



$$\Sigma M_B^P = (20.563'' * 500\#) + (4.0000'' * 850\#) + ((-F_{Ax} * \cos 58.841^\circ) * (7.4375'')) + ((F_{Ay} * \sin 58.841^\circ) * (.57000')) = 0$$

$$13681.5''\# + ((-F_{Ax} * \cos 58.841^\circ) * (7.4375'')) + ((-F_{Ay} * \sin 58.841^\circ) * (.57000')) = 0$$

$$13681.5''\# + ((-F_{Ax} * \cos 58.841^\circ) * (7.4375'')) + ((-F_{Ay} * \sin 58.841^\circ) * (.57000')) = 0$$

$$13681.5''\# + (-F_{Ax} * 3.8483) + (-F_{Ay} * .48777) = 0$$

$$-(-F_{Ax} * 3.8483) - (-F_{Ay} * .48777) - (-F_{Ax} * 3.8483) - (-F_{Ay} * .48777) = 0$$

$$13681.5''\# = (-F_{Ax} * 3.8483) + (-F_{Ay} * .48777)$$

$$\frac{13681.5''\#}{4.3361} = \frac{-FA * 4.3361}{4.3361}$$

$$3155.3\# = -FA$$

$$-3155.3\# = FA$$

$$\Sigma F_X^F = -850\# + (-3155.3\# * \cos 58.841^\circ) + F_{Bx} = 0$$

$$\frac{-2482.6\# + F_{Bx}}{-F_{Bx} - F_{Bx}} = 0$$

$$-2482.6\# = -F_{Bx}$$

$$2482.6\# = F_{Bx}$$

$$\Sigma F_Y^F = -500\# + (3155.3\# * \sin 58.841^\circ) - F_{By} = 0$$

$$-2200.1 - F_{By} = 0$$

$$+F_{By} + F_{By}$$

$$-2200.1\# = F_{By}$$