New NM B-S	0-50 MeV/c	50-100	100-150	150-200	200-250	250-300	300-350	350-400	400-450	450-500	500-550	550-600	600-650	650-700	700-750	750-800	800-850	850-900	200-950	950-1000	1000-1050	1050-1100	1100-1150	1150-1200	1200-1250	1250-1300	1300-1350	1350-1400 1	1400-1450	1450-1500	1500-1550	1550-1600	1600-1650	1650-1700	1700-1750	1750-1800	1800-1850 1	550-1900	1900-1950 1	1950-2000
0-4.5 Deg				0	0.157895	0.325	0.422222	0.490566	0.615385	0.728571	0.895522	0.807692	0.880435	0.864885	0.843373	0.833333	0.858333	0.833333	0.829087	0.814815	0.778846	0.8	0.813725	0.829268	0.84375	0.78022	0.783133	0.898734	0.85	0.825397	0.873016	0.767442	0.779661	0.847826	0.836735	0.809524	0.861111	0.794872	0.944444	0.833333
4.5-9 Deg				0.0625	0.176471	0.235849	0.395594	0.478261	0.581731	0.773279	0.811448	0.817109	0.806366	0.801402	0.814286	0.809211	0.804211	0.755448	0.822709	0.792657	0.804255	0.824945	0.804494	0.814536	0.784504	0.774295	0.813665	0.792994	0.764705	0.790036	0.793651	0.741784	0.728643	0.759657	0.734884	0.770053	0.780749	0.761905	0.791908	0.794521
9-13.5 Deg				0.09375	0.156716	0.223529	0.362963	0.463343	0.5725	0.701245	0.78089	0.798354	0.801724	0.794569	0.782796	0.780287	0.765235	0.773496	0.756598	0.759384	0.766798	0.776285	0.733735	0.717208	0.731677	0.730769	0.706861	0.728298	0.755835	0.75089	0.706249	0.717833	0.654251	0.747423	0.700581	0.688679	0.681967	0.69338	0.745763	0.685039
13.5-15 Deg	0			0.0382166	0.131222	0.260736	0.330233	0.448833	0.566116	0.634994	0.727545	0.736387	0.720152	0.749489	0.762791	0.732403	0.711937	0.704908	0.702804	0.683544	0.703634	0.7085	0.706101	0.683544	0.700457	0.681775	0.68321	0.68171	0.669251	0.644678	0.668863	0.66548	0.643629	0.637168	0.643038	0.62973	0.607973	0.665557	0.621212	0.622711
18-22.5 Deg				0.039604	0.0973451	0.228145	0.318462	0.419903	0.517013	0.582547	0.656707	0.692351	0.687027	0.677215	0.689404	0.661647	0.651855	0.661634	0.65554	0.634515	0.653195	0.635392	0.641326	0.620074	0.60516	0.579566	0.597895	0.612863	0.599419	0.5856	0.590654	0.587156	0.558376	0.554607	0.52568	0.568093	0.52549	0.575342	0.497696	0.557471
22.5-27 Deg				0.0254026	0.0930736	0.197461	0.321879	0.381265	0.447548	0.521715	0.578365	0.637657	0.629588	0.615445	0.637963	0.622396	0.604258	0.581746	0.570899	0.569778	0.571276	0.570789	0.557559	0.528678	0.526867	0.524138	0.529101	0.509404	0.499093	0.539326	0.484043	0.5	0.535354	0.441767	0.435681	0.482587	0.40113	0.495599	0.461538	0.454545
27-31.5 Deg				0.00488818	0.0857143	0.152859	0.25358	0.312166	0.395361	0.465491	0.495522	0.564516	0.564264	0.554788	0.551891	0.55257	0.548276	0.521099	0.517559	0.518553	0.515256	0.490654	0.476651	0.444332	0.474735	0.458456	0.431408	0.465169	0.451791	0.405145	0.433735	0.416667	0.352245	0.333333	0.411765	0.283951	0.402439	0.363636	0.285714	0.398825
31.5-35 Deg	0			0.00754717	0.0815217	0.142292	0.218271	0.283494	0.333753	0.381784	0.435444	0.472969	0.488325	0.492462	0.479326	0.494505	0.47549	0.45854	0.461108	0.451835	0.42583	0.411765	0.437118	0.397764	0.406551	0.405963	0.389205	0.33564	0.381395	0.393333	0.277372	0.293103	0.308642	0.245753	0.34375	0.181818	0.108108	0.25	0.258065	0.137931
36-40.5 Deg				0	0.032538	0.0817963	0.170164	0.233583	0.275212	0.327416	0.366159	0.387514	0.419254	0.425045	0.403834	0.392764	0.396559	0.400812	0.369942	0.368859	0.345339	0.357923	0.325411	0.296117	0.300654	0.38785	0.386279	0.328	0.348624	0.204819	0.232143	0.185047	0.181818	0.214286	0.285714	0.214286	0.333333	0.166667	0.285714	0.181818
40.5-45 Deg				0	0.0139147	0.0678972	0.129657	0.192308	0.224483	0.252462	0.30273	0.319185	0.342679	0.345987	0.330502	0.331052	0.323815	0.305906	0.312284	0.313023	0.294294	0.264706	0.272981	0.214285	0.233918	0.189474	0.197368	0.231884	0.222222	0.157895	0.2	0.0525316	0.428571	0.0588235	0.165667	0.165667	0.25	0	0	- 1
45-49.5 Deg	0			0	0.00251467	0.0392938	0.0940285	0.141328	0.181437	0.212241	0.24064	0.244851	0.261486	0.269272	0.268858	0.255423	0.239971	0.254059	0.219613	0.205285	0.236769	0.215859	0.180723	0.158879	0.159014	0.0588235	0.0833333	0.166667	0.136364	0.25	0.0714286	0.333333	0.2	- 1	0	0	0	0	0	0
49.5-54 Deg				0	0	0.0110121	0.0531873	0.0958814	0.126534	0.148936	0.169353	0.187424	0.203203	0.19403	0.204905	0.197958	0.161453	0.159744	0.142512	0.151292	0.132184	0.133858	0.0869565	0.097561	0.0769231	0.0909091	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54-58.5 Deg				0	0	0.000456204	0.0199623	0.0552583	0.0810965	0.102659	0.119633	0.118058	0.129529	0.135933	0.125182	0.118211	0.109568	0.118853	0.117073	0.108844	0.0517284	0.0851054	0.0344828	0.0909091	0	0.111111	0	0	0.5	0	0	0	0	0	0	0	0	0	0	0
58.5-63 Deg	0			0	0	0	0.000714286	0.0128637	0.0467906	0.0568421	0.0634228	0.0796216	0.0780856	0.0909091	0.0960929	0.0849558	0.0780781	0.103825	0.0458716	0	0.0333333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63-67.5 Deg				0	0	0	0	0	0.00745573	0.0242928	0.0364188	0.0436258	0.0367232	0.039555	0.0363636	0.0426136	0.0162162	0.0357143	0.0227273	0.0416657	0.0714285	0.166667	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
67.5-72 Deg				0	0	0	0	0	0	0.000740466	0.00470367	0.0114213	0.0195072	0.0168567	0.0120482	0	0	0.03125	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72-76.5 Deg	0			0	0	0	0	0	0	0	0	0	0	0.00280899	0.00649351	0.0123457	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.5-81 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
81-85.5 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85.5-90 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90-94.5 Deg	0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
94.5-99 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99-103.5 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
103.5-108 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
108-112.5 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
112.5-117 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
117-121.5 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
121.5-126 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125-130.5 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130.5-135 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135-139.5 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
139.5-144 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
144-148.5 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
148.5-153 Deg				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
153-157.5 Deg				0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
157.5-162 Deg				0	0		0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	- 0	- 0
162-166.5 Dec			1 .		0			0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0		0
166.5-171 Dec				0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0			0	0		0	0	0	0	0	0	0	0	0	- 0
171-175.5 Deg			1	1 0	0			0			1 0				0	0	0		0	0	0	-	0								0	- 0	0	- 0	0	0	-	0	- 0	-
175.5-180 Dec					0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0