MPE Calculations for NLite L

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

$$S = PG / 4\pi R^2 \quad \text{or} \quad R = \sqrt{PG / 4\pi S}$$

MPE Limit Calculation: EUT's operating frequencies @ **5725 - 5850**; highest conducted power = 30.0 dBm (peak) therefore, Limit for Uncontrolled exposure: 1 mW/cm^2 or 10 W/m^2

EUT maximum antenna gain =**30 dBi.**

where, S = Power Density (1 mW/cm^2)
P = Power Input to antenna (1000.0mW)
G = Antenna Gain (1000 numeric)

$S = (1000*1000/ 4*3.14*20^2) = (1000000 /5024) = $ **198.94 mW/cm^2**

Calculating for R

$R = \sqrt{PG / 4\pi S}$

$R = \sqrt{(1000*1000)} / 4\pi(1)$

R = **282.1 cm**