Input Parameter			
L (in)	7.25	Outer pin center to center distance	
D (in)	0.375	Pin diameter	
d (in)	0.09375	Cable Diameter	
t (in)	0.5	Plate thickness	
r	2	Ratio of h/t	
G (in)	0.492126	Effective strain Gage Length	
T (lb)	2000	Trial tension value	
E (psi)	1.00E+07	Modulus of elasticity	
σy (ksi)	36	Yield strength	
x (in)	0.4063	Location of strain gage centroid	
Output Values			
lc (in)	2.344	Length of cantilever	
h (in)	1	Cantilever x-sect height	
I (in^4)	0.04166666667	Moment of inertia	
Θ (rad)	0.1296734537	Fixed cable deflection angle (assumes no cantilever deflection)	
F (lb)	517.2413793	Pin load on cantilever, due to cable tension (assuming no cantilever deflection)	
σ (ksi)	12.02555172	Cantilever stress at strain gages	
ε (με)	1,202.56	Micro strain = 1 million times stress/modulus	
y (in)	0.001332	Cantilever deflection	
Θ' (rad)	0.1293060453	Corrected cable deflection angle by adding deflection	
% Error	0.28%	% difference of assumed cable deflection angle and corrected cable deflection	
S	2.993625642	Safety Factor	