Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

	1900MHz	
Maximum peak output power at antenna input terminal:	34.00	(dBm)
Maximum peak output power at antenna input terminal:	2511.886	(mW)
Antenna gain(typical):	7	(dBi)
Maximum antenna gain:	5.011872	(numeric)
Prediction distance:	35	(cm)
Prediction frequency:	1900	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.817813	(mW/cm^2)