in which the 2,500 appears in the denominator to reduce to field amperes. This armature reaction will weaken the field, and require an excitation of 55.9 plus .76 = 666 amperes.

Checking the above for lagging current  $E_{_{\rm m}}=360$  minus 14:35=34565. This corresponds to no load excitation of 4.5 amps. X $\cdot$  as before equals .76 and X, 374 amperes. As it will be seen, the two above points coincide very closely with the curve which represents values actually observed on test.