15 31.81 0.0 −0.01
16	0843 e16 30.03 17.19 −21.08	0852 f16 27.97 11.46 −14.05	0861 g16 25.91 5.73 −7.02	0870 h16 23.86 0.0 −0.01	0879 i16 23.21 −1.32 12.43	0888 j16 22.56 −2.64 24.86	1014 k16 38.17 0.0 −0.01	1030 l16 38.17 0.0 −0.01	1046 m16 38.17 0.0 −0.01	1062 n16 38.17 0.0 −0.01
17	0844 e17 20.17 22.92 −28.11	0853 f17 18.11 17.19 −21.08	0862 g17 16.05 11.46 −14.05	0871 h17 13.99 5.73 −7.02	0880 i17 11.94 0.0 −0.01	0889 j17 11.28 −1.32 12.42	1015 k17 44.53 0.0 −0.01	1031 l17 44.53 0.0 −0.01	1047 m17 44.53 0.0 −0.01	1063 n17 44.53 0.0 −0.01
18	0845 e18 10.31 28.64 −35.13	0854 f18 8.25 22.91 −28.1	0863 g18 6.19 17.18 −21.07	0872 h18 4.13 11.45 −14.04	0881 i18 2.07 5.72 −7.02	0890 j18 0.02 0.0 −0.01	1016 k18 50.89 0.0 −0.01	1032 l18 50.89 0.0 −0.01	1048 m18 50.89 0.0 −0.01	1064 n18 50.89 0.0 −0.01
19	0918 e19 77.79 −27.43 15.82	0927 f19 71.92 −36.58 21.1	0936 g19 66.05 −45.73 26.37	0945 h19 60.18 −54.88 31.65	0954 i19 54.31 −64.03 36.92	0963 j19 48.44 −73.17 42.2	1017 k19 57.25 0.0 −0.01	1033 l19 57.25 0.0 −0.01	1049 m19 57.25 0.0 −0.01	1065 n19 57.25 0.0 −0.01
20	0919 e20 71.74 −18.29 10.55	0928 f20 65.87 −27.44 15.82	0937 g20 60.0 −36.59 21.1	0946 h20 54.13 −45.74 26.38	0955 i20 48.26 −54.89 31.65	0964 j20 42.39 −64.03 36.92	1018 k20 63.61 0.0 −0.01	1034 l20 63.61 0.0 −0.01	1050 m20 63.61 0.0 −0.01	1066 n20 63.61 0.0 −0.01
21	0920 e21 65.69 −9.14 5.27	0929 f21 59.82 −18.29 10.55	0938 g21 53.95 −27.44 15.82	0947 h21 48.08 −36.59 21.1	0956 i21 42.21 −45.74 26.38	0965 j21 36.34 −54.88 31.65	1019 k21 69.97 0.0 −0.01	1035 l21 69.97 0.0 −0.01	1051 m21 69.97 0.0 −0.01	1067 n21 69.97 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 53.76 −9.14 5.27	0939 g22 47.89 −18.29 10.55	0948 h22 42.02 −27.44 15.82	0957 i22 36.15 −36.59 21.1	0966 j22 30.28 −45.73 26.37	1020 k22 76.33 0.0 −0.01	1036 l22 76.33 0.0 −0.01	1052 m22 76.33 0.0 −0.01	1068 n22 76.33 0.0 −0.01
23	0922 e23 53.37 10.23 −1.16	0931 f23 47.71 0.0 −0.01	0940 g23 41.84 −9.14 5.27	0949 h23 35.96 −18.29 10.55	0958 i23 30.1 −27.44 15.82	0967 j23 24.23 −36.58 21.1	1021 k23 82.69 0.0 −0.01	1037 l23 82.69 0.0 −0.01	1053 m23 82.69 0.0 −0.01	1069 n23 82.69 0.0 −0.01
24	0923 e24 47.12 20.46 −2.32	0932 f24 41.45 10.23 −1.16	0941 g24 35.79 0.0 −0.01	0950 h24 29.91 −9.14 5.27	0959 i24 24.04 −18.29 10.55	0968 j24 18.17 −27.43 15.82	1022 k24 89.05 0.0 −0.01	1038 l24 89.05 0.0 −0.01	1054 m24 89.05 0.0 −0.01	1070 n24 89.05 0.0 −0.01
25	0924 e25 40.86 30.69 −3.48	0933 f25 35.19 20.46 −2.32	0942 g25 29.52 10.23 −1.16	0951 h25 23.86 0.0 −0.01	0960 i25 17.99 −9.14 5.27	0969 j25 12.12 −18.29 10.54	1023 k25 95.4 0.0 −0.01	1039 l25 95.4 0.0 −0.01	1055 m25 95.4 0.0 −0.01	1071 n25 95.4 0.0 −0.01
26	0925 e26 34.61 40.92 −4.64	0934 f26 28.94 30.69 −3.48	0943 g26 23.27 20.46 −2.32	0952 h26 17.6 10.23 −1.16	0961 i26 11.94 0.0 −0.01	0970 j26 6.06 −9.14 5.27	1072 k26 0.02 0.0 −0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 −10.59 99.49	1078 n26 48.44 −73.17 42.2
27	0926 e27 28.35 51.14 −5.8	0935 f27 22.69 40.91 −4.64	0944 g27 17.02 30.68 −3.48	0953 h27 11.35 20.45 −2.32	0962 i27 5.68 10.22 −1.16	0971 j27 0.02 0.0 −0.01	1073 k27 95.4 0.0 −0.01	1075 l27 56.87 −33.1 −47.4	1077 m27 16.48 45.83 −56.2	1079 n27 45.36 81.83 −9.28

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 24/4, OLS18

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF
application for evaluation and measurement of printer or monitor systems
BAM material: code=rha4ta

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.02 0.0 −0.01	0009 B01 6.06 −9.14 5.27	0018 C01 12.12 −18.29 10.54	0027 D01 18.17 −27.43 15.82	0036 E01 24.23 −36.58 21.1	0045 F01 30.28 −45.73 26.37	0054 G01 36.34 −54.88 31.65	0063 H01 42.39 −64.03 36.92	0072 I01 48.44 −73.17 42.2	0081 J01 5.65 8.91 9.43
02	0001 A02 2.07 5.72 −7.02	0010 B02 7.12 −4.13 −5.92	0019 C02 13.17 −13.28 −0.64	0028 D02 19.23 −22.43 4.63	0037 E02 25.28 −31.58 9.9	0046 F02 31.34 −40.73 15.18	0055 G02 37.39 −49.87 20.45	0064 H02 43.45 −59.02 25.73	0073 I02 49.5 −68.16 31.0	0082 J02 5.68 10.22 −1.16
03	0002 A03 4.13 11.45 −14.04	0011 B03 9.18 1.59 −12.94	0020 C03 14.23 −8.27 −11.84	0029 D03 20.28 −17.42 −6.57	0038 E03 26.34 −26.57 −1.29	0047 F03 32.39 −35.72 3.98	0056 G03 38.45 −44.86 9.25	0065 H03 44.5 −54.01 14.53	0074 I03 50.55 −63.15 19.8	0083 J03 7.74 15.95 −8.18
04	0003 A04 6.19 17.18 −21.07	0012 B04 11.24 7.32 −19.97	0021 C04 16.29 −2.54 −18.87	0030 D04 21.34 −12.41 −17.77	0039 E04 27.39 −21.56 −12.49	0048 F04 33.45 −30.71 −7.22	0057 G04 39.5 −39.85 −1.94	0066 H04 45.56 −49.0 3.33	0075 I04 51.61 −58.14 8.6	0084 J04 9.8 21.68 −15.21
05	0004 A05 8.25 22.91 −28.1	0013 B05 13.29 13.05 −27.0	0022 C05 18.34 3.18 −25.9	0031 D05 23.39 −6.68 −24.8	0040 E05 28.44 −16.55 −23.7	0049 F05 34.5 −25.7 −18.42	0058 G05 40.55 −34.84 −13.14	0067 H05 46.61 −43.99 −7.87	0076 I05 52.66 −53.13 −2.59	0085 J05 11.86 27.41 −22.24
06	0005 A06 10.31 28.64 −35.13	0014 B06 15.35 18.78 −34.03	0023 C06 20.4 8.91 −32.93	0032 D06 25.45 −0.95 −31.82	0041 E06 30.5 −10.82 −30.72	0050 F06 35.55 −20.69 −29.62	0059 G06 41.61 −29.83 −24.35	0068 H06 47.66 −38.98 −19.07	0077 I06 53.71 −48.12 −13.8	0086 J06 13.91 33.14 −29.27
07	0006 A07 12.37 34.37 −42.15	0015 B07 17.41 24.51 −41.05	0024 C07 22.46 14.64 −39.95	0033 D07 27.51 4.77 −38.85	0042 E07 32.56 −5.09 −37.75	0051 F07 37.61 −14.96 −36.65	0060 G07 42.66 −24.82 −35.55	0069 H07 48.72 −33.97 −30.27	0078 I07 54.77 −43.11 −25.0	0087 J07 15.97 38.87 −36.29
08	0007 A08 14.42 40.1 −49.18	0016 B08 19.47 30.24 −48.08	0025 C08 24.52 20.37 −46.98	0034 D08 29.57 10.5 −45.88	0043 E08 34.62 0.63 −44.78	0052 F08 39.67 −9.23 −43.68	0061 G08 44.72 −19.09 −42.58	0070 H08 49.77 −28.96 −41.47	0079 I08 55.82 −38.1 −36.2	0088 J08 18.03 44.6 −43.32
09	0008 A09 16.48 45.83 −56.2	0017 B09 21.53 35.96 −55.1	0026 C09 26.58 26.1 −54.0	0035 D09 31.63 16.23 −52.9	0044 E09 36.68 6.36 −51.8	0053 F09 41.73 −3.5 −50.7	0062 G09 46.78 −13.37 −49.6	0071 H09 51.83 −23.24 −48.5	0080 I09 56.87 −33.1 −47.4	0089 J09 20.09 50.32 −50.34
10	0243 A10 16.93 26.75 28.31	0252 B10 22.56 16.51 31.31	0261 C10 28.2 6.27 34.31	0270 D10 33.83 −3.97 37.3	0279 E10 39.89 −13.12 42.58	0288 F10 45.94 −22.27 47.85	0297 G10 52.0 −31.42 53.13	0306 H10 58.05 −40.56 58.41	0315 I10 64.1 −49.71 63.68	0324 J10 22.58 35.67 37.76
11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 −2.65 24.87	0280 E11 40.54 −11.79 30.15	0289 F11 46.59 −20.94 35.43	0298 G11 52.65 −30.09 40.7	0307 H11 58.7 −39.24 45.98	0316 I11 64.75 −48.38 51.25	0325 J11 22.6 36.98 27.16
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 −1.32 12.43	0281 E12 41.19 −10.47 17.71	0290 F12 47.24 −19.62 22.99	0299 G12 53.3 −28.77 28.26	0308 H12 59.35 −37.92 33.54	0317 I12 65.4 −47.06 38.81	0326 J12 22.63 38.29 16.56
13	0246 A13 17.02 30.68 −3.48	0255 B13 23.27 20.46 −2.32	0264 C13 29.52 10.23 −1.16	0273 D13 35.79 0.0 −0.01	0282 E13 41.84 −9.14 5.27	0291 F13 47.89 −18.29 10.55	0300 G13 53.95 −27.44 15.82	0309 H13 60.0 −36.59 21.1	0318 I13 66.05 −45.73 26.37	0327 J13 22.66 39.6 5.95
14	0247 A14 19.08 36.41 −10.51	0256 B14 25.33 26.19 −9.35	0265 C14 31.58 15.96 −8.18	0274 D14 37.84 5.73 −7.02	0283 E14 42.89 −4.13 −5.92	0292 F14 48.94 −13.28 −0.65	0301 G14 55.0 −22.43 4.62	0310 H14 61.05 −31.58 9.9	0319 I14 67.1 −40.72 15.17	0328 J14 22.69 40.91 −4.64
15	0248 A15 21.13 42.14 −17.53	0257 B15 27.39 31.92 −16.37	0266 C15 33.64 21.69 −15.21	0275 D15 39.9 11.46 −14.05	0284 E15 44.95 1.59 −12.95	0293 F15 50.0 −8.27 −11.85	0302 G15 56.05 −17.42 −6.57	0311 H15 62.11 −26.57 −1.3	0320 I15 68.16 −35.71 3.97	0329 J15 24.74 46.64 −11.67
16	0249 A16 23.19 47.87 −24.56	0258 B16 29.44 37.65 −23.4	0267 C16 35.7 27.42 −22.24	0276 D16 41.96 17.19 −21.08	0285 E16 47.01 7.32 −19.98	0294 F16 52.06 −2.54 −18.88	0303 G16 57.11 −12.41 −17.77	0312 H16 63.16 −21.56 −12.5	0321 I16 69.21 −30.7 −7.23	0330 J16 26.8 52.37 −18.69
17	0250 A17 25.25 53.6 −31.59	0259 B17 31.5 43.38 −30.43	0268 C17 37.76 33.15 −29.27	0277 D17 44.02 22.92 −28.11	0286 E17 49.07 13.05 −27.0	0295 F17 54.12 3.18 −25.9	0304 G17 59.17 −6.68 −24.8	0313 H17 64.22 −16.55 −23.7	0322 I17 70.27 −25.69 −18.43	0331 J17 28.86 58.1 −25.72
18	0251 A18 27.31 59.33 −38.61	0260 B18 33.56 49.1 −37.45	0269 C18 39.82 38.87 −36.29	0278 D18 46.07 28.64 −35.13	0287 E18 51.12 18.77 −34.03	0296 F18 56.17 8.9 −32.92	0305 G18 61.22 −0.96 −31.82	0314 H18 66.27 −10.82 −30.72	0323 I18 71.32 −20.69 −29.62	0332 J18 30.92 63.83 −32.74
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 −7.94 74.62	0549 H19 73.72 −17.09 79.89	0558 I19 79.77 −26.23 85.17	0567 J19 39.5 62.44 66.08
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 −6.62 62.19	0550 H20 74.37 −15.77 67.47	0559 I20 80.42 −24.91 72.74	0568 J20 39.53 63.75 55.49
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 −5.3 49.75	0551 H21 75.02 −14.44 55.03	0560 I21 81.07 −23.59 60.3	0569 J21 39.55 65.06 44.89
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 −3.97 37.31	0552 H22 75.66 −13.12 42.59	0561 I22 81.71 −22.26 47.86	0570 J22 39.58 66.37 34.28
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 −2.65 24.87	0553 H23 76.31 −11.79 30.15	0562 I23 82.36 −20.94 35.42	0571 J23 39.61 67.68 23.68
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 −1.32 12.43	0554 H24 76.96 −10.47 17.71	0563 I24 83.01 −19.61 22.98	0572 J24 39.64 68.99 13.07
25	0492 A25 34.02 61.37 −6.96	0501 B25 40.27 51.15 −5.8	0510 C25 46.53 40.92 −4.64	0519 D25 52.79 30.69 −3.48	0528 E25 59.04 20.46 −2.32	0537 F25 65.3 10.23 −1.16	0546 G25 71.56 0.0 −0.01	0555 H25 77.61 −9.14 5.27	0564 I25 83.66 −18.29 10.54	0573 J25 39.66 70.3 2.47
26	0493 A26 36.08 67.1 −13.99	0502 B26 42.33 56.88 −12.83	0511 C26 48.59 46.65 −11.67	0520 D26 54.85 36.42 −10.51	0529 E26 61.1 26.19 −9.35	0538 F26 67.36 15.96 −8.18	0547 G26 73.61 5.73 −7.02	0556 H26 78.66 −4.13 −5.92	0565 I26 84.71 −13.28 −0.65	0574 J26 39.69 71.61 −8.12
27	0494 A27 38.14 72.83 −21.01	0503 B27 44.39 62.61 −19.85	0512 C27 50.65 52.38 −18.69	0521 D27 56.9 42.14 −17.53	0530 E27 63.16 31.91 −16.37	0539 F27 69.41 21.68 −15.21	0548 G27 75.67 11.45 −14.04	0557 H27 80.72 1.58 −12.94	0566 I27 85.77 −8.27 −11.84	0575 J27 41.75 77.33 −15.14

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.28 −1.32 12.42	0099 L01 17.34 −10.47 17.7	0108 M01 23.39 −19.62 22.98	0117 N01 29.45 −28.77 28.25	0126 O01 35.5 −37.91 33.53	0135 P01 41.56 −47.06 38.81	0144 Q01 47.61 −56.21 44.08	0153 R01 53.66 −65.35 49.35	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87
02	0091 K02 11.94 0.0 −0.01	0100 L02 17.99 −9.14 5.27	0109 M02 24.04 −18.29 10.55	0118 N02 30.1 −27.44 15.82	0127 O02 36.15 −36.59 21.1	0136 P02 42.21 −45.74 26.38	0145 Q02 48.26 −54.89 31.65	0154 R02 54.31 −64.03 36.92	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44
03	0092 K03 13.99 5.73 −7.02	0101 L03 19.04 −4.13 −5.92	0110 M03 25.09 −13.28 −0.65	0119 N03 31.15 −22.43 4.62	0128 O03 37.2 −31.58 9.9	0137 P03 43.26 −40.73 15.17	0146 Q03 49.31 −49.88 20.45	0155 R03 55.36 −59.02 25.72	0164 S03 11.35 20.45 −2.32	0173 T03 17.6 10.23 −1.16
04	0093 K04 16.05 11.46 −14.05	0102 L04 21.1 1.59 −12.95	0111 M04 26.15 −8.27 −11.85	0120 N04 32.2 −17.42 −6.57	0129 O04 38.26 −26.57 −1.3	0138 P04 44.31 −35.72 3.97	0147 Q04 50.37 −44.87 9.25	0156 R04 56.42 −54.01 14.52	0165 S04 13.41 26.18 −9.34	0174 T04 19.66 15.96 −8.18
05	0094 K05 18.11 17.19 −21.08	0103 L05 23.16 7.32 −19.98	0112 M05 28.21 −2.54 −18.88	0121 N05 33.26 −12.41 −17.77	0130 O05 39.31 −21.56 −12.5	0139 P05 45.37 −30.71 −7.22	0148 Q05 51.42 −39.86 −1.94	0157 R05 57.47 −49.0 3.32	0166 S05 15.47 31.91 −16.37	0175 T05 21.72 21.69 −15.21
06	0095 K06 20.17 22.92 −28.11	0104 L06 25.22 13.05 −27.0	0113 M06 30.27 3.18 −25.9	0122 N06 35.32 −6.68 −24.8	0131 O06 40.37 −16.55 −23.7	0140 P06 46.42 −25.7 −18.42	0149 Q06 52.48 −34.85 −13.15	0158 R06 58.53 −43.99 −7.88	0167 S06 17.52 37.64 −23.4	0176 T06 23.78 27.42 −22.24
07	0096 K07 22.22 28.65 −35.13	0105 L07 27.27 18.78 −34.03	0114 M07 32.32 8.91 −32.93	0123 N07 37.37 −0.95 −31.83	0132 O07 42.42 −10.82 −30.73	0141 P07 47.47 −20.69 −29.63	0150 Q07 53.53 −29.84 −24.35	0159 R07 59.58 −38.98 −19.08	0168 S07 19.58 43.37 −30.43	0177 T07 25.83 33.15 −29.27
08	0097 K08 24.28 34.38 −42.16	0106 L08 29.33 24.51 −41.06	0115 M08 34.38 14.64 −39.96	0124 N08 39.43 4.77 −38.86	0133 O08 44.48 −5.09 −37.76	0142 P08 49.53 −14.96 −36.65	0151 Q08 54.58 −24.83 −35.55	0160 R08 60.63 −33.97 −30.28	0169 S08 21.64 49.1 −37.45	0178 T08 27.89 38.88 −36.29
09	0098 K09 26.34 40.1 −49.18	0107 L09 31.39 30.23 −48.08	0116 M09 36.44 20.36 −46.98	0125 N09 41.49 10.49 −45.88	0134 O09 46.54 0.63 −44.78	0143 P09 51.59 −9.23 −43.68	0152 Q09 56.64 −19.1 −42.57	0161 R09 61.69 −28.96 −41.47	0170 S09 23.7 54.82 −44.48	0179 T09 29.95 44.6 −43.32
10	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 −5.29 49.74	0369 O10 51.17 −14.44 55.02	0378 P10 57.22 −23.59 60.29	0387 Q10 63.28 −32.74 65.57	0396 R10 69.33 −41.88 70.84	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19
11	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 −3.97 37.31	0370 O11 51.81 −13.12 42.59	0379 P11 57.87 −22.27 47.86	0388 Q11 63.92 −31.42 53.14	0397 R11 69.97 −40.56 58.41	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77
12	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 −2.65 24.87	0371 O12 52.46 −11.79 30.15	0380 P12 58.52 −20.94 35.43	0389 Q12 64.57 −30.09 40.7	0398 R12 70.62 −39.23 45.97	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16
13	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 −1.32 12.43	0372 O13 53.11 −10.47 17.71	0381 P13 59.17 −19.62 22.99	0390 Q13 65.22 −28.77 28.26	0399 R13 71.27 −37.91 33.53	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56
14	0337 K14 28.94 30.69 −3.48	0346 L14 35.19 20.46 −2.32	0355 M14 41.45 10.23 −1.16	0364 N14 47.71 0.0 −0.01	0373 O14 53.76 −9.14 5.27	0382 P14 59.82 −18.29 10.55	0391 Q14 65.87 −27.44 15.82	0400 R14 71.92 −36.58 21.1	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95
15	0338 K15 31.0 36.42 −10.51	0347 L15 37.25 26.19 −9.35	0356 M15 43.51 15.96 −8.18	0365 N15 49.76 5.73 −7.02	0374 O15 54.81 −4.13 −5.92	0383 P15 60.87 −13.28 −0.65	0392 Q15 66.92 −22.43 4.62	0401 R15 72.97 −31.57 9.89	0410 S15 28.35 51.14 −5.8	0419 T15 34.61 40.92 −4.64
16	0339 K16 33.05 42.15 −17.53	0348 L16 39.31 31.92 −16.37	0357 M16 45.57 21.69 −15.21	0366 N16 51.82 11.46 −14.05	0375 O16 56.87 1.59 −12.95	0384 P16 61.92 −8.27 −11.85	0393 Q16 67.98 −17.42 −6.57	0402 R16 74.03 −26.56 −1.3	0411 S16 30.41 56.87 −12.83	0420 T16 36.66 46.65 −11.67
17	0340 K17 35.11 47.88 −24.56	0349 L17 41.37 37.65 −23.4	0358 M17 47.63 27.42 −22.24	0367 N17 53.88 17.19 −21.08	0376 O17 58.93 7.32 −19.98	0385 P17 63.98 −2.54 −18.88	0394 Q17 69.03 −12.41 −17.77	0403 R17 75.08 −21.55 −12.5	0412 S17 32.47 62.6 −19.86	0421 T17 38.72 52.38 −18.7
18	0341 K18 37.17 53.6 −31.58	0350 L18 43.43 43.37 −30.42	0359 M18 49.68 33.14 −29.26	0368 N18 55.94 22.91 −28.1	0377 O18 60.99 13.04 −27.0	0386 P18 66.04 3.17 −25.9	0395 Q18 71.09 −6.69 −24.8	0404 R18 76.13 −16.55 −23.7	0413 S18 34.53 68.33 −26.88	0422 T18 40.78 58.11 −25.72
19	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 −9.27 87.06	0639 R19 84.99 −18.41 92.33	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51
20	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 −7.95 74.63	0640 R20 85.64 −17.09 79.9	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08
21	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 −6.62 62.19	0641 R21 86.29 −15.76 67.46	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48
22	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 −5.3 49.75	0642 R22 86.94 −14.44 55.02	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88
23	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 −3.97 37.31	0643 R23 87.58 −13.11 42.58	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27
24	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 −2.65 24.87	0644 R24 88.23 −11.79 30.14	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67
25	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 −1.32 12.43	0645 R25 88.88 −10.46 17.71	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07
26	0583 K26 45.94 61.38 −6.96	0592 L26 52.2 51.15 −5.8	0601 M26 58.46 40.92 −4.64	0610 N26 64.71 30.69 −3.48	0619 O26 70.97 20.46 −2.32	0628 P26 77.22 10.23 −1.16	0637 Q26 83.49 0.0 −0.01	0646 R26 89.53 −9.14 5.27	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46
27	0584 K27 48.0 67.11 −13.98	0593 L27 54.26 56.88 −12.82	0602 M27 60.51 46.65 −11.66	0611 N27 66.77 36.41 −10.5	0620 O27 73.02 26.18 −9.34	0629 P27 79.28 15.95 −8.18	0638 Q27 85.54 5.72 −7.02	0647 R27 90.58 −4.13 −5.92	0656 S27 45.36 81.83 −9.28	0665 T27 51.61 71.61 −8.12

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 22.56 −2.64 24.86	0189 V01 28.61 −11.79 30.14	0198 W01 34.67 −20.94 35.42	0207 X01 40.72 −30.09 40.69	0216 Y01 46.78 −39.24 45.97	0225 Z01 52.83 −48.39 51.24	0234 a01 58.88 −57.53 56.52	0729 b01 95.4 0.0 −0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87
02	0181 U02 23.21 −1.32 12.43	0190 V02 29.26 −10.47 17.71	0199 W02 35.32 −19.62 22.99	0208 X02 41.37 −28.77 28.26	0217 Y02 47.43 −37.92 33.54	0226 Z02 53.48 −47.06 38.82	0235 a02 59.53 −56.21 44.09	0730 b02 90.58 −4.13 −5.92	0739 c02 83.49 0.0 −0.01	0748 d02 77.2 8.92 9.44
03	0182 U03 23.86 0.0 −0.01	0191 V03 29.91 −9.14 5.27	0200 W03 35.96 −18.29 10.55	0209 X03 42.02 −27.44 15.82	0218 Y03 48.08 −36.59 21.1	0227 Z03 54.13 −45.74 26.38	0236 a03 60.18 −54.88 31.65	0731 b03 85.77 −8.27 −11.84	0740 c03 78.66 −4.13 −5.92	0749 d03 71.56 0.0 −0.01
04	0183 U04 25.91 5.73 −7.02	0192 V04 30.96 −4.13 −5.92	0201 W04 37.02 −13.28 −0.65	0210 X04 43.07 −22.43 4.62	0219 Y04 49.13 −31.58 9.9	0228 Z04 55.18 −40.73 15.17	0237 a04 61.23 −49.87 20.45	0732 b04 80.95 −12.41 −17.77	0741 c04 73.85 −8.27 −11.85	0750 d04 66.74 −4.13 −5.92
05	0184 U05 27.97 11.46 −14.05	0193 V05 33.02 1.59 −12.95	0202 W05 38.07 −8.27 −11.85	0211 X05 44.13 −17.42 −6.57	0220 Y05 50.18 −26.57 −1.3	0229 Z05 56.24 −35.72 3.97	0238 a05 62.29 −44.86 9.24	0733 b05 76.13 −16.55 −23.7	0742 c05 69.03 −12.41 −17.77	0751 d05 61.92 −8.27 −11.85
06	0185 U06 30.03 17.19 −21.08	0194 V06 35.08 7.32 −19.98	0203 W06 40.13 −2.54 −18.88	0212 X06 45.18 −12.41 −17.77	0221 Y06 51.24 −21.56 −12.5	0230 Z06 57.29 −30.71 −7.22	0239 a06 63.34 −39.85 −1.95	0734 b06 71.32 −20.69 −29.62	0743 c06 64.22 −16.55 −23.7	0752 d06 57.11 −12.41 −17.77
07	0186 U07 32.09 22.92 −28.11	0195 V07 37.14 13.05 −27.0	0204 W07 42.19 3.18 −25.9	0213 X07 47.24 −6.68 −24.8	0222 Y07 52.29 −16.55 −23.7	0231 Z07 58.35 −25.7 −18.42	0240 a07 64.4 −34.84 −13.15	0735 b07 66.5 −24.82 −35.55	0744 c07 59.4 −20.69 −29.63	0753 d07 52.29 −16.55 −23.7
08	0187 U08 34.15 28.65 −35.13	0196 V08 39.2 18.78 −34.03	0205 W08 44.25 8.91 −32.93	0214 X08 49.3 −0.95 −31.83	0223 Y08 54.35 −10.82 −30.73	0232 Z08 59.4 −20.69 −29.63	0241 a08 65.45 −29.83 −24.35	0736 b08 61.69 −28.96 −41.47	0745 c08 54.58 −24.83 −35.55	0754 d08 47.47 −20.69 −29.63
09	0188 U09 36.21 34.37 −42.15	0197 V09 41.26 24.5 −41.05	0206 W09 46.31 14.63 −39.95	0215 X09 51.36 4.76 −38.85	0224 Y09 56.41 −5.09 −37.75	0233 Z09 61.46 −14.96 −36.65	0242 a09 66.5 −24.82 −35.55	0737 b09 56.87 −33.1 −47.4	0746 c09 49.77 −28.96 −41.47	0755 d09 42.66 −24.82 −35.55
10	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 −6.62 62.18	0459 Y10 62.44 −15.77 67.46	0468 Z10 68.5 −24.92 72.73	0477 a10 74.55 −34.06 78.0	0810 b10 95.4 0.0 −0.01	0819 c10 94.75 −1.32 12.42	0828 d10 94.1 −2.64 24.86
11	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 −5.3 49.75	0460 Y11 63.09 −14.44 55.03	0469 Z11 69.15 −23.59 60.3	0478 a11 75.2 −32.73 65.57	0811 b11 85.54 5.72 −7.02	0820 c11 83.49 0.0 −0.01	0829 d11 82.83 −1.32 12.43
12	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 −3.97 37.31	0461 Y12 63.74 −13.12 42.59	0470 Z12 69.79 −22.27 47.86	0479 a12 75.84 −31.41 53.14	0812 b12 75.67 11.45 −14.04	0821 c12 73.61 5.73 −7.02	0830 d12 71.56 0.0 −0.01
13	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 −2.65 24.87	0462 Y13 64.39 −11.79 30.15	0471 Z13 70.44 −20.94 35.43	0480 a13 76.49 −30.08 40.7	0813 b13 65.8 17.18 −21.07	0822 c13 63.75 11.46 −14.05	0831 d13 61.69 5.73 −7.02
14	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 −1.32 12.43	0463 Y14 65.04 −10.47 17.71	0472 Z14 71.09 −19.62 22.99	0481 a14 77.14 −28.76 28.26	0814 b14 55.94 22.91 −28.1	0823 c14 53.88 17.19 −21.08	0832 d14 51.82 11.46 −14.05
15	0428 U15 40.86 30.69 −3.48	0437 V15 47.12 20.46 −2.32	0446 W15 53.37 10.23 −1.16	0455 X15 59.64 0.0 −0.01	0464 Y15 65.69 −9.14 5.27	0473 Z15 71.74 −18.29 10.55	0482 a15 77.79 −27.43 15.82	0815 b15 46.07 28.64 −35.13	0824 c15 44.02 22.92 −28.11	0833 d15 41.96 17.19 −21.08
16	0429 U16 42.92 36.42 −10.51	0438 V16 49.18 26.19 −9.35	0447 W16 55.43 15.96 −8.18	0456 X16 61.69 5.73 −7.02	0465 Y16 66.74 −4.13 −5.92	0474 Z16 72.79 −13.28 −0.65	0483 a16 78.84 −22.42 4.62	0816 b16 36.21 34.37 −42.15	0825 c16 34.15 28.65 −35.13	0834 d16 32.09 22.92 −28.11
17	0430 U17 44.98 42.15 −17.53	0439 V17 51.24 31.92 −16.37	0448 W17 57.49 21.69 −15.21	0457 X17 63.75 11.46 −14.05	0466 Y17 68.8 1.59 −12.95	0475 Z17 73.85 −8.27 −11.85	0484 a17 79.9 −17.41 −6.58	0817 b17 26.34 40.1 −49.18	0826 c17 24.28 34.38 −42.16	0835 d17 22.22 28.65 −35.13
18	0431 U18 47.04 47.87 −24.56	0440 V18 53.29 37.64 −23.39	0449 W18 59.55 27.41 −22.23	0458 X18 65.8 17.18 −21.07	0467 Y18 70.85 7.31 −19.97	0476 Z18 75.9 −2.55 −18.87	0485 a18 80.95 −12.41 −17.77	0818 b18 16.48 45.83 −56.2	0827 c18 14.42 40.1 −49.18	0836 d18 12.37 34.37 −42.15
19	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 −0.35 96.49	0720 a19 90.21 −10.59 99.49	0891 b19 95.4 0.0 −0.01	0900 c19 89.53 −9.14 5.27	0909 d19 83.66 −18.29 10.54
20	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 −9.27 87.06	0892 b20 89.14 10.22 −1.16	0901 c20 83.49 0.0 −0.01	0910 d20 77.61 −9.14 5.27
21	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 −7.94 74.62	0893 b21 82.89 20.45 −2.32	0902 c21 77.22 10.23 −1.16	0911 d21 71.56 0.0 −0.01
22	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 −6.62 62.18	0894 b22 76.63 30.68 −3.48	0903 c22 70.97 20.46 −2.32	0912 d22 65.3 10.23 −1.16
23	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 −5.29 49.74	0895 b23 70.38 40.91 −4.64	0904 c23 64.71 30.69 −3.48	0913 d23 59.04 20.46 −2.32
24	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 −3.97 37.3	0896 b24 64.12 51.14 −5.8	0905 c24 58.46 40.92 −4.64	0914 d24 52.79 30.69 −3.48
25	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 −2.64 24.86	0897 b25 57.86 61.37 −6.96	0906 c25 52.2 51.15 −5.8	0915 d25 46.53 40.92 −4.64
26	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 −1.32 12.42	0898 b26 51.61 71.61 −8.12	0907 c26 45.94 61.38 −6.96	0916 d26 40.27 51.15 −5.8
27	0674 U27 57.86 61.37 −6.96	0683 V27 64.12 51.14 −5.8	0692 W27 70.38 40.91 −4.64	0701 X27 76.63 30.68 −3.48	0710 Y27 82.89 20.45 −2.32	0719 Z27 89.14 10.22 −1.16	0728 a27 95.4 0.0 −0.01	0899 b27 45.36 81.83 −9.28	0908 c27 39.69 71.61 −8.12	0917 d27 34.02 61.37 −6.96

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52	0972 k01 0.02 0.0 −0.01	0981 l01 0.02 0.0 −0.01	0990 m01 0.02 0.0 −0.01	0999 n01 0.02 0.0 −0.01
02	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64	0974 k03 23.86 0.0 −0.01	0983 l03 23.86 0.0 −0.01	0992 m03 23.86 0.0 −0.01	1001 n03 23.86 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 54.81 −4.13 −5.92	0769 f05 47.71 0.0 −0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76	0976 k05 47.71 0.0 −0.01	0985 l05 47.71 0.0 −0.01	0994 m05 47.71 0.0 −0.01	1003 n05 47.71 0.0 −0.01
06	0761 e06 50.0 −8.27 −11.85	0770 f06 42.89 −4.13 −5.92	0779 g06 35.79 0.0 −0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 45.18 −12.41 −17.77	0771 f07 38.07 −8.27 −11.85	0780 g07 30.96 −4.13 −5.92	0789 h07 23.86 0.0 −0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87	0978 k07 71.56 0.0 −0.01	0987 l07 71.56 0.0 −0.01	0996 m07 71.56 0.0 −0.01	1005 n07 71.56 0.0 −0.01
08	0763 e08 40.37 −16.55 −23.7	0772 f08 33.26 −12.41 −17.77	0781 g08 26.15 −8.27 −11.85	0790 h08 19.04 −4.13 −5.92	0799 i08 11.94 0.0 −0.01	0808 j08 5.65 8.91 9.43	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 35.55 −20.69 −29.62	0773 f09 28.44 −16.55 −23.7	0782 g09 21.34 −12.41 −17.77	0791 h09 14.23 −8.27 −11.84	0800 i09 7.12 −4.13 −5.92	0809 j09 0.02 0.0 −0.01	0980 k09 95.4 0.0 −0.01	0989 l09 95.4 0.0 −0.01	0998 m09 95.4 0.0 −0.01	1007 n09 95.4 0.0 −0.01
10	0837 e10 93.45 −3.97 37.3	0846 f10 92.8 −5.29 49.74	0855 g10 92.15 −6.62 62.18	0864 h10 91.5 −7.94 74.62	0873 i10 90.85 −9.27 87.06	0882 j10 90.21 −10.59 99.49	1008 k10 0.02 0.0 −0.01	1024 l10 0.02 0.0 −0.01	1040 m10 0.02 0.0 −0.01	1056 n10 0.02 0.0 −0.01
11	0838 e11 82.18 −2.65 24.87	0847 f11 81.53 −3.97 37.31	0856 g11 80.89 −5.3 49.75	0865 h11 80.24 −6.62 62.19	0874 i11 79.59 −7.95 74.63	0883 j11 78.94 −9.27 87.06	1009 k11 6.37 0.0 −0.01	1025 l11 6.37 0.0 −0.01	1041 m11 6.37 0.0 −0.01	1057 n11 6.37 0.0 −0.01
12	0839 e12 70.91 −1.32 12.43	0848 f12 70.26 −2.65 24.87	0857 g12 69.61 −3.97 37.31	0866 h12 68.96 −5.3 49.75	0875 i12 68.31 −6.62 62.19	0884 j12 67.66 −7.94 74.62	1010 k12 12.73 0.0 −0.01	1026 l12 12.73 0.0 −0.01	1042 m12 12.73 0.0 −0.01	1058 n12 12.73 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 58.98 −1.32 12.43	0858 g13 58.33 −2.65 24.87	0867 h13 57.68 −3.97 37.31	0876 i13 57.03 −5.3 49.75	0885 j13 56.39 −6.62 62.18	1011 k13 19.09 0.0 −0.01	1027 l13 19.09 0.0 −0.01	1043 m13 19.09 0.0 −0.01	1059 n13 19.09 0.0 −0.01
14	0841 e14 49.76 5.73 −7.02	0850 f14 47.71 0.0 −0.01	0859 g14 47.06 −1.32 12.43	0868 h14 46.41 −2.65 24.87	0877 i14 45.76 −3.97 37.31	0886 j14 45.11 −5.29 49.74	1012 k14 25.45 0.0 −0.01	1028 l14 25.45 0.0 −0.01	1044 m14 25.45 0.0 −0.01	1060 n14 25.45 0.0 −0.01
15	0842 e15 39.9 11.46 −14.05	0851 f15 37.84 5.73 −7.02	0860 g15 35.79 0.0 −0.01	0869 h15 35.13 −1.32 12.43	0878 i15 34.48 −2.65 24.87	0887 j15 33.83 −3.97 37.3	1013 k15 31.81 0.0 −0.01	1029 l15 31.81 0.0 −0.01	1045 m15 31.81 0.0 −0.01	1061 n15 31.81 0.0 −0.01
16	0843 e16 30.03 17.19 −21.08	0852 f16 27.97 11.46 −14.05	0861 g16 25.91 5.73 −7.02	0870 h16 23.86 0.0 −0.01	0879 i16 23.21 −1.32 12.43	0888 j16 22.56 −2.64 24.86	1014 k16 38.17 0.0 −0.01	1030 l16 38.17 0.0 −0.01	1046 m16 38.17 0.0 −0.01	1062 n16 38.17 0.0 −0.01
17	0844 e17 20.17 22.92 −28.11	0853 f17 18.11 17.19 −21.08	0862 g17 16.05 11.46 −14.05	0871 h17 13.99 5.73 −7.02	0880 i17 11.94 0.0 −0.01	0889 j17 11.28 −1.32 12.42	1015 k17 44.53 0.0 −0.01	1031 l17 44.53 0.0 −0.01	1047 m17 44.53 0.0 −0.01	1063 n17 44.53 0.0 −0.01
18	0845 e18 10.31 28.64 −35.13	0854 f18 8.25 22.91 −28.1	0863 g18 6.19 17.18 −21.07	0872 h18 4.13 11.45 −14.04	0881 i18 2.07 5.72 −7.02	0890 j18 0.02 0.0 −0.01	1016 k18 50.89 0.0 −0.01	1032 l18 50.89 0.0 −0.01	1048 m18 50.89 0.0 −0.01	1064 n18 50.89 0.0 −0.01
19	0918 e19 77.79 −27.43 15.82	0927 f19 71.92 −36.58 21.1	0936 g19 66.05 −45.73 26.37	0945 h19 60.18 −54.88 31.65	0954 i19 54.31 −64.03 36.92	0963 j19 48.44 −73.17 42.2	1017 k19 57.25 0.0 −0.01	1033 l19 57.25 0.0 −0.01	1049 m19 57.25 0.0 −0.01	1065 n19 57.25 0.0 −0.01
20	0919 e20 71.74 −18.29 10.55	0928 f20 65.87 −27.44 15.82	0937 g20 60.0 −36.59 21.1	0946 h20 54.13 −45.74 26.38	0955 i20 48.26 −54.89 31.65	0964 j20 42.39 −64.03 36.92	1018 k20 63.61 0.0 −0.01	1034 l20 63.61 0.0 −0.01	1050 m20 63.61 0.0 −0.01	1066 n20 63.61 0.0 −0.01
21	0920 e21 65.69 −9.14 5.27	0929 f21 59.82 −18.29 10.55	0938 g21 53.95 −27.44 15.82	0947 h21 48.08 −36.59 21.1	0956 i21 42.21 −45.74 26.38	0965 j21 36.34 −54.88 31.65	1019 k21 69.97 0.0 −0.01	1035 l21 69.97 0.0 −0.01	1051 m21 69.97 0.0 −0.01	1067 n21 69.97 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 53.76 −9.14 5.27	0939 g22 47.89 −18.29 10.55	0948 h22 42.02 −27.44 15.82	0957 i22 36.15 −36.59 21.1	0966 j22 30.28 −45.73 26.37	1020 k22 76.33 0.0 −0.01	1036 l22 76.33 0.0 −0.01	1052 m22 76.33 0.0 −0.01	1068 n22 76.33 0.0 −0.01
23	0922 e23 53.37 10.23 −1.16	0931 f23 47.71 0.0 −0.01	0940 g23 41.84 −9.14 5.27	0949 h23 35.96 −18.29 10.55	0958 i23 30.1 −27.44 15.82	0967 j23 24.23 −36.58 21.1	1021 k23 82.69 0.0 −0.01	1037 l23 82.69 0.0 −0.01	1053 m23 82.69 0.0 −0.01	1069 n23 82.69 0.0 −0.01
24	0923 e24 47.12 20.46 −2.32	0932 f24 41.45 10.23 −1.16	0941 g24 35.79 0.0 −0.01	0950 h24 29.91 −9.14 5.27	0959 i24 24.04 −18.29 10.55	0968 j24 18.17 −27.43 15.82	1022 k24 89.05 0.0 −0.01	1038 l24 89.05 0.0 −0.01	1054 m24 89.05 0.0 −0.01	1070 n24 89.05 0.0 −0.01
25	0924 e25 40.86 30.69 −3.48	0933 f25 35.19 20.46 −2.32	0942 g25 29.52 10.23 −1.16	0951 h25 23.86 0.0 −0.01	0960 i25 17.99 −9.14 5.27	0969 j25 12.12 −18.29 10.54	1023 k25 95.4 0.0 −0.01	1039 l25 95.4 0.0 −0.01	1055 m25 95.4 0.0 −0.01	1071 n25 95.4 0.0 −0.01
26	0925 e26 34.61 40.92 −4.64	0934 f26 28.94 30.69 −3.48	0943 g26 23.27 20.46 −2.32	0952 h26 17.6 10.23 −1.16	0961 i26 11.94 0.0 −0.01	0970 j26 6.06 −9.14 5.27	1072 k26 0.02 0.0 −0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 −10.59 99.49	1078 n26 48.44 −73.17 42.2
27	0926 e27 28.35 51.14 −5.8	0935 f27 22.69 40.91 −4.64	0944 g27 17.02 30.68 −3.48	0953 h27 11.35 20.45 −2.32	0962 i27 5.68 10.22 −1.16	0971 j27 0.02 0.0 −0.01	1073 k27 95.4 0.0 −0.01	1075 l27 56.87 −33.1 −47.4	1077 m27 16.48 45.83 −56.2	1079 n27 45.36 81.83 −9.28

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 25/4, OLS27

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.02 0.0 -0.01	0009 B01 6.06 -9.14 5.27	0018 C01 12.12 -18.29 10.54	0027 D01 18.17 -27.43 15.82	0036 E01 24.23 -36.58 21.1	0045 F01 30.28 -45.73 26.37	0054 G01 36.34 -54.88 31.65	0063 H01 42.39 -64.03 36.92	0072 I01 48.44 -73.17 42.2	0081 J01 5.65 8.91 9.43
02	0001 A02 2.07 5.72 -7.02	0010 B02 7.12 -4.13 -5.92	0019 C02 13.17 -13.28 -0.64	0028 D02 19.23 -22.43 4.63	0037 E02 25.28 -31.58 9.9	0046 F02 31.34 -40.73 15.18	0055 G02 37.39 -49.87 20.45	0064 H02 43.45 -59.02 25.73	0073 I02 49.5 -68.16 31.0	0082 J02 5.68 10.22 -1.16
03	0002 A03 4.13 11.45 -14.04	0011 B03 9.18 1.59 -12.94	0020 C03 14.23 -8.27 -11.84	0029 D03 20.28 -17.42 -6.57	0038 E03 26.34 -26.57 -1.29	0047 F03 32.39 -35.72 3.98	0056 G03 38.45 -44.86 9.25	0065 H03 44.5 -54.01 14.53	0074 I03 50.55 -63.15 19.8	0083 J03 7.74 15.95 -8.18
04	0003 A04 6.19 17.18 -21.07	0012 B04 11.24 7.32 -19.97	0021 C04 16.29 -2.54 -18.87	0030 D04 21.34 -12.41 -17.77	0039 E04 27.39 -21.56 -12.49	0048 F04 33.45 -30.71 -7.22	0057 G04 39.5 -39.85 -1.94	0066 H04 45.56 -49.0 3.33	0075 I04 51.61 -58.14 8.6	0084 J04 9.8 21.68 -15.21
05	0004 A05 8.25 22.91 -28.1	0013 B05 13.29 13.05 -27.0	0022 C05 18.34 3.18 -25.9	0031 D05 23.39 -6.68 -24.8	0040 E05 28.44 -16.55 -23.7	0049 F05 34.5 -25.7 -18.42	0058 G05 40.55 -34.84 -13.14	0067 H05 46.61 -43.99 -7.87	0076 I05 52.66 -53.13 -2.59	0085 J05 11.86 27.41 -22.24
06	0005 A06 10.31 28.64 -35.13	0014 B06 15.35 18.78 -34.03	0023 C06 20.4 8.91 -32.93	0032 D06 25.45 -0.95 -31.82	0041 E06 30.5 -10.82 -30.72	0050 F06 35.55 -20.69 -29.62	0059 G06 41.61 -29.83 -24.35	0068 H06 47.66 -38.98 -19.07	0077 I06 53.71 -48.12 -13.8	0086 J06 13.91 33.14 -29.27
07	0006 A07 12.37 34.37 -42.15	0015 B07 17.41 24.51 -41.05	0024 C07 22.46 14.64 -39.95	0033 D07 27.51 4.77 -38.85	0042 E07 32.56 -5.09 -37.75	0051 F07 37.61 -14.96 -36.65	0060 G07 42.66 -24.82 -35.55	0069 H07 48.72 -33.97 -30.27	0078 I07 54.77 -43.11 -25.0	0087 J07 15.97 38.87 -36.29
08	0007 A08 14.42 40.1 -49.18	0016 B08 19.47 30.24 -48.08	0025 C08 24.52 20.37 -46.98	0034 D08 29.57 10.5 -45.88	0043 E08 34.62 0.63 -44.78	0052 F08 39.67 -9.23 -43.68	0061 G08 44.72 -19.09 -42.58	0070 H08 49.77 -28.96 -41.47	0079 I08 55.82 -38.1 -36.2	0088 J08 18.03 44.6 -43.32
09	0008 A09 16.48 45.83 -56.2	0017 B09 21.53 35.96 -55.1	0026 C09 26.58 26.1 -54.0	0035 D09 31.63 16.23 -52.9	0044 E09 36.68 6.36 -51.8	0053 F09 41.73 -3.5 -50.7	0062 G09 46.78 -13.37 -49.6	0071 H09 51.83 -23.24 -48.5	0080 I09 56.87 -33.1 -47.4	0089 J09 20.09 50.32 -50.34
10	0243 A10 16.93 26.75 28.31	0252 B10 22.56 16.51 31.31	0261 C10 28.2 6.27 34.31	0270 D10 33.83 -3.97 37.3	0279 E10 39.89 -13.12 42.58	0288 F10 45.94 -22.27 47.85	0297 G10 52.0 -31.42 53.13	0306 H10 58.05 -40.56 58.41	0315 I10 64.1 -49.71 63.68	0324 J10 22.58 35.67 37.76
11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 -2.65 24.87	0280 E11 40.54 -11.79 30.15	0289 F11 46.59 -20.94 35.43	0298 G11 52.65 -30.09 40.7	0307 H11 58.7 -39.24 45.98	0316 I11 64.75 -48.38 51.25	0325 J11 22.6 36.98 27.16
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 -1.32 12.43	0281 E12 41.19 -10.47 17.71	0290 F12 47.24 -19.62 22.99	0299 G12 53.3 -28.77 28.26	0308 H12 59.35 -37.92 33.54	0317 I12 65.4 -47.06 38.81	0326 J12 22.63 38.29 16.56
13	0246 A13 17.02 30.68 -3.48	0255 B13 23.27 20.46 -2.32	0264 C13 29.52 10.23 -1.16	0273 D13 35.79 0.0 -0.01	0282 E13 41.84 -9.14 5.27	0291 F13 47.89 -18.29 10.55	0300 G13 53.95 -27.44 15.82	0309 H13 60.0 -36.59 21.1	0318 I13 66.05 -45.73 26.37	0327 J13 22.66 39.6 5.95
14	0247 A14 19.08 36.41 -10.51	0256 B14 25.33 26.19 -9.35	0265 C14 31.58 15.96 -8.18	0274 D14 37.84 5.73 -7.02	0283 E14 42.89 -4.13 -5.92	0292 F14 48.94 -13.28 -0.65	0301 G14 55.0 -22.43 4.62	0310 H14 61.05 -31.58 9.9	0319 I14 67.1 -40.72 15.17	0328 J14 22.69 40.91 -4.64
15	0248 A15 21.13 42.14 -17.53	0257 B15 27.39 31.92 -16.37	0266 C15 33.64 21.69 -15.21	0275 D15 39.9 11.46 -14.05	0284 E15 44.95 1.59 -12.95	0293 F15 50.0 -8.27 -11.85	0302 G15 56.05 -17.42 -6.57	0311 H15 62.11 -26.57 -1.3	0320 I15 68.16 -35.71 3.97	0329 J15 24.74 46.64 -11.67
16	0249 A16 23.19 47.87 -24.56	0258 B16 29.44 37.65 -23.4	0267 C16 35.7 27.42 -22.24	0276 D16 41.96 17.19 -21.08	0285 E16 47.01 7.32 -19.98	0294 F16 52.06 -2.54 -18.88	0303 G16 57.11 -12.41 -17.77	0312 H16 63.16 -21.56 -12.5	0321 I16 69.21 -30.7 -7.23	0330 J16 26.8 52.37 -18.69
17	0250 A17 25.25 53.6 -31.59	0259 B17 31.5 43.38 -30.43	0268 C17 37.76 33.15 -29.27	0277 D17 44.02 22.92 -28.11	0286 E17 49.07 13.05 -27.0	0295 F17 54.12 3.18 -25.9	0304 G17 59.17 -6.68 -24.8	0313 H17 64.22 -16.55 -23.7	0322 I17 70.27 -25.69 -18.43	0331 J17 28.86 58.1 -25.72
18	0251 A18 27.31 59.33 -38.61	0260 B18 33.56 49.1 -37.45	0269 C18 39.82 38.87 -36.29	0278 D18 46.07 28.64 -35.13	0287 E18 51.12 18.77 -34.03	0296 F18 56.17 8.9 -32.92	0305 G18 61.22 -0.96 -31.82	0314 H18 66.27 -10.82 -30.72	0323 I18 71.32 -20.69 -29.62	0332 J18 30.92 63.83 -32.74
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 -7.94 74.62	0549 H19 73.72 -17.09 79.89	0558 I19 79.77 -26.23 85.17	0567 J19 39.5 62.44 66.08
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 -6.62 62.19	0550 H20 74.37 -15.77 67.47	0559 I20 80.42 -24.91 72.74	0568 J20 39.53 63.75 55.49
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 -5.3 49.75	0551 H21 75.02 -14.44 55.03	0560 I21 81.07 -23.59 60.3	0569 J21 39.55 65.06 44.89
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 -3.97 37.31	0552 H22 75.66 -13.12 42.59	0561 I22 81.71 -22.26 47.86	0570 J22 39.58 66.37 34.28
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 -2.65 24.87	0553 H23 76.31 -11.79 30.15	0562 I23 82.36 -20.94 35.42	0571 J23 39.61 67.68 23.68
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 -1.32 12.43	0554 H24 76.96 -10.47 17.71	0563 I24 83.01 -19.61 22.98	0572 J24 39.64 68.99 13.07
25	0492 A25 34.02 61.37 -6.96	0501 B25 40.27 51.15 -5.8	0510 C25 46.53 40.92 -4.64	0519 D25 52.79 30.69 -3.48	0528 E25 59.04 20.46 -2.32	0537 F25 65.3 10.23 -1.16	0546 G25 71.56 0.0 -0.01	0555 H25 77.61 -9.14 5.27	0564 I25 83.66 -18.29 10.54	0573 J25 39.66 70.3 2.47
26	0493 A26 36.08 67.1 -13.99	0502 B26 42.33 56.88 -12.83	0511 C26 48.59 46.65 -11.67	0520 D26 54.85 36.42 -10.51	0529 E26 61.1 26.19 -9.35	0538 F26 67.36 15.96 -8.18	0547 G26 73.61 5.73 -7.02	0556 H26 78.66 -4.13 -5.92	0565 I26 84.71 -13.28 -0.65	0574 J26 39.69 71.61 -8.12
27	0494 A27 38.14 72.83 -21.01	0503 B27 44.39 62.61 -19.85	0512 C27 50.65 52.38 -18.69	0521 D27 56.9 42.14 -17.53	0530 E27 63.16 31.91 -16.37	0539 F27 69.41 21.68 -15.21	0548 G27 75.67 11.45 -14.04	0557 H27 80.72 1.58 -12.94	0566 I27 85.77 -8.27 -11.84	0575 J27 41.75 77.33 -15.14

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.28 -1.32 12.42	0099 L01 17.34 -10.47 17.7	0108 M01 23.39 -19.62 22.98	0117 N01 29.45 -28.77 28.25	0126 O01 35.5 -37.91 33.53	0135 P01 41.56 -47.06 38.81	0144 Q01 47.61 -56.21 44.08	0153 R01 53.66 -65.35 49.35	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87
02	0091 K02 11.94 0.0 -0.01	0100 L02 17.99 -9.14 5.27	0109 M02 24.04 -18.29 10.55	0118 N02 30.1 -27.44 15.82	0127 O02 36.15 -36.59 21.1	0136 P02 42.21 -45.74 26.38	0145 Q02 48.26 -54.89 31.65	0154 R02 54.31 -64.03 36.92	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44
03	0092 K03 13.99 5.73 -7.02	0101 L03 19.04 -4.13 -5.92	0110 M03 25.09 -13.28 -0.65	0119 N03 31.15 -22.43 4.62	0128 O03 37.2 -31.58 9.9	0137 P03 43.26 -40.73 15.17	0146 Q03 49.31 -49.88 20.45	0155 R03 55.36 -59.02 25.72	0164 S03 11.35 20.45 -2.32	0173 T03 17.6 10.23 -1.16
04	0093 K04 16.05 11.46 -14.05	0102 L04 21.1 1.59 -12.95	0111 M04 26.15 -8.27 -11.85	0120 N04 32.2 -17.42 -6.57	0129 O04 38.26 -26.57 -1.3	0138 P04 44.31 -35.72 3.97	0147 Q04 50.37 -44.87 9.25	0156 R04 56.42 -54.01 14.52	0165 S04 13.41 26.18 -9.34	0174 T04 19.66 15.96 -8.18
05	0094 K05 18.11 17.19 -21.08	0103 L05 23.16 7.32 -19.98	0112 M05 28.21 -2.54 -18.88	0121 N05 33.26 -12.41 -17.77	0130 O05 39.31 -21.56 -12.5	0139 P05 45.37 -30.71 -7.22	0148 Q05 51.42 -39.86 -1.94	0157 R05 57.47 -49.0 3.32	0166 S05 15.47 31.91 -16.37	0175 T05 21.72 21.69 -15.21
06	0095 K06 20.17 22.92 -28.11	0104 L06 25.22 13.05 -27.0	0113 M06 30.27 3.18 -25.9	0122 N06 35.32 -6.68 -24.8	0131 O06 40.37 -16.55 -23.7	0140 P06 46.42 -25.7 -18.42	0149 Q06 52.48 -34.85 -13.15	0158 R06 58.53 -43.99 -7.88	0167 S06 17.52 37.64 -23.4	0176 T06 23.78 27.42 -22.24
07	0096 K07 22.22 28.65 -35.13	0105 L07 27.27 18.78 -34.03	0114 M07 32.32 8.91 -32.93	0123 N07 37.37 -0.95 -31.83	0132 O07 42.42 -10.82 -30.73	0141 P07 47.47 -20.69 -29.63	0150 Q07 53.53 -29.84 -24.35	0159 R07 59.58 -38.98 -19.08	0168 S07 19.58 43.37 -30.43	0177 T07 25.83 33.15 -29.27
08	0097 K08 24.28 34.38 -42.16	0106 L08 29.33 24.51 -41.06	0115 M08 34.38 14.64 -39.96	0124 N08 39.43 4.77 -38.86	0133 O08 44.48 -5.09 -37.76	0142 P08 49.53 -14.96 -36.65	0151 Q08 54.58 -24.83 -35.55	0160 R08 60.63 -33.97 -30.28	0169 S08 21.64 49.1 -37.45	0178 T08 27.89 38.88 -36.29
09	0098 K09 26.34 40.1 -49.18	0107 L09 31.39 30.23 -48.08	0116 M09 36.44 20.36 -46.98	0125 N09 41.49 10.49 -45.88	0134 O09 46.54 0.63 -44.78	0143 P09 51.59 -9.23 -43.68	0152 Q09 56.64 -19.1 -42.57	0161 R09 61.69 -28.96 -41.47	0170 S09 23.7 54.82 -44.48	0179 T09 29.95 44.6 -43.32
10	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 -5.29 49.74	0369 O10 51.17 -14.44 55.02	0378 P10 57.22 -23.59 60.29	0387 Q10 63.28 -32.74 65.57	0396 R10 69.33 -41.88 70.84	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19
11	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 -3.97 37.31	0370 O11 51.81 -13.12 42.59	0379 P11 57.87 -22.27 47.86	0388 Q11 63.92 -31.42 53.14	0397 R11 69.97 -40.56 58.41	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77
12	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 -2.65 24.87	0371 O12 52.46 -11.79 30.15	0380 P12 58.52 -20.94 35.43	0389 Q12 64.57 -30.09 40.7	0398 R12 70.62 -39.23 45.97	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16
13	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 -1.32 12.43	0372 O13 53.11 -10.47 17.71	0381 P13 59.17 -19.62 22.99	0390 Q13 65.22 -28.77 28.26	0399 R13 71.27 -37.91 33.53	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56
14	0337 K14 28.94 30.69 -3.48	0346 L14 35.19 20.46 -2.32	0355 M14 41.45 10.23 -1.16	0364 N14 47.71 0.0 -0.01	0373 O14 53.76 -9.14 5.27	0382 P14 59.82 -18.29 10.55	0391 Q14 65.87 -27.44 15.82	0400 R14 71.92 -36.58 21.1	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95
15	0338 K15 31.0 36.42 -10.51	0347 L15 37.25 26.19 -9.35	0356 M15 43.51 15.96 -8.18	0365 N15 49.76 5.73 -7.02	0374 O15 54.81 -4.13 -5.92	0383 P15 60.87 -13.28 -0.65	0392 Q15 66.92 -22.43 4.62	0401 R15 72.97 -31.57 9.89	0410 S15 28.35 51.14 -5.8	0419 T15 34.61 40.92 -4.64
16	0339 K16 33.05 42.15 -17.53	0348 L16 39.31 31.92 -16.37	0357 M16 45.57 21.69 -15.21	0366 N16 51.82 11.46 -14.05	0375 O16 56.87 1.59 -12.95	0384 P16 61.92 -8.27 -11.85	0393 Q16 67.98 -17.42 -6.57	0402 R16 74.03 -26.56 -1.3	0411 S16 30.41 56.87 -12.83	0420 T16 36.66 46.65 -11.67
17	0340 K17 35.11 47.88 -24.56	0349 L17 41.37 37.65 -23.4	0358 M17 47.63 27.42 -22.24	0367 N17 53.88 17.19 -21.08	0376 O17 58.93 7.32 -19.98	0385 P17 63.98 -2.54 -18.88	0394 Q17 69.03 -12.41 -17.77	0403 R17 75.08 -21.55 -12.5	0412 S17 32.47 62.6 -19.86	0421 T17 38.72 52.38 -18.7
18	0341 K18 37.17 53.6 -31.58	0350 L18 43.43 43.37 -30.42	0359 M18 49.68 33.14 -29.26	0368 N18 55.94 22.91 -28.1	0377 O18 60.99 13.04 -27.0	0386 P18 66.04 3.17 -25.9	0395 Q18 71.09 -6.69 -24.8	0404 R18 76.13 -16.55 -23.7	0413 S18 34.53 68.33 -26.88	0422 T18 40.78 58.11 -25.72
19	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 -9.27 87.06	0639 R19 84.99 -18.41 92.33	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51
20	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 -7.95 74.63	0640 R20 85.64 -17.09 79.9	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08
21	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 -6.62 62.19	0641 R21 86.29 -15.76 67.46	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48
22	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 -5.3 49.75	0642 R22 86.94 -14.44 55.02	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88
23	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 -3.97 37.31	0643 R23 87.58 -13.11 42.58	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27
24	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 -2.65 24.87	0644 R24 88.23 -11.79 30.14	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67
25	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 -1.32 12.43	0645 R25 88.88 -10.46 17.71	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07
26	0583 K26 45.94 61.38 -6.96	0592 L26 52.2 51.15 -5.8	0601 M26 58.46 40.92 -4.64	0610 N26 64.71 30.69 -3.48	0619 O26 70.97 20.46 -2.32	0628 P26 77.22 10.23 -1.16	0637 Q26 83.49 0.0 -0.01	0646 R26 89.53 -9.14 5.27	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46
27	0584 K27 48.0 67.11 -13.98	0593 L27 54.26 56.88 -12.82	0602 M27 60.51 46.65 -11.66	0611 N27 66.77 36.41 -10.5	0620 O27 73.02 26.18 -9.34	0629 P27 79.28 15.95 -8.18	0638 Q27 85.54 5.72 -7.02	0647 R27 90.58 -4.13 -5.92	0656 S27 45.36 81.83 -9.28	0665 T27 51.61 71.61 -8.12

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 22.56 -2.64 24.86	0189 V01 28.61 -11.79 30.14	0198 W01 34.67 -20.94 35.42	0207 X01 40.72 -30.09 40.69	0216 Y01 46.78 -39.24 45.97	0225 Z01 52.83 -48.39 51.24	0234 a01 58.88 -57.53 56.52	0729 b01 95.4 0.0 -0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87
02	0181 U02 23.21 -1.32 12.43	0190 V02 29.26 -10.47 17.71	0199 W02 35.32 -19.62 22.99	0208 X02 41.37 -28.77 28.26	0217 Y02 47.43 -37.92 33.54	0226 Z02 53.48 -47.06 38.82	0235 a02 59.53 -56.21 44.09	0730 b02 90.58 -4.13 -5.92	0739 c02 83.49 0.0 -0.01	0748 d02 77.2 8.92 9.44
03	0182 U03 23.86 0.0 -0.01	0191 V03 29.91 -9.14 5.27	0200 W03 35.96 -18.29 10.55	0209 X03 42.02 -27.44 15.82	0218 Y03 48.08 -36.59 21.1	0227 Z03 54.13 -45.74 26.38	0236 a03 60.18 -54.88 31.65	0731 b03 85.77 -8.27 -11.84	0740 c03 78.66 -4.13 -5.92	0749 d03 71.56 0.0 -0.01
04	0183 U04 25.91 5.73 -7.02	0192 V04 30.96 -4.13 -5.92	0201 W04 37.02 -13.28 -0.65	0210 X04 43.07 -22.43 4.62	0219 Y04 49.13 -31.58 9.9	0228 Z04 55.18 -40.73 15.17	0237 a04 61.23 -49.87 20.45	0732 b04 80.95 -12.41 -17.77	0741 c04 73.85 -8.27 -11.85	0750 d04 66.74 -4.13 -5.92
05	0184 U05 27.97 11.46 -14.05	0193 V05 33.02 1.59 -12.95	0202 W05 38.07 -8.27 -11.85	0211 X05 44.13 -17.42 -6.57	0220 Y05 50.18 -26.57 -1.3	0229 Z05 56.24 -35.72 3.97	0238 a05 62.29 -44.86 9.24	0733 b05 76.13 -16.55 -23.7	0742 c05 69.03 -12.41 -17.77	0751 d05 61.92 -8.27 -11.85
06	0185 U06 30.03 17.19 -21.08	0194 V06 35.08 7.32 -19.98	0203 W06 40.13 -2.54 -18.88	0212 X06 45.18 -12.41 -17.77	0221 Y06 51.24 -21.56 -12.5	0230 Z06 57.29 -30.71 -7.22	0239 a06 63.34 -39.85 -1.95	0734 b06 71.32 -20.69 -29.62	0743 c06 64.22 -16.55 -23.7	0752 d06 57.11 -12.41 -17.77
07	0186 U07 32.09 22.92 -28.11	0195 V07 37.14 13.05 -27.0	0204 W07 42.19 3.18 -25.9	0213 X07 47.24 -6.68 -24.8	0222 Y07 52.29 -16.55 -23.7	0231 Z07 58.35 -25.7 -18.42	0240 a07 64.4 -34.84 -13.15	0735 b07 66.5 -24.82 -35.55	0744 c07 59.4 -20.69 -29.63	0753 d07 52.29 -16.55 -23.7
08	0187 U08 34.15 28.65 -35.13	0196 V08 39.2 18.78 -34.03	0205 W08 44.25 8.91 -32.93	0214 X08 49.3 -0.95 -31.83	0223 Y08 54.35 -10.82 -30.73	0232 Z08 59.4 -20.69 -29.63	0241 a08 65.45 -29.83 -24.35	0736 b08 61.69 -28.96 -41.47	0745 c08 54.58 -24.83 -35.55	0754 d08 47.47 -20.69 -29.63
09	0188 U09 36.21 34.37 -42.15	0197 V09 41.26 24.5 -41.05	0206 W09 46.31 14.63 -39.95	0215 X09 51.36 4.76 -38.85	0224 Y09 56.41 -5.09 -37.75	0233 Z09 61.46 -14.96 -36.65	0242 a09 66.5 -24.82 -35.55	0737 b09 56.87 -33.1 -47.4	0746 c09 49.77 -28.96 -41.47	0755 d09 42.66 -24.82 -35.55
10	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 -6.62 62.18	0459 Y10 62.44 -15.77 67.46	0468 Z10 68.5 -24.92 72.73	0477 a10 74.55 -34.06 78.0	0810 b10 95.4 0.0 -0.01	0819 c10 94.75 -1.32 12.42	0828 d10 94.1 -2.64 24.86
11	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 -5.3 49.75	0460 Y11 63.09 -14.44 55.03	0469 Z11 69.15 -23.59 60.3	0478 a11 75.2 -32.73 65.57	0811 b11 85.54 5.72 -7.02	0820 c11 83.49 0.0 -0.01	0829 d11 82.83 -1.32 12.43
12	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 -3.97 37.31	0461 Y12 63.74 -13.12 42.59	0470 Z12 69.79 -22.27 47.86	0479 a12 75.84 -31.41 53.14	0812 b12 75.67 11.45 -14.04	0821 c12 73.61 5.73 -7.02	0830 d12 71.56 0.0 -0.01
13	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 -2.65 24.87	0462 Y13 64.39 -11.79 30.15	0471 Z13 70.44 -20.94 35.43	0480 a13 76.49 -30.08 40.7	0813 b13 65.8 17.18 -21.07	0822 c13 63.75 11.46 -14.05	0831 d13 61.69 5.73 -7.02
14	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 -1.32 12.43	0463 Y14 65.04 -10.47 17.71	0472 Z14 71.09 -19.62 22.99	0481 a14 77.14 -28.76 28.26	0814 b14 55.94 22.91 -28.1	0823 c14 53.88 17.19 -21.08	0832 d14 51.82 11.46 -14.05
15	0428 U15 40.86 30.69 -3.48	0437 V15 47.12 20.46 -2.32	0446 W15 53.37 10.23 -1.16	0455 X15 59.64 0.0 -0.01	0464 Y15 65.69 -9.14 5.27	0473 Z15 71.74 -18.29 10.55	0482 a15 77.79 -27.43 15.82	0815 b15 46.07 28.64 -35.13	0824 c15 44.02 22.92 -28.11	0833 d15 41.96 17.19 -21.08
16	0429 U16 42.92 36.42 -10.51	0438 V16 49.18 26.19 -9.35	0447 W16 55.43 15.96 -8.18	0456 X16 61.69 5.73 -7.02	0465 Y16 66.74 -4.13 -5.92	0474 Z16 72.79 -13.28 -0.65	0483 a16 78.84 -22.42 4.62	0816 b16 36.21 34.37 -42.15	0825 c16 34.15 28.65 -35.13	0834 d16 32.09 22.92 -28.11
17	0430 U17 44.98 42.15 -17.53	0439 V17 51.24 31.92 -16.37	0448 W17 57.49 21.69 -15.21	0457 X17 63.75 11.46 -14.05	0466 Y17 68.8 1.59 -12.95	0475 Z17 73.85 -8.27 -11.85	0484 a17 79.9 -17.41 -6.58	0817 b17 26.34 40.1 -49.18	0826 c17 24.28 34.38 -42.16	0835 d17 22.22 28.65 -35.13
18	0431 U18 47.04 47.87 -24.56	0440 V18 53.29 37.64 -23.39	0449 W18 59.55 27.41 -22.23	0458 X18 65.8 17.18 -21.07	0467 Y18 70.85 7.31 -19.97	0476 Z18 75.9 -2.55 -18.87	0485 a18 80.95 -12.41 -17.77	0818 b18 16.48 45.83 -56.2	0827 c18 14.42 40.1 -49.18	0836 d18 12.37 34.37 -42.15
19	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 -0.35 96.49	0720 a19 90.21 -10.59 99.49	0891 b19 95.4 0.0 -0.01	0900 c19 89.53 -9.14 5.27	0909 d19 83.66 -18.29 10.54
20	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 -9.27 87.06	0892 b20 89.14 10.22 -1.16	0901 c20 83.49 0.0 -0.01	0910 d20 77.61 -9.14 5.27
21	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 -7.94 74.62	0893 b21 82.89 20.45 -2.32	0902 c21 77.22 10.23 -1.16	0911 d21 71.56 0.0 -0.01
22	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 -6.62 62.18	0894 b22 76.63 30.68 -3.48	0903 c22 70.97 20.46 -2.32	0912 d22 65.3 10.23 -1.16
23	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 -5.29 49.74	0895 b23 70.38 40.91 -4.64	0904 c23 64.71 30.69 -3.48	0913 d23 59.04 20.46 -2.32
24	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 -3.97 37.3	0896 b24 64.12 51.14 -5.8	0905 c24 58.46 40.92 -4.64	0914 d24 52.79 30.69 -3.48
25	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 -2.64 24.86	0897 b25 57.86 61.37 -6.96	0906 c25 52.2 51.15 -5.8	0915 d25 46.53 40.92 -4.64
26	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 -1.32 12.42	0898 b26 51.61 71.61 -8.12	0907 c26 45.94 61.38 -6.96	0916 d26 40.27 51.15 -5.8
27	0674 U27 57.86 61.37 -6.96	0683 V27 64.12 51.14 -5.8	0692 W27 70.38 40.91 -4.64	0701 X27 76.63 30.68 -3.48	0710 Y27 82.89 20.45 -2.32	0719 Z27 89.14 10.22 -1.16	0728 a27 95.4 0.0 -0.01	0899 b27 45.36 81.83 -9.28	0908 c27 39.69 71.61 -8.12	0917 d27 34.02 61.37 -6.96

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52	0972 k01 0.02 0.0 -0.01	0981 l01 0.02 0.0 -0.01	0990 m01 0.02 0.0 -0.01	0999 n01 0.02 0.0 -0.01
02	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08	0973 k02 11.94 0.0 -0.01	0982 l02 11.94 0.0 -0.01	0991 m02 11.94 0.0 -0.01	1000 n02 11.94 0.0 -0.01
03	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64	0974 k03 23.86 0.0 -0.01	0983 l03 23.86 0.0 -0.01	0992 m03 23.86 0.0 -0.01	1001 n03 23.86 0.0 -0.01
04	0759 e04 59.64 0.0 -0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2	0975 k04 35.79 0.0 -0.01	0984 l04 35.79 0.0 -0.01	0993 m04 35.79 0.0 -0.01	1002 n04 35.79 0.0 -0.01
05	0760 e05 54.81 -4.13 -5.92	0769 f05 47.71 0.0 -0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76	0976 k05 47.71 0.0 -0.01	0985 l05 47.71 0.0 -0.01	0994 m05 47.71 0.0 -0.01	1003 n05 47.71 0.0 -0.01
06	0761 e06 50.0 -8.27 -11.85	0770 f06 42.89 -4.13 -5.92	0779 g06 35.79 0.0 -0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31	0977 k06 59.64 0.0 -0.01	0986 l06 59.64 0.0 -0.01	0995 m06 59.64 0.0 -0.01	1004 n06 59.64 0.0 -0.01
07	0762 e07 45.18 -12.41 -17.77	0771 f07 38.07 -8.27 -11.85	0780 g07 30.96 -4.13 -5.92	0789 h07 23.86 0.0 -0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87	0978 k07 71.56 0.0 -0.01	0987 l07 71.56 0.0 -0.01	0996 m07 71.56 0.0 -0.01	1005 n07 71.56 0.0 -0.01
08	0763 e08 40.37 -16.55 -23.7	0772 f08 33.26 -12.41 -17.77	0781 g08 26.15 -8.27 -11.85	0790 h08 19.04 -4.13 -5.92	0799 i08 11.94 0.0 -0.01	0808 j08 5.65 8.91 9.43	0979 k08 83.49 0.0 -0.01	0988 l08 83.49 0.0 -0.01	0997 m08 83.49 0.0 -0.01	1006 n08 83.49 0.0 -0.01
09	0764 e09 35.55 -20.69 -29.62	0773 f09 28.44 -16.55 -23.7	0782 g09 21.34 -12.41 -17.77	0791 h09 14.23 -8.27 -11.84	0800 i09 7.12 -4.13 -5.92	0809 j09 0.02 0.0 -0.01	0980 k09 95.4 0.0 -0.01	0989 l09 95.4 0.0 -0.01	0998 m09 95.4 0.0 -0.01	1007 n09 95.4 0.0 -0.01
10	0837 e10 93.45 -3.97 37.3	0846 f10 92.8 -5.29 49.74	0855 g10 92.15 -6.62 62.18	0864 h10 91.5 -7.94 74.62	0873 i10 90.85 -9.27 87.06	0882 j10 90.21 -10.59 99.49	1008 k10 0.02 0.0 -0.01	1024 l10 0.02 0.0 -0.01	1040 m10 0.02 0.0 -0.01	1056 n10 0.02 0.0 -0.01
11	0838 e11 82.18 -2.65 24.87	0847 f11 81.53 -3.97 37.31	0856 g11 80.89 -5.3 49.75	0865 h11 80.24 -6.62 62.19	0874 i11 79.59 -7.95 74.63	0883 j11 78.94 -9.27 87.06	1009 k11 6.37 0.0 -0.01	1025 l11 6.37 0.0 -0.01	1041 m11 6.37 0.0 -0.01	1057 n11 6.37 0.0 -0.01
12	0839 e12 70.91 -1.32 12.43	0848 f12 70.26 -2.65 24.87	0857 g12 69.61 -3.97 37.31	0866 h12 68.96 -5.3 49.75	0875 i12 68.31 -6.62 62.19	0884 j12 67.66 -7.94 74.62	1010 k12 12.73 0.0 -0.01	1026 l12 12.73 0.0 -0.01	1042 m12 12.73 0.0 -0.01	1058 n12 12.73 0.0 -0.01
13	0840 e13 59.64 0.0 -0.01	0849 f13 58.98 -1.32 12.43	0858 g13 58.33 -2.65 24.87	0867 h13 57.68 -3.97 37.31	0876 i13 57.03 -5.3 49.75	0885 j13 56.39 -6.62 62.18	1011 k13 19.09 0.0 -0.01	1027 l13 19.09 0.0 -0.01	1043 m13 19.09 0.0 -0.01	1059 n13 19.09 0.0 -0.01
14	0841 e14 49.76 5.73 -7.02	0850 f14 47.71 0.0 -0.01	0859 g14 47.06 -1.32 12.43	0868 h14 46.41 -2.65 24.87	0877 i14 45.76 -3.97 37.31	0886 j14 45.11 -5.29 49.74	1012 k14 25.45 0.0 -0.01	1028 l14 25.45 0.0 -0.01	1044 m14 25.45 0.0 -0.01	1060 n14 25.45 0.0 -0.01
15	0842 e15 39.9 11.46 -14.05	0851 f15 37.84 5.73 -7.02	0860 g15 35.79 0.0 -0.01	0869 h15 35.13 -1.32 12.43	0878 i15 34.48 -2.65 24.87	0887 j15 33.83 -3.97 37.3	1013 k15 31.81 0.0 -0.01	1029 l15 31.81 0.0 -0.01	1045 m15 31.81 0.0 -0.01	1061 n15 31.81 0.0 -0.01
16	0843 e16 30.03 17.19 -21.08	0852 f16 27.97 11.46 -14.05	0861 g16 25.91 5.73 -7.02	0870 h16 23.86 0.0 -0.01	0879 i16 23.21 -1.32 12.43	0888 j16 22.56 -2.64 24.86	1014 k16 38.17 0.0 -0.01	1030 l16 38.17 0.0 -0.01	1046 m16 38.17 0.0 -0.01	1062 n16 38.17 0.0 -0.01
17	0844 e17 20.17 22.92 -28.11	0853 f17 18.11 17.19 -21.08	0862 g17 16.05 11.46 -14.05	0871 h17 13.99 5.73 -7.02	0880 i17 11.94 0.0 -0.01	0889 j17 11.28 -1.32 12.42	1015 k17 44.53 0.0 -0.01	1031 l17 44.53 0.0 -0.01	1047 m17 44.53 0.0 -0.01	1063 n17 44.53 0.0 -0.01
18	0845 e18 10.31 28.64 -35.13	0854 f18 8.25 22.91 -28.1	0863 g18 6.19 17.18 -21.07	0872 h18 4.13 11.45 -14.04	0881 i18 2.07 5.72 -7.02	0890 j18 0.02 0.0 -0.01	1016 k18 50.89 0.0 -0.01	1032 l18 50.89 0.0 -0.01	1048 m18 50.89 0.0 -0.01	1064 n18 50.89 0.0 -0.01
19	0918 e19 77.79 -27.43 15.82	0927 f19 71.92 -36.58 21.1	0936 g19 66.05 -45.73 26.37	0945 h19 60.18 -54.88 31.65	0954 i19 54.31 -64.03 36.92	0963 j19 48.44 -73.17 42.2	1017 k19 57.25 0.0 -0.01	1033 l19 57.25 0.0 -0.01	1049 m19 57.25 0.0 -0.01	1065 n19 57.25 0.0 -0.01
20	0919 e20 71.74 -18.29 10.55	0928 f20 65.87 -27.44 15.82	0937 g20 60.0 -36.59 21.1	0946 h20 54.13 -45.74 26.38	0955 i20 48.26 -54.89 31.65	0964 j20 42.39 -64.03 36.92	1018 k20 63.61 0.0 -0.01	1034 l20 63.61 0.0 -0.01	1050 m20 63.61 0.0 -0.01	1066 n20 63.61 0.0 -0.01
21	0920 e21 65.69 -9.14 5.27	0929 f21 59.82 -18.29 10.55	0938 g21 53.95 -27.44 15.82	0947 h21 48.08 -36.59 21.1	0956 i21 42.21 -45.74 26.38	0965 j21 36.34 -54.88 31.65	1019 k21 69.97 0.0 -0.01	1035 l21 69.97 0.0 -0.01	1051 m21 69.97 0.0 -0.01	1067 n21 69.97 0.0 -0.01
22	0921 e22 59.64 0.0 -0.01	0930 f22 53.76 -9.14 5.27	0939 g22 47.89 -18.29 10.55	0948 h22 42.02 -27.44 15.82	0957 i22 36.15 -36.59 21.1	0966 j22 30.28 -45.73 26.37	1020 k22 76.33 0.0 -0.01	1036 l22 76.33 0.0 -0.01	1052 m22 76.33 0.0 -0.01	1068 n22 76.33 0.0 -0.01
23	0922 e23 53.37 10.23 -1.16	0931 f23 47.71 0.0 -0.01	0940 g23 41.84 -9.14 5.27	0949 h23 35.96 -18.29 10.55	0958 i23 30.1 -27.44 15.82	0967 j23 24.23 -36.58 21.1	1021 k23 82.69 0.0 -0.01	1037 l23 82.69 0.0 -0.01	1053 m23 82.69 0.0 -0.01	1069 n23 82.69 0.0 -0.01
24	0923 e24 47.12 20.46 -2.32	0932 f24 41.45 10.23 -1.16	0941 g24 35.79 0.0 -0.01	0950 h24 29.91 -9.14 5.27	0959 i24 24.04 -18.29 10.55	0968 j24 18.17 -27.43 15.82	1022 k24 89.05 0.0 -0.01	1038 l24 89.05 0.0 -0.01	1054 m24 89.05 0.0 -0.01	1070 n24 89.05 0.0 -0.01
25	0924 e25 40.86 30.69 -3.48	0933 f25 35.19 20.46 -2.32	0942 g25 29.52 10.23 -1.16	0951 h25 23.86 0.0 -0.01	0960 i25 17.99 -9.14 5.27	0969 j25 12.12 -18.29 10.54	1023 k25 95.4 0.0 -0.01	1039 l25 95.4 0.0 -0.01	1055 m25 95.4 0.0 -0.01	1071 n25 95.4 0.0 -0.01
26	0925 e26 34.61 40.92 -4.64	0934 f26 28.94 30.69 -3.48	0943 g26 23.27 20.46 -2.32	0952 h26 17.6 10.23 -1.16	0961 i26 11.94 0.0 -0.01	0970 j26 6.06 -9.14 5.27	1072 k26 0.02 0.0 -0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 -10.59 99.49	1078 n26 48.44 -73.17 42.2
27	0926 e27 28.35 51.14 -5.8	0935 f27 22.69 40.91 -4.64	0944 g27 17.02 30.68 -3.48	0953 h27 11.35 20.45 -2.32	0962 i27 5.68 10.22 -1.16	0971 j27 0.02 0.0 -0.01	1073 k27 95.4 0.0 -0.01	1075 l27 56.87 -33.1 -47.4	1077 m27 16.48 45.83 -56.2	1079 n27 45.36 81.83 -9.28

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 26/4, OLS38

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I	J
01	0000 A01 0.02 0.0 −0.01	0009 B01 6.06 −9.14 5.27	0018 C01 12.12 −18.29 10.54	0027 D01 18.17 −27.43 15.82	0036 E01 24.23 −36.58 21.1	0045 F01 30.28 −45.73 26.37	0054 G01 36.34 −54.88 31.65	0063 H01 42.39 −64.03 36.92	0072 I01 48.44 −73.17 42.2	0081 J01 5.65 8.91 9.43
02	0001 A02 2.07 5.72 −7.02	0010 B02 7.12 −4.13 −5.92	0019 C02 13.17 −13.28 −0.64	0028 D02 19.23 −22.43 4.63	0037 E02 25.28 −31.58 9.9	0046 F02 31.34 −40.73 15.18	0055 G02 37.39 −49.87 20.45	0064 H02 43.45 −59.02 25.73	0073 I02 49.5 −68.16 31.0	0082 J02 5.68 10.22 −1.16
03	0002 A03 4.13 11.45 −14.04	0011 B03 9.18 1.59 −12.94	0020 C03 14.23 −8.27 −11.84	0029 D03 20.28 −17.42 −6.57	0038 E03 26.34 −26.57 −1.29	0047 F03 32.39 −35.72 3.98	0056 G03 38.45 −44.86 9.25	0065 H03 44.5 −54.01 14.53	0074 I03 50.55 −63.15 19.8	0083 J03 7.74 15.95 −8.18
04	0003 A04 6.19 17.18 −21.07	0012 B04 11.24 7.32 −19.97	0021 C04 16.29 −2.54 −18.87	0030 D04 21.34 −12.41 −17.77	0039 E04 27.39 −21.56 −12.49	0048 F04 33.45 −30.71 −7.22	0057 G04 39.5 −39.85 −1.94	0066 H04 45.56 −49.0 3.33	0075 I04 51.61 −58.14 8.6	0084 J04 9.8 21.68 −15.21
05	0004 A05 8.25 22.91 −28.1	0013 B05 13.29 13.05 −27.0	0022 C05 18.34 3.18 −25.9	0031 D05 23.39 −6.68 −24.8	0040 E05 28.44 −16.55 −23.7	0049 F05 34.5 −25.7 −18.42	0058 G05 40.55 −34.84 −13.14	0067 H05 46.61 −43.99 −7.87	0076 I05 52.66 −53.13 −2.59	0085 J05 11.86 27.41 −22.24
06	0005 A06 10.31 28.64 −35.13	0014 B06 15.35 18.78 −34.03	0023 C06 20.4 8.91 −32.93	0032 D06 25.45 −0.95 −31.82	0041 E06 30.5 −10.82 −30.72	0050 F06 35.55 −20.69 −29.62	0059 G06 41.61 −29.83 −24.35	0068 H06 47.66 −38.98 −19.07	0077 I06 53.71 −48.12 −13.8	0086 J06 13.91 33.14 −29.27
07	0006 A07 12.37 34.37 −42.15	0015 B07 17.41 24.51 −41.05	0024 C07 22.46 14.64 −39.95	0033 D07 27.51 4.77 −38.85	0042 E07 32.56 −5.09 −37.75	0051 F07 37.61 −14.96 −36.65	0060 G07 42.66 −24.82 −35.55	0069 H07 48.72 −33.97 −30.27	0078 I07 54.77 −43.11 −25.0	0087 J07 15.97 38.87 −36.29
08	0007 A08 14.42 40.1 −49.18	0016 B08 19.47 30.24 −48.08	0025 C08 24.52 20.37 −46.98	0034 D08 29.57 10.5 −45.88	0043 E08 34.62 0.63 −44.78	0052 F08 39.67 −9.23 −43.68	0061 G08 44.72 −19.09 −42.58	0070 H08 49.77 −28.96 −41.47	0079 I08 55.82 −38.1 −36.2	0088 J08 18.03 44.6 −43.32
09	0008 A09 16.48 45.83 −56.2	0017 B09 21.53 35.96 −55.1	0026 C09 26.58 26.1 −54.0	0035 D09 31.63 16.23 −52.9	0044 E09 36.68 6.36 −51.8	0053 F09 41.73 −3.5 −50.7	0062 G09 46.78 −13.37 −49.6	0071 H09 51.83 −23.24 −48.5	0080 I09 56.87 −33.1 −47.4	0089 J09 20.09 50.32 −50.34
10	0243 A10 16.93 26.75 28.31	0252 B10 22.56 16.51 31.31	0261 C10 28.2 6.27 34.31	0270 D10 33.83 −3.97 37.3	0279 E10 39.89 −13.12 42.58	0288 F10 45.94 −22.27 47.85	0297 G10 52.0 −31.42 53.13	0306 H10 58.05 −40.56 58.41	0315 I10 64.1 −49.71 63.68	0324 J10 22.58 35.67 37.76
11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 −2.65 24.87	0280 E11 40.54 −11.79 30.15	0289 F11 46.59 −20.94 35.43	0298 G11 52.65 −30.09 40.7	0307 H11 58.7 −39.24 45.98	0316 I11 64.75 −48.38 51.25	0325 J11 22.6 36.98 27.16
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 −1.32 12.43	0281 E12 41.19 −10.47 17.71	0290 F12 47.24 −19.62 22.99	0299 G12 53.3 −28.77 28.26	0308 H12 59.35 −37.92 33.54	0317 I12 65.4 −47.06 38.81	0326 J12 22.63 38.29 16.56
13	0246 A13 17.02 30.68 −3.48	0255 B13 23.27 20.46 −2.32	0264 C13 29.52 10.23 −1.16	0273 D13 35.79 0.0 −0.01	0282 E13 41.84 −9.14 5.27	0291 F13 47.89 −18.29 10.55	0300 G13 53.95 −27.44 15.82	0309 H13 60.0 −36.59 21.1	0318 I13 66.05 −45.73 26.37	0327 J13 22.66 39.6 5.95
14	0247 A14 19.08 36.41 −10.51	0256 B14 25.33 26.19 −9.35	0265 C14 31.58 15.96 −8.18	0274 D14 37.84 5.73 −7.02	0283 E14 42.89 −4.13 −5.92	0292 F14 48.94 −13.28 −0.65	0301 G14 55.0 −22.43 4.62	0310 H14 61.05 −31.58 9.9	0319 I14 67.1 −40.72 15.17	0328 J14 22.69 40.91 −4.64
15	0248 A15 21.13 42.14 −17.53	0257 B15 27.39 31.92 −16.37	0266 C15 33.64 21.69 −15.21	0275 D15 39.9 11.46 −14.05	0284 E15 44.95 1.59 −12.95	0293 F15 50.0 −8.27 −11.85	0302 G15 56.05 −17.42 −6.57	0311 H15 62.11 −26.57 −1.3	0320 I15 68.16 −35.71 3.97	0329 J15 24.74 46.64 −11.67
16	0249 A16 23.19 47.87 −24.56	0258 B16 29.44 37.65 −23.4	0267 C16 35.7 27.42 −22.24	0276 D16 41.96 17.19 −21.08	0285 E16 47.01 7.32 −19.98	0294 F16 52.06 −2.54 −18.88	0303 G16 57.11 −12.41 −17.77	0312 H16 63.16 −21.56 −12.5	0321 I16 69.21 −30.7 −7.23	0330 J16 26.8 52.37 −18.69
17	0250 A17 25.25 53.6 −31.59	0259 B17 31.5 43.38 −30.43	0268 C17 37.76 33.15 −29.27	0277 D17 44.02 22.92 −28.11	0286 E17 49.07 13.05 −27.0	0295 F17 54.12 3.18 −25.9	0304 G17 59.17 −6.68 −24.8	0313 H17 64.22 −16.55 −23.7	0322 I17 70.27 −25.69 −18.43	0331 J17 28.86 58.1 −25.72
18	0251 A18 27.31 59.33 −38.61	0260 B18 33.56 49.1 −37.45	0269 C18 39.82 38.87 −36.29	0278 D18 46.07 28.64 −35.13	0287 E18 51.12 18.77 −34.03	0296 F18 56.17 8.9 −32.92	0305 G18 61.22 −0.96 −31.82	0314 H18 66.27 −10.82 −30.72	0323 I18 71.32 −20.69 −29.62	0332 J18 30.92 63.83 −32.74
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 −7.94 74.62	0549 H19 73.72 −17.09 79.89	0558 I19 79.77 −26.23 85.17	0567 J19 39.5 62.44 66.08
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 −6.62 62.19	0550 H20 74.37 −15.77 67.47	0559 I20 80.42 −24.91 72.74	0568 J20 39.53 63.75 55.49
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 −5.3 49.75	0551 H21 75.02 −14.44 55.03	0560 I21 81.07 −23.59 60.3	0569 J21 39.55 65.06 44.89
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 −3.97 37.31	0552 H22 75.66 −13.12 42.59	0561 I22 81.71 −22.26 47.86	0570 J22 39.58 66.37 34.28
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 −2.65 24.87	0553 H23 76.31 −11.79 30.15	0562 I23 82.36 −20.94 35.42	0571 J23 39.61 67.68 23.68
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 −1.32 12.43	0554 H24 76.96 −10.47 17.71	0563 I24 83.01 −19.61 22.98	0572 J24 39.64 68.99 13.07
25	0492 A25 34.02 61.37 −6.96	0501 B25 40.27 51.15 −5.8	0510 C25 46.53 40.92 −4.64	0519 D25 52.79 30.69 −3.48	0528 E25 59.04 20.46 −2.32	0537 F25 65.3 10.23 −1.16	0546 G25 71.56 0.0 −0.01	0555 H25 77.61 −9.14 5.27	0564 I25 83.66 −18.29 10.54	0573 J25 39.66 70.3 2.47
26	0493 A26 36.08 67.1 −13.99	0502 B26 42.33 56.88 −12.83	0511 C26 48.59 46.65 −11.67	0520 D26 54.85 36.42 −10.51	0529 E26 61.1 26.19 −9.35	0538 F26 67.36 15.96 −8.18	0547 G26 73.61 5.73 −7.02	0556 H26 78.66 −4.13 −5.92	0565 I26 84.71 −13.28 −0.65	0574 J26 39.69 71.61 −8.12
27	0494 A27 38.14 72.83 −21.01	0503 B27 44.39 62.61 −19.85	0512 C27 50.65 52.38 −18.69	0521 D27 56.9 42.14 −17.53	0530 E27 63.16 31.91 −16.37	0539 F27 69.41 21.68 −15.21	0548 G27 75.67 11.45 −14.04	0557 H27 80.72 1.58 −12.94	0566 I27 85.77 −8.27 −11.84	0575 J27 41.75 77.33 −15.14

	K	L	M	N	O	P	Q	R	S	T
01	0090 K01 11.28 −1.32 12.42	0099 L01 17.34 −10.47 17.7	0108 M01 23.39 −19.62 22.98	0117 N01 29.45 −28.77 28.25	0126 O01 35.5 −37.91 33.53	0135 P01 41.56 −47.06 38.81	0144 Q01 47.61 −56.21 44.08	0153 R01 53.66 −65.35 49.35	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87
02	0091 K02 11.94 0.0 −0.01	0100 L02 17.99 −9.14 5.27	0109 M02 24.04 −18.29 10.55	0118 N02 30.1 −27.44 15.82	0127 O02 36.15 −36.59 21.1	0136 P02 42.21 −45.74 26.38	0145 Q02 48.26 −54.89 31.65	0154 R02 54.31 −64.03 36.92	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44
03	0092 K03 13.99 5.73 −7.02	0101 L03 19.04 −4.13 −5.92	0110 M03 25.09 −13.28 −0.65	0119 N03 31.15 −22.43 4.62	0128 O03 37.2 −31.58 9.9	0137 P03 43.26 −40.73 15.17	0146 Q03 49.31 −49.88 20.45	0155 R03 55.36 −59.02 25.72	0164 S03 11.35 20.45 −2.32	0173 T03 17.6 10.23 −1.16
04	0093 K04 16.05 11.46 −14.05	0102 L04 21.1 1.59 −12.95	0111 M04 26.15 −8.27 −11.85	0120 N04 32.2 −17.42 −6.57	0129 O04 38.26 −26.57 −1.3	0138 P04 44.31 −35.72 3.97	0147 Q04 50.37 −44.87 9.25	0156 R04 56.42 −54.01 14.52	0165 S04 13.41 26.18 −9.34	0174 T04 19.66 15.96 −8.18
05	0094 K05 18.11 17.19 −21.08	0103 L05 23.16 7.32 −19.98	0112 M05 28.21 −2.54 −18.88	0121 N05 33.26 −12.41 −17.77	0130 O05 39.31 −21.56 −12.5	0139 P05 45.37 −30.71 −7.22	0148 Q05 51.42 −39.86 −1.94	0157 R05 57.47 −49.0 3.32	0166 S05 15.47 31.91 −16.37	0175 T05 21.72 21.69 −15.21
06	0095 K06 20.17 22.92 −28.11	0104 L06 25.22 13.05 −27.0	0113 M06 30.27 3.18 −25.9	0122 N06 35.32 −6.68 −24.8	0131 O06 40.37 −16.55 −23.7	0140 P06 46.42 −25.7 −18.42	0149 Q06 52.48 −34.85 −13.15	0158 R06 58.53 −43.99 −7.88	0167 S06 17.52 37.64 −23.4	0176 T06 23.78 27.42 −22.24
07	0096 K07 22.22 28.65 −35.13	0105 L07 27.27 18.78 −34.03	0114 M07 32.32 8.91 −32.93	0123 N07 37.37 −0.95 −31.83	0132 O07 42.42 −10.82 −30.73	0141 P07 47.47 −20.69 −29.63	0150 Q07 53.53 −29.84 −24.35	0159 R07 59.58 −38.98 −19.08	0168 S07 19.58 43.37 −30.43	0177 T07 25.83 33.15 −29.27
08	0097 K08 24.28 34.38 −42.16	0106 L08 29.33 24.51 −41.06	0115 M08 34.38 14.64 −39.96	0124 N08 39.43 4.77 −38.86	0133 O08 44.48 −5.09 −37.76	0142 P08 49.53 −14.96 −36.65	0151 Q08 54.58 −24.83 −35.55	0160 R08 60.63 −33.97 −30.28	0169 S08 21.64 49.1 −37.45	0178 T08 27.89 38.88 −36.29
09	0098 K09 26.34 40.1 −49.18	0107 L09 31.39 30.23 −48.08	0116 M09 36.44 20.36 −46.98	0125 N09 41.49 10.49 −45.88	0134 O09 46.54 0.63 −44.78	0143 P09 51.59 −9.23 −43.68	0152 Q09 56.64 −19.1 −42.57	0161 R09 61.69 −28.96 −41.47	0170 S09 23.7 54.82 −44.48	0179 T09 29.95 44.6 −43.32
10	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 −5.29 49.74	0369 O10 51.17 −14.44 55.02	0378 P10 57.22 −23.59 60.29	0387 Q10 63.28 −32.74 65.57	0396 R10 69.33 −41.88 70.84	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19
11	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 −3.97 37.31	0370 O11 51.81 −13.12 42.59	0379 P11 57.87 −22.27 47.86	0388 Q11 63.92 −31.42 53.14	0397 R11 69.97 −40.56 58.41	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77
12	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 −2.65 24.87	0371 O12 52.46 −11.79 30.15	0380 P12 58.52 −20.94 35.43	0389 Q12 64.57 −30.09 40.7	0398 R12 70.62 −39.23 45.97	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16
13	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 −1.32 12.43	0372 O13 53.11 −10.47 17.71	0381 P13 59.17 −19.62 22.99	0390 Q13 65.22 −28.77 28.26	0399 R13 71.27 −37.91 33.53	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56
14	0337 K14 28.94 30.69 −3.48	0346 L14 35.19 20.46 −2.32	0355 M14 41.45 10.23 −1.16	0364 N14 47.71 0.0 −0.01	0373 O14 53.76 −9.14 5.27	0382 P14 59.82 −18.29 10.55	0391 Q14 65.87 −27.44 15.82	0400 R14 71.92 −36.58 21.1	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95
15	0338 K15 31.0 36.42 −10.51	0347 L15 37.25 26.19 −9.35	0356 M15 43.51 15.96 −8.18	0365 N15 49.76 5.73 −7.02	0374 O15 54.81 −4.13 −5.92	0383 P15 60.87 −13.28 −0.65	0392 Q15 66.92 −22.43 4.62	0401 R15 72.97 −31.57 9.89	0410 S15 28.35 51.14 −5.8	0419 T15 34.61 40.92 −4.64
16	0339 K16 33.05 42.15 −17.53	0348 L16 39.31 31.92 −16.37	0357 M16 45.57 21.69 −15.21	0366 N16 51.82 11.46 −14.05	0375 O16 56.87 1.59 −12.95	0384 P16 61.92 −8.27 −11.85	0393 Q16 67.98 −17.42 −6.57	0402 R16 74.03 −26.56 −1.3	0411 S16 30.41 56.87 −12.83	0420 T16 36.66 46.65 −11.67
17	0340 K17 35.11 47.88 −24.56	0349 L17 41.37 37.65 −23.4	0358 M17 47.63 27.42 −22.24	0367 N17 53.88 17.19 −21.08	0376 O17 58.93 7.32 −19.98	0385 P17 63.98 −2.54 −18.88	0394 Q17 69.03 −12.41 −17.77	0403 R17 75.08 −21.55 −12.5	0412 S17 32.47 62.6 −19.86	0421 T17 38.72 52.38 −18.7
18	0341 K18 37.17 53.6 −31.58	0350 L18 43.43 43.37 −30.42	0359 M18 49.68 33.14 −29.26	0368 N18 55.94 22.91 −28.1	0377 O18 60.99 13.04 −27.0	0386 P18 66.04 3.17 −25.9	0395 Q18 71.09 −6.69 −24.8	0404 R18 76.13 −16.55 −23.7	0413 S18 34.53 68.33 −26.88	0422 T18 40.78 58.11 −25.72
19	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 −9.27 87.06	0639 R19 84.99 −18.41 92.33	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51
20	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 −7.95 74.63	0640 R20 85.64 −17.09 79.9	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08
21	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 −6.62 62.19	0641 R21 86.29 −15.76 67.46	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48
22	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 −5.3 49.75	0642 R22 86.94 −14.44 55.02	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88
23	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 −3.97 37.31	0643 R23 87.58 −13.11 42.58	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27
24	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 −2.65 24.87	0644 R24 88.23 −11.79 30.14	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67
25	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 −1.32 12.43	0645 R25 88.88 −10.46 17.71	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07
26	0583 K26 45.94 61.38 −6.96	0592 L26 52.2 51.15 −5.8	0601 M26 58.46 40.92 −4.64	0610 N26 64.71 30.69 −3.48	0619 O26 70.97 20.46 −2.32	0628 P26 77.22 10.23 −1.16	0637 Q26 83.49 0.0 −0.01	0646 R26 89.53 −9.14 5.27	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46
27	0584 K27 48.0 67.11 −13.98	0593 L27 54.26 56.88 −12.82	0602 M27 60.51 46.65 −11.66	0611 N27 66.77 36.41 −10.5	0620 O27 73.02 26.18 −9.34	0629 P27 79.28 15.95 −8.18	0638 Q27 85.54 5.72 −7.02	0647 R27 90.58 −4.13 −5.92	0656 S27 45.36 81.83 −9.28	0665 T27 51.61 71.61 −8.12

	U	V	W	X	Y	Z	a	b	c	d
01	0180 U01 22.56 −2.64 24.86	0189 V01 28.61 −11.79 30.14	0198 W01 34.67 −20.94 35.42	0207 X01 40.72 −30.09 40.69	0216 Y01 46.78 −39.24 45.97	0225 Z01 52.83 −48.39 51.24	0234 a01 58.88 −57.53 56.52	0729 b01 95.4 0.0 −0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87
02	0181 U02 23.21 −1.32 12.43	0190 V02 29.26 −10.47 17.71	0199 W02 35.32 −19.62 22.99	0208 X02 41.37 −28.77 28.26	0217 Y02 47.43 −37.92 33.54	0226 Z02 53.48 −47.06 38.82	0235 a02 59.53 −56.21 44.09	0730 b02 90.58 −4.13 −5.92	0739 c02 83.49 0.0 −0.01	0748 d02 77.2 8.92 9.44
03	0182 U03 23.86 0.0 −0.01	0191 V03 29.91 −9.14 5.27	0200 W03 35.96 −18.29 10.55	0209 X03 42.02 −27.44 15.82	0218 Y03 48.08 −36.59 21.1	0227 Z03 54.13 −45.74 26.38	0236 a03 60.18 −54.88 31.65	0731 b03 85.77 −8.27 −11.84	0740 c03 78.66 −4.13 −5.92	0749 d03 71.56 0.0 −0.01
04	0183 U04 25.91 5.73 −7.02	0192 V04 30.96 −4.13 −5.92	0201 W04 37.02 −13.28 −0.65	0210 X04 43.07 −22.43 4.62	0219 Y04 49.13 −31.58 9.9	0228 Z04 55.18 −40.73 15.17	0237 a04 61.23 −49.87 20.45	0732 b04 80.95 −12.41 −17.77	0741 c04 73.85 −8.27 −11.85	0750 d04 66.74 −4.13 −5.92
05	0184 U05 27.97 11.46 −14.05	0193 V05 33.02 1.59 −12.95	0202 W05 38.07 −8.27 −11.85	0211 X05 44.13 −17.42 −6.57	0220 Y05 50.18 −26.57 −1.3	0229 Z05 56.24 −35.72 3.97	0238 a05 62.29 −44.86 9.24	0733 b05 76.13 −16.55 −23.7	0742 c05 69.03 −12.41 −17.77	0751 d05 61.92 −8.27 −11.85
06	0185 U06 30.03 17.19 −21.08	0194 V06 35.08 7.32 −19.98	0203 W06 40.13 −2.54 −18.88	0212 X06 45.18 −12.41 −17.77	0221 Y06 51.24 −21.56 −12.5	0230 Z06 57.29 −30.71 −7.22	0239 a06 63.34 −39.85 −1.95	0734 b06 71.32 −20.69 −29.62	0743 c06 64.22 −16.55 −23.7	0752 d06 57.11 −12.41 −17.77
07	0186 U07 32.09 22.92 −28.11	0195 V07 37.14 13.05 −27.0	0204 W07 42.19 3.18 −25.9	0213 X07 47.24 −6.68 −24.8	0222 Y07 52.29 −16.55 −23.7	0231 Z07 58.35 −25.7 −18.42	0240 a07 64.4 −34.84 −13.15	0735 b07 66.5 −24.82 −35.55	0744 c07 59.4 −20.69 −29.63	0753 d07 52.29 −16.55 −23.7
08	0187 U08 34.15 28.65 −35.13	0196 V08 39.2 18.78 −34.03	0205 W08 44.25 8.91 −32.93	0214 X08 49.3 −0.95 −31.83	0223 Y08 54.35 −10.82 −30.73	0232 Z08 59.4 −20.69 −29.63	0241 a08 65.45 −29.83 −24.35	0736 b08 61.69 −28.96 −41.47	0745 c08 54.58 −24.83 −35.55	0754 d08 47.47 −20.69 −29.63
09	0188 U09 36.21 34.37 −42.15	0197 V09 41.26 24.5 −41.05	0206 W09 46.31 14.63 −39.95	0215 X09 51.36 4.76 −38.85	0224 Y09 56.41 −5.09 −37.75	0233 Z09 61.46 −14.96 −36.65	0242 a09 66.5 −24.82 −35.55	0737 b09 56.87 −33.1 −47.4	0746 c09 49.77 −28.96 −41.47	0755 d09 42.66 −24.82 −35.55
10	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 −6.62 62.18	0459 Y10 62.44 −15.77 67.46	0468 Z10 68.5 −24.92 72.73	0477 a10 74.55 −34.06 78.0	0810 b10 95.4 0.0 −0.01	0819 c10 94.75 −1.32 12.42	0828 d10 94.1 −2.64 24.86
11	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 −5.3 49.75	0460 Y11 63.09 −14.44 55.03	0469 Z11 69.15 −23.59 60.3	0478 a11 75.2 −32.73 65.57	0811 b11 85.54 5.72 −7.02	0820 c11 83.49 0.0 −0.01	0829 d11 82.83 −1.32 12.43
12	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 −3.97 37.31	0461 Y12 63.74 −13.12 42.59	0470 Z12 69.79 −22.27 47.86	0479 a12 75.84 −31.41 53.14	0812 b12 75.67 11.45 −14.04	0821 c12 73.61 5.73 −7.02	0830 d12 71.56 0.0 −0.01
13	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 −2.65 24.87	0462 Y13 64.39 −11.79 30.15	0471 Z13 70.44 −20.94 35.43	0480 a13 76.49 −30.08 40.7	0813 b13 65.8 17.18 −21.07	0822 c13 63.75 11.46 −14.05	0831 d13 61.69 5.73 −7.02
14	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 −1.32 12.43	0463 Y14 65.04 −10.47 17.71	0472 Z14 71.09 −19.62 22.99	0481 a14 77.14 −28.76 28.26	0814 b14 55.94 22.91 −28.1	0823 c14 53.88 17.19 −21.08	0832 d14 51.82 11.46 −14.05
15	0428 U15 40.86 30.69 −3.48	0437 V15 47.12 20.46 −2.32	0446 W15 53.37 10.23 −1.16	0455 X15 59.64 0.0 −0.01	0464 Y15 65.69 −9.14 5.27	0473 Z15 71.74 −18.29 10.55	0482 a15 77.79 −27.43 15.82	0815 b15 46.07 28.64 −35.13	0824 c15 44.02 22.92 −28.11	0833 d15 41.96 17.19 −21.08
16	0429 U16 42.92 36.42 −10.51	0438 V16 49.18 26.19 −9.35	0447 W16 55.43 15.96 −8.18	0456 X16 61.69 5.73 −7.02	0465 Y16 66.74 −4.13 −5.92	0474 Z16 72.79 −13.28 −0.65	0483 a16 78.84 −22.42 4.62	0816 b16 36.21 34.37 −42.15	0825 c16 34.15 28.65 −35.13	0834 d16 32.09 22.92 −28.11
17	0430 U17 44.98 42.15 −17.53	0439 V17 51.24 31.92 −16.37	0448 W17 57.49 21.69 −15.21	0457 X17 63.75 11.46 −14.05	0466 Y17 68.8 1.59 −12.95	0475 Z17 73.85 −8.27 −11.85	0484 a17 79.9 −17.41 −6.58	0817 b17 26.34 40.1 −49.18	0826 c17 24.28 34.38 −42.16	0835 d17 22.22 28.65 −35.13
18	0431 U18 47.04 47.87 −24.56	0440 V18 53.29 37.64 −23.39	0449 W18 59.55 27.41 −22.23	0458 X18 65.8 17.18 −21.07	0467 Y18 70.85 7.31 −19.97	0476 Z18 75.9 −2.55 −18.87	0485 a18 80.95 −12.41 −17.77	0818 b18 16.48 45.83 −56.2	0827 c18 14.42 40.1 −49.18	0836 d18 12.37 34.37 −42.15
19	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 −0.35 96.49	0720 a19 90.21 −10.59 99.49	0891 b19 95.4 0.0 −0.01	0900 c19 89.53 −9.14 5.27	0909 d19 83.66 −18.29 10.54
20	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 −9.27 87.06	0892 b20 89.14 10.22 −1.16	0901 c20 83.49 0.0 −0.01	0910 d20 77.61 −9.14 5.27
21	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 −7.94 74.62	0893 b21 82.89 20.45 −2.32	0902 c21 77.22 10.23 −1.16	0911 d21 71.56 0.0 −0.01
22	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 −6.62 62.18	0894 b22 76.63 30.68 −3.48	0903 c22 70.97 20.46 −2.32	0912 d22 65.3 10.23 −1.16
23	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 −5.29 49.74	0895 b23 70.38 40.91 −4.64	0904 c23 64.71 30.69 −3.48	0913 d23 59.04 20.46 −2.32
24	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 −3.97 37.3	0896 b24 64.12 51.14 −5.8	0905 c24 58.46 40.92 −4.64	0914 d24 52.79 30.69 −3.48
25	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 −2.64 24.86	0897 b25 57.86 61.37 −6.96	0906 c25 52.2 51.15 −5.8	0915 d25 46.53 40.92 −4.64
26	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 −1.32 12.42	0898 b26 51.61 71.61 −8.12	0907 c26 45.94 61.38 −6.96	0916 d26 40.27 51.15 −5.8
27	0674 U27 57.86 61.37 −6.96	0683 V27 64.12 51.14 −5.8	0692 W27 70.38 40.91 −4.64	0701 X27 76.63 30.68 −3.48	0710 Y27 82.89 20.45 −2.32	0719 Z27 89.14 10.22 −1.16	0728 a27 95.4 0.0 −0.01	0899 b27 45.36 81.83 −9.28	0908 c27 39.69 71.61 −8.12	0917 d27 34.02 61.37 −6.96

	e	f	g	h	i	j	k	l	m	n
01	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52	0972 k01 0.02 0.0 −0.01	0981 l01 0.02 0.0 −0.01	0990 m01 0.02 0.0 −0.01	0999 n01 0.02 0.0 −0.01
02	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64	0974 k03 23.86 0.0 −0.01	0983 l03 23.86 0.0 −0.01	0992 m03 23.86 0.0 −0.01	1001 n03 23.86 0.0 −0.01
04	0759 e04 59.64 0.0 −0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0760 e05 54.81 −4.13 −5.92	0769 f05 47.71 0.0 −0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76	0976 k05 47.71 0.0 −0.01	0985 l05 47.71 0.0 −0.01	0994 m05 47.71 0.0 −0.01	1003 n05 47.71 0.0 −0.01
06	0761 e06 50.0 −8.27 −11.85	0770 f06 42.89 −4.13 −5.92	0779 g06 35.79 0.0 −0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0762 e07 45.18 −12.41 −17.77	0771 f07 38.07 −8.27 −11.85	0780 g07 30.96 −4.13 −5.92	0789 h07 23.86 0.0 −0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87	0978 k07 71.56 0.0 −0.01	0987 l07 71.56 0.0 −0.01	0996 m07 71.56 0.0 −0.01	1005 n07 71.56 0.0 −0.01
08	0763 e08 40.37 −16.55 −23.7	0772 f08 33.26 −12.41 −17.77	0781 g08 26.15 −8.27 −11.85	0790 h08 19.04 −4.13 −5.92	0799 i08 11.94 0.0 −0.01	0808 j08 5.65 8.91 9.43	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0764 e09 35.55 −20.69 −29.62	0773 f09 28.44 −16.55 −23.7	0782 g09 21.34 −12.41 −17.77	0791 h09 14.23 −8.27 −11.84	0800 i09 7.12 −4.13 −5.92	0809 j09 0.02 0.0 −0.01	0980 k09 95.4 0.0 −0.01	0989 l09 95.4 0.0 −0.01	0998 m09 95.4 0.0 −0.01	1007 n09 95.4 0.0 −0.01
10	0837 e10 93.45 −3.97 37.3	0846 f10 92.8 −5.29 49.74	0855 g10 92.15 −6.62 62.18	0864 h10 91.5 −7.94 74.62	0873 i10 90.85 −9.27 87.06	0882 j10 90.21 −10.59 99.49	1008 k10 0.02 0.0 −0.01	1024 l10 0.02 0.0 −0.01	1040 m10 0.02 0.0 −0.01	1056 n10 0.02 0.0 −0.01
11	0838 e11 82.18 −2.65 24.87	0847 f11 81.53 −3.97 37.31	0856 g11 80.89 −5.3 49.75	0865 h11 80.24 −6.62 62.19	0874 i11 79.59 −7.95 74.63	0883 j11 78.94 −9.27 87.06	1009 k11 6.37 0.0 −0.01	1025 l11 6.37 0.0 −0.01	1041 m11 6.37 0.0 −0.01	1057 n11 6.37 0.0 −0.01
12	0839 e12 70.91 −1.32 12.43	0848 f12 70.26 −2.65 24.87	0857 g12 69.61 −3.97 37.31	0866 h12 68.96 −5.3 49.75	0875 i12 68.31 −6.62 62.19	0884 j12 67.66 −7.94 74.62	1010 k12 12.73 0.0 −0.01	1026 l12 12.73 0.0 −0.01	1042 m12 12.73 0.0 −0.01	1058 n12 12.73 0.0 −0.01
13	0840 e13 59.64 0.0 −0.01	0849 f13 58.98 −1.32 12.43	0858 g13 58.33 −2.65 24.87	0867 h13 57.68 −3.97 37.31	0876 i13 57.03 −5.3 49.75	0885 j13 56.39 −6.62 62.18	1011 k13 19.09 0.0 −0.01	1027 l13 19.09 0.0 −0.01	1043 m13 19.09 0.0 −0.01	1059 n13 19.09 0.0 −0.01
14	0841 e14 49.76 5.73 −7.02	0850 f14 47.71 0.0 −0.01	0859 g14 47.06 −1.32 12.43	0868 h14 46.41 −2.65 24.87	0877 i14 45.76 −3.97 37.31	0886 j14 45.11 −5.29 49.74	1012 k14 25.45 0.0 −0.01	1028 l14 25.45 0.0 −0.01	1044 m14 25.45 0.0 −0.01	1060 n14 25.45 0.0 −0.01
15	0842 e15 39.9 11.46 −14.05	0851 f15 37.84 5.73 −7.02	0860 g15 35.79 0.0 −0.01	0869 h15 35.13 −1.32 12.43	0878 i15 34.48 −2.65 24.87	0887 j15 33.83 −3.97 37.3	1013 k15 31.81 0.0 −0.01	1029 l15 31.81 0.0 −0.01	1045 m15 31.81 0.0 −0.01	1061 n15 31.81 0.0 −0.01
16	0843 e16 30.03 17.19 −21.08	0852 f16 27.97 11.46 −14.05	0861 g16 25.91 5.73 −7.02	0870 h16 23.86 0.0 −0.01	0879 i16 23.21 −1.32 12.43	0888 j16 22.56 −2.64 24.86	1014 k16 38.17 0.0 −0.01	1030 l16 38.17 0.0 −0.01	1046 m16 38.17 0.0 −0.01	1062 n16 38.17 0.0 −0.01
17	0844 e17 20.17 22.92 −28.11	0853 f17 18.11 17.19 −21.08	0862 g17 16.05 11.46 −14.05	0871 h17 13.99 5.73 −7.02	0880 i17 11.94 0.0 −0.01	0889 j17 11.28 −1.32 12.42	1015 k17 44.53 0.0 −0.01	1031 l17 44.53 0.0 −0.01	1047 m17 44.53 0.0 −0.01	1063 n17 44.53 0.0 −0.01
18	0845 e18 10.31 28.64 −35.13	0854 f18 8.25 22.91 −28.1	0863 g18 6.19 17.18 −21.07	0872 h18 4.13 11.45 −14.04	0881 i18 2.07 5.72 −7.02	0890 j18 0.02 0.0 −0.01	1016 k18 50.89 0.0 −0.01	1032 l18 50.89 0.0 −0.01	1048 m18 50.89 0.0 −0.01	1064 n18 50.89 0.0 −0.01
19	0918 e19 77.79 −27.43 15.82	0927 f19 71.92 −36.58 21.1	0936 g19 66.05 −45.73 26.37	0945 h19 60.18 −54.88 31.65	0954 i19 54.31 −64.03 36.92	0963 j19 48.44 −73.17 42.2	1017 k19 57.25 0.0 −0.01	1033 l19 57.25 0.0 −0.01	1049 m19 57.25 0.0 −0.01	1065 n19 57.25 0.0 −0.01
20	0919 e20 71.74 −18.29 10.55	0928 f20 65.87 −27.44 15.82	0937 g20 60.0 −36.59 21.1	0946 h20 54.13 −45.74 26.38	0955 i20 48.26 −54.89 31.65	0964 j20 42.39 −64.03 36.92	1018 k20 63.61 0.0 −0.01	1034 l20 63.61 0.0 −0.01	1050 m20 63.61 0.0 −0.01	1066 n20 63.61 0.0 −0.01
21	0920 e21 65.69 −9.14 5.27	0929 f21 59.82 −18.29 10.55	0938 g21 53.95 −27.44 15.82	0947 h21 48.08 −36.59 21.1	0956 i21 42.21 −45.74 26.38	0965 j21 36.34 −54.88 31.65	1019 k21 69.97 0.0 −0.01	1035 l21 69.97 0.0 −0.01	1051 m21 69.97 0.0 −0.01	1067 n21 69.97 0.0 −0.01
22	0921 e22 59.64 0.0 −0.01	0930 f22 53.76 −9.14 5.27	0939 g22 47.89 −18.29 10.55	0948 h22 42.02 −27.44 15.82	0957 i22 36.15 −36.59 21.1	0966 j22 30.28 −45.73 26.37	1020 k22 76.33 0.0 −0.01	1036 l22 76.33 0.0 −0.01	1052 m22 76.33 0.0 −0.01	1068 n22 76.33 0.0 −0.01
23	0922 e23 53.37 10.23 −1.16	0931 f23 47.71 0.0 −0.01	0940 g23 41.84 −9.14 5.27	0949 h23 35.96 −18.29 10.55	0958 i23 30.1 −27.44 15.82	0967 j23 24.23 −36.58 21.1	1021 k23 82.69 0.0 −0.01	1037 l23 82.69 0.0 −0.01	1053 m23 82.69 0.0 −0.01	1069 n23 82.69 0.0 −0.01
24	0923 e24 47.12 20.46 −2.32	0932 f24 41.45 10.23 −1.16	0941 g24 35.79 0.0 −0.01	0950 h24 29.91 −9.14 5.27	0959 i24 24.04 −18.29 10.55	0968 j24 18.17 −27.43 15.82	1022 k24 89.05 0.0 −0.01	1038 l24 89.05 0.0 −0.01	1054 m24 89.05 0.0 −0.01	1070 n24 89.05 0.0 −0.01
25	0924 e25 40.86 30.69 −3.48	0933 f25 35.19 20.46 −2.32	0942 g25 29.52 10.23 −1.16	0951 h25 23.86 0.0 −0.01	0960 i25 17.99 −9.14 5.27	0969 j25 12.12 −18.29 10.54	1023 k25 95.4 0.0 −0.01	1039 l25 95.4 0.0 −0.01	1055 m25 95.4 0.0 −0.01	1071 n25 95.4 0.0 −0.01
26	0925 e26 34.61 40.92 −4.64	0934 f26 28.94 30.69 −3.48	0943 g26 23.27 20.46 −2.32	0952 h26 17.6 10.23 −1.16	0961 i26 11.94 0.0 −0.01	0970 j26 6.06 −9.14 5.27	1072 k26 0.02 0.0 −0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 −10.59 99.49	1078 n26 48.44 −73.17 42.2
27	0926 e27 28.35 51.14 −5.8	0935 f27 22.69 40.91 −4.64	0944 g27 17.02 30.68 −3.48	0953 h27 11.35 20.45 −2.32	0962 i27 5.68 10.22 −1.16	0971 j27 0.02 0.0 −0.01	1073 k27 95.4 0.0 −0.01	1075 l27 56.87 −33.1 −47.4	1077 m27 16.48 45.83 −56.2	1079 n27 45.36 81.83 −9.28

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 27/4, OLS52

www.ps.bam.de/ZE50/10L/L50E00NP.PS/.PDF, Page 28/28; OLS70; transfer and output
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)

See for similar files: http://www.ps.bam.de/ZE50/; www.ps.bam.de/ZE.HTM
Technical information: http://www.ps.bam.de Version 2.1, io=1,1

	A	B	C	D	E	F	G	H	I
01	0000 A01 0.02 0.0 −0.01	0009 B01 6.06 −9.14 5.27	0018 C01 12.12 −18.29 10.54	0027 D01 18.17 −27.43 15.82	0036 E01 24.23 −36.58 21.1	0045 F01 30.28 −45.73 26.37	0054 G01 36.34 −54.88 31.65	0063 H01 42.39 −64.03 36.92	0072 I01 48.44 −73.17 42.2
02	0001 A02 2.07 5.72 −7.02	0010 B02 7.12 −4.13 −5.92	0019 C02 13.17 −13.28 −0.64	0028 D02 19.23 −22.43 4.63	0037 E02 25.28 −31.58 9.9	0046 F02 31.34 −40.73 15.18	0055 G02 37.39 −49.87 20.45	0064 H02 43.45 −59.02 25.73	0073 I02 49.5 −68.16 31.0
03	0002 A03 4.13 11.45 −14.04	0011 B03 9.18 1.59 −12.94	0020 C03 14.23 −8.27 −11.84	0029 D03 20.28 −17.42 −6.57	0038 E03 26.34 −26.57 −1.29	0047 F03 32.39 −35.72 3.98	0056 G03 38.45 −44.86 9.25	0065 H03 44.5 −54.01 14.53	0074 I03 50.55 −63.15 19.8
04	0003 A04 6.19 17.18 −21.07	0012 B04 11.24 7.32 −19.97	0021 C04 16.29 −2.54 −18.87	0030 D04 21.34 −12.41 −17.77	0039 E04 27.39 −21.56 −12.49	0048 F04 33.45 −30.71 −7.22	0057 G04 39.5 −39.85 −1.94	0066 H04 45.56 −49.0 3.33	0075 I04 51.61 −58.14 8.6
05	0004 A05 8.25 22.91 −28.1	0013 B05 13.29 13.05 −27.0	0022 C05 18.34 3.18 −25.9	0031 D05 23.39 −6.68 −24.8	0040 E05 28.44 −16.55 −23.7	0049 F05 34.5 −25.7 −18.42	0058 G05 40.55 −34.84 −13.14	0067 H05 46.61 −43.99 −7.87	0076 I05 52.66 −53.13 −2.59
06	0005 A06 10.31 28.64 −35.13	0014 B06 15.35 18.78 −34.03	0023 C06 20.4 8.91 −32.93	0032 D06 25.45 −0.95 −31.82	0041 E06 30.5 −10.82 −30.72	0050 F06 35.55 −20.69 −29.62	0059 G06 41.61 −29.83 −24.35	0068 H06 47.66 −38.98 −19.07	0077 I06 53.71 −48.12 −13.8
07	0006 A07 12.37 34.37 −42.15	0015 B07 17.41 24.51 −41.05	0024 C07 22.46 14.64 −39.95	0033 D07 27.51 4.77 −38.85	0042 E07 32.56 −5.09 −37.75	0051 F07 37.61 −14.96 −36.65	0060 G07 42.66 −24.82 −35.55	0069 H07 48.72 −33.97 −30.27	0078 I07 54.77 −43.11 −25.0
08	0007 A08 14.42 40.1 −49.18	0016 B08 19.47 30.24 −48.08	0025 C08 24.52 20.37 −46.98	0034 D08 29.57 10.5 −45.88	0043 E08 34.62 0.63 −44.78	0052 F08 39.67 −9.23 −43.68	0061 G08 44.72 −19.09 −42.58	0070 H08 49.77 −28.96 −41.47	0079 I08 55.82 −38.1 −36.2
09	0008 A09 16.48 45.83 −56.2	0017 B09 21.53 35.96 −55.1	0026 C09 26.58 26.1 −54.0	0035 D09 31.63 16.23 −52.9	0044 E09 36.68 6.36 −51.8	0053 F09 41.73 −3.5 −50.7	0062 G09 46.78 −13.37 −49.6	0071 H09 51.83 −23.24 −48.5	0080 I09 56.87 −33.1 −47.4
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11	0244 A11 16.96 28.06 17.72	0253 B11 23.21 17.84 18.88	0262 C11 28.85 7.59 21.88	0271 D11 34.48 −2.65 24.87	0280 E11 40.54 −11.79 30.15	0289 F11 46.59 −20.94 35.43	0298 G11 52.65 −30.09 40.7	0307 H11 58.7 −39.24 45.98	0316 I11 64.75 −48.38 51.25
12	0245 A12 16.99 29.37 7.12	0254 B12 23.24 19.15 8.28	0263 C12 29.5 8.92 9.44	0272 D12 35.13 −1.32 12.43	0281 E12 41.19 −10.47 17.71	0290 F12 47.24 −19.62 22.99	0299 G12 53.3 −28.77 28.26	0308 H12 59.35 −37.92 33.54	0317 I12 65.4 −47.06 38.81
13	0246 A13 17.02 30.68 −3.48	0255 B13 23.27 20.46 −2.32	0264 C13 29.52 10.23 −1.16	0273 D13 35.79 0.0 −0.01	0282 E13 41.84 −9.14 5.27	0291 F13 47.89 −18.29 10.55	0300 G13 53.95 −27.44 15.82	0309 H13 60.0 −36.59 21.1	0318 I13 66.05 −45.73 26.37
14	0247 A14 19.08 36.41 −10.51	0256 B14 25.33 26.19 −9.35	0265 C14 31.58 15.96 −8.18	0274 D14 37.84 5.73 −7.02	0283 E14 42.89 −4.13 −5.92	0292 F14 48.94 −13.28 −0.65	0301 G14 55.0 −22.43 4.62	0310 H14 61.05 −31.58 9.9	0319 I14 67.1 −40.72 15.17
15	0248 A15 21.13 42.14 −17.53	0257 B15 27.39 31.92 −16.37	0266 C15 33.64 21.69 −15.21	0275 D15 39.9 11.46 −14.05	0284 E15 44.95 1.59 −12.95	0293 F15 50.0 −8.27 −11.85	0302 G15 56.05 −17.42 −6.57	0311 H15 62.11 −26.57 −1.3	0320 I15 68.16 −35.71 3.97
16	0249 A16 23.19 47.87 −24.56	0258 B16 29.44 37.65 −23.4	0267 C16 35.7 27.42 −22.24	0276 D16 41.96 17.19 −21.08	0285 E16 47.01 7.32 −19.98	0294 F16 52.06 −2.54 −18.88	0303 G16 57.11 −12.41 −17.77	0312 H16 63.16 −21.56 −12.5	0321 I16 69.21 −30.7 −7.23
17	0250 A17 25.25 53.6 −31.59	0259 B17 31.5 43.38 −30.43	0268 C17 37.76 33.15 −29.27	0277 D17 44.02 22.92 −28.11	0286 E17 49.07 13.05 −27.0	0295 F17 54.12 3.18 −25.9	0304 G17 59.17 −6.68 −24.8	0313 H17 64.22 −16.55 −23.7	0322 I17 70.27 −25.69 −18.43
18	0251 A18 27.31 59.33 −38.61	0260 B18 33.56 49.1 −37.45	0269 C18 39.82 38.87 −36.29	0278 D18 46.07 28.64 −35.13	0287 E18 51.12 18.77 −34.03	0296 F18 56.17 8.9 −32.92	0305 G18 61.22 −0.96 −31.82	0314 H18 66.27 −10.82 −30.72	0323 I18 71.32 −20.69 −29.62
19	0486 A19 33.86 53.52 56.64	0495 B19 39.49 43.28 59.64	0504 C19 45.12 33.03 62.63	0513 D19 50.76 22.78 65.63	0522 E19 56.39 12.54 68.63	0531 F19 62.03 2.29 71.62	0540 G19 67.66 −7.94 74.62	0549 H19 73.72 −17.09 79.89	0558 I19 79.77 −26.23 85.17
20	0487 A20 33.89 54.82 46.05	0496 B20 40.14 44.6 47.21	0505 C20 45.77 34.36 50.2	0514 D20 51.41 24.11 53.2	0523 E20 57.04 13.86 56.2	0532 F20 62.68 3.62 59.19	0541 G20 68.31 −6.62 62.19	0550 H20 74.37 −15.77 67.47	0559 I20 80.42 −24.91 72.74
21	0488 A21 33.91 56.13 35.44	0497 B21 40.16 45.91 36.6	0506 C21 46.42 35.68 37.77	0515 D21 52.06 25.43 40.76	0524 E21 57.69 15.19 43.76	0533 F21 63.33 4.94 46.75	0542 G21 68.96 −5.3 49.75	0551 H21 75.02 −14.44 55.03	0560 I21 81.07 −23.59 60.3
22	0489 A22 33.94 57.44 24.84	0498 B22 40.19 47.22 26.0	0507 C22 46.45 36.99 27.16	0516 D22 52.7 26.76 28.32	0525 E22 58.34 16.51 31.32	0534 F22 63.97 6.27 34.32	0543 G22 69.61 −3.97 37.31	0552 H22 75.66 −13.12 42.59	0561 I22 81.71 −22.26 47.86
23	0490 A23 33.97 58.75 14.24	0499 B23 40.22 48.53 15.4	0508 C23 46.48 38.3 16.56	0517 D23 52.73 28.07 17.72	0526 E23 58.99 17.84 18.88	0535 F23 64.62 7.59 21.88	0544 G23 70.26 −2.65 24.87	0553 H23 76.31 −11.79 30.15	0562 I23 82.36 −20.94 35.42
24	0491 A24 34.0 60.06 3.63	0500 B24 40.25 49.84 4.79	0509 C24 46.5 39.61 5.95	0518 D24 52.76 29.38 7.12	0527 E24 59.02 19.15 8.28	0536 F24 65.27 8.92 9.44	0545 G24 70.91 −1.32 12.43	0554 H24 76.96 −10.47 17.71	0563 I24 83.01 −19.61 22.98
25	0492 A25 34.02 61.37 −6.96	0501 B25 40.27 51.15 −5.8	0510 C25 46.53 40.92 −4.64	0519 D25 52.79 30.69 −3.48	0528 E25 59.04 20.46 −2.32	0537 F25 65.3 10.23 −1.16	0546 G25 71.56 0.0 −0.01	0555 H25 77.61 −9.14 5.27	0564 I25 83.66 −18.29 10.54
26	0493 A26 36.08 67.1 −13.99	0502 B26 42.33 56.88 −12.83	0511 C26 48.59 46.65 −11.67	0520 D26 54.85 36.42 −10.51	0529 E26 61.1 26.19 −9.35	0538 F26 67.36 15.96 −8.18	0547 G26 73.61 5.73 −7.02	0556 H26 78.66 −4.13 −5.92	0565 I26 84.71 −13.28 −0.65
27	0494 A27 38.14 72.83 −21.01	0503 B27 44.39 62.61 −19.85	0512 C27 50.65 52.38 −18.69	0521 D27 56.9 42.14 −17.53	0530 E27 63.16 31.91 −16.37	0539 F27 69.41 21.68 −15.21	0548 G27 75.67 11.45 −14.04	0557 H27 80.72 1.58 −12.94	0566 I27 85.77 −8.27 −11.84

	J	K	L	M	N	O	P	Q	R
01	0081 J01 5.65 8.91 9.43	0090 K01 11.28 −1.32 12.42	0099 L01 17.34 −10.47 17.7	0108 M01 23.39 −19.62 22.98	0117 N01 29.45 −28.77 28.25	0126 O01 35.5 −37.91 33.53	0135 P01 41.56 −47.06 38.81	0144 Q01 47.61 −56.21 44.08	0153 R01 53.66 −65.35 49.35
02	0082 J02 5.68 10.22 −1.16	0091 K02 11.94 0.0 −0.01	0100 L02 17.99 −9.14 5.27	0109 M02 24.04 −18.29 10.55	0118 N02 30.1 −27.44 15.82	0127 O02 36.15 −36.59 21.1	0136 P02 42.21 −45.74 26.38	0145 Q02 48.26 −54.89 31.65	0154 R02 54.31 −64.03 36.92
03	0083 J03 7.74 15.95 −8.18	0092 K03 13.99 5.73 −7.02	0101 L03 19.04 −4.13 −5.92	0110 M03 25.09 −13.28 −0.65	0119 N03 31.15 −22.43 4.62	0128 O03 37.2 −31.58 9.9	0137 P03 43.26 −40.73 15.17	0146 Q03 49.31 −49.88 20.45	0155 R03 55.36 −59.02 25.72
04	0084 J04 9.8 21.68 −15.21	0093 K04 16.05 11.46 −14.05	0102 L04 21.1 1.59 −12.95	0111 M04 26.15 −8.27 −11.85	0120 N04 32.2 −17.42 −6.57	0129 O04 38.26 −26.57 −1.3	0138 P04 44.31 −35.72 3.97	0147 Q04 50.37 −44.87 9.25	0156 R04 56.42 −54.01 14.52
05	0085 J05 11.86 27.41 −22.24	0094 K05 18.11 17.19 −21.08	0103 L05 23.16 7.32 −19.98	0112 M05 28.21 −2.54 −18.88	0121 N05 33.26 −12.41 −17.77	0130 O05 39.31 −21.56 −12.5	0139 P05 45.37 −30.71 −7.22	0148 Q05 51.42 −39.86 −1.94	0157 R05 57.47 −49.0 3.32
06	0086 J06 13.91 33.14 −29.27	0095 K06 20.17 22.92 −28.11	0104 L06 25.22 13.05 −27.0	0113 M06 30.27 3.18 −25.9	0122 N06 35.32 −6.68 −24.8	0131 O06 40.37 −16.55 −23.7	0140 P06 46.42 −25.7 −18.42	0149 Q06 52.48 −34.85 −13.15	0158 R06 58.53 −43.99 −7.88
07	0087 J07 15.97 38.87 −36.29	0096 K07 22.22 28.65 −35.13	0105 L07 27.27 18.78 −34.03	0114 M07 32.32 8.91 −32.93	0123 N07 37.37 −0.95 −31.83	0132 O07 42.42 −10.82 −30.73	0141 P07 47.47 −20.69 −29.63	0150 Q07 53.53 −29.84 −24.35	0159 R07 59.58 −38.98 −19.08
08	0088 J08 18.03 44.6 −43.32	0097 K08 24.28 34.38 −42.16	0106 L08 29.33 24.51 −41.06	0115 M08 34.38 14.64 −39.96	0124 N08 39.43 4.77 −38.86	0133 O08 44.48 −5.09 −37.76	0142 P08 49.53 −14.96 −36.65	0151 Q08 54.58 −24.83 −35.55	0160 R08 60.63 −33.97 −30.28
09	0089 J09 20.09 50.32 −50.34	0098 K09 26.34 40.1 −49.18	0107 L09 31.39 30.23 −48.08	0116 M09 36.44 20.36 −46.98	0125 N09 41.49 10.49 −45.88	0134 O09 46.54 0.63 −44.78	0143 P09 51.59 −9.23 −43.68	0152 Q09 56.64 −19.1 −42.57	0161 R09 61.69 −28.96 −41.47
10	0324 J10 22.58 35.67 37.76	0333 K10 28.21 25.43 40.75	0342 L10 33.84 15.19 43.75	0351 M10 39.48 4.94 46.74	0360 N10 45.11 −5.29 49.74	0369 O10 51.17 −14.44 55.02	0378 P10 57.22 −23.59 60.29	0387 Q10 63.28 −32.74 65.57	0396 R10 69.33 −41.88 70.84
11	0325 J11 22.6 36.98 27.16	0334 K11 28.85 26.76 28.32	0343 L11 34.49 16.51 31.32	0352 M11 40.12 6.27 34.32	0361 N11 45.76 −3.97 37.31	0370 O11 51.81 −13.12 42.59	0379 P11 57.87 −22.27 47.86	0388 Q11 63.92 −31.42 53.14	0397 R11 69.97 −40.56 58.41
12	0326 J12 22.63 38.29 16.56	0335 K12 28.88 28.07 17.72	0344 L12 35.14 17.84 18.88	0353 M12 40.77 7.59 21.88	0362 N12 46.41 −2.65 24.87	0371 O12 52.46 −11.79 30.15	0380 P12 58.52 −20.94 35.43	0389 Q12 64.57 −30.09 40.7	0398 R12 70.62 −39.23 45.97
13	0327 J13 22.66 39.6 5.95	0336 K13 28.91 29.38 7.12	0345 L13 35.16 19.15 8.28	0354 M13 41.42 8.92 9.44	0363 N13 47.06 −1.32 12.43	0372 O13 53.11 −10.47 17.71	0381 P13 59.17 −19.62 22.99	0390 Q13 65.22 −28.77 28.26	0399 R13 71.27 −37.91 33.53
14	0328 J14 22.69 40.91 −4.64	0337 K14 28.94 30.69 −3.48	0346 L14 35.19 20.46 −2.32	0355 M14 41.45 10.23 −1.16	0364 N14 47.71 0.0 −0.01	0373 O14 53.76 −9.14 5.27	0382 P14 59.82 −18.29 10.55	0391 Q14 65.87 −27.44 15.82	0400 R14 71.92 −36.58 21.1
15	0329 J15 24.74 46.64 −11.67	0338 K15 31.0 36.42 −10.51	0347 L15 37.25 26.19 −9.35	0356 M15 43.51 15.96 −8.18	0365 N15 49.76 5.73 −7.02	0374 O15 54.81 −4.13 −5.92	0383 P15 60.87 −13.28 −0.65	0392 Q15 66.92 −22.43 4.62	0401 R15 72.97 −31.57 9.89
16	0330 J16 26.8 52.37 −18.69	0339 K16 33.05 42.15 −17.53	0348 L16 39.31 31.92 −16.37	0357 M16 45.57 21.69 −15.21	0366 N16 51.82 11.46 −14.05	0375 O16 56.87 1.59 −12.95	0384 P16 61.92 −8.27 −11.85	0393 Q16 67.98 −17.42 −6.57	0402 R16 74.03 −26.56 −1.3
17	0331 J17 28.86 58.1 −25.72	0340 K17 35.11 47.88 −24.56	0349 L17 41.37 37.65 −23.4	0358 M17 47.63 27.42 −22.24	0367 N17 53.88 17.19 −21.08	0376 O17 58.93 7.32 −19.98	0385 P17 63.98 −2.54 −18.88	0394 Q17 69.03 −12.41 −17.77	0403 R17 75.08 −21.55 −12.5
18	0332 J18 30.92 63.83 −32.74	0341 K18 37.17 53.6 −31.58	0350 L18 43.43 43.37 −30.42	0359 M18 49.68 33.14 −29.26	0368 N18 55.94 22.91 −28.1	0377 O18 60.99 13.04 −27.0	0386 P18 66.04 3.17 −25.9	0395 Q18 71.09 −6.69 −24.8	0404 R18 76.13 −16.55 −23.7
19	0567 J19 39.5 62.44 66.08	0576 K19 45.13 52.2 69.08	0585 L19 50.76 41.95 72.08	0594 M19 56.4 31.71 75.07	0603 N19 62.03 21.46 78.07	0612 O19 67.67 11.21 81.06	0621 P19 73.3 0.97 84.06	0630 Q19 78.94 −9.27 87.06	0639 R19 84.99 −18.41 92.33
20	0568 J20 39.53 63.75 55.49	0577 K20 45.78 53.52 56.65	0586 L20 51.41 43.28 59.65	0595 M20 57.05 33.03 62.64	0604 N20 62.68 22.78 65.64	0613 O20 68.32 12.54 68.64	0622 P20 73.95 2.29 71.63	0631 Q20 79.59 −7.95 74.63	0640 R20 85.64 −17.09 79.9
21	0569 J21 39.55 65.06 44.89	0578 K21 45.81 54.83 46.05	0587 L21 52.06 44.6 47.21	0596 M21 57.7 34.36 50.2	0605 N21 63.33 24.11 53.2	0614 O21 68.97 13.86 56.2	0623 P21 74.6 3.62 59.19	0632 Q21 80.24 −6.62 62.19	0641 R21 86.29 −15.76 67.46
22	0570 J22 39.58 66.37 34.28	0579 K22 45.83 56.14 35.44	0588 L22 52.09 45.91 36.6	0597 M22 58.35 35.68 37.77	0606 N22 63.98 25.43 40.76	0615 O22 69.62 15.19 43.76	0624 P22 75.25 4.94 46.75	0633 Q22 80.89 −5.3 49.75	0642 R22 86.94 −14.44 55.02
23	0571 J23 39.61 67.68 23.68	0580 K23 45.86 57.45 24.84	0589 L23 52.12 47.22 26.0	0598 M23 58.37 36.99 27.16	0607 N23 64.63 26.76 28.32	0616 O23 70.26 16.51 31.32	0625 P23 75.9 6.27 34.32	0634 Q23 81.53 −3.97 37.31	0643 R23 87.58 −13.11 42.58
24	0572 J24 39.64 68.99 13.07	0581 K24 45.89 58.76 14.24	0590 L24 52.14 48.53 15.4	0599 M24 58.4 38.3 16.56	0608 N24 64.66 28.07 17.72	0617 O24 70.91 17.84 18.88	0626 P24 76.55 7.59 21.88	0635 Q24 82.18 −2.65 24.87	0644 R24 88.23 −11.79 30.14
25	0573 J25 39.66 70.3 2.47	0582 K25 45.92 60.07 3.63	0591 L25 52.17 49.84 4.79	0600 M25 58.43 39.61 5.95	0609 N25 64.68 29.38 7.12	0618 O25 70.94 19.15 8.28	0627 P25 77.2 8.92 9.44	0636 Q25 82.83 −1.32 12.43	0645 R25 88.88 −10.46 17.71
26	0574 J26 39.69 71.61 −8.12	0583 K26 45.94 61.38 −6.96	0592 L26 52.2 51.15 −5.8	0601 M26 58.46 40.92 −4.64	0610 N26 64.71 30.69 −3.48	0619 O26 70.97 20.46 −2.32	0628 P26 77.22 10.23 −1.16	0637 Q26 83.49 0.0 −0.01	0646 R26 89.53 −9.14 5.27
27	0575 J27 41.75 77.33 −15.14	0584 K27 48.0 67.11 −13.98	0593 L27 54.26 56.88 −12.82	0602 M27 60.51 46.65 −11.66	0611 N27 66.77 36.41 −10.5	0620 O27 73.02 26.18 −9.34	0629 P27 79.28 15.95 −8.18	0638 Q27 85.54 5.72 −7.02	0647 R27 90.58 −4.13 −5.92

	S	T	U	V	W	X	Y	Z	a
01	0162 S01 11.29 17.83 18.87	0171 T01 16.92 7.59 21.87	0180 U01 22.56 −2.64 24.86	0189 V01 28.61 −11.79 30.14	0198 W01 34.67 −20.94 35.42	0207 X01 40.72 −30.09 40.69	0216 Y01 46.78 −39.24 45.97	0225 Z01 52.83 −48.39 51.24	0234 a01 58.88 −57.53 56.52
02	0163 S02 11.32 19.14 8.28	0172 T02 17.57 8.92 9.44	0181 U02 23.21 −1.32 12.43	0190 V02 29.26 −10.47 17.71	0199 W02 35.32 −19.62 22.99	0208 X02 41.37 −28.77 28.26	0217 Y02 47.43 −37.92 33.54	0226 Z02 53.48 −47.06 38.82	0235 a02 59.53 −56.21 44.09
03	0164 S03 11.35 20.45 −2.32	0173 T03 17.6 10.23 −1.16	0182 U03 23.86 0.0 −0.01	0191 V03 29.91 −9.14 5.27	0200 W03 35.96 −18.29 10.55	0209 X03 42.02 −27.44 15.82	0218 Y03 48.08 −36.59 21.1	0227 Z03 54.13 −45.74 26.38	0236 a03 60.18 −54.88 31.65
04	0165 S04 13.41 26.18 −9.34	0174 T04 19.66 15.96 −8.18	0183 U04 25.91 5.73 −7.02	0192 V04 30.96 −4.13 −5.92	0201 W04 37.02 −13.28 −0.65	0210 X04 43.07 −22.43 4.62	0219 Y04 49.13 −31.58 9.9	0228 Z04 55.18 −40.73 15.17	0237 a04 61.23 −49.87 20.45
05	0166 S05 15.47 31.91 −16.37	0175 T05 21.72 21.69 −15.21	0184 U05 27.97 11.46 −14.05	0193 V05 33.02 1.59 −12.95	0202 W05 38.07 −8.27 −11.85	0211 X05 44.13 −17.42 −6.57	0220 Y05 50.18 −26.57 −1.3	0229 Z05 56.24 −35.72 3.97	0238 a05 62.29 −44.86 9.24
06	0167 S06 17.52 37.64 −23.4	0176 T06 23.78 27.42 −22.24	0185 U06 30.03 17.19 −21.08	0194 V06 35.08 7.32 −19.98	0203 W06 40.13 −2.54 −18.88	0212 X06 45.18 −12.41 −17.77	0221 Y06 51.24 −21.56 −12.5	0230 Z06 57.29 −30.71 −7.22	0239 a06 63.34 −39.85 −1.95
07	0168 S07 19.58 43.37 −30.43	0177 T07 25.83 33.15 −29.27	0186 U07 32.09 22.92 −28.11	0195 V07 37.14 13.05 −27.0	0204 W07 42.19 3.18 −25.9	0213 X07 47.24 −6.68 −24.8	0222 Y07 52.29 −16.55 −23.7	0231 Z07 58.35 −25.7 −18.42	0240 a07 64.4 −34.84 −13.15
08	0169 S08 21.64 49.1 −37.45	0178 T08 27.89 38.88 −36.29	0187 U08 34.15 28.65 −35.13	0196 V08 39.2 18.78 −34.03	0205 W08 44.25 8.91 −32.93	0214 X08 49.3 −0.95 −31.83	0223 Y08 54.35 −10.82 −30.73	0232 Z08 59.4 −20.69 −29.63	0241 a08 65.45 −29.83 −24.35
09	0170 S09 23.7 54.82 −44.48	0179 T09 29.95 44.6 −43.32	0188 U09 36.21 34.37 −42.15	0197 V09 41.26 24.5 −41.05	0206 W09 46.31 14.63 −39.95	0215 X09 51.36 4.76 −38.85	0224 Y09 56.41 −5.09 −37.75	0233 Z09 61.46 −14.96 −36.65	0242 a09 66.5 −24.82 −35.55
10	0405 S10 28.22 44.59 47.2	0414 T10 33.85 34.36 50.19	0423 U10 39.48 24.11 53.19	0432 V10 45.12 13.86 56.19	0441 W10 50.75 3.62 59.18	0450 X10 56.39 −6.62 62.18	0459 Y10 62.44 −15.77 67.46	0468 Z10 68.5 −24.92 72.73	0477 a10 74.55 −34.06 78.0
11	0406 S11 28.24 45.9 36.6	0415 T11 34.5 35.68 37.77	0424 U11 40.13 25.43 40.76	0433 V11 45.77 15.19 43.76	0442 W11 51.4 4.94 46.75	0451 X11 57.03 −5.3 49.75	0460 Y11 63.09 −14.44 55.03	0469 Z11 69.15 −23.59 60.3	0478 a11 75.2 −32.73 65.57
12	0407 S12 28.27 47.21 26.0	0416 T12 34.52 36.99 27.16	0425 U12 40.78 26.76 28.32	0434 V12 46.41 16.51 31.32	0443 W12 52.05 6.27 34.32	0452 X12 57.68 −3.97 37.31	0461 Y12 63.74 −13.12 42.59	0470 Z12 69.79 −22.27 47.86	0479 a12 75.84 −31.41 53.14
13	0408 S13 28.3 48.52 15.4	0417 T13 34.55 38.3 16.56	0426 U13 40.81 28.07 17.72	0435 V13 47.06 17.84 18.88	0444 W13 52.7 7.59 21.88	0453 X13 58.33 −2.65 24.87	0462 Y13 64.39 −11.79 30.15	0471 Z13 70.44 −20.94 35.43	0480 a13 76.49 −30.08 40.7
14	0409 S14 28.33 49.83 4.79	0418 T14 34.58 39.61 5.95	0427 U14 40.83 29.38 7.12	0436 V14 47.09 19.15 8.28	0445 W14 53.35 8.92 9.44	0454 X14 58.98 −1.32 12.43	0463 Y14 65.04 −10.47 17.71	0472 Z14 71.09 −19.62 22.99	0481 a14 77.14 −28.76 28.26
15	0410 S15 28.35 51.14 −5.8	0419 T15 34.61 40.92 −4.64	0428 U15 40.86 30.69 −3.48	0437 V15 47.12 20.46 −2.32	0446 W15 53.37 10.23 −1.16	0455 X15 59.64 0.0 −0.01	0464 Y15 65.69 −9.14 5.27	0473 Z15 71.74 −18.29 10.55	0482 a15 77.79 −27.43 15.82
16	0411 S16 30.41 56.87 −12.83	0420 T16 36.66 46.65 −11.67	0429 U16 42.92 36.42 −10.51	0438 V16 49.18 26.19 −9.35	0447 W16 55.43 15.96 −8.18	0456 X16 61.69 5.73 −7.02	0465 Y16 66.74 −4.13 −5.92	0474 Z16 72.79 −13.28 −0.65	0483 a16 78.84 −22.42 4.62
17	0412 S17 32.47 62.6 −19.86	0421 T17 38.72 52.38 −18.7	0430 U17 44.98 42.15 −17.53	0439 V17 51.24 31.92 −16.37	0448 W17 57.49 21.69 −15.21	0457 X17 63.75 11.46 −14.05	0466 Y17 68.8 1.59 −12.95	0475 Z17 73.85 −8.27 −11.85	0484 a17 79.9 −17.41 −6.58
18	0413 S18 34.53 68.33 −26.88	0422 T18 40.78 58.11 −25.72	0431 U18 47.04 47.87 −24.56	0440 V18 53.29 37.64 −23.39	0449 W18 59.55 27.41 −22.23	0458 X18 65.8 17.18 −21.07	0467 Y18 70.85 7.31 −19.97	0476 Z18 75.9 −2.55 −18.87	0485 a18 80.95 −12.41 −17.77
19	0648 S19 45.14 71.35 75.52	0657 T19 50.77 61.11 78.51	0666 U19 56.4 50.87 81.51	0675 V19 62.04 40.62 84.51	0684 W19 67.67 30.37 87.5	0693 X19 73.31 20.13 90.5	0702 Y19 78.94 9.88 93.5	0711 Z19 84.58 −0.35 96.49	0720 a19 90.21 −10.59 99.49
20	0649 S20 45.16 72.66 64.92	0658 T20 51.41 62.44 66.08	0667 U20 57.05 52.19 69.08	0676 V20 62.68 41.94 72.08	0685 W20 68.32 31.7 75.07	0694 X20 73.95 21.45 78.07	0703 Y20 79.59 11.21 81.07	0712 Z20 85.22 0.96 84.06	0721 a20 90.85 −9.27 87.06
21	0650 S21 45.19 73.97 54.32	0659 T21 51.44 63.75 55.48	0668 U21 57.7 53.52 56.64	0677 V21 63.33 43.27 59.64	0686 W21 68.97 33.02 62.63	0695 X21 74.6 22.78 65.63	0704 Y21 80.24 12.53 68.63	0713 Z21 85.87 2.28 71.62	0722 a21 91.5 −7.94 74.62
22	0651 S22 45.22 75.28 43.72	0660 T22 51.47 65.06 44.88	0669 U22 57.73 54.83 46.04	0678 V22 63.98 44.59 47.2	0687 W22 69.62 34.35 50.2	0696 X22 75.25 24.1 53.19	0705 Y22 80.89 13.86 56.19	0714 Z22 86.52 3.61 59.18	0723 a22 92.15 −6.62 62.18
23	0652 S23 45.25 76.59 33.11	0661 T23 51.5 66.37 34.27	0670 U23 57.75 56.14 35.43	0679 V23 64.01 45.9 36.6	0688 W23 70.27 35.67 37.76	0697 X23 75.9 25.43 40.75	0706 Y23 81.54 15.18 43.75	0715 Z23 87.17 4.93 46.75	0724 a23 92.8 −5.29 49.74
24	0653 S24 45.27 77.9 22.51	0662 T24 51.52 67.68 23.67	0671 U24 57.78 57.45 24.83	0680 V24 64.04 47.21 25.99	0689 W24 70.29 36.98 27.15	0698 X24 76.55 26.75 28.31	0707 Y24 82.18 16.51 31.31	0716 Z24 87.82 6.26 34.31	0725 a24 93.45 −3.97 37.3
25	0654 S25 45.3 79.21 11.91	0663 T25 51.55 68.99 13.07	0672 U25 57.81 58.76 14.23	0681 V25 64.06 48.52 15.39	0690 W25 70.32 38.29 16.55	0699 X25 76.58 28.06 17.71	0708 Y25 82.83 17.83 18.87	0717 Z25 88.47 7.58 21.87	0726 a25 94.1 −2.64 24.86
26	0655 S26 45.33 80.52 1.3	0664 T26 51.58 70.3 2.46	0673 U26 57.84 60.07 3.62	0682 V26 64.09 49.83 4.78	0691 W26 70.35 39.6 5.95	0700 X26 76.6 29.37 7.11	0709 Y26 82.86 19.14 8.27	0718 Z26 89.12 8.91 9.43	0727 a26 94.75 −1.32 12.42
27	0656 S27 45.36 81.83 −9.28	0665 T27 51.61 71.61 −8.12	0674 U27 57.86 61.37 −6.96	0683 V27 64.12 51.14 −5.8	0692 W27 70.38 40.91 −4.64	0701 X27 76.63 30.68 −3.48	0710 Y27 82.89 20.45 −2.32	0719 Z27 89.14 10.22 −1.16	0728 a27 95.4 0.0 −0.01

	b	c	d	e	f	g	h	i	j
01	0729 b01 95.4 0.0 −0.01	0738 c01 89.12 8.91 9.43	0747 d01 82.83 17.83 18.87	0756 e01 76.55 26.75 28.31	0765 f01 70.27 35.67 37.76	0774 g01 63.98 44.59 47.2	0783 h01 57.7 53.52 56.64	0792 i01 51.41 62.44 66.08	0801 j01 45.14 71.35 75.52
02	0730 b02 90.58 −4.13 −5.92	0739 c02 83.49 0.0 −0.01	0748 d02 77.2 8.92 9.44	0757 e02 70.91 17.84 18.88	0766 f02 64.63 26.76 28.32	0775 g02 58.35 35.68 37.77	0784 h02 52.06 44.6 47.21	0793 i02 45.78 53.52 56.65	0802 j02 39.5 62.44 66.08
03	0731 b03 85.77 −8.27 −11.84	0740 c03 78.66 −4.13 −5.92	0749 d03 71.56 0.0 −0.01	0758 e03 65.27 8.92 9.44	0767 f03 58.99 17.84 18.88	0776 g03 52.7 26.76 28.32	0785 h03 46.42 35.68 37.77	0794 i03 40.14 44.6 47.21	0803 j03 33.86 53.52 56.64
04	0732 b04 80.95 −12.41 −17.77	0741 c04 73.85 −8.27 −11.85	0750 d04 66.74 −4.13 −5.92	0759 e04 59.64 0.0 −0.01	0768 f04 53.35 8.92 9.44	0777 g04 47.06 17.84 18.88	0786 h04 40.78 26.76 28.32	0795 i04 34.5 35.68 37.77	0804 j04 28.22 44.59 47.2
05	0733 b05 76.13 −16.55 −23.7	0742 c05 69.03 −12.41 −17.77	0751 d05 61.92 −8.27 −11.85	0760 e05 54.81 −4.13 −5.92	0769 f05 47.71 0.0 −0.01	0778 g05 41.42 8.92 9.44	0787 h05 35.14 17.84 18.88	0796 i05 28.85 26.76 28.32	0805 j05 22.58 35.67 37.76
06	0734 b06 71.32 −20.69 −29.62	0743 c06 64.22 −16.55 −23.7	0752 d06 57.11 −12.41 −17.77	0761 e06 50.0 −8.27 −11.85	0770 f06 42.89 −4.13 −5.92	0779 g06 35.79 0.0 −0.01	0788 h06 29.5 8.92 9.44	0797 i06 23.21 17.84 18.88	0806 j06 16.93 26.75 28.31
07	0735 b07 66.5 −24.82 −35.55	0744 c07 59.4 −20.69 −29.63	0753 d07 52.29 −16.55 −23.7	0762 e07 45.18 −12.41 −17.77	0771 f07 38.07 −8.27 −11.85	0780 g07 30.96 −4.13 −5.92	0789 h07 23.86 0.0 −0.01	0798 i07 17.57 8.92 9.44	0807 j07 11.29 17.83 18.87
08	0736 b08 61.69 −28.96 −41.47	0745 c08 54.58 −24.83 −35.55	0754 d08 47.47 −20.69 −29.63	0763 e08 40.37 −16.55 −23.7	0772 f08 33.26 −12.41 −17.77	0781 g08 26.15 −8.27 −11.85	0790 h08 19.04 −4.13 −5.92	0799 i08 11.94 0.0 −0.01	0808 j08 5.65 8.91 9.43
09	0737 b09 56.87 −33.1 −47.4	0746 c09 49.77 −28.96 −41.47	0755 d09 42.66 −24.82 −35.55	0764 e09 35.55 −20.69 −29.62	0773 f09 28.44 −16.55 −23.7	0782 g09 21.34 −12.41 −17.77	0791 h09 14.23 −8.27 −11.84	0800 i09 7.12 −4.13 −5.92	0809 j09 0.02 0.0 −0.01
10	0810 b10 95.4 0.0 −0.01	0819 c10 94.75 −1.32 12.42	0828 d10 94.1 −2.64 24.86	0837 e10 93.45 −3.97 37.3	0846 f10 92.8 −5.29 49.74	0855 g10 92.15 −6.62 62.18	0864 h10 91.5 −7.94 74.62	0873 i10 90.85 −9.27 87.06	0882 j10 90.21 −10.59 99.49
11	0811 b11 85.54 5.72 −7.02	0820 c11 83.49 0.0 −0.01	0829 d11 82.83 −1.32 12.43	0838 e11 82.18 −2.65 24.87	0847 f11 81.53 −3.97 37.31	0856 g11 80.89 −5.3 49.75	0865 h11 80.24 −6.62 62.19	0874 i11 79.59 −7.95 74.63	0883 j11 78.94 −9.27 87.06
12	0812 b12 75.67 11.45 −14.04	0821 c12 73.61 5.73 −7.02	0830 d12 71.56 0.0 −0.01	0839 e12 70.91 −1.32 12.43	0848 f12 70.26 −2.65 24.87	0857 g12 69.61 −3.97 37.31	0866 h12 68.96 −5.3 49.75	0875 i12 68.31 −6.62 62.19	0884 j12 67.66 −7.94 74.62
13	0813 b13 65.8 17.18 −21.07	0822 c13 63.75 11.46 −14.05	0831 d13 61.69 5.73 −7.02	0840 e13 59.64 0.0 −0.01	0849 f13 58.98 −1.32 12.43	0858 g13 58.33 −2.65 24.87	0867 h13 57.68 −3.97 37.31	0876 i13 57.03 −5.3 49.75	0885 j13 56.39 −6.62 62.18
14	0814 b14 55.94 22.91 −28.1	0823 c14 53.88 17.19 −21.08	0832 d14 51.82 11.46 −14.05	0841 e14 49.76 5.73 −7.02	0850 f14 47.71 0.0 −0.01	0859 g14 47.06 −1.32 12.43	0868 h14 46.41 −2.65 24.87	0877 i14 45.76 −3.97 37.31	0886 j14 45.11 −5.29 49.74
15	0815 b15 46.07 28.64 −35.13	0824 c15 44.02 22.92 −28.11	0833 d15 41.96 17.19 −21.08	0842 e15 39.9 11.46 −14.05	0851 f15 37.84 5.73 −7.02	0860 g15 35.79 0.0 −0.01	0869 h15 35.13 −1.32 12.43	0878 i15 34.48 −2.65 24.87	0887 j15 33.83 −3.97 37.3
16	0816 b16 36.21 34.37 −42.15	0825 c16 34.15 28.65 −35.13	0834 d16 32.09 22.92 −28.11	0843 e16 30.03 17.19 −21.08	0852 f16 27.97 11.46 −14.05	0861 g16 25.91 5.73 −7.02	0870 h16 23.86 0.0 −0.01	0879 i16 23.21 −1.32 12.43	0888 j16 22.56 −2.64 24.86
17	0817 b17 26.34 40.1 −49.18	0826 c17 24.28 34.38 −42.16	0835 d17 22.22 28.65 −35.13	0844 e17 20.17 22.92 −28.11	0853 f17 18.11 17.19 −21.08	0862 g17 16.05 11.46 −14.05	0871 h17 13.99 5.73 −7.02	0880 i17 11.94 0.0 −0.01	0889 j17 11.28 −1.32 12.42
18	0818 b18 16.48 45.83 −56.2	0827 c18 14.42 40.1 −49.18	0836 d18 12.37 34.37 −42.15	0845 e18 10.31 28.64 −35.13	0854 f18 8.25 22.91 −28.1	0863 g18 6.19 17.18 −21.07	0872 h18 4.13 11.45 −14.04	0881 i18 2.07 5.72 −7.02	0890 j18 0.02 0.0 −0.01
19	0891 b19 95.4 0.0 −0.01	0900 c19 89.53 −9.14 5.27	0909 d19 83.66 −18.29 10.54	0918 e19 77.79 −27.43 15.82	0927 f19 71.92 −36.58 21.1	0936 g19 66.05 −45.73 26.37	0945 h19 60.18 −54.88 31.65	0954 i19 54.31 −64.03 36.92	0963 j19 48.44 −73.17 42.2
20	0892 b20 89.14 10.22 −1.16	0901 c20 83.49 0.0 −0.01	0910 d20 77.61 −9.14 5.27	0919 e20 71.74 −18.29 10.55	0928 f20 65.87 −27.44 15.82	0937 g20 60.0 −36.59 21.1	0946 h20 54.13 −45.74 26.38	0955 i20 48.26 −54.89 31.65	0964 j20 42.39 −64.03 36.92
21	0893 b21 82.89 20.45 −2.32	0902 c21 77.22 10.23 −1.16	0911 d21 71.56 0.0 −0.01	0920 e21 65.69 −9.14 5.27	0929 f21 59.82 −18.29 10.55	0938 g21 53.95 −27.44 15.82	0947 h21 48.08 −36.59 21.1	0956 i21 42.21 −45.74 26.38	0965 j21 36.34 −54.88 31.65
22	0894 b22 76.63 30.68 −3.48	0903 c22 70.97 20.46 −2.32	0912 d22 65.3 10.23 −1.16	0921 e22 59.64 0.0 −0.01	0930 f22 53.76 −9.14 5.27	0939 g22 47.89 −18.29 10.55	0948 h22 42.02 −27.44 15.82	0957 i22 36.15 −36.59 21.1	0966 j22 30.28 −45.73 26.37
23	0895 b23 70.38 40.91 −4.64	0904 c23 64.71 30.69 −3.48	0913 d23 59.04 20.46 −2.32	0922 e23 53.37 10.23 −1.16	0931 f23 47.71 0.0 −0.01	0940 g23 41.84 −9.14 5.27	0949 h23 35.96 −18.29 10.55	0958 i23 30.1 −27.44 15.82	0967 j23 24.23 −36.58 21.1
24	0896 b24 64.12 51.14 −5.8	0905 c24 58.46 40.92 −4.64	0914 d24 52.79 30.69 −3.48	0923 e24 47.12 20.46 −2.32	0932 f24 41.45 10.23 −1.16	0941 g24 35.79 0.0 −0.01	0950 h24 29.91 −9.14 5.27	0959 i24 24.04 −18.29 10.55	0968 j24 18.17 −27.43 15.82
25	0897 b25 57.86 61.37 −6.96	0906 c25 52.2 51.15 −5.8	0915 d25 46.53 40.92 −4.64	0924 e25 40.86 30.69 −3.48	0933 f25 35.19 20.46 −2.32	0942 g25 29.52 10.23 −1.16	0951 h25 23.86 0.0 −0.01	0960 i25 17.99 −9.14 5.27	0969 j25 12.12 −18.29 10.54
26	0898 b26 51.61 71.61 −8.12	0907 c26 45.94 61.38 −6.96	0916 d26 40.27 51.15 −5.8	0925 e26 34.61 40.92 −4.64	0934 f26 28.94 30.69 −3.48	0943 g26 23.27 20.46 −2.32	0952 h26 17.6 10.23 −1.16	0961 i26 11.94 0.0 −0.01	0970 j26 6.06 −9.14 5.27
27	0899 b27 45.36 81.83 −9.28	0908 c27 39.69 71.61 −8.12	0917 d27 34.02 61.37 −6.96	0926 e27 28.35 51.14 −5.8	0935 f27 22.69 40.91 −4.64	0944 g27 17.02 30.68 −3.48	0953 h27 11.35 20.45 −2.32	0962 i27 5.68 10.22 −1.16	0971 j27 0.02 0.0 −0.01

	k	l	m	n
01	0972 k01 0.02 0.0 −0.01	0981 l01 0.02 0.0 −0.01	0990 m01 0.02 0.0 −0.01	0999 n01 0.02 0.0 −0.01
02	0973 k02 11.94 0.0 −0.01	0982 l02 11.94 0.0 −0.01	0991 m02 11.94 0.0 −0.01	1000 n02 11.94 0.0 −0.01
03	0974 k03 23.86 0.0 −0.01	0983 l03 23.86 0.0 −0.01	0992 m03 23.86 0.0 −0.01	1001 n03 23.86 0.0 −0.01
04	0975 k04 35.79 0.0 −0.01	0984 l04 35.79 0.0 −0.01	0993 m04 35.79 0.0 −0.01	1002 n04 35.79 0.0 −0.01
05	0976 k05 47.71 0.0 −0.01	0985 l05 47.71 0.0 −0.01	0994 m05 47.71 0.0 −0.01	1003 n05 47.71 0.0 −0.01
06	0977 k06 59.64 0.0 −0.01	0986 l06 59.64 0.0 −0.01	0995 m06 59.64 0.0 −0.01	1004 n06 59.64 0.0 −0.01
07	0978 k07 71.56 0.0 −0.01	0987 l07 71.56 0.0 −0.01	0996 m07 71.56 0.0 −0.01	1005 n07 71.56 0.0 −0.01
08	0979 k08 83.49 0.0 −0.01	0988 l08 83.49 0.0 −0.01	0997 m08 83.49 0.0 −0.01	1006 n08 83.49 0.0 −0.01
09	0980 k09 95.4 0.0 −0.01	0989 l09 95.4 0.0 −0.01	0998 m09 95.4 0.0 −0.01	1007 n09 95.4 0.0 −0.01
10	1008 k10 0.02 0.0 −0.01	1024 l10 0.02 0.0 −0.01	1040 m10 0.02 0.0 −0.01	1056 n10 0.02 0.0 −0.01
11	1009 k11 6.37 0.0 −0.01	1025 l11 6.37 0.0 −0.01	1041 m11 6.37 0.0 −0.01	1057 n11 6.37 0.0 −0.01
12	1010 k12 12.73 0.0 −0.01	1026 l12 12.73 0.0 −0.01	1042 m12 12.73 0.0 −0.01	1058 n12 12.73 0.0 −0.01
13	1011 k13 19.09 0.0 −0.01	1027 l13 19.09 0.0 −0.01	1043 m13 19.09 0.0 −0.01	1059 n13 19.09 0.0 −0.01
14	1012 k14 25.45 0.0 −0.01	1028 l14 25.45 0.0 −0.01	1044 m14 25.45 0.0 −0.01	1060 n14 25.45 0.0 −0.01
15	1013 k15 31.81 0.0 −0.01	1029 l15 31.81 0.0 −0.01	1045 m15 31.81 0.0 −0.01	1061 n15 31.81 0.0 −0.01
16	1014 k16 38.17 0.0 −0.01	1030 l16 38.17 0.0 −0.01	1046 m16 38.17 0.0 −0.01	1062 n16 38.17 0.0 −0.01
17	1015 k17 44.53 0.0 −0.01	1031 l17 44.53 0.0 −0.01	1047 m17 44.53 0.0 −0.01	1063 n17 44.53 0.0 −0.01
18	1016 k18 50.89 0.0 −0.01	1032 l18 50.89 0.0 −0.01	1048 m18 50.89 0.0 −0.01	1064 n18 50.89 0.0 −0.01
19	1017 k19 57.25 0.0 −0.01	1033 l19 57.25 0.0 −0.01	1049 m19 57.25 0.0 −0.01	1065 n19 57.25 0.0 −0.01
20	1018 k20 63.61 0.0 −0.01	1034 l20 63.61 0.0 −0.01	1050 m20 63.61 0.0 −0.01	1066 n20 63.61 0.0 −0.01
21	1019 k21 69.97 0.0 −0.01	1035 l21 69.97 0.0 −0.01	1051 m21 69.97 0.0 −0.01	1067 n21 69.97 0.0 −0.01
22	1020 k22 76.33 0.0 −0.01	1036 l22 76.33 0.0 −0.01	1052 m22 76.33 0.0 −0.01	1068 n22 76.33 0.0 −0.01
23	1021 k23 82.69 0.0 −0.01	1037 l23 82.69 0.0 −0.01	1053 m23 82.69 0.0 −0.01	1069 n23 82.69 0.0 −0.01
24	1022 k24 89.05 0.0 −0.01	1038 l24 89.05 0.0 −0.01	1054 m24 89.05 0.0 −0.01	1070 n24 89.05 0.0 −0.01
25	1023 k25 95.4 0.0 −0.01	1039 l25 95.4 0.0 −0.01	1055 m25 95.4 0.0 −0.01	1071 n25 95.4 0.0 −0.01
26	1072 k26 0.02 0.0 −0.01	1074 l26 45.14 71.35 75.52	1076 m26 90.21 −10.59 99.49	1078 n26 48.44 −73.17 42.2
27	1073 k27 95.4 0.0 −0.01	1075 l27 56.87 −33.1 −47.4	1077 m27 16.48 45.83 −56.2	1079 n27 45.36 81.83 −9.28

ZE500−7N, Test chart with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A−n): rgb (A−j, n), 000n (k), w (l), nnn0 (m), 5,4mm x 5,4mm, Page 28/4, OLS70

BAM-test chart ZE50; Colorimetric systems, Page 28/28 input: *000n / w / nnn0 / rgb set...*
40x27=1080 colours with data: *rgb / w / cmy0 / 000n / LAB** output: *−>cmy0* setcmykcolor*

BAM registration: 20071001-ZE50/10L/L50E00NP.PS/.PDF BAM material: code=rha4ta
application for evaluation and measurement of printer or monitor systems