

Time (min)	L	B/B ₀	>289MeV	>291MeV	>292MeV	>293MeV	>294MeV	>295MeV	>296MeV	>297MeV	>298MeV	>299MeV	>301MeV	>302MeV	>303MeV	>304MeV	>305MeV	>306MeV	>307MeV	TOTAL RADS
5	1.44168	2.14962	1.430E+01 (0.00007rad)	1.394E+01 (0.00007rad)	1.376E+01 (0.00007rad)	1.358E+01 (0.00007rad)	1.341E+01 (0.00007rad)	1.323E+01 (0.00007rad)	1.306E+01 (0.00007rad)	1.290E+01 (0.00007rad)	1.273E+01 (0.00007rad)	1.257E+01 (0.00007rad)	1.225E+01 (0.00006rad)	1.209E+01 (0.00006rad)	1.193E+01 (0.00006rad)	1.178E+01 (0.00006rad)	1.163E+01 (0.00006rad)	1.148E+01 (0.00006rad)	1.133E+01 (0.00006rad)	0.00106rad
6	1.51254	2.50334	1.384E+01 (0.00007rad)	1.344E+01 (0.00007rad)	1.325E+01 (0.00007rad)	1.306E+01 (0.00007rad)	1.287E+01 (0.00007rad)	1.268E+01 (0.00007rad)	1.250E+01 (0.00007rad)	1.232E+01 (0.00006rad)	1.214E+01 (0.00006rad)	1.196E+01 (0.00006rad)	1.162E+01 (0.00006rad)	1.145E+01 (0.00006rad)	1.128E+01 (0.00006rad)	1.112E+01 (0.00006rad)	1.096E+01 (0.00006rad)	1.080E+01 (0.00006rad)	1.064E+01 (0.00006rad)	0.00109rad
7	1.62236	2.90373	1.127E+01 (0.00006rad)	1.089E+01 (0.00006rad)	1.070E+01 (0.00005rad)	1.052E+01 (0.00005rad)	1.034E+01 (0.00005rad)	1.017E+01 (0.00005rad)	9.995E+00 (0.00005rad)	9.825E+00 (0.00005rad)	9.658E+00 (0.00005rad)	9.495E+00 (0.00005rad)	9.175E+00 (0.00005rad)	9.020E+00 (0.00005rad)	8.867E+00 (0.00005rad)	8.716E+00 (0.00005rad)	8.568E+00 (0.00005rad)	8.423E+00 (0.00005rad)	8.280E+00 (0.00004rad)	0.00088rad
8	1.73976	3.34539	2.050E+00 (0.00001rad)	1.959E+00 (0.00001rad)	1.914E+00 (0.00001rad)	1.871E+00 (0.00001rad)	1.829E+00 (0.00001rad)	1.788E+00 (0.00001rad)	1.747E+00 (0.00001rad)	1.708E+00 (0.00001rad)	1.670E+00 (0.00001rad)	1.632E+00 (0.00001rad)	1.559E+00 (0.00001rad)	1.524E+00 (0.00001rad)	1.490E+00 (0.00001rad)	1.456E+00 (0.00001rad)	1.423E+00 (0.00001rad)	1.391E+00 (0.00001rad)	1.360E+00 (0.00001rad)	0.00017rad
TOTALS																				0.00320rad

Depth dose Calculations

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

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

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

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

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

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

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