Muons in calcium tungstate ($CaWO_4$)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.43761	6.062	395.0	0.06210	3.2649	0.0323	3.8932	5.2603	0.00

T	p [MeV/c]	Ionization	Brems	Pair prod	Photonucl	Total	CSDA range [g/cm^2]
		[MeV cm^2/g]					
10.0 MeV	4.704×10^1	4.930				4.930	1.144×10^0
14.0 MeV	5.616×10^1	3.885				3.885	2.067×10^0
20.0 MeV	6.802×10^1	3.063				3.063	3.826×10^0
30.0 MeV	8.509×10^1	2.400				2.400	7.563×10^0
40.0 MeV	1.003×10^2	2.063				2.063	1.209×10^1
80.0 MeV	1.527×10^2	1.567				1.567	3.501×10^1
100. MeV	1.764×10^2	1.477				1.477	4.819×10^1
140. MeV	2.218×10^2	1.389				1.389	7.624×10^1
200. MeV	2.868×10^2	1.345				1.345	1.203×10^2
257. MeV	3.471×10^2	1.336			0.000	1.337	*Minimum ionization*
300. MeV	3.917×10^2	1.339	0.000		0.000	1.339	1.950×10^2
400. MeV	4.945×10^2	1.355	0.000		0.000	1.356	2.693×10^2
800. MeV	8.995×10^2	1.437	0.001		0.000	1.438	5.555×10^2
1.00 GeV	1.101×10^3	1.470	0.001		0.000	1.471	6.930×10^2
1.40 GeV	1.502×10^3	1.523	0.002		0.001	1.526	9.597×10^2
2.00 GeV	2.103×10^3	1.581	0.003	0.001	0.001	1.586	1.345×10^3
3.00 GeV	3.104×10^3	1.647	0.005	0.003	0.001	1.656	1.961×10^3
4.00 GeV	4.104×10^3	1.693	0.007	0.005	0.002	1.706	2.556×10^3
8.00 GeV	8.105×10^3	1.797	0.017	0.015	0.003	1.833	4.809×10^3
10.0 GeV	1.011×10^4	1.828	0.022	0.022	0.004	1.877	5.887×10^3
14.0 GeV	1.411×10^4	1.874	0.034	0.036	0.006	1.950	7.976×10^3
20.0 GeV	2.011×10^4	1.919	0.053	0.058	0.008	2.039	1.098×10^4
30.0 GeV	3.011×10^4	1.967	0.087	0.102	0.012	2.169	1.573×10^4
40.0 GeV	4.011×10^4	1.999	0.123	0.151	0.015	2.289	2.022×10^4
80.0 GeV	8.011×10^4	2.071	0.279	0.363	0.030	2.744	3.615×10^4
100. GeV	1.001×10^5	2.093	0.362	0.478	0.037	2.970	4.315×10^4
140. GeV	1.401×10^5	2.125	0.531	0.715	0.052	3.423	5.569×10^4
200. GeV	2.001×10^5	2.158	0.796	1.089	0.073	4.117	7.166×10^4
219. GeV	2.191×10^5	2.166	0.880	1.206	0.080	4.333	*Muon critical energy*
300. GeV	3.001×10^5	2.195	1.248	1.716	0.110	5.269	9.309×10^4
400. GeV	4.001×10^5	2.221	1.716	2.365	0.146	6.449	1.102×10^5
800. GeV	8.001×10^5	2.283	3.646	5.030	0.296	11.256	1.566×10^5
1.00 TeV	1.000×10^6	2.304	4.637	6.394	0.372	13.708	1.727×10^5
1.40 TeV	1.400×10^6	2.335	6.625	9.114	0.526	18.601	1.976×10^5
2.00 TeV	2.000×10^6	2.368	9.665	13.265	0.761	26.060	2.248×10^5
3.00 TeV	3.000×10^6	2.406	14.739	20.163	1.165	38.474	2.562×10^5
4.00 TeV	4.000×10^6	2.434	19.881	27.136	1.574	51.026	2.787×10^5
8.00 TeV	8.000×10^6	2.502	40.610	55.166	3.275	101.554	3.332×10^5
10.0 TeV	1.000×10^7	2.524	51.055	69.257	4.149	126.986	3.507×10^5
14.0 TeV	1.400×10^7	2.558	71.891	97.370	5.943	177.763	3.772×10^5
20.0 TeV	2.000×10^7	2.595	103.327	139.721	8.694	254.339	4.053×10^5
30.0 TeV	3.000×10^7	2.637	155.656	210.187	13.453	381.935	4.372×10^5
40.0 TeV	4.000×10^7	2.668	208.172	280.821	18.327	509.989	4.598×10^5
80.0 TeV	8.000×10^7	2.743	418.548	563.544	38.698	1023.535	5.140×10^5
100. TeV	1.000×10^8	2.768	523.913	705.033	49.228	1280.943	5.315×10^5