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16. Abstract (Limit: 200 words) Three appendices are presented. Appendix A contains static and seismic active and passive earth pressure tables with notations. Appendix B consists of charts for application of the earth pressure tables and other tables. A computer program for calculating the distribution of lateral earth pressure by the modified Dubrova method is presented in Appendix C.			13. Type of Report & Period Covered	
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STATIC AND SEISMIC LATERAL
PRESSURES ON EARTH
RETAINING STRUCTURES - APPENDICES

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APPENDIX A
 STATIC AND SEISMIC
 ACTIVE AND PASSIVE EARTH PRESSURE TABLES

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Notations

PHI = Angle of internal friction, ϕ

XK = Seismic coefficient, k ; seismic acceleration kg is assumed
 to act horizontally

DELTA = Angle of soil-wall interface friction, δ

BETA = Angle of backfill slope, β

ALPHA = Angle of wall repose, α

K_A = Coefficient of static and seismic active earth pressure
 for the case of no surcharge and zero cohesion; it is
 equal to N_{AY}

K_P = Coefficient of static and seismic passive earth pressure
 for the case of no surcharge and zero cohesion; it is
 equal to N_{pY}

COEFFICIENTS OF ACTIVE EARTH PRESSURE

* PHI= 20.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.77	.81	.86	.93	1.01	1.12	1.48
	75.00	.60	.63	.66	.71	.76	.84	1.09
	90.00	.49	.51	.54	.57	.61	.67	.88
	105.00	.41	.43	.44	.47	.50	.56	.74
	120.00	.34	.35	.37	.39	.41	.46	.63
.3333	60.00	.75	.80	.85	.92	1.01	1.15	1.60
	75.00	.57	.60	.64	.69	.75	.84	1.13
	90.00	.46	.48	.51	.54	.59	.65	.88
	105.00	.38	.39	.41	.44	.47	.53	.72
	120.00	.31	.32	.33	.35	.38	.42	.59
.5000	60.00	.74	.79	.86	.93	1.03	1.18	1.67
	75.00	.56	.60	.64	.68	.75	.84	1.16
	90.00	.45	.47	.50	.53	.58	.65	.89
	105.00	.37	.38	.40	.43	.46	.51	.71
	120.00	.29	.31	.32	.34	.37	.41	.58
.6667	60.00	.74	.80	.86	.94	1.05	1.21	1.75
	75.00	.56	.59	.63	.68	.75	.85	1.20
	90.00	.44	.46	.49	.52	.57	.65	.90
	105.00	.36	.37	.39	.42	.45	.51	.71
	120.00	.28	.30	.31	.33	.36	.40	.57
1.0000	60.00	.76	.82	.89	.98	1.11	1.30	1.98
	75.00	.56	.59	.64	.69	.77	.88	1.28
	90.00	.43	.46	.49	.52	.57	.65	.93
	105.00	.34	.36	.38	.41	.44	.50	.71
	120.00	.27	.28	.30	.31	.34	.39	.55

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 20.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.80	.85	.92	1.00	1.11	1.35	5.73
	75.00	.64	.67	.71	.77	.84	1.01	4.23
	90.00	.53	.55	.59	.63	.69	.82	3.39
	105.00	.45	.47	.49	.53	.58	.70	2.86
	120.00	.39	.40	.42	.45	.49	.61	2.43
.3333	60.00	.79	.85	.92	1.01	1.14	1.44	6.17
	75.00	.61	.65	.70	.76	.84	1.04	4.39
	90.00	.50	.52	.56	.60	.67	.82	3.41
	105.00	.42	.44	.46	.50	.55	.68	2.78
	120.00	.35	.37	.39	.41	.46	.57	2.43
.5000	60.00	.79	.85	.93	1.02	1.17	1.50	6.45
	75.00	.61	.64	.69	.76	.85	1.06	4.49
	90.00	.49	.51	.55	.60	.67	.82	3.43
	105.00	.40	.42	.45	.49	.54	.67	2.76
	120.00	.34	.35	.37	.40	.44	.56	2.45
.6667	60.00	.79	.86	.94	1.05	1.20	1.56	6.78
	75.00	.60	.64	.69	.76	.86	1.09	4.62
	90.00	.48	.51	.54	.59	.66	.83	3.47
	105.00	.40	.42	.44	.48	.53	.67	2.77
	120.00	.33	.34	.36	.39	.43	.55	2.48
1.0000	60.00	.82	.89	.99	1.11	1.30	1.75	7.64
	75.00	.61	.65	.71	.78	.89	1.16	4.95
	90.00	.47	.50	.54	.59	.67	.85	3.59
	105.00	.38	.41	.43	.47	.53	.67	2.87
	120.00	.31	.33	.35	.38	.42	.53	2.57

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 20.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.84	.91	.98	1.09	1.30	2.16	9.98
	75.00	.68	.72	.77	.85	.99	1.62	7.36
	90.00	.57	.60	.64	.70	.82	1.55	5.90
	105.00	.49	.52	.56	.61	.71	6.23	4.97
	120.00	.44	.46	.49	.53	.63	5.73	4.32
.3333	60.00	.84	.91	1.00	1.13	1.38	2.32	10.74
	75.00	.66	.70	.76	.85	1.02	1.68	7.64
	90.00	.54	.58	.62	.69	.81	1.56	5.93
	105.00	.46	.49	.52	.58	.69	6.24	4.84
	120.00	.40	.42	.45	.49	.59	5.75	4.35
.5000	60.00	.84	.92	1.02	1.16	1.44	2.42	11.23
	75.00	.65	.70	.77	.86	1.04	1.72	7.82
	90.00	.53	.57	.61	.68	.82	1.57	5.98
	105.00	.45	.48	.51	.57	.68	6.28	4.81
	120.00	.38	.41	.44	.48	.58	5.78	4.39
.6667	60.00	.85	.94	1.04	1.20	1.51	2.54	11.81
	75.00	.65	.70	.77	.87	1.06	1.76	8.04
	90.00	.53	.56	.61	.68	.83	1.59	6.04
	105.00	.44	.47	.50	.56	.68	6.35	4.85
	120.00	.37	.40	.42	.47	.57	5.84	4.44
1.0000	60.00	.89	.99	1.11	1.30	1.69	2.86	13.30
	75.00	.66	.72	.79	.91	1.13	1.89	8.62
	90.00	.52	.56	.61	.69	.85	1.65	6.24
	105.00	.43	.46	.50	.55	.68	6.54	5.02
	120.00	.36	.38	.41	.46	.56	6.02	4.60

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 20.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.89	.97	1.08	1.26	1.85	3.00	14.23
	75.00	.72	.78	.85	.98	1.41	2.25	10.50
	90.00	.62	.66	.72	.82	1.18	2.32	8.42
	105.00	.55	.58	.63	.72	3.19	12.79	7.09
	120.00	.49	.52	.57	.66	2.94	11.88	6.22
.3333	60.00	.90	.99	1.12	1.34	2.00	3.22	15.31
	75.00	.71	.77	.85	1.00	1.46	2.33	10.89
	90.00	.59	.64	.70	.82	1.19	2.34	8.46
	105.00	.51	.55	.60	.70	3.16	12.83	6.91
	120.00	.45	.48	.53	.62	2.82	11.91	6.27
.5000	60.00	.91	1.01	1.15	1.40	2.09	3.36	16.01
	75.00	.71	.77	.86	1.02	1.50	2.38	11.15
	90.00	.58	.63	.70	.82	1.20	2.36	8.52
	105.00	.50	.54	.59	.69	3.17	12.91	6.85
	120.00	.44	.47	.52	.61	2.78	11.99	6.32
.6667	60.00	.93	1.04	1.19	1.47	2.20	3.53	16.83
	75.00	.71	.78	.88	1.05	1.54	2.45	11.47
	90.00	.58	.63	.70	.83	1.21	2.39	8.61
	105.00	.49	.53	.58	.69	3.18	13.04	6.93
	120.00	.43	.46	.51	.60	2.75	12.11	6.40
1.0000	60.00	.99	1.12	1.30	1.66	2.49	3.97	18.96
	75.00	.73	.81	.92	1.12	1.66	2.62	12.29
	90.00	.58	.63	.71	.85	1.26	2.47	8.90
	105.00	.48	.52	.58	.69	3.23	13.44	7.17
	120.00	.41	.45	.49	.59	2.71	12.48	6.62

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 20.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.96	1.06	1.23	1.61	2.45	3.83	18.47
	75.00	.78	.85	.97	1.25	1.86	2.87	13.63
	90.00	.67	.73	.82	1.07	1.58	3.10	10.93
	105.00	.61	.66	.74	2.06	6.76	19.36	9.21
	120.00	.56	.61	.69	1.95	6.23	18.03	8.13
.3333	60.00	.98	1.10	1.31	1.74	2.64	4.12	19.89
	75.00	.77	.86	.99	1.29	1.93	2.98	14.14
	90.00	.65	.72	.82	1.07	1.59	3.12	10.98
	105.00	.57	.63	.72	2.05	6.69	19.41	8.97
	120.00	.52	.57	.65	1.88	5.97	18.08	8.19
.5000	60.00	1.00	1.14	1.37	1.81	2.76	4.30	20.79
	75.00	.78	.87	1.01	1.32	1.98	3.04	14.48
	90.00	.65	.71	.83	1.08	1.60	3.14	11.07
	105.00	.56	.62	.71	2.06	6.69	19.53	8.90
	120.00	.51	.55	.64	1.86	5.88	18.20	8.26
.6667	60.00	1.03	1.18	1.43	1.91	2.91	4.52	21.86
	75.00	.79	.88	1.04	1.36	2.04	3.13	14.89
	90.00	.65	.72	.83	1.10	1.62	3.18	11.19
	105.00	.55	.61	.71	2.07	6.72	19.73	9.01
	120.00	.49	.54	.63	1.84	5.81	18.38	8.36
1.0000	60.00	1.12	1.30	1.61	2.15	3.29	5.07	24.63
	75.00	.82	.93	1.12	1.46	2.19	3.35	15.96
	90.00	.65	.73	.86	1.13	1.68	3.30	11.56
	105.00	.55	.61	.71	2.12	6.84	20.34	9.33
	120.00	.48	.53	.62	1.83	5.74	18.95	8.65

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 20.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	1.04	1.19	1.48	1.98	3.04	4.67	22.72
	75.00	.85	.96	1.17	1.53	2.31	3.50	16.77
	90.00	.74	.83	1.01	1.33	1.97	3.87	13.44
	105.00	.68	.76	2.94	4.53	10.32	25.92	11.32
	120.00	.64	.72	2.86	4.29	9.51	24.18	10.04
.3333	60.00	1.08	1.28	1.59	2.13	3.28	5.02	24.46
	75.00	.86	.98	1.21	1.59	2.40	3.62	17.39
	90.00	.73	.83	1.02	1.34	1.98	3.90	13.51
	105.00	.65	.73	2.96	4.52	10.22	25.99	11.03
	120.00	.60	.68	2.79	4.14	9.12	24.24	10.10
.5000	60.00	1.12	1.34	1.66	2.23	3.43	5.24	25.57
	75.00	.87	1.01	1.24	1.63	2.46	3.71	17.81
	90.00	.73	.83	1.03	1.35	2.00	3.93	13.61
	105.00	.64	.73	2.98	4.53	10.22	26.16	10.95
	120.00	.59	.67	2.76	4.10	8.99	24.40	10.19
.6667	60.00	1.17	1.41	1.75	2.35	3.61	5.50	26.88
	75.00	.89	1.04	1.27	1.68	2.54	3.81	18.32
	90.00	.73	.84	1.04	1.37	2.02	3.98	13.76
	105.00	.64	.73	3.01	4.56	10.26	26.42	11.09
	120.00	.58	.66	2.75	4.06	8.88	24.65	10.31
1.0000	60.00	1.30	1.59	1.96	2.64	4.08	6.18	30.29
	75.00	.94	1.11	1.36	1.80	2.72	4.08	19.63
	90.00	.75	.87	1.08	1.42	2.10	4.12	14.22
	105.00	.63	.73	3.11	4.67	10.44	27.24	11.48
	120.00	.57	.65	2.76	4.03	8.77	25.41	10.68

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 20.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	1.16	1.41	1.75	2.35	3.64	5.50	26.97
	75.00	.95	1.13	1.38	1.82	2.77	4.13	19.90
	90.00	.83	.98	1.21	1.60	2.36	4.64	15.96
	105.00	.77	1.02	10.64	7.01	13.88	32.48	13.44
	120.00	.75	1.04	10.35	6.64	12.80	30.33	11.94
.3333	60.00	1.24	1.53	1.88	2.53	3.92	5.91	29.03
	75.00	.97	1.17	1.42	1.89	2.87	4.27	20.64
	90.00	.83	.99	1.22	1.61	2.38	4.68	16.03
	105.00	.75	1.02	10.69	6.98	13.75	32.57	13.09
	120.00	.71	1.02	10.09	6.41	12.27	30.41	12.02
.5000	60.00	1.30	1.60	1.96	2.65	4.10	6.18	30.35
	75.00	1.00	1.20	1.46	1.93	2.95	4.37	21.14
	90.00	.84	1.00	1.23	1.62	2.40	4.72	16.15
	105.00	.75	1.03	10.77	7.01	13.75	32.78	13.01
	120.00	.70	1.01	10.01	6.33	12.09	30.61	12.13
.6667	60.00	1.37	1.68	2.06	2.78	4.32	6.49	31.91
	75.00	1.03	1.24	1.50	1.99	3.03	4.49	21.74
	90.00	.85	1.01	1.25	1.64	2.43	4.77	16.33
	105.00	.74	1.05	10.89	7.05	13.80	33.11	13.17
	120.00	.69	1.01	9.96	6.28	11.95	30.91	12.27
1.0000	60.00	1.54	1.90	2.32	3.14	4.88	7.29	35.95
	75.00	1.10	1.33	1.60	2.13	3.25	4.81	23.29
	90.00	.88	1.04	1.29	1.70	2.51	4.94	16.88
	105.00	.75	1.08	11.25	7.23	14.05	34.13	13.63
	120.00	.68	1.02	9.98	6.24	11.80	31.87	12.71

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 25.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.69	.74	.79	.86	.95	1.08	1.51
	75.00	.52	.55	.59	.63	.69	.77	1.07
	90.00	.41	.43	.45	.48	.52	.59	.81
	105.00	.32	.33	.35	.37	.40	.45	.64
	120.00	.24	.25	.26	.28	.30	.34	.50
.3333	60.00	.67	.72	.79	.86	.96	1.12	1.67
	75.00	.50	.53	.56	.61	.68	.77	1.12
	90.00	.38	.40	.42	.45	.50	.57	.82
	105.00	.29	.30	.32	.34	.37	.42	.63
	120.00	.21	.22	.23	.25	.27	.31	.46
.5000	60.00	.67	.73	.79	.87	.98	1.16	1.77
	75.00	.49	.52	.56	.61	.68	.78	1.16
	90.00	.37	.39	.41	.45	.49	.56	.83
	105.00	.28	.29	.31	.33	.36	.41	.62
	120.00	.21	.21	.22	.24	.26	.30	.45
.6667	60.00	.68	.74	.81	.89	1.01	1.20	1.90
	75.00	.49	.52	.56	.61	.68	.80	1.20
	90.00	.36	.38	.41	.44	.49	.56	.85
	105.00	.27	.29	.30	.33	.36	.41	.62
	120.00	.20	.21	.22	.23	.25	.29	.44
1.0000	60.00	.71	.77	.86	.96	1.10	1.34	2.25
	75.00	.49	.53	.57	.63	.71	.84	1.33
	90.00	.36	.38	.41	.45	.49	.56	.89
	105.00	.27	.28	.30	.32	.35	.41	.63
	120.00	.19	.20	.21	.22	.24	.28	.43

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 25.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.72	.78	.84	.93	1.04	1.27	5.85
	75.00	.55	.59	.63	.69	.76	.92	4.13
	90.00	.44	.46	.49	.53	.59	.71	3.15
	105.00	.35	.37	.39	.42	.47	.57	2.49
	120.00	.28	.29	.31	.33	.36	.44	1.93
.3333	60.00	.71	.77	.85	.94	1.08	1.36	6.44
	75.00	.53	.57	.62	.68	.76	.94	4.33
	90.00	.41	.44	.47	.51	.57	.70	3.17
	105.00	.32	.34	.36	.39	.44	.54	2.42
	120.00	.25	.26	.28	.30	.33	.41	1.90
.5000	60.00	.72	.78	.86	.97	1.12	1.43	6.84
	75.00	.53	.57	.61	.68	.77	.96	4.47
	90.00	.40	.43	.46	.50	.57	.71	3.21
	105.00	.31	.33	.35	.38	.43	.53	2.41
	120.00	.24	.25	.27	.29	.32	.39	1.93
.6667	60.00	.73	.80	.88	1.00	1.16	1.51	7.33
	75.00	.53	.57	.62	.69	.79	.99	4.66
	90.00	.40	.42	.46	.50	.57	.71	3.27
	105.00	.31	.32	.35	.38	.42	.53	2.40
	120.00	.23	.24	.26	.28	.31	.39	1.97
1.0000	60.00	.77	.85	.95	1.09	1.30	1.76	8.71
	75.00	.54	.58	.64	.72	.83	1.08	5.15
	90.00	.40	.43	.46	.51	.58	.74	3.45
	105.00	.30	.32	.34	.37	.42	.53	2.54
	120.00	.22	.23	.25	.27	.30	.38	2.08

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 25.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.76	.83	.91	1.01	1.19	1.96	10.19
	75.00	.59	.63	.68	.76	.87	1.42	7.19
	90.00	.48	.51	.54	.60	.69	1.17	5.48
	105.00	.39	.41	.44	.49	.56	6.94	4.34
	120.00	.32	.33	.36	.39	.45	5.90	3.39
.3333	60.00	.76	.83	.92	1.05	1.27	2.17	11.21
	75.00	.57	.62	.68	.76	.90	1.49	7.54
	90.00	.45	.48	.52	.58	.68	1.16	5.53
	105.00	.36	.38	.41	.46	.54	7.01	4.21
	120.00	.29	.30	.32	.36	.42	5.96	3.43
.5000	60.00	.77	.85	.95	1.09	1.33	2.31	11.99
	75.00	.57	.62	.68	.77	.92	1.54	7.79
	90.00	.44	.47	.52	.58	.68	1.19	5.59
	105.00	.35	.37	.40	.45	.53	7.11	4.18
	120.00	.28	.29	.31	.35	.41	6.04	3.47
.6667	60.00	.78	.87	.98	1.13	1.41	2.48	12.76
	75.00	.57	.62	.69	.78	.94	1.60	8.11
	90.00	.44	.47	.51	.58	.69	1.22	5.69
	105.00	.34	.37	.40	.44	.52	7.24	4.21
	120.00	.27	.28	.31	.34	.40	6.16	3.54
1.0000	60.00	.84	.94	1.08	1.27	1.64	2.95	15.17
	75.00	.59	.65	.72	.83	1.02	1.78	8.97
	90.00	.44	.48	.52	.59	.72	1.29	6.00
	105.00	.34	.36	.39	.44	.53	7.66	4.45
	120.00	.26	.27	.30	.33	.39	6.51	3.74

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 25.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.81	.88	.98	1.14	1.53	2.64	14.53
	75.00	.63	.68	.75	.85	1.12	2.04	10.24
	90.00	.52	.55	.60	.68	.90	1.75	7.82
	105.00	.43	.46	.50	.57	1.21	18.51	6.18
	120.00	.36	.39	.42	.47	.97	15.89	4.90
.3333	60.00	.81	.90	1.02	1.21	1.69	3.12	15.99
	75.00	.62	.67	.75	.87	1.18	2.14	10.75
	90.00	.49	.53	.59	.67	.91	1.77	7.88
	105.00	.40	.43	.47	.54	1.22	18.70	6.00
	120.00	.33	.35	.38	.44	.98	16.06	4.95
.5000	60.00	.83	.93	1.06	1.27	1.79	3.32	16.97
	75.00	.62	.68	.76	.89	1.22	2.21	11.11
	90.00	.49	.53	.58	.67	.92	1.79	7.87
	105.00	.39	.42	.46	.53	1.23	18.96	5.96
	120.00	.32	.34	.37	.43	.99	16.27	5.02
.6667	60.00	.85	.96	1.11	1.34	1.92	3.56	18.19
	75.00	.63	.69	.78	.91	1.27	2.30	11.56
	90.00	.48	.53	.59	.68	.94	1.83	8.12
	105.00	.39	.42	.46	.53	1.25	19.32	6.02
	120.00	.31	.33	.36	.42	1.00	16.59	5.11
1.0000	60.00	.93	1.07	1.25	1.56	2.29	4.23	21.83
	75.00	.65	.73	.83	.99	1.41	2.55	12.79
	90.00	.49	.54	.60	.71	.99	1.93	8.58
	105.00	.38	.42	.46	.53	1.31	20.42	6.36
	120.00	.30	.32	.36	.41	1.05	17.53	5.41

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 25.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.86	.95	1.09	1.35	2.01	3.70	18.87
	75.00	.68	.74	.83	1.01	1.47	2.66	13.30
	90.00	.56	.61	.68	.82	1.20	2.33	10.15
	105.00	.48	.52	.58	.70	7.65	30.07	8.03
	120.00	.42	.45	.50	.61	6.54	25.88	6.41
.3333	60.00	.88	.99	1.16	1.49	2.21	4.07	20.76
	75.00	.67	.74	.85	1.06	1.54	2.79	13.95
	90.00	.54	.59	.67	.83	1.21	2.36	10.23
	105.00	.45	.49	.55	.68	7.69	30.39	7.79
	120.00	.38	.41	.46	.57	6.57	26.16	6.47
.5000	60.00	.91	1.03	1.21	1.58	2.35	4.33	22.04
	75.00	.68	.75	.87	1.10	1.60	2.88	14.42
	90.00	.54	.59	.67	.84	1.23	2.39	10.36
	105.00	.44	.48	.54	.68	7.77	30.80	7.73
	120.00	.37	.40	.45	.56	6.64	26.51	6.56
.6667	60.00	.94	1.08	1.29	1.70	2.52	4.64	23.62
	75.00	.69	.77	.89	1.14	1.66	3.00	15.01
	90.00	.54	.59	.68	.85	1.25	2.43	10.54
	105.00	.44	.48	.54	.68	7.90	31.39	7.83
	120.00	.36	.39	.44	.55	6.75	27.01	6.69
1.0000	60.00	1.05	1.23	1.51	2.03	3.00	5.52	28.08
	75.00	.73	.83	.97	1.27	1.84	3.32	16.61
	90.00	.55	.61	.71	.90	1.32	2.57	11.11
	105.00	.44	.48	.55	.70	8.30	33.18	8.27
	120.00	.35	.38	.43	.55	7.10	28.55	7.07

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 25.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.92	1.05	1.25	1.68	2.48	4.56	23.21
	75.00	.73	.82	.95	1.25	1.82	3.28	16.36
	90.00	.62	.68	.79	1.02	1.50	2.91	12.46
	105.00	.54	.59	.68	3.53	14.09	41.64	9.88
	120.00	.48	.52	.61	3.17	12.10	35.87	7.91
.3333	60.00	.96	1.11	1.37	1.85	2.73	5.02	25.53
	75.00	.74	.83	1.00	1.31	1.91	3.44	17.16
	90.00	.60	.67	.79	1.03	1.51	2.95	12.56
	105.00	.51	.56	.66	3.54	14.16	42.09	9.58
	120.00	.44	.48	.57	3.06	12.17	36.25	8.00
.5000	60.00	1.00	1.17	1.46	1.96	2.90	5.33	27.11
	75.00	.75	.85	1.03	1.36	1.97	3.56	17.74
	90.00	.60	.67	.80	1.05	1.53	2.99	12.74
	105.00	.50	.56	.66	3.57	14.32	42.65	9.51
	120.00	.43	.47	.56	3.03	12.30	36.74	8.11
.6667	60.00	1.05	1.24	1.57	2.11	3.11	5.72	29.00
	75.00	.77	.88	1.07	1.42	2.05	3.70	18.46
	90.00	.60	.68	.82	1.07	1.56	3.04	12.95
	105.00	.50	.55	.66	3.63	14.55	43.47	9.63
	120.00	.42	.46	.55	3.02	12.50	37.44	8.26
1.0000	60.00	1.21	1.47	1.87	2.51	3.71	6.81	34.54
	75.00	.82	.96	1.19	1.57	2.28	4.10	20.43
	90.00	.62	.71	.86	1.13	1.65	3.22	13.67
	105.00	.50	.56	.67	3.80	15.29	45.95	10.18
	120.00	.41	.46	.55	3.04	13.14	39.58	8.73

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 25.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	1.00	1.17	1.49	2.00	2.96	5.43	27.55
	75.00	.80	.91	1.13	1.49	2.16	3.90	19.42
	90.00	.68	.77	.94	1.23	1.80	3.50	14.82
	105.00	.60	.68	.95	8.24	20.52	53.21	11.72
	120.00	.55	.62	.91	7.41	17.67	45.86	9.42
.3333	60.00	1.07	1.29	1.64	2.20	3.26	5.97	30.31
	75.00	.82	.95	1.19	1.57	2.27	4.09	20.37
	90.00	.67	.77	.95	1.24	1.82	3.53	14.94
	105.00	.58	.66	.96	8.26	20.64	53.78	11.37
	120.00	.51	.58	.89	7.15	17.77	46.35	9.52
.5000	60.00	1.12	1.37	1.74	2.34	3.46	6.34	32.16
	75.00	.84	.99	1.23	1.62	2.35	4.23	21.06
	90.00	.67	.78	.96	1.26	1.84	3.58	15.12
	105.00	.57	.65	.97	8.34	20.86	54.50	11.29
	120.00	.50	.57	.89	7.08	17.96	46.97	9.65
.6667	60.00	1.20	1.47	1.87	2.51	3.71	6.80	34.48
	75.00	.86	1.03	1.28	1.69	2.45	4.40	21.91
	90.00	.68	.80	.98	1.28	1.88	3.65	15.39
	105.00	.57	.66	.99	8.47	21.20	55.54	11.44
	120.00	.49	.56	.89	7.05	18.25	47.87	9.83
1.0000	60.00	1.41	1.75	2.23	3.00	4.42	8.09	41.00
	75.00	.95	1.14	1.42	1.87	2.71	4.87	24.25
	90.00	.71	.84	1.03	1.35	1.98	3.86	16.22
	105.00	.58	.67	1.05	8.87	22.28	58.71	12.09
	120.00	.48	.56	.91	7.10	19.18	50.60	10.40

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 30.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.62	.67	.72	.79	.88	1.03	1.52
	75.00	.45	.48	.51	.55	.61	.70	1.03
	90.00	.33	.35	.37	.40	.44	.50	.74
	105.00	.24	.26	.27	.29	.31	.36	.54
	120.00	.17	.17	.18	.19	.21	.24	.33
.3333	60.00	.61	.66	.72	.80	.91	1.08	1.72
	75.00	.43	.46	.49	.54	.60	.71	1.09
	90.00	.31	.33	.35	.38	.42	.49	.75
	105.00	.22	.23	.25	.26	.29	.33	.53
	120.00	.15	.15	.16	.17	.18	.21	.35
.5000	60.00	.61	.67	.73	.82	.94	1.12	1.85
	75.00	.42	.46	.49	.54	.61	.72	1.14
	90.00	.30	.32	.34	.37	.41	.46	.77
	105.00	.21	.23	.24	.26	.28	.33	.53
	120.00	.14	.14	.15	.16	.18	.20	.34
.6667	60.00	.62	.68	.75	.85	.96	1.18	2.03
	75.00	.42	.46	.50	.55	.62	.74	1.20
	90.00	.30	.32	.34	.37	.41	.49	.79
	105.00	.21	.22	.23	.25	.28	.32	.53
	120.00	.13	.14	.15	.16	.17	.20	.33
1.0000	60.00	.67	.74	.83	.94	1.11	1.38	2.59
	75.00	.44	.48	.52	.58	.66	.80	1.38
	90.00	.30	.32	.35	.38	.43	.51	.85
	105.00	.21	.22	.23	.25	.28	.33	.54
	120.00	.13	.13	.14	.15	.17	.19	.33

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 30.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.65	.71	.77	.86	.98	1.20	5.89
	75.00	.48	.51	.55	.61	.68	.83	3.96
	90.00	.36	.39	.41	.45	.50	.61	2.87
	105.00	.27	.29	.31	.33	.37	.45	2.11
	120.00	.20	.20	.21	.23	.26	.31	1.59
.3333	60.00	.64	.71	.78	.88	1.02	1.30	6.63
	75.00	.46	.50	.54	.60	.69	.85	4.21
	90.00	.34	.36	.39	.43	.48	.60	2.90
	105.00	.25	.26	.28	.30	.34	.43	2.05
	120.00	.17	.18	.19	.21	.23	.29	1.51
.5000	60.00	.65	.72	.80	.91	1.07	1.38	7.16
	75.00	.46	.50	.54	.60	.70	.88	4.40
	90.00	.33	.36	.38	.42	.48	.60	2.96
	105.00	.24	.26	.27	.30	.34	.42	2.04
	120.00	.17	.17	.18	.20	.22	.28	1.53
.6667	60.00	.67	.74	.83	.95	1.13	1.48	7.85
	75.00	.46	.50	.55	.62	.72	.91	4.64
	90.00	.33	.35	.38	.42	.48	.61	3.03
	105.00	.24	.25	.27	.29	.33	.42	2.07
	120.00	.16	.17	.18	.19	.22	.27	1.53
1.0000	60.00	.73	.82	.93	1.08	1.32	1.82	10.00
	75.00	.48	.53	.58	.66	.78	1.03	5.35
	90.00	.34	.36	.39	.44	.50	.65	3.28
	105.00	.24	.25	.27	.29	.34	.43	2.21
	120.00	.15	.16	.17	.19	.21	.27	1.61

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 30.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.69	.75	.83	.94	1.10	1.66	10.26
	75.00	.51	.55	.60	.67	.78	1.15	6.90
	90.00	.40	.42	.46	.50	.58	.90	5.00
	105.00	.31	.32	.35	.38	.44	1.09	3.69
	120.00	.23	.24	.25	.28	.32	.82	2.82
.3333	60.00	.69	.76	.85	.98	1.19	1.86	11.54
	75.00	.50	.54	.60	.67	.80	1.21	7.33
	90.00	.37	.40	.44	.49	.57	.91	5.06
	105.00	.28	.30	.32	.36	.42	1.07	3.58
	120.00	.20	.21	.23	.25	.29	.78	2.75
.5000	60.00	.70	.78	.88	1.02	1.26	2.01	12.47
	75.00	.50	.54	.60	.68	.82	1.26	7.66
	90.00	.37	.40	.43	.49	.58	.93	5.15
	105.00	.27	.29	.31	.35	.41	1.07	3.59
	120.00	.20	.21	.22	.24	.28	.77	2.76
.6667	60.00	.72	.81	.92	1.08	1.35	2.19	13.67
	75.00	.50	.55	.61	.70	.85	1.33	8.08
	90.00	.37	.40	.43	.49	.58	.96	5.29
	105.00	.27	.29	.31	.35	.41	1.08	3.63
	120.00	.19	.20	.22	.24	.28	.78	2.78
1.0000	60.00	.81	.92	1.06	1.27	1.65	2.77	17.42
	75.00	.53	.59	.66	.77	.95	1.53	9.31
	90.00	.37	.41	.45	.51	.62	1.04	5.71
	105.00	.27	.29	.31	.35	.42	1.14	2.18
	120.00	.18	.20	.21	.23	.28	.80	2.95

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 30.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.73	.80	.90	1.04	1.32	2.28	14.62
	75.00	.55	.60	.66	.75	.93	1.57	9.84
	90.00	.43	.47	.51	.57	.71	1.35	7.12
	105.00	.34	.37	.40	.45	.56	2.88	5.25
	120.00	.26	.28	.30	.34	.43	2.25	4.10
.3333	60.00	.74	.83	.94	1.11	1.48	2.55	16.49
	75.00	.54	.59	.66	.77	.99	1.66	10.45
	90.00	.41	.45	.49	.56	.72	1.37	7.21
	105.00	.32	.34	.37	.42	.54	2.84	5.11
	120.00	.24	.25	.27	.31	.40	2.18	3.97
.5000	60.00	.76	.86	.98	1.18	1.60	2.75	17.78
	75.00	.54	.60	.67	.79	1.03	1.73	10.92
	90.00	.41	.44	.49	.56	.73	1.40	7.34
	105.00	.31	.33	.36	.42	.54	2.84	5.10
	120.00	.23	.24	.27	.30	.39	2.17	3.98
.6667	60.00	.79	.90	1.04	1.26	1.76	3.01	19.49
	75.00	.55	.61	.69	.82	1.09	1.83	11.52
	90.00	.41	.44	.49	.57	.75	1.44	7.53
	105.00	.30	.33	.36	.41	.54	2.87	5.19
	120.00	.22	.24	.26	.30	.38	2.20	4.02
1.0000	60.00	.90	1.04	1.24	1.55	2.24	3.80	24.83
	75.00	.59	.66	.76	.91	1.25	2.09	13.27
	90.00	.42	.46	.52	.61	.81	1.56	8.14
	105.00	.31	.33	.37	.42	.56	1.83	3.00
	120.00	.22	.23	.26	.29	.39	2.34	4.30

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 30.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.78	.87	.99	1.19	1.71	2.90	18.99
	75.00	.59	.65	.73	.86	1.21	2.00	12.78
	90.00	.47	.51	.57	.67	.94	1.80	9.25
	105.00	.38	.41	.46	.53	1.68	4.69	6.82
	120.00	.31	.33	.36	.42	1.36	3.70	5.35
.3333	60.00	.80	.91	1.06	1.31	1.92	3.25	21.37
	75.00	.59	.65	.74	.90	1.28	2.11	13.57
	90.00	.45	.50	.56	.67	.95	1.83	9.36
	105.00	.36	.39	.43	.51	1.68	4.61	6.64
	120.00	.28	.30	.33	.39	1.31	3.59	5.20
.5000	60.00	.83	.95	1.12	1.41	2.08	3.50	23.09
	75.00	.60	.67	.76	.93	1.34	2.20	14.18
	90.00	.45	.50	.56	.68	.97	1.86	9.53
	105.00	.35	.38	.43	.51	1.69	4.60	6.63
	120.00	.27	.29	.32	.38	1.30	3.60	5.21
.6667	60.00	.87	1.01	1.20	1.54	2.28	3.82	25.31
	75.00	.61	.69	.79	.98	1.41	2.32	14.95
	90.00	.45	.50	.57	.69	1.00	1.92	9.78
	105.00	.35	.38	.42	.51	1.72	4.68	6.75
	120.00	.26	.28	.32	.38	1.31	3.64	5.27
1.0000	60.00	1.02	1.20	1.48	1.95	2.90	4.83	32.25
	75.00	.66	.75	.89	1.13	1.63	2.66	17.23
	90.00	.47	.53	.60	.75	1.08	2.08	10.58
	105.00	.35	.38	.43	.53	1.29	2.79	3.83
	120.00	.26	.28	.31	.38	1.38	3.89	2.96

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 30.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.83	.94	1.10	1.42	2.10	3.51	23.36
	75.00	.64	.71	.82	1.02	1.48	2.42	15.72
	90.00	.52	.57	.65	.81	1.17	2.25	11.33
	105.00	.43	.47	.53	.67	3.70	6.50	8.32
	120.00	.35	.38	.43	.56	3.02	5.15	6.61
.3333	60.00	.87	1.01	1.21	1.59	2.37	3.94	26.28
	75.00	.64	.73	.85	1.08	1.57	2.56	16.69
	90.00	.50	.56	.64	.82	1.19	2.29	11.52
	105.00	.40	.44	.51	.66	3.69	6.38	8.17
	120.00	.32	.35	.40	.53	2.92	5.01	6.42
.5000	60.00	.91	1.06	1.30	1.71	2.56	4.24	28.40
	75.00	.66	.75	.88	1.13	1.64	2.67	17.43
	90.00	.50	.56	.65	.84	1.21	2.33	11.72
	105.00	.40	.44	.50	.67	3.73	6.37	8.16
	120.00	.31	.34	.39	.52	2.93	5.02	6.44
.6667	60.00	.97	1.15	1.42	1.87	2.80	4.64	31.14
	75.00	.68	.77	.93	1.19	1.74	2.81	18.39
	90.00	.51	.57	.67	.86	1.25	2.40	12.00
	105.00	.39	.44	.50	.68	3.80	6.48	8.30
	120.00	.31	.34	.39	.52	2.96	5.08	6.52
1.0000	60.00	1.18	1.43	1.81	2.37	3.57	5.85	35.65
	75.00	.75	.87	1.06	1.36	2.00	3.22	21.20
	90.00	.53	.61	.72	.93	1.35	2.60	13.01
	105.00	.40	.45	.52	.72	2.38	3.74	4.65
	120.00	.30	.34	.39	.53	3.16	2.90	3.62

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 30.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.90	1.04	1.27	1.67	2.50	4.13	27.72
	75.00	.70	.79	.94	1.20	1.76	2.85	18.65
	90.00	.57	.63	.75	.97	1.41	2.70	13.50
	105.00	.48	.53	.63	2.22	5.72	8.30	9.88
	120.00	.40	.45	.53	1.91	4.68	6.60	7.86
.3333	60.00	.96	1.13	1.43	1.87	2.81	4.63	31.20
	75.00	.71	.82	1.00	1.27	1.87	3.01	19.81
	90.00	.56	.63	.76	.98	1.43	2.74	13.67
	105.00	.45	.51	.61	2.25	5.71	8.15	9.70
	120.00	.37	.41	.50	1.86	4.54	6.42	7.64
.5000	60.00	1.01	1.22	1.54	2.01	3.04	4.99	33.71
	75.00	.73	.85	1.04	1.33	1.95	3.14	20.69
	90.00	.56	.64	.77	1.00	1.46	2.80	13.91
	105.00	.45	.51	.61	2.30	5.76	8.14	9.69
	120.00	.36	.41	.49	1.85	4.55	6.43	7.66
.6667	60.00	1.09	1.33	1.69	2.20	3.33	5.45	36.96
	75.00	.76	.89	1.10	1.40	2.06	3.31	21.83
	90.00	.57	.65	.80	1.03	1.50	2.88	14.28
	105.00	.45	.51	.62	2.36	5.87	8.28	9.86
	120.00	.36	.40	.48	1.86	4.61	6.52	7.77
1.0000	60.00	1.38	1.68	2.15	2.78	4.24	6.88	47.08
	75.00	.86	1.02	1.26	1.60	2.37	3.79	25.16
	90.00	.61	.71	.86	1.12	1.62	3.12	15.44
	105.00	.46	.53	.65	2.56	3.48	4.69	5.47
	120.00	.36	.40	.49	1.91	2.71	3.67	4.29

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 35.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.55	.60	.66	.73	.82	.96	1.51
	75.00	.39	.41	.44	.48	.54	.63	.97
	90.00	.27	.29	.31	.33	.37	.42	.66
	105.00	.18	.19	.20	.22	.24	.28	.45
	120.00	.11	.11	.12	.12	.13	.16	.27
.3333	60.00	.54	.60	.66	.74	.85	1.02	1.74
	75.00	.37	.40	.43	.47	.53	.63	1.04
	90.00	.25	.27	.29	.31	.35	.41	.67
	105.00	.17	.17	.18	.20	.22	.25	.43
	120.00	.09	.10	.10	.11	.12	.14	.24
.5000	60.00	.55	.61	.68	.76	.88	1.08	1.92
	75.00	.37	.40	.43	.48	.54	.65	1.10
	90.00	.25	.26	.28	.31	.35	.41	.69
	105.00	.16	.17	.18	.19	.21	.25	.43
	120.00	.09	.09	.10	.10	.11	.13	.24
.6667	60.00	.57	.63	.71	.80	.94	1.16	2.16
	75.00	.37	.40	.44	.49	.56	.67	1.18
	90.00	.25	.26	.28	.31	.35	.41	.72
	105.00	.16	.17	.18	.19	.21	.25	.44
	120.00	.09	.09	.10	.10	.11	.13	.23
1.0000	60.00	.64	.72	.81	.94	1.12	1.44	3.01
	75.00	.40	.43	.47	.53	.62	.76	1.43
	90.00	.25	.27	.29	.32	.37	.44	.80
	105.00	.16	.17	.18	.19	.22	.26	.46
	120.00	.08	.09	.09	.10	.11	.13	.23

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 35.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.58	.64	.70	.79	.90	1.12	5.84
	75.00	.41	.45	.48	.53	.60	.74	3.74
	90.00	.30	.32	.34	.37	.42	.51	2.56
	105.00	.21	.22	.23	.25	.28	.35	1.74
	120.00	.13	.14	.14	.15	.17	.21	1.03
.3333	60.00	.58	.64	.72	.82	.96	1.24	6.73
	75.00	.40	.43	.47	.53	.61	.77	4.03
	90.00	.28	.30	.32	.35	.40	.51	2.61
	105.00	.19	.20	.21	.23	.26	.33	1.68
	120.00	.12	.12	.13	.14	.15	.19	1.04
.5000	60.00	.60	.66	.74	.85	1.01	1.33	7.42
	75.00	.40	.44	.48	.54	.62	.80	4.26
	90.00	.27	.29	.32	.35	.40	.51	2.67
	105.00	.18	.20	.21	.23	.26	.32	1.68
	120.00	.11	.12	.12	.13	.15	.19	1.07
.6667	60.00	.62	.69	.78	.90	1.09	1.46	8.35
	75.00	.41	.44	.49	.55	.65	.84	4.57
	90.00	.27	.29	.32	.35	.41	.52	2.77
	105.00	.18	.19	.21	.23	.26	.32	1.70
	120.00	.11	.11	.12	.13	.15	.18	1.11
1.0000	60.00	.71	.80	.92	1.09	1.35	1.91	11.65
	75.00	.44	.48	.54	.61	.73	.98	5.54
	90.00	.29	.31	.34	.37	.44	.57	3.09
	105.00	.18	.20	.21	.23	.26	.33	1.89
	120.00	.10	.11	.12	.13	.14	.18	1.24

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 35.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.62	.68	.76	.86	1.02	1.49	10.16
	75.00	.45	.48	.53	.59	.69	.99	6.52
	90.00	.33	.35	.38	.42	.49	.70	4.46
	105.00	.24	.25	.27	.30	.34	.51	3.04
	120.00	.16	.17	.18	.19	.22	.34	1.87
.3333	60.00	.63	.70	.79	.91	1.11	1.72	11.72
	75.00	.43	.47	.52	.59	.71	1.06	7.02
	90.00	.31	.33	.36	.41	.48	.72	4.54
	105.00	.22	.23	.25	.27	.32	.48	2.93
	120.00	.14	.15	.16	.17	.20	.27	1.91
.5000	60.00	.64	.72	.82	.96	1.19	1.90	12.91
	75.00	.44	.48	.53	.61	.73	1.12	7.42
	90.00	.31	.33	.36	.41	.48	.74	4.65
	105.00	.21	.22	.24	.27	.32	.49	2.92
	120.00	.13	.14	.15	.17	.19	.27	1.96
.6667	60.00	.67	.76	.87	1.03	1.30	2.13	14.55
	75.00	.45	.49	.55	.63	.77	1.20	7.93
	90.00	.31	.33	.36	.41	.49	.77	4.82
	105.00	.21	.22	.24	.27	.32	.51	2.96
	120.00	.13	.14	.15	.16	.19	.28	2.04
1.0000	60.00	.79	.91	1.06	1.29	1.70	2.97	20.26
	75.00	.49	.54	.61	.72	.89	1.45	9.64
	90.00	.32	.35	.39	.44	.53	.86	5.38
	105.00	.21	.23	.25	.28	.33	.55	3.32
	120.00	.13	.14	.15	.16	.19	.30	2.28

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 35.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.66	.73	.82	.95	1.19	2.11	14.49
	75.00	.48	.52	.58	.66	.81	1.39	9.30
	90.00	.36	.39	.42	.48	.58	1.06	6.36
	105.00	.27	.28	.31	.35	.42	1.31	4.33
	120.00	.19	.20	.21	.24	.29	.91	2.72
.3333	60.00	.67	.76	.87	1.03	1.34	2.44	16.71
	75.00	.47	.52	.58	.68	.85	1.50	10.01
	90.00	.34	.37	.41	.47	.58	1.08	6.47
	105.00	.25	.26	.29	.33	.41	1.30	4.17
	120.00	.17	.18	.19	.21	.27	.90	2.78
.5000	60.00	.70	.79	.92	1.10	1.47	2.66	18.41
	75.00	.48	.53	.60	.70	.90	1.59	10.50
	90.00	.34	.37	.41	.47	.60	1.11	6.60
	105.00	.24	.26	.28	.32	.40	1.32	4.16
	120.00	.16	.17	.19	.21	.26	.88	2.85
.6667	60.00	.74	.85	.99	1.21	1.65	3.02	20.74
	75.00	.49	.55	.62	.73	.95	1.70	11.34
	90.00	.34	.37	.42	.48	.62	1.15	6.87
	105.00	.24	.26	.28	.32	.41	1.36	4.23
	120.00	.16	.17	.18	.21	.26	.90	2.96
1.0000	60.00	.89	1.04	1.25	1.59	2.28	4.20	28.91
	75.00	.55	.61	.71	.85	1.15	2.06	13.75
	90.00	.36	.40	.45	.52	.68	1.29	7.67
	105.00	.25	.26	.29	.34	.43	2.63	4.75
	120.00	.16	.17	.18	.21	.26	1.80	3.32

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 35.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.70	.79	.90	1.07	1.49	2.74	18.82
	75.00	.52	.57	.64	.75	1.01	1.80	12.07
	90.00	.40	.43	.48	.55	.74	1.41	8.26
	105.00	.30	.32	.36	.41	.58	2.13	5.62
	120.00	.22	.23	.26	.29	.43	1.53	3.57
.3333	60.00	.73	.83	.97	1.20	1.71	3.15	21.70
	75.00	.52	.57	.65	.78	1.08	1.94	13.00
	90.00	.38	.42	.47	.55	.76	1.44	8.40
	105.00	.28	.30	.34	.39	.58	2.13	5.42
	120.00	.20	.21	.23	.27	.41	1.51	3.65
.5000	60.00	.76	.88	1.04	1.30	1.89	3.47	23.91
	75.00	.53	.59	.68	.82	1.15	2.05	13.74
	90.00	.38	.42	.47	.56	.78	1.48	8.61
	105.00	.27	.30	.33	.39	.59	2.16	5.40
	120.00	.19	.21	.23	.26	.40	1.49	3.75
.6667	60.00	.82	.95	1.14	1.45	2.12	3.91	26.93
	75.00	.55	.61	.71	.87	1.23	2.20	14.73
	90.00	.38	.42	.48	.58	.81	1.53	8.93
	105.00	.27	.30	.33	.39	.59	2.22	5.51
	120.00	.19	.20	.22	.26	.40	1.53	3.89
1.0000	60.00	1.02	1.22	1.52	2.01	2.94	5.43	37.54
	75.00	.61	.70	.83	1.04	1.48	2.66	17.85
	90.00	.41	.46	.52	.64	.91	1.72	9.96
	105.00	.28	.31	.35	.41	.65	4.74	6.17
	120.00	.19	.20	.23	.27	.40	3.33	4.36

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 35.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.75	.85	1.00	1.25	1.82	3.36	23.14
	75.00	.56	.62	.71	.87	1.23	2.21	14.85
	90.00	.43	.48	.54	.65	.93	1.76	10.18
	105.00	.34	.37	.41	.50	3.04	2.95	6.91
	120.00	.26	.28	.31	.37	.92	2.16	4.43
.3333	60.00	.79	.92	1.10	1.44	2.10	3.67	26.68
	75.00	.57	.64	.74	.93	1.33	2.38	15.98
	90.00	.42	.47	.54	.66	.95	1.80	10.33
	105.00	.32	.35	.39	.49	3.07	2.95	6.66
	120.00	.23	.25	.28	.35	.87	2.07	4.52
.5000	60.00	.84	.98	1.20	1.58	2.31	4.26	29.40
	75.00	.58	.66	.77	.99	1.40	2.52	16.90
	90.00	.42	.47	.54	.68	.98	1.84	10.59
	105.00	.31	.34	.39	.49	3.14	3.00	6.65
	120.00	.23	.25	.28	.34	.88	2.11	4.64
.6667	60.00	.91	1.08	1.34	1.77	2.60	4.79	33.12
	75.00	.61	.69	.82	1.06	1.50	2.70	18.12
	90.00	.43	.48	.56	.71	1.01	1.92	10.93
	105.00	.31	.34	.39	.50	3.24	3.07	6.78
	120.00	.22	.24	.27	.34	.88	2.16	4.82
1.0000	60.00	1.19	1.46	1.85	2.46	3.60	6.67	46.17
	75.00	.70	.81	.99	1.28	1.82	3.27	21.56
	90.00	.47	.53	.62	.79	1.14	2.15	12.25
	105.00	.33	.36	.42	.53	1.86	6.85	7.60
	120.00	.22	.25	.28	.35	1.28	4.87	5.40

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 35.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.81	.93	1.12	1.47	2.16	3.98	27.47
	75.00	.61	.68	.80	1.03	1.46	2.62	17.62
	90.00	.48	.53	.61	.78	1.12	2.11	12.05
	105.00	.38	.42	.48	.65	5.78	3.77	8.20
	120.00	.30	.33	.37	.51	1.41	2.78	5.28
.3333	60.00	.87	1.03	1.28	1.70	2.48	4.58	31.67
	75.00	.62	.71	.85	1.10	1.57	2.82	18.97
	90.00	.47	.53	.62	.80	1.14	2.16	12.26
	105.00	.36	.40	.47	.65	5.84	3.77	7.91
	120.00	.27	.30	.35	.49	1.38	2.68	5.39
.5000	60.00	.93	1.12	1.40	1.86	2.73	5.05	34.90
	75.00	.64	.74	.90	1.16	1.66	2.98	20.06
	90.00	.47	.54	.64	.82	1.17	2.21	12.57
	105.00	.36	.40	.47	.66	5.96	3.83	7.89
	120.00	.27	.29	.34	.48	1.37	2.72	5.54
.6667	60.00	1.03	1.25	1.58	2.10	3.07	5.68	39.32
	75.00	.68	.79	.96	1.25	1.78	3.20	21.51
	90.00	.49	.55	.66	.85	1.22	2.30	13.03
	105.00	.36	.40	.47	.68	6.15	8.13	8.06
	120.00	.26	.29	.34	.49	1.40	2.79	5.75
1.0000	60.00	1.40	1.72	2.18	2.90	4.26	7.90	54.80
	75.00	.80	.95	1.16	1.51	2.15	3.87	26.07
	90.00	.53	.61	.74	.95	1.36	2.58	14.54
	105.00	.38	.42	.51	.75	3.13	8.97	9.03
	120.00	.27	.30	.35	.51	2.21	6.40	6.45

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 40.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.49	.54	.59	.66	.75	.89	1.47
	75.00	.33	.35	.38	.42	.47	.55	.90
	90.00	.22	.23	.25	.27	.30	.35	.58
	105.00	.13	.14	.15	.16	.17	.20	.35
	120.00	.07	.07	.07	.07	.08	.09	.17
.3333	60.00	.49	.54	.60	.68	.78	.96	1.74
	75.00	.32	.34	.37	.41	.47	.56	.96
	90.00	.20	.21	.23	.25	.28	.34	.59
	105.00	.12	.13	.13	.14	.16	.19	.34
	120.00	.06	.06	.06	.07	.07	.08	.16
.5000	60.00	.50	.56	.62	.71	.83	1.03	1.96
	75.00	.32	.34	.38	.42	.48	.58	1.05
	90.00	.20	.21	.23	.25	.28	.34	.61
	105.00	.12	.12	.13	.14	.16	.19	.34
	120.00	.05	.06	.06	.06	.07	.08	.15
.6667	60.00	.53	.59	.66	.76	.89	1.13	2.29
	75.00	.32	.35	.39	.43	.50	.61	1.15
	90.00	.20	.21	.23	.25	.29	.35	.64
	105.00	.12	.12	.13	.14	.16	.19	.35
	120.00	.05	.05	.06	.06	.07	.08	.15
1.0000	60.00	.62	.71	.81	.94	1.15	1.52	3.60
	75.00	.36	.39	.44	.49	.57	.72	1.49
	90.00	.21	.23	.25	.27	.31	.38	.74
	105.00	.12	.13	.13	.15	.16	.20	.38
	120.00	.05	.05	.06	.06	.07	.08	.15

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 40.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.52	.57	.64	.72	.83	1.04	5.70
	75.00	.36	.38	.42	.46	.53	.65	3.48
	90.00	.24	.26	.28	.30	.34	.42	2.23
	105.00	.16	.16	.17	.19	.21	.26	1.36
	120.00	.08	.09	.09	.10	.11	.13	.69
.3333	60.00	.53	.59	.66	.75	.89	1.16	6.74
	75.00	.35	.38	.41	.46	.54	.68	3.80
	90.00	.23	.24	.26	.29	.33	.42	2.29
	105.00	.14	.15	.16	.17	.20	.25	1.33
	120.00	.07	.08	.08	.09	.10	.12	.70
.5000	60.00	.54	.61	.69	.79	.95	1.27	7.59
	75.00	.35	.38	.42	.47	.55	.71	4.07
	90.00	.22	.24	.26	.29	.33	.43	2.36
	105.00	.14	.15	.16	.17	.19	.24	1.34
	120.00	.07	.07	.08	.08	.09	.12	.73
.6667	60.00	.57	.65	.74	.86	1.05	1.43	8.83
	75.00	.36	.39	.44	.49	.58	.76	4.45
	90.00	.23	.24	.25	.29	.34	.44	2.48
	105.00	.14	.15	.16	.17	.19	.24	1.35
	120.00	.07	.07	.08	.08	.09	.11	.77
1.0000	60.00	.70	.80	.93	1.12	1.41	2.06	13.90
	75.00	.40	.44	.50	.57	.69	.94	5.74
	90.00	.24	.26	.29	.32	.38	.49	2.88
	105.00	.14	.15	.16	.18	.20	.26	1.57
	120.00	.07	.07	.08	.08	.09	.12	.89

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 40.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.56	.62	.69	.79	.94	1.32	9.92
	75.00	.38	.42	.46	.51	.60	.83	6.05
	90.00	.27	.29	.31	.35	.40	.56	3.89
	105.00	.18	.19	.20	.22	.26	.36	2.41
	120.00	.10	.11	.12	.13	.14	.21	1.29
.3333	60.00	.57	.64	.72	.84	1.03	1.55	11.73
	75.00	.38	.41	.46	.52	.62	.90	6.61
	90.00	.25	.27	.30	.33	.40	.57	3.98
	105.00	.16	.17	.19	.21	.24	.35	2.33
	120.00	.09	.10	.10	.11	.13	.19	1.32
.5000	60.00	.59	.67	.77	.90	1.12	1.76	13.22
	75.00	.38	.42	.47	.54	.65	.97	7.09
	90.00	.25	.27	.30	.34	.40	.59	4.11
	105.00	.16	.17	.18	.20	.24	.35	2.33
	120.00	.09	.09	.10	.11	.13	.19	1.37
.6667	60.00	.63	.72	.83	.99	1.25	2.05	15.32
	75.00	.40	.44	.49	.57	.69	1.06	7.75
	90.00	.26	.28	.30	.35	.41	.62	4.32
	105.00	.16	.17	.18	.20	.24	.36	2.37
	120.00	.09	.09	.10	.11	.12	.19	1.44
1.0000	60.00	.79	.92	1.09	1.35	1.80	3.27	24.20
	75.00	.45	.50	.57	.67	.85	1.38	9.99
	90.00	.28	.30	.33	.38	.46	.72	5.01
	105.00	.17	.18	.19	.22	.26	.39	2.76
	120.00	.09	.09	.10	.11	.13	.19	1.68

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 40.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.59	.66	.75	.87	1.08	1.93	14.14
	75.00	.42	.46	.50	.58	.70	1.22	8.63
	90.00	.30	.32	.35	.40	.48	.83	5.55
	105.00	.20	.22	.24	.27	.32	.75	3.43
	120.00	.13	.13	.14	.16	.19	.47	1.89
.3333	60.00	.61	.70	.80	.95	1.23	2.29	16.73
	75.00	.41	.46	.51	.59	.75	1.33	9.43
	90.00	.28	.31	.34	.39	.48	.65	5.68
	105.00	.19	.20	.22	.25	.31	.75	3.30
	120.00	.11	.12	.13	.14	.17	.44	1.94
.5000	60.00	.65	.74	.86	1.04	1.37	2.59	18.85
	75.00	.42	.47	.53	.62	.79	1.43	10.10
	90.00	.28	.31	.34	.39	.49	.88	5.87
	105.00	.19	.20	.22	.25	.31	.76	3.31
	120.00	.11	.12	.13	.14	.17	.44	2.01
.6667	60.00	.70	.80	.95	1.16	1.57	3.02	21.52
	75.00	.44	.49	.56	.66	.85	1.57	11.04
	90.00	.29	.32	.35	.41	.51	.93	6.15
	105.00	.19	.20	.22	.25	.31	.79	3.39
	120.00	.11	.12	.12	.14	.17	.45	2.11
1.0000	60.00	.91	1.08	1.32	1.69	2.44	4.62	34.51
	75.00	.51	.58	.67	.81	1.09	2.03	14.25
	90.00	.32	.35	.39	.46	.59	1.08	7.14
	105.00	.20	.21	.23	.27	.33	1.15	3.96
	120.00	.11	.12	.13	.14	.18	.50	2.46

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 40.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.63	.71	.82	.97	1.31	2.55	18.36
	75.00	.45	.50	.56	.65	.85	1.61	11.21
	90.00	.33	.36	.40	.46	.59	1.10	7.20
	105.00	.23	.25	.28	.32	.42	1.22	4.46
	120.00	.15	.16	.18	.20	.26	.77	2.49
.3333	60.00	.67	.76	.90	1.10	1.54	3.02	21.72
	75.00	.45	.51	.58	.69	.93	1.76	12.20
	90.00	.32	.35	.39	.46	.61	1.13	7.37
	105.00	.22	.23	.26	.30	.41	1.22	4.29
	120.00	.14	.15	.16	.18	.25	.76	2.56
.5000	60.00	.71	.82	.97	1.22	1.73	3.42	24.48
	75.00	.47	.52	.60	.72	.99	1.89	13.12
	90.00	.32	.35	.39	.47	.63	1.17	7.62
	105.00	.21	.23	.26	.30	.41	1.25	4.29
	120.00	.13	.14	.16	.18	.24	.75	2.65
.6667	60.00	.77	.91	1.09	1.39	2.01	3.99	28.47
	75.00	.49	.55	.64	.78	1.08	2.07	14.34
	90.00	.33	.36	.41	.48	.66	1.23	7.95
	105.00	.22	.23	.26	.30	.42	1.30	4.42
	120.00	.13	.14	.16	.18	.24	.78	2.78
1.0000	60.00	1.07	1.30	1.64	2.18	3.12	6.36	44.81
	75.00	.58	.67	.79	.99	1.39	2.69	18.50
	90.00	.36	.40	.46	.56	.77	1.44	9.27
	105.00	.23	.25	.28	.33	.46	2.09	5.15
	120.00	.14	.15	.16	.18	.25	1.28	3.25

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 40.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.68	.77	.90	1.11	1.60	3.16	22.58
	75.00	.49	.54	.62	.75	1.04	2.00	13.78
	90.00	.36	.40	.45	.53	.74	1.38	8.85
	105.00	.27	.29	.32	.38	1.91	1.69	5.48
	120.00	.18	.20	.22	.25	1.18	1.10	3.09
.3333	60.00	.73	.85	1.01	1.30	1.88	3.76	26.72
	75.00	.50	.56	.65	.81	1.13	2.19	15.06
	90.00	.35	.39	.45	.54	.76	1.42	9.07
	105.00	.25	.27	.31	.37	1.94	1.70	5.27
	120.00	.17	.18	.20	.23	1.21	1.08	3.17
.5000	60.00	.78	.92	1.12	1.47	2.11	4.25	30.10
	75.00	.52	.59	.69	.86	1.21	2.35	16.14
	90.00	.36	.40	.46	.56	.79	1.47	9.37
	105.00	.25	.27	.31	.37	2.00	1.73	5.28
	120.00	.16	.17	.19	.23	1.25	1.07	3.29
.6667	60.00	.87	1.03	1.28	1.71	2.45	4.96	35.02
	75.00	.55	.63	.74	.94	1.32	2.57	17.64
	90.00	.37	.41	.47	.59	.83	1.54	9.83
	105.00	.25	.27	.31	.38	2.10	1.80	5.44
	120.00	.16	.17	.19	.23	1.30	1.11	3.46
1.0000	60.00	1.29	1.58	2.04	2.68	3.81	7.91	55.11
	75.00	.66	.73	.94	1.22	1.69	3.34	22.76
	90.00	.41	.46	.54	.69	.97	1.80	11.40
	105.00	.27	.29	.34	.41	2.42	3.03	6.35
	120.00	.17	.18	.20	.24	1.50	1.89	4.03

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 40.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.73	.84	1.00	1.31	1.88	3.78	26.80
	75.00	.53	.60	.69	.88	1.23	2.39	16.36
	90.00	.40	.44	.51	.63	.89	1.65	10.52
	105.00	.30	.33	.37	.47	6.89	2.16	6.50
	120.00	.21	.23	.26	.33	4.41	1.43	3.69
.3333	60.00	.80	.94	1.16	1.54	2.22	4.49	31.71
	75.00	.55	.63	.74	.96	1.33	2.61	17.87
	90.00	.39	.44	.51	.65	.92	1.70	10.76
	105.00	.28	.31	.36	.46	7.03	2.17	6.26
	120.00	.20	.21	.24	.31	4.49	1.40	3.79
.5000	60.00	.87	1.04	1.31	1.74	2.49	5.08	35.73
	75.00	.57	.66	.79	1.03	1.43	2.81	19.15
	90.00	.40	.45	.53	.67	.95	1.76	11.12
	105.00	.28	.31	.36	.47	7.24	2.22	6.27
	120.00	.19	.21	.24	.31	4.63	1.40	3.93
.6667	60.00	.98	1.20	1.53	2.02	2.89	5.93	41.56
	75.00	.61	.71	.87	1.12	1.56	3.07	20.93
	90.00	.42	.47	.56	.71	1.00	1.85	11.67
	105.00	.29	.32	.37	.48	7.58	2.30	6.47
	120.00	.19	.21	.24	.31	4.85	1.45	4.13
1.0000	60.00	1.53	1.86	2.44	3.19	4.49	9.46	65.41
	75.00	.77	.91	1.13	1.45	2.00	3.99	27.01
	90.00	.47	.54	.65	.82	1.16	2.16	13.53
	105.00	.31	.35	.41	.54	8.74	3.97	7.55
	120.00	.20	.22	.25	.33	5.59	2.51	4.82

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 45.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.44	.48	.53	.59	.67	.81	1.42
	75.00	.28	.30	.32	.35	.40	.48	.82
	90.00	.17	.18	.19	.21	.23	.28	.49
	105.00	.10	.10	.10	.11	.12	.14	.27
	120.00	.03	.04	.04	.04	.04	.05	.10
.3333	60.00	.44	.49	.55	.62	.72	.90	1.72
	75.00	.27	.29	.32	.35	.40	.49	.91
	90.00	.16	.17	.18	.20	.22	.27	.51
	105.00	.09	.09	.09	.10	.11	.13	.26
	120.00	.03	.03	.03	.03	.04	.04	.09
.5000	60.00	.46	.51	.57	.66	.77	.98	1.99
	75.00	.27	.30	.33	.36	.42	.51	.99
	90.00	.16	.17	.18	.20	.23	.27	.53
	105.00	.08	.09	.09	.10	.11	.13	.25
	120.00	.03	.03	.03	.03	.04	.04	.09
.6667	60.00	.49	.55	.62	.72	.85	1.10	2.40
	75.00	.28	.31	.34	.38	.44	.55	1.11
	90.00	.16	.17	.19	.20	.23	.28	.56
	105.00	.08	.09	.09	.10	.11	.13	.26
	120.00	.03	.03	.03	.03	.04	.04	.09
1.0000	60.00	.62	.71	.82	.97	1.20	1.64	4.49
	75.00	.33	.36	.40	.46	.54	.69	1.54
	90.00	.18	.19	.21	.23	.26	.32	.68
	105.00	.09	.09	.10	.11	.12	.14	.30
	120.00	.03	.03	.03	.03	.04	.04	.09

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 45.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.46	.51	.57	.65	.75	.95	5.47
	75.00	.30	.33	.36	.40	.45	.57	3.17
	90.00	.19	.21	.22	.24	.28	.34	1.90
	105.00	.11	.12	.12	.13	.15	.19	1.04
	120.00	.05	.05	.05	.06	.06	.08	.52
.3333	60.00	.48	.53	.60	.69	.82	1.08	6.65
	75.00	.30	.32	.36	.40	.47	.60	3.52
	90.00	.18	.20	.21	.23	.27	.34	1.96
	105.00	.10	.11	.11	.12	.14	.18	1.01
	120.00	.04	.04	.05	.05	.05	.07	.49
.5000	60.00	.50	.56	.64	.74	.89	1.21	7.69
	75.00	.30	.33	.37	.41	.49	.63	3.82
	90.00	.18	.20	.21	.24	.27	.35	2.04
	105.00	.10	.11	.11	.12	.14	.17	1.03
	120.00	.04	.04	.04	.05	.05	.07	.51
.6667	60.00	.54	.61	.70	.82	1.01	1.40	9.29
	75.00	.32	.35	.39	.44	.52	.69	4.27
	90.00	.19	.20	.22	.24	.28	.36	2.17
	105.00	.10	.11	.11	.12	.14	.18	1.07
	120.00	.04	.04	.04	.05	.05	.07	.52
1.0000	60.00	.71	.83	.97	1.18	1.52	2.30	17.36
	75.00	.37	.41	.47	.54	.65	.90	5.97
	90.00	.21	.22	.24	.27	.32	.43	2.64
	105.00	.11	.11	.12	.13	.15	.20	1.26
	120.00	.04	.04	.05	.05	.05	.07	.58

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 45.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.50	.55	.62	.71	.85	1.18	9.52
	75.00	.33	.36	.39	.44	.52	.71	5.52
	90.00	.22	.23	.25	.28	.32	.44	3.31
	105.00	.13	.14	.15	.16	.19	.26	1.81
	120.00	.06	.07	.07	.08	.09	.12	.98
.3333	60.00	.52	.58	.66	.77	.95	1.41	11.58
	75.00	.33	.36	.40	.45	.54	.78	6.12
	90.00	.21	.22	.24	.27	.32	.45	3.41
	105.00	.12	.13	.14	.15	.18	.25	1.78
	120.00	.06	.06	.06	.07	.08	.11	.94
.5000	60.00	.54	.62	.71	.84	1.06	1.62	13.38
	75.00	.34	.37	.41	.48	.58	.84	6.66
	90.00	.21	.22	.25	.28	.33	.47	3.55
	105.00	.12	.13	.14	.15	.18	.25	1.81
	120.00	.06	.06	.06	.07	.08	.11	.94
.6667	60.00	.59	.68	.79	.95	1.22	1.96	16.17
	75.00	.35	.39	.44	.51	.62	.94	7.44
	90.00	.21	.23	.25	.29	.34	.50	3.78
	105.00	.12	.13	.14	.15	.18	.26	1.88
	120.00	.05	.06	.06	.07	.08	.11	.97
1.0000	60.00	.83	.97	1.17	1.47	2.02	3.60	30.22
	75.00	.42	.48	.54	.64	.81	1.30	10.39
	90.00	.24	.26	.29	.33	.40	.61	4.60
	105.00	.13	.14	.15	.17	.20	.29	2.23
	120.00	.06	.06	.06	.07	.08	.11	1.13

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 45.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.53	.60	.68	.79	.98	1.62	13.58
	75.00	.36	.39	.44	.50	.61	.98	7.87
	90.00	.24	.26	.29	.32	.39	.64	4.71
	105.00	.15	.16	.18	.20	.24	1.13	2.58
	120.00	.08	.09	.09	.10	.12	.58	1.43
.3333	60.00	.56	.64	.74	.88	1.13	1.97	16.51
	75.00	.36	.40	.45	.52	.65	1.08	8.73
	90.00	.23	.25	.28	.32	.39	.67	4.86
	105.00	.14	.15	.16	.18	.23	1.16	2.54
	120.00	.07	.08	.08	.09	.11	.59	1.37
.5000	60.00	.60	.69	.80	.97	1.28	2.27	19.08
	75.00	.37	.41	.47	.55	.70	1.17	9.50
	90.00	.24	.26	.28	.33	.40	.70	5.06
	105.00	.14	.15	.16	.18	.23	1.21	2.57
	120.00	.07	.08	.08	.09	.11	.62	1.41
.6667	60.00	.66	.77	.91	1.12	1.52	2.73	23.06
	75.00	.39	.44	.50	.59	.77	1.31	10.61
	90.00	.24	.26	.29	.34	.43	.74	5.39
	105.00	.14	.15	.17	.19	.23	1.28	2.69
	120.00	.07	.07	.08	.09	.11	.65	1.46
1.0000	60.00	.98	1.18	1.47	1.94	2.76	5.02	43.09
	75.00	.49	.55	.64	.78	1.05	1.82	14.82
	90.00	.28	.30	.34	.40	.51	.91	6.55
	105.00	.16	.17	.18	.21	.26	1.55	1.71
	120.00	.07	.08	.08	.09	.11	.79	1.72

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 45.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.57	.65	.74	.88	1.16	2.08	17.63
	75.00	.39	.43	.48	.56	.72	1.26	10.22
	90.00	.27	.29	.32	.37	.47	.86	6.12
	105.00	.18	.19	.21	.24	.30	3.23	3.36
	120.00	.10	.11	.12	.13	.16	1.78	1.88
.3333	60.00	.61	.70	.83	1.01	1.40	2.53	21.44
	75.00	.40	.44	.50	.60	.80	1.39	11.33
	90.00	.26	.29	.32	.37	.49	.89	6.31
	105.00	.17	.18	.20	.23	.29	3.31	3.31
	120.00	.09	.10	.11	.12	.15	1.82	1.83
.5000	60.00	.66	.77	.91	1.14	1.61	2.91	24.78
	75.00	.41	.46	.53	.64	.87	1.51	12.33
	90.00	.27	.29	.33	.39	.51	.93	6.58
	105.00	.17	.18	.20	.23	.30	3.44	3.34
	120.00	.09	.10	.10	.12	.15	1.90	1.87
.6667	60.00	.74	.87	1.06	1.35	1.93	3.51	29.95
	75.00	.44	.50	.58	.70	.96	1.68	13.78
	90.00	.28	.30	.34	.41	.55	.99	7.00
	105.00	.17	.18	.20	.23	.31	3.65	3.51
	120.00	.09	.10	.10	.12	.15	2.01	1.93
1.0000	60.00	1.21	1.49	1.90	2.55	3.50	6.45	55.95
	75.00	.56	.64	.76	.96	1.33	2.34	19.24
	90.00	.32	.35	.40	.49	.67	1.22	8.51
	105.00	.18	.20	.22	.26	.35	4.42	2.18
	120.00	.09	.10	.11	.12	.16	2.43	2.27

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 45.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.61	.70	.82	1.00	1.41	2.55	21.69
	75.00	.43	.47	.54	.64	.88	1.53	12.56
	90.00	.30	.33	.37	.43	.59	1.07	7.53
	105.00	.20	.22	.25	.29	.42	5.32	4.14
	120.00	.13	.13	.15	.17	.25	2.98	2.33
.3333	60.00	.67	.78	.93	1.19	1.70	3.08	26.37
	75.00	.44	.49	.57	.70	.97	1.70	13.94
	90.00	.30	.33	.37	.44	.61	1.11	7.76
	105.00	.19	.21	.23	.28	.42	5.46	4.00
	120.00	.11	.12	.13	.15	.23	3.06	2.28
.5000	60.00	.73	.86	1.05	1.37	1.95	3.55	30.47
	75.00	.46	.52	.61	.76	1.05	1.84	15.17
	90.00	.30	.33	.38	.46	.64	1.16	8.09
	105.00	.19	.21	.24	.28	.41	5.68	4.12
	120.00	.11	.12	.13	.15	.23	3.18	2.32
.6667	60.00	.84	1.00	1.25	1.66	2.34	4.28	36.83
	75.00	.50	.57	.67	.85	1.17	2.05	16.95
	90.00	.31	.35	.40	.49	.68	1.24	8.61
	105.00	.20	.21	.24	.29	.44	6.03	4.32
	120.00	.11	.12	.13	.15	.24	3.37	2.40
1.0000	60.00	1.47	1.82	2.33	3.16	4.25	7.88	68.82
	75.00	.65	.76	.93	1.19	1.61	2.85	23.67
	90.00	.37	.42	.48	.60	.84	1.52	10.47
	105.00	.22	.24	.27	.33	.53	7.28	2.66
	120.00	.12	.13	.14	.17	.26	4.07	2.86

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 45.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.66	.76	.91	1.16	1.65	3.01	25.74
	75.00	.46	.52	.60	.75	1.03	1.81	14.91
	90.00	.33	.37	.42	.51	.71	1.29	8.93
	105.00	.23	.26	.29	.35	1.48	7.42	4.91
	120.00	.15	.16	.18	.22	.95	4.18	2.77
.3333	60.00	.73	.87	1.07	1.41	2.00	3.64	31.30
	75.00	.48	.55	.65	.83	1.14	2.00	16.54
	90.00	.33	.37	.43	.53	.73	1.33	9.21
	105.00	.22	.24	.28	.34	1.53	7.61	4.75
	120.00	.14	.15	.17	.20	.91	4.29	2.72
.5000	60.00	.81	.98	1.23	1.63	2.29	4.20	36.17
	75.00	.51	.59	.70	.91	1.23	2.18	18.00
	90.00	.34	.38	.44	.55	.77	1.40	9.60
	105.00	.22	.25	.28	.35	1.59	7.92	4.89
	120.00	.14	.15	.16	.20	.93	4.46	2.77
.6667	60.00	.95	1.17	1.48	1.98	2.75	5.06	43.72
	75.00	.56	.65	.79	1.01	1.37	2.43	20.12
	90.00	.36	.40	.47	.59	.82	1.49	10.21
	105.00	.23	.25	.29	.37	1.70	8.40	5.14
	120.00	.14	.15	.17	.20	.96	4.73	2.88
1.0000	60.00	1.73	2.15	2.77	3.77	4.99	9.30	81.69
	75.00	.76	.90	1.10	1.43	1.90	3.37	28.10
	90.00	.43	.49	.58	.72	1.00	1.82	12.42
	105.00	.26	.28	.33	.42	1.36	10.15	3.13
	120.00	.15	.16	.18	.22	1.12	5.72	3.42

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 50.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.38	.42	.47	.52	.60	.73	1.34
	75.00	.23	.25	.27	.30	.34	.40	.73
	90.00	.13	.14	.15	.16	.18	.22	.40
	105.00	.06	.07	.07	.07	.08	.09	.19
	120.00	.01	.01	.01	.02	.02	.02	.04
.3333	60.00	.39	.44	.49	.56	.65	.82	1.67
	75.00	.23	.25	.27	.30	.34	.42	.83
	90.00	.13	.13	.14	.15	.17	.21	.42
	105.00	.06	.06	.06	.07	.07	.09	.18
	120.00	.01	.01	.01	.01	.02	.02	.04
.5000	60.00	.42	.47	.53	.60	.71	.91	1.99
	75.00	.23	.26	.28	.31	.36	.44	.91
	90.00	.13	.13	.14	.16	.18	.22	.44
	105.00	.06	.06	.06	.07	.07	.09	.19
	120.00	.01	.01	.01	.01	.02	.02	.04
.6667	60.00	.46	.51	.58	.68	.81	1.06	2.52
	75.00	.25	.27	.30	.33	.39	.49	1.05
	90.00	.13	.14	.15	.16	.18	.23	.48
	105.00	.06	.06	.06	.07	.08	.09	.19
	120.00	.01	.01	.01	.01	.02	.02	.04
1.0000	60.00	.65	.75	.87	1.04	1.31	1.84	6.13
	75.00	.31	.34	.37	.43	.50	.65	1.62
	90.00	.15	.16	.17	.19	.22	.27	.62
	105.00	.06	.07	.07	.08	.08	.10	.22
	120.00	.01	.01	.01	.01	.02	.02	.04

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 50.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.41	.46	.51	.58	.67	.86	5.17
	75.00	.25	.28	.30	.33	.38	.48	2.83
	90.00	.15	.16	.17	.19	.22	.27	1.56
	105.00	.08	.08	.09	.09	.10	.13	.74
	120.00	.02	.03	.03	.03	.03	.04	.22
.3333	60.00	.43	.48	.54	.63	.75	1.00	6.47
	75.00	.25	.28	.30	.34	.40	.52	3.19
	90.00	.14	.15	.17	.18	.21	.27	1.62
	105.00	.07	.08	.08	.09	.10	.12	.71
	120.00	.02	.02	.02	.02	.03	.03	.23
.5000	60.00	.46	.52	.59	.69	.83	1.14	7.69
	75.00	.26	.29	.32	.36	.42	.56	3.53
	90.00	.15	.16	.17	.19	.22	.28	1.71
	105.00	.07	.07	.08	.09	.10	.12	.72
	120.00	.02	.02	.02	.02	.03	.03	.25
.6667	60.00	.51	.58	.66	.78	.97	1.36	9.74
	75.00	.28	.31	.34	.39	.46	.62	4.05
	90.00	.15	.16	.18	.19	.23	.29	1.85
	105.00	.07	.08	.08	.09	.10	.12	.75
	120.00	.02	.02	.02	.02	.03	.03	.27
1.0000	60.00	.76	.89	1.07	1.31	1.74	2.78	23.69
	75.00	.35	.39	.44	.51	.62	.87	6.26
	90.00	.18	.19	.21	.23	.27	.36	2.38
	105.00	.08	.08	.09	.10	.11	.14	.57
	120.00	.02	.02	.02	.02	.03	.03	.35

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 50.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.44	.49	.56	.64	.76	1.06	9.00
	75.00	.28	.30	.34	.38	.44	.60	4.93
	90.00	.17	.18	.20	.22	.26	.35	2.72
	105.00	.09	.10	.11	.11	.13	.18	1.29
	120.00	.04	.04	.04	.04	.05	.06	.47
.3333	60.00	.47	.53	.60	.71	.87	1.29	11.26
	75.00	.28	.31	.34	.39	.47	.67	5.56
	90.00	.17	.18	.19	.22	.26	.36	2.83
	105.00	.09	.09	.10	.11	.12	.17	1.24
	120.00	.03	.03	.03	.04	.04	.06	.49
.5000	60.00	.50	.57	.66	.79	.99	1.51	13.39
	75.00	.29	.32	.36	.41	.50	.73	6.15
	90.00	.17	.18	.20	.22	.26	.38	2.98
	105.00	.09	.09	.10	.11	.12	.17	1.26
	120.00	.03	.03	.03	.04	.04	.06	.52
.6667	60.00	.56	.65	.76	.92	1.18	1.90	16.95
	75.00	.31	.35	.39	.45	.56	.83	7.05
	90.00	.18	.19	.21	.23	.28	.40	3.22
	105.00	.09	.09	.10	.11	.13	.18	1.33
	120.00	.03	.03	.03	.04	.04	.06	.57
1.0000	60.00	.93	1.11	1.37	1.76	2.52	4.71	41.25
	75.00	.41	.46	.52	.62	.79	1.28	10.90
	90.00	.21	.23	.25	.28	.34	.52	4.15
	105.00	.10	.11	.11	.13	.15	.21	1.73
	120.00	.03	.03	.04	.04	.04	.06	.74

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 50.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.48	.53	.61	.71	.88	1.45	12.83
	75.00	.31	.34	.37	.43	.52	.83	7.02
	90.00	.19	.21	.23	.26	.31	.50	3.88
	105.00	.11	.12	.13	.14	.17	.48	1.84
	120.00	.05	.05	.05	.06	.07	.17	.72
.3333	60.00	.51	.58	.68	.81	1.04	1.82	16.06
	75.00	.31	.35	.39	.45	.56	.94	7.92
	90.00	.19	.21	.23	.26	.31	.52	4.03
	105.00	.10	.11	.12	.13	.16	.49	1.77
	120.00	.04	.05	.05	.05	.06	.18	.75
.5000	60.00	.56	.64	.75	.91	1.20	2.16	19.09
	75.00	.33	.36	.41	.48	.61	1.04	8.77
	90.00	.19	.21	.23	.27	.33	.55	4.25
	105.00	.11	.11	.12	.13	.16	.52	1.79
	120.00	.04	.04	.05	.05	.06	.19	.79
.6667	60.00	.63	.74	.88	1.09	1.49	2.75	24.17
	75.00	.35	.40	.45	.53	.69	1.19	10.05
	90.00	.20	.22	.24	.28	.35	.59	4.59
	105.00	.11	.11	.12	.14	.17	.56	1.91
	120.00	.04	.05	.05	.05	.06	.20	.86
1.0000	60.00	1.22	1.49	1.86	2.41	3.71	6.82	58.81
	75.00	.47	.54	.63	.77	1.03	1.85	15.54
	90.00	.24	.27	.30	.35	.44	.77	5.92
	105.00	.12	.13	.14	.16	.20	.71	2.49
	120.00	.05	.05	.05	.06	.07	.26	1.12

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 50.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.51	.58	.67	.79	1.03	1.90	16.66
	75.00	.34	.37	.42	.48	.61	1.09	9.12
	90.00	.22	.24	.26	.30	.38	.66	5.04
	105.00	.13	.14	.15	.17	.22	3.03	2.39
	120.00	.06	.07	.07	.08	.10	1.43	.97
.3333	60.00	.56	.65	.76	.93	1.27	2.38	20.85
	75.00	.35	.39	.44	.52	.69	1.23	10.29
	90.00	.22	.24	.26	.30	.39	.69	5.23
	105.00	.12	.13	.15	.17	.21	3.13	2.30
	120.00	.06	.06	.07	.07	.09	1.48	1.01
.5000	60.00	.62	.72	.86	1.07	1.52	2.83	24.79
	75.00	.37	.41	.47	.57	.76	1.36	11.39
	90.00	.22	.24	.27	.32	.41	.73	5.52
	105.00	.13	.13	.15	.17	.22	3.25	2.32
	120.00	.06	.06	.06	.07	.09	1.55	1.07
.6667	60.00	.72	.85	1.03	1.33	1.94	3.60	31.38
	75.00	.40	.45	.52	.64	.87	1.56	13.06
	90.00	.23	.26	.29	.34	.45	.79	5.96
	105.00	.13	.14	.15	.17	.22	3.55	2.50
	120.00	.06	.06	.07	.07	.09	1.67	1.16
1.0000	60.00	1.58	1.92	2.38	3.06	4.90	8.93	76.37
	75.00	.55	.64	.76	.96	1.37	2.43	20.19
	90.00	.28	.32	.36	.43	.58	1.03	7.68
	105.00	.15	.16	.18	.20	.27	4.53	3.24
	120.00	.06	.07	.07	.08	.10	2.13	1.51

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 50.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.55	.63	.74	.90	1.26	2.34	20.49
	75.00	.37	.41	.47	.55	.75	1.34	11.22
	90.00	.25	.27	.30	.35	.47	.83	6.20
	105.00	.15	.17	.18	.21	.29	5.59	2.94
	120.00	.08	.09	.09	.11	.14	2.69	1.22
.3333	60.00	.61	.72	.86	1.09	1.58	2.94	25.65
	75.00	.38	.43	.50	.61	.85	1.52	12.65
	90.00	.24	.27	.30	.36	.49	.86	6.44
	105.00	.15	.16	.18	.21	.29	5.77	2.82
	120.00	.07	.08	.09	.10	.13	2.78	1.27
.5000	60.00	.69	.81	.99	1.28	1.89	3.50	30.49
	75.00	.41	.47	.54	.67	.94	1.68	14.00
	90.00	.25	.28	.32	.38	.52	.91	6.78
	105.00	.15	.16	.18	.21	.30	6.07	2.86
	120.00	.07	.08	.08	.10	.14	2.92	1.34
.6667	60.00	.82	.99	1.24	1.61	2.41	4.45	38.60
	75.00	.45	.52	.61	.77	1.09	1.93	16.06
	90.00	.27	.30	.34	.41	.56	.99	7.34
	105.00	.15	.17	.18	.22	.31	6.54	3.08
	120.00	.07	.08	.09	.10	.14	3.14	1.45
1.0000	60.00	1.94	2.35	2.90	3.72	6.09	11.04	93.93
	75.00	.66	.77	.93	1.16	1.70	3.00	24.63
	90.00	.33	.38	.44	.54	.73	1.29	9.45
	105.00	.18	.19	.22	.26	.38	6.35	4.00
	120.00	.08	.09	.10	.11	.16	4.01	1.89

COEFFICIENTS OF ACTIVE EARTH PRESSURE

 * PHI= 50.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KA-VALUES ---						
0	60.00	.60	.69	.82	1.03	1.50	2.79	24.32
	75.00	.40	.45	.52	.64	.90	1.60	13.31
	90.00	.28	.30	.34	.41	.56	.99	7.36
	105.00	.18	.19	.22	.26	.49	8.14	3.49
	120.00	.10	.11	.12	.14	.29	3.94	1.46
.3333	60.00	.68	.80	.98	1.28	1.89	3.50	30.44
	75.00	.43	.49	.57	.72	1.02	1.81	15.02
	90.00	.28	.31	.35	.43	.59	1.04	7.64
	105.00	.17	.19	.21	.26	.51	8.41	3.35
	120.00	.09	.10	.11	.13	.29	4.07	1.53
.5000	60.00	.77	.93	1.16	1.51	2.26	4.17	36.19
	75.00	.46	.53	.63	.79	1.13	2.00	16.62
	90.00	.29	.32	.37	.46	.62	1.10	8.05
	105.00	.17	.19	.22	.26	.54	8.84	3.39
	120.00	.09	.10	.11	.13	.29	4.28	1.61
.6667	60.00	.95	1.17	1.46	1.89	2.88	5.30	45.82
	75.00	.51	.60	.72	.90	1.30	2.30	19.06
	90.00	.31	.35	.40	.49	.67	1.19	8.71
	105.00	.18	.20	.23	.28	.58	9.53	3.66
	120.00	.09	.10	.11	.13	.30	4.61	1.75
1.0000	60.00	2.31	2.78	3.42	4.37	7.28	13.15	111.49
	75.00	.78	.92	1.10	1.37	2.03	3.58	29.47
	90.00	.39	.45	.52	.64	.87	1.55	11.22
	105.00	.21	.23	.27	.33	.76	12.16	4.76
	120.00	.10	.11	.13	.15	.36	5.89	2.28

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 20.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.74	1.88	2.02	2.17	2.32	2.47	2.61
	75.00	1.78	1.93	2.07	2.22	2.37	2.53	2.68
	90.00	2.04	2.21	2.38	2.55	2.73	2.91	3.08
	105.00	2.61	2.83	3.06	3.29	3.53	3.77	4.01
	120.00	3.79	4.13	4.49	4.85	5.22	5.60	5.98
.3333	60.00	1.91	2.10	2.30	2.50	2.70	2.91	3.11
	75.00	2.02	2.22	2.42	2.63	2.84	3.04	3.26
	90.00	2.40	2.62	2.86	3.10	3.35	3.60	3.85
	105.00	3.16	3.47	3.79	4.11	4.45	4.80	5.14
	120.00	4.75	5.24	5.75	6.27	6.81	7.37	7.93
.5000	60.00	2.00	2.22	2.44	2.67	2.90	3.14	3.37
	75.00	2.16	2.38	2.61	2.84	3.08	3.32	3.56
	90.00	2.58	2.85	3.12	3.39	3.68	3.96	4.26
	105.00	3.45	3.81	4.18	4.56	4.96	5.35	5.76
	120.00	5.27	5.85	6.44	7.05	7.69	8.34	9.00
.6667	60.00	2.09	2.34	2.59	2.84	3.10	3.37	3.63
	75.00	2.29	2.54	2.80	3.06	3.33	3.60	3.88
	90.00	2.78	3.07	3.38	3.69	4.02	4.35	4.68
	105.00	3.76	4.17	4.59	5.03	5.48	5.94	6.41
	120.00	5.82	6.48	7.16	7.87	8.60	9.36	10.12
1.0000	60.00	2.29	2.58	2.88	3.19	3.50	3.83	4.15
	75.00	2.56	2.86	3.17	3.49	3.82	4.16	4.51
	90.00	3.17	3.54	3.91	4.30	4.71	5.12	5.55
	105.00	4.39	4.90	5.43	5.99	6.55	7.14	7.73
	120.00	6.96	7.80	8.67	9.57	10.50	11.46	12.44

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 20.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.70	1.85	2.00	2.15	2.30	2.46	2.62
	75.00	1.74	1.88	2.03	2.19	2.35	2.50	2.66
	90.00	1.97	2.14	2.32	2.50	2.68	2.86	3.05
	105.00	2.50	2.73	2.96	3.20	3.44	3.69	3.94
	120.00	3.59	3.95	4.31	4.68	5.06	5.45	5.86
.3333	60.00	1.85	2.05	2.25	2.46	2.67	2.89	3.10
	75.00	1.95	2.16	2.36	2.57	2.79	3.01	3.23
	90.00	2.30	2.53	2.77	3.02	3.27	3.53	3.80
	105.00	3.01	3.33	3.65	3.99	4.33	4.69	5.05
	120.00	4.50	5.00	5.51	6.05	6.60	7.18	7.76
.5000	60.00	1.93	2.16	2.39	2.62	2.86	3.11	3.35
	75.00	2.07	2.30	2.54	2.78	3.02	3.27	3.53
	90.00	2.47	2.74	3.02	3.30	3.59	3.89	4.20
	105.00	3.29	3.65	4.03	4.42	4.82	5.23	5.66
	120.00	4.99	5.57	6.17	6.80	7.45	8.12	8.81
.6667	60.00	2.02	2.27	2.53	2.79	3.06	3.33	3.61
	75.00	2.20	2.45	2.72	2.99	3.26	3.54	3.83
	90.00	2.65	2.96	3.27	3.59	3.92	4.26	4.61
	105.00	3.57	3.99	4.42	4.87	5.33	5.80	6.29
	120.00	5.51	6.17	6.87	7.59	8.34	9.12	9.91
1.0000	60.00	2.20	2.49	2.80	3.12	3.44	3.78	4.12
	75.00	2.45	2.76	3.07	3.40	3.74	4.09	4.45
	90.00	3.02	3.39	3.78	4.18	4.59	5.02	5.46
	105.00	4.17	4.69	5.23	5.79	6.37	6.98	7.60
	120.00	6.57	7.42	8.30	9.22	10.18	11.17	12.19

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 20.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.66	1.82	1.97	2.13	2.29	2.45	2.61
	75.00	1.68	1.83	1.99	2.15	2.31	2.47	2.64
	90.00	1.89	2.07	2.25	2.44	2.62	2.81	3.01
	105.00	2.38	2.61	2.85	3.10	3.35	3.60	3.87
	120.00	3.39	3.76	4.13	4.51	4.90	5.30	5.72
.3333	60.00	1.79	2.00	2.20	2.42	2.64	2.86	3.08
	75.00	1.88	2.08	2.30	2.52	2.74	2.96	3.19
	90.00	2.19	2.43	2.68	2.94	3.20	3.46	3.74
	105.00	2.85	3.18	3.51	3.86	4.21	4.58	4.95
	120.00	4.22	4.74	5.27	5.82	6.39	6.98	7.58
.5000	60.00	1.86	2.09	2.33	2.57	2.82	3.07	3.33
	75.00	1.98	2.22	2.46	2.71	2.96	3.22	3.48
	90.00	2.35	2.63	2.91	3.20	3.50	3.81	4.13
	105.00	3.11	3.48	3.87	4.27	4.68	5.11	5.54
	120.00	4.68	5.28	5.90	6.54	7.21	7.90	8.60
.6667	60.00	1.94	2.19	2.46	2.73	3.01	3.29	3.58
	75.00	2.10	2.36	2.63	2.91	3.19	3.49	3.78
	90.00	2.52	2.83	3.15	3.48	3.82	4.17	4.54
	105.00	3.37	3.80	4.24	4.70	5.17	5.66	6.16
	120.00	5.16	5.85	6.56	7.30	8.07	8.86	9.68
1.0000	60.00	2.10	2.40	2.72	3.04	3.37	3.72	4.07
	75.00	2.33	2.64	2.97	3.31	3.66	4.02	4.39
	90.00	2.86	3.24	3.64	4.05	4.47	4.91	5.37
	105.00	3.92	4.46	5.01	5.58	6.18	6.80	7.44
	120.00	6.16	7.02	7.93	8.87	9.85	10.86	11.92

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 20.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.62	1.78	1.94	2.11	2.27	2.44	2.61
	75.00	1.62	1.78	1.94	2.11	2.27	2.44	2.62
	90.00	1.80	1.99	2.18	2.37	2.57	2.76	2.96
	105.00	2.25	2.50	2.75	3.00	3.25	3.52	3.79
	120.00	3.18	3.56	3.94	4.33	4.73	5.15	5.57
.3333	60.00	1.73	1.94	2.15	2.37	2.60	2.83	3.06
	75.00	1.79	2.01	2.23	2.45	2.68	2.92	3.15
	90.00	2.08	2.33	2.59	2.85	3.12	3.39	3.67
	105.00	2.68	3.02	3.37	3.72	4.08	4.46	4.84
	120.00	3.94	4.47	5.02	5.58	6.16	6.77	7.39
.5000	60.00	1.79	2.02	2.26	2.52	2.77	3.03	3.30
	75.00	1.89	2.13	2.38	2.64	2.90	3.16	3.44
	90.00	2.23	2.51	2.80	3.10	3.41	3.73	4.06
	105.00	2.92	3.30	3.70	4.11	4.54	4.97	5.42
	120.00	4.36	4.98	5.61	6.26	6.95	7.66	8.39
.6667	60.00	1.85	2.11	2.39	2.66	2.95	3.24	3.54
	75.00	1.99	2.26	2.54	2.83	3.12	3.42	3.73
	90.00	2.38	2.70	3.03	3.37	3.72	4.08	4.45
	105.00	3.16	3.60	4.06	4.52	5.01	5.51	6.03
	120.00	4.80	5.51	6.23	6.99	7.77	8.59	9.44
1.0000	60.00	1.99	2.30	2.63	2.96	3.30	3.66	4.02
	75.00	2.20	2.53	2.86	3.21	3.56	3.94	4.32
	90.00	2.69	3.08	3.49	3.91	4.34	4.80	5.26
	105.00	3.67	4.21	4.78	5.37	5.98	6.62	7.28
	120.00	5.72	6.61	7.53	8.49	9.49	10.54	11.62

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 20.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.56	1.74	1.91	2.08	2.25	2.42	2.60
	75.00	1.56	1.72	1.89	2.06	2.23	2.41	2.59
	90.00	1.71	1.91	2.10	2.30	2.50	2.71	2.92
	105.00	2.11	2.37	2.63	2.89	3.16	3.43	3.70
	120.00	2.95	3.35	3.74	4.14	4.55	4.98	5.42
.3333	60.00	1.65	1.87	2.09	2.32	2.55	2.79	3.04
	75.00	1.70	1.92	2.15	2.39	2.62	2.86	3.11
	90.00	1.95	2.22	2.48	2.75	3.03	3.31	3.60
	105.00	2.50	2.85	3.21	3.57	3.95	4.34	4.73
	120.00	3.63	4.18	4.75	5.32	5.92	6.54	7.18
.5000	60.00	1.70	1.94	2.19	2.45	2.72	2.99	3.27
	75.00	1.78	2.04	2.30	2.56	2.83	3.10	3.38
	90.00	2.08	2.38	2.69	2.99	3.31	3.64	3.98
	105.00	2.71	3.11	3.52	3.95	4.38	4.83	5.30
	120.00	4.01	4.65	5.30	5.98	6.68	7.41	8.16
.6667	60.00	1.75	2.02	2.30	2.59	2.89	3.19	3.50
	75.00	1.87	2.16	2.44	2.74	3.04	3.35	3.67
	90.00	2.22	2.56	2.90	3.25	3.61	3.98	4.36
	105.00	2.93	3.39	3.85	4.34	4.83	5.35	5.89
	120.00	4.41	5.14	5.89	6.66	7.48	8.32	9.18
1.0000	60.00	1.87	2.20	2.53	2.87	3.22	3.59	3.97
	75.00	2.06	2.40	2.74	3.10	3.47	3.85	4.24
	90.00	2.50	2.91	3.32	3.76	4.20	4.67	5.15
	105.00	3.39	3.95	4.53	5.14	5.77	6.42	7.10
	120.00	5.24	6.16	7.11	8.10	9.13	10.20	11.32

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 20.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.49	1.68	1.86	2.04	2.22	2.40	2.58
	75.00	1.48	1.66	1.83	2.01	2.19	2.37	2.56
	90.00	1.61	1.81	2.02	2.23	2.44	2.65	2.86
	105.00	1.95	2.23	2.50	2.77	3.05	3.33	3.62
	120.00	2.70	3.12	3.53	3.95	4.37	4.81	5.26
.3333	60.00	1.55	1.79	2.03	2.26	2.50	2.75	3.00
	75.00	1.59	1.83	2.07	2.31	2.56	2.81	3.06
	90.00	1.81	2.09	2.37	2.65	2.94	3.23	3.53
	105.00	2.30	2.67	3.04	3.42	3.81	4.20	4.61
	120.00	3.30	3.88	4.46	5.06	5.67	6.31	6.97
.5000	60.00	1.59	1.86	2.12	2.38	2.66	2.94	3.23
	75.00	1.66	1.93	2.20	2.47	2.75	3.04	3.33
	90.00	1.92	2.25	2.56	2.88	3.21	3.54	3.89
	105.00	2.48	2.91	3.34	3.77	4.22	4.68	5.16
	120.00	3.63	4.31	4.98	5.67	6.39	7.14	7.92
.6667	60.00	1.63	1.92	2.21	2.51	2.82	3.13	3.45
	75.00	1.73	2.04	2.34	2.64	2.95	3.27	3.60
	90.00	2.05	2.40	2.76	3.12	3.49	3.87	4.27
	105.00	2.68	3.16	3.64	4.14	4.65	5.18	5.73
	120.00	3.98	4.75	5.53	6.33	7.15	8.02	8.91
1.0000	60.00	1.73	2.08	2.42	2.77	3.14	3.51	3.90
	75.00	1.90	2.28	2.61	2.98	3.36	3.76	4.16
	90.00	2.29	2.72	3.15	3.60	4.06	4.54	5.04
	105.00	3.08	3.68	4.28	4.90	5.54	6.22	6.92
	120.00	4.71	5.69	6.66	7.68	8.73	9.84	10.99

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 20.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.39	1.61	1.81	2.00	2.19	2.37	2.56
	75.00	1.37	1.58	1.77	1.95	2.14	2.33	2.52
	90.00	1.48	1.71	1.93	2.15	2.37	2.59	2.81
	105.00	1.77	2.08	2.37	2.65	2.94	3.23	3.52
	120.00	2.40	2.87	3.31	3.74	4.18	4.63	5.10
.3333	60.00	1.43	1.70	1.95	2.20	2.45	2.70	2.97
	75.00	1.46	1.73	1.98	2.23	2.48	2.74	3.01
	90.00	1.64	1.95	2.25	2.54	2.84	3.14	3.45
	105.00	2.05	2.47	2.86	3.25	3.65	4.06	4.49
	120.00	2.90	3.55	4.16	4.78	5.41	6.07	6.75
.5000	60.00	1.46	1.75	2.03	2.31	2.59	2.88	3.18
	75.00	1.51	1.81	2.10	2.38	2.67	2.96	3.27
	90.00	1.73	2.09	2.42	2.75	3.09	3.44	3.80
	105.00	2.21	2.68	3.13	3.58	4.04	4.52	5.02
	120.00	3.19	3.92	4.64	5.36	6.10	6.87	7.67
.6667	60.00	1.49	1.81	2.11	2.43	2.74	3.07	3.40
	75.00	1.57	1.90	2.22	2.54	2.86	3.19	3.53
	90.00	1.83	2.23	2.60	2.98	3.36	3.75	4.16
	105.00	2.37	2.90	3.41	3.93	4.45	5.00	5.57
	120.00	3.48	4.32	5.14	5.97	6.82	7.71	8.63
1.0000	60.00	1.56	1.94	2.30	2.67	3.05	3.43	3.83
	75.00	1.71	2.10	2.47	2.85	3.25	3.65	4.07
	90.00	2.04	2.51	2.97	3.43	3.90	4.40	4.91
	105.00	2.71	3.37	4.00	4.64	5.31	6.00	6.72
	120.00	4.10	5.16	6.19	7.24	8.33	9.46	10.64

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 25.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.93	2.14	2.37	2.59	2.84	3.09	3.35
	75.00	2.06	2.28	2.52	2.78	3.05	3.32	3.61
	90.00	2.46	2.75	3.06	3.38	3.71	4.07	4.43
	105.00	3.34	3.76	4.19	4.66	5.16	5.68	6.22
	120.00	5.23	5.93	6.67	7.48	8.33	9.24	10.20
.3333	60.00	2.20	2.50	2.83	3.17	3.53	3.91	4.29
	75.00	2.45	2.79	3.14	3.52	3.92	4.34	4.77
	90.00	3.08	3.51	3.96	4.44	4.96	5.50	6.07
	105.00	4.37	4.99	5.67	6.39	7.16	7.98	8.84
	120.00	7.16	8.25	9.42	10.68	12.05	13.50	15.02
.5000	60.00	2.36	2.71	3.09	3.49	3.91	4.36	4.82
	75.00	2.69	3.08	3.49	3.94	4.41	4.91	5.43
	90.00	3.43	3.94	4.48	5.06	5.67	6.33	7.01
	105.00	4.96	5.71	6.52	7.39	8.33	9.32	10.36
	120.00	8.30	9.61	11.02	12.57	14.22	15.99	17.85
.6667	60.00	2.52	2.93	3.37	3.83	4.32	4.84	5.38
	75.00	2.93	3.38	3.87	4.39	4.94	5.53	6.14
	90.00	3.81	4.40	5.03	5.71	6.44	7.22	8.03
	105.00	5.60	6.49	7.44	8.48	9.59	10.77	12.02
	120.00	9.53	11.08	12.78	14.62	16.58	18.70	20.92
1.0000	60.00	2.89	3.40	3.95	4.54	5.17	5.85	6.55
	75.00	3.45	4.03	4.65	5.33	6.05	6.82	7.64
	90.00	4.62	5.39	6.21	7.11	8.08	9.11	10.19
	105.00	6.98	8.15	9.42	10.80	12.28	13.87	15.54
	120.00	12.17	14.26	16.52	18.99	21.64	24.48	27.47

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 25.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.90	2.12	2.34	2.58	2.83	3.09	3.36
	75.00	2.01	2.24	2.48	2.74	3.02	3.30	3.60
	90.00	2.38	2.68	2.99	3.31	3.66	4.02	4.40
	105.00	3.21	3.63	4.08	4.55	5.06	5.59	6.16
	120.00	4.99	5.70	6.45	7.27	8.14	9.08	10.07
.3333	60.00	2.15	2.45	2.78	3.13	3.50	3.89	4.30
	75.00	2.37	2.72	3.08	3.46	3.87	4.30	4.75
	90.00	2.97	3.40	3.86	4.35	4.88	5.43	6.02
	105.00	4.18	4.81	5.49	6.23	7.02	7.86	8.75
	120.00	6.82	7.91	9.10	10.39	11.78	13.27	14.84
.5000	60.00	2.29	2.64	3.03	3.44	3.88	4.33	4.82
	75.00	2.59	2.99	3.41	3.87	4.35	4.86	5.40
	90.00	3.30	3.81	4.35	4.94	5.57	6.25	6.96
	105.00	4.74	5.50	6.32	7.20	8.16	9.18	10.26
	120.00	7.89	9.21	10.66	12.22	13.91	15.72	17.66
.6667	60.00	2.44	2.86	3.30	3.77	4.27	4.81	5.37
	75.00	2.83	3.28	3.77	4.30	4.87	5.47	6.11
	90.00	3.66	4.25	4.89	5.58	6.33	7.12	7.97
	105.00	5.35	6.24	7.21	8.26	9.39	10.61	11.90
	120.00	9.06	10.64	12.35	14.20	16.23	18.39	20.69
1.0000	60.00	2.79	3.30	3.85	4.46	5.10	5.80	6.53
	75.00	3.32	3.90	4.53	5.22	5.96	6.75	7.59
	90.00	4.42	5.19	6.03	6.95	7.93	8.99	10.11
	105.00	6.67	7.84	9.12	10.52	12.04	13.66	15.40
	120.00	11.58	13.67	15.98	18.47	21.18	24.09	27.20

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 25.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.86	2.09	2.32	2.56	2.82	3.09	3.37
	75.00	1.96	2.19	2.44	2.71	2.99	3.28	3.59
	90.00	2.30	2.60	2.92	3.25	3.60	3.98	4.37
	105.00	3.08	3.51	3.96	4.44	4.96	5.51	6.09
	120.00	4.75	5.46	6.23	7.06	7.95	8.90	9.93
.3333	60.00	2.09	2.40	2.73	3.09	3.47	3.87	4.29
	75.00	2.29	2.64	3.01	3.40	3.82	4.26	4.72
	90.00	2.85	3.28	3.75	4.25	4.79	5.36	5.97
	105.00	3.99	4.63	5.32	6.06	6.87	7.73	8.65
	120.00	6.47	7.57	8.77	10.08	11.50	13.02	14.65
.5000	60.00	2.21	2.57	2.97	3.39	3.83	4.31	4.81
	75.00	2.50	2.90	3.33	3.79	4.29	4.81	5.37
	90.00	3.16	3.67	4.23	4.83	5.47	6.16	6.89
	105.00	4.52	5.28	6.11	7.01	7.98	9.03	10.15
	120.00	7.48	8.81	10.26	11.86	13.57	15.44	17.43
.6667	60.00	2.36	2.77	3.22	3.71	4.22	4.77	5.35
	75.00	2.71	3.17	3.67	4.21	4.79	5.41	6.07
	90.00	3.50	4.09	4.75	5.45	6.20	7.02	7.89
	105.00	5.09	5.99	6.97	8.03	9.19	10.44	11.77
	120.00	8.58	10.16	11.90	13.79	15.84	18.07	20.44
1.0000	60.00	2.67	3.19	3.76	4.37	5.03	5.74	6.50
	75.00	3.17	3.76	4.40	5.10	5.85	6.67	7.53
	90.00	4.22	4.99	5.84	6.77	7.78	8.86	10.02
	105.00	6.32	7.51	8.82	10.23	11.78	13.45	15.23
	120.00	10.96	13.07	15.39	17.94	20.70	23.69	26.88

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 25.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.82	2.06	2.29	2.54	2.81	3.08	3.38
	75.00	1.90	2.14	2.39	2.66	2.95	3.26	3.58
	90.00	2.21	2.52	2.84	3.18	3.54	3.93	4.33
	105.00	2.94	3.37	3.83	4.32	4.85	5.41	6.02
	120.00	4.50	5.22	6.00	6.84	7.74	8.73	9.78
.3333	60.00	2.02	2.34	2.68	3.04	3.43	3.85	4.28
	75.00	2.20	2.55	2.93	3.33	3.76	4.21	4.69
	90.00	2.72	3.16	3.64	4.14	4.70	5.28	5.91
	105.00	3.79	4.43	5.13	5.89	6.71	7.59	8.54
	120.00	6.10	7.22	8.43	9.75	11.21	12.77	14.43
.5000	60.00	2.13	2.50	2.90	3.33	3.79	4.27	4.79
	75.00	2.39	2.80	3.24	3.71	4.21	4.76	5.33
	90.00	3.01	3.53	4.09	4.70	5.36	6.07	6.82
	105.00	4.28	5.05	5.89	6.81	7.80	8.87	10.02
	120.00	7.05	8.40	9.86	11.47	13.23	15.13	17.19
.6667	60.00	2.26	2.69	3.14	3.63	4.16	4.72	5.33
	75.00	2.59	3.06	3.57	4.11	4.70	5.34	6.02
	90.00	3.33	3.93	4.59	5.30	6.08	6.91	7.81
	105.00	4.82	5.73	6.72	7.80	8.97	10.26	11.62
	120.00	8.08	9.68	11.43	13.35	15.45	17.71	20.17
1.0000	60.00	2.56	3.08	3.65	4.28	4.95	5.68	6.46
	75.00	3.02	3.62	4.27	4.98	5.74	6.58	7.47
	90.00	4.00	4.79	5.65	6.58	7.61	8.72	9.91
	105.00	5.98	7.18	8.49	9.93	11.51	13.21	15.05
	120.00	10.31	12.45	14.80	17.37	20.19	23.24	26.54

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 25.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.77	2.02	2.26	2.52	2.79	3.08	3.38
	75.00	1.83	2.08	2.34	2.62	2.92	3.23	3.56
	90.00	2.12	2.43	2.76	3.11	3.48	3.87	4.29
	105.00	2.79	3.23	3.70	4.20	4.74	5.32	5.93
	120.00	4.23	4.96	5.75	6.61	7.54	8.53	9.62
.3333	60.00	1.95	2.27	2.62	2.99	3.39	3.82	4.27
	75.00	2.11	2.46	2.85	3.26	3.70	4.16	4.66
	90.00	2.58	3.03	3.52	4.04	4.60	5.20	5.84
	105.00	3.57	4.23	4.94	5.71	6.55	7.45	8.42
	120.00	5.71	6.84	8.08	9.43	10.89	12.48	14.21
.5000	60.00	2.05	2.42	2.83	3.27	3.74	4.23	4.76
	75.00	2.28	2.70	3.14	3.63	4.14	4.69	5.29
	90.00	2.85	3.38	3.95	4.57	5.24	5.97	6.74
	105.00	4.03	4.81	5.67	6.59	7.61	8.70	9.88
	120.00	6.59	7.96	9.45	11.09	12.87	14.82	16.92
.6667	60.00	2.16	2.59	3.06	3.56	4.10	4.68	5.29
	75.00	2.46	2.94	3.46	4.01	4.62	5.26	5.96
	90.00	3.15	3.76	4.43	5.15	5.94	6.80	7.72
	105.00	4.53	5.45	6.45	7.55	8.75	10.05	11.46
	120.00	7.55	9.17	10.95	12.89	15.02	17.35	19.86
1.0000	60.00	2.43	2.96	3.54	4.17	4.86	5.61	6.41
	75.00	2.86	3.47	4.12	4.84	5.63	6.48	7.40
	90.00	3.77	4.57	5.44	6.40	7.44	8.57	9.80
	105.00	5.61	6.82	8.15	9.62	11.22	12.96	14.85
	120.00	9.63	11.79	14.17	16.80	19.65	22.78	26.16

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 25.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.72	1.97	2.23	2.49	2.77	3.07	3.38
	75.00	1.76	2.02	2.29	2.57	2.88	3.20	3.54
	90.00	2.02	2.34	2.68	3.03	3.41	3.82	4.25
	105.00	2.63	3.08	3.56	4.07	4.62	5.21	5.85
	120.00	3.95	4.70	5.50	6.37	7.31	8.34	9.45
.3333	60.00	1.87	2.20	2.56	2.94	3.35	3.79	4.25
	75.00	2.01	2.37	2.77	3.18	3.63	4.11	4.62
	90.00	2.44	2.90	3.40	3.93	4.50	5.11	5.77
	105.00	3.35	4.02	4.74	5.52	6.37	7.30	8.30
	120.00	5.31	6.46	7.70	9.07	10.58	12.20	13.96
.5000	60.00	1.95	2.34	2.75	3.20	3.68	4.19	4.74
	75.00	2.16	2.59	3.04	3.53	4.06	4.63	5.24
	90.00	2.69	3.23	3.81	4.44	5.12	5.86	6.66
	105.00	3.77	4.57	5.43	6.37	7.40	8.52	9.73
	120.00	6.12	7.50	9.01	10.67	12.50	14.48	16.64
.6667	60.00	2.05	2.49	2.97	3.48	4.03	4.62	5.26
	75.00	2.33	2.82	3.34	3.91	4.52	5.19	5.90
	90.00	2.95	3.58	4.26	5.00	5.80	6.67	7.62
	105.00	4.22	5.17	6.18	7.30	8.51	9.85	11.29
	120.00	7.00	8.64	10.44	12.43	14.59	16.95	19.55
1.0000	60.00	2.30	2.84	3.42	4.07	4.77	5.53	6.35
	75.00	2.70	3.30	3.97	4.71	5.50	6.37	7.32
	90.00	3.53	4.33	5.22	6.19	7.25	8.41	9.67
	105.00	5.21	6.45	7.80	9.29	10.91	12.70	14.64
	120.00	8.91	11.12	13.52	16.17	19.10	22.28	25.75

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 25.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.65	1.92	2.19	2.46	2.75	3.05	3.38
	75.00	1.69	1.95	2.23	2.52	2.83	3.16	3.52
	90.00	1.91	2.24	2.59	2.95	3.34	3.76	4.20
	105.00	2.45	2.92	3.42	3.94	4.50	5.10	5.76
	120.00	3.65	4.42	5.24	6.12	7.09	8.13	9.27
.3333	60.00	1.77	2.13	2.49	2.88	3.30	3.75	4.22
	75.00	1.90	2.27	2.67	3.10	3.56	4.05	4.57
	90.00	2.28	2.76	3.26	3.80	4.39	5.02	5.70
	105.00	3.10	3.79	4.53	5.33	6.20	7.14	8.16
	120.00	4.87	6.05	7.33	8.71	10.24	11.90	13.71
.5000	60.00	1.85	2.25	2.67	3.12	3.62	4.14	4.70
	75.00	2.02	2.46	2.93	3.43	3.97	4.56	5.18
	90.00	2.50	3.06	3.65	4.30	4.99	5.75	6.57
	105.00	3.48	4.30	5.18	6.15	7.19	8.33	9.57
	120.00	5.59	7.02	8.57	10.25	12.10	14.13	16.34
.6667	60.00	1.93	2.38	2.87	3.39	3.96	4.56	5.22
	75.00	2.17	2.68	3.22	3.79	4.42	5.10	5.84
	90.00	2.74	3.39	4.08	4.83	5.65	6.54	7.51
	105.00	3.89	4.85	5.90	7.03	8.27	9.63	11.11
	120.00	6.39	8.10	9.91	11.92	14.14	16.56	19.19
1.0000	60.00	2.14	2.70	3.30	3.96	4.67	5.45	6.30
	75.00	2.50	3.13	3.82	4.56	5.37	6.26	7.23
	90.00	3.26	4.09	4.99	5.98	7.06	8.24	9.53
	105.00	4.79	6.05	7.43	8.94	10.61	12.42	14.40
	120.00	8.13	10.38	12.85	15.53	18.51	21.77	25.32

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 30.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.15	2.46	2.79	3.14	3.54	3.96	4.42
	75.00	2.38	2.73	3.11	3.54	4.01	4.52	5.07
	90.00	3.00	3.48	4.01	4.60	5.24	5.96	6.73
	105.00	4.35	5.10	5.94	6.88	7.93	9.09	10.36
	120.00	7.38	8.78	10.34	12.14	14.14	16.37	18.82
.3333	60.00	2.57	3.03	3.55	4.14	4.78	5.47	6.22
	75.00	3.02	3.58	4.20	4.90	5.67	6.52	7.45
	90.00	4.06	4.83	5.71	6.69	7.79	9.01	10.33
	105.00	6.24	7.49	8.92	10.53	12.35	14.38	16.60
	120.00	11.24	13.62	16.38	19.50	23.06	26.99	31.30
.5000	60.00	2.82	3.38	4.02	4.73	5.52	6.38	7.32
	75.00	3.42	4.10	4.87	5.73	6.69	7.76	8.92
	90.00	4.71	5.67	6.75	7.98	9.37	10.91	12.59
	105.00	7.42	8.99	10.78	12.84	15.15	17.71	20.53
	120.00	13.67	16.70	20.19	24.16	28.65	33.67	39.17
.6667	60.00	3.11	3.78	4.54	5.40	6.35	7.40	8.54
	75.00	3.87	4.68	5.61	6.66	7.84	9.14	10.57
	90.00	5.45	6.61	7.94	9.45	11.16	13.05	15.14
	105.00	8.77	10.69	12.92	15.44	18.30	21.47	24.96
	120.00	16.45	20.21	24.50	29.44	35.01	41.24	48.07
1.0000	60.00	3.77	4.67	5.70	6.87	8.18	9.65	11.25
	75.00	4.87	5.99	7.28	8.74	10.39	12.23	14.25
	90.00	7.10	8.74	10.60	12.74	15.15	17.85	20.80
	105.00	11.79	14.52	17.67	21.26	25.33	29.86	34.84
	120.00	22.70	28.01	34.18	41.20	49.17	58.04	67.77

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 30.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.12	2.44	2.77	3.14	3.54	3.98	4.45
	75.00	2.33	2.68	3.07	3.51	3.99	4.51	5.08
	90.00	2.91	3.39	3.93	4.53	5.19	5.92	6.73
	105.00	4.20	4.95	5.79	6.75	7.82	9.01	10.34
	120.00	7.08	8.48	10.06	11.89	13.93	16.21	18.75
.3333	60.00	2.51	2.98	3.51	4.10	4.76	5.47	6.25
	75.00	2.93	3.49	4.13	4.84	5.63	6.50	7.46
	90.00	3.92	4.70	5.57	6.58	7.69	8.95	10.33
	105.00	5.99	7.25	8.69	10.33	12.19	14.26	16.57
	120.00	10.76	13.16	15.92	19.10	22.71	26.75	31.22
.5000	60.00	2.74	3.31	3.96	4.68	5.48	6.37	7.35
	75.00	3.31	4.00	4.77	5.64	6.63	7.72	8.93
	90.00	4.54	5.50	6.60	7.85	9.26	10.84	12.58
	105.00	7.12	8.71	10.51	12.59	14.94	17.58	20.50
	120.00	13.10	16.14	19.65	23.66	28.26	33.39	39.10
.6667	60.00	3.02	3.70	4.46	5.33	6.30	7.38	8.57
	75.00	3.74	4.56	5.49	6.56	7.75	9.10	10.58
	90.00	5.24	6.41	7.76	9.28	11.02	12.97	15.13
	105.00	8.41	10.34	12.57	15.14	18.05	21.32	24.93
	120.00	15.75	19.51	23.85	28.84	34.52	40.91	48.00
1.0000	60.00	3.65	4.55	5.59	6.77	8.11	9.61	11.28
	75.00	4.70	5.82	7.11	8.60	10.27	12.17	14.26
	90.00	6.83	8.46	10.35	12.51	14.98	17.74	20.80
	105.00	11.32	14.05	17.22	20.86	25.00	29.65	34.83
	120.00	21.72	27.09	33.27	40.40	48.49	57.61	67.72

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 30.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.09	2.41	2.75	3.13	3.54	3.99	4.49
	75.00	2.28	2.63	3.03	3.48	3.96	4.50	5.09
	90.00	2.82	3.31	3.85	4.46	5.13	5.89	6.72
	105.00	4.04	4.79	5.65	6.62	7.71	8.93	10.30
	120.00	6.77	8.18	9.78	11.62	13.69	16.04	18.66
.3333	60.00	2.45	2.92	3.45	4.06	4.73	5.47	6.28
	75.00	2.84	3.41	4.05	4.76	5.57	6.47	7.46
	90.00	3.78	4.56	5.44	6.46	7.60	8.89	10.31
	105.00	5.75	7.01	8.46	10.12	12.01	14.14	16.52
	120.00	10.27	12.69	15.46	18.69	22.35	26.49	31.11
.5000	60.00	2.67	3.24	3.89	4.63	5.44	6.36	7.37
	75.00	3.20	3.89	4.67	5.55	6.56	7.68	8.93
	90.00	4.37	5.33	6.43	7.70	9.14	10.75	12.56
	105.00	6.82	8.41	10.24	12.32	14.72	17.42	20.44
	120.00	12.51	15.55	19.07	23.16	27.81	33.09	38.98
.6667	60.00	2.92	3.60	4.38	5.26	6.25	7.36	8.58
	75.00	3.60	4.43	5.37	6.45	7.67	9.04	10.57
	90.00	5.03	6.20	7.56	9.11	10.87	12.87	15.11
	105.00	8.04	10.00	12.23	14.83	17.80	21.13	24.87
	120.00	15.03	18.79	23.19	28.21	34.02	40.55	47.87
1.0000	60.00	3.52	4.42	5.47	6.67	8.03	9.57	11.29
	75.00	4.52	5.64	6.94	8.44	10.16	12.09	14.25
	90.00	6.55	8.18	10.08	12.28	14.77	17.61	20.78
	105.00	10.81	13.57	16.75	20.44	24.64	29.43	34.77
	120.00	20.74	26.11	32.34	39.54	47.79	57.12	67.56

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 30.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.05	2.38	2.73	3.11	3.53	4.00	4.51
	75.00	2.22	2.58	2.96	3.44	3.94	4.49	5.10
	90.00	2.73	3.22	3.77	4.39	5.08	5.84	6.70
	105.00	3.88	4.64	5.50	6.48	7.59	8.84	10.25
	120.00	6.47	7.87	9.48	11.35	13.45	15.85	18.55
.3333	60.00	2.38	2.86	3.40	4.01	4.70	5.45	6.29
	75.00	2.74	3.32	3.97	4.69	5.51	6.43	7.46
	90.00	3.63	4.42	5.31	6.34	7.49	8.81	10.28
	105.00	5.50	6.76	8.22	9.90	11.82	14.00	16.45
	120.00	9.78	12.19	15.00	18.24	21.97	26.20	30.97
.5000	60.00	2.58	3.16	3.82	4.57	5.40	6.34	7.38
	75.00	3.08	3.78	4.57	5.46	6.48	7.63	8.91
	90.00	4.19	5.16	6.27	7.55	9.01	10.66	12.53
	105.00	6.51	8.09	9.93	12.06	14.49	17.26	20.36
	120.00	11.88	14.94	18.49	22.61	27.35	32.74	38.80
.6667	60.00	2.82	3.51	4.29	5.18	6.19	7.32	8.59
	75.00	3.47	4.29	5.24	6.33	7.57	8.99	10.56
	90.00	4.82	6.00	7.36	8.93	10.72	12.76	15.06
	105.00	7.68	9.62	11.89	14.50	17.51	20.93	24.79
	120.00	14.29	18.07	22.46	27.58	33.45	40.14	47.70
1.0000	60.00	3.39	4.29	5.35	6.56	7.94	9.52	11.29
	75.00	4.33	5.46	6.77	8.29	10.03	12.01	14.23
	90.00	6.26	7.90	9.81	12.02	14.56	17.47	20.72
	105.00	10.31	13.06	16.27	19.99	24.28	29.16	34.65
	120.00	19.74	25.09	31.38	38.66	47.04	56.59	67.36

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 30.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.01	2.35	2.71	3.10	3.53	4.01	4.54
	75.00	2.16	2.53	2.93	3.39	3.91	4.48	5.10
	90.00	2.63	3.13	3.68	4.31	5.02	5.80	6.68
	105.00	3.71	4.48	5.35	6.34	7.47	8.75	10.19
	120.00	6.15	7.55	9.17	11.06	13.21	15.65	18.43
.3333	60.00	2.31	2.80	3.34	3.97	4.66	5.44	6.30
	75.00	2.64	3.22	3.87	4.62	5.45	6.39	7.44
	90.00	3.47	4.27	5.18	6.21	7.39	8.73	10.24
	105.00	5.23	6.51	7.97	9.67	11.63	13.84	16.37
	120.00	9.27	11.67	14.50	17.79	21.57	25.91	30.79
.5000	60.00	2.49	3.07	3.74	4.50	5.36	6.31	7.38
	75.00	2.96	3.66	4.46	5.37	6.41	7.57	8.90
	90.00	4.00	4.98	6.10	7.39	8.88	10.57	12.47
	105.00	6.20	7.78	9.63	11.78	14.25	17.07	20.27
	120.00	11.24	14.31	17.92	22.05	26.89	32.36	38.62
.6667	60.00	2.71	3.41	4.20	5.10	6.13	7.28	8.59
	75.00	3.32	4.15	5.12	6.21	7.47	8.91	10.53
	90.00	4.60	5.78	7.15	8.73	10.57	12.64	15.01
	105.00	7.29	9.23	11.52	14.17	17.22	20.73	24.68
	120.00	13.52	17.32	21.73	26.92	32.86	39.73	47.46
1.0000	60.00	3.24	4.15	5.21	6.44	7.86	9.46	11.28
	75.00	4.13	5.26	6.59	8.12	9.89	11.91	14.20
	90.00	5.95	7.60	9.52	11.76	14.36	17.30	20.66
	105.00	9.78	12.53	15.77	19.53	23.89	28.87	34.52
	120.00	18.66	24.06	30.38	37.75	46.25	56.02	67.06

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 30.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.96	2.31	2.68	3.08	3.52	4.01	4.56
	75.00	2.10	2.47	2.88	3.35	3.87	4.46	5.10
	90.00	2.53	3.03	3.59	4.23	4.95	5.75	6.65
	105.00	3.53	4.30	5.19	6.20	7.35	8.64	10.13
	120.00	5.80	7.23	8.87	10.76	12.94	15.44	18.29
.3333	60.00	2.23	2.73	3.28	3.91	4.62	5.42	6.31
	75.00	2.54	3.12	3.78	4.53	5.38	6.35	7.43
	90.00	3.31	4.11	5.02	6.08	7.28	8.65	10.19
	105.00	4.95	6.23	7.72	9.44	11.41	13.69	16.27
	120.00	8.72	11.16	13.99	17.33	21.16	25.56	30.59
.5000	60.00	2.40	2.99	3.66	4.43	5.30	6.28	7.38
	75.00	2.83	3.53	4.34	5.26	6.32	7.52	8.87
	90.00	3.80	4.78	5.92	7.23	8.74	10.46	12.42
	105.00	5.85	7.46	9.32	11.48	14.00	16.87	20.16
	120.00	10.60	13.67	17.27	21.48	26.36	31.99	38.37
.6667	60.00	2.60	3.30	4.10	5.01	6.06	7.25	8.58
	75.00	3.16	4.00	4.97	6.09	7.38	8.84	10.50
	90.00	4.36	5.55	6.94	8.54	10.39	12.52	14.94
	105.00	6.88	8.85	11.13	13.82	16.93	20.48	24.55
	120.00	12.72	16.52	21.01	26.20	32.28	39.24	47.20
1.0000	60.00	3.09	4.02	5.08	6.32	7.75	9.40	11.26
	75.00	3.92	5.08	6.40	7.95	9.75	11.81	14.16
	90.00	5.63	7.30	9.23	11.49	14.11	17.13	20.57
	105.00	9.24	12.00	15.24	19.07	23.46	28.56	34.36
	120.00	17.55	23.01	29.33	36.78	45.43	55.37	66.72

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 30.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	1.91	2.27	2.65	3.06	3.51	4.01	4.57
	75.00	2.02	2.41	2.82	3.30	3.83	4.44	5.10
	90.00	2.42	2.92	3.50	4.15	4.88	5.70	6.62
	105.00	3.34	4.13	5.02	6.04	7.21	8.54	10.06
	120.00	5.45	6.88	8.54	10.46	12.67	15.23	18.13
.3333	60.00	2.15	2.65	3.21	3.85	4.58	5.40	6.31
	75.00	2.42	3.01	3.68	4.45	5.31	6.29	7.41
	90.00	3.14	3.95	4.87	5.93	7.16	8.55	10.14
	105.00	4.66	5.96	7.45	9.20	11.20	13.51	16.16
	120.00	8.16	10.62	13.47	16.83	20.74	25.21	30.38
.5000	60.00	2.30	2.89	3.57	4.36	5.24	6.25	7.38
	75.00	2.69	3.40	4.22	5.16	6.23	7.46	8.84
	90.00	3.59	4.58	5.73	7.05	8.59	10.34	12.36
	105.00	5.50	7.11	8.99	11.18	13.73	16.68	20.02
	120.00	9.89	13.00	16.61	20.90	25.83	31.56	38.11
.6667	60.00	2.48	3.18	3.99	4.92	5.98	7.19	8.57
	75.00	3.00	3.85	4.83	5.96	7.26	8.76	10.46
	90.00	4.11	5.31	6.71	8.34	10.21	12.38	14.86
	105.00	6.45	8.44	10.75	13.45	16.61	20.23	24.41
	120.00	11.89	15.71	20.22	25.48	31.64	38.74	46.89
1.0000	60.00	2.94	3.86	4.94	6.19	7.64	9.32	11.24
	75.00	3.71	4.86	6.20	7.77	9.59	11.69	14.10
	90.00	5.30	6.96	8.92	11.21	13.86	16.95	20.47
	105.00	8.64	11.44	14.71	18.56	23.04	28.22	34.17
	120.00	16.41	21.85	28.28	35.79	44.58	54.69	66.36

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 35.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.41	2.84	3.32	3.88	4.52	5.25	6.06
	75.00	2.78	3.30	3.91	4.64	5.48	6.44	7.53
	90.00	3.69	4.48	5.41	6.50	7.79	9.28	11.00
	105.00	5.75	7.12	8.74	10.71	13.01	15.73	18.85
	120.00	10.72	13.51	16.92	21.03	25.97	31.77	38.47
.3333	60.00	3.03	3.74	4.59	5.60	6.76	8.11	9.65
	75.00	3.79	4.72	5.84	7.16	8.73	10.55	12.65
	90.00	5.49	6.93	8.65	10.74	13.21	16.11	19.45
	105.00	9.28	11.84	14.98	18.77	23.33	28.69	34.87
	120.00	18.53	24.03	30.70	38.87	48.68	60.19	73.47
.5000	60.00	3.44	4.35	5.44	6.72	8.24	10.01	12.03
	75.00	4.48	5.68	7.12	8.86	10.92	13.34	16.12
	90.00	6.72	8.58	10.86	13.62	16.91	20.78	25.25
	105.00	11.67	15.08	19.26	24.35	30.43	37.61	45.87
	120.00	24.00	31.26	40.27	51.14	64.23	79.66	97.46
.6667	60.00	3.94	5.07	6.43	8.05	9.99	12.25	14.85
	75.00	5.30	6.81	8.65	10.88	13.53	16.65	20.23
	90.00	8.17	10.56	13.51	17.05	21.31	26.34	32.12
	105.00	14.56	18.97	24.39	30.96	38.86	48.17	58.90
	120.00	30.44	39.96	51.56	65.74	82.78	102.85	126.00
1.0000	60.00	5.16	6.80	8.80	11.24	14.15	17.57	21.53
	75.00	7.27	9.53	12.31	15.67	19.73	24.49	29.99
	90.00	11.68	15.33	19.79	25.24	31.77	39.47	48.36
	105.00	21.47	28.21	36.53	46.66	58.75	73.05	89.56
	120.00	45.88	60.38	78.31	100.14	126.21	157.06	192.65

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 35.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.38	2.82	3.32	3.88	4.53	5.29	6.14
	75.00	2.73	3.25	3.87	4.61	5.47	6.46	7.59
	90.00	3.59	4.38	5.32	6.43	7.74	9.28	11.06
	105.00	5.57	6.93	8.58	10.55	12.92	15.71	18.95
	120.00	10.32	13.14	16.54	20.73	25.74	31.70	38.69
.3333	60.00	2.97	3.68	4.54	5.56	6.76	8.14	9.74
	75.00	3.69	4.63	5.75	7.10	8.69	10.56	12.75
	90.00	5.32	6.75	8.50	10.60	13.13	16.11	19.58
	105.00	8.94	11.52	14.66	18.52	23.15	28.66	35.10
	120.00	17.85	23.32	30.05	38.35	48.30	60.13	73.94
.5000	60.00	3.36	4.27	5.36	6.67	8.22	10.04	12.14
	75.00	4.35	5.55	7.01	8.76	10.87	13.35	16.24
	90.00	6.50	8.38	10.65	13.46	16.80	20.78	25.42
	105.00	11.27	14.67	18.89	24.00	30.21	37.60	46.18
	120.00	23.09	30.37	39.41	50.44	63.81	79.63	98.14
.6667	60.00	3.83	4.97	6.34	7.98	9.95	12.28	14.98
	75.00	5.14	6.66	8.50	10.75	13.45	16.67	20.39
	90.00	7.90	10.29	13.25	16.84	21.19	26.35	32.36
	105.00	14.04	18.47	23.88	30.57	38.59	48.15	59.34
	120.00	29.35	38.80	50.49	64.90	82.19	102.81	126.93
1.0000	60.00	5.00	6.64	8.66	11.12	14.09	17.61	21.73
	75.00	7.04	9.29	12.08	15.50	19.62	24.51	30.24
	90.00	11.28	14.92	19.41	24.93	31.58	39.49	48.73
	105.00	20.72	27.45	35.81	46.02	58.36	73.07	90.24
	120.00	44.22	58.70	76.79	98.74	125.37	157.08	194.09

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 35.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.35	2.80	3.30	3.88	4.55	5.33	6.21
	75.00	2.67	3.20	3.83	4.58	5.45	6.47	7.65
	90.00	3.49	4.29	5.23	6.36	7.70	9.28	11.12
	105.00	5.39	6.74	8.40	10.40	12.80	15.66	19.02
	120.00	9.92	12.74	16.17	20.39	25.49	31.62	38.84
.3333	60.00	2.91	3.62	4.49	5.52	6.74	8.17	9.82
	75.00	3.58	4.52	5.66	7.02	8.65	10.57	12.83
	90.00	5.15	6.58	8.33	10.46	13.03	16.08	19.69
	105.00	8.61	11.19	14.35	18.27	22.96	28.61	35.28
	120.00	17.17	22.60	29.40	37.75	47.89	60.04	74.34
.5000	60.00	3.27	4.18	5.29	6.61	8.20	10.06	12.23
	75.00	4.21	5.42	6.88	8.67	10.80	13.35	16.35
	90.00	6.27	8.14	10.45	13.27	16.69	20.76	25.57
	105.00	10.86	14.25	18.47	23.65	29.99	37.53	46.43
	120.00	22.17	29.48	38.54	49.74	63.24	79.50	98.68
.6667	60.00	3.72	4.86	6.24	7.91	9.91	12.31	15.10
	75.00	4.97	6.48	8.35	10.62	13.38	16.66	20.53
	90.00	7.62	10.01	12.98	16.63	21.03	26.32	32.55
	105.00	13.52	17.91	23.38	30.12	38.28	48.10	59.68
	120.00	28.24	37.62	49.43	63.93	81.53	102.71	127.66
1.0000	60.00	4.85	6.48	8.51	10.99	14.02	17.63	21.89
	75.00	6.80	9.05	11.85	15.31	19.49	24.52	30.45
	90.00	10.88	14.50	19.03	24.59	31.37	39.49	49.07
	105.00	19.96	26.66	35.06	45.38	57.98	73.05	90.83
	120.00	42.47	57.03	75.11	97.34	124.52	157.02	195.35

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 35.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.32	2.78	3.29	3.87	4.55	5.36	6.28
	75.00	2.62	3.15	3.78	4.55	5.44	6.49	7.70
	90.00	3.39	4.19	5.15	6.28	7.65	9.26	11.17
	105.00	5.20	6.56	8.22	10.25	12.68	15.62	19.09
	120.00	9.53	12.33	15.79	20.04	25.24	31.53	38.97
.3333	60.00	2.84	3.56	4.43	5.48	6.73	8.19	9.90
	75.00	3.47	4.42	5.56	6.94	8.60	10.56	12.90
	90.00	4.97	6.40	8.16	10.32	12.92	16.06	19.78
	105.00	8.28	10.85	14.04	17.97	22.76	28.56	35.43
	120.00	16.48	21.86	28.74	37.13	47.47	59.86	74.63
.5000	60.00	3.18	4.09	5.21	6.55	8.16	10.08	12.32
	75.00	4.08	5.28	6.76	8.56	10.73	13.35	16.44
	90.00	6.04	7.91	10.24	13.08	16.55	20.72	25.69
	105.00	10.41	13.82	18.05	23.31	29.73	37.47	46.66
	120.00	21.24	28.55	37.66	48.92	62.68	79.36	99.17
.6667	60.00	3.61	4.74	6.13	7.82	9.86	12.31	15.20
	75.00	4.79	6.31	8.20	10.49	13.29	16.66	20.65
	90.00	7.33	9.74	12.70	16.38	20.86	26.29	32.72
	105.00	12.97	17.35	22.87	29.65	37.98	48.05	59.98
	120.00	27.02	36.44	48.34	62.91	80.87	102.55	129.30
1.0000	60.00	4.67	6.33	8.36	10.87	13.93	17.64	22.04
	75.00	6.54	8.81	11.62	15.11	19.36	24.52	30.63
	90.00	10.45	14.07	18.64	24.24	31.14	39.43	49.32
	105.00	19.12	25.85	34.27	44.73	57.52	72.92	91.28
	120.00	40.72	55.28	73.38	95.94	123.51	156.71	196.30

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 35.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.28	2.75	3.27	3.86	4.56	5.39	6.34
	75.00	2.56	3.10	3.74	4.51	5.42	6.49	7.75
	90.00	3.29	4.09	5.05	6.20	7.59	9.24	11.21
	105.00	5.00	6.37	8.03	10.10	12.57	15.57	19.13
	120.00	9.13	11.82	15.41	19.69	24.99	31.37	39.05
.3333	60.00	2.77	3.49	4.37	5.43	6.70	8.20	9.97
	75.00	3.36	4.31	5.46	6.86	8.55	10.56	12.96
	90.00	4.79	6.22	7.99	10.18	12.82	16.03	19.84
	105.00	7.94	10.51	13.73	17.67	22.56	28.46	35.54
	120.00	15.71	21.16	27.99	36.50	46.97	59.67	74.91
.5000	60.00	3.09	4.00	5.13	6.49	8.12	10.08	12.40
	75.00	3.94	5.15	6.63	8.45	10.66	13.33	16.52
	90.00	5.81	7.67	10.00	12.88	16.40	20.67	25.80
	105.00	9.96	13.37	17.62	22.96	29.44	37.37	46.82
	120.00	20.32	27.58	36.74	48.08	62.11	79.16	99.51
.6667	60.00	3.48	4.63	6.03	7.73	9.82	12.32	15.29
	75.00	4.62	6.13	8.02	10.35	13.18	16.64	20.74
	90.00	7.03	9.43	12.42	16.12	20.69	26.24	32.85
	105.00	12.41	16.79	22.34	29.18	37.67	47.90	60.21
	120.00	25.79	35.26	47.12	61.90	80.16	102.27	128.80
1.0000	60.00	4.50	6.14	8.19	10.74	13.85	17.64	22.16
	75.00	6.28	8.54	11.37	14.89	19.24	24.48	30.78
	90.00	10.01	13.64	18.21	23.88	30.87	39.37	49.57
	105.00	18.28	25.03	33.47	44.05	56.99	72.78	91.72
	120.00	38.94	53.43	71.65	94.50	122.35	156.39	197.24

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 35.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.24	2.71	3.25	3.86	4.57	5.42	6.40
	75.00	2.49	3.04	3.68	4.47	5.40	6.49	7.79
	90.00	3.18	3.99	4.96	6.12	7.53	9.22	11.24
	105.00	4.80	6.18	7.85	9.92	12.45	15.49	19.17
	120.00	8.71	11.50	14.99	19.34	24.68	31.22	39.13
.3333	60.00	2.69	3.42	4.31	5.39	6.68	8.21	10.03
	75.00	3.25	4.21	5.36	6.77	8.49	10.55	13.02
	90.00	4.60	6.03	7.81	10.01	12.72	15.97	19.91
	105.00	7.59	10.14	13.37	17.37	22.32	28.35	35.65
	120.00	14.94	20.43	27.24	35.88	46.47	59.49	75.10
.5000	60.00	2.99	3.91	5.04	6.42	8.08	10.09	12.47
	75.00	3.79	5.00	6.50	8.33	10.59	13.30	16.58
	90.00	5.57	7.44	9.77	12.69	16.25	20.63	25.88
	105.00	9.50	12.91	17.19	22.54	29.15	37.22	46.95
	120.00	19.35	26.57	35.78	47.24	61.55	78.83	99.81
.6667	60.00	3.36	4.51	5.91	7.64	9.75	12.31	15.37
	75.00	4.44	5.96	7.84	10.20	13.08	16.60	20.82
	90.00	6.73	9.11	12.13	15.87	20.53	26.16	32.98
	105.00	11.83	16.23	21.77	28.71	37.28	47.75	60.43
	120.00	24.55	34.04	45.89	60.88	79.36	101.93	129.27
1.0000	60.00	4.32	5.96	8.02	10.59	13.75	17.61	22.28
	75.00	6.02	8.27	11.12	14.66	19.07	24.43	30.92
	90.00	9.55	13.19	17.76	23.51	30.59	39.29	49.75
	105.00	17.44	24.22	32.67	43.31	56.46	72.65	92.04
	120.00	37.10	51.52	69.91	92.83	121.19	156.08	197.91

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 35.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.19	2.68	3.22	3.85	4.57	5.44	6.45
	75.00	2.42	2.98	3.63	4.43	5.37	6.49	7.83
	90.00	3.06	3.87	4.86	6.04	7.47	9.19	11.27
	105.00	4.59	5.96	7.67	9.74	12.30	15.42	19.20
	120.00	8.26	11.07	14.56	18.98	24.37	31.07	39.16
.3333	60.00	2.61	3.35	4.24	5.34	6.65	8.21	10.09
	75.00	3.13	4.09	5.26	6.68	8.42	10.52	13.06
	90.00	4.39	5.85	7.63	9.84	12.58	15.91	19.96
	105.00	7.21	9.78	13.01	17.07	22.06	28.24	35.74
	120.00	14.17	19.61	26.49	35.19	45.97	59.20	75.23
.5000	60.00	2.88	3.80	4.96	6.35	8.04	10.08	12.53
	75.00	3.63	4.86	6.36	8.21	10.49	13.27	16.64
	90.00	5.31	7.19	9.53	12.47	16.10	20.55	25.94
	105.00	9.05	12.44	16.76	22.12	28.86	37.07	47.09
	120.00	18.29	25.57	34.78	46.41	60.81	78.51	100.11
.6667	60.00	3.23	4.38	5.80	7.55	9.68	12.30	15.43
	75.00	4.25	5.77	7.67	10.04	12.97	16.55	20.90
	90.00	6.42	8.80	11.83	15.61	20.30	26.07	33.08
	105.00	11.24	15.65	21.18	28.23	36.87	47.59	60.61
	120.00	23.30	32.70	44.66	59.77	78.48	101.60	129.57
1.0000	60.00	4.14	5.78	7.84	10.43	13.65	17.59	22.38
	75.00	5.74	7.99	10.88	14.44	18.89	24.38	31.03
	90.00	9.10	12.72	17.32	23.10	30.31	39.17	49.90
	105.00	16.57	23.27	31.82	42.53	55.94	72.37	92.30
	120.00	35.25	49.60	68.08	91.13	120.04	155.48	198.44

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 45.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.06	3.90	4.95	6.32	8.19	10.65	13.81
	75.00	3.86	5.04	6.68	8.93	12.00	16.13	21.57
	90.00	5.83	8.03	11.11	15.48	21.54	29.82	40.82
	105.00	10.92	15.74	22.72	32.69	46.80	66.26	92.02
	120.00	25.66	38.42	57.20	84.39	122.78	175.43	245.52
.3333	60.00	4.44	6.16	8.60	12.00	16.66	23.04	31.40
	75.00	6.46	9.28	13.32	19.10	27.16	38.23	52.89
	90.00	11.43	16.96	25.01	36.67	53.05	75.61	105.61
	105.00	24.36	37.18	56.09	83.34	121.83	174.86	245.37
	120.00	63.17	98.07	149.61	223.92	328.95	473.68	666.05
.5000	60.00	5.52	8.05	11.65	16.74	23.85	33.58	46.49
	75.00	8.65	12.88	19.00	27.84	40.27	57.36	80.03
	90.00	16.18	24.66	37.14	55.02	80.33	115.23	161.61
	105.00	36.12	55.97	84.99	127.02	186.51	268.56	377.58
	120.00	96.25	149.98	229.18	343.85	506.16	730.03	999.99
.6667	60.00	7.07	10.66	15.84	23.29	33.76	48.12	67.20
	75.00	11.69	17.85	26.89	39.86	58.21	83.53	117.16
	90.00	22.86	35.37	53.70	80.23	117.79	169.59	238.43
	105.00	52.52	81.71	124.79	187.17	275.46	397.23	559.04
	120.00	141.55	221.26	338.79	508.99	749.89	999.99	999.99
1.0000	60.00	11.63	18.23	27.96	42.02	61.90	89.25	125.60
	75.00	20.64	32.16	49.32	74.13	109.13	157.34	221.43
	90.00	41.95	65.74	100.85	151.51	223.18	321.84	452.99
	105.00	98.33	154.27	236.85	355.80	524.33	756.28	999.99
	120.00	267.81	420.43	645.81	970.25	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 40.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.69	3.30	4.02	4.89	6.00	7.34	8.96
	75.00	3.21	3.99	5.00	6.27	7.86	9.84	12.25
	90.00	4.49	5.79	7.47	9.62	12.36	15.81	20.09
	105.00	7.59	10.10	13.38	17.70	23.26	30.34	39.09
	120.00	15.65	21.42	29.24	39.41	52.65	69.55	90.60
.3333	60.00	3.57	4.66	6.10	7.91	10.20	13.07	16.61
	75.00	4.75	6.35	8.43	11.11	14.57	18.95	24.35
	90.00	7.51	10.25	13.86	18.60	24.75	32.54	42.26
	105.00	14.07	19.57	26.96	36.73	49.36	65.52	85.66
	120.00	31.69	44.82	62.57	86.02	116.40	155.20	203.53
.5000	60.00	4.20	5.70	7.63	10.12	13.33	17.35	22.34
	75.00	5.92	8.11	10.99	14.77	19.63	25.85	33.55
	90.00	9.79	13.60	18.72	25.45	34.17	45.29	59.16
	105.00	19.04	26.89	37.37	51.22	69.29	92.34	121.07
	120.00	44.03	62.91	88.06	121.38	164.82	220.25	289.32
.6667	60.00	5.04	6.99	9.57	12.93	17.26	22.76	29.60
	75.00	7.41	10.34	14.26	19.39	26.07	34.60	45.20
	90.00	12.70	17.94	24.91	34.15	46.20	61.50	80.54
	105.00	25.38	36.15	50.58	69.74	94.63	126.32	165.76
	120.00	59.90	85.60	120.30	166.36	226.21	302.43	397.25
1.0000	60.00	7.25	10.40	14.63	20.20	27.44	36.68	48.19
	75.00	11.32	16.19	22.73	31.36	42.61	56.97	74.84
	90.00	20.29	29.10	40.84	56.41	76.71	102.60	134.78
	105.00	41.77	59.91	84.29	116.61	158.65	212.27	278.90
	120.00	99.98	143.55	202.19	279.95	381.04	509.92	670.14

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 40.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.66	3.28	4.01	4.91	6.04	7.42	9.11
	75.00	3.16	3.95	4.95	6.25	7.88	9.91	12.42
	90.00	4.38	5.69	7.38	9.55	12.34	15.89	20.34
	105.00	7.36	9.87	13.17	17.52	23.20	30.49	39.57
	120.00	15.11	20.90	28.74	39.03	52.55	69.92	91.76
.3333	60.00	3.50	4.60	6.04	7.89	10.22	13.18	16.85
	75.00	4.63	6.23	8.33	11.04	14.57	19.05	24.68
	90.00	7.28	10.02	13.65	18.46	24.70	32.71	42.82
	105.00	13.62	19.10	26.54	36.37	49.26	65.87	86.80
	120.00	30.60	43.74	61.62	85.19	116.18	156.12	206.30
.5000	60.00	4.10	5.60	7.55	10.07	13.33	17.47	22.66
	75.00	5.76	7.95	10.84	14.67	19.61	26.01	34.01
	90.00	9.49	13.29	18.45	25.24	34.14	45.58	59.97
	105.00	18.40	26.26	36.75	50.80	69.23	92.94	122.73
	120.00	42.60	61.38	86.60	120.37	164.70	221.71	293.35
.6667	60.00	4.91	6.86	9.45	12.86	17.26	22.94	30.03
	75.00	7.20	10.12	14.06	19.25	26.07	34.84	45.83
	90.00	12.29	17.52	24.52	33.88	46.11	61.84	81.67
	105.00	24.57	35.29	49.82	69.20	94.43	127.01	168.10
	120.00	57.83	83.53	118.48	165.08	225.76	304.08	402.88
1.0000	60.00	7.04	10.18	14.44	20.07	27.46	36.96	48.90
	75.00	10.97	15.84	22.39	31.13	42.61	57.34	75.93
	90.00	19.66	28.40	40.21	55.99	76.64	103.20	136.72
	105.00	40.44	58.49	83.03	115.70	158.44	213.47	282.90
	120.00	96.72	140.12	199.17	277.75	380.45	512.78	679.73

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 40.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.63	3.26	4.01	4.92	6.07	7.50	9.25
	75.00	3.10	3.89	4.91	6.22	7.89	9.97	12.57
	90.00	4.27	5.58	7.28	9.48	12.32	15.97	20.57
	105.00	7.13	9.63	12.97	17.35	23.13	30.59	40.02
	120.00	14.57	20.38	28.22	38.65	52.41	70.18	92.84
.3333	60.00	3.43	4.54	5.99	7.85	10.23	13.27	17.08
	75.00	4.50	6.11	8.21	10.97	14.56	19.15	24.98
	90.00	7.05	9.78	13.43	18.28	24.64	32.69	43.35
	105.00	13.15	18.63	26.13	36.02	49.16	66.22	87.89
	120.00	29.50	42.66	60.51	84.35	115.95	156.88	208.90
.5000	60.00	4.00	5.49	7.46	10.02	13.33	17.58	22.96
	75.00	5.58	7.77	10.69	14.54	19.59	26.16	34.44
	90.00	9.17	12.98	18.14	25.02	34.09	45.80	60.72
	105.00	17.76	25.58	36.14	50.37	69.13	93.38	124.29
	120.00	41.16	59.74	85.14	119.35	164.47	222.77	297.11
.6667	60.00	4.77	6.73	9.33	12.77	17.26	23.07	30.43
	75.00	6.97	9.89	13.85	19.11	26.05	35.02	46.42
	90.00	11.88	17.08	24.12	33.61	46.02	62.17	82.70
	105.00	23.72	34.42	49.04	68.52	94.24	127.69	170.22
	120.00	55.74	81.45	116.66	163.45	225.30	305.73	408.01
1.0000	60.00	6.83	9.96	14.23	19.92	27.45	37.18	49.57
	75.00	10.61	15.47	22.05	30.91	42.56	57.68	76.92
	90.00	19.00	27.71	39.53	55.53	76.52	103.79	139.49
	105.00	39.09	57.08	81.68	114.69	158.16	214.67	286.54
	120.00	93.55	136.70	195.93	275.24	379.76	515.65	688.47

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 40.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.59	3.24	4.00	4.92	6.10	7.57	9.38
	75.00	3.04	3.84	4.86	6.19	7.89	10.03	12.72
	90.00	4.15	5.47	7.18	9.42	12.29	16.04	20.80
	105.00	6.90	9.39	12.74	17.17	23.07	30.69	40.42
	120.00	14.02	19.86	27.69	38.28	52.18	70.40	93.82
.3333	60.00	3.35	4.46	5.92	7.82	10.25	13.36	17.29
	75.00	4.37	5.98	8.09	10.90	14.53	19.26	25.29
	90.00	6.82	9.55	13.22	18.10	24.58	33.05	43.85
	105.00	12.68	18.16	25.66	35.66	49.06	66.54	88.92
	120.00	28.41	41.58	59.37	83.52	115.67	157.51	211.26
.5000	60.00	3.90	5.39	7.37	9.96	13.34	17.69	23.25
	75.00	5.41	7.59	10.53	14.42	19.57	26.28	34.83
	90.00	8.86	12.67	17.83	24.79	33.99	45.99	61.41
	105.00	17.12	24.89	35.52	49.94	68.90	93.77	125.72
	120.00	39.57	58.11	83.68	118.29	163.94	223.74	300.56
.6667	60.00	4.63	6.59	9.20	12.67	17.26	23.19	30.80
	75.00	6.75	9.67	13.63	18.97	25.99	35.18	46.99
	90.00	11.47	16.64	23.73	33.28	45.93	62.50	83.73
	105.00	22.85	33.52	48.20	67.83	94.05	128.37	172.35
	120.00	53.64	79.38	114.60	161.82	224.85	307.38	413.13
1.0000	60.00	6.61	9.74	14.01	19.77	27.41	37.38	50.18
	75.00	10.25	15.12	21.70	30.67	42.49	57.98	77.88
	90.00	18.33	27.00	38.94	55.01	76.39	104.36	140.24
	105.00	37.57	55.60	80.34	113.59	157.88	215.87	290.18
	120.00	89.78	133.19	192.68	272.56	379.08	518.52	697.20

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 40.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.56	3.21	3.99	4.93	6.12	7.64	9.52
	75.00	2.98	3.78	4.82	6.16	7.89	10.08	12.86
	90.00	4.03	5.36	7.07	9.33	12.27	16.08	20.99
	105.00	6.66	9.15	12.50	17.00	23.00	30.78	40.83
	120.00	13.48	19.26	27.14	37.80	51.95	70.63	94.80
.3333	60.00	3.27	4.39	5.85	7.78	10.26	13.44	17.50
	75.00	4.24	5.85	7.98	10.80	14.50	19.35	25.55
	90.00	6.59	9.31	13.00	17.92	24.53	33.14	44.29
	105.00	12.18	17.69	25.16	35.31	48.94	66.74	89.83
	120.00	27.31	40.33	58.23	82.68	115.26	158.14	213.63
.5000	60.00	3.79	5.28	7.27	9.90	13.33	17.80	23.51
	75.00	5.24	7.42	10.37	14.29	19.55	26.40	35.23
	90.00	8.54	12.36	17.51	24.56	33.88	46.18	62.10
	105.00	16.49	24.20	34.91	49.38	68.68	94.16	127.14
	120.00	37.92	56.48	82.22	117.02	163.41	224.70	304.00
.6667	60.00	4.48	6.45	9.08	12.57	17.25	23.32	31.16
	75.00	6.51	9.44	13.40	18.78	25.92	35.34	47.51
	90.00	11.05	16.20	23.34	32.95	45.84	62.80	84.64
	105.00	21.94	32.60	47.27	67.15	93.86	128.99	174.24
	120.00	51.54	77.28	112.38	160.19	224.40	308.89	417.68
1.0000	60.00	6.39	9.51	13.79	19.62	27.36	37.58	50.80
	75.00	9.88	14.70	21.35	30.37	42.39	58.27	78.80
	90.00	17.61	26.28	38.27	54.49	76.23	104.85	141.83
	105.00	36.14	54.09	78.89	112.48	157.58	216.88	293.42
	120.00	86.32	129.54	189.12	269.89	378.37	520.97	704.97

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 40.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.51	3.18	3.97	4.94	6.15	7.70	9.65
	75.00	2.91	3.73	4.77	6.13	7.89	10.14	13.00
	90.00	3.91	5.24	6.96	9.24	12.24	16.13	21.19
	105.00	6.42	8.90	12.26	16.82	22.88	30.87	41.24
	120.00	12.94	18.66	26.59	37.32	51.71	70.85	95.78
.3333	60.00	3.19	4.32	5.79	7.73	10.25	13.52	17.71
	75.00	4.11	5.72	7.85	10.71	14.47	19.41	25.81
	90.00	6.36	9.07	12.77	17.75	24.47	33.24	44.73
	105.00	11.68	17.16	24.66	34.95	48.71	66.93	90.73
	120.00	26.17	39.08	57.09	81.80	114.84	158.76	215.98
.5000	60.00	3.68	5.17	7.17	9.82	13.31	17.87	23.77
	75.00	5.06	7.24	10.19	14.16	19.48	26.49	35.62
	90.00	8.20	12.01	17.19	24.29	33.77	46.37	62.79
	105.00	15.79	23.52	34.29	48.81	68.45	94.55	128.57
	120.00	36.27	54.84	80.67	115.66	162.88	225.66	307.24
.6667	60.00	4.33	6.29	8.94	12.48	17.21	23.44	31.53
	75.00	6.26	9.19	13.17	18.59	25.85	35.51	47.99
	90.00	10.61	15.76	22.91	32.62	45.72	62.99	85.49
	105.00	21.01	31.68	46.35	66.47	93.67	129.37	175.99
	120.00	49.42	74.98	110.17	158.56	223.95	309.80	421.92
1.0000	60.00	6.16	9.27	13.56	19.44	27.31	37.78	51.37
	75.00	9.50	14.31	20.98	30.06	42.29	58.53	79.62
	90.00	16.97	25.56	37.63	53.96	76.03	105.26	143.29
	105.00	34.61	52.58	77.63	111.38	157.13	217.65	296.44
	120.00	82.68	125.89	186.15	267.21	377.29	522.76	712.20

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 40.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.71	3.31	4.02	4.88	5.96	7.25	8.80
	75.00	3.26	4.04	5.04	6.29	7.84	9.77	12.07
	90.00	4.60	5.90	7.57	9.69	12.37	15.72	19.82
	105.00	7.80	10.32	13.58	17.84	23.32	30.18	38.57
	120.00	16.15	21.95	29.70	39.79	52.76	69.17	89.34
.3333	60.00	3.63	4.73	6.15	7.93	10.18	12.96	16.35
	75.00	4.87	6.47	8.52	11.18	14.57	18.81	24.00
	90.00	7.73	10.46	14.07	18.73	24.76	32.35	41.65
	105.00	14.51	20.04	27.38	37.02	49.45	65.13	84.40
	120.00	32.78	45.90	63.51	86.70	116.54	154.22	200.50
.5000	60.00	4.29	5.78	7.70	10.16	13.30	17.21	21.99
	75.00	6.08	8.26	11.13	14.86	19.65	25.68	33.05
	90.00	10.08	13.91	18.98	25.65	34.19	45.00	58.28
	105.00	19.67	27.50	37.98	51.65	69.35	91.74	119.25
	120.00	45.47	64.32	89.52	122.39	164.94	218.79	284.93
.6667	60.00	5.17	7.12	9.68	13.00	17.26	22.59	29.14
	75.00	7.62	10.55	14.45	19.53	26.08	34.36	44.51
	90.00	13.09	18.32	25.31	34.42	46.20	61.06	79.32
	105.00	26.19	37.02	51.35	70.23	94.62	125.40	163.24
	120.00	61.83	87.67	122.13	167.54	226.18	300.20	391.18
1.0000	60.00	7.45	10.62	14.81	20.33	27.42	36.40	47.42
	75.00	11.67	16.54	23.06	31.58	42.60	56.55	73.67
	90.00	20.91	29.72	41.43	56.83	76.72	101.83	132.69
	105.00	43.09	61.33	85.54	117.45	158.65	210.66	274.60
	120.00	103.18	146.98	205.19	281.93	381.00	506.07	659.81

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 45.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.04	3.89	4.96	6.36	8.28	10.83	14.14
	75.00	3.81	4.99	6.65	8.93	12.07	16.34	22.05
	90.00	5.71	7.90	11.02	15.43	21.64	30.18	41.73
	105.00	10.64	15.47	22.47	32.58	47.00	67.07	94.10
	120.00	24.96	37.65	56.54	84.11	123.35	177.82	251.21
.3333	60.00	4.36	6.09	8.56	11.99	16.77	23.37	32.13
	75.00	6.32	9.15	13.20	19.06	27.31	38.76	54.11
	90.00	11.14	16.65	24.78	36.60	53.26	76.59	108.07
	105.00	23.70	36.51	55.51	83.02	122.33	177.17	251.16
	120.00	61.46	96.34	148.08	223.13	330.40	480.03	681.91
.5000	60.00	5.41	7.94	11.56	16.73	24.00	34.04	47.58
	75.00	8.45	12.66	18.84	27.75	40.44	58.12	81.92
	90.00	15.76	24.24	36.76	54.88	80.75	116.76	165.48
	105.00	35.16	54.89	84.09	126.70	187.50	272.16	386.68
	120.00	93.60	147.10	226.77	343.02	508.94	739.91	999.99
.6667	60.00	6.91	10.49	15.72	23.24	33.93	48.78	68.82
	75.00	11.40	17.56	26.63	39.77	58.53	84.65	119.98
	90.00	22.26	34.71	53.14	80.04	118.44	171.88	244.19
	105.00	51.06	80.16	123.49	186.73	276.98	402.62	572.59
	120.00	137.65	217.05	335.29	507.84	754.08	999.99	999.99
1.0000	60.00	11.35	17.94	27.72	41.99	62.22	90.50	128.65
	75.00	20.02	31.62	48.87	73.92	109.65	159.51	226.77
	90.00	40.86	64.60	99.89	151.09	224.23	326.25	463.89
	105.00	95.76	151.61	234.58	354.88	526.80	766.63	999.99
	120.00	260.76	413.23	638.79	967.78	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 45.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.02	3.88	4.96	6.40	8.36	10.99	14.46
	75.00	3.76	4.95	6.61	8.93	12.13	16.54	22.50
	90.00	5.58	7.78	10.93	15.38	21.74	30.54	42.57
	105.00	10.36	15.20	22.22	32.46	47.20	67.89	96.10
	120.00	24.21	36.88	55.88	83.83	123.72	179.83	256.69
.3333	60.00	4.29	6.02	8.50	11.98	16.88	23.66	32.83
	75.00	6.17	9.01	13.09	19.02	27.41	39.21	55.27
	90.00	10.83	16.34	24.54	36.45	53.47	77.50	110.42
	105.00	23.03	35.83	54.84	82.69	122.83	179.31	256.69
	120.00	59.74	94.62	146.30	222.31	331.82	485.92	697.05
.5000	60.00	5.30	7.83	11.47	16.71	24.11	34.46	48.63
	75.00	8.24	12.44	18.68	27.66	40.62	58.85	83.67
	90.00	15.33	23.82	36.34	54.74	81.17	118.29	169.02
	105.00	34.20	53.81	83.19	126.37	188.50	275.76	395.03
	120.00	90.79	144.21	224.36	342.19	511.71	749.79	999.99
.6667	60.00	6.75	10.32	15.60	23.18	34.10	49.43	70.30
	75.00	11.10	17.27	26.36	39.69	58.85	85.77	122.57
	90.00	21.67	34.04	52.59	79.86	119.08	174.17	249.48
	105.00	49.54	78.60	122.20	186.29	278.50	408.01	585.03
	120.00	133.56	212.84	331.79	506.68	758.27	999.99	999.99
1.0000	60.00	11.06	17.62	27.46	41.87	62.53	91.65	131.55
	75.00	19.49	31.08	48.37	73.69	110.18	161.52	231.87
	90.00	39.75	63.42	98.79	150.62	225.28	330.35	474.31
	105.00	93.16	148.82	231.90	353.74	529.25	776.24	999.99
	120.00	253.71	405.58	632.21	964.63	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 45.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.99	3.87	4.97	6.42	8.43	11.15	14.76
	75.00	3.70	4.90	5.57	8.93	12.19	16.73	22.94
	90.00	5.46	7.66	10.82	15.33	21.83	30.89	43.41
	105.00	10.09	14.89	21.97	32.35	47.40	68.65	97.94
	120.00	23.45	36.11	55.22	83.46	124.10	181.81	261.73
.3333	60.00	4.22	5.95	8.45	11.97	16.99	23.95	33.48
	75.00	6.01	8.86	12.97	18.97	27.51	39.65	56.36
	90.00	10.53	16.03	24.25	36.29	53.68	78.41	112.60
	105.00	22.37	35.13	54.16	82.37	123.33	181.45	261.84
	120.00	58.03	92.57	144.51	221.49	333.24	491.81	711.15
.5000	60.00	5.18	7.72	11.38	16.68	24.22	34.88	49.60
	75.00	8.03	12.21	18.47	27.57	40.79	59.56	85.41
	90.00	14.91	23.33	35.90	54.54	81.59	119.76	172.56
	105.00	33.19	52.74	82.28	126.05	189.50	279.24	403.37
	120.00	87.98	141.33	221.95	341.36	514.48	759.33	999.99
.6667	60.00	6.59	10.15	15.44	23.12	34.27	50.07	71.79
	75.00	10.81	16.93	26.06	39.60	59.17	86.86	125.16
	90.00	21.04	33.38	52.04	79.67	119.73	176.38	254.76
	105.00	48.03	77.05	120.90	185.86	280.03	413.22	597.45
	120.00	129.46	208.64	328.29	505.52	762.30	999.99	999.99
1.0000	60.00	10.78	17.30	27.20	41.74	62.84	92.81	134.26
	75.00	18.95	30.50	47.83	73.47	110.70	163.54	236.62
	90.00	38.59	62.21	97.66	150.14	226.33	334.45	483.99
	105.00	90.43	145.82	229.22	352.59	531.69	785.85	999.99
	120.00	246.24	397.24	624.86	961.48	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 45.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.96	3.85	4.98	6.45	8.51	11.30	15.05
	75.00	3.64	4.84	6.53	8.93	12.25	16.93	23.36
	90.00	5.34	7.53	10.70	15.27	21.88	31.18	44.19
	105.00	9.81	14.57	21.72	32.24	47.48	69.34	99.73
	120.00	22.70	35.34	54.57	83.04	124.47	183.79	266.66
.3333	60.00	4.13	5.88	8.40	11.96	17.06	24.23	34.11
	75.00	5.86	8.71	12.85	18.90	27.62	40.09	57.44
	90.00	10.23	15.72	23.95	36.13	53.89	79.31	114.79
	105.00	21.70	34.35	53.49	82.05	123.83	183.59	266.98
	120.00	56.21	90.52	142.73	220.67	334.65	497.70	725.24
.5000	60.00	5.07	7.60	11.28	16.64	24.33	35.30	50.57
	75.00	7.82	11.99	18.25	27.48	40.97	60.22	87.03
	90.00	14.48	22.83	35.47	54.35	81.80	121.00	175.87
	105.00	32.14	51.66	81.38	125.73	190.02	282.17	411.15
	120.00	85.17	138.44	219.54	340.53	515.96	767.38	999.99
.6667	60.00	6.43	9.98	15.28	23.06	34.43	50.60	73.17
	75.00	10.50	16.59	25.77	39.47	59.35	87.78	127.57
	90.00	20.39	32.72	51.48	79.48	120.07	178.25	259.69
	105.00	46.52	75.50	119.61	185.37	280.85	417.61	609.04
	120.00	125.37	204.43	324.79	503.91	764.74	999.99	999.99
1.0000	60.00	10.48	16.98	26.90	41.61	63.16	93.97	136.97
	75.00	18.39	29.92	47.28	73.25	111.23	165.55	241.36
	90.00	37.44	60.93	96.52	149.66	227.38	338.54	493.68
	105.00	87.70	142.85	226.53	351.44	534.14	795.46	999.99
	120.00	238.76	389.19	617.50	958.33	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 45.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.93	3.84	4.98	6.48	8.58	11.44	15.34
	75.00	3.58	4.79	6.48	8.91	12.31	17.12	23.76
	90.00	5.21	7.41	10.59	15.22	21.93	31.47	44.94
	105.00	9.51	14.26	21.46	32.04	47.57	69.99	101.53
	120.00	21.95	34.56	53.91	82.61	124.84	185.76	271.58
.3333	60.00	4.05	5.80	8.34	11.95	17.13	24.51	34.75
	75.00	5.71	8.55	12.73	18.84	27.72	40.53	58.52
	90.00	9.92	15.41	23.64	35.97	54.10	80.22	116.97
	105.00	21.04	33.58	52.81	81.73	124.33	185.68	272.04
	120.00	54.22	88.46	140.94	219.84	335.93	502.89	738.52
.5000	60.00	4.95	7.48	11.18	16.60	24.43	35.72	51.55
	75.00	7.59	11.77	18.04	27.39	41.14	60.83	88.58
	90.00	14.05	22.34	35.04	54.15	82.02	122.25	179.02
	105.00	31.09	50.58	80.46	125.06	190.54	285.10	418.57
	120.00	82.36	135.56	217.13	338.77	517.42	775.43	999.99
.6667	60.00	6.26	9.80	15.11	23.01	34.59	51.14	74.50
	75.00	10.18	16.24	25.47	39.32	59.52	88.70	129.88
	90.00	19.74	32.05	50.93	79.08	120.41	180.12	264.38
	105.00	45.01	73.94	118.31	184.48	281.66	422.01	620.10
	120.00	121.27	200.22	321.10	501.82	766.97	999.99	999.99
1.0000	60.00	10.14	16.67	26.59	41.47	63.43	95.08	139.67
	75.00	17.82	29.28	46.74	73.03	111.75	167.55	246.08
	90.00	36.26	59.61	95.39	149.18	228.42	342.39	503.23
	105.00	84.79	139.73	223.84	350.30	536.51	804.41	999.99
	120.00	230.69	380.64	610.14	955.18	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 45.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	2.90	3.82	4.98	6.51	8.65	11.59	15.64
	75.00	3.52	4.73	6.44	8.90	12.37	17.28	24.16
	90.00	5.07	7.28	10.47	15.17	21.98	31.76	45.68
	105.00	9.21	13.94	21.18	31.84	47.65	70.65	103.33
	120.00	21.20	33.79	53.19	82.18	125.22	187.74	276.51
.3333	60.00	3.97	5.72	8.28	11.94	17.20	24.77	35.39
	75.00	5.56	8.38	12.59	18.77	27.82	40.97	59.48
	90.00	9.61	15.09	23.34	35.81	54.31	80.96	118.91
	105.00	20.29	32.81	52.14	81.41	124.79	187.46	276.68
	120.00	52.24	86.41	139.16	219.02	336.81	508.04	751.59
.5000	60.00	4.82	7.35	11.07	16.55	24.54	36.07	52.41
	75.00	7.35	11.54	17.82	27.30	41.29	61.45	90.13
	90.00	13.58	21.84	34.61	53.87	82.23	123.49	182.17
	105.00	29.98	49.43	79.45	124.38	191.05	288.03	425.99
	120.00	79.55	132.67	214.45	336.96	518.87	783.49	999.99
.6667	60.00	6.08	9.63	14.95	22.95	34.71	51.68	75.82
	75.00	9.87	15.90	25.17	39.12	59.69	89.61	132.18
	90.00	19.06	31.36	50.31	78.66	120.75	181.99	269.08
	105.00	43.49	72.39	116.82	183.51	282.46	426.40	631.15
	120.00	117.18	196.01	316.94	499.22	769.19	999.99	999.99
1.0000	60.00	9.83	16.34	26.28	41.34	63.68	96.08	142.08
	75.00	17.25	28.65	46.20	72.79	112.17	169.21	250.32
	90.00	34.99	58.29	94.25	148.70	229.30	345.99	511.96
	105.00	81.83	136.60	221.15	349.15	538.66	812.87	999.99
	120.00	222.66	372.10	602.79	952.03	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 50.00 XK= 0 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.48	4.65	6.22	8.50	11.95	17.03	24.25
	75.00	4.63	6.43	9.23	13.52	20.11	30.16	44.72
	90.00	7.55	11.40	17.50	27.27	42.66	66.09	100.62
	105.00	15.98	25.76	42.10	68.35	110.02	174.03	268.41
	120.00	43.72	74.33	125.44	208.68	340.86	543.61	842.17
.3333	60.00	5.54	8.34	12.82	19.82	30.78	47.39	71.77
	75.00	8.91	14.22	22.94	36.93	58.97	92.92	142.79
	90.00	18.02	30.30	50.52	83.51	136.00	216.75	335.41
	105.00	45.26	78.28	133.48	223.64	367.08	587.78	912.04
	120.00	138.29	243.02	418.13	704.10	999.99	999.99	999.99
.5000	60.00	7.39	11.95	19.26	31.07	49.57	78.05	119.89
	75.00	13.12	22.05	36.68	60.52	98.45	156.82	242.57
	90.00	28.68	49.47	84.20	140.92	230.94	369.56	573.53
	105.00	75.20	131.89	226.70	381.44	627.30	999.99	999.99
	120.00	234.22	414.05	714.80	999.99	999.99	999.99	999.99
.6667	60.00	10.32	17.42	29.22	48.18	78.40	124.91	193.24
	75.00	19.69	34.00	57.84	96.78	158.64	253.82	393.87
	90.00	45.08	78.97	135.65	228.14	375.09	601.53	934.71
	105.00	120.84	213.45	368.32	621.08	999.99	999.99	999.99
	120.00	380.67	674.41	999.99	999.99	999.99	999.99	999.99
1.0000	60.00	20.18	35.65	61.62	104.01	171.35	275.11	427.79
	75.00	41.27	73.10	126.33	213.20	351.22	563.90	876.83
	90.00	98.06	173.77	300.41	507.06	835.42	999.99	999.99
	105.00	267.69	474.61	820.67	999.99	999.99	999.99	999.99
	120.00	848.58	999.99	999.99	999.99	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 50.00 XK= .05 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.47	4.65	6.25	8.58	12.11	17.38	25.01
	75.00	4.58	6.38	9.21	13.56	20.33	30.74	46.11
	90.00	7.41	11.25	17.41	27.33	43.07	67.41	103.82
	105.00	15.63	25.40	41.78	68.38	111.10	177.63	277.12
	120.00	42.67	73.25	124.48	208.86	344.37	554.64	869.73
.3333	60.00	5.47	8.27	12.78	19.90	31.11	48.37	74.07
	75.00	8.75	14.05	22.82	36.98	59.55	94.78	147.42
	90.00	17.62	29.89	50.18	83.64	137.35	221.16	346.38
	105.00	44.14	77.08	132.60	224.02	370.81	599.84	942.06
	120.00	134.85	239.32	415.44	705.43	999.99	999.99	999.99
.5000	60.00	7.26	11.81	19.18	31.12	50.08	79.63	123.78
	75.00	12.84	21.76	36.45	60.63	99.44	160.01	250.51
	90.00	28.05	48.72	83.65	141.17	233.52	377.03	592.40
	105.00	73.39	130.02	225.48	382.58	634.43	999.99	999.99
	120.00	228.78	408.35	711.11	999.99	999.99	999.99	999.99
.6667	60.00	10.12	17.20	29.04	48.28	79.21	127.47	199.59
	75.00	19.27	33.50	57.48	96.97	160.37	258.97	406.85
	90.00	43.98	77.82	134.87	228.81	379.37	613.78	965.58
	105.00	118.05	210.52	366.44	623.02	999.99	999.99	999.99
	120.00	371.90	665.22	999.99	999.99	999.99	999.99	999.99
1.0000	60.00	19.69	35.20	61.34	104.36	173.35	280.76	441.98
	75.00	40.35	72.13	125.71	213.90	355.29	575.45	905.88
	90.00	95.83	171.44	298.92	508.70	845.07	999.99	999.99
	105.00	261.58	468.21	816.58	999.99	999.99	999.99	999.99
	120.00	829.18	999.99	999.99	999.99	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 50.00 XK= .10 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.45	4.65	6.28	8.65	12.27	17.72	25.74
	75.00	4.52	6.34	9.19	13.60	20.55	31.32	47.44
	90.00	7.27	11.13	17.33	27.39	43.44	68.64	106.88
	105.00	15.27	25.03	41.45	68.41	112.08	180.95	285.45
	120.00	41.63	72.02	123.52	209.03	347.55	564.91	896.59
.3333	60.00	5.38	8.20	12.73	19.98	31.42	49.29	76.31
	75.00	8.57	13.88	22.68	37.02	60.13	96.51	151.92
	90.00	17.22	29.41	49.85	83.77	138.70	225.26	357.07
	105.00	43.01	75.87	131.71	224.41	374.54	611.09	971.32
	120.00	131.40	235.62	412.74	706.77	999.99	999.99	999.99
.5000	60.00	7.12	11.66	19.11	31.18	50.58	81.10	127.58
	75.00	12.56	21.43	36.22	60.73	100.44	162.99	258.10
	90.00	27.37	47.98	83.11	141.42	235.87	384.51	610.33
	105.00	71.53	128.02	224.03	383.40	641.51	999.99	999.99
	120.00	223.34	402.65	707.25	999.99	999.99	999.99	999.99
.6667	60.00	9.89	16.99	28.86	48.38	80.02	129.87	205.72
	75.00	18.84	33.01	57.12	97.16	162.00	264.12	419.18
	90.00	42.88	76.64	134.02	229.26	383.51	626.02	994.91
	105.00	115.26	207.57	364.36	624.65	999.99	999.99	999.99
	120.00	363.13	656.04	999.99	999.99	999.99	999.99	999.99
1.0000	60.00	19.25	34.74	61.05	104.72	175.35	286.41	455.45
	75.00	39.42	71.16	125.10	214.60	359.35	587.00	933.47
	90.00	93.61	169.11	297.43	510.26	854.71	999.99	999.99
	105.00	255.47	461.80	812.48	999.99	999.99	999.99	999.99
	120.00	809.77	999.99	999.99	999.99	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 50.00 XK= .15 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.43	4.65	6.31	8.73	12.42	18.06	25.45
	75.00	4.47	6.29	9.17	13.65	20.77	31.89	48.77
	90.00	7.14	10.98	17.24	27.46	43.81	69.80	109.93
	105.00	14.89	24.67	41.13	68.44	113.06	184.08	293.75
	120.00	40.55	70.79	122.56	209.20	350.73	575.19	921.84
.3333	60.00	5.30	8.12	12.69	20.06	31.72	50.15	78.42
	75.00	8.38	13.71	22.54	37.06	60.71	98.25	156.16
	90.00	16.82	28.94	49.51	83.89	140.05	229.36	367.13
	105.00	41.89	74.67	130.83	224.79	378.26	622.33	999.99
	120.00	127.95	231.93	410.05	708.11	999.99	999.99	999.99
.5000	60.00	6.99	11.52	19.03	31.24	51.09	82.58	131.16
	75.00	12.28	21.11	35.99	60.84	101.43	165.97	265.45
	90.00	26.67	47.23	82.56	141.68	238.23	391.78	627.82
	105.00	69.67	126.03	222.57	384.13	647.99	999.99	999.99
	120.00	217.74	396.51	702.74	999.99	999.99	999.99	999.99
.6667	60.00	9.67	16.78	28.67	48.49	80.83	132.26	211.59
	75.00	18.36	32.51	56.76	97.35	163.63	269.05	431.20
	90.00	41.78	75.46	133.16	229.71	387.40	638.17	999.99
	105.00	112.33	204.38	362.05	625.91	999.99	999.99	999.99
	120.00	354.35	646.31	999.99	999.99	999.99	999.99	999.99
1.0000	60.00	18.78	34.23	60.70	104.98	177.31	292.05	468.60
	75.00	38.50	70.18	124.42	215.19	362.92	598.41	960.38
	90.00	91.38	166.77	295.84	511.79	863.07	999.99	999.99
	105.00	249.36	455.40	808.19	999.99	999.99	999.99	999.99
	120.00	790.37	999.99	999.99	999.99	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 50.00 XK= .20 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.40	4.64	6.33	8.79	12.58	18.40	27.16
	75.00	4.41	6.25	9.14	13.69	20.96	32.43	49.99
	90.00	7.00	10.82	17.15	27.49	44.18	70.96	112.72
	105.00	14.51	24.30	40.81	68.48	114.05	187.21	301.34
	120.00	39.41	69.56	121.60	209.37	353.92	585.46	946.43
.3333	60.00	5.21	8.05	12.64	20.12	32.03	51.01	80.47
	75.00	8.19	13.52	22.39	37.11	61.28	99.98	160.28
	90.00	16.41	28.47	49.17	84.02	141.40	233.46	376.92
	105.00	40.77	73.47	129.94	225.18	381.99	633.58	999.99
	120.00	124.51	228.23	407.35	709.45	999.99	999.99	999.99
.5000	60.00	6.85	11.37	18.95	31.29	51.59	84.05	134.64
	75.00	12.01	20.78	35.76	60.95	102.42	168.95	272.63
	90.00	25.95	46.49	82.01	141.93	240.59	398.86	645.31
	105.00	67.81	124.03	221.12	364.87	654.47	999.99	999.99
	120.00	211.94	390.28	698.23	999.99	999.99	999.99	999.99
.6667	60.00	9.45	16.55	28.49	48.59	81.64	134.65	217.26
	75.00	17.88	32.01	56.40	97.54	165.26	273.92	443.22
	90.00	40.68	74.28	132.31	230.16	391.28	649.78	999.99
	105.00	109.36	201.18	359.74	627.17	999.99	999.99	999.99
	120.00	344.99	636.25	999.99	999.99	999.99	999.99	999.99
1.0000	60.00	18.32	33.73	60.34	105.23	178.87	297.24	481.75
	75.00	37.52	69.11	123.66	215.66	366.41	609.03	987.30
	90.00	89.09	164.24	294.00	512.87	871.35	999.99	999.99
	105.00	243.13	448.50	803.13	999.99	999.99	999.99	999.99
	120.00	770.63	999.99	999.99	999.99	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 50.00 XK= .25 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.38	4.63	6.35	8.85	12.73	18.73	27.86
	75.00	4.35	6.20	9.12	13.74	21.14	32.95	51.21
	90.00	6.85	10.67	17.04	27.48	44.55	72.11	115.51
	105.00	14.13	23.94	40.48	68.51	115.03	190.34	308.94
	120.00	38.27	68.33	120.64	209.54	357.10	595.74	971.03
.3333	60.00	5.13	7.96	12.60	20.15	32.33	51.87	82.53
	75.00	8.00	13.33	22.25	37.15	61.86	101.72	164.41
	90.00	16.00	28.00	48.83	84.15	142.75	237.56	386.71
	105.00	39.65	72.27	129.05	225.57	385.72	644.82	999.99
	120.00	121.06	224.54	404.65	710.79	999.99	999.99	999.99
.5000	60.00	6.71	11.22	18.84	31.35	52.10	85.53	138.12
	75.00	11.72	20.45	35.53	61.06	103.41	171.93	279.72
	90.00	25.23	45.74	81.47	142.19	242.89	405.65	662.35
	105.00	65.95	122.04	219.67	385.60	660.18	999.99	999.99
	120.00	206.14	384.05	693.73	999.99	999.99	999.99	999.99
.6667	60.00	9.22	16.31	28.31	48.70	82.44	137.04	222.93
	75.00	17.40	31.52	56.04	97.73	166.90	278.68	454.85
	90.00	39.59	73.11	131.45	230.62	394.81	660.68	999.99
	105.00	106.38	197.99	357.43	628.33	999.99	999.99	999.99
	120.00	335.62	626.18	999.99	999.99	999.99	999.99	999.99
1.0000	60.00	17.85	33.22	59.98	105.32	180.58	302.41	494.32
	75.00	36.53	68.04	122.90	215.63	369.90	619.65	999.99
	90.00	86.71	161.67	292.16	512.63	879.63	999.99	999.99
	105.00	236.59	441.46	798.07	999.99	999.99	999.99	999.99
	120.00	749.84	999.99	999.99	999.99	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

COEFFICIENTS OF PASSIVE EARTH PRESSURE

 * PHI= 50.00 XK= .30 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- KP-VALUES ---						
0	60.00	3.35	4.63	6.37	8.91	12.88	19.07	28.51
	75.00	4.29	6.15	9.08	13.78	21.31	33.45	52.43
	90.00	6.69	10.52	16.91	27.48	44.93	73.27	118.30
	105.00	13.75	23.52	40.16	68.54	116.01	193.48	316.53
	120.00	37.13	67.10	119.68	209.71	360.28	606.02	999.99
.3333	60.00	5.04	7.88	12.55	20.18	32.64	52.74	84.58
	75.00	7.81	13.14	22.10	37.19	62.44	103.45	168.54
	90.00	15.57	27.52	48.50	84.28	144.10	241.67	396.51
	105.00	38.52	71.07	128.17	225.95	389.44	656.07	999.99
	120.00	117.61	220.84	401.96	712.13	999.99	999.99	999.99
.5000	60.00	6.56	11.08	18.71	31.40	52.60	87.00	141.60
	75.00	11.42	20.12	35.30	61.16	104.40	174.78	286.63
	90.00	24.51	45.00	80.92	142.44	244.85	412.10	678.19
	105.00	64.09	120.05	218.22	385.71	665.59	999.99	999.99
	120.00	200.35	377.83	689.06	999.99	999.99	999.99	999.99
.6667	60.00	9.00	16.06	28.13	48.80	83.25	139.40	228.54
	75.00	16.92	31.02	55.68	97.92	168.29	283.13	465.84
	90.00	38.49	71.93	130.59	230.77	398.06	671.26	999.99
	105.00	103.41	194.79	355.12	628.50	999.99	999.99	999.99
	120.00	326.25	616.11	999.99	999.99	999.99	999.99	999.99
1.0000	60.00	17.53	32.72	59.58	105.44	182.10	307.29	506.47
	75.00	35.54	66.98	121.85	215.95	373.08	629.68	999.99
	90.00	84.32	159.11	289.51	513.42	887.25	999.99	999.99
	105.00	230.04	434.42	790.66	999.99	999.99	999.99	999.99
	120.00	729.04	999.99	999.99	999.99	999.99	999.99	999.99

* REMARK: THE KP-VALUE IS OVER 1000 WHEN 999.99 APPEARS

APPENDIX B

CHARTS REQUIRED FOR APPLICATION OF EARTH
PRESSURE TABLES AND N_{Ac} - AND N_{pc} - TABLES

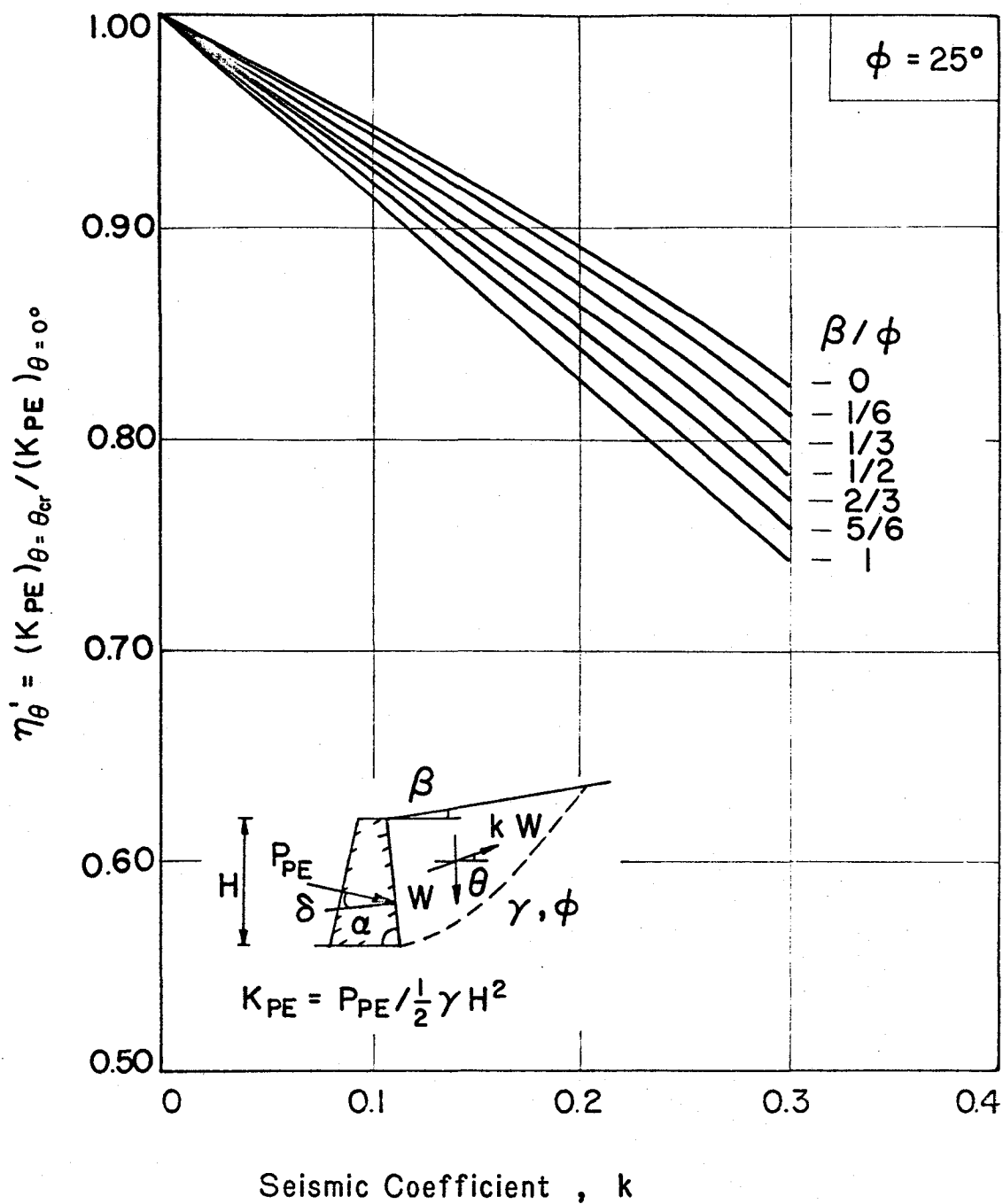


Fig. A-1 Correction Factors for Estimating $(K_{PE})_{\theta=\theta_{cr}}$ from $(K_{PE})_{\theta=0^\circ}$, ($\phi = 25^\circ$)

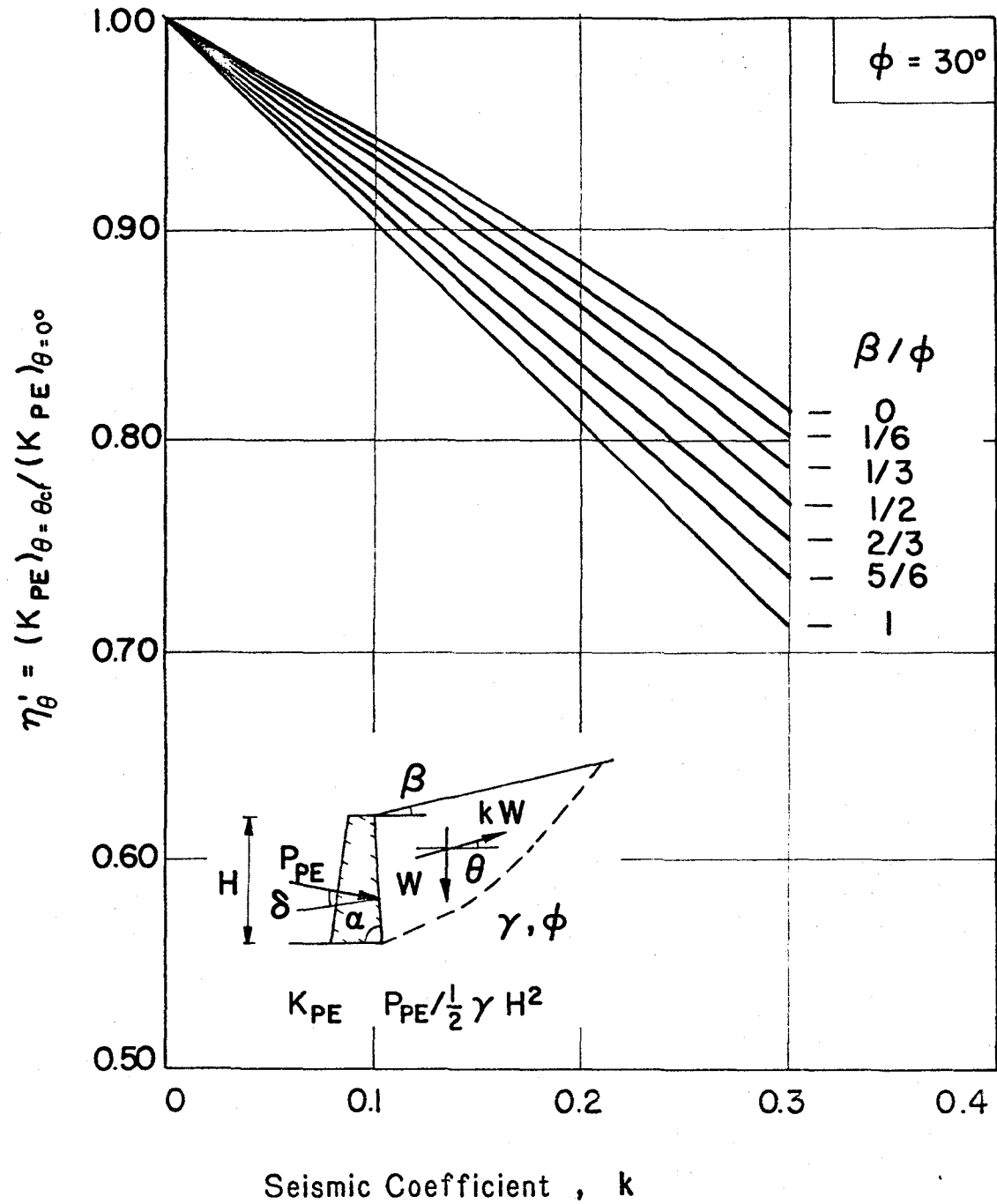


Fig. A-2 Correction Factor for Estimating $(K_{PE})_{\theta=\theta_{cr}}$ from $(K_{PE})_{\theta=0^\circ}$, ($\phi = 30^\circ$)

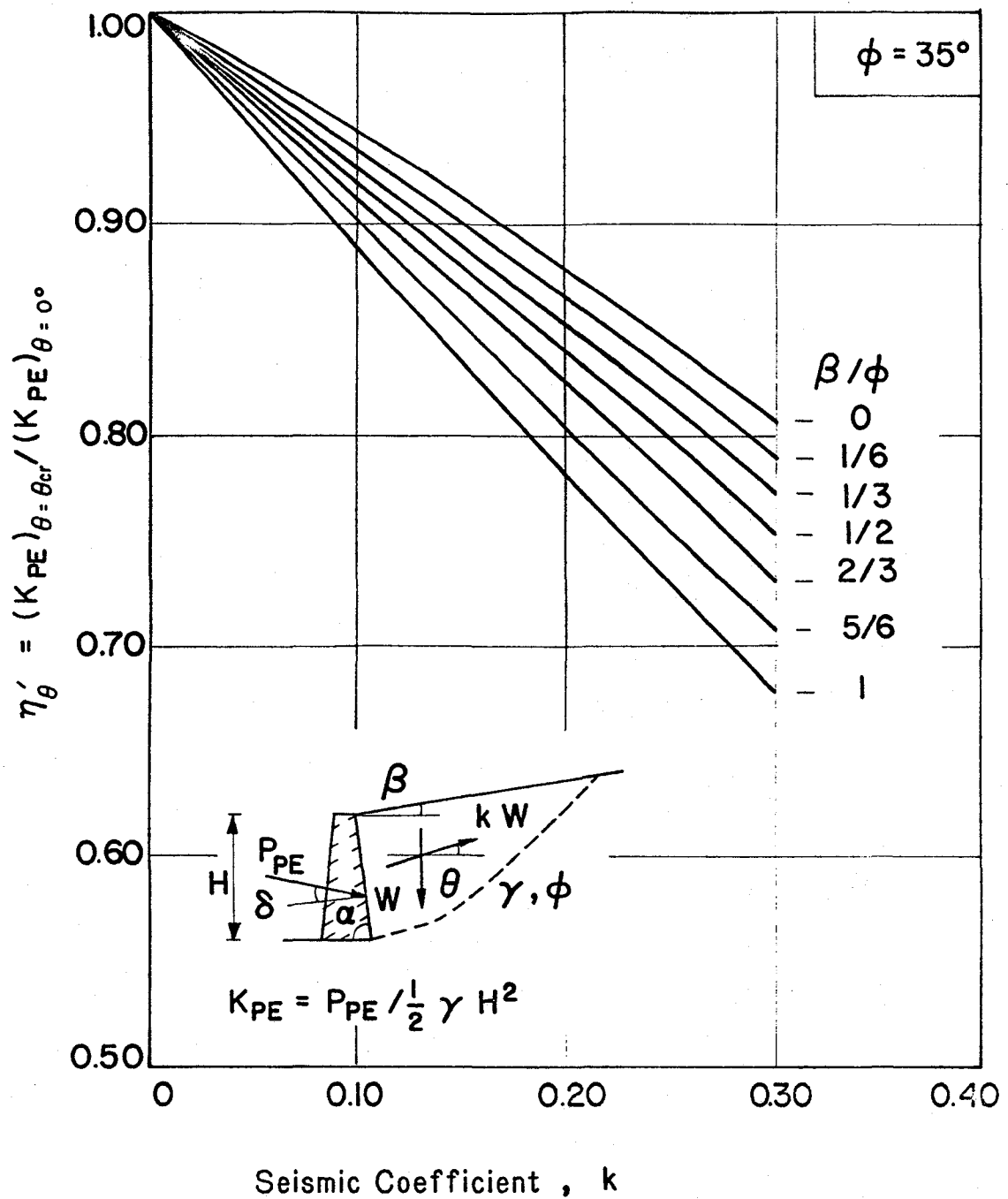


Fig. A-3 Correction Factors for Estimating $(K_{PE})_{\theta = \theta_{cr}}$ from $(K_{PE})_{\theta = 0^\circ}$, ($\phi = 35^\circ$)

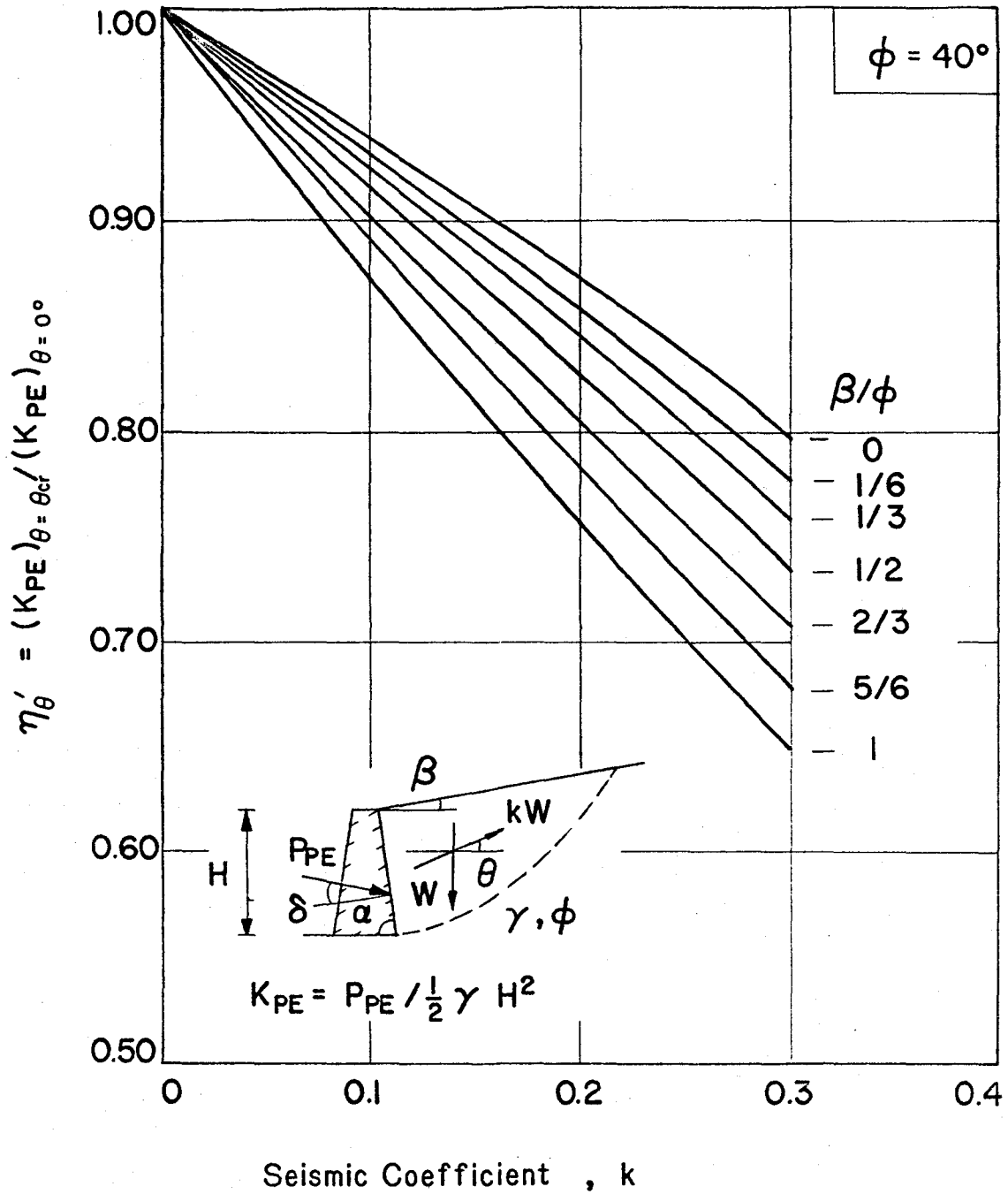


Fig. A-4 Correction Factors for Estimating $(K_{PE})_{\theta = \theta_{cr}}$ from $(K_{PE})_{\theta = 0}$, $(\phi = 40^\circ)$

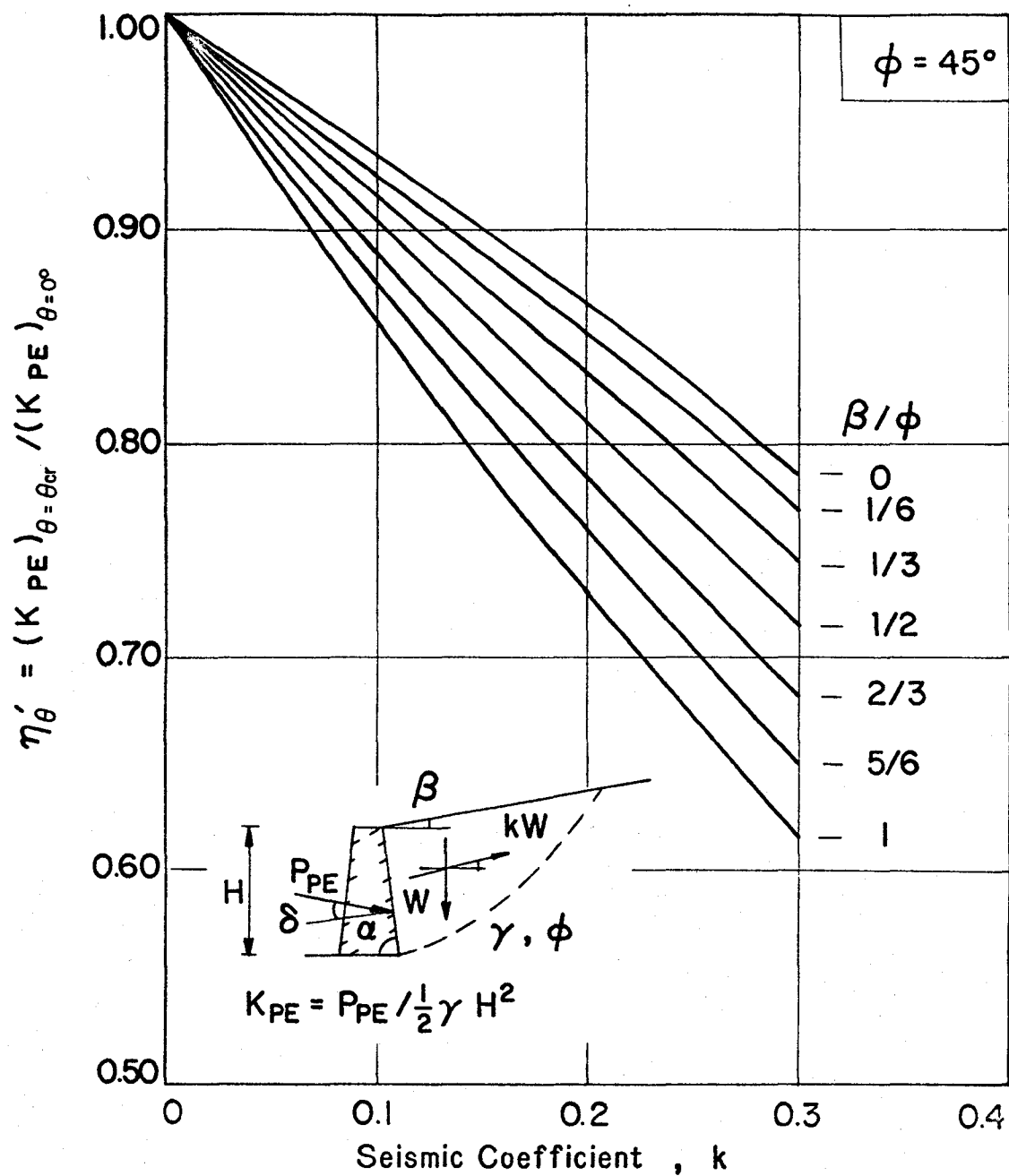


Fig. A-5 Correction Factors for Estimating $(K_{PE})_{\theta = \theta_{cr}}$ from $(K_{PE})_{\theta = 0^\circ}$, $(\phi = 45^\circ)$

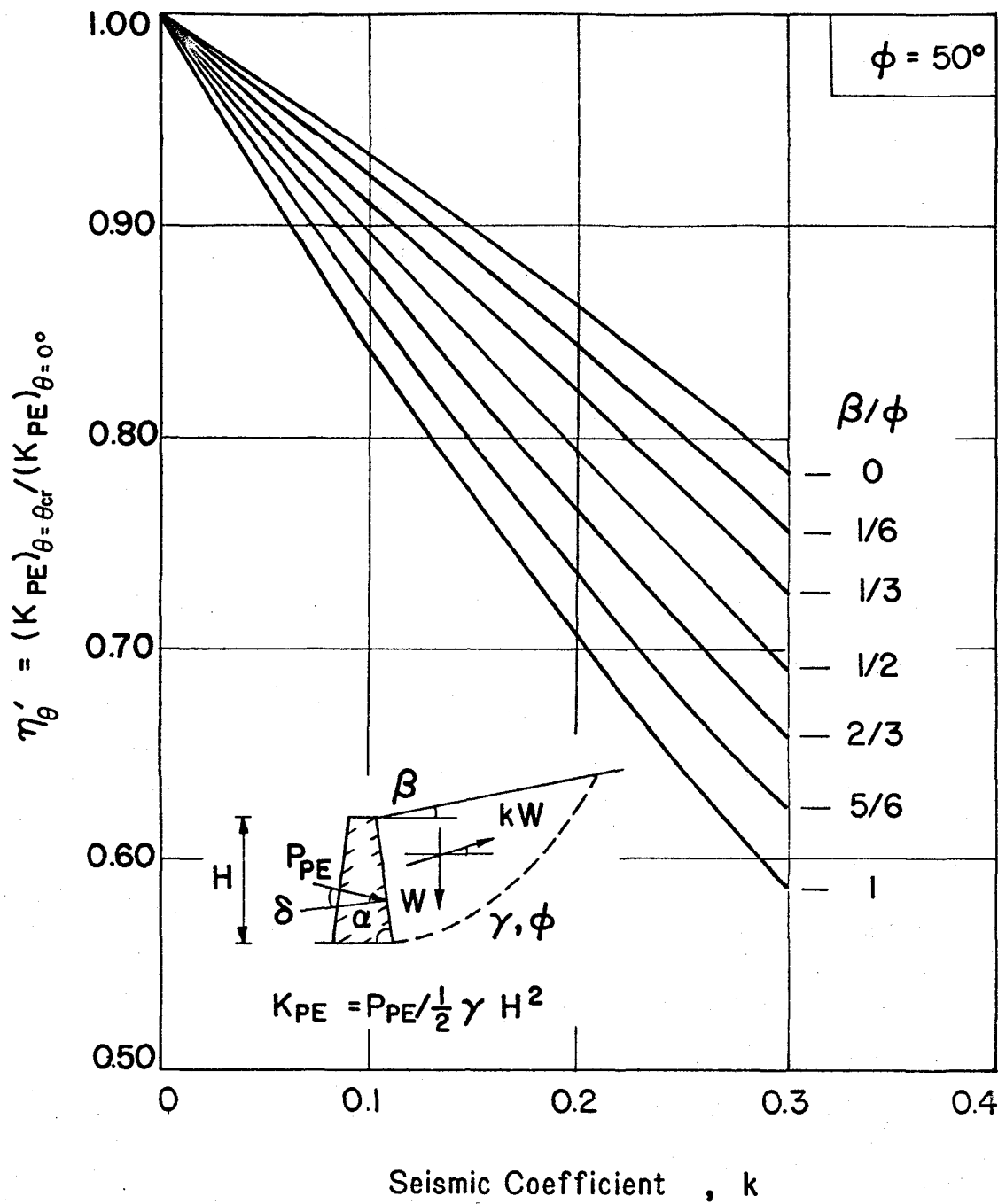


Fig. A-6 Correction Factor for Estimating $(K_{PE})_{\theta = \theta_{cr}}$ from $(K_{PE})_{\theta = 0^\circ}$, ($\phi = 50^\circ$)

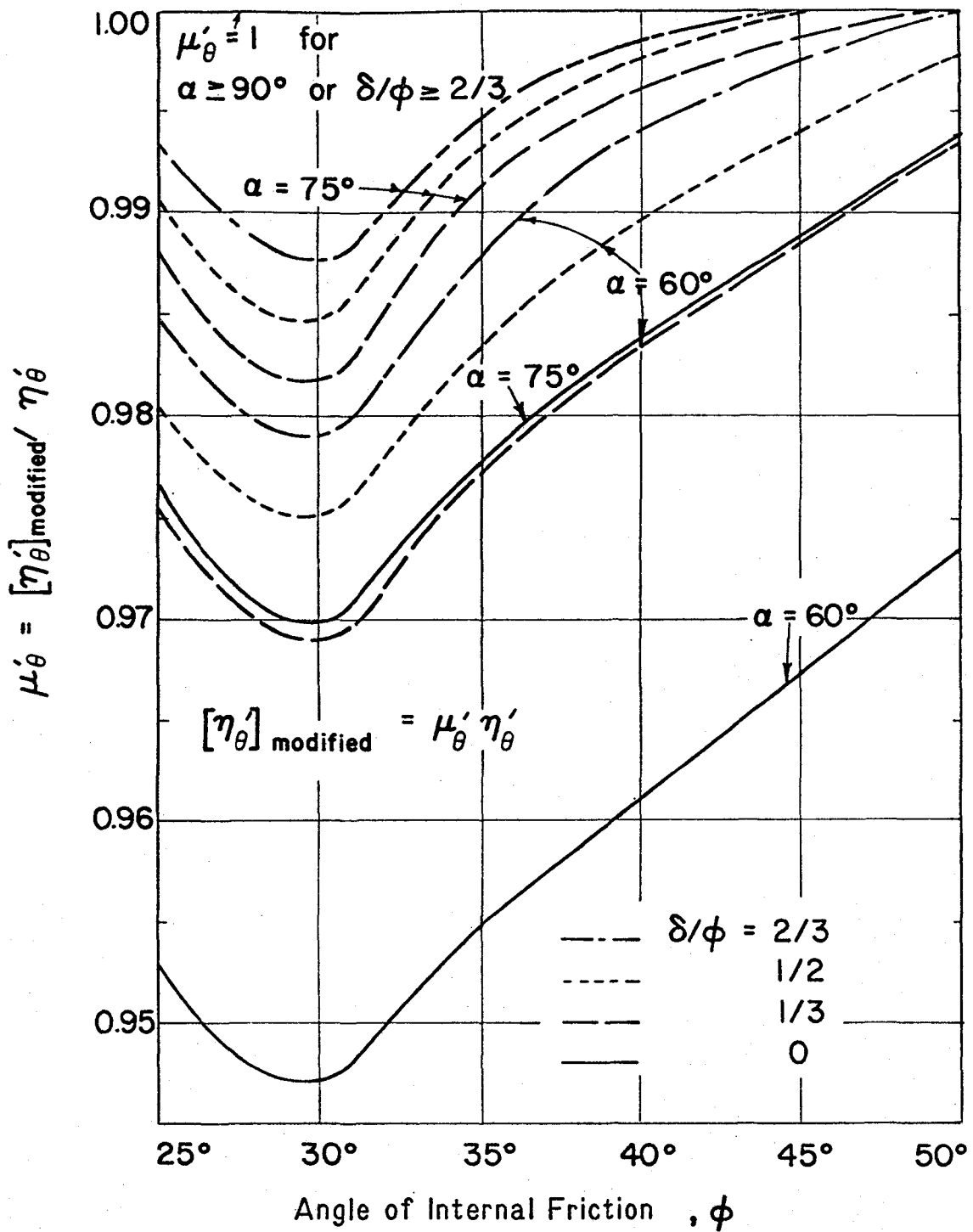


Fig. A-7 Modification Factor for η'_{θ} When $\alpha < 90^{\circ}$ and $\delta \leq 2/3 \phi$

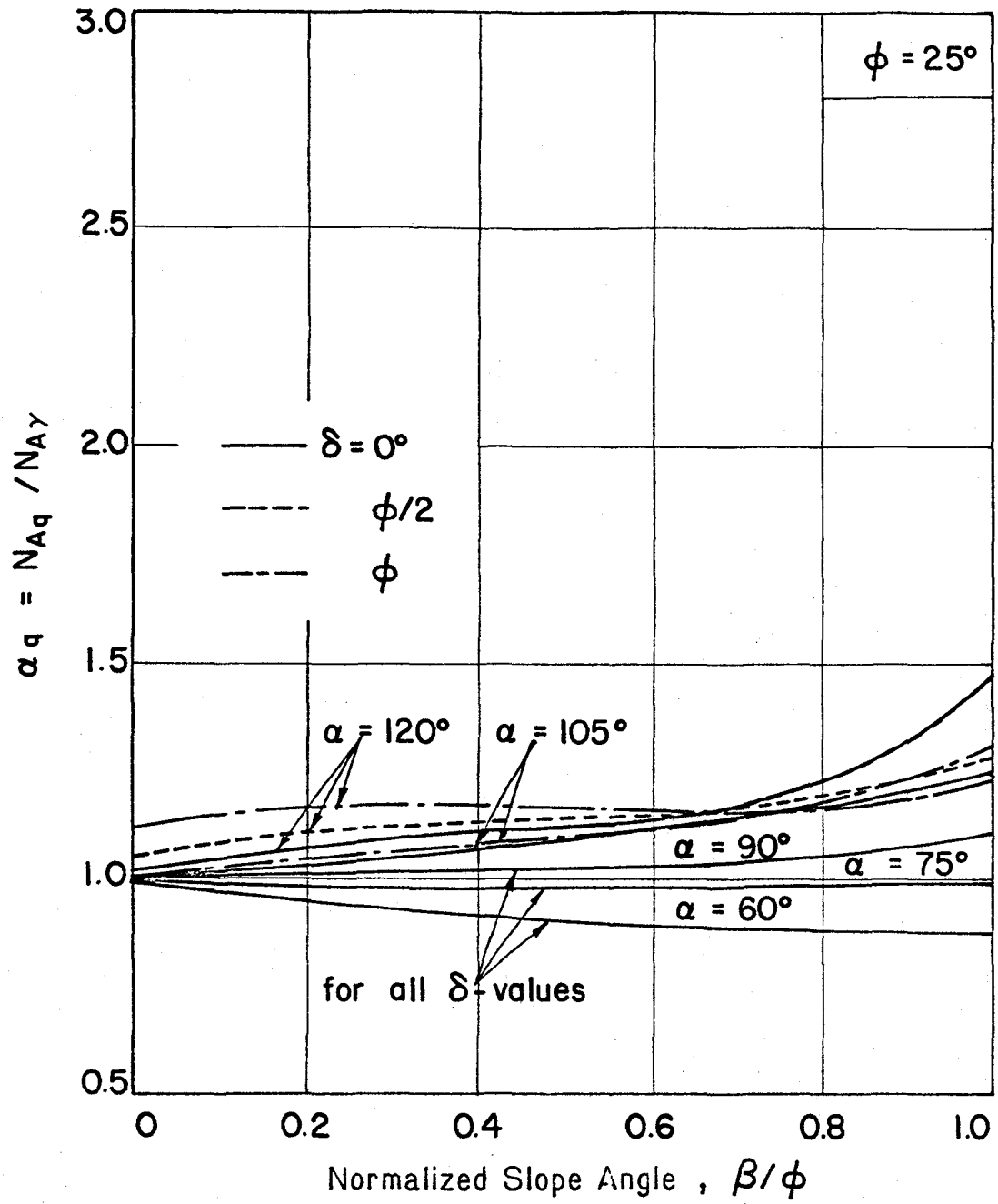


Fig. A-8 Correlation Factor α_q ($\phi = 25^\circ$)

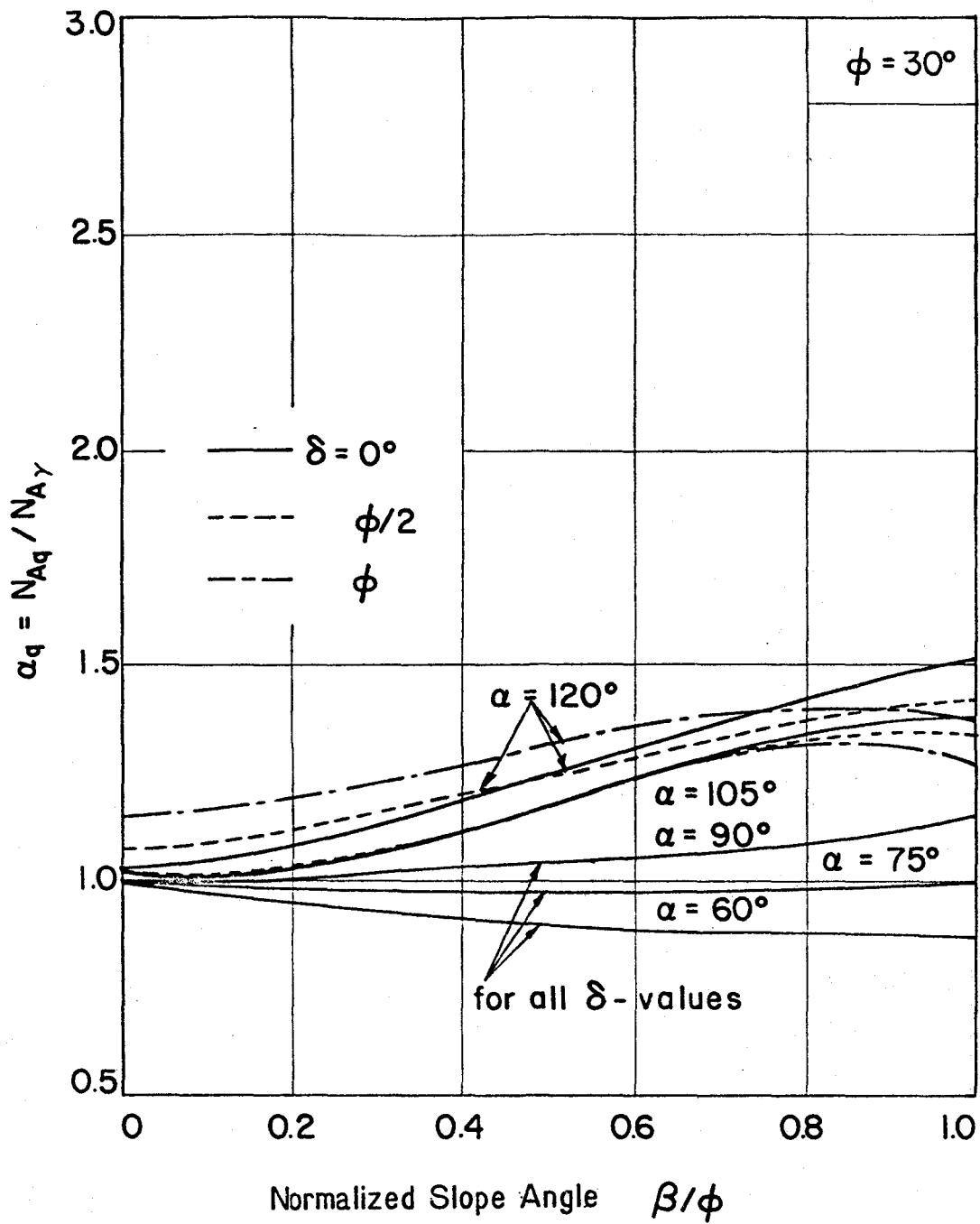


Fig. A-9 Correlation Factor α_q ($\phi = 30^\circ$)

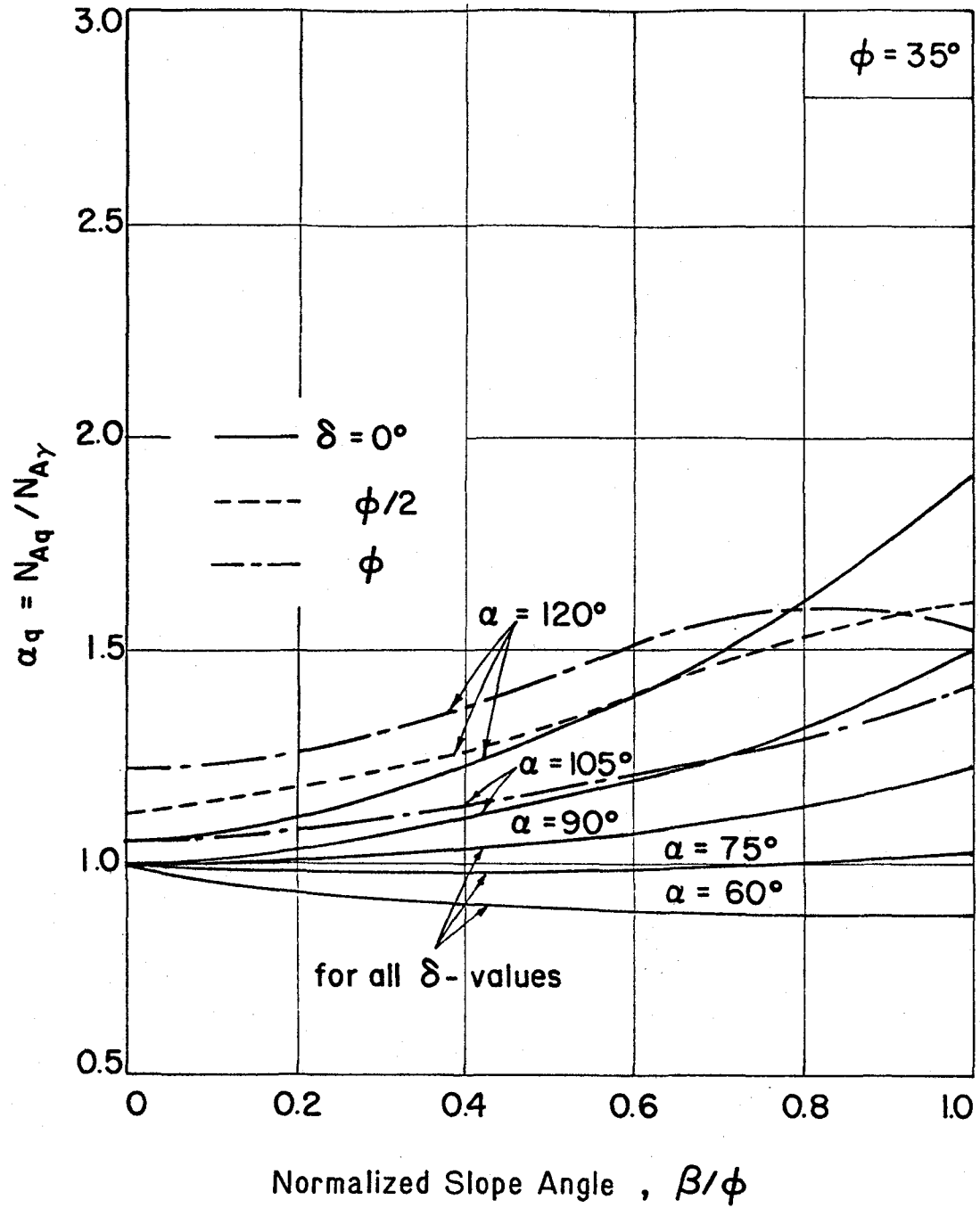


Fig. A-10 Correlation Factor α_q ($\phi = 35^\circ$)

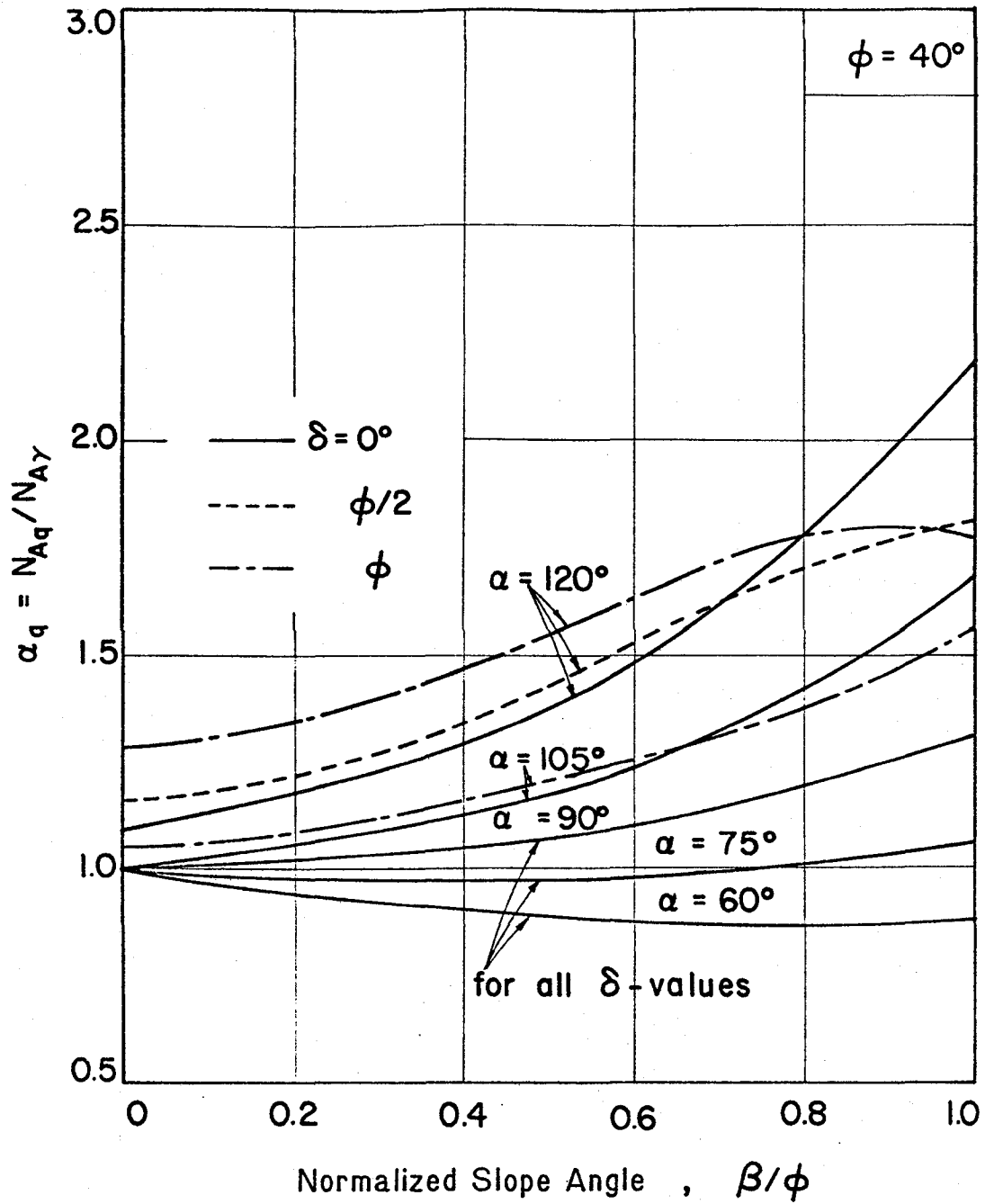


Fig. A-11 Correlation Factor α_q ($\phi = 40^\circ$)

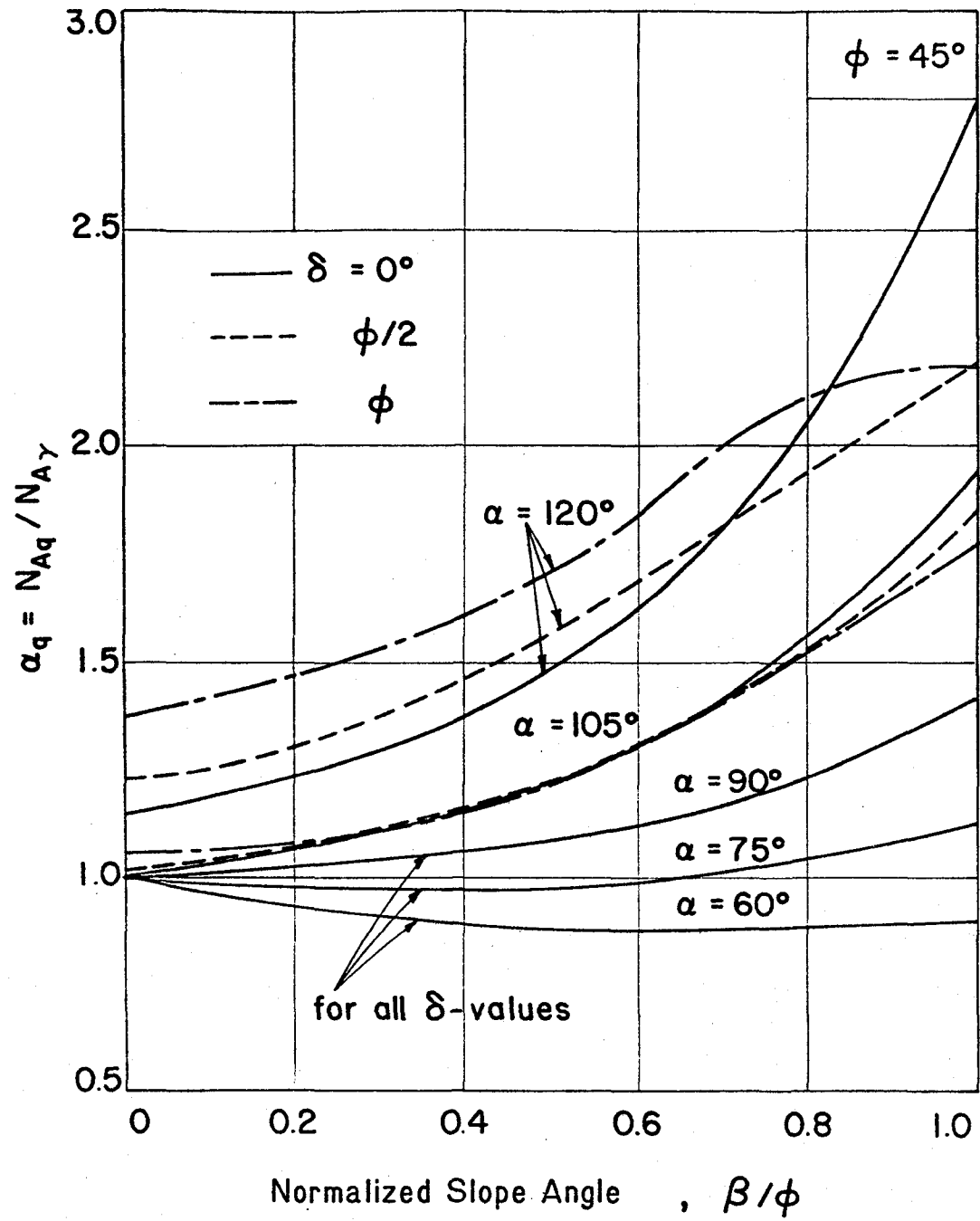


Fig. A-12 Correlation Factor α_q ($\phi = 45^\circ$)

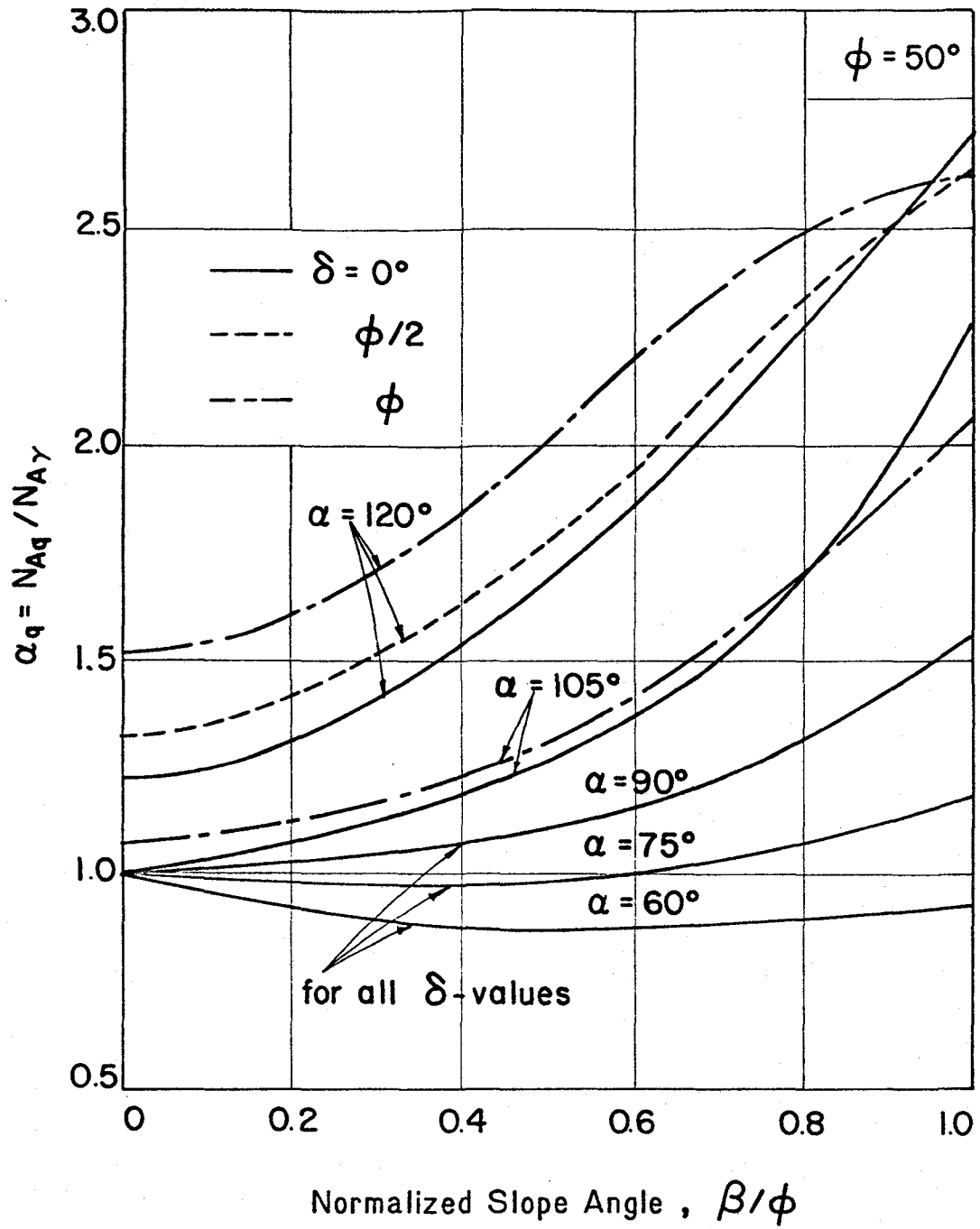


Fig. A-13 Correlation Factor α_q ($\phi = 50^\circ$)

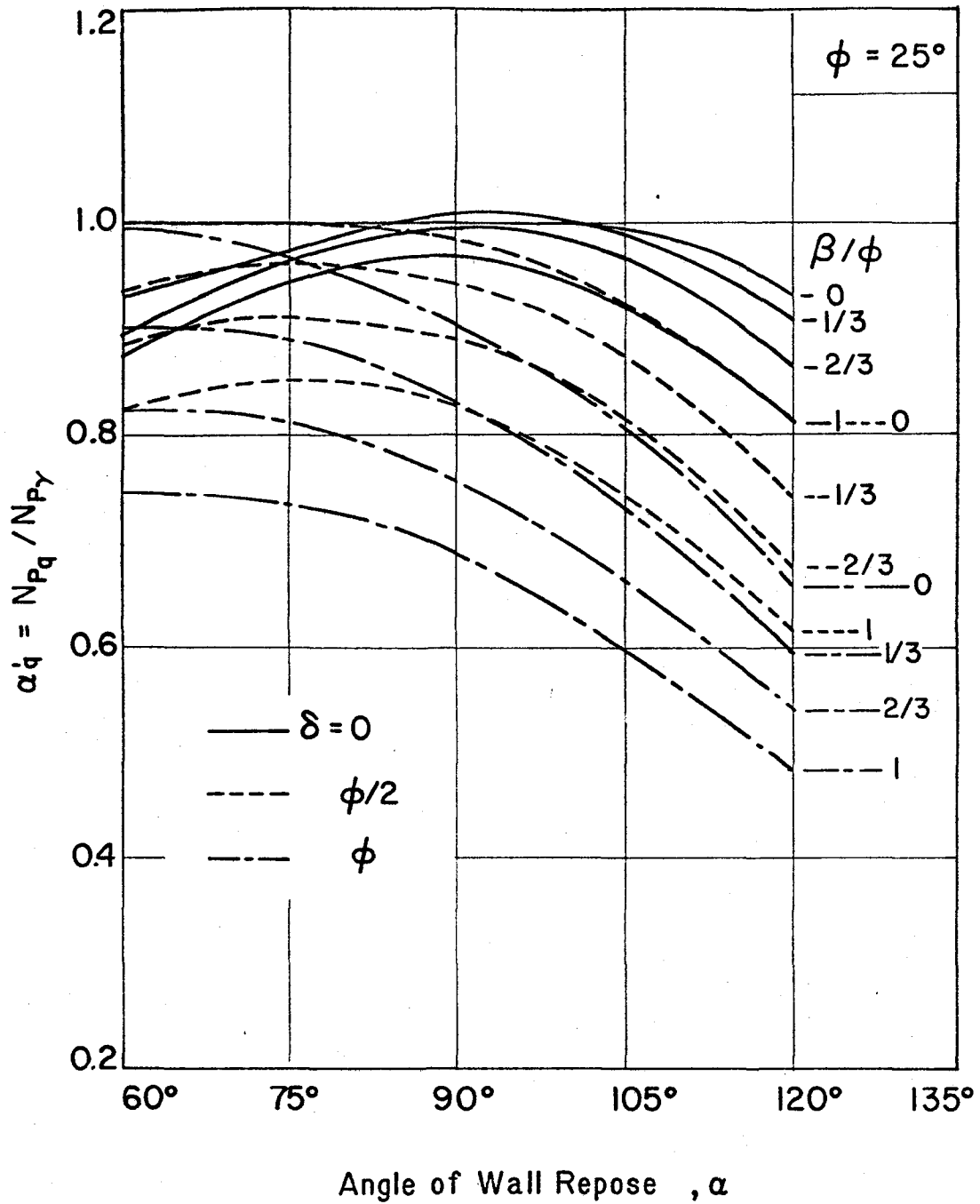


Fig. A-14 Correlation Factor α'_q ($\phi = 25^\circ$)

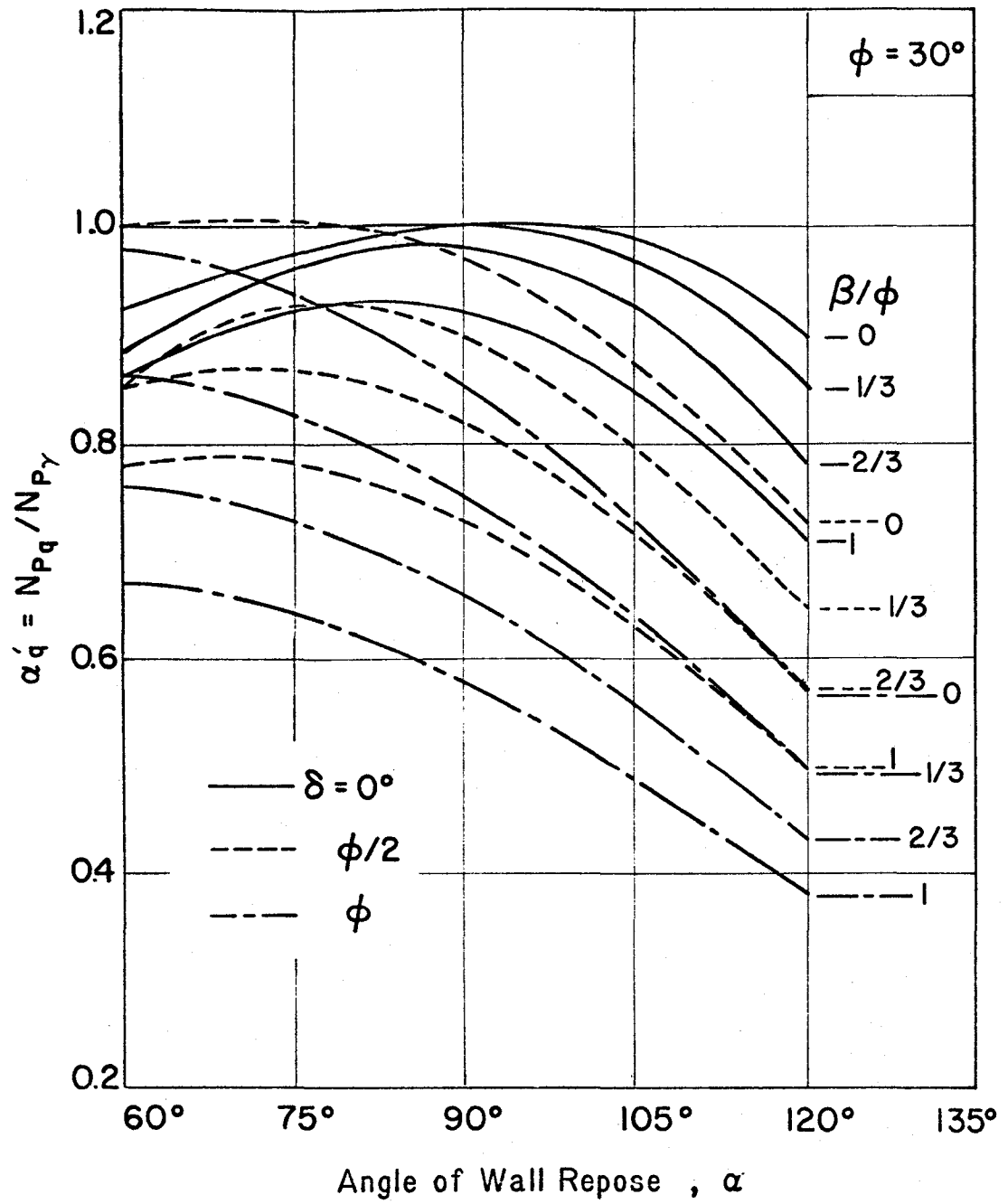


Fig. A-15 Correlation Factor α'_q ($\phi = 30^\circ$)

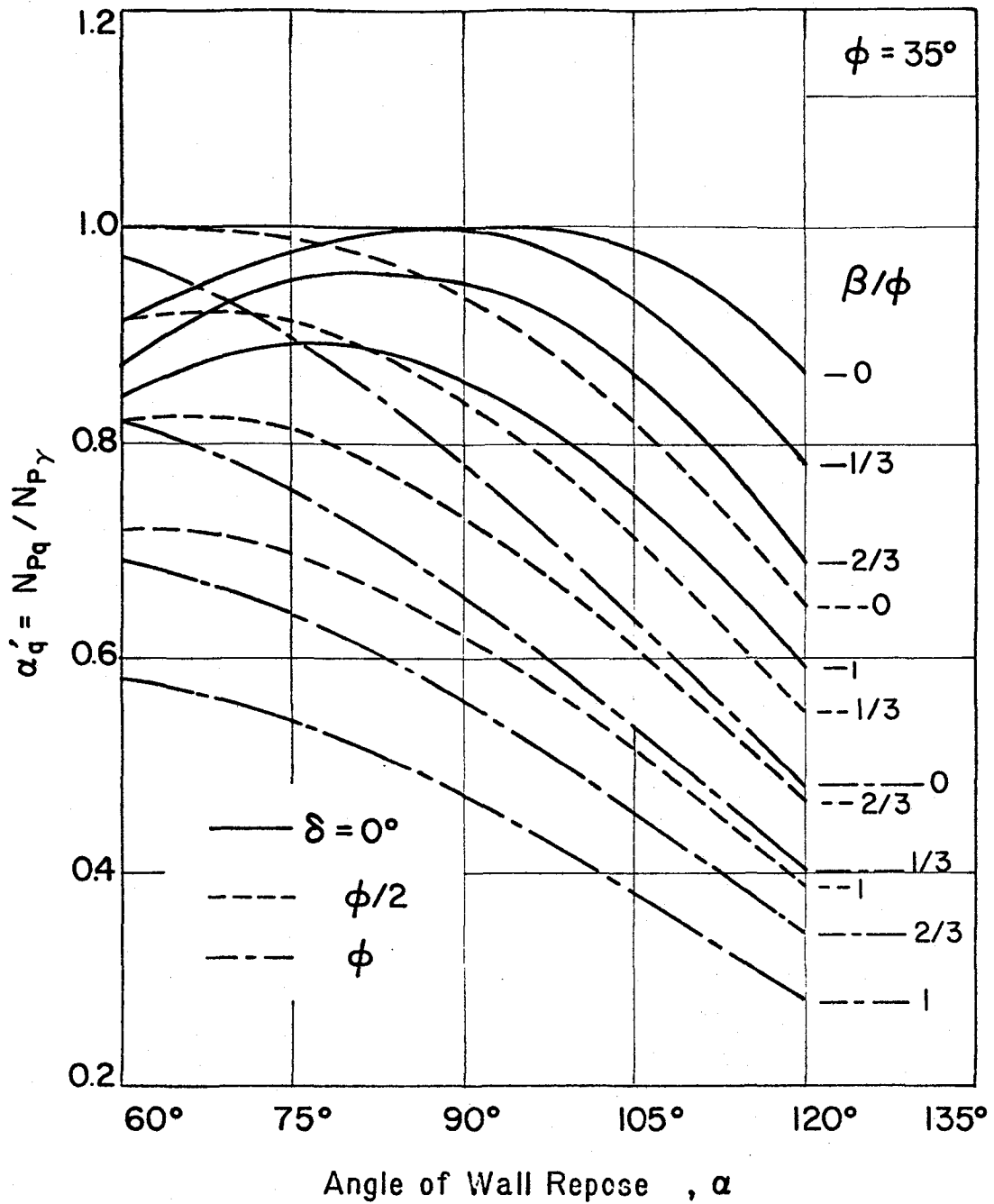


Fig. A-16 Correlation Factor α'_q ($\phi = 35^\circ$)

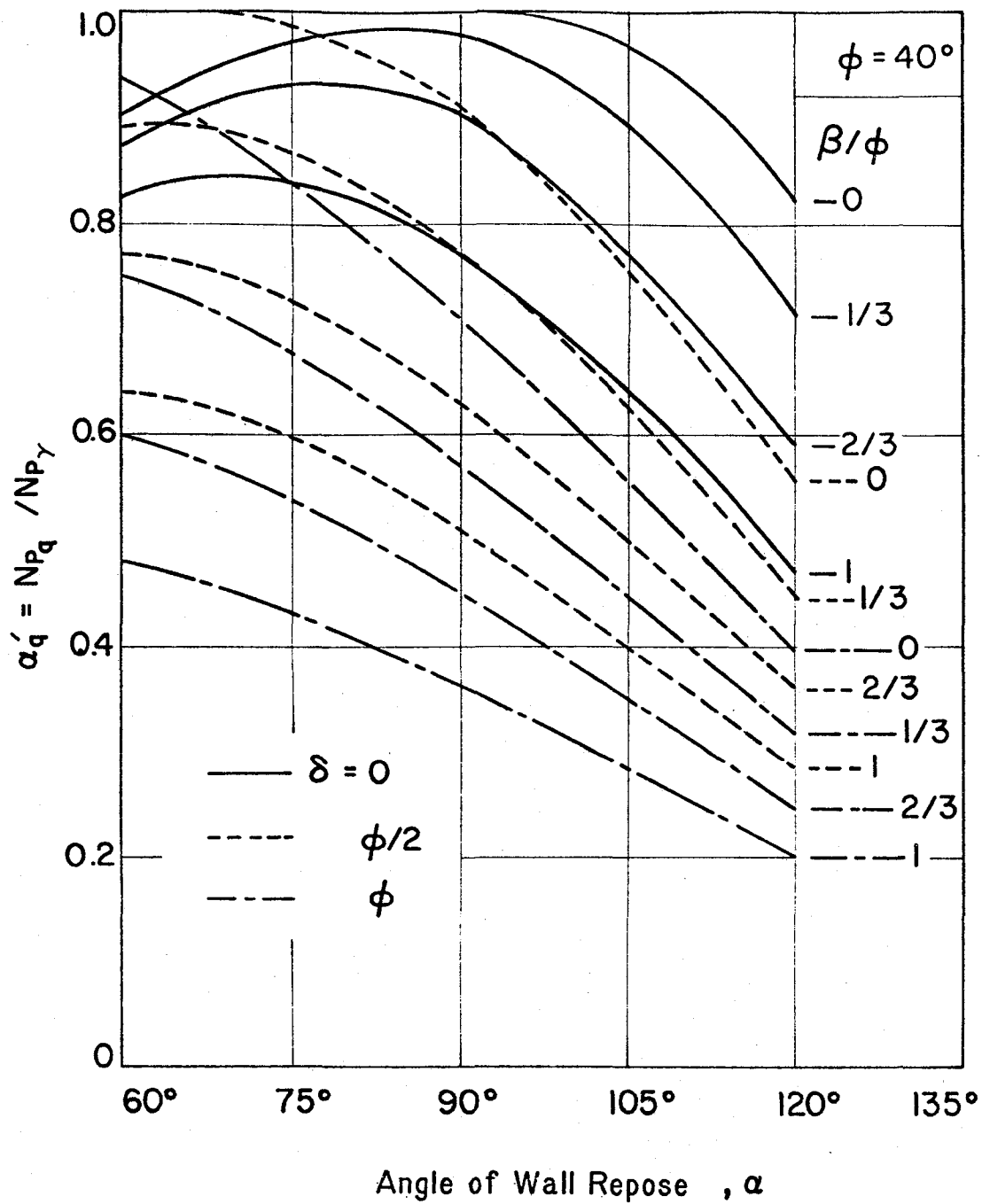


Fig. A-17 Correlation Factor α'_q ($\phi = 40^\circ$)

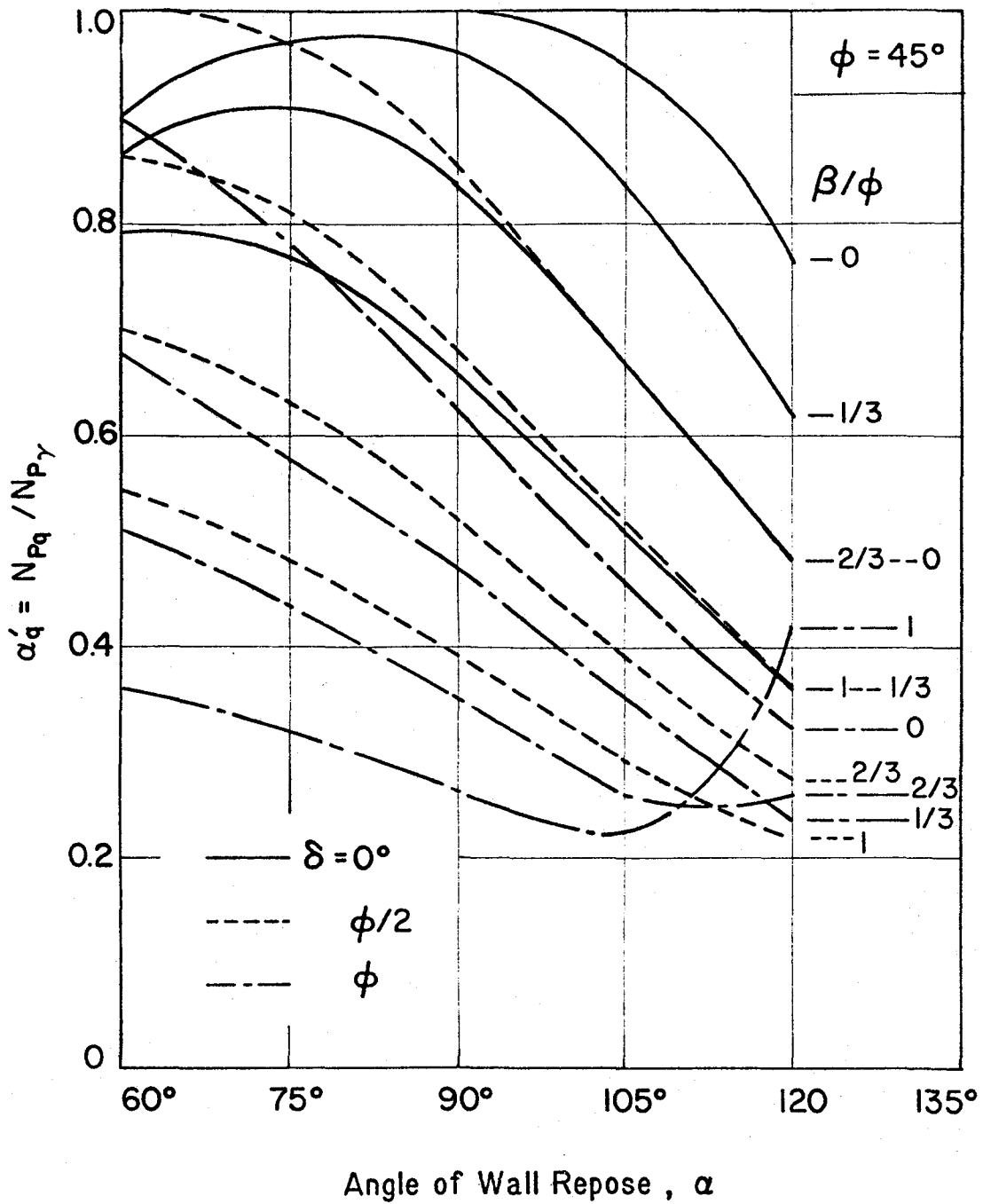


Fig. A-18 Correlation Factor α'_q ($\phi = 45^\circ$)

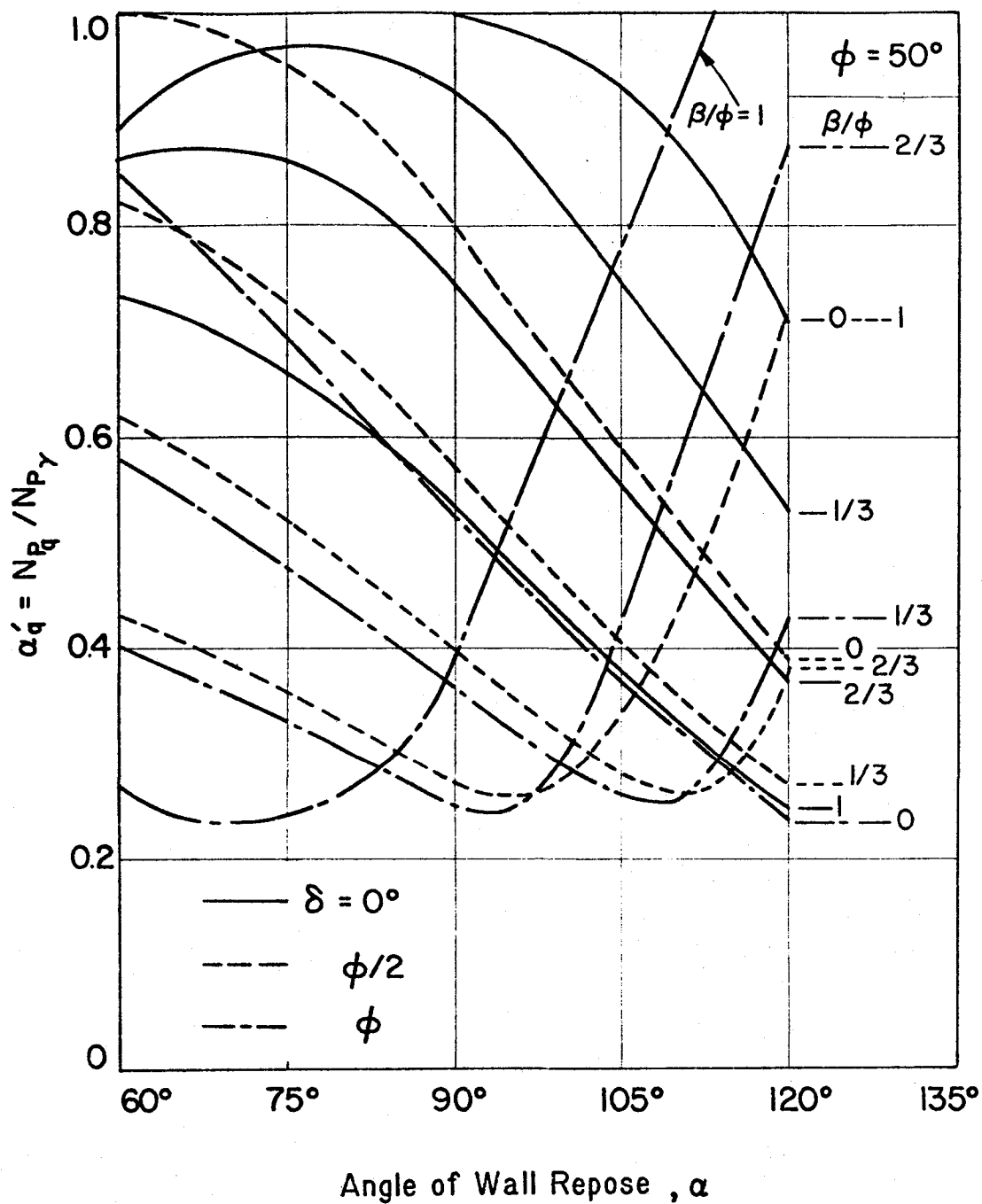


Fig. A-19 Correlation Factor α'_q ($\phi = 50^\circ$)

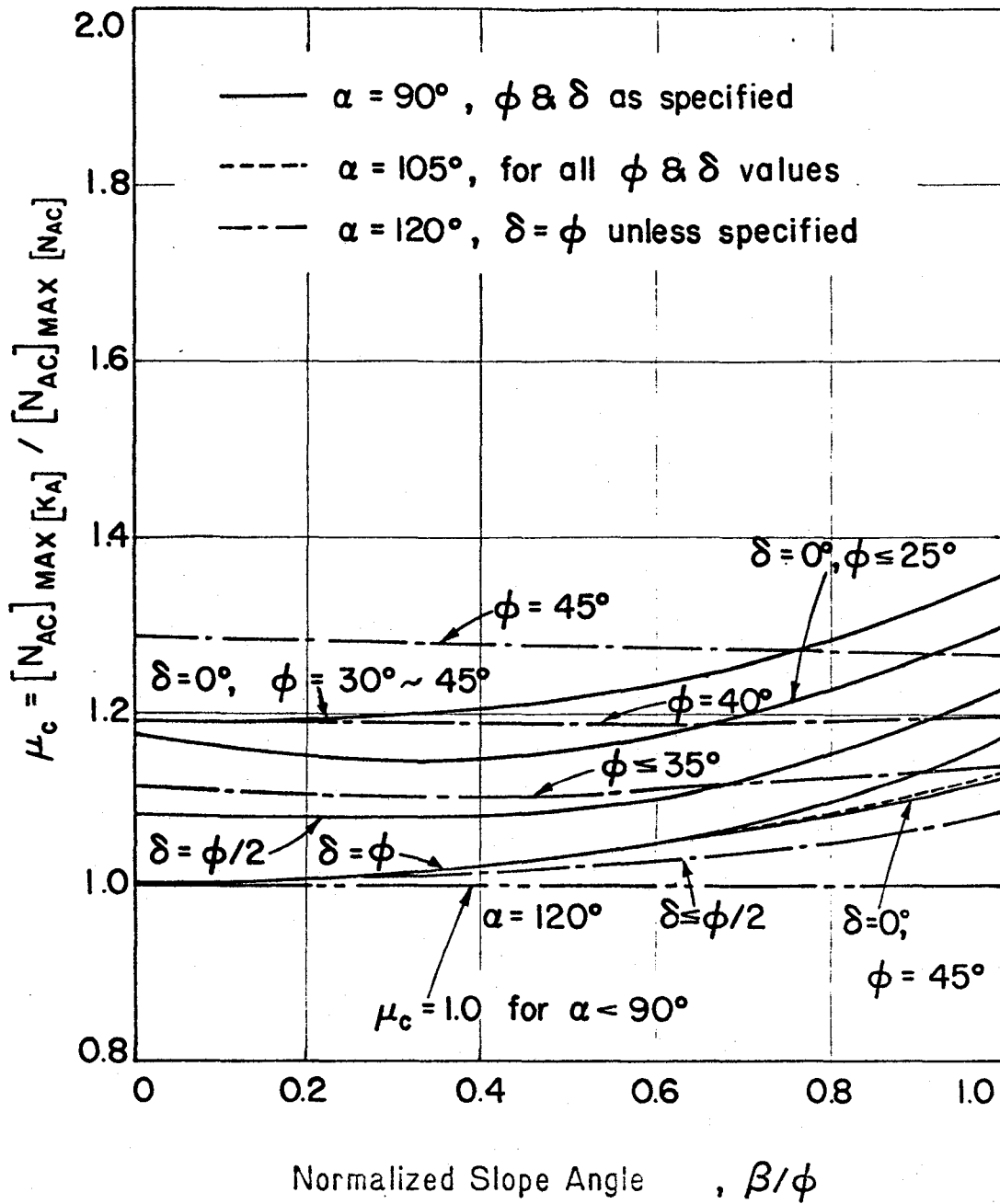


Fig. A-20 Recommended Modification Factor μ_c for $\alpha \geq 90^\circ$

TABLE A - 1 ACTIVE EARTH PRESSURE FACTOR $N_{Ac} (\phi = 20^\circ)$

 * PHI = 20.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NAC-VALUES ---						
0	60.00	-1.84	-1.92	-2.00	-2.07	-2.15	-2.21	-2.28
	75.00	-1.65	-1.71	-1.77	-1.83	-1.88	-1.93	-1.98
	90.00	-1.59	-1.64	-1.68	-1.73	-1.77	-1.81	-1.85
	105.00	-1.59	-1.63	-1.67	-1.72	-1.81	-1.78	-1.81
	120.00	-1.71	-1.81	-1.89	-1.97	-2.08	-1.81	-1.84
.3333	60.00	-1.85	-1.93	-2.01	-2.09	-2.16	-2.23	-2.30
	75.00	-1.66	-1.73	-1.78	-1.84	-1.89	-1.94	-1.99
	90.00	-1.60	-1.65	-1.69	-1.74	-1.78	-1.82	-1.86
	105.00	-1.60	-1.64	-1.68	-1.73	-1.80	-1.79	-1.83
	120.00	-1.70	-1.78	-1.85	-1.92	-2.01	-1.82	-1.85
.5000	60.00	-1.87	-1.95	-2.03	-2.11	-2.18	-2.25	-2.31
	75.00	-1.68	-1.74	-1.80	-1.85	-1.91	-1.96	-2.01
	90.00	-1.61	-1.66	-1.71	-1.75	-1.80	-1.84	-1.88
	105.00	-1.62	-1.66	-1.70	-1.74	-1.81	-1.81	-1.84
	120.00	-1.71	-1.78	-1.84	-1.91	-1.98	-1.83	-1.87
.6667	60.00	-1.89	-1.97	-2.05	-2.13	-2.20	-2.27	-2.34
	75.00	-1.70	-1.76	-1.82	-1.88	-1.93	-1.98	-2.03
	90.00	-1.63	-1.68	-1.73	-1.77	-1.82	-1.86	-1.90
	105.00	-1.64	-1.68	-1.72	-1.76	-1.82	-1.83	-1.86
	120.00	-1.72	-1.78	-1.84	-1.90	-1.97	-1.86	-1.89
1.0000	60.00	-1.92	-1.99	-2.06	-2.13	-2.20	-2.27	-2.34
	75.00	-1.72	-1.79	-1.85	-1.91	-1.96	-2.02	-2.07
	90.00	-1.68	-1.73	-1.78	-1.83	-1.87	-1.92	-1.96
	105.00	-1.69	-1.74	-1.78	-1.82	-1.86	-1.90	-1.93
	120.00	-1.75	-1.81	-1.85	-1.90	-1.95	-1.92	-1.96

TABLE A - 2 ACTIVE EARTH PRESSURE FACTOR $N_{Ac} (\phi = 25^\circ)$

* PHI = 25.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NAC-VALUES ---						
0	60.00	-1.70	-1.80	-1.88	-1.96	-2.03	-2.10	-2.17
	75.00	-1.51	-1.57	-1.63	-1.68	-1.74	-1.78	-1.83
	90.00	-1.42	-1.46	-1.51	-1.55	-1.59	-1.62	-1.66
	105.00	-1.38	-1.42	-1.45	-1.49	-1.52	-1.55	-1.57
	120.00	-1.36	-1.39	-1.42	-1.45	-1.48	-1.50	-1.53
.3333	60.00	-1.73	-1.82	-1.90	-1.98	-2.06	-2.12	-2.19
	75.00	-1.53	-1.59	-1.65	-1.70	-1.76	-1.80	-1.85
	90.00	-1.43	-1.48	-1.52	-1.57	-1.61	-1.64	-1.68
	105.00	-1.39	-1.43	-1.47	-1.50	-1.53	-1.56	-1.59
	120.00	-1.37	-1.40	-1.44	-1.47	-1.49	-1.52	-1.54
.5000	60.00	-1.75	-1.84	-1.93	-2.01	-2.08	-2.15	-2.22
	75.00	-1.55	-1.61	-1.67	-1.73	-1.78	-1.83	-1.87
	90.00	-1.45	-1.50	-1.54	-1.59	-1.63	-1.66	-1.70
	105.00	-1.41	-1.45	-1.49	-1.52	-1.55	-1.58	-1.61
	120.00	-1.39	-1.42	-1.46	-1.49	-1.51	-1.54	-1.57
.6667	60.00	-1.78	-1.87	-1.95	-2.04	-2.12	-2.19	-2.26
	75.00	-1.57	-1.64	-1.70	-1.76	-1.81	-1.86	-1.91
	90.00	-1.48	-1.53	-1.57	-1.62	-1.66	-1.70	-1.73
	105.00	-1.44	-1.48	-1.52	-1.55	-1.58	-1.62	-1.64
	120.00	-1.42	-1.45	-1.48	-1.51	-1.54	-1.57	-1.59
1.0000	60.00	-1.84	-1.92	-1.99	-2.06	-2.13	-2.19	-2.26
	75.00	-1.61	-1.68	-1.74	-1.80	-1.85	-1.91	-1.95
	90.00	-1.54	-1.59	-1.64	-1.69	-1.73	-1.77	-1.81
	105.00	-1.52	-1.56	-1.60	-1.64	-1.67	-1.71	-1.74
	120.00	-1.50	-1.53	-1.57	-1.60	-1.63	-1.66	-1.69

TABLE A - 3 ACTIVE EARTH PRESSURE FACTOR $N_{Ac}(\phi = 30^\circ)$

 * PHI = 30.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NAC-VALUES ---						
0	60.00	-1.55	-1.67	-1.76	-1.84	-1.91	-1.97	-2.03
	75.00	-1.37	-1.43	-1.49	-1.54	-1.59	-1.63	-1.67
	90.00	-1.26	-1.30	-1.35	-1.38	-1.42	-1.45	-1.47
	105.00	-1.19	-1.23	-1.26	-1.29	-1.31	-1.33	-1.36
	120.00	-1.12	-1.15	-1.18	-1.20	-1.22	-1.24	-1.26
.3333	60.00	-1.60	-1.70	-1.79	-1.87	-1.94	-2.00	-2.06
	75.00	-1.39	-1.46	-1.51	-1.57	-1.62	-1.66	-1.70
	90.00	-1.28	-1.32	-1.37	-1.40	-1.44	-1.47	-1.50
	105.00	-1.21	-1.24	-1.28	-1.31	-1.33	-1.35	-1.38
	120.00	-1.14	-1.17	-1.20	-1.22	-1.24	-1.26	-1.28
.5000	60.00	-1.63	-1.73	-1.82	-1.90	-1.98	-2.04	-2.10
	75.00	-1.42	-1.48	-1.54	-1.60	-1.65	-1.69	-1.73
	90.00	-1.30	-1.35	-1.39	-1.43	-1.47	-1.50	-1.53
	105.00	-1.23	-1.27	-1.30	-1.33	-1.36	-1.38	-1.40
	120.00	-1.16	-1.19	-1.22	-1.24	-1.27	-1.29	-1.30
.6667	60.00	-1.67	-1.77	-1.85	-1.94	-2.02	-2.09	-2.15
	75.00	-1.46	-1.53	-1.59	-1.64	-1.69	-1.74	-1.78
	90.00	-1.34	-1.39	-1.43	-1.47	-1.51	-1.54	-1.57
	105.00	-1.27	-1.30	-1.34	-1.37	-1.40	-1.42	-1.44
	120.00	-1.20	-1.23	-1.25	-1.28	-1.30	-1.32	-1.34
1.0000	60.00	-1.77	-1.84	-1.91	-1.98	-2.04	-2.10	-2.15
	75.00	-1.51	-1.57	-1.63	-1.69	-1.74	-1.79	-1.83
	90.00	-1.42	-1.47	-1.52	-1.56	-1.60	-1.63	-1.66
	105.00	-1.38	-1.42	-1.45	-1.48	-1.51	-1.54	-1.56
	120.00	-1.30	-1.33	-1.36	-1.39	-1.41	-1.43	-1.45

TABLE A - 4 ACTIVE EARTH PRESSURE FACTOR $N_{Ac}(\phi = 35^\circ)$

* PHI = 35.00 *								

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NAC-VALUES ---						
0	60.00	-1.40	-1.54	-1.64	-1.72	-1.78	-1.84	-1.89
	75.00	-1.25	-1.31	-1.36	-1.41	-1.45	-1.48	-1.51
	90.00	-1.12	-1.16	-1.19	-1.23	-1.25	-1.28	-1.30
	105.00	-1.02	-1.05	-1.08	-1.10	-1.12	-1.14	-1.15
	120.00	-.92	-.94	-.96	-.98	-.99	-1.01	-1.02
.3333	60.00	-1.48	-1.59	-1.68	-1.76	-1.82	-1.88	-1.93
	75.00	-1.27	-1.34	-1.39	-1.44	-1.48	-1.51	-1.54
	90.00	-1.14	-1.18	-1.22	-1.25	-1.28	-1.30	-1.32
	105.00	-1.05	-1.08	-1.10	-1.12	-1.14	-1.16	-1.18
	120.00	-.94	-.96	-.98	-1.00	-1.02	-1.03	-1.04
.5000	60.00	-1.53	-1.63	-1.72	-1.80	-1.87	-1.93	-1.98
	75.00	-1.31	-1.37	-1.43	-1.48	-1.52	-1.55	-1.59
	90.00	-1.17	-1.21	-1.25	-1.28	-1.31	-1.34	-1.36
	105.00	-1.07	-1.10	-1.13	-1.15	-1.17	-1.19	-1.21
	120.00	-.96	-.99	-1.01	-1.03	-1.04	-1.06	-1.07
.6667	60.00	-1.59	-1.68	-1.77	-1.85	-1.92	-1.99	-2.04
	75.00	-1.36	-1.42	-1.48	-1.53	-1.58	-1.61	-1.65
	90.00	-1.22	-1.26	-1.30	-1.33	-1.36	-1.39	-1.41
	105.00	-1.12	-1.15	-1.18	-1.20	-1.22	-1.24	-1.25
	120.00	-1.00	-1.03	-1.05	-1.07	-1.08	-1.10	-1.11
1.0000	60.00	-1.72	-1.79	-1.85	-1.91	-1.96	-2.01	-2.05
	75.00	-1.43	-1.49	-1.55	-1.59	-1.64	-1.67	-1.70
	90.00	-1.32	-1.37	-1.41	-1.44	-1.47	-1.50	-1.52
	105.00	-1.25	-1.29	-1.32	-1.34	-1.37	-1.39	-1.41
	120.00	-1.12	-1.15	-1.17	-1.20	-1.21	-1.23	-1.24

TABLE A - 5 ACTIVE EARTH PRESSURE FACTOR $N_{Ac}(\phi = 40^\circ)$

 * PHI = 40.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NAC-VALUES ---						
0	60.00	-1.27	-1.42	-1.55	-1.62	-1.67	-1.72	-1.76
	75.00	-1.14	-1.20	-1.24	-1.28	-1.32	-1.34	-1.36
	90.00	-.99	-1.02	-1.05	-1.08	-1.10	-1.11	-1.13
	105.00	-.87	-.89	-.91	-.93	-.94	-.95	-.96
	120.00	-.72	-.74	-.75	-.76	-.77	-.78	-.79
.3333	60.00	-1.38	-1.50	-1.59	-1.66	-1.72	-1.77	-1.81
	75.00	-1.17	-1.23	-1.28	-1.32	-1.35	-1.38	-1.40
	90.00	-1.01	-1.05	-1.08	-1.11	-1.13	-1.15	-1.16
	105.00	-.89	-.91	-.93	-.95	-.97	-.98	-.99
	120.00	-.74	-.76	-.77	-.79	-.80	-.80	-.81
.5000	60.00	-1.45	-1.56	-1.65	-1.72	-1.78	-1.83	-1.87
	75.00	-1.21	-1.27	-1.32	-1.36	-1.40	-1.43	-1.45
	90.00	-1.05	-1.09	-1.12	-1.15	-1.17	-1.19	-1.20
	105.00	-.92	-.95	-.97	-.99	-1.00	-1.01	-1.02
	120.00	-.77	-.79	-.80	-.81	-.82	-.83	-.84
.6667	60.00	-1.54	-1.63	-1.71	-1.79	-1.85	-1.91	-1.95
	75.00	-1.27	-1.34	-1.39	-1.44	-1.47	-1.50	-1.53
	90.00	-1.10	-1.15	-1.18	-1.21	-1.23	-1.25	-1.26
	105.00	-.97	-1.00	-1.02	-1.04	-1.05	-1.06	-1.07
	120.00	-.81	-.83	-.84	-.86	-.87	-.87	-.88
1.0000	60.00	-1.72	-1.78	-1.83	-1.88	-1.92	-1.95	-1.97
	75.00	-1.39	-1.44	-1.49	-1.53	-1.56	-1.59	-1.60
	90.00	-1.24	-1.28	-1.32	-1.35	-1.37	-1.39	-1.40
	105.00	-1.13	-1.16	-1.19	-1.21	-1.23	-1.24	-1.25
	120.00	-.94	-.96	-.98	-1.00	-1.01	-1.02	-1.03

TABLE A - 6 ACTIVE EARTH PRESSURE FACTOR $N_{Ac}(\phi = 45^\circ)$

* PHI = 45.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NAC-VALUES ---						
0	60.00	-1.12	-1.28	-1.43	-1.51	-1.56	-1.59	-1.62
	75.00	-1.02	-1.09	-1.13	-1.16	-1.19	-1.20	-1.22
	90.00	-.87	-.90	-.92	-.94	-.95	-.96	-.97
	105.00	-.72	-.74	-.76	-.77	-.77	-.78	-.79
	120.00	-.54	-.56	-.57	-.57	-.58	-.58	-.59
.3333	60.00	-1.28	-1.40	-1.50	-1.57	-1.61	-1.65	-1.68
	75.00	-1.07	-1.13	-1.17	-1.20	-1.23	-1.25	-1.26
	90.00	-.90	-.93	-.95	-.97	-.99	-1.00	-1.01
	105.00	-.75	-.77	-.78	-.79	-.80	-.81	-.81
	120.00	-.56	-.58	-.59	-.59	-.60	-.60	-.61
.5000	60.00	-1.38	-1.49	-1.57	-1.64	-1.69	-1.72	-1.75
	75.00	-1.12	-1.18	-1.22	-1.26	-1.28	-1.30	-1.32
	90.00	-.94	-.97	-1.00	-1.02	-1.03	-1.04	-1.05
	105.00	-.78	-.80	-.82	-.83	-.84	-.85	-.85
	120.00	-.59	-.60	-.61	-.62	-.63	-.63	-.63
.6667	60.00	-1.49	-1.58	-1.66	-1.72	-1.78	-1.82	-1.86
	75.00	-1.20	-1.26	-1.30	-1.34	-1.37	-1.39	-1.41
	90.00	-1.00	-1.04	-1.06	-1.08	-1.10	-1.11	-1.12
	105.00	-.83	-.85	-.87	-.88	-.89	-.90	-.91
	120.00	-.63	-.64	-.65	-.66	-.67	-.67	-.68
1.0000	60.00	-1.72	-1.77	-1.81	-1.84	-1.87	-1.88	-1.89
	75.00	-1.36	-1.40	-1.44	-1.47	-1.49	-1.50	-1.51
	90.00	-1.17	-1.21	-1.24	-1.26	-1.28	-1.29	-1.29
	105.00	-1.02	-1.05	-1.07	-1.08	-1.10	-1.10	-1.11
	120.00	-.77	-.79	-.80	-.81	-.82	-.82	-.83

TABLE A - 7 PASSIVE EARTH PRESSUR FACTOR $N_{pc}(\phi = 20^\circ)$

 * PHI = 20.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NPC-VALUES ---						
0	60.00	2.93	3.13	3.34	3.56	3.79	4.03	4.28
	75.00	3.20	3.42	3.65	3.89	4.13	4.39	4.66
	90.00	3.86	4.12	4.38	4.65	4.94	5.24	5.55
	105.00	5.01	5.32	5.64	5.99	6.34	6.71	7.09
	120.00	6.94	7.36	7.80	8.25	8.73	9.22	9.73
.3333	60.00	3.13	3.36	3.60	3.85	4.11	4.38	4.66
	75.00	3.48	3.72	3.98	4.25	4.53	4.82	5.12
	90.00	4.24	4.53	4.82	5.13	5.45	5.79	6.15
	105.00	5.54	5.89	6.26	6.65	7.05	7.48	7.91
	120.00	7.73	8.21	8.71	9.22	9.77	10.33	10.92
.5000	60.00	3.24	3.49	3.73	4.00	4.27	4.55	4.85
	75.00	3.63	3.88	4.15	4.43	4.73	5.03	5.35
	90.00	4.43	4.73	5.04	5.38	5.71	6.07	6.45
	105.00	5.81	6.18	6.58	6.98	7.41	7.86	8.32
	120.00	8.13	8.64	9.17	9.72	10.30	10.89	11.52
.6667	60.00	3.35	3.60	3.86	4.14	4.42	4.72	5.03
	75.00	3.77	4.03	4.32	4.61	4.92	5.24	5.57
	90.00	4.62	4.94	5.27	5.61	5.97	6.35	6.74
	105.00	6.08	6.47	6.89	7.32	7.76	8.24	8.72
	120.00	8.53	9.07	9.62	10.20	10.81	11.44	12.10
1.0000	60.00	3.52	3.78	4.07	4.36	4.66	4.98	5.32
	75.00	4.00	4.30	4.60	4.92	5.25	5.60	5.96
	90.00	4.97	5.31	5.66	6.03	6.42	6.83	7.25
	105.00	6.57	6.99	7.44	7.91	8.39	8.90	9.43
	120.00	9.27	9.84	10.45	11.08	11.73	12.42	13.13

TABLE A - 8 PASSIVE EARTH PRESSURE FACTOR N_{pc} ($\phi = 25^\circ$)

 * PHI = 25.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NPC-VALUES ---						
0	60.00	3.03	3.30	3.59	3.91	4.25	4.62	5.00
	75.00	3.40	3.71	4.06	4.42	4.80	5.22	5.66
	90.00	4.24	4.63	5.04	5.48	5.95	6.45	6.98
	105.00	5.71	6.21	6.76	7.33	7.94	8.60	9.30
	120.00	8.25	8.97	9.73	10.53	11.40	12.34	13.32
.3333	60.00	3.34	3.68	4.03	4.41	4.82	5.25	5.71
	75.00	3.85	4.23	4.63	5.06	5.52	6.01	6.54
	90.00	4.88	5.34	5.83	6.36	6.92	7.52	8.16
	105.00	6.64	7.24	7.90	8.60	9.33	10.12	10.97
	120.00	9.70	10.56	11.48	12.46	13.52	14.65	15.86
.5000	60.00	3.52	3.88	4.27	4.67	5.11	5.58	6.08
	75.00	4.10	4.50	4.93	5.40	5.90	6.43	7.00
	90.00	5.22	5.72	6.25	6.82	7.43	8.09	8.80
	105.00	7.15	7.79	8.50	9.26	10.06	10.92	11.84
	120.00	10.46	11.40	12.41	13.48	14.62	15.85	17.16
.6667	60.00	3.71	4.09	4.50	4.95	5.41	5.91	6.45
	75.00	4.34	4.77	5.24	5.74	6.28	6.85	7.46
	90.00	5.56	6.10	6.68	7.28	7.94	8.65	9.41
	105.00	7.65	8.35	9.11	9.92	10.79	11.73	12.74
	120.00	11.27	12.25	13.33	14.49	15.73	17.05	18.51
1.0000	60.00	4.02	4.44	4.90	5.39	5.91	6.47	7.07
	75.00	4.79	5.28	5.80	6.36	6.96	7.60	8.28
	90.00	6.21	6.81	7.46	8.15	8.89	9.68	10.52
	105.00	8.59	9.39	10.24	11.17	12.14	13.18	14.30
	120.00	12.70	13.85	15.06	16.36	17.75	19.23	20.83

TABLE A - 9 PASSIVE EARTH PRESSUR FACTOR $N_{pc}(\phi = 30^\circ)$

 * PHI = 30.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NPC-VALUES ---						
0	60.00	3.12	3.47	3.86	4.31	4.81	5.36	5.96
	75.00	3.59	4.04	4.53	5.07	5.66	6.31	7.03
	90.00	4.66	5.23	5.86	6.56	7.33	8.17	9.10
	105.00	6.55	7.35	8.22	9.18	10.24	11.40	12.69
	120.00	9.93	11.11	12.41	13.84	15.43	17.19	19.14
.3333	60.00	3.57	4.04	4.56	5.13	5.77	6.47	7.24
	75.00	4.28	4.85	5.48	6.17	6.92	7.76	8.68
	90.00	5.69	6.41	7.22	8.11	9.09	10.19	11.39
	105.00	8.11	9.13	10.26	11.51	12.89	14.42	16.11
	120.00	12.47	14.01	15.71	17.59	19.67	21.97	24.52
.5000	60.00	3.85	4.38	4.96	5.59	6.30	7.07	7.93
	75.00	4.67	5.30	6.00	6.77	7.62	8.56	9.60
	90.00	6.26	7.08	7.98	8.99	10.08	11.30	12.65
	105.00	8.99	10.13	11.39	12.79	14.34	16.05	17.94
	120.00	13.87	15.60	17.50	19.61	21.95	24.53	27.38
.6667	60.00	4.15	4.73	5.37	6.07	6.85	7.71	8.67
	75.00	5.10	5.80	6.56	7.40	8.34	9.38	10.53
	90.00	6.85	7.76	8.77	9.87	11.10	12.46	13.96
	105.00	9.92	11.19	12.59	14.15	15.86	17.76	19.86
	120.00	15.37	17.29	19.41	21.75	24.34	27.21	30.38
1.0000	60.00	4.70	5.37	6.11	6.94	7.85	8.85	9.96
	75.00	5.90	6.71	7.62	8.61	9.72	10.94	12.29
	90.00	8.05	9.12	10.30	11.60	13.05	14.64	16.41
	105.00	11.73	13.23	14.88	16.70	18.72	20.96	23.43
	120.00	18.23	20.48	23.02	25.77	28.82	32.19	35.92

TABLE A - 10 PASSIVE EARTH PRESSUR FACTOR $N_{pc}(\phi = 35^\circ)$

 * PHI = 35.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NPC-VALUES ---						
0	60.00	3.22	3.67	4.20	4.82	5.55	6.38	7.33
	75.00	3.80	4.42	5.13	5.93	6.84	7.90	9.10
	90.00	5.15	5.99	6.95	8.05	9.32	10.76	12.43
	105.00	7.61	8.83	10.26	11.88	13.76	15.90	18.37
	120.00	12.12	14.09	16.36	18.96	21.95	25.43	29.43
.3333	60.00	3.85	4.52	5.28	6.16	7.15	8.30	9.64
	75.00	4.83	5.68	6.65	7.76	9.05	10.52	12.22
	90.00	6.76	7.91	9.26	10.80	12.59	14.63	16.98
	105.00	10.16	11.89	13.90	16.19	18.85	21.93	25.45
	120.00	16.54	19.32	22.52	26.21	30.48	35.43	41.14
.5000	60.00	4.28	5.05	5.92	6.93	8.09	9.43	10.96
	75.00	5.46	6.43	7.56	8.85	10.34	12.07	14.06
	90.00	7.70	9.06	10.61	12.40	14.48	16.87	19.69
	105.00	11.73	13.73	16.05	18.73	21.83	25.38	29.49
	120.00	19.14	22.40	26.17	30.48	35.43	41.15	47.77
.6667	60.00	4.77	5.62	6.62	7.77	9.10	10.63	12.41
	75.00	6.15	7.27	8.55	10.04	11.75	13.71	16.06
	90.00	8.78	10.30	12.09	14.16	16.54	19.29	22.44
	105.00	13.36	15.68	18.37	21.48	25.03	29.12	33.83
	120.00	21.96	25.69	30.00	34.95	40.75	47.32	54.89
1.0000	60.00	5.69	6.75	7.99	9.42	11.07	12.97	15.16
	75.00	7.55	8.94	10.54	12.39	14.53	16.98	19.82
	90.00	10.89	12.83	15.06	17.65	20.61	24.03	27.99
	105.00	16.77	19.69	23.02	26.88	31.29	36.41	42.31
	120.00	27.66	32.31	37.71	43.92	51.02	59.25	68.76

TABLE A - 11 PASSIVE EARTH PRESSURE FACTOR $N_{pc} (\phi = 40^\circ)$

* PHI = 40.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NPC-VALUES ---						
0	60.00	3.37	3.94	4.65	5.53	6.61	7.90	9.46
	75.00	4.08	4.92	5.93	7.15	8.60	10.36	12.47
	90.00	5.77	6.99	8.47	10.25	12.42	15.03	18.20
	105.00	8.97	10.91	13.26	16.08	19.50	23.69	28.80
	120.00	15.20	18.51	22.55	27.46	33.36	40.52	49.31
.3333	60.00	4.25	5.18	6.31	7.66	9.29	11.27	13.68
	75.00	5.59	6.85	8.39	10.26	12.53	15.27	18.57
	90.00	8.23	10.13	12.42	15.17	18.56	22.67	27.64
	105.00	13.19	16.22	19.90	24.33	29.72	36.34	44.36
	120.00	22.92	28.11	34.48	42.21	51.49	62.93	76.87
.5000	60.00	4.88	6.00	7.36	9.00	11.01	13.43	16.34
	75.00	6.57	8.12	9.99	12.24	14.99	18.36	22.45
	90.00	9.82	12.11	14.92	18.33	22.44	27.42	33.58
	105.00	15.94	19.61	24.06	29.57	36.16	44.16	53.98
	120.00	27.88	34.21	41.92	51.37	62.85	76.70	93.66
.6667	60.00	5.63	6.96	8.58	10.53	12.91	15.81	19.34
	75.00	7.70	9.53	11.78	14.51	17.81	21.80	26.75
	90.00	11.66	14.41	17.74	21.87	26.79	32.78	40.09
	105.00	18.99	23.44	28.80	35.32	43.34	52.95	64.67
	120.00	33.33	41.06	50.33	61.60	75.49	92.14	112.39
1.0000	60.00	7.16	8.93	11.09	13.71	16.90	20.77	25.48
	75.00	10.14	12.61	15.61	19.25	23.69	29.08	35.63
	90.00	15.61	19.29	23.79	29.25	35.90	43.99	53.80
	105.00	25.65	31.57	38.80	47.57	58.25	71.25	87.00
	120.00	45.18	55.43	67.93	83.11	101.60	124.09	151.36

TABLE A -12 PASSIVE EARTH PRESSUR FACTOR $N_{pc}(\phi = 45^\circ)$

 * PHI = 45.00 *

BETA/PHI	=	0	1/6	1/3	1/2	2/3	5/6	1
DELTA/PHI	ALPHA	--- NPC-VALUES ---						
0	60.00	3.52	4.25	5.19	6.46	8.09	10.17	12.84
	75.00	4.39	5.52	6.99	8.85	11.24	14.35	18.36
	90.00	6.52	8.32	10.63	13.64	17.51	22.48	29.02
	105.00	10.78	13.89	17.89	23.04	29.81	38.49	49.79
	120.00	19.66	25.40	32.95	42.63	55.24	71.72	92.86
.3333	60.00	4.72	6.05	7.74	9.93	12.79	16.41	21.13
	75.00	6.57	8.53	11.09	14.33	18.56	24.10	31.18
	90.00	10.41	13.53	17.60	22.96	29.79	38.81	50.36
	105.00	17.88	23.43	30.50	39.82	51.80	67.47	87.75
	120.00	33.58	43.96	57.33	74.80	97.43	126.85	165.13
.5000	60.00	5.68	7.36	9.55	12.35	15.98	20.74	26.82
	75.00	8.17	10.66	13.91	18.18	23.62	30.76	40.01
	90.00	13.07	17.21	22.45	29.34	38.29	49.87	65.01
	105.00	22.87	29.99	39.26	51.24	66.93	87.12	113.64
	120.00	43.32	56.66	74.18	96.67	126.27	164.22	214.21
.6667	60.00	6.84	8.95	11.74	15.26	19.84	25.89	33.58
	75.00	10.04	13.25	17.34	22.70	29.66	38.68	50.47
	90.00	16.38	21.54	28.28	36.98	48.38	63.04	82.30
	105.00	28.89	37.88	49.70	64.86	84.82	110.40	144.10
	120.00	54.93	71.82	94.10	122.62	160.23	208.37	271.85
1.0000	60.00	9.50	12.57	16.60	21.79	28.59	37.37	48.84
	75.00	14.49	19.16	25.24	33.13	43.39	56.70	74.03
	90.00	24.06	31.67	41.59	54.45	71.18	92.89	121.14
	105.00	42.71	56.08	73.35	95.83	125.08	163.01	212.39
	120.00	81.37	106.55	139.07	181.38	236.45	307.88	400.84

APPENDIX C: COMPUTER PROGRAM FOR CALCULATING DISTRIBUTION OF
LATERAL EARTH PRESSURE BY MODIFIED DUBROVA METHOD

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C
C   PROGRAM MDMEP(INPUT,OUTPUT,TAPE5=INPUT,TAPE6=OUTPUT)
C
C   A PROGRAM FOR DETERMINING THE DISTRIBUTIONS OF STATIC AND SEISMIC
C   LATERAL EARTH PRESSURES BY MODIFIED DUBROVA METHOD; M. F. CHANG,
C   APRIL 1981
C
C   NPD=PRESSURE DISTRIBUTION TO BE PRINTED : NPD=1 → YES;
C   NPD=0 → NO
C   MRT=ROTATION ABOUT THE TOP : MRT=1 → YES; MRT=0 → NO
C   MTR=TRANSLATIONAL MOVEMENT : MTR=1 → YES; MTR=0 → NO
C   MP=PASSIVE CASE : MP=1 → YES; MP=0 → NO
C   MWM=MODE OF WALL MOVEMENT: MWM=1 → ACTIVE, ROTATION ABOUT
C   BOTTOM; MWM=2 → PASSIVE, ROTATION ABOVE BOTTOM; MWM=3 →
C   ACTIVE, ROTATION ABOUT TOP; MWM=4 → PASSIVE, ROTATION
C   ABOUT TOP; MWM=5 → ACTIVE TRANSLATION; MWM=6 → PASSIVE
C   TRANSLATION
C
C   TILT=INCLINATION OF THE BACK OF WALL
C   BETA=SLOPE ANGLE OF THE BACKFILL
C   XH=HEIGHT OF THE WALL
C   XZ=DEPTH BELOW THE TOP OF THE WALL
C   DZ=SEGMENT HEIGHT USED IN THE ANALYSIS
C
C   PHI=ANGLE OF INTERNAL FRICTION OF THE BACKFILL MATERIAL
C   DELTA=ANGLE OF SOIL-WALL INTERFACE FRICTION
C   XM=MAXIMUM ANGLE OF WALL FRICTION DIVIDED BY PHI-PARAMETER
C   PSI=MOBILIZED STRENGTH PARAMETER OF THE BACKFILL MATERIAL
C   PSIA=MOBILIZED STRENGTH PARAMETER AT THE ROTATION POINT
C   PSIB=MOBILIZED STRENGTH PARAMETER AT THE MOVING END
C   PSIU=PSI-VALUE AT THE TOP
C   PSIL=PSI-VALUE AT THE TOE
C
C   XKU=INPUT VERTICAL SEISMIC COEFFICIENT: XKU>0 IF
C   POINTING UPWARD, XKU<0 IF POINTING DOWNWARD
C   XKH1=INPUT HORIZONTAL SEISMIC COEFFICIENT: XKH1>0 FOR
C   BOTH ACTIVE AND PASSIVE CASES
C   XKH=ACTUAL HORIZONTAL SEISMIC COEFFICIENT ; XKH>0 FOR ACTIVE
C   CASE; XKH<0 FOR PASSIVE CASE
C   THETK=DIRECTION OF SEISMIC ACCELERATION WITH REFERENCE TO
C   THE HORIZONTAL: THETK>0 FOR ACTIVE CASE; THETK<0 FOR
C   PASSIVE CASE
C
C   PZ=LATERAL EARTH PRESSURE AT DEPTH Z
C   P=RESULTANT EARTH PRESSURE NORMALIZED BY UNIT WEIGHT OF THE
C   BACKFILL MATERIAL
C   Y=POINT OF ACTION OF P ABOVE THE BOTTOM OF WALL
C
C MAIN PROGRAM
C
C   DIMENSION XTILT(50),XBETA(50),XXH(50),XXKH(50),XXKU(50),MWM(50)
C   DIMENSION XPHI(50),XXM(50),XPSIU(50),XPSIL(50),P(50),Q(50),YM(50)
C   1,NSOLUT(50),XNG(50),XNYM(50)
C   DIMENSION XXZ(200),XPSI(200),XDELTA(200),PZ(200),SP(200),YB(200),
C   1SQ(200)
C   Z=0.0174533
C   READ(5,200) MM,NN
C
C   DO 150 M=1,MM
C   READ(5,250) TILT,BETA,XH,PHI,XM,XKH1,XKU

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C
DO 85 N=1,NN
READ(5,225) DZ,NPD,MRT,MP,MTR
XTILT(N)=TILT
XBETA(N)=BETA
XXH(N)=XH
XPHI(N)=PHI
XXM(N)=XM
XKH=XKH1
THETK=ATAN(XKH/(1.0+XKU))/Z
PHIO=ASIN((SIN(PHI*Z))/(2.0-SIN(PHI*Z)))/Z
IF(MTR) 1,1, 20
1 PSIA=PHIO+(PHI-PHIO)*TAN(BETA*Z)/TAN(PHI*Z)
PSIB=PHI
IF(MRT) 15,10,15
10 IF(MP) 12,11,12
11 PSIU=PSIB
PSIL=PSIA
XKH=XKH1
NMWM=1
GO TO 30
12 PSIU=-PSIB
PSIL=-PSIA
XKH=-XKH1
THETK=-THETK
NMWM=2
GO TO 30
15 IF(MP) 17,16,17
16 PSIU=PSIA
PSIL=PSIB
XKH=XKH1
NMWM=3
GO TO 30
17 PSIU=-PSIA
PSIL=-PSIB
XKH=-XKH1
THETK=-THETK
NMWM=4
GO TO 30
20 PSIA=PHI
PSIB=PHI
IF(MP) 22,21,22
21 PSIU=PSIB
PSIL=PSIB
XKH=XKH1
NMWM=5
GO TO 30
22 PSIU=-PSIB
PSIL=-PSIB
XKH=-XKH1
THETK=-THETK
NMWM=6
30 IF(MP) 32,31,32
31 IF(PSIA-BETA-THETK) 81,40,40
32 IF(PSIA+BETA-THETK) 81,40,40
40 XPSIU(N)=PSIU
XPSIL(N)=PSIL
XXKH(N)=XKH
XXKU(N)=XKU
MWM(N)=NMWM
XZ=0.0
LL=XH/DZ+1.05
C
DO 50 L=1,LL

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PSI=PSIU+(PSIL-PSIU)*XZ/XH
DELTA=PSI*XM
DPZ=(PSIL-PSIU)/XH*Z
XXZ(L)=XZ
XPSI(L)=PSI
XDELTA(L)=DELTA
CALL XPZ(PSI, DELTA, XM, TILT, BETA, XKU, THETK, XZ, DPZ, PZX)
PZ(L)=PZX
XZ=XZ+DZ
50 CONTINUE
C
IF(NPD) 70,70,55
55 IF(N-1) 60,57,60
57 WRITE(6,275)
60 WRITE(6,300) N
C
DO 65 L=1,LL
WRITE(6,325) XXZ(L),XPSI(L),XDELTA(L),PZ(L)
65 CONTINUE
C
70 P(N)=0.0
Q(N)=0.0
II=LL-1
C
DO 80 I=1,II
SP(I)=(PZ(I)+PZ(I+1))/2.0*DZ
YB(I)=(2.0*PZ(I)+PZ(I+1))/(3.0*(PZ(I)+PZ(I+1)))*DZ+(II-I)*DZ
SQ(I)=SP(I)*YB(I)
P(N)=P(N)+SP(I)
Q(N)=Q(N)+SQ(I)
80 CONTINUE
C
YM(N)=Q(N)/P(N)
XNG(N)=P(N)/(0.5*XH**2.0)
XNYM(N)=YM(N)/XH
GO TO 85
81 NSOLUT(N)=1
85 CONTINUE
C
DO 100, J=1, NN
IF(J-1) 95,90,95
90 WRITE(6,340)
95 WRITE(6,350) J, XTILT(J), XBETA(J), XXH(J), XKH(J), XKU(J), MWM(J)
100 CONTINUE
C
DO 120 J=1, NN
IF(J-1) 110,105,110
105 WRITE(6,400)
110 IF(NSOLUT(J)-1) 112,111,112
111 WRITE(6,420) J, XPHI(J), XXM(J), XPSIU(J), XPSIL(J)
GO TO 120
112 WRITE(6,425) J, XPHI(J), XXM(J), XPSIU(J), XPSIL(J), P(J), YM(J),
1XNG(J), XNYM(J)
120 CONTINUE
150 CONTINUE
C
200 FORMAT(2I4)
225 FORMAT(F7.4,4I4)
250 FORMAT(7F10.2)
275 FORMAT(1H1, #VARIATION OF EARTH PRESSURE WITH DEPTH#/)
300 FORMAT(1H0, #PRESSURE DISTRIBUTIONS FOR SOIL-WALL NO. #I4/1H0,
15X, #XZ#, 4X, #PSI#, 4X, #DELTA#, 8X, #PZ#)
325 FORMAT(1X,3F8.4,F12.4)
340 FORMAT(1X, //, #SUMMARY OF RESULTS#/1H0, #CASE#, 3X, #TILT#, 3X,
1#BETA#, 5X, #XH#, 4X, #XKH#, 4X, #XKU#, 6X, #MWM#/)

```

```

350 FORMAT(/,1X,I4,5F7.2,I8)
400 FORMAT(2/,1X,=CASE#,3X,=PHI#,5X,=XM#,3X,=PSIU#,3X,=PSIL#,8X,
1=P#,8X,=Y#,6X,=KA:KP#,6X,=Y/H#/)
420 FORMAT(/,1X,I4,F7.2,F7.4,2F7.2,3X,=THE SYSTEM IS UNSTABLE#)
425 FORMAT(/,1X,I4,F7.2,F7.4,2F7.2,F10.2,3F9.4)
STOP
END

```

C
C
C
C

SUBPROGRAM FOR PRESSURE DISTRIBUTION CALCULATION

```

SUBROUTINE XPZ(PHI, DELTA, XM, TILT, BETA, XKU, THETK, XZ, DPZ, PZX)
Z=0.0174533
ZETA=SQRT(SIN((PHI+DELTA)*Z)*SIN((PHI-BETA-THETK)*Z)
1/COS((TILT-BETA)*Z)/COS((DELTA+TILT+THETK)*Z))
IF(PHI) 25,30,30
25 ZETA=-ZETA
30 X1=(1.0+XM)*ZETA*COS((PHI+DELTA)*Z)/SIN((PHI+DELTA)*Z)
X2=ZETA*COS((PHI-BETA-THETK)*Z)/SIN((PHI-BETA-THETK)*Z)
X3=-XM*TAN((DELTA+TILT+THETK)*Z)
XD=SIN((PHI-TILT-THETK)*Z)+COS((PHI-TILT-THETK)*Z)/2.0/
1(1.0+ZETA)*(X1+X2+X3)
XB=COS((PHI-TILT-THETK)*Z)
XA=XZ*COS((PHI-TILT-THETK)*Z)*(1.0+XKU)/COS(THETK*Z)/
1(COS(TILT*Z))**2/COS((DELTA+TILT+THETK)*Z)/(1.0+ZETA)**2
PZX=XA*(XB-XZ*DPZ*XD)
RETURN
END

```

"Sample Output"

SUMMARY OF INPUT DATA AND RESULTS

CASE	TILT	BETA	XH	XKH	XKU	MWM
1	15.00	10.00	20.00	.15	0	1
2	15.00	10.00	20.00	.15	0	3
3	15.00	10.00	20.00	.15	0	5
4	15.00	10.00	20.00	-.15	0	2
5	15.00	10.00	20.00	-.15	0	4
6	15.00	10.00	20.00	-.15	0	6

CASE	PHI	XM	PSIU	PSIL	P	Y	KA:KP	Y/H
1	40.00	.7500	40.00	30.73	138.13	6.2532	.6907	.3127
2	40.00	.7500	30.73	40.00	108.00	7.0730	.5400	.3536
3	40.00	.7500	40.00	40.00	108.00	6.6657	.5400	.3333
4	40.00	.7500	-40.00	-30.73	1326.03	8.4560	6.6302	.4228
5	40.00	.7500	-30.73	-40.00	3679.77	5.0763	18.3988	.2538
6	40.00	.7500	-40.00	-40.00	3679.49	6.6667	18.3974	.3333