fnALFs (n,m,Pnm,DPnm,D2Pnm,D3Pnm) for argument sin(phi) = 2/sqrt(5), phi = atan(2)

0 0 +0.1000000000000000E+01 +0.0000000000000000E+00 +0.0000000000000000E+00 +0.0000000000000000E+00

1 0 +0.1549193338482967E+01 +0.7745966692414835E+00 -0.1549193338482967E+01 -0.7745966692414838E+00

1 1 +0.7745966692414835E+00 -0.1549193338482967E+01 -0.7745966692414838E+00 +0.1549193338482968E+01

2 0 +0.1565247584249853E+01 +0.2683281572999748E+01 -0.4024922359499621E+01 -0.1073312629199900E+02

2 1 +0.1549193338482967E+01 -0.2323790007724449E+01 -0.6196773353931869E+01 +0.9295160030897797E+01

2 2 +0.3872983346207419E+00 -0.1549193338482967E+01 +0.2323790007724449E+01 +0.6196773353931876E+01

3 0 +0.1183215956619923E+01 +0.5324471804789655E+01 -0.3549647869859768E+01 -0.4437059837324714E+02

3 1 +0.2173706511928416E+01 -0.1449137674618942E+01 -0.1811422093273680E+02 +0.1014396372233259E+02

3 2 +0.9165151389911684E+00 -0.3207802986469089E+01 +0.9165151389911621E+00 +0.3345280257317764E+02

3 3 +0.1870828693386972E+00 -0.1122497216032183E+01 +0.3928740256112639E+01 -0.1122497216032176E+01

4 0 +0.5250000000000001E+00 +0.7800000000000003E+01 +0.5100000000000000E+01 -0.1068000000000001E+03

4 1 +0.2466576574931337E+01 +0.1612761606685874E+01 -0.3377312541059832E+02 -0.3434233538942866E+02

4 2 +0.1542886904474855E+01 -0.4293250516799596E+01 -0.8586501033599205E+01 +0.8479169770679201E+02

4 3 +0.5019960159204457E+00 -0.2760978087562451E+01 +0.7027944222886232E+01 +0.2158582868457918E+02

4 4 +0.8874119674649432E-01 -0.7099295739719544E+00 +0.3904612656845747E+01 -0.9939014035607357E+01

5 0 -0.2521507485612523E+00 +0.9010681161821237E+01 +0.2558588478048004E+02 -0.1740952594845709E+03

5 1 +0.2326547871847903E+01 +0.6606247043518735E+01 -0.4495120270916013E+02 -0.1754963888517370E+03

5 2 +0.2127815781499894E+01 -0.3799671038392665E+01 -0.2887749989178429E+02 +0.1314686179283862E+03

5 3 +0.9617497075642920E+00 -0.4653627617246572E+01 +0.5118990378971217E+01 +0.9028037577458358E+02

5 4 +0.2632489316217639E+00 -0.1974366987163229E+01 +0.9213712606761726E+01 -0.5923100961489652E+01

5 5 +0.4162331077653487E-01 -0.4162331077653487E+00 +0.3121748308240113E+01 -0.1456815877178719E+02

6 0 -0.9753016200130087E+00 +0.8025957139182848E+01 +0.5701458231891205E+02 -0.1829312495119413E+03

6 1 +0.1751407434036982E+01 +0.1244160186631931E+02 -0.3991887132672974E+02 -0.4429408536949377E+03

6 2 +0.2521033642179335E+01 -0.9927386362985935E+00 -0.5744821740054259E+02 +0.1036628133903376E+03

6 3 +0.1515232655403124E+01 -0.6034805920657268E+01 -0.7523913875105192E+01 +0.2094156028570939E+03

6 4 +0.5580544328289136E+00 -0.3834835589696123E+01 +0.1353639726810645E+02 +0.4075228268453197E+02

6 5 +0.1342311439271827E+00 -0.1275195867308236E+01 +0.8590793211339685E+01 -0.2792007793685396E+02

6 6 +0.1937459676999759E-01 -0.2324951612399710E+00 +0.2208704031779723E+01 -0.1487969031935814E+02

7 0 -0.1487831643701665E+01 +0.4431451991164978E+01 +0.9218147602962321E+02 -0.4164109949016748E+02

7 1 +0.8374657082531809E+00 +0.1742066150437463E+02 -0.7869428112162971E+01 -0.8003399712604953E+03

7 2 +0.2598581055114503E+01 +0.4240233233561582E+01 -0.8506845151699898E+02 -0.9369764886524698E+02

7 3 +0.2069638963080278E+01 -0.5956909076861931E+01 -0.3467984674760696E+02 +0.3389167743204076E+03

7 4 +0.9740210470005262E+00 -0.5936263408070772E+01 +0.1150397831187104E+02 +0.1625430528298581E+03

7 5 +0.3093174946555726E+00 -0.2750951335447433E+01 +0.1584100446033963E+02 -0.1722964257464439E+02

7 6 +0.6711557196359136E-01 -0.7718290775813005E+00 +0.6778672768322720E+01 -0.3768539365755650E+02

7 7 +0.8968695557326061E-02 -0.1255617378025648E+00 +0.1443959984729495E+01 -0.1268173551805904E+02

8 0 -0.1680423236540797E+01 -0.1447210074591798E+01 +0.1180960528817538E+03 +0.3331551807611580E+03

8 1 -0.2412016790986331E+00 +0.1968267548029231E+02 +0.5552586346019304E+02 -0.1114098186439710E+04

8 2 +0.2294871454733359E+01 +0.1119752385128072E+02 -0.9693826794357327E+02 -0.5365704405186718E+03

8 3 +0.2508236502006941E+01 -0.3594204819914975E+01 -0.7491079519401741E+02 +0.3807334860113439E+03

8 4 +0.1478861793111514E+01 -0.7597822056352730E+01 -0.3364749767813406E+01 +0.3677345875274723E+03

8 5 +0.5870215072720937E+00 -0.4794008976055431E+01 +0.2152412193331006E+02 +0.5850647689145206E+02

8 6 +0.1660622059651144E+00 -0.1811587701437611E+01 +0.1431154284135711E+02 -0.5652153628485337E+02

8 7 +0.3307491496587713E-01 -0.4465113520393411E+00 +0.4828937585018056E+01 -0.3740772882640699E+02

8 8 +0.4134364370734642E-02 -0.6614982993175426E-01 +0.8930227040786822E+00 -0.9657875170036117E+01

9 0 -0.1512946152172971E+01 -0.8518820092292350E+01 +0.1191275135109827E+03 +0.9623547348668151E+03

9 1 -0.1269910720963782E+01 +0.1775848121340548E+02 +0.1434593737087324E+03 -0.1159157964074249E+04

9 2 +0.1622314582625701E+01 +0.1840207684885733E+02 -0.7675786708608442E+02 -0.1219865562737840E+04

9 3 +0.2715867323998453E+01 +0.1426445192164771E+01 -0.1193611391956009E+03 +0.1930760322419287E+03

9 4 +0.2006581632403727E+01 -0.7933237690998231E+01 -0.3593229170603381E+02 +0.6099077274121159E+03

9 5 +0.9704557539179736E+00 -0.7083708878917180E+01 +0.1979853362929465E+02 +0.2414765890608890E+03

9 6 +0.3383501071375629E+00 -0.3456916660660194E+01 +0.2353767632106023E+02 -0.3771965298155249E+02

9 7 +0.8707663515906559E-01 -0.1125085413007609E+01 +0.1124670762363994E+02 -0.7218514837805323E+02

9 8 +0.1611871970722243E-01 -0.2498401554619477E+00 +0.3207625221737262E+01 -0.3166522486483844E+02

9 9 +0.1899609334837038E-02 -0.3419296802706667E-01 +0.5299910044195333E+00 -0.6804400637386264E+01

10 0 -0.1022137780540282E+01 -0.1512376000167039E+02 +0.8218763585609020E+02 +0.1752370071887572E+04

10 1 -0.2039287382610652E+01 +0.1108217855807101E+02 +0.2362895322902605E+03 -0.6764245388787926E+03

10 2 +0.6739220891832098E+00 +0.2388858450422768E+02 -0.1287581901803353E+02 -0.2002367553760764E+04

10 3 +0.2606802424475246E+01 +0.8768130780078641E+01 -0.1519058960307338E+03 -0.3606752024606423E+03

10 4 +0.2465675823183425E+01 -0.6080620816372280E+01 -0.8613151632824739E+02 +0.7687687511715078E+03

10 5 +0.1438286707179763E+01 -0.9008587646813051E+01 +0.3557125314070245E+01 +0.5460858512817612E+03

10 6 +0.6008627062171997E+00 -0.5654074918946735E+01 +0.3075223959731044E+02 +0.7007000874999980E+02

10 7 +0.1887263748459660E+00 -0.2312671560612452E+01 +0.2085271748298048E+02 -0.9711673617073544E+02

10 8 +0.4483895584129392E-01 -0.6694266646728387E+00 +0.8077327397326037E+01 -0.7037821463315196E+02

10 9 +0.7786081331452955E-02 -0.1362564233004267E+00 +0.2024381146177767E+01 -0.2421471294081866E+02

10 10 +0.8705103567735443E-03 -0.1741020713547088E-01 +0.3046786248707403E+00 -0.4526653855222428E+01

11 0 -0.3132906097838719E+00 -0.1941885161339929E+02 +0.2516657264672524E+01 +0.2471227469431054E+04

11 1 -0.2390295398199739E+01 +0.3097790949924946E+00 +0.3041870737613519E+03 +0.5227751899696246E+03

11 2 -0.3921161255530698E+00 +0.2568509621533677E+02 +0.9528719849261736E+02 -0.2589100188100046E+04

11 3 +0.2148480314131403E+01 +0.1729237447773485E+02 -0.1523330383739624E+03 -0.1335914327378531E+04

11 4 +0.2755341728119221E+01 -0.1492688823157287E+01 -0.1462631475085142E+03 +0.6593394326695143E+03

11 5 +0.1941796732354977E+01 -0.9741828634859871E+01 -0.3307623439620471E+02 +0.9242295546547986E+03

11 6 +0.9580804948107837E+00 -0.8114219749985008E+01 +0.2975942425094750E+02 +0.3192831580164543E+03

11 7 +0.3565727566507950E+00 -0.4097131043038495E+01 +0.3209845941546280E+02 -0.6982324272983739E+02

11 8 +0.1026506420157713E+00 -0.1466118952268733E+01 +0.1636608279442752E+02 -0.1188359704188231E+03

11 9 +0.2275911154591446E-01 -0.3854644461827030E+00 +0.5442308559669237E+01 -0.5940473821507150E+02

11 10 +0.3734073429245876E-02 -0.7281443187029459E-01 +0.1228510158221892E+01 -0.1723461591268433E+02

11 11 +0.3980535650198359E-03 -0.8757178430436389E-02 +0.1707649793935095E+00 -0.2881111703613571E+01

12 0 +0.4623621874999995E+00 -0.1986104250000001E+02 -0.1118505862499999E+03 +0.2775316245000001E+04

12 1 -0.2248820229691978E+01 -0.1266458500664845E+02 +0.3142426846701917E+03 +0.2432538375717218E+04

12 2 -0.1382971539431010E+01 +0.2237523898125564E+02 +0.2328346073251286E+03 -0.2576124815048713E+04

12 3 +0.1375253999177291E+01 +0.2518939699705032E+02 -0.1022743999145788E+03 -0.2627079161664579E+04

12 4 +0.2786743416009505E+01 +0.5790899337948602E+01 -0.2002107009408253E+03 +0.8018263824703956E+02

12 5 +0.2408255733583766E+01 -0.8416176268218974E+01 -0.9148828027753487E+02 +0.1239971889210506E+04

12 6 +0.1395672153468354E+01 -0.1028453772279289E+02 +0.1292705623765456E+02 +0.7324864690115307E+03

12 7 +0.6053648728853021E+00 -0.6426592576368444E+01 +0.4102428853405491E+02 +0.7120645031707249E+02

12 8 +0.2048515644025784E+00 -0.2776023698411772E+01 +0.2804360916519928E+02 -0.1508507842658903E+03

12 9 +0.5472919220751856E-01 -0.8923701404745394E+00 +0.1184282857872303E+02 -0.1143150671469068E+03

12 10 +0.1141739054407521E-01 -0.2162742484670798E+00 +0.3495033850227710E+01 -0.4565486392640498E+02

12 11 +0.1780149660140971E-02 -0.3827321769303087E-01 +0.7227407620172338E+00 -0.1162259713106040E+02

12 12 +0.1816857638805946E-03 -0.4360458333134270E-02 +0.9374985416238676E-01 -0.1770346083252513E+01

13 0 +0.1139817546420087E+01 -0.1566763200051474E+02 -0.2387820574494854E+03 +0.2295606749192138E+04

13 1 -0.1642414105347870E+01 -0.2503116101055578E+02 +0.2406449746254613E+03 +0.4753801360959560E+04

13 2 -0.2110549224962325E+01 +0.1359310062072476E+02 +0.3690951756853461E+03 -0.1564770384080080E+04

13 3 +0.3882639766679414E+00 +0.3032918338310933E+02 +0.7466201962710656E+01 -0.3918632286844782E+04

13 4 +0.2504813105438608E+01 +0.1497616194241454E+02 -0.2255386128699090E+03 -0.1102224740413675E+04

13 5 +0.2751012036145979E+01 -0.4370945622830629E+01 -0.1655495773059823E+03 +0.1271696035848217E+04

13 6 +0.1876834904946731E+01 -0.1139473537654808E+02 -0.2654314056298984E+02 +0.1264050644306023E+04

13 7 +0.9404270979069490E+00 -0.9041030704044811E+01 +0.4116484576004804E+02 +0.3891581595938595E+03

13 8 +0.3674796344915131E+00 -0.4676593840953552E+01 +0.4135900187792164E+02 -0.1156609833513774E+03

13 9 +0.1147092068311268E+00 -0.1789393198810040E+01 +0.2200136672572117E+02 -0.1781500008108213E+03

13 10 +0.2870957026030263E-01 -0.5260606550637803E+00 +0.8077522032648668E+01 -0.9634340699969836E+02

13 11 +0.5672263301532660E-02 -0.1188189891584210E+00 +0.2161729398231472E+01 -0.3280419137363218E+02

13 12 +0.8443991253030191E-03 -0.1984337944462095E-01 +0.4145999705237822E+00 -0.7513885616508912E+01

13 13 +0.8280014648424567E-04 -0.2152803808590387E-02 +0.5059088950187407E-01 -0.1057026670017879E+01

14 0 +0.1575257470766970E+01 -0.7127329571074577E+01 -0.3450587280032129E+03 +0.7709851060638626E+03

14 1 -0.6955561448339918E+00 -0.3367428378298639E+02 +0.7524044212499555E+02 +0.6871426517950589E+04

14 2 -0.2431347760277094E+01 +0.3060623395437005E+00 +0.4625681991317353E+03 +0.6740070446257183E+03

14 3 -0.6594849192857214E+00 +0.3076968251411935E+02 +0.1703543767103827E+03 -0.4701147734309760E+04

14 4 +0.1905500803580106E+01 +0.2452378180499177E+02 -0.1986675408554304E+03 -0.2853047550189200E+04

14 5 +0.2885058588290484E+01 +0.2585069909209476E+01 -0.2400598401862724E+03 +0.7556040210359379E+03

14 6 +0.2343075442281753E+01 -0.1059021742754148E+02 -0.9147269812353581E+02 +0.1768824357884328E+04

14 7 +0.1352213326799619E+01 -0.1143874218127605E+02 +0.2444998207543437E+02 +0.9165193371634539E+03

14 8 +0.6037422584710037E+00 -0.7120649949806817E+01 +0.5217034853219668E+02 +0.5825604367949482E+02

14 9 +0.2161532873675643E+00 -0.3201606485158842E+01 +0.3574667806635733E+02 -0.2186596153635992E+03

14 10 +0.6291074541427988E-01 -0.1109625719116631E+01 +0.1602486473190789E+02 -0.1694683668470306E+03

14 11 +0.1485891891689658E-01 -0.3022112379710740E+00 +0.5264850496231999E+01 -0.7439621041707579E+02

14 12 +0.2795023390495688E-02 -0.6414985723428937E-01 +0.1297162214684221E+01 -0.2239318468166299E+02

14 13 +0.3988183180111602E-03 -0.1016986710928458E-01 +0.2329098977185174E+00 -0.4694889239627375E+01

14 14 +0.3768478884837865E-04 -0.1055174087754602E-02 +0.2690693923774234E-01 -0.6162216672486872E+00

15 0 +0.1676428936091319E+01 +0.4334422040437033E+01 -0.3936741005810426E+03 -0.1805937380664788E+04

15 1 +0.3956767875491554E+00 -0.3593736419896578E+02 -0.1648587734719831E+03 +0.7943789754569147E+04

15 2 -0.2278177495439482E+01 -0.1521691415665594E+02 +0.4707652206833742E+03 +0.4030912785412616E+04

15 3 -0.1590477285130132E+01 +0.2530655080324084E+02 +0.3607561722068575E+03 -0.4373018219525468E+04

15 4 +0.1043975681030596E+01 +0.3236748579982758E+02 -0.1023011373652402E+03 -0.4887490355773968E+04

15 5 +0.2745294055905107E+01 +0.1196827882660346E+02 -0.2917722587758806E+03 -0.5274081605255900E+03

15 6 +0.2720322580531935E+01 -0.7139219476812059E+01 -0.1774977937855405E+03 +0.1996293741636575E+04

15 7 +0.1812536655992252E+01 -0.1290281852670004E+02 -0.1674295377343906E+02 +0.1613771830058529E+04

15 8 +0.9194992493895238E+00 -0.9874455424667389E+01 +0.5381102910182696E+02 +0.4452523863255171E+03

15 9 +0.3732237402086954E+00 -0.5200045091591810E+01 +0.5118182695125107E+02 -0.1770215525300186E+03

15 10 +0.1239427302471520E+00 -0.2092184012078825E+01 +0.2804074184010185E+02 -0.2504618190263805E+03

15 11 +0.3391325443017638E-01 -0.6670729540110630E+00 +0.1104419195899225E+02 -0.1426585333450818E+03

15 12 +0.7603572511413857E-02 -0.1699511380645226E+00 +0.3309812529349604E+01 -0.5390838806972231E+02

15 13 +0.1367637224542427E-02 -0.3412932533317586E-01 +0.7591618701818159E+00 -0.1467795089392024E+02

15 14 +0.1876687350134878E-03 -0.5160890212870914E-02 +0.1285530834842391E+00 -0.2852095600367479E+01

15 15 +0.1713173325089115E-04 -0.5139519975267344E-03 +0.1413367993198519E-01 -0.3520571183058129E+00

16 0 +0.1422059030926837E+01 +0.1637638384345845E+02 -0.3540472887251826E+03 -0.5080589063653771E+04

16 1 +0.1404263329451883E+01 -0.3035930454495506E+02 -0.4356569180535628E+03 +0.7110909221260137E+04

16 2 -0.1676686947222754E+01 -0.2978114885543418E+02 +0.3629628129892657E+03 +0.7947734437492954E+04

16 3 -0.2237216484769725E+01 +0.1392263763871147E+02 +0.5356934173201506E+03 -0.2422137688412196E+04

16 4 +0.3096767342860640E-01 +0.3632177326534073E+02 +0.6669775323238902E+02 -0.6648866438656787E+04

16 5 +0.2303662888989545E+01 +0.2254503231444927E+02 -0.2935483800525647E+03 -0.2636659904262156E+04

16 6 +0.2930100157758174E+01 -0.6753824150924643E+00 -0.2709199793439373E+03 +0.1626590425011054E+04

16 7 +0.2273927597284900E+01 -0.1260218270776344E+02 -0.8660041054221949E+02 +0.2332496243825559E+04

16 8 +0.1308626535444093E+01 -0.1248174938518032E+02 +0.3785057493095562E+02 +0.1089210397815795E+04

16 9 +0.5979489524718791E+00 -0.7743692800569700E+01 +0.6403982507762042E+02 +0.2812734668106697E+02

16 10 +0.2238119546668249E+00 -0.3590533300671131E+01 +0.4384805906269376E+02 -0.3012742315973358E+03

16 11 +0.6958761912554290E-01 -0.1317733494637561E+01 +0.2053721017953065E+02 -0.2359174625446204E+03

16 12 +0.1801819227771496E-01 -0.3909351986601625E+00 +0.7290279743095973E+01 -0.1106206917470425E+03

16 13 +0.3853309739937165E-02 -0.9387581664590036E-01 +0.2020194847692193E+01 -0.3719564540495838E+02

16 14 +0.6651573402243992E-03 -0.1793130039865439E-01 +0.4350687960815655E+00 -0.9307462818397799E+01

16 15 +0.8802443923333907E-04 -0.2596720957383502E-02 +0.6989140475127117E-01 -0.1692093795382476E+01

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17 0 +0.8662335122718188E+00 +0.2621900649176216E+02 -0.2126294417716522E+03 -0.8317179837563715E+04

17 1 +0.2119681042437069E+01 -0.1719007152040470E+02 -0.6724041368143672E+03 +0.3785846517259798E+04

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17 3 -0.2476838130683757E+01 -0.1995803513371589E+01 +0.6424631450817175E+03 +0.1350021126063486E+04

17 4 -0.9831104240114065E+00 +0.3460404377741751E+02 +0.2913910433814129E+03 -0.7379306923730095E+04

17 5 +0.1581119699418363E+01 +0.3243710287202284E+02 -0.2213084598506782E+03 -0.5360987175468196E+04

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23 17 +0.3684574971788533E-02 -0.1121686276739202E+00 +0.3065988194459317E+01 -0.7329860792532399E+02

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24 8 +0.2037735208923033E+01 +0.3826010220043895E+02 -0.4940456540975716E+03 -0.8901318345894382E+04

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