```
229   002F00I          IJLC(I,J,K)=III                                              432   214
230   002F2CI          III=III+1                                                    433   215
231   002F3AI     5    CONTINUE                                                     434   216
232   002F3AI          IF(MC(I,J,K+1) .EQ. 0) GO TO 6                               435   217
233                C-----TOP                                                        436
234   002F72I          IBC(III)=I                                                   437   219
235   002F86I          JBC(III)=J                                                   438   220
236   002F9AI          KBC(III)=K                                                   439   221
237   002FAEI          IITY(III)=5                                                  440   222
238   002FBEI          I1=I+1                                                        441   223
239   002FCCI          I2=I-1                                                        442   224
240   002FDAI          J1=J+1                                                        443   225
241   002FE8I          J2=J-1                                                        444   226
242   002FF6I          IF(I .EC. L1) I2=I                                            445   227
243   003014I          IF(I .EC. L2) I1=I                                            446   229
244   003032I          IF(J .EC. M1) J2=J                                           447   231
245   003050I          IF(J .EC. M2) J1=J                                           448   233
246   00306EI          K1=K-1                                                       449   235
247   00307CI          K2=K-2                                                       450   236
248   00308AI          P1=(Y(I1,J1,K)-Y(I1,J2,K))*(Z(I1,J2,K)-Z(I2,J,K))-           451   237
249                1    (Z(I1,J1,K)-Z(I1,J2,K))*(Y(I1,J2,K)-Y(I2,J,K))              452
250   0031C6I          P2=(Z(I1,J1,K)-Z(I1,J2,K))*(X(I1,J2,K)-X(I2,J,K))-           453   238
251                1    (X(I1,J1,K)-X(I1,J2,K))*(Z(I1,J2,K)-Z(I2,J,K))              454
252   003302I          P3=(X(I1,J1,K)-X(I1,J2,K))*(Y(I1,J2,K)-Y(I2,J,K))-           455   239
253                1    (Y(I1,J1,K)-Y(I1,J2,K))*(X(I1,J2,K)-X(I2,J,K))              456
254   00343EI          PQ=SQRT(P1*P1+P2*P2+P3*P3)                                   457   240
255   00348AI          P1=P1/PC                                                     458   241
256   00349CI          P2=P2/PC                                                     459   242
257   0034AEI          P3=P3/PC                                                     460   243
258   0034C0I          R1=1.-P1**2                                                  461   244
259   0034DCI          R2=1.-P2**2                                                  462   245
260   0034F8I          R3=1.-P3**2                                                  463   246
261   003514I          SINX(III)=SQRT(R1)                                           464   247
262   00353AI          SINY(III)=SQRT(R2)                                           465   248
263   00355EI          SINZ(III)=SQRT(R3)                                           466   249
264   003582I          Q1=X(I,J,K)-X(I,J,K1)                                        467   250
265   0035D4I          Q2=Y(I,J,K)-Y(I,J,K1)                                        468   251
266   003626I          Q3=Z(I,J,K)-Z(I,J,K1)                                        469   252
267   003678I          AA=SQRT((Q1-P1)**2+(Q2-P2)**2+(Q3-P3)**2)                    470   253
268   0036F6I          CC=1.0                                                       471   254
269   003702I          BB=SQRT(Q1*Q1+C2*Q2+Q3*Q3)                                   472   255
270   00374EI          COTH=(BB*BB+CC*CC-AA*AA)/(2*BB*CC)                           473   256
271   003790I          YN(III)=BB*ABS(COTH)                                         474   257
272   0037BCI          Q1=X(I,J,K)-X(I,J,K2)                                        475   258
273   00380EI          C2=Y(I,J,K)-Y(I,J,K2)                                        476   259
274   003860I          Q3=Z(I,J,K)-Z(I,J,K2)                                        477   260
275   0038B2I          BB=SQRT(Q1*Q1+Q2*Q2+Q3*Q3)                                   478   261
276   0038FEI          AA=SQRT((Q1-P1)**2+(Q2-P2)**2+(Q3-P3)**2)                    479   262
277   00397AI          COTH=(BB*BB+CC*CC-AA*AA)/(2*BB*CC)                           480   263
278   0039BCI          YN1(III)=(BB*ABS(COTH)+YN(III))*0.5                          481   264
279   0039FCI          IJLC(I,J,K)=III                                              482   265
280   003A28I          III=III+1                                                    483   266
281   003A36I     6    CONTINUE                                                     484   267
282   003A36I          IF(MC(I,J,K-1) .EQ. 0) GO TO 30                              485   268
283                C-----BOTTOM                                                     486
284   003A6EI          IBC(III)=I                                                   487   270
285   003A82I          JBC(III)=J                                                   488   271
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