5.65

5.65 How much power is transferred to the moving vane of Problem 5.65?

Power =
$$F_AV$$
, where from Problem 5.66 $F_A=14616$
Thus,

Power =
$$\frac{(1461b)(10\frac{ft}{s})}{(550\frac{ft.1b}{s.hp})} = \frac{2.65}{hp}$$