LET'S CONSIDER A CIRCUM LOOP ANTENNA MAKE OF COPPER WIKE HAVING RASIOS OF THIS SUCH TOLD LOOP IS b=12 cm. AND THE OPERATING FREQUENCY IS f=30 MHz FIND THE INPOT IMPERANCE

 $\lambda = \frac{2}{6} = \frac{3}{30} = \frac{108}{100} = \frac{1}{100} = \frac{3}{100} = \frac$

RADIATION RESISTANCE $R_R = 31200$ (Not) N=1 SINGLE TORN

LOOP AREA $S = Tb^2 = 0,0552$ m²

2001 7001 200 100 200 100 100

RR = 0,0069 LL = 6,9 ml

SISSIPPLYION RESIDENCE $R_{P} = \frac{7}{240} = \frac{7}{240}$

1 = 12,07 pm = 12,07 pm

Ry = 0,0857 R = 85,7 mil

THE INPUT INDUCTIONS IS $L_A = \mu L$ In $\left(\frac{8L}{a}\right) - 2 = 6.29$ AH

THE REACTIVE PART OF THE INPUT IMPERSION IN XA=WL = 27/4 = 1186 L

24 3811 j+ 15000 = x j+27 +27 = x 300034m1 Pagal Jator sur

448 THE RADATION EFFICIENCY IT ER = RR = 90060 = 0,0695 \ RR+ Ru = 0,0060 + 2,0087 \ \ 200 \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 200 \ \ 2