

Member Forces due to

		Data from RISA		Real	Unit	(ft)	A	4 in ²
	member	member	forces	(kip)	(kip)		E	29000 in ⁴
				F _P	F _Q	L	F _P *F _Q *L	
1	1- 2	-28.00	-1000.00	28	1	15	420	
2	2- 3	-28.00	-1000.00	28	1	15	420	
3	3- 4	-28.00	-1000.00	28	1	15	420	
4	4- 5	-28.00	-1000.00	28	1	15	420	
5	1- 6	31.30	1118.03	-31.3	-1.11803	16.77	586.8551	
6	6- 7	22.36	1118.03	-22.36	-1.11803	16.77	419.2358	
7	7- 8	22.36	1118.03	-22.36	-1.11803	16.77	419.2358	
8	8- 5	31.30	1118.03	-31.3	-1.11803	16.77	586.8551	
9	2- 6	0.00	0.00	0	0	7.5	0	
10	3- 7	-8.00	-1000.00	8	1	15	120	
11	4- 8	0.00	0.00	0	0	7.5	0	
12	6- 3	8.94	0.00	-8.94	0	16.77	0	
13	3- 8	8.94	0.00	-8.94	0	16.77	0	
							Σ	3812.182

δ 0.394364 inches down

temperature case	t	F _Q	L	t*F _Q *L	α
1	0	1	15	0	6.50E-06 /°F
2	0	1	15	0	
3	0	1	15	0	
4	0	1	15	0	
5	100	-1.11803	16.77	-1874.94	
6	100	-1.11803	16.77	-1874.94	
7	100	-1.11803	16.77	-1874.94	
8	100	-1.11803	16.77	-1874.94	
9	0	0	7.5	0	
10	0	1	15	0	
11	0	0	7.5	0	
12	0	0	16.77	0	
13	0	0	16.77	0	
				S	-7499.75

δ -5.85E-01 inches
or 0.58498 inches up