

Time (min)	L	B/B <sub>0</sub>	>271MeV	>272MeV	>273MeV	>274MeV	>275MeV	>276MeV	>277MeV	>278MeV	>279MeV	>281MeV	>282MeV	>283MeV	>284MeV	>285MeV	>286MeV	>287MeV	>288MeV	TOTAL RADS
5	1.44168	2.14962	1.805E+01 (0.00009rad)	1.782E+01 (0.00009rad)	1.759E+01 (0.00008rad)	1.736E+01 (0.00008rad)	1.714E+01 (0.00008rad)	1.692E+01 (0.00008rad)	1.670E+01 (0.00008rad)	1.649E+01 (0.00008rad)	1.628E+01 (0.00008rad)	1.586E+01 (0.00008rad)	1.566E+01 (0.00008rad)	1.546E+01 (0.00008rad)	1.526E+01 (0.00008rad)	1.506E+01 (0.00008rad)	1.487E+01 (0.00007rad)	1.468E+01 (0.00007rad)	1.449E+01 (0.00007rad)	0.00135rad
6	1.51254	2.50334	1.801E+01 (0.00009rad)	1.775E+01 (0.00008rad)	1.749E+01 (0.00008rad)	1.724E+01 (0.00008rad)	1.699E+01 (0.00008rad)	1.674E+01 (0.00008rad)	1.650E+01 (0.00008rad)	1.626E+01 (0.00008rad)	1.602E+01 (0.00008rad)	1.556E+01 (0.00008rad)	1.533E+01 (0.00008rad)	1.511E+01 (0.00008rad)	1.489E+01 (0.00007rad)	1.468E+01 (0.00007rad)	1.446E+01 (0.00007rad)	1.425E+01 (0.00007rad)	1.405E+01 (0.00007rad)	0.00132rad
7	1.62236	2.90373	1.533E+01 (0.00007rad)	1.507E+01 (0.00007rad)	1.481E+01 (0.00007rad)	1.456E+01 (0.00007rad)	1.431E+01 (0.00007rad)	1.407E+01 (0.00007rad)	1.383E+01 (0.00007rad)	1.360E+01 (0.00007rad)	1.337E+01 (0.00007rad)	1.292E+01 (0.00006rad)	1.270E+01 (0.00006rad)	1.248E+01 (0.00006rad)	1.227E+01 (0.00006rad)	1.206E+01 (0.00006rad)	1.186E+01 (0.00006rad)	1.166E+01 (0.00006rad)	1.146E+01 (0.00006rad)	0.00111rad
8	1.73976	3.34539	3.091E+00 (0.00001rad)	3.021E+00 (0.00001rad)	2.953E+00 (0.00001rad)	2.886E+00 (0.00001rad)	2.821E+00 (0.00001rad)	2.758E+00 (0.00001rad)	2.695E+00 (0.00001rad)	2.635E+00 (0.00001rad)	2.575E+00 (0.00001rad)	2.460E+00 (0.00001rad)	2.405E+00 (0.00001rad)	2.351E+00 (0.00001rad)	2.298E+00 (0.00001rad)	2.246E+00 (0.00001rad)	2.195E+00 (0.00001rad)	2.146E+00 (0.00001rad)	2.097E+00 (0.00001rad)	0.00017rad
<b>TOTALS</b>																				<b>0.00395rad</b>

### Depth dose Calculations

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

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

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

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

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

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

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