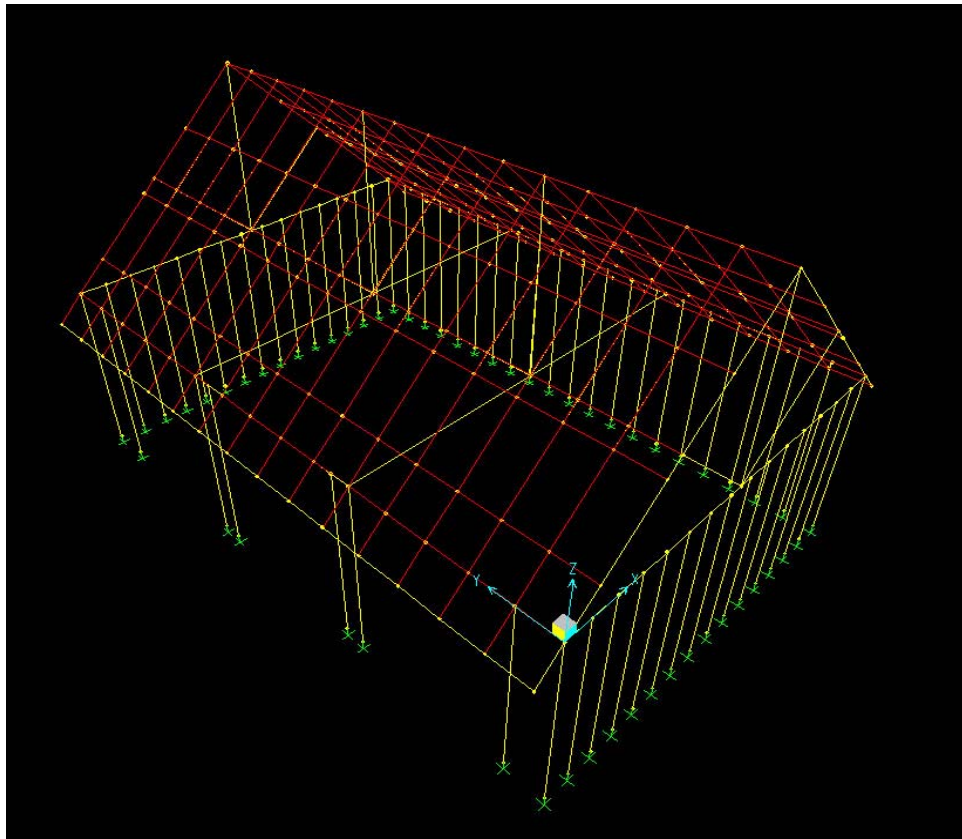


Procedure:

For this homework, we began by drawing the various garage elements in AutoCAD2006. We first drew the truss shape, then the rafters, then the columns, making sure to save each of these elements as respective layers. The spacing on the columns was 16", the length of the truss was 20', and the length of the roof plate was 30'.

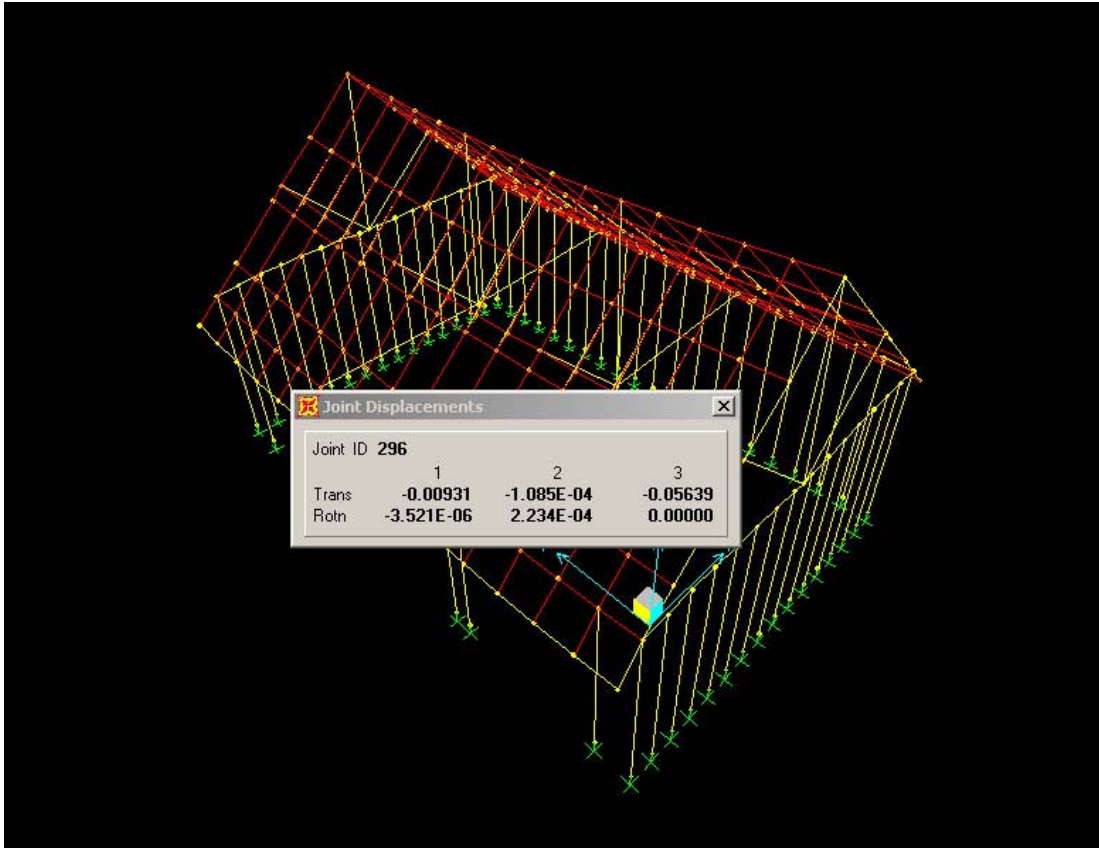
We then imported each of these separate elements into the SAP2000 program. With these elements in place, we assigned the elements as various sections ranging from 2x4 to 4x6. We also put joint restraints at the base of each of the columns. We then added the snow load of 60 lb/ft to the frames and shells. We then ran the program, showing all the deflections. The undeformed and deformed shapes as well as the deflections can be found in the sections below.

Undeformed Shape:



$$\text{Allowable Max Deflection} = L/240 = (10)(12)/(240) = -0.5 \text{ inches}$$

Deformed Shape



Actual Max Deflection = -0.0564 inches @ joints 296 and 297

J O I N T D I S P L A C E M E N T S

JOINT	LOAD	U1	U2	U3	R1	R2	R3
1	SNOW	-0.0129	-1.742E-03	-0.0177	-2.428E-04	-8.547E-05	-4.518E-05
2	SNOW	-4.005E-03	-1.313E-03	-7.145E-03	-7.553E-05	-4.624E-05	-3.779E-05
3	SNOW	-8.249E-03	-4.964E-03	-0.0113	-1.205E-05	-4.426E-05	1.279E-05
4	SNOW	-0.0150	6.194E-03	-0.0190	-2.348E-04	-5.722E-05	6.027E-06
5	SNOW	-0.0117	-4.517E-03	-0.0194	-2.463E-04	-8.128E-05	-6.195E-06
6	SNOW	-2.971E-03	-3.026E-03	-6.380E-03	-6.582E-05	-5.412E-05	-8.699E-05
7	SNOW	-8.696E-03	7.609E-04	-0.0141	-1.367E-04	-6.137E-05	9.395E-05
8	SNOW	-0.0144	1.147E-03	-0.0203	-1.845E-04	-4.354E-05	-1.346E-04
9	SNOW	-0.0103	-9.063E-04	-0.0436	-8.760E-05	3.122E-05	-1.093E-05
10	SNOW	1.317E-03	-6.581E-04	-0.0176	-3.271E-05	-2.379E-04	-1.965E-05
11	SNOW	-4.242E-03	-2.969E-03	-0.0435	-3.969E-05	-1.123E-04	7.208E-06
12	SNOW	-0.0179	2.890E-03	-0.0442	-9.198E-05	-1.171E-04	9.007E-06

13	SNOW	-0.0107	-2.045E-03	-0.0440	-1.006E-04	2.803E-05	-4.306E-06
14	SNOW	5.389E-03	-1.396E-03	-0.0137	-2.976E-05	-2.394E-04	-3.389E-05
15	SNOW	-0.0119	3.994E-04	-0.0355	-5.132E-05	-1.761E-04	2.397E-05
16	SNOW	-9.923E-03	5.544E-04	-0.0496	-7.154E-05	-5.197E-05	-3.940E-05
17	SNOW	-0.0103	9.076E-04	-0.0436	8.762E-05	3.122E-05	1.092E-05
18	SNOW	1.317E-03	6.554E-04	-0.0176	3.271E-05	-2.379E-04	1.964E-05
19	SNOW	-4.241E-03	2.968E-03	-0.0435	3.970E-05	-1.123E-04	-7.228E-06
20	SNOW	-0.0179	-2.892E-03	-0.0442	9.198E-05	-1.171E-04	-9.027E-06
21	SNOW	-0.0107	2.047E-03	-0.0440	1.006E-04	2.804E-05	4.301E-06
22	SNOW	5.389E-03	1.393E-03	-0.0137	2.975E-05	-2.394E-04	3.388E-05
23	SNOW	-0.0119	-4.016E-04	-0.0355	5.132E-05	-1.761E-04	-2.398E-05
24	SNOW	-9.922E-03	-5.547E-04	-0.0496	7.155E-05	-5.196E-05	3.939E-05
25	SNOW	-0.0129	1.743E-03	-0.0177	2.428E-04	-8.545E-05	4.517E-05
26	SNOW	-4.004E-03	1.310E-03	-7.146E-03	7.552E-05	-4.624E-05	3.779E-05
27	SNOW	-8.249E-03	4.963E-03	-0.0113	1.206E-05	-4.423E-05	-1.281E-05
28	SNOW	-0.0150	-6.195E-03	-0.0190	2.347E-04	-5.719E-05	-6.045E-06
29	SNOW	-0.0117	4.519E-03	-0.0194	2.463E-04	-8.126E-05	6.187E-06
30	SNOW	-2.969E-03	3.023E-03	-6.381E-03	6.581E-05	-5.412E-05	8.699E-05
31	SNOW	-8.694E-03	-7.631E-04	-0.0141	1.367E-04	-6.135E-05	-9.396E-05
32	SNOW	-0.0144	-1.147E-03	-0.0203	1.845E-04	-4.351E-05	1.345E-04
33	SNOW	-0.0135	-1.405E-04	-0.0192	2.489E-04	-3.405E-05	1.062E-04
34	SNOW	-9.447E-03	3.240E-05	-0.0469	9.699E-05	3.697E-05	2.175E-05
35	SNOW	-0.0141	-7.177E-04	-0.0207	2.431E-04	-3.313E-05	1.303E-04
36	SNOW	-9.419E-03	-3.066E-04	-0.0497	9.819E-05	-2.772E-05	2.686E-05
37	SNOW	-0.0142	-1.876E-03	-0.0211	2.398E-04	-3.190E-05	9.724E-05
38	SNOW	-0.0125	-9.354E-04	-0.0485	9.782E-05	-9.328E-05	1.615E-05
39	SNOW	-9.448E-03	-3.157E-05	-0.0469	-9.697E-05	3.697E-05	-2.176E-05
40	SNOW	-9.420E-03	3.065E-04	-0.0497	-9.817E-05	-2.773E-05	-2.687E-05
41	SNOW	-0.0125	9.345E-04	-0.0485	-9.781E-05	-9.328E-05	-1.616E-05
42	SNOW	-0.0135	1.412E-04	-0.0192	-2.489E-04	-3.408E-05	-1.062E-04
43	SNOW	-0.0141	7.176E-04	-0.0208	-2.431E-04	-3.317E-05	-1.303E-04
44	SNOW	-0.0142	1.875E-03	-0.0211	-2.398E-04	-3.193E-05	-9.726E-05
45	SNOW	-5.384E-03	1.025E-04	-9.867E-03	1.089E-04	-7.671E-05	-1.368E-05
46	SNOW	-2.879E-03	8.355E-05	-0.0235	4.267E-05	-2.435E-04	8.622E-06
47	SNOW	-8.282E-03	-4.129E-04	-0.0138	1.662E-04	-7.004E-05	-8.045E-05
48	SNOW	-0.0105	-1.950E-04	-0.0336	6.305E-05	-1.977E-04	-1.049E-05
49	SNOW	-0.0119	-1.718E-03	-0.0174	2.091E-04	-7.873E-05	-8.288E-05
50	SNOW	-0.0153	-8.795E-04	-0.0404	8.239E-05	-1.393E-04	-1.751E-05
51	SNOW	-2.880E-03	-8.612E-05	-0.0235	-4.267E-05	-2.435E-04	-8.632E-06
52	SNOW	-0.0105	1.928E-04	-0.0336	-6.305E-05	-1.977E-04	1.047E-05

53	SNOW	-0.0153	8.776E-04	-0.0404	-8.239E-05	-1.393E-04	1.749E-05
54	SNOW	-5.386E-03	-1.050E-04	-9.866E-03	-1.089E-04	-7.671E-05	1.368E-05
55	SNOW	-8.284E-03	4.106E-04	-0.0138	-1.662E-04	-7.006E-05	8.045E-05
56	SNOW	-0.0119	1.716E-03	-0.0174	-2.091E-04	-7.876E-05	8.287E-05
57	SNOW	-0.0155	-5.974E-03	-0.0265	2.285E-04	-6.990E-05	-1.456E-05
58	SNOW	-0.0125	4.351E-03	-0.0260	2.415E-04	-1.232E-05	-1.791E-06
59	SNOW	-0.0163	-5.494E-03	-0.0328	2.008E-04	-8.560E-05	-1.729E-05
60	SNOW	-0.0130	3.942E-03	-0.0328	2.192E-04	2.881E-05	1.722E-05
61	SNOW	-0.0170	-4.785E-03	-0.0378	1.652E-04	-9.966E-05	-1.465E-05
62	SNOW	-0.0127	3.355E-03	-0.0383	1.793E-04	4.352E-05	3.336E-05
63	SNOW	-0.0175	-3.900E-03	-0.0415	1.277E-04	-1.103E-04	-1.090E-05
64	SNOW	-0.0118	2.691E-03	-0.0420	1.348E-04	4.401E-05	3.976E-05
65	SNOW	-0.0183	-1.782E-03	-0.0464	5.767E-05	-1.254E-04	-7.449E-06
66	SNOW	-0.0118	1.347E-03	-0.0467	6.995E-05	4.185E-05	-2.612E-05
67	SNOW	-0.0185	-6.031E-04	-0.0476	1.970E-05	-1.299E-04	-3.033E-06
68	SNOW	-0.0127	4.719E-04	-0.0487	2.587E-05	5.476E-05	-1.109E-05
69	SNOW	-0.0185	6.015E-04	-0.0476	-1.969E-05	-1.299E-04	3.015E-06
70	SNOW	-0.0127	-4.701E-04	-0.0487	-2.585E-05	5.476E-05	1.108E-05
71	SNOW	-0.0183	1.780E-03	-0.0464	-5.766E-05	-1.254E-04	7.430E-06
72	SNOW	-0.0118	-1.345E-03	-0.0467	-6.993E-05	4.184E-05	2.611E-05
73	SNOW	-0.0175	3.899E-03	-0.0415	-1.277E-04	-1.103E-04	1.088E-05
74	SNOW	-0.0118	-2.689E-03	-0.0420	-1.348E-04	4.400E-05	-3.976E-05
75	SNOW	-0.0170	4.783E-03	-0.0378	-1.652E-04	-9.967E-05	1.463E-05
76	SNOW	-0.0127	-3.353E-03	-0.0383	-1.793E-04	4.351E-05	-3.336E-05
77	SNOW	-0.0163	5.493E-03	-0.0328	-2.008E-04	-8.562E-05	1.727E-05
78	SNOW	-0.0130	-3.940E-03	-0.0328	-2.191E-04	2.879E-05	-1.722E-05
79	SNOW	-0.0155	5.972E-03	-0.0266	-2.285E-04	-6.992E-05	1.454E-05
80	SNOW	-0.0125	-4.349E-03	-0.0260	-2.414E-04	-1.234E-05	1.787E-06
81	SNOW	8.823E-05	2.925E-03	-8.155E-03	6.415E-05	-1.271E-04	9.677E-05
82	SNOW	2.679E-03	2.656E-03	-9.824E-03	6.040E-05	-1.719E-04	7.227E-05
83	SNOW	4.312E-03	2.265E-03	-0.0114	5.431E-05	-1.985E-04	4.039E-05
84	SNOW	5.053E-03	1.822E-03	-0.0128	4.421E-05	-2.220E-04	1.713E-05
85	SNOW	7.006E-03	9.184E-04	-0.0142	1.546E-05	-2.417E-04	5.204E-05
86	SNOW	8.263E-03	3.211E-04	-0.0144	4.683E-06	-2.507E-04	2.227E-05
87	SNOW	8.263E-03	-3.240E-04	-0.0144	-4.687E-06	-2.507E-04	-2.228E-05
88	SNOW	7.006E-03	-9.213E-04	-0.0142	-1.546E-05	-2.417E-04	-5.204E-05
89	SNOW	5.052E-03	-1.825E-03	-0.0128	-4.421E-05	-2.220E-04	-1.714E-05
90	SNOW	4.311E-03	-2.268E-03	-0.0114	-5.431E-05	-1.985E-04	-4.039E-05
91	SNOW	2.678E-03	-2.659E-03	-9.823E-03	-6.041E-05	-1.719E-04	-7.227E-05
92	SNOW	8.710E-05	-2.928E-03	-8.154E-03	-6.416E-05	-1.271E-04	-9.678E-05
93	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

94	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
95	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
96	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
97	SNOW	-0.0122	2.308E-03	-0.0129	1.665E-04	-1.141E-04	3.361E-05
98	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
99	SNOW	-0.0115	2.791E-03	-9.396E-03	1.108E-04	-1.075E-04	3.053E-05
100	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
101	SNOW	-0.0109	3.282E-03	-7.202E-03	7.070E-05	-8.305E-05	3.097E-05
102	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
103	SNOW	-0.0103	3.799E-03	-6.258E-03	4.239E-05	-5.313E-05	3.118E-05
104	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
105	SNOW	-9.656E-03	4.313E-03	-6.468E-03	2.357E-05	-2.721E-05	2.809E-05
106	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
107	SNOW	-9.074E-03	4.745E-03	-7.718E-03	1.290E-05	-1.439E-05	1.890E-05
108	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
109	SNOW	-8.517E-03	4.974E-03	-9.856E-03	9.818E-06	-2.550E-05	0.0000
110	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
111	SNOW	-7.945E-03	4.760E-03	-9.637E-03	6.369E-06	-5.881E-05	-2.674E-05
112	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
113	SNOW	-7.348E-03	4.096E-03	-7.083E-03	1.847E-06	-6.677E-05	-4.465E-05
114	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
115	SNOW	-4.532E-03	9.901E-04	-5.695E-03	5.032E-05	-2.079E-05	6.419E-06
116	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
117	SNOW	-5.070E-03	1.134E-03	-4.653E-03	3.177E-05	-1.703E-05	-1.876E-05
118	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
119	SNOW	-5.621E-03	1.635E-03	-4.182E-03	1.809E-05	-2.641E-05	-3.716E-05
120	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
121	SNOW	-6.185E-03	2.380E-03	-4.383E-03	8.478E-06	-4.215E-05	-4.824E-05
122	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
123	SNOW	-6.761E-03	3.246E-03	-5.330E-03	2.887E-06	-5.799E-05	-5.118E-05
124	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
125	SNOW	-0.0122	-2.307E-03	-0.0129	-1.665E-04	-1.141E-04	-3.363E-05
126	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
127	SNOW	-4.533E-03	-9.926E-04	-5.694E-03	-5.031E-05	-2.079E-05	-6.430E-06
128	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
129	SNOW	-5.071E-03	-1.136E-03	-4.652E-03	-3.175E-05	-1.703E-05	1.874E-05
130	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
131	SNOW	-5.622E-03	-1.637E-03	-4.180E-03	-1.807E-05	-2.640E-05	3.714E-05
132	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
133	SNOW	-6.186E-03	-2.382E-03	-4.380E-03	-8.454E-06	-4.214E-05	4.822E-05

175	SNOW	1.349E-03	-1.060E-03	-0.0143	-6.271E-05	-2.017E-04	-2.056E-05
176	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
177	SNOW	1.626E-03	-9.262E-04	-0.0152	-5.476E-05	-1.905E-04	-6.325E-06
178	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
179	SNOW	1.391E-03	-7.695E-04	-0.0163	-4.283E-05	-1.934E-04	4.485E-06
180	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
181	SNOW	1.679E-03	-5.920E-04	-0.0172	-2.742E-05	-2.085E-04	-4.696E-05
182	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
183	SNOW	3.355E-03	-3.956E-04	-0.0179	-1.450E-05	-2.437E-04	-4.722E-05
184	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
185	SNOW	4.256E-03	-1.981E-04	-0.0176	-6.747E-06	-2.161E-04	-3.154E-05
186	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
187	SNOW	4.553E-03	-1.373E-06	-0.0175	0.0000	-2.078E-04	0.0000
188	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
189	SNOW	4.256E-03	1.953E-04	-0.0176	6.746E-06	-2.161E-04	3.153E-05
190	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
191	SNOW	-0.0130	1.716E-03	-0.0254	2.468E-04	-4.096E-06	4.015E-05
192	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
193	SNOW	-0.0130	-1.715E-03	-0.0254	-2.468E-04	-4.119E-06	-4.015E-05
194	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
195	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
196	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
197	SNOW	-0.0107	7.242E-04	-0.0436	8.652E-05	1.392E-05	-2.472E-05
198	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
199	SNOW	-0.0107	-7.228E-04	-0.0436	-8.650E-05	1.392E-05	2.471E-05
200	SNOW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
201	SNOW	-0.0125	-1.197E-04	-0.0270	2.456E-04	1.221E-05	8.192E-05
202	SNOW	-0.0118	-5.128E-05	-0.0346	2.208E-04	2.809E-05	7.329E-05
203	SNOW	-0.0111	2.470E-05	-0.0406	1.787E-04	3.378E-05	6.409E-05
204	SNOW	-0.0102	6.606E-05	-0.0446	1.330E-04	3.678E-05	5.243E-05
205	SNOW	-0.0122	-6.712E-04	-0.0287	2.413E-04	-1.647E-06	1.089E-04
206	SNOW	-0.0113	-5.977E-04	-0.0362	2.172E-04	-4.019E-06	8.486E-05
207	SNOW	-0.0106	-5.031E-04	-0.0422	1.792E-04	-9.821E-06	6.955E-05
208	SNOW	-9.910E-03	-4.048E-04	-0.0466	1.374E-04	-1.449E-05	5.417E-05
209	SNOW	-0.0131	-1.818E-03	-0.0287	2.348E-04	-3.953E-05	7.078E-05
210	SNOW	-0.0128	-1.691E-03	-0.0356	2.104E-04	-5.556E-05	5.063E-05
211	SNOW	-0.0127	-1.495E-03	-0.0412	1.747E-04	-7.023E-05	3.960E-05
212	SNOW	-0.0125	-1.237E-03	-0.0454	1.357E-04	-8.168E-05	2.922E-05
213	SNOW	-0.0101	-2.531E-05	-0.0497	6.537E-05	4.387E-05	-1.481E-06
214	SNOW	-0.0107	-1.610E-05	-0.0516	2.382E-05	4.298E-05	-1.102E-06

215	SNOW	-0.0107	1.694E-05	-0.0516	-2.380E-05	4.298E-05	1.091E-06
216	SNOW	-0.0101	2.615E-05	-0.0497	-6.535E-05	4.386E-05	1.471E-06
217	SNOW	-9.711E-03	-1.985E-04	-0.0522	6.123E-05	-1.500E-05	7.989E-06
218	SNOW	-0.0101	-7.020E-05	-0.0536	2.108E-05	-1.581E-05	0.0000
219	SNOW	-0.0101	7.014E-05	-0.0536	-2.106E-05	-1.581E-05	0.0000
220	SNOW	-9.711E-03	1.985E-04	-0.0522	-6.122E-05	-1.500E-05	-8.002E-06
221	SNOW	-0.0127	-5.881E-04	-0.0509	6.047E-05	-9.231E-05	6.075E-06
222	SNOW	-0.0129	-2.005E-04	-0.0522	2.057E-05	-9.390E-05	0.0000
223	SNOW	-0.0129	1.996E-04	-0.0522	-2.056E-05	-9.390E-05	0.0000
224	SNOW	-0.0127	5.872E-04	-0.0509	-6.046E-05	-9.231E-05	-6.091E-06
225	SNOW	-0.0102	-6.525E-05	-0.0446	-1.330E-04	3.677E-05	-5.244E-05
226	SNOW	-0.0111	-2.390E-05	-0.0406	-1.786E-04	3.377E-05	-6.410E-05
227	SNOW	-0.0118	5.205E-05	-0.0346	-2.207E-04	2.807E-05	-7.329E-05
228	SNOW	-0.0125	1.204E-04	-0.0270	-2.456E-04	1.218E-05	-8.192E-05
229	SNOW	-9.911E-03	4.047E-04	-0.0466	-1.374E-04	-1.450E-05	-5.418E-05
230	SNOW	-0.0106	5.030E-04	-0.0422	-1.792E-04	-9.835E-06	-6.956E-05
231	SNOW	-0.0113	5.976E-04	-0.0362	-2.171E-04	-4.039E-06	-8.488E-05
232	SNOW	-0.0122	6.711E-04	-0.0287	-2.413E-04	-1.673E-06	-1.089E-04
233	SNOW	-0.0125	1.236E-03	-0.0454	-1.357E-04	-8.168E-05	-2.924E-05
234	SNOW	-0.0127	1.494E-03	-0.0412	-1.747E-04	-7.024E-05	-3.962E-05
235	SNOW	-0.0128	1.690E-03	-0.0356	-2.104E-04	-5.558E-05	-5.065E-05
236	SNOW	-0.0131	1.817E-03	-0.0287	-2.348E-04	-3.955E-05	-7.080E-05
237	SNOW	-4.552E-03	9.283E-05	-0.0136	1.069E-04	-1.434E-04	5.136E-06
238	SNOW	-3.562E-03	1.132E-04	-0.0169	9.690E-05	-1.872E-04	3.835E-06
239	SNOW	-2.936E-03	1.371E-04	-0.0196	8.264E-05	-2.158E-04	-6.076E-06
240	SNOW	-2.836E-03	1.365E-04	-0.0219	6.469E-05	-2.349E-04	-1.267E-05
241	SNOW	-9.359E-03	-3.904E-04	-0.0195	1.636E-04	-1.316E-04	-6.358E-05
242	SNOW	-9.754E-03	-3.552E-04	-0.0244	1.453E-04	-1.641E-04	-4.630E-05
243	SNOW	-9.988E-03	-3.053E-04	-0.0284	1.199E-04	-1.864E-04	-3.812E-05
244	SNOW	-0.0103	-2.521E-04	-0.0314	9.199E-05	-1.993E-04	-3.040E-05
245	SNOW	-0.0132	-1.676E-03	-0.0239	2.035E-04	-9.839E-05	-6.728E-05
246	SNOW	-0.0140	-1.571E-03	-0.0297	1.809E-04	-1.150E-04	-5.242E-05
247	SNOW	-0.0146	-1.397E-03	-0.0343	1.495E-04	-1.286E-04	-4.093E-05
248	SNOW	-0.0151	-1.160E-03	-0.0378	1.156E-04	-1.375E-04	-2.957E-05
249	SNOW	-1.687E-03	1.864E-05	-0.0243	2.218E-05	-2.597E-04	2.768E-05
250	SNOW	-7.908E-04	0.0000	-0.0248	6.840E-06	-2.703E-04	1.210E-05
251	SNOW	-7.910E-04	-2.350E-06	-0.0248	-6.840E-06	-2.703E-04	-1.211E-05
252	SNOW	-1.687E-03	-2.121E-05	-0.0243	-2.218E-05	-2.597E-04	-2.769E-05
253	SNOW	-9.996E-03	-1.294E-04	-0.0350	3.608E-05	-2.232E-04	4.224E-06
254	SNOW	-9.584E-03	-4.744E-05	-0.0357	1.177E-05	-2.337E-04	3.061E-06
255	SNOW	-9.584E-03	4.517E-05	-0.0357	-1.177E-05	-2.337E-04	-3.075E-06

256	SNOW	-9.996E-03	1.271E-04	-0.0350	-3.608E-05	-2.232E-04	-4.237E-06
257	SNOW	-0.0154	-5.550E-04	-0.0422	4.993E-05	-1.558E-04	-8.230E-06
258	SNOW	-0.0154	-1.898E-04	-0.0432	1.680E-05	-1.637E-04	-2.088E-06
259	SNOW	-0.0154	1.879E-04	-0.0432	-1.679E-05	-1.637E-04	2.071E-06
260	SNOW	-0.0154	5.530E-04	-0.0422	-4.993E-05	-1.558E-04	8.214E-06
261	SNOW	-2.837E-03	-1.391E-04	-0.0219	-6.470E-05	-2.349E-04	1.266E-05
262	SNOW	-2.938E-03	-1.397E-04	-0.0196	-8.264E-05	-2.158E-04	6.070E-06
263	SNOW	-3.563E-03	-1.157E-04	-0.0169	-9.691E-05	-1.872E-04	-3.838E-06
264	SNOW	-4.554E-03	-9.541E-05	-0.0136	-1.070E-04	-1.434E-04	-5.136E-06
265	SNOW	-0.0103	2.498E-04	-0.0314	-9.199E-05	-1.993E-04	3.039E-05
266	SNOW	-9.990E-03	3.030E-04	-0.0284	-1.199E-04	-1.864E-04	3.811E-05
267	SNOW	-9.755E-03	3.530E-04	-0.0244	-1.453E-04	-1.641E-04	4.629E-05
268	SNOW	-9.361E-03	3.881E-04	-0.0195	-1.636E-04	-1.316E-04	6.357E-05
269	SNOW	-0.0151	1.158E-03	-0.0379	-1.156E-04	-1.375E-04	2.955E-05
270	SNOW	-0.0146	1.395E-03	-0.0343	-1.495E-04	-1.286E-04	4.092E-05
271	SNOW	-0.0140	1.569E-03	-0.0297	-1.809E-04	-1.150E-04	5.241E-05
272	SNOW	-0.0132	1.674E-03	-0.0239	-2.035E-04	-9.841E-05	6.727E-05
273	SNOW	-0.0126	1.634E-03	-0.0334	2.243E-04	3.068E-05	4.851E-05
274	SNOW	-0.0119	1.472E-03	-0.0393	1.769E-04	4.251E-05	4.609E-05
275	SNOW	-0.0111	1.230E-03	-0.0429	1.235E-04	4.458E-05	4.071E-05
276	SNOW	-0.0114	5.440E-04	-0.0471	7.842E-05	4.587E-05	-1.210E-05
277	SNOW	-0.0118	1.816E-04	-0.0498	2.975E-05	5.398E-05	-1.963E-06
278	SNOW	-0.0118	-1.802E-04	-0.0498	-2.973E-05	5.398E-05	1.952E-06
279	SNOW	-0.0114	-5.426E-04	-0.0471	-7.839E-05	4.587E-05	1.209E-05
280	SNOW	-0.0112	-1.228E-03	-0.0429	-1.234E-04	4.457E-05	-4.071E-05
281	SNOW	-0.0119	-1.471E-03	-0.0393	-1.769E-04	4.250E-05	-4.609E-05
282	SNOW	-0.0126	-1.633E-03	-0.0334	-2.242E-04	3.066E-05	-4.851E-05
283	SNOW	-1.770E-03	1.266E-03	-0.0100	7.644E-05	-1.322E-04	5.799E-05
284	SNOW	1.268E-04	1.186E-03	-0.0124	7.101E-05	-1.762E-04	4.308E-05
285	SNOW	1.701E-03	8.800E-04	-0.0162	5.103E-05	-2.246E-04	-1.330E-06
286	SNOW	4.519E-03	1.296E-04	-0.0182	3.929E-06	-2.548E-04	1.760E-05
287	SNOW	4.519E-03	-1.324E-04	-0.0182	-3.930E-06	-2.548E-04	-1.761E-05
288	SNOW	1.701E-03	-8.827E-04	-0.0162	-5.104E-05	-2.246E-04	1.322E-06
289	SNOW	1.256E-04	-1.188E-03	-0.0124	-7.102E-05	-1.762E-04	-4.308E-05
290	SNOW	-1.771E-03	-1.269E-03	-0.0100	-7.645E-05	-1.322E-04	-5.799E-05
291	SNOW	-0.0117	-9.316E-04	<u>-0.0316</u>	3.986E-04	2.288E-04	1.779E-04
292	SNOW	-0.0103	-7.870E-04	-0.0391	1.946E-04	2.518E-04	8.611E-05
293	SNOW	-9.721E-03	-6.700E-04	-0.0450	1.961E-04	2.360E-04	6.897E-05
294	SNOW	-9.402E-03	-5.422E-04	-0.0494	4.070E-05	2.101E-04	2.437E-06
295	SNOW	-9.254E-03	-3.394E-04	-0.0550	1.522E-04	2.052E-04	4.673E-05

296	SNOW	-9.308E-03	-1.085E-04	-0.0564	-3.521E-06	2.234E-04	0.0000
297	SNOW	-9.308E-03	1.082E-04	-0.0564	3.532E-06	2.234E-04	0.0000
298	SNOW	-9.255E-03	3.392E-04	-0.0550	-1.522E-04	2.052E-04	-4.674E-05
299	SNOW	-9.403E-03	5.419E-04	-0.0494	-4.069E-05	2.101E-04	-2.448E-06
300	SNOW	-9.722E-03	6.697E-04	-0.0450	-1.960E-04	2.360E-04	-6.898E-05
301	SNOW	-0.0103	7.867E-04	-0.0391	-1.945E-04	2.518E-04	-8.613E-05
302	SNOW	-0.0117	9.313E-04	-0.0316	-3.986E-04	2.288E-04	-1.779E-04
303	SNOW	-0.0110	-6.190E-04	-0.0234	3.250E-04	-3.615E-04	-1.458E-04
304	SNOW	-0.0120	-5.367E-04	-0.0287	1.303E-04	-4.238E-04	-5.451E-05
305	SNOW	-0.0123	-4.840E-04	-0.0328	1.468E-04	-4.337E-04	-4.468E-05
306	SNOW	-0.0125	-4.048E-04	-0.0360	1.451E-05	-4.356E-04	8.520E-06
307	SNOW	-0.0123	-2.469E-04	-0.0397	1.154E-04	-4.593E-04	-3.120E-05
308	SNOW	-0.0123	-7.652E-05	-0.0405	-1.266E-05	-4.784E-04	3.891E-06
309	SNOW	-0.0123	7.433E-05	-0.0405	1.267E-05	-4.784E-04	-3.906E-06
310	SNOW	-0.0123	2.447E-04	-0.0397	-1.154E-04	-4.593E-04	3.118E-05
311	SNOW	-0.0125	4.026E-04	-0.0360	-1.451E-05	-4.356E-04	-8.532E-06
312	SNOW	-0.0123	4.818E-04	-0.0328	-1.468E-04	-4.337E-04	4.467E-05
313	SNOW	-0.0120	5.345E-04	-0.0287	-1.304E-04	-4.238E-04	5.451E-05
314	SNOW	-0.0110	6.168E-04	-0.0234	-3.250E-04	-3.616E-04	1.458E-04