

THE COUPLING COEFFICIENTS W(E) OF THE SCINTILLATION MUON TELESCOPES
 SMT0, SMT7, SMT20 AND SMT40 FOR ZENITH ANGLES 0°, 50°, 60° AND 67°.

0°

E (GeV)	SMT-0	SMT-7	SMT-20	SMT-40
3.00	.000065098	.000000000	.000000000	.000000000
3.20	.000100481	.000000000	.000000000	.000000000
3.50	.000151703	.000000000	.000000000	.000000000
3.70	.000230460	.000000000	.000000000	.000000000
4.00	.000334502	.000000000	.000000000	.000000000
4.30	.000503788	.000000000	.000000000	.000000000
4.60	.000732577	.000000221	.000000000	.000000000
5.00	.001082919	.000001109	.000000000	.000000000
5.30	.001608431	.000003439	.000000000	.000000000
5.70	.002376246	.000010873	.000000000	.000000000
6.20	.003401840	.000040165	.000000000	.000000000
6.60	.004684269	.000138914	.000000000	.000000000
7.10	.006191855	.000393887	.000000000	.000000000
7.60	.007842354	.000876204	.000000000	.000000000
8.20	.009555843	.001619154	.000000000	.000000000
8.80	.011253200	.002627061	.000000834	.000000000
9.50	.012837950	.003852660	.000008063	.000000000
10.20	.014265540	.005229823	.000054773	.000000000
10.90	.015500020	.006680104	.000190455	.000000000
11.80	.016533460	.008119623	.000457370	.000000000
12.60	.017299970	.009489574	.000882488	.000000000
13.60	.017853810	.010735140	.001463585	.000000000
14.60	.018145810	.011807630	.002183145	.000000000
15.70	.018248260	.012701580	.003014197	.000006081
16.90	.018173420	.013405590	.003905304	.000030405
18.10	.017939620	.013900000	.004818933	.000100945
19.50	.017561600	.014228760	.005727557	.000240808
20.90	.017062460	.014377660	.006566394	.000465807
22.50	.016446930	.014351920	.007337946	.000784453
24.20	.015761430	.014203680	.008013575	.001189450
26.00	.015017880	.013923630	.008571317	.001683230
27.90	.014231680	.013549500	.009013396	.002236604
30.00	.013416350	.013079720	.009332860	.002817951
32.20	.012544500	.012527610	.009529988	.003434568
34.60	.011760190	.011953750	.009627856	.004032942
37.20	.010940790	.011328750	.009617014	.004598478
40.00	.010132720	.010670680	.009504130	.005097123
42.90	.009344853	.010000410	.009311729	.005556849
46.10	.008580380	.009323142	.009041755	.005918062
49.60	.007852016	.008649762	.008709779	.006181979
53.30	.007165211	.007993025	.008342215	.006389951
57.20	.006508049	.007349934	.007925716	.006492112
61.50	.005895787	.006730589	.007483637	.006527382
66.10	.005318546	.006135763	.007016813	.006456842
71.00	.004785260	.005576000	.006552770	.006363194
76.30	.004289536	.005045084	.006077605	.006179547
82.00	.003834209	.004547899	.005608280	.005954549
88.10	.003416589	.004086219	.005146739	.005679686
94.70	.003034353	.003656272	.004702436	.005385364
101.80	.002687935	.003262051	.004277040	.005069150
109.40	.002374139	.002900674	.003872218	.004739558
117.50	.002091585	.002571584	.003491864	.004406318
126.30	.001837148	.002272563	.003135699	.004069428
135.70	.001609884	.002002278	.002805391	.003738620
145.80	.001407177	.001759621	.002500663	.003417541
156.70	.001226485	.001541597	.002220958	.003107409
168.40	.001067008	.001347427	.001966276	.002813087
180.90	.000925839	.001174339	.001734671	.002532143
194.40	.000801236	.001020889	.001525588	.002271874
208.90	.000692327	.000885635	.001338191	.002031065

224.50	.000596713	.000766249	.001169979	.001806067
241.20	.000513087	.000661397	.001019561	.001600528
259.20	.000440360	.000569416	.000886381	.001414448
278.60	.000377150	.000489529	.000768771	.001242963
299.30	.000322441	.000419850	.000665063	.001092154
321.60	.000275216	.000359269	.000573867	.000955938
345.60	.000234384	.000306899	.000493793	.000833101
371.40	.000199292	.000261407	.000424006	.000723643
399.10	.000169140	.000222352	.000363116	.000628778
428.90	.000143347	.000188954	.000310845	.000544860
460.80	.000121188	.000159995	.000265247	.000469455

50°

E (GeV)	SMT-0	SMT-7	SMT-20	SMT-40
3.00	.000020202	.000000000	.000000000	.000000000
3.22	.000033853	.000000000	.000000000	.000000000
3.46	.000052417	.000000000	.000000000	.000000000
3.72	.000080264	.000000000	.000000000	.000000000
4.00	.000121762	.000000000	.000000000	.000000000
4.30	.000185100	.000000000	.000000000	.000000000
4.62	.000277377	.000000000	.000000000	.000000000
4.96	.000421526	.000000000	.000000000	.000000000
5.33	.000645939	.000000864	.000000000	.000000000
5.73	.001005220	.000002594	.000000000	.000000000
6.16	.001520661	.000010379	.000000000	.000000000
6.62	.002214650	.000037193	.000000000	.000000000
7.11	.003137967	.000124555	.000000000	.000000000
7.64	.004255667	.000315712	.000000000	.000000000
8.21	.005518607	.000659968	.000000000	.000000000
8.82	.006878739	.001193652	.000000000	.000000000
9.48	.008258527	.001921953	.000002283	.000000000
10.19	.009607738	.002829301	.000013698	.000000000
10.95	.010880510	.003879369	.000057078	.000000000
11.76	.012046260	.005014203	.000162103	.000000000
12.64	.013037280	.006187096	.000358454	.000000000
13.58	.013873230	.007341824	.000666680	.000000000
14.60	.014497330	.008422166	.001091347	.000000000
15.69	.014955990	.009409091	.001634737	.000000000
16.86	.015248110	.010271460	.002274020	.000011368
18.11	.015379700	.010979000	.002984080	.000034104
19.46	.015363320	.011555070	.003744370	.000090946
20.91	.015207160	.011970250	.004504660	.000204629
22.47	.014916670	.012229740	.005255817	.000386522
24.15	.014532820	.012363810	.005963594	.000636626
25.95	.014062700	.012359490	.006609726	.000977675
27.89	.013523780	.012247910	.007169099	.001398304
29.97	.012926980	.012025610	.007637145	.001864405
32.20	.012260840	.011706440	.008007015	.002398716
34.60	.011629100	.011335370	.008287843	.002955764
37.18	.010949310	.010895100	.008461363	.003512811
39.95	.010257500	.010398610	.008532140	.004035754
42.93	.009564604	.009869253	.008520725	.004547329
46.14	.008874436	.009311350	.008417983	.004990693
49.58	.008202287	.008736148	.008235331	.005343111
53.27	.007557986	.008160946	.008009299	.005661425
57.25	.006927881	.007580555	.007714772	.005866054
61.51	.006332174	.007009678	.007379149	.006025211
66.10	.005759947	.006448315	.007000146	.006047947
71.03	.005225395	.005912902	.006616576	.006059316
76.33	.004720328	.005394788	.006201042	.005957000

82.02	.004250753	.004901758	.005780942	.005820581
88.14	.003814484	.004436406	.005353992	.005604583
94.71	.003410976	.003998734	.004936176	.005365848
101.77	.003041322	.003592201	.004525208	.005104376
109.36	.002702791	.003215076	.004130223	.004808800
117.51	.002395928	.002868224	.003753503	.004513224
126.28	.002116367	.002549917	.003392764	.004194911
135.69	.001864653	.002259289	.003057141	.003876598
145.81	.001638601	.001996340	.002742066	.003569653
156.69	.001435482	.001758474	.002449823	.003262708
168.37	.001255296	.001544828	.002182694	.002978500
180.92	.001094221	.001352806	.001936113	.002694292
194.42	.000951163	.001181542	.001710081	.002432821
208.91	.000825579	.001029309	.001509164	.002182718
224.49	.000714738	.000894374	.001324228	.001955351
241.23	.000617000	.000775008	.001159842	.001739353
259.22	.000531821	.000670348	.001013720	.001546092
278.55	.000457017	.000578661	.000881296	.001364199
299.32	.000392041	.000497355	.000767139	.001205042
321.64	.000335801	.000427292	.000664397	.001057254
345.63	.000287205	.000365880	.000573071	.000920834
371.40	.000245162	.000313117	.000493160	.000807150
399.10	.000208579	.000267274	.000424666	.000704835
428.86	.000177455	.000227485	.000365304	.000613889
460.84	.000150155	.000193752	.000312791	.000522942

60°

E (GeV)	SMT-0	SMT-7	SMT-20	SMT-40
3.00	.000000000	.000000000	.000000000	.000000000
3.22	.000000000	.000000000	.000000000	.000000000
3.46	.000000000	.000000000	.000000000	.000000000
3.72	.000000000	.000000000	.000000000	.000000000
4.00	.000001235	.000000000	.000000000	.000000000
4.30	.000002289	.000000000	.000000000	.000000000
4.62	.000003906	.000000000	.000000000	.000000000
4.96	.000007721	.000000000	.000000000	.000000000
5.33	.000014870	.000000000	.000000000	.000000000
5.73	.000028678	.000000000	.000000000	.000000000
6.16	.000052932	.000000000	.000000000	.000000000
6.62	.000103603	.000000000	.000000000	.000000000
7.11	.000218090	.000000000	.000000000	.000000000
7.64	.000439586	.000000000	.000000000	.000000000
8.21	.000792011	.000000000	.000000000	.000000000
8.82	.001296876	.000001319	.000000000	.000000000
9.48	.001949438	.000009965	.000000000	.000000000
10.19	.002736462	.000045140	.000000000	.000000000
10.95	.003630651	.000125522	.000000000	.000000000
11.76	.004599348	.000277575	.000000000	.000000000
12.64	.005589964	.000524463	.000000000	.000000000
13.58	.006578309	.000878461	.000000000	.000000000
14.60	.007503165	.001340295	.000003972	.000000000
15.69	.008367531	.001902705	.000020744	.000000000
16.86	.009140675	.002541802	.000062012	.000000000
18.11	.009806055	.003235147	.000147198	.000000000
19.46	.010361550	.003965845	.000289982	.000000000
20.91	.010784880	.004682618	.000504048	.000000000
22.47	.011080010	.005383354	.000801313	.000000000
24.15	.011263730	.006038290	.001172950	.000000000
25.95	.011333380	.006631718	.001624033	.000012802
27.89	.011302590	.007145688	.002130730	.000046941

29.97	.011173430	.007572743	.002668543	.000106684
32.20	.010955190	.007907932	.003245860	.000241106
34.60	.010688520	.008162277	.003809052	.000450207
37.18	.010346950	.008316309	.004350176	.000736120
39.95	.009947920	.008377157	.004839658	.001075376
42.93	.009508661	.008361846	.005295597	.001506380
46.14	.009028924	.008260015	.005660172	.001965122
49.58	.008529727	.008086119	.005938678	.002413195
53.27	.008026134	.007866156	.006160910	.002899675
57.25	.007502993	.007583500	.006288025	.003352016
61.51	.006986710	.007263226	.006349376	.003793688
66.10	.006466784	.006898602	.006302149	.004139345
71.03	.005967306	.006527578	.006236164	.004412456
76.33	.005478557	.006128703	.006080801	.004685568
82.02	.005007948	.005720985	.005879314	.004920273
88.14	.004557752	.005306866	.005625524	.005005620
94.71	.004131192	.004899478	.005349224	.004999219
101.77	.003731330	.004500207	.005047325	.004928807
109.36	.003356740	.004113938	.004733067	.004805054
117.51	.003010528	.003744035	.004412630	.004653562
126.28	.002688925	.003391423	.004085572	.004467932
135.69	.002394502	.003060062	.003760501	.004222558
145.81	.002125696	.002750083	.003447126	.003979318
156.69	.001880426	.002461552	.003140151	.003723277
168.37	.001658830	.002195526	.002851713	.003467235
180.92	.001458926	.001951080	.002573207	.003223995
194.42	.001279580	.001727686	.002313238	.002967953
208.91	.001119428	.001526137	.002070482	.002696975
224.49	.000976163	.001342605	.001846485	.002464404
241.23	.000849504	.001177353	.001639923	.002231832
259.22	.000736898	.001030316	.001452118	.001999261
278.55	.000638063	.000898457	.001281528	.001790160
299.32	.000551111	.000780788	.001123957	.001610931
321.64	.000475096	.000677835	.000986910	.001431701
345.63	.000408537	.000587158	.000861560	.001273809
371.40	.000350717	.000506446	.000752100	.001118050
399.10	.000300373	.000437151	.000651025	.000990028
428.86	.000256533	.000375908	.000564957	.000857740
460.84	.000218598	.000321726	.000489041	.000742521

67°

E (GeV)	SMT-0	SMT-7	SMT-20	SMT-40
3.00	.000000000	.000000000	.000000000	.000000000
3.22	.000000000	.000000000	.000000000	.000000000
3.46	.000000000	.000000000	.000000000	.000000000
3.72	.000000000	.000000000	.000000000	.000000000
4.00	.000000000	.000000000	.000000000	.000000000
4.30	.000000000	.000000000	.000000000	.000000000
4.62	.000000000	.000000000	.000000000	.000000000
4.96	.000000000	.000000000	.000000000	.000000000
5.33	.000000000	.000000000	.000000000	.000000000
5.73	.000001980	.000000000	.000000000	.000000000
6.16	.000004789	.000000000	.000000000	.000000000
6.62	.000013828	.000000000	.000000000	.000000000
7.11	.000041737	.000000000	.000000000	.000000000
7.64	.000106629	.000000000	.000000000	.000000000
8.21	.000232994	.000000000	.000000000	.000000000
8.82	.000449675	.000001319	.000000000	.000000000
9.48	.000772805	.000009965	.000000000	.000000000
10.19	.001215387	.000045140	.000000000	.000000000

10.95	.001776697	.000125522	.000000000	.000000000
11.76	.002447231	.000277575	.000000000	.000000000
12.64	.003197745	.000524463	.000000000	.000000000
13.58	.004006671	.000878461	.000000000	.000000000
14.60	.004827660	.001340295	.000003972	.000000000
15.69	.005652791	.001902705	.000020744	.000000000
16.86	.006445655	.002541802	.000062012	.000000000
18.11	.007187383	.003235147	.000147198	.000000000
19.46	.007864146	.003965845	.000289982	.000000000
20.91	.008443750	.004682618	.000504048	.000000000
22.47	.008927888	.005383354	.000801313	.000000000
24.15	.009316129	.006038290	.001172950	.000000000
25.95	.009601806	.006631718	.001624033	.000012802
27.89	.009789535	.007145688	.002130730	.000046941
29.97	.009878231	.007572743	.002668543	.000106684
32.20	.009876142	.007907932	.003245860	.000241106
34.60	.009805524	.008162277	.003809052	.000450207
37.18	.009650999	.008316309	.004350176	.000736120
39.95	.009423082	.008377157	.004839658	.001075376
42.93	.009139528	.008361846	.005295597	.001506380
46.14	.008796951	.008260015	.005660172	.001965122
49.58	.008416418	.008086119	.005938678	.002413195
53.27	.008016222	.007866156	.006160910	.002899675
57.25	.007578107	.007583500	.006288025	.003352016
61.51	.007131997	.007263226	.006349376	.003793688
66.10	.006665973	.006898602	.006302149	.004139345
71.03	.006209960	.006527578	.006236164	.004412456
76.33	.005750274	.006128703	.006080801	.004685568
82.02	.005299410	.005720985	.005879314	.004920273
88.14	.004860142	.005306866	.005625524	.005005620
94.71	.004437800	.004899478	.005349224	.004999219
101.77	.004035876	.004500207	.005047325	.004928807
109.36	.003654623	.004113938	.004733067	.004805054
117.51	.003297785	.003744035	.004412630	.004653562
126.28	.002962915	.003391423	.004085572	.004467932
135.69	.002653504	.003060062	.003760501	.004222558
145.81	.002368186	.002750083	.003447126	.003979318
156.69	.002105302	.002461552	.003140151	.003723277
168.37	.001866510	.002195526	.002851713	.003467235
180.92	.001648785	.001951080	.002573207	.003223995
194.42	.001452450	.001727686	.002313238	.002967953
208.91	.001276030	.001526137	.002070482	.002696975
224.49	.001117220	.001342605	.001846485	.002464404
241.23	.000975946	.001177353	.001639923	.002231832
259.22	.000849510	.001030316	.001452118	.001999261
278.55	.000737910	.000898457	.001281528	.001790160
299.32	.000639527	.000780788	.001123957	.001610931
321.64	.000553280	.000677835	.000986910	.001431701
345.63	.000477007	.000587158	.000861560	.001273809
371.40	.000410458	.000506446	.000752100	.001118050
399.10	.000353056	.000437151	.000651025	.000990028
428.86	.000302136	.000375908	.000564957	.000857740
460.84	.000258238	.000321726	.000489041	.000742521