! Eqn 6723 y=a+bx2+cx4+dx6+ex8

! altitude from 0 to 4 km e.g., U0 is 0 km u4 is 4 km

! x = sza in degrees 0 to 80

! F = U \* (O3/200)\*\*(-R) O3 = ozone 100 to 600 DU

x=x\*x;

R0=1.156052570367475D0+x\*(1.800779814654073D-05+

x\*(-3.002170350795624D-09+x\*(-2.618973217138668D-13+

x\*-5.962141832425528D-17)));

U0=0.4631857584050039D0+x\*(-0.0001822463902435957D0+

x\*(2.608180492051142D-08+x\*(-1.512730491209405D-12+

x\*2.372517703335847D-17)));

R1=1.158813799843628D0+x\*(1.798228311550313D-05+

x\*(-2.341405388985520D-09+x\*(-4.940911355497962D-13+

x\*-3.662757312824093D-17)));

U1=0.4864803303362002D0+x\*(-0.0001902024798369626D0+

x\*(2.681607208941479D-08+x\*(-1.496297969816634D-12+

x\*1.994080269355319D-17)));

R2=1.161808588741204D0+x\*(1.799758520126839D-05+

x\*(-1.915067132118472D-09+x\*(-6.597361325385819D-13+

x\*-1.812061992439043D-17)));

U2=0.5079192885066458D0+x\*(-0.0001973003406543994D0+

x\*(2.746439766508111D-08+x\*(-1.487461804021105D-12+

x\*1.729752421529277D-17)));

R3=1.164645140734949D0+x\*(1.827192802554558D-05+

x\*(-1.622244346840331D-09+x\*(-7.781258305173713D-13+

x\*-5.305366160696516D-18)));

U3=0.5284067670054730D0+x\*(-0.0002038689301215864D0+

x\*(2.803667684454433D-08+x\*(-1.479493136552102D-12+

x\*1.519495178354487D-17)));

R4=1.167556550039093D0+x\*(1.857640755944660D-05+

x\*(-1.366086322882707D-09+x\*(-8.801168565606416D-13+

x\*4.965027748661278D-18)));

U4=0.5486120641125880D0+x\*(-0.0002101682613803770D0+

x\*(2.851449388190919D-08+x\*(-1.457148378904343D-12+

x\*1.228110040940689D-17)));