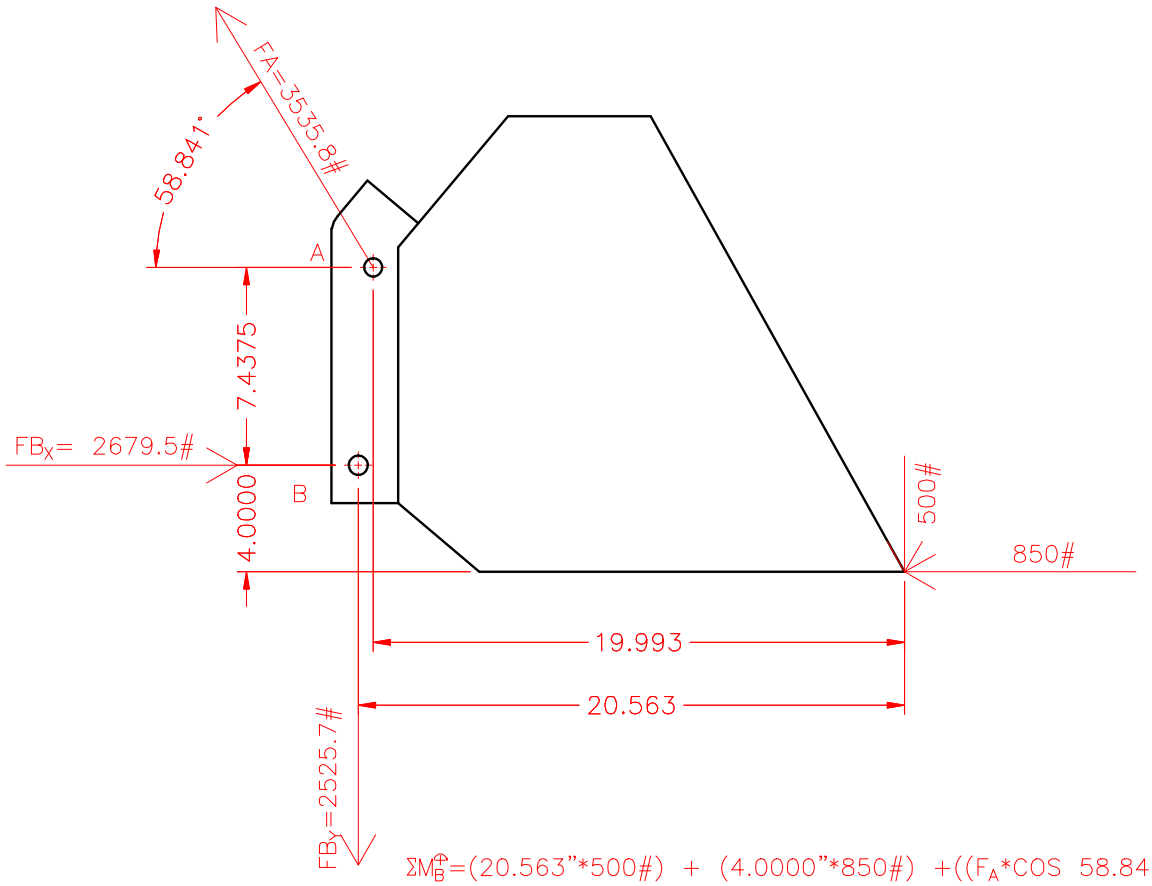

$\Sigma M_B^{\circlearrowleft}=(20.563"*500\#) + (4.0000"*850\#) +((F_A*\text{COS } 58.841°)*(7.4375"))=0$

$13681.5"\# +((F_A*\text{COS } 58.841°)*(7.4375"))=0$

$13681.5"\# +((F_A*\text{COS } 58.841°)*(7.4375"))=0$

$-((F_A*\text{COS } 58.841°)*(7.4375")) -((F_A*\text{COS } 58.841°)*(7.4375"))$

$13681.5"\# = -((F_A*\text{COS } 58.841°)*(7.4375"))$

$$\frac{13681.5"\#}{7.4375"} = \frac{-((F_A*\text{COS } 58.841°)*(7.4375"))}{7.4375"}$$

$$\frac{1839.5\#}{\text{COS } 58.841°} = \frac{-F_A*\text{COS } 58.841°}{\text{COS } 58.841°}$$

$3535.8\# = -F_A$

$-3535.8\#=F_A$

$\Sigma F_X^{\rightarrow}=-850\# + (-3535.8\#*\text{COS } 58.841°) + FB_x=0$

$-2679.5\# + FB_x= 0$

$-FB_x \quad -FB_x$

$-2679.5\#= -FB_x$

$2679.5\#=FB_x$

$\Sigma F_Y^{\uparrow}=-500\# + (+3535.8\#*\text{SIN } 58.841°) - FB_Y=0$

$-2525.7 - FB_Y= 0$

$+FB_Y \quad +FB_Y$

$-2525.7=FB_Y$