

TABLE: Joint Displacements									
Joint	OutputCase	CaseType	StepType	U1	U2	U3	R1	R2	R3
Text	Text	Text	Text	m	m	m	Radians	Radians	Radians
140	Tren A8	LinDirHis	Max	0	0	1.084E-11	0.000004117	0.000024	0
140	Tren A8	LinDirHis	Min	0	0	-0.000257	-0.00000163	-3.044E-13	0
229	Tren A8	LinDirHis	Max	0	0	3.779E-12	2.194E-08	1.12E-12	0
229	Tren A8	LinDirHis	Min	0	0	-0.000236	-0.000064	-0.000021	0
230	Tren A8	LinDirHis	Max	0	0	3.982E-12	2.907E-07	6.543E-12	0
230	Tren A8	LinDirHis	Min	0	0	-0.000247	-0.000031	-0.000014	0
231	Tren A8	LinDirHis	Max	0	0	3.573E-13	9.573E-13	0.000019	0
231	Tren A8	LinDirHis	Min	0	0	-0.000202	-0.000085	-0.000009384	0
232	Tren A8	LinDirHis	Max	0	0	0.000002247	9.827E-13	0.000048	0
232	Tren A8	LinDirHis	Min	0	0	-0.000344	-0.000098	-0.000004012	0
233	Tren A8	LinDirHis	Max	0	0	0.000003691	6.614E-13	0.000023	0
233	Tren A8	LinDirHis	Min	0	0	-0.000454	-0.000128	-0.000007134	0
234	Tren A8	LinDirHis	Max	0	0	0.000001242	2.664E-07	0.000049	0
234	Tren A8	LinDirHis	Min	0	0	-0.000512	-0.000169	-0.000011	0
235	Tren A8	LinDirHis	Max	0	0	6.076E-07	0.000000208	0.000064	0
235	Tren A8	LinDirHis	Min	0	0	-0.000717	-0.000173	-0.000007962	0
236	Tren A8	LinDirHis	Max	0	0	0.000002058	7.442E-08	0.000047	0
236	Tren A8	LinDirHis	Min	0	0	-0.00088	-0.000197	-0.000013	0
237	Tren A8	LinDirHis	Max	0	0	0.000001108	2.573E-07	0.000069	0
237	Tren A8	LinDirHis	Min	0	0	-0.001028	-0.00022	-0.000015	0
238	Tren A8	LinDirHis	Max	0	0	8.683E-07	1.986E-07	0.000072	0
238	Tren A8	LinDirHis	Min	0	0	-0.001257	-0.000217	-0.000016	0
239	Tren A8	LinDirHis	Max	0	0	0.000001979	1.408E-07	0.000066	0
239	Tren A8	LinDirHis	Min	0	0	-0.001439	-0.000233	-0.00002	0
240	Tren A8	LinDirHis	Max	0	0	0.000001927	3.002E-07	0.000079	0
240	Tren A8	LinDirHis	Min	0	0	-0.001631	-0.00024	-0.000021	0
241	Tren A8	LinDirHis	Max	0	0	0.000002041	2.957E-07	0.000078	0
241	Tren A8	LinDirHis	Min	0	0	-0.001862	-0.000235	-0.000023	0
242	Tren A8	LinDirHis	Max	0	0	0.000002819	2.727E-07	0.000078	0
242	Tren A8	LinDirHis	Min	0	0	-0.002066	-0.000239	-0.000029	0
244	Tren A8	LinDirHis	Max	0	0	0.000003194	3.645E-07	0.000082	0
244	Tren A8	LinDirHis	Min	0	0	-0.002488	-0.000225	-0.000035	0
245	Tren A8	LinDirHis	Max	0	0	0.000004123	0.00000035	0.000082	0
245	Tren A8	LinDirHis	Min	0	0	-0.002682	-0.000219	-0.000041	0
246	Tren A8	LinDirHis	Max	0	0	0.000004752	4.129E-07	0.000083	0
246	Tren A8	LinDirHis	Min	0	0	-0.002877	-0.000206	-0.000045	0
247	Tren A8	LinDirHis	Max	0	0	0.000005422	0.000000347	0.000081	0
247	Tren A8	LinDirHis	Min	0	0	-0.003068	-0.00019	-0.000053	0
248	Tren A8	LinDirHis	Max	0	0	0.000006422	3.128E-07	0.000083	0
248	Tren A8	LinDirHis	Min	0	0	-0.003247	-0.000176	-0.000059	0
249	Tren A8	LinDirHis	Max	0	0	0.000007282	3.501E-07	0.00008	0
249	Tren A8	LinDirHis	Min	0	0	-0.003412	-0.000157	-0.000065	0
250	Tren A8	LinDirHis	Max	0	0	0.000008594	3.511E-07	0.000075	0
250	Tren A8	LinDirHis	Min	0	0	-0.003558	-0.000137	-0.00007	0
251	Tren A8	LinDirHis	Max	0	0	0.00001	3.488E-07	0.000071	0
251	Tren A8	LinDirHis	Min	0	0	-0.003683	-0.000117	-0.000075	0
252	Tren A8	LinDirHis	Max	0	0	0.000011	3.533E-07	0.000067	0

252	Tren A8	LinDirHis	Min	0	0	-0.003784	-0.000093	-0.00008	0
253	Tren A8	LinDirHis	Max	0	0	0.000012	3.048E-07	0.000061	0
253	Tren A8	LinDirHis	Min	0	0	-0.003862	-0.000069	-0.000085	0
254	Tren A8	LinDirHis	Max	0	0	0.000013	0.000000255	0.000056	0
254	Tren A8	LinDirHis	Min	0	0	-0.003916	-0.000045	-0.000089	0
255	Tren A8	LinDirHis	Max	0	0	0.000013	1.914E-07	0.000051	0
255	Tren A8	LinDirHis	Min	0	0	-0.003946	-0.000022	-0.000092	0
256	Tren A8	LinDirHis	Max	0	0	0.000013	0.000015	0.000044	0
256	Tren A8	LinDirHis	Min	0	0	-0.003952	-0.000008007	-0.000095	0
257	Tren A8	LinDirHis	Max	0	0	0.000013	0.00004	0.000037	0
257	Tren A8	LinDirHis	Min	0	0	-0.003931	-0.000004484	-0.000098	0
258	Tren A8	LinDirHis	Max	0	0	0.000013	0.000065	0.00003	0
258	Tren A8	LinDirHis	Min	0	0	-0.003879	-0.000002588	-0.0001	0
259	Tren A8	LinDirHis	Max	0	0	0.000014	0.00009	0.000022	0
259	Tren A8	LinDirHis	Min	0	0	-0.003798	-0.000001747	-0.0001	0
260	Tren A8	LinDirHis	Max	0	0	0.000014	0.000114	0.000013	0
260	Tren A8	LinDirHis	Min	0	0	-0.003691	-0.000001241	-0.0001	0
261	Tren A8	LinDirHis	Max	0	0	0.000013	0.000137	0.000005432	0
261	Tren A8	LinDirHis	Min	0	0	-0.003554	-9.265E-07	-0.000099	0
262	Tren A8	LinDirHis	Max	0	0	0.000013	0.00016	0.000001585	0
262	Tren A8	LinDirHis	Min	0	0	-0.003391	-9.732E-07	-0.000102	0
263	Tren A8	LinDirHis	Max	0	0	0.000012	0.000179	0.00000155	0
263	Tren A8	LinDirHis	Min	0	0	-0.003205	-9.835E-07	-0.000101	0
264	Tren A8	LinDirHis	Max	0	0	0.000012	0.000197	0.000001447	0
264	Tren A8	LinDirHis	Min	0	0	-0.002999	-8.964E-07	-0.0001	0
265	Tren A8	LinDirHis	Max	0	0	0.00001	0.000214	0.000001396	0
265	Tren A8	LinDirHis	Min	0	0	-0.002771	-8.775E-07	-0.0001	0
266	Tren A8	LinDirHis	Max	0	0	0.000008628	0.000224	0.00000125	0
266	Tren A8	LinDirHis	Min	0	0	-0.002534	-8.931E-07	-0.000098	0
267	Tren A8	LinDirHis	Max	0	0	0.000007621	0.000231	0.000001027	0
267	Tren A8	LinDirHis	Min	0	0	-0.002281	-8.105E-07	-0.0001	0
268	Tren A8	LinDirHis	Max	0	0	0.00000652	0.000241	9.644E-07	0
268	Tren A8	LinDirHis	Min	0	0	-0.001999	-8.913E-07	-0.000096	0
269	Tren A8	LinDirHis	Max	0	0	0.000005556	0.000235	8.085E-07	0
269	Tren A8	LinDirHis	Min	0	0	-0.001743	-8.747E-07	-0.000086	0
270	Tren A8	LinDirHis	Max	0	0	0.00000543	0.000229	7.145E-07	0
270	Tren A8	LinDirHis	Min	0	0	-0.001471	-7.689E-07	-0.000091	0
271	Tren A8	LinDirHis	Max	0	0	0.000004178	0.000227	7.717E-07	0
271	Tren A8	LinDirHis	Min	0	0	-0.001187	-8.841E-07	-0.000079	0
272	Tren A8	LinDirHis	Max	0	0	0.000003525	0.000199	5.451E-07	0
272	Tren A8	LinDirHis	Min	0	0	-0.000979	-7.414E-07	-0.000065	0
273	Tren A8	LinDirHis	Max	0	0	0.000003591	0.00018	5.205E-07	0
273	Tren A8	LinDirHis	Min	0	0	-0.000733	-6.003E-07	-0.000072	0
274	Tren A8	LinDirHis	Max	0	0	0.000001873	0.00016	0.000000577	0
274	Tren A8	LinDirHis	Min	0	0	-0.000514	-7.044E-07	-0.000045	0
275	Tren A8	LinDirHis	Max	0	0	0.000002314	0.000103	2.501E-07	0
275	Tren A8	LinDirHis	Min	0	0	-0.000426	-5.481E-07	-0.000033	0
276	Tren A8	LinDirHis	Max	0	0	0.000002276	0.000068	6.252E-07	0
276	Tren A8	LinDirHis	Min	0	0	-0.000241	-4.089E-07	-0.000053	0
277	Tren A8	LinDirHis	Max	0	0	0.000004004	0.000025	0.000006567	0

277	Tren A8	LinDirHis	Min	0	0	-0.00009	-4.848E-07	-0.000007422	0
278	Tren A8	LinDirHis	Max	0	0	9.922E-07	0.000033	4.186E-07	0
278	Tren A8	LinDirHis	Min	0	0	-0.000092	-4.628E-07	-0.000035	0
279	Tren A8	LinDirHis	Max	0	0	4.904E-12	0.000002484	0.000073	0
279	Tren A8	LinDirHis	Min	0	0	-0.000132	-1.163E-12	-0.000001379	0
280	Tren A8	LinDirHis	Max	0	0	7.01E-08	2.304E-13	0.000048	0
280	Tren A8	LinDirHis	Min	0	0	-0.000275	-0.000094	-0.000004674	0
283	Tren A8	LinDirHis	Max	0	0	0.000003469	1.827E-13	0.000035	0
283	Tren A8	LinDirHis	Min	0	0	-0.000429	-0.000113	-0.000002013	0
347	Tren A8	LinDirHis	Max	0	0	0.000002619	1.084E-07	0.000021	0
347	Tren A8	LinDirHis	Min	0	0	-0.000488	-0.000157	-0.000008643	0
378	Tren A8	LinDirHis	Max	0	0	3.373E-07	2.896E-07	0.000068	0
378	Tren A8	LinDirHis	Min	0	0	-0.000624	-0.000175	-0.00000601	0
379	Tren A8	LinDirHis	Max	0	0	0.000001416	1.212E-07	0.000052	0
379	Tren A8	LinDirHis	Min	0	0	-0.000823	-0.000187	-0.000006986	0
380	Tren A8	LinDirHis	Max	0	0	0.000001753	1.306E-07	0.000053	0
380	Tren A8	LinDirHis	Min	0	0	-0.000955	-0.000216	-0.000012	0
381	Tren A8	LinDirHis	Max	0	0	7.402E-07	2.472E-07	0.000078	0
381	Tren A8	LinDirHis	Min	0	0	-0.001152	-0.000223	-0.000012	0
383	Tren A8	LinDirHis	Max	0	0	0.000001678	1.902E-07	0.000064	0
383	Tren A8	LinDirHis	Min	0	0	-0.001359	-0.000229	-0.000016	0
388	Tren A8	LinDirHis	Max	0	0	0.000001696	2.499E-07	0.000071	0
388	Tren A8	LinDirHis	Min	0	0	-0.001536	-0.000244	-0.000021	0
389	Tren A8	LinDirHis	Max	0	0	0.000001739	3.686E-07	0.000082	0
389	Tren A8	LinDirHis	Min	0	0	-0.001755	-0.000242	-0.000022	0
390	Tren A8	LinDirHis	Max	0	0	0.00000238	2.754E-07	0.000077	0
390	Tren A8	LinDirHis	Min	0	0	-0.001974	-0.000242	-0.000026	0
391	Tren A8	LinDirHis	Max	0	0	0.000003164	3.566E-07	0.000082	0
391	Tren A8	LinDirHis	Min	0	0	-0.002181	-0.000244	-0.00003	0
392	Tren A8	LinDirHis	Max	0	0	0.000003277	3.583E-07	0.000082	0
392	Tren A8	LinDirHis	Min	0	0	-0.0024	-0.000234	-0.000032	0
393	Tren A8	LinDirHis	Max	0	0	0.000004023	3.199E-07	0.000082	0
393	Tren A8	LinDirHis	Min	0	0	-0.002602	-0.000228	-0.000037	0
394	Tren A8	LinDirHis	Max	0	0	0.000004484	3.637E-07	0.000082	0
394	Tren A8	LinDirHis	Min	0	0	-0.002796	-0.000219	-0.000043	0
448	Tren A8	LinDirHis	Max	0	0	0.000004593	4.134E-07	0.000081	0
448	Tren A8	LinDirHis	Min	0	0	-0.002989	-0.000203	-0.000047	0
449	Tren A8	LinDirHis	Max	0	0	0.000005197	3.736E-07	0.00008	0
449	Tren A8	LinDirHis	Min	0	0	-0.003171	-0.000189	-0.000055	0
450	Tren A8	LinDirHis	Max	0	0	0.000006061	3.883E-07	0.000078	0
450	Tren A8	LinDirHis	Min	0	0	-0.003342	-0.00017	-0.000061	0
451	Tren A8	LinDirHis	Max	0	0	0.000007079	3.859E-07	0.000076	0
451	Tren A8	LinDirHis	Min	0	0	-0.003496	-0.000148	-0.000065	0
452	Tren A8	LinDirHis	Max	0	0	0.000008522	3.518E-07	0.000073	0
452	Tren A8	LinDirHis	Min	0	0	-0.003627	-0.000128	-0.00007	0
455	Tren A8	LinDirHis	Max	0	0	0.000009955	0.000000351	0.000067	0
455	Tren A8	LinDirHis	Min	0	0	-0.003736	-0.000106	-0.000074	0
516	Tren A8	LinDirHis	Max	0	0	0.000011	0.000000303	0.000063	0
516	Tren A8	LinDirHis	Min	0	0	-0.003829	-0.000081	-0.000076	0
517	Tren A8	LinDirHis	Max	0	0	0.000012	2.712E-07	0.000058	0

517	Tren A8	LinDirHis	Min	0	0	-0.003897	-0.000057	-0.000081	0
518	Tren A8	LinDirHis	Max	0	0	0.000013	0.000000242	0.000052	0
518	Tren A8	LinDirHis	Min	0	0	-0.003942	-0.000034	-0.000086	0
519	Tren A8	LinDirHis	Max	0	0	0.000014	0.000003667	0.000047	0
519	Tren A8	LinDirHis	Min	0	0	-0.003964	-0.000013	-0.000088	0
527	Tren A8	LinDirHis	Max	0	0	0.000014	0.000028	0.000041	0
527	Tren A8	LinDirHis	Min	0	0	-0.003959	-0.000005719	-0.000092	0
528	Tren A8	LinDirHis	Max	0	0	0.000015	0.000053	0.000032	0
528	Tren A8	LinDirHis	Min	0	0	-0.003925	-0.000003592	-0.000095	0
529	Tren A8	LinDirHis	Max	0	0	0.000015	0.000079	0.000025	0
529	Tren A8	LinDirHis	Min	0	0	-0.003863	-0.000002214	-0.000096	0
531	Tren A8	LinDirHis	Max	0	0	0.000015	0.000104	0.000017	0
531	Tren A8	LinDirHis	Min	0	0	-0.003768	-0.000001555	-0.000098	0
532	Tren A8	LinDirHis	Max	0	0	0.000014	0.000127	0.000007781	0
532	Tren A8	LinDirHis	Min	0	0	-0.003643	-0.000001122	-0.000099	0
533	Tren A8	LinDirHis	Max	0	0	0.000014	0.00015	0.000001495	0
533	Tren A8	LinDirHis	Min	0	0	-0.003489	-0.000001066	-0.000098	0
539	Tren A8	LinDirHis	Max	0	0	0.000013	0.000173	0.000001467	0
539	Tren A8	LinDirHis	Min	0	0	-0.003311	-9.885E-07	-0.000097	0
540	Tren A8	LinDirHis	Max	0	0	0.000012	0.000192	0.000001329	0
540	Tren A8	LinDirHis	Min	0	0	-0.003114	-9.719E-07	-0.000098	0
541	Tren A8	LinDirHis	Max	0	0	0.00001	0.000211	0.000001231	0
541	Tren A8	LinDirHis	Min	0	0	-0.002893	-0.000001004	-0.000099	0
542	Tren A8	LinDirHis	Max	0	0	0.000008897	0.000225	0.000001209	0
542	Tren A8	LinDirHis	Min	0	0	-0.002657	-0.000001017	-0.0001	0
543	Tren A8	LinDirHis	Max	0	0	0.000007679	0.000231	0.000001064	0
543	Tren A8	LinDirHis	Min	0	0	-0.002413	-8.403E-07	-0.000099	0
544	Tren A8	LinDirHis	Max	0	0	0.000006948	0.000241	0.000000093	0
544	Tren A8	LinDirHis	Min	0	0	-0.002146	-8.059E-07	-0.000101	0
545	Tren A8	LinDirHis	Max	0	0	0.000005909	0.000243	8.668E-07	0
545	Tren A8	LinDirHis	Min	0	0	-0.001875	-8.674E-07	-0.000091	0
546	Tren A8	LinDirHis	Max	0	0	0.00000529	0.000233	7.141E-07	0
546	Tren A8	LinDirHis	Min	0	0	-0.001622	-8.194E-07	-0.000088	0
547	Tren A8	LinDirHis	Max	0	0	0.00000486	0.000233	6.812E-07	0
547	Tren A8	LinDirHis	Min	0	0	-0.001337	-8.098E-07	-0.000089	0
548	Tren A8	LinDirHis	Max	0	0	0.000003614	0.000219	6.276E-07	0
548	Tren A8	LinDirHis	Min	0	0	-0.001089	-8.944E-07	-0.000063	0
549	Tren A8	LinDirHis	Max	0	0	0.0000033	0.000192	0.000000448	0
549	Tren A8	LinDirHis	Min	0	0	-0.000875	-7.436E-07	-0.000068	0
550	Tren A8	LinDirHis	Max	0	0	0.000002762	0.000177	6.062E-07	0
550	Tren A8	LinDirHis	Min	0	0	-0.000622	-7.214E-07	-0.000064	0
551	Tren A8	LinDirHis	Max	0	0	0.000001551	0.000137	3.546E-07	0
551	Tren A8	LinDirHis	Min	0	0	-0.000482	-7.403E-07	-0.000023	0
552	Tren A8	LinDirHis	Max	0	0	0.000003163	0.000084	3.188E-07	0
552	Tren A8	LinDirHis	Min	0	0	-0.00036	-0.000000496	-0.000054	0
553	Tren A8	LinDirHis	Max	0	0	0.000001072	0.00005	6.078E-07	0
553	Tren A8	LinDirHis	Min	0	0	-0.000171	-5.234E-07	-0.000038	0
556	Tren A8	LinDirHis	Max	0	0	5.852E-12	0.000004175	0.00008	0
556	Tren A8	LinDirHis	Min	0	0	-0.000152	-1.384E-12	-0.000001538	0
557	Tren A8	LinDirHis	Max	0	0	0.000002757	3.753E-07	0.000085	0

Apéndice S1				Flecha Dinámica Tren A8						V= 280 km/h
557	Tren A8	LinDirHis	Min	0	0	-0.002278	-0.000235	-0.000032	0	