

Time (min)	L	B/B ₀	>343MeV	>344MeV	>345MeV	>346MeV	>347MeV	>348MeV	>349MeV	>351MeV	>352MeV	>353MeV	>354MeV	>355MeV	>356MeV	>357MeV	>358MeV	>359MeV	TOTAL RADS
5	1.44168	2.14962	7.114E+00 (0.00004rad)	7.023E+00 (0.00004rad)	6.933E+00 (0.00004rad)	6.844E+00 (0.00004rad)	6.756E+00 (0.00004rad)	6.669E+00 (0.00004rad)	6.583E+00 (0.00004rad)	6.415E+00 (0.00004rad)	6.333E+00 (0.00004rad)	6.251E+00 (0.00004rad)	6.171E+00 (0.00004rad)	6.092E+00 (0.00004rad)	6.014E+00 (0.00004rad)	5.936E+00 (0.00004rad)	5.860E+00 (0.00004rad)	5.785E+00 (0.00004rad)	0.00064rad
6	1.51254	2.50334	6.288E+00 (0.00004rad)	6.197E+00 (0.00004rad)	6.107E+00 (0.00004rad)	6.018E+00 (0.00004rad)	5.931E+00 (0.00004rad)	5.845E+00 (0.00004rad)	5.760E+00 (0.00004rad)	5.594E+00 (0.00003rad)	5.513E+00 (0.00003rad)	5.433E+00 (0.00003rad)	5.354E+00 (0.00003rad)	5.277E+00 (0.00003rad)	5.200E+00 (0.00003rad)	5.125E+00 (0.00003rad)	5.050E+00 (0.00003rad)	4.977E+00 (0.00003rad)	0.00055rad
7	1.62236	2.90373	4.473E+00 (0.00003rad)	4.397E+00 (0.00003rad)	4.322E+00 (0.00003rad)	4.249E+00 (0.00003rad)	4.177E+00 (0.00003rad)	4.106E+00 (0.00003rad)	4.036E+00 (0.00002rad)	3.901E+00 (0.00002rad)	3.834E+00 (0.00002rad)	3.769E+00 (0.00002rad)	3.705E+00 (0.00002rad)	3.643E+00 (0.00002rad)	3.581E+00 (0.00002rad)	3.520E+00 (0.00002rad)	3.460E+00 (0.00002rad)	3.402E+00 (0.00002rad)	0.00038rad
TOTALS																			0.00157rad

Depth dose Calculations

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

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

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

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

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

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

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