Applied force (N)	X displacement (mm)	Angle (°)	Stress (Pa)	Moment (N m)	Stiffness (N m rad^{-1})
1	0.738	2.299308607	9.86×10^6	0.02539	0.632685783
2	1.48	4.611079591	1.97×10^7	0.05078	0.630975822
3	2.21	6.885463443	2.96×10^7	0.07617	0.633830916
4	2.95	9.191003239	3.94×10^7	0.10156	0.633114723
5	3.69	11.49654303	4.93×10^7	0.12695	0.632685783
6	4.43	<u>13.80208283</u>	<u>5.91×10^7</u>	0.15234	0.632400146
7	5.166	16.09516025	6.90×10^7	0.17773	0.632685783
8	5.904	18.39446886	7.86×10^7	0.20312	0.632685783
9	6.642	20.69377746	8.87×10^7	0.22851	0.632685783

Table 1: Results of the performed stress analysis. The underlined values represent the maximum stress that the beams can suffer without causing permanent deformation. Consequently, the maximum rotation angle is 13.8°.