Muons in lanthanum fluoride (LaF_3)

$\langle Z/A \rangle$	ρ [g/cm^3]	I [eV]	a	$k = m_s$	x_0	x_1	$\overline{C}$	δ_0
0.42879	5.900	336.3	0.18517	3.0000	0.2000	3.0000	4.9860	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	4.958				4.958	1.135×10^0
14.0 MeV	5.616×10^1	3.903				3.903	2.053×10^0
20.0 MeV	6.802×10^1	3.074				3.074	3.805×10^0
30.0 MeV	8.509×10^1	2.405				2.406	7.532×10^0
40.0 MeV	1.003×10^2	2.066				2.066	1.205×10^1
80.0 MeV	1.527×10^2	1.572				1.572	3.493×10^1
100. MeV	1.764×10^2	1.484				1.484	4.805×10^1
140. MeV	2.218×10^2	1.398				1.398	7.594×10^1
200. MeV	2.868×10^2	1.354				1.354	1.197×10^2
257. MeV	3.471×10^2	1.346			0.000	1.346	*Minimum ionization*
300. MeV	3.917×10^2	1.349	0.000		0.000	1.349	1.939×10^2
400. MeV	4.945×10^2	1.365	0.000		0.000	1.366	2.676×10^2
800. MeV	8.995×10^2	1.445	0.001		0.000	1.446	5.520×10^2
1.00 GeV	1.101×10^3	1.477	0.001		0.000	1.479	6.887×10^2
1.40 GeV	1.502×10^3	1.529	0.001	0.000	0.001	1.531	9.543×10^2
2.00 GeV	2.103×10^3	1.585	0.002	0.001	0.001	1.589	1.339×10^3
3.00 GeV	3.104×10^3	1.647	0.004	0.002	0.001	1.655	1.954×10^3
4.00 GeV	4.104×10^3	1.690	0.006	0.004	0.002	1.702	2.550×10^3
8.00 GeV	8.105×10^3	1.787	0.014	0.014	0.003	1.819	4.815×10^3
10.0 GeV	1.011×10^4	1.816	0.019	0.019	0.004	1.859	5.902×10^3
14.0 GeV	1.411×10^4	1.857	0.029	0.032	0.006	1.924	8.016×10^3
20.0 GeV	2.011×10^4	1.898	0.045	0.052	0.008	2.004	1.107×10^4
30.0 GeV	3.011×10^4	1.942	0.074	0.090	0.012	2.118	1.592×10^4
40.0 GeV	4.011×10^4	1.971	0.105	0.132	0.015	2.224	2.053×10^4
80.0 GeV	8.011×10^4	2.036	0.238	0.317	0.030	2.622	3.706×10^4
100. GeV	1.001×10^5	2.057	0.308	0.417	0.037	2.820	4.442×10^4
140. GeV	1.401×10^5	2.087	0.452	0.623	0.052	3.214	5.770×10^4
200. GeV	2.001×10^5	2.118	0.677	0.948	0.074	3.819	7.481×10^4
246. GeV	2.457×10^5	2.136	0.851	1.194	0.091	4.273	*Muon critical energy*
300. GeV	3.001×10^5	2.154	1.063	1.493	0.111	4.822	9.807×10^4
400. GeV	4.001×10^5	2.179	1.461	2.058	0.148	5.847	1.169×10^5
800. GeV	8.001×10^5	2.240	3.108	4.377	0.298	10.024	1.685×10^5
1.00 TeV	1.000×10^6	2.260	3.953	5.564	0.375	12.153	1.866×10^5
1.40 TeV	1.400×10^6	2.291	5.649	7.930	0.531	16.403	2.149×10^5
2.00 TeV	2.000×10^6	2.323	8.244	11.543	0.768	22.880	2.457×10^5
3.00 TeV	3.000×10^6	2.361	12.577	17.547	1.176	33.662	2.815×10^5
4.00 TeV	4.000×10^6	2.388	16.969	23.616	1.589	44.563	3.073×10^5
8.00 TeV	8.000×10^6	2.454	34.679	48.015	3.305	88.455	3.698×10^5
10.0 TeV	1.000×10^7	2.476	43.605	60.281	4.187	110.551	3.900×10^5
14.0 TeV	1.400×10^7	2.510	61.409	84.753	5.999	154.673	4.204×10^5
20.0 TeV	2.000×10^7	2.546	88.275	121.621	8.778	221.221	4.527×10^5
30.0 TeV	3.000×10^7	2.587	133.002	182.964	13.583	332.137	4.893×10^5
40.0 TeV	4.000×10^7	2.617	177.893	244.454	18.505	443.471	5.153×10^5
80.0 TeV	8.000×10^7	2.691	357.737	490.589	39.079	890.098	5.777×10^5
100. TeV	1.000×10^8	2.715	447.815	613.771	49.714	1114.017	5.977×10^5