

TABLE VIII.—Maximum Stresses for different positions of Load Axis.

(a) ANGLE WITH ϕ° END-PLATE

LOAD (LBS)	Maximum Stress calculated from mean experimental load axis allowing for bending (-81, .60)	MAXIMUM STRESSES (THEORETICAL) NEGLECTING BENDING					
		Load axis having co-ordinates (-1.00, .65)	Load axis at outside face of plate (-1.60, .65)	Load axis at middle of plate (-1.23, .65)	Load axis at junct- tion of plate & angle (-0.85, .65)	Load axis at middle of angle (-0.72, .65)	Load axis at inner face of angle (-0.58, .65)
-5,000	7,100	7,100	5,610	6,540	7,480	7,800	8,140
10,000	14,200	14,200	11,220	13,080	14,970	15,600	16,280
15,000	21,600	21,600	16,830	19,630	22,450	23,400	24,430
20,000	28,400	28,400	22,440	26,180	29,940	31,200	32,580
Max-Mean ^a	2.16	2.16	1.70	1.99	2.28	2.37	2.48
^a	74° 55'	84° 36'	76° 12'	84° 54'	72° 25'	56° 24'	32° 36'

(b) ANGLE WITH ϕ° END-PLATE

LOAD (LBS)	Maximum Stress calculated from mean experimental load axis allowing for bending (-81, .62)	MAXIMUM STRESSES (THEORETICAL) NEGLECTING BENDING					
		Load axis having co-ordinates (-1.00, .66)	Load axis at outside face of plate (-1.09, .66)	Load axis at middle of plate (-.96, .66)	Load axis at junct- tion of plate & angle (-0.84, .66)	Load axis at middle of angle (-0.72, .66)	Load axis at inner face of angle (-0.59, .66)
5,000	7,490	7,490	7,250	7,600	7,950	8,300	8,650
10,000	14,980	14,980	14,500	15,200	15,900	16,600	17,300
15,000	22,470	22,470	21,750	22,800	23,850	24,900	25,950
20,000	29,960	29,960	29,000	30,400	31,800	33,200	34,600
Max-Mean ^a	2.16	2.16	2.09	2.19	2.29	2.39	2.49
^a	75° 10'	72° 42'	89° 16'	81° 18'	70° 24'	54° 48'	32° 21'