

TABLE IV.—*Loads, shear, and bending moments in U. S. S. ZR-1 when the gross lift is 136,634 pounds*

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Station meters	Gross lift	Fixed weight	Dispos- able weight	Total weight	Load	Shear	Bending moment m.
	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>	<i>Pounds</i>
0-----	307	2, 618	0	2, 618	-2, 311	-2, 311	
10-----	1, 453	1, 877	0	1, 877	-424	-2, 735	-23, 110
20-----	2, 812	1, 902	0	1, 902	910	-1, 825	-50, 460
30-----	4, 496	1, 991	2, 276	4, 267	229	-1, 596	-68, 710
40-----	5, 789	2, 328	2, 200	4, 528	1, 261	-335	-84, 670
50-----	7, 128	2, 389	5, 182	7, 571	-443	-778	-88, 020
60-----	8, 218	5, 858	1, 512	7, 370	848	70	-95, 800
70-----	8, 985	2, 708	2, 378	5, 086	3, 899	3, 969	-95, 100
80-----	9, 402	3, 091	5, 656	8, 747	655	4, 624	-55, 410
90-----	9, 510	9, 483	6, 100	15, 583	-6, 073	-1, 449	-9, 170
100-----	9, 540	3, 224	6, 055	9, 279	261	-1, 188	-24, 660
110-----	9, 584	3, 069	5, 704	8, 773	811	-377	-36, 540
120-----	9, 560	8, 183	5, 016	13, 199	-3, 639	-4, 016	-40, 310
130-----	9, 536	3, 096	1, 790	4, 886	4, 650	634	-80, 470
140-----	9, 417	3, 064	5, 562	8, 626	791	1, 425	-74, 130
150-----	9, 003	2, 712	5, 406	8, 118	885	2, 310	-59, 880
160-----	8, 169	8, 057	2, 259	10, 316	-2, 147	168	-36, 780
170-----	6, 778	3, 076	2, 653	5, 729	1, 049	1, 212	-35, 150
180-----	4, 467	3, 212	1, 227	4, 439	28	1, 240	-23, 030
188-----	2, 222	1, 520	0	1, 520	702	1, 942	-13, 110
194.75-----	258	1, 100	1, 100	2, 200	-1, 942		0
	136, 634	74, 558	62, 076	136, 634	0000		

(4) The load on each frame, shearing forces, and bending moments are then computed and tabulated as explained in *d*, *e*, *f*, *g*, and *h* above. A table so prepared, extracted from Airship Design, is given below.