





When you plot the  $|F(\theta)|$ , you shall notice that at  $\theta=0$ ,  $F(0) \rightarrow 0$  (taking the limit)

The sidelobe level (SLL) =  $1/1.4 = 0.71$

The Half power level is  $1.4 * 0.707 = 1$  (This happened to be the same as the level of sidelobe which is not generally the case).

HPBM =  $57 - 24.7 = 32.3$  (deg)