

THE COUPLING COEFFICIENTS W(E) OF THE MUON TELESCOPES
 MT0, MT7, MT20 AND MT40 FOR ZENITH ANGLES 0°, 30° AND 60°.

0 m w.e.

E(GeV)	Vertical	30°	60°
3.000	.002890367	.001838371	.000000000
3.224	.004521542	.002903938	.000000000
3.464	.006834189	.004454186	.000000000
3.722	.010412350	.006771454	.000000000
4.000	.015223620	.009974331	.000009668
4.298	.022974280	.015096440	.000017849
4.619	.033582120	.022185550	.000030492
4.963	.049888660	.033189850	.000060240
5.333	.074570060	.050109030	.000116017
5.731	.111377400	.075992790	.000223713
6.158	.161387000	.111872900	.000412943
6.618	.225037100	.158386300	.000808162
7.111	.302027600	.215906700	.001701271
7.641	.388333800	.281490600	.003429089
8.211	.479877900	.352070600	.006178260
8.824	.572558300	.424504100	.010116610
9.481	.661061700	.494588200	.015207030
10.189	.742692300	.560070600	.021346430
10.948	.815126500	.618956900	.028321740
11.765	.877501500	.670364800	.035878280
12.642	.925970300	.711192800	.043605830
13.585	.963075800	.743227400	.051315640
14.598	.985820000	.764012600	.058530200
15.686	.997967100	.776392300	.065272860
16.856	1.000004000	.780683600	.071303940
18.113	.992773500	.777476100	.076494400
19.464	.977112300	.767446300	.080827640
20.915	.954111700	.751377700	.084130000
22.475	.924049100	.729494600	.086432170
24.151	.889533300	.703866400	.087865320
25.951	.851176800	.674958800	.088408630
27.887	.809908200	.643533500	.088168490
29.966	.766459700	.610161300	.087160960
32.201	.719542500	.573934200	.085458520
34.602	.676769300	.540651100	.083378260
37.182	.631760400	.505501200	.080713800
39.955	.587004100	.470399800	.077601100
42.934	.543071400	.435824300	.074174550
46.136	.500144900	.401923300	.070432230
49.576	.459010900	.369344900	.066538120
53.273	.420041900	.338411500	.062609750
57.246	.382541000	.308562200	.058528830
61.515	.347448800	.280571300	.054501460
66.102	.314197800	.253988800	.050445640
71.031	.283381300	.229315900	.046549340
76.328	.254607300	.206231400	.042736750

82.019	.228077700	.184912300	.039065690
88.136	.203665500	.165265600	.035553780
94.708	.181248800	.147200600	.032226310
101.770	.160869400	.130753800	.029107070
109.359	.142358600	.115797900	.026185020
117.514	.125642200	.102275100	.023484320
126.277	.110549100	.090052810	.020975590
135.694	.097037810	.079100200	.018678870
145.812	.084953900	.069294760	.016582000
156.686	.074160650	.060527260	.014668700
168.370	.064612370	.052765470	.012940100
180.925	.056144390	.045876350	.011380690
194.416	.048658430	.039781400	.009981657
208.914	.042103100	.034440460	.008732338
224.493	.036332410	.029734390	.007614771
241.233	.031283340	.025615470	.006626723
259.222	.026879310	.022018970	.005748341
278.552	.023049720	.018890600	.004977393
299.324	.019726760	.016174310	.004299085
321.644	.016855200	.013824990	.003706125
345.629	.014370100	.011791690	.003186906
371.403	.012231300	.010040690	.002735818
399.098	.010391190	.008533528	.002343126
428.859	.008813657	.007240470	.002001152
460.839	.007459916	.006130358	.001705223

7 m w.e.

E(GeV)	Vertical	30°	60°
3.000	.000000000	.000000000	.000000000
3.224	.000000000	.000000000	.000000000
3.464	.000000000	.000000000	.000000000
3.722	.000000000	.000000000	.000000000
4.000	.000000000	.000000000	.000000000
4.298	.000000000	.000000000	.000000000
4.619	.000006613	.000002806	.000000000
4.963	.000032525	.000018356	.000000000
5.333	.000099258	.000054949	.000000000
5.731	.000315146	.000177093	.000000000
6.158	.001173295	.000670215	.000000000
6.618	.004108124	.002426682	.000000000
7.111	.011950570	.007466340	.000000785
7.641	.027241960	.017769580	.000003924
8.211	.051547700	.034775580	.000029823
8.824	.085494300	.059231840	.000148143
9.481	.127857700	.090451830	.000474687
10.189	.176640400	.127097300	.001237975
10.948	.229199800	.167228400	.002605855
11.765	.282529000	.208535000	.004686852
12.642	.334392000	.249234700	.007503054
13.585	.382592400	.287536700	.010981870
14.598	.425112600	.321767200	.014981550
15.686	.461555100	.351527100	.019355800
16.856	.491237100	.376167100	.023872920
18.113	.513269600	.394921400	.028361250
19.464	.529135000	.408877000	.032734100
20.915	.538109800	.417390800	.036702500
22.475	.540394200	.420619300	.040284850
24.151	.537810600	.419928600	.043390170
25.951	.529934000	.414957700	.045917760
27.887	.518206800	.406845900	.047893420
29.966	.502522100	.395488300	.049274630
32.201	.483431600	.381345600	.050080950
34.602	.463134600	.366085700	.050428780
37.182	.440622800	.348977700	.050253590
39.955	.416543800	.330511900	.049592250
42.934	.391750800	.311379700	.048563330
46.136	.366435900	.291731200	.047152200
49.576	.341038900	.271926100	.045438600
53.273	.316112000	.252418700	.043546490
57.246	.291516400	.233096200	.041416430
61.515	.267688300	.214319600	.039158670
66.102	.244667200	.196122600	.036769550
71.031	.222912700	.178895000	.034394240
76.328	.202171300	.162425500	.031976400
82.019	.182668200	.146908000	.029561490
88.136	.164473700	.132402000	.027184760
94.708	.147482000	.118835300	.024886830

101.770	.131840400	.106325900	.022682430
109.359	.117458400	.094806120	.020579950
117.514	.104324900	.084272530	.018603230
126.277	.092354960	.074660360	.016740070
135.694	.081508710	.065939980	.015009500
145.812	.071747750	.058083060	.013411510
156.686	.062958160	.051002170	.011935590
168.370	.055108740	.044671180	.010590770
180.925	.048095730	.039009510	.009365667
194.416	.041871860	.033981490	.008256149
208.914	.036372430	.029535170	.007256615
224.493	.031508910	.025599040	.006359543
241.233	.027229950	.022134280	.005554419
259.222	.023471830	.019087780	.004840457
278.552	.020201380	.016436360	.004206884
299.324	.017345780	.014119500	.003643100
321.644	.014857070	.012098030	.003151658
345.629	.012701210	.010345920	.002719317
371.403	.010830260	.008824257	.002341196
399.098	.009219609	.007514572	.002011575
428.859	.007843633	.006395645	.001725487
460.839	.006648057	.005422374	.001474686

20 m w.e.

E(GeV)	Vertical	30°	60°
3.000	.000000000	.000000000	.000000000
3.224	.000000000	.000000000	.000000000
3.464	.000000000	.000000000	.000000000
3.722	.000000000	.000000000	.000000000
4.000	.000000000	.000000000	.000000000
4.298	.000000000	.000000000	.000000000
4.619	.000000000	.000000000	.000000000
4.963	.000000000	.000000000	.000000000
5.333	.000000000	.000000000	.000000000
5.731	.000000000	.000000000	.000000000
6.158	.000000000	.000000000	.000000000
6.618	.000000000	.000000000	.000000000
7.111	.000000000	.000000000	.000000000
7.641	.000000000	.000000000	.000000000
8.211	.000000000	.000000000	.000000000
8.824	.000008793	.000003398	.000000000
9.481	.000090819	.000043989	.000000000
10.189	.000651540	.000362566	.000000000
10.948	.002343493	.001421285	.000000000
11.765	.005795006	.003710354	.000000000
12.642	.011464220	.007625985	.000004068
13.585	.019436990	.013301140	.000022779
14.598	.029565850	.020682270	.000084775
15.686	.041529040	.029565900	.000231122
16.856	.054643940	.039466820	.000503813
18.113	.068363030	.049972720	.000945740
19.464	.082278570	.060763490	.001568508
20.915	.095390900	.071058280	.002368167
22.475	.107700300	.080837440	.003334149
24.151	.118698100	.089673150	.004413902
25.951	.128068500	.097324360	.005609939
27.887	.135723600	.103666700	.006824446
29.966	.141537700	.108601000	.008021156
32.201	.145496400	.112102100	.009203469
34.602	.147908400	.114388000	.010290550
37.182	.148572200	.115283700	.011243840
39.955	.147609000	.114888700	.012050820
42.934	.145345100	.113445900	.012731320
46.136	.141779200	.110943600	.013208640
49.576	.137147200	.107565600	.013501730
53.273	.131895200	.103675300	.013675550
57.246	.125774000	.099058360	.013659290
61.515	.119187300	.094048050	.013522890
66.102	.112112600	.088614030	.013207840
71.031	.105038100	.083161390	.012854930
76.328	.097709570	.077474060	.012373590
82.019	.090415240	.071790950	.011810680
88.136	.083188180	.066137310	.011176910
94.708	.076196720	.060655180	.010516750

101.770	.069466670	.055361620	.009830185
109.359	.063032540	.050287940	.009134511
117.514	.056965100	.045494670	.008442059
126.277	.051255780	.040974120	.007753643
135.694	.045946040	.036764390	.007086586
145.812	.041028280	.032856860	.006446631
156.686	.036505710	.029259700	.005835428
168.370	.032374500	.025968810	.005265339
180.925	.028603440	.022959270	.004724832
194.416	.025194940	.020238330	.004224626
208.914	.022132610	.017790380	.003761411
224.493	.019377390	.015585940	.003336870
241.233	.016908360	.013607380	.002948506
259.222	.014717950	.011852060	.002598815
278.552	.012782390	.010298870	.002284489
299.324	.011069160	.008923099	.001998947
321.644	.009563840	.007713220	.001747157
345.629	.008237883	.006646032	.001519214
371.403	.007080645	.005714653	.001320072
399.098	.006069880	.004901262	.001142320
428.859	.005197272	.004197807	.000988431
460.839	.004440282	.003587346	.000851825

40 m w.e.

E(GeV)	Vertical	30°	60°
3.000	.000000000	.000000000	.000000000
3.223	.000000000	.000000000	.000000000
3.464	.000000000	.000000000	.000000000
3.722	.000000000	.000000000	.000000000
4.000	.000000000	.000000000	.000000000
4.298	.000000000	.000000000	.000000000
4.618	.000000000	.000000000	.000000000
4.963	.000000000	.000000000	.000000000
5.333	.000000000	.000000000	.000000000
5.731	.000000000	.000000000	.000000000
6.158	.000000000	.000000000	.000000000
6.617	.000000000	.000000000	.000000000
7.111	.000000000	.000000000	.000000000
7.641	.000000000	.000000000	.000000000
8.211	.000000000	.000000000	.000000000
8.823	.000000000	.000000000	.000000000
9.481	.000000000	.000000000	.000000000
10.188	.000000000	.000000000	.000000000
10.948	.000000000	.000000000	.000000000
11.764	.000000000	.000000000	.000000000
12.641	.000000000	.000000000	.000000000
13.584	.000000000	.000000000	.000000000
14.597	.000000000	.000000000	.000000000
15.686	.000014003	.000005926	.000000000
16.855	.000086143	.000047652	.000000000
18.112	.000291968	.000174770	.000000000
19.463	.000714331	.000452214	.000000000
20.914	.001405449	.000919610	.000000000
22.474	.002419405	.001629484	.000001686
24.150	.003731134	.002568345	.000006746
25.951	.005367958	.003762398	.000020988
27.886	.007232671	.005144348	.000049380
29.966	.009229678	.006645309	.000091922
32.200	.011388600	.008288751	.000160179
34.601	.013506870	.009916800	.000249936
37.182	.015550330	.011508340	.000362036
39.954	.017378160	.012943560	.000484016
42.934	.019097510	.014310170	.000623319
46.135	.020484740	.015428750	.000760883
49.576	.021528480	.016284600	.000889263
53.273	.022379670	.016996300	.001020871
57.245	.022852640	.017415060	.001133362
61.514	.023088560	.017652760	.001238356
66.101	.022923870	.017569770	.001297715
71.030	.022685980	.017434130	.001359671
76.327	.022105630	.017023860	.001410664
82.019	.021366370	.016487970	.001426878
88.135	.020438700	.015799700	.001420815
94.707	.019429330	.015043180	.001397429

101.770	.018332960	.014215160	.001357510
109.359	.017181910	.013341980	.001306025
117.514	.016005440	.012444840	.001252063
126.277	.014810500	.011529090	.001183202
135.693	.013631380	.010623230	.001111917
145.812	.012483400	.009739196	.001041475
156.685	.011369970	.008878620	.000966067
168.369	.010309070	.008057751	.000891502
180.924	.009293824	.007271285	.000821061
194.416	.008350142	.006537796	.000747339
208.914	.007473848	.005856990	.000678638
224.492	.006655401	.005218644	.000615693
241.233	.005907140	.004635902	.000553591
259.221	.005225378	.004103463	.000493175
278.552	.004597655	.003612684	.000441850
299.323	.004043237	.003179009	.000393001
321.644	.003539868	.002783566	.000344995
345.629	.003089193	.002431476	.000306923
371.402	.002689567	.002117617	.000269694
399.098	.002335759	.001839782	.000234098
428.858	.002025011	.001596061	.000207645
460.838	.001747448	.001378243	.000177859