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 radia
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	29.50	(dBm)
Maximum peak output power at antenna input terminal:	891.2509381	(mW)
Antenna gain(typical):	4.5	(dBi)
Maximum antenna gain:	2.818382931	(numeric)
Prediction distance:	25	(cm)
Prediction frequency:	1615	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1.000	(mW/cm^2)
Power density at prediction frequency:	0.319823	(mW/cm^2)
Maximum allowable antenna gain:	9.450898814	(dBi)
Margin of Compliance:	4.950898814	