

Time (min)	L	B/B ₀	>326MeV	>327MeV	>328MeV	>329MeV	>331MeV	>332MeV	>333MeV	>334MeV	>335MeV	>336MeV	>337MeV	>338MeV	>339MeV	>341MeV	>342MeV	TOTAL RADS
5	1.44168	2.14962	8.863E+00 (0.00005rad)	8.750E+00 (0.00005rad)	8.637E+00 (0.00005rad)	8.526E+00 (0.00005rad)	8.309E+00 (0.00005rad)	8.202E+00 (0.00005rad)	8.096E+00 (0.00005rad)	7.992E+00 (0.00005rad)	7.890E+00 (0.00005rad)	7.788E+00 (0.00005rad)	7.688E+00 (0.00005rad)	7.590E+00 (0.00005rad)	7.492E+00 (0.00004rad)	7.301E+00 (0.00004rad)	7.207E+00 (0.00004rad)	0.00072rad
6	1.51254	2.50334	8.061E+00 (0.00005rad)	7.944E+00 (0.00005rad)	7.829E+00 (0.00005rad)	7.716E+00 (0.00004rad)	7.493E+00 (0.00004rad)	7.385E+00 (0.00004rad)	7.277E+00 (0.00004rad)	7.172E+00 (0.00004rad)	7.068E+00 (0.00004rad)	6.965E+00 (0.00004rad)	6.864E+00 (0.00004rad)	6.765E+00 (0.00004rad)	6.667E+00 (0.00004rad)	6.475E+00 (0.00004rad)	6.381E+00 (0.00004rad)	0.00063rad
7	1.62236	2.90373	5.982E+00 (0.00003rad)	5.881E+00 (0.00003rad)	5.781E+00 (0.00003rad)	5.683E+00 (0.00003rad)	5.492E+00 (0.00003rad)	5.399E+00 (0.00003rad)	5.307E+00 (0.00003rad)	5.217E+00 (0.00003rad)	5.129E+00 (0.00003rad)	5.042E+00 (0.00003rad)	4.956E+00 (0.00003rad)	4.879E+00 (0.00003rad)	4.789E+00 (0.00003rad)	4.628E+00 (0.00003rad)	4.550E+00 (0.00003rad)	0.00045rad
TOTALS																		0.00180rad

Depth dose Calculations

$$(\text{Protons/cm}^2/\text{s}) * (100^2 \text{cm}^2) * (3600 \text{s/hr}) = \text{Protons/m}^2/\text{hr}$$

$$(\text{Protons/m}^2/\text{hr}) * 0.11 \text{m}^2 = \text{Protons/hr}$$

$$\text{Protons/hr} * (\text{E MeV/Proton}) = \text{E MeV/hr}$$

$$(\text{E MeV/hr}) * (1.6 * 10^{-13} / \text{MeV}) = \text{Joules/hr}$$

$$(\text{Joules/hr}) / 60 \text{kg} = \text{Gray/hr}$$

$$(\text{Gray/hr}) * 100 \text{rad/hr} = \text{rad/hr}$$

$$\text{Rad/hr} * 1/60 = \text{rad/min}$$