Old NM R-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	900-950	950-1000	1000-1050	1050-1100	1100-1150	1150-1200	1200-1250	1250-1300	1300-1350	1350-1400	1400-1450	1450-1500	1500-1550	1550-1600	1600-1650	1650-1700	1700-1750	1750-1800	1800-1850	1850-1900 19	1900-1950	1950-2000
0-4.5 Deg			0 0	0	0.33333	0.5	0.5	0.8	0.857143	0.5	0.666667	- 1	0.857143	0.7	0.777778	0.875	0.909091	0.777778	- 1	0.769231	0.8	0.777778	- 1	0.75	0.75	- 1	0.6	0.833333	- 1	0.833333	0.909091	0.75	0.665567	- 1	0	0.665667	0	0.8	- 1	- 1
4.5-9 Deg			0 0			0.25	0.285714	0.470588	0.465557	0.608696	0.904762	0.9	0.65	0.8	0.74359	0.877551	0.65	0.782609	0.792453	0.810811	0.866667	0.807692	0.815789	0.8	0.74359	0.851111	0.923077	0.825	0.875	0.833333	0.761905	0.85	0.8	0.823529	0.652174	0.923077	0.857143	0.882353	0.533333	0.85
9-13.5 Deg			0 0	0	0.076923	0.181818	0.285714	0.451513	0.625	0.642857	0.765957	0.721519	0.813953	0.734177	0.732558	0.77907	0.744681	0.865979	0.746988	0.76087	0.747253	0.851054	0.776316	0.683544	0.791045	0.686567	0.852069	0.706897	0.660377	0.755556	0.688889	0.604651	0.933333	0.638298	0.714286	0.826087	0.958333	0.842105	0.777778	0.708333
13.5-15 Deg			0 0	0.0714286	0.1	0.290323	0.365854	0.509091	0.621622	0.630952	0.682692	0.773109	0.722222	0.739726	0.70229	0.719178	0.711656	0.753425	0.726115	0.735099	0.70058	0.688889	0.705357	0.688679	0.711538	0.705882	0.670588	0.694444	0.68	0.677965	0.586957	0.653846	0.612245	0.65625	83.0	0.7	0.625	0.76	0.75	0.565217
18-22.5 Deg			0 0	0.0571429	0.068965	0.184211	0.242424	0.505155	0.474227	0.56	0.647482	0.656442	0.609929	0.648936	0.705069	0.695187	0.643216	0.673267	0.651951	0.516505	0.639535	0.641176	0.666657	0.635593	0.59375	0.59375	0.6	0.652174	0.625	0.706333	0.568182	0.634146	0.461538	0.423077	0.625	0.47619	0.47619	0.76	0.611111	0.722222
22.5-27 Deg			0 0	0.0416667	0.0	0.247059	0.280488	0.346154	0.518797	0.465969	0.602679	0.631818	0.658291	0.668224	0.632959	0.659574	0.617647	0.593458	0.514213	0.654054	0.529801	0.594937	0.503817	0.591398	0.653465	0.52	0.578947	0.413793	0.568965	0.377778	0.666667	0.5	0.444444	0.473684	0.458333	0.647059	0.615385	0.45	0.4	0.333333
27-31.5 Deg			0 0	0.0217391	0.061538	0.1375	0.16	0.295296	0.390863	0.466961	0.520492	0.59761	0.522727	0.544061	0.550781	0.516981	0.592437	0.524887	0.513228	0.49359	0.531034	0.475	0.521008	0.465116	0.406593	0.517857	0.490565	0.487179	0.444444	0.347826	0.380952	0.4	0.384615	0.454545	0.1	0.333333	0.375	0.625	0.2	0.25
31.5-35 Deg			0 0	0.0816327			0.244444					0.453925		0.461017	0.456311	0.462838	0.493878	0.474654	0.45	0.416657	0.470588		0.454545	0.376812		0.348837	0.541667	0.238095	0.4	0.255557	0.3125	0.533333		0.4	0.571429	0.222222	0.165557	0	0.665557	0.5
35-40.5 Deg			0 0	0	0.0		0.155172			0.296296		0.377049		0.424749	0.422222	0.376518	0.409892	0.394737	0.407407	0.360825	0.317308	0.397435	0.267857	0.272727		0.380952	0.176471	0.2	0.117647	0.166667	0.333333	0.333333	0.5	0.285714	0.5	0	0	0	0	0
40.5-45 Deg			0 0	0		0.0869565	0.15122					0.306818		0.340557	0.386534	0.316742	0.337423	0.28777	0.29651	0.257576	0.140351	0.318182	0.307692	0.206333	0.357143	0.25	0.375	0.25	0.2	0	0	0	0.5	0	0	0	0	- 1	0	0
45-49.5 Deg			0 0	0		0.0434783	0.0843882			0.159322		0.231003		0.285156	0.27907	0.270115	0.273973	0.259259	0.347222	0.285714	0.28	0.217391	0.111111	0.1	0.0833333	0.158867	0.25	0	0.333333	- 1	0	0	0	0	0	0	0	0	0	0
49.5-54 Deg			0 0			0.0108696	0.0636364			0.133144		0.169381		0.220588	0.220238	0.15942	0.142857	0.122807	0.236354	0.129032	0.0714285	0.1	0.142857	0		0	0	0	0	0	0	0	0	0	0	0	0	0		0
54-58.5 Deg			0 0	0		0	0.023622					0.110701		0.138728	0.186992	0.13253	0.176471	0.131579	0	0.357143	0.1	0	0		0	0.335333	0	0	0	٥	٥	0	0	0	0	0	0	0	0	0
58.5-63 Deg			0 0			0		0.0129032		0.055556		0.0979592		0.0787402	0.0487805	0.0754717	0.15625	0.0416867	0	0.125		0	0			0	0			0	0	0	0	0	0	0	0			
63-67.5 Deg			0 0	0		0	0	0	0.0056338		0.0125523	0.0380952		0.0869565	0	0.0689555	0	0	0	0		0	0	0	0	0	0	0	0	٥	٥	0	0	0	0	0	0	0	0	0
67.5-72 Deg			0 0	0		0		0	0	0.00338963	0	0.0212766	0.010989	0.0222222	0	0	0.111111	0	0	0		0	0	0	0	0	0	0	0	٥	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	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		
81-85.5 Deg		_	0 0	0		9		0	0		9		0	0	0		0	0	0	0		0	0		9		۰	0				0			- 0	- 0	- 0	_ •	- 0	- 0
85.5-90 Deg			0 0	0		9		0	0		0		0	0	0			0	0	0							0	0	0			0					0			
90-94.5 Deg			0 0			9			0		9		0	0	0	0	0	0	0	0		0	0		9	0						0							- 0	
94.5-99 Deg		_	0 0		_	9	- 0				0		0					0						- 0		0						0	. 0					_	- 0	- 0
99-103.5 Deg			0 0			9					9		9		0				0						0										- 0	- 0	- 0	_ •	- 0	- 0
103.5-105 Deg			0 0			9					0		0	0		0	0	0	0	0		0	0	- 0		0	٥	0	0	٥	٥	0	0		9	9	0	- 0	- 0	- 0
108-112.5 Deg		_	0 0		_	9 9	- 0				9	- 0	0	- 0	- 0	- 9	- 9	0			- 0				9				- 0	- 0	- 0	- 0	- 0	- 0	- 9	- 9	- 0	_		- 9
112.5-117 Deg	-		0 0		_	9	- 0					- 0									- 0								- 0			- 0	- 0	- 0	- 0	- 0	- 0		-	- 0
117-121.5 Deg 121.5-126 Deg	-		0 0		_	1 9	-				0	- 0						0						-	9						- 0	9		- 0	- 0	9				- 0
125-130.5 Deg	-	_	0 0		_					- 0	9	- 0			- 0	- 0	- 0	- 0	- 0		- 0							- 0	- 0			- 0	- 0	- 0	- 0	- 0	- 0	_	-	
130.5-135 Deg	- 0	_	0 0			1 0	- 0				,	- 0	0	0	0	0	0	0	0		- 0	0		-	9			0				0	0	0	0	0	0	-		- 0
135-139.5 Deg		_	0 0		_	1 9	-				0	- 0				- 0					- 0			-	9						- 0	9		- 0	- 0	- 0		_		
133-139.5 Deg	-	_	0 0			9	- 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			1 9	- 0				,	- 0	0	0	0	0	0	0	0	0		0		-	9			0	- 0			,	0	0	0	0	0	-	- 0	- 0
148.5-153 Deg	-		0 0			1 0					0		0				0	0			- 0	0					0	0	0			0	0	0	0	0	0	- 0	-	- 0
153-157.5 Deg	-	_	0 0			9	- 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			9	0		0	0	ů	- 0	,	0	0				0			0		-		0	0	0			,	0	0	0	0	0	,		- 0	- 0
162-166.5 Deg	1 3	_	0 0	1 0		1 0				- 0								0			- 0	0					0		0			0	0	0	0	0	0	- 0	- 0	- 0
165.5-171 Deg	-	_	0	1 0		1 0	- 0			- 0	- 3	- 0	0	0	0	- 0			0		- 0	- 0			-							0	0	0	0	0	0	-		- 0
171-175.5 Deg	-	_	0 0			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
175.5-180 Deg	1 3	_	0 0	1 0		1 0				- 0					0			0			- 0			-	-							0	0	0	0	0	0	- 0		- 0
17 9.3-160 Deg			<u> </u>	1		1 0		1	1 0		- 0		- 0		0		0	0							9							- 0	0	- 0	- 0	- 0	- 0		_ 0	- 0