




Supplement — Control Monitoring Schemes for Percentiles of Generalized Exponential Distribution with Hybrid Censoring

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Table 1: Control limits, ARL_0 and $SDRL_0$ for $\theta = 5.5, \lambda = 0.05$

$m = 25, x_0 = 55, r = 15$						
ν	θ	λ	LCL	UCL	ARL_0	$SDRL_0$
$p = 0.1$						
0.1	2.812	0.030	11.830	23.037	8.865	9.269
0.005	2.876	0.314	8.968	27.711	199.281	202.163
0.0027	2.866	0.031	8.518	28.718	373.620	382.851
0.002	2.848	0.031	8.269	29.288	510.406	511.501
0.001	2.881	0.031	7.893	30.523	1012.984	1019.954
$p = 0.5$						
0.1	2.909	0.032	42.012	86.471	9.654	9.153
0.005	2.915	0.031	34.638	128.473	200.125	197.813
0.0027	2.869	0.031	33.919	144.963	371.171	373.865
0.002	2.932	0.032	33.336	147.457	516.495	518.838
0.001	2.895	0.0313	32.330	163.980	946.275	942.008
$p = 0.9$						
0.1	2.858	0.031	95.772	248.542	9.240	8.821
0.005	2.853	0.031	76.570	381.303	199.350	195.763
0.0027	2.837	0.031	74.073	421.948	366.788	369.880
0.002	2.882	0.032	73.003	439.777	548.506	539.569
0.001	2.877	0.031	70.660	491.325	935.637	917.314
$m = 25, x_0 = 55, r = 20$						
$p = 0.1$						
0.1	3.705	0.038	13.612	24.275	9.593	8.978
0.005	3.743	0.0387	10.616	28.571	197.046	202.377
0.0027	3.955	0.040	10.543	29.553	371.029	378.865
0.002	3.857	0.397	10.096	29.733	499.323	497.201
0.001	3.870	0.039	9.715	30.573	963.830	962.839
$p = 0.5$						
0.1	3.758	0.039	38.684	75.995	9.586	8.993
0.005	3.843	0.039	32.782	107.914	199.891	199.839
0.0027	3.834	0.034	31.638	112.757	372.903	371.694
0.002	3.671	0.038	31.317	120.484	498.172	501.858
0.001	3.917	0.039	30.986	130.329	1012.002	1025.377

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 Corresponding author

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ν	θ	λ	LCL	UCL	ARL_0	$SDRL_0$
$p = 0.9$						
0.1	3.835	0.039	73.389	187.241	8.782	9.306
0.005	4.068	0.041	59.618	291.500	187.599	189.073
0.0027	3.922	0.040	58.869	329.939	344.867	344.185
0.002	3.887	0.039	58.189	486.579	485.553	485.330
0.001	3.833	0.039	56.391	376.658	1067.507	1052.423
$m = 40, x_0 = 55, r = 30$						
$p = 0.1$						
0.1	3.830	0.039	14.549	22.933	9.072	9.741
0.005	3.837	0.039	12.097	26.294	194.992	197.399
0.0027	3.894	0.039	11.780	26.922	371.586	375.765
0.002	3.786	0.039	11.434	27.066	501.07	514.918
0.001	4.095	0.041	11.528	27.985	983.974	972.453
$p = 0.5$						
0.1	2.503	0.0278	44.272	84.018	9.229	9.564
0.005	2.494	0.027	37.495	115.207	193.264	194.567
0.0027	2.512	0.027	36.734	123.208	362.996	370.67
0.002	2.503	0.027	36.005	124.74	503.296	488.532
0.001	2.531	0.028	35.167	132.979	988.48	971.968
$p = 0.9$						
0.1	3.900	0.039	79.890	170.495	8.999	9.708
0.005	3.997	0.041	67.896	232.891	217.252	218.698
0.0027	3.952	0.040	66.733	252.688	358.866	358.729
0.002	3.829	0.039	66.681	267.657	483.185	478.586
0.001	3.784	0.039	65.095	284.924	1055.368	1045.77
$m = 40, x_0 = 55, r = 35$						
$p = 0.1$						
0.1	3.982	0.040	14.788	23.134	9.198	9.786
0.005	3.736	0.038	11.898	26.137	197.942	200.359
0.0027	3.932	0.040	11.784	26.912	377.912	380.658
0.002	3.917	0.040	11.632	27.214	493.621	499.410
0.001	3.814	0.039	11.072	27.667	998.736	993.715
$p = 0.5$						
0.1	3.878	0.039	40.204	67.263	9.132	9.362
0.005	3.794	0.039	35.513	89.176	198.183	198.474
0.0027	3.898	0.039	34.708	92.318	359.332	356.474
0.002	3.825	0.039	34.375	95.111	496.614	493.678
0.001	3.842	0.039	33.474	98.635	974.028	967.235
$p = 0.9$						
0.1	3.852	0.039	80.054	171.3	9.423	8.836
0.005	4.008	0.041	66.133	232.144	210.664	207.081
0.0027	3.924	0.040	65.055	252.767	370.094	370.317
0.002	3.845	0.039	64.789	264.826	501.823	497.035
0.001	3.823	0.039	63.645	287.609	1060.917	1072.800
$m = 25, x_0 = 70, r = 15$						
$p = 0.1$						
0.1	2.85	0.031	11.932	24.484	9.075	9.822
0.005	2.869	0.031	8.954	29.986	194.054	189.316
0.0027	2.855	0.031	8.459	30.878	356.592	354.291
0.002	2.870	0.031	8.359	31.497	498.327	498.327
0.001	2.883	0.032	7.855	32.205	1006.289	983.451
$p = 0.5$						
0.1	2.832	0.031	41.750	70.441	9.128	9.419
0.005	2.914	0.031	35.082	96.917	199.993	204.249
0.0027	2.864	0.031	33.606	101.857	373.372	378.762
0.002	2.838	0.031	33.179	106.356	506.805	526.741
0.001	2.876	0.031	32.025	111.392	976.043	962.025
$p = 0.9$						
0.1	2.851	0.031	96.561	182.511	8.788	9.209
0.005	2.821	0.031	77.351	270.358	194.856	200.642
0.0027	2.843	0.031	74.817	286.522	400.526	400.402
0.002	2.581	0.031	73.916	302.909	458.016	457.852
0.001	2.841	0.031	70.663	319.773	1025.175	1004.552
$m = 25, x_0 = 70, r = 20$						
$p = 0.1$						
0.1	4.748	0.0465	15.550	27.219	9.091	9.500
0.005	4.792	0.046	12.467	32.308	198.842	197.303
0.0027	4.891	0.046	12.337	33.719	378.966	382.839
0.002	4.968	0.047	12.034	33.675	490.950	489.029
0.001	4.738	0.045	11.221	34.438	984.621	984.048
$p = 0.5$						
0.1	4.811	0.046	37.059	55.666	8.974	9.612
0.005	4.804	0.046	32.221	68.410	199.735	202.615
0.0027	4.783	0.045	31.681	72.234	366.767	362.857
0.002	4.929	0.046	31.323	72.598	508.148	511.174
0.001	4.759	0.046	30.461	76.763	982.873	994.352
$p = 0.9$						
0.1	4.913	0.046	67.604	117.085	9.308	8.976
0.005	4.774	0.046	57.159	161.266	202.340	200.612
0.0027	4.817	0.046	56.277	176.398	363.095	356.985
0.002	4.789	0.046	55.146	178.642	518.166	529.807
0.001	4.823	0.046	53.239	187.111	1013.308	1055.570
$m = 40, x_0 = 70, r = 30$						
$p = 0.1$						
0.1	4.490	0.044	15.967	25.259	9.017	9.654
0.005	4.410	0.043	13.298	29.299	195.595	196.360
0.0027	4.491	0.044	13.071	30.153	358.369	351.506
0.002	4.563	0.044	12.992	30.353	494.728	497.457
0.001	4.450	0.043	12.346	31.002	969.354	992.311
$p = 0.5$						
0.1	4.354	0.043	39.241	54.206	8.975	9.327

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ν	θ	λ	LCL	UCL	ARL_0	$SDRL_0$
0.005	4.363	0.043	35.250	64.082	194.275	195.113
0.0027	4.348	0.434	34.324	65.286	361.189	345.430
0.002	4.531	0.044	34.147	65.598	499.626	504.093
0.001	4.403	0.043	33.746	69.507	967.592	974.619
$p = 0.9$						
0.1	4.466	0.043	75.657	115.239	9.128	9.807
0.005	4.431	0.044	65.931	146.569	197.499	195.845
0.0027	4.387	0.044	64.441	153.629	374.160	366.423
0.002	4.416	0.043	64.231	159.318	490.342	487.078
0.001	4.332	0.042	63.081	170.417	998.072	1004.605
$m = 40, x_0 = 70, r = 35$						
$p = 0.1$						
0.1	5.099	0.048	16.987	31.039	9.009	9.445
0.005	5.211	0.048	14.599	30.020	200.179	198.202
0.0027	5.157	0.048	13.956	30.332	378.016	379.920
0.002	5.253	0.048	13.965	30.812	483.591	494.707
0.001	5.178	0.048	13.372	31.252	969.366	978.296
$p = 0.5$						
0.1	5.207	0.048	37.905	51.624	9.263	9.805
0.005	5.129	0.047	34.250	59.701	198.445	201.138
0.0027	5.077	0.048	33.582	61.249	371.043	369.694
0.002	4.905	0.046	33.499	63.380	504.436	500.516
0.001	5.154	0.048	32.929	64.138	981.467	995.158
$p = 0.9$						
0.1	5.208	0.048	68.413	104.205	8.935	9.597
0.005	5.209	0.048	61.156	132.089	196.665	197.578
0.0027	5.072	0.047	60.212	139.842	362.635	361.404
0.002	5.092	0.048	58.875	138.727	498.193	493.579
0.001	5.113	0.048	58.059	146.944	993.288	1002.445

Table 2: OOC performance for $m = 25, x_0 = 55, r = 15, \theta = 5.5, \lambda = 0.05$

$\Delta\lambda$	$p = 0.1$	$p = 0.5$	$p = 0.9$
$\Delta\theta = -0.3$			
	ARL(SDRL)	ARL(SDRL)	ARL(SDRL)
-0.2	8.071 (8.594)	16.451 (16.023)	15.109 (14.112)
-0.1	9.415 (10.004)	16.300 (17.133)	17.019 (17.138)
-0.08	9.975(10.444)	18.050(19.192)	16.078(17.290)
-0.06	10.134(9.291)	19.007(18.010)	18.653(18.365)
-0.04	10.950(8.723)	19.946(18.721)	21.894(21.022)
-0.02	11.639(9.904)	21.681(20.257)	32.333(32.958)
0	10.541 (9.251)	20.041 (21.078)	36.721 (36.002)
0.02	5.334(5.781)	6.766(7.240)	20.751(21.542)
0.04	4.723(5.139)	5.463(5.996)	17.341(17.914)
0.06	4.293(4.852)	4.620(5.132)	14.310(14.473)
0.08	3.882(4.308)	3.931(4.366)	12.156(12.797)
0.1	3.570 (4.023)	3.364 (3.846)	9.961 (10.623)
0.2	2.183 (2.702)	1.453 (1.927)	4.538 (5.118)
0.3	1.387 (1.822)	0.756 (1.182)	2.333 (2.825)
$\Delta\theta = -0.2$			
-0.3	35.950 (36.976)	23.445 (23.949)	24.664 (25.280)
-0.1	61.271 (60.222)	127.080 (127.506)	157.182 (158.833)
-0.08	54.435 (55.689)	94.709 (193.538)	207.804 (206.153)
-0.06	46.315 (46.097)	74.016 (73.762)	164.721 (168.005)
-0.04	33.551 (34.483)	54.724 (55.509)	127.318 (124.859)
-0.02	27.908 (28.031)	41.884 (41.318)	96.785 (98.045)
0	25.954 (26.304)	31.898 (32.191)	75.108 (77.694)
0.02	20.762 (21.244)	25.563 (26.411)	59.844 (60.967)
0.04	18.362 (17.736)	20.345 (20.977)	46.644 (46.517)
0.06	15.654 (16.147)	15.624 (16.179)	36.663 (37.373)
0.08	13.655 (14.395)	12.501 (13.140)	29.571 (30.682)
0.1	11.972 (12.555)	10.264 (10.795)	23.464 (24.721)
0.2	6.861 (7.329)	3.990 (4.371)	9.508 (9.862)
0.3	4.073 (4.489)	1.880 (2.343)	4.361 (4.842)
$\Delta\theta = -0.1$			
-0.3	12.388 (12.896)	8.710 (9.099)	9.430 (9.973)
-0.2	63.085 (64.036)	45.780 (46.784)	49.016 (50.760)
-0.08	198.434 (197.024)	262.096 (266.725)	314.749 (317.814)
-0.06	178.580 (173.978)	263.839 (264.534)	340.554 (341.785)
-0.04	155.577 (156.147)	228.006 (226.347)	311.412 (311.228)
-0.02	135.275 (136.893)	181.486 (179.450)	266.279 (269.387)
0	123.055 (124.551)	140.192 (142.782)	215.486 (214.190)
0.02	91.102 (90.584)	102.635 (100.961)	164.303 (161.264)
0.04	77.828 (78.596)	77.164 (77.172)	125.107 (125.513)
0.06	64.256 (65.345)	59.231 (58.065)	96.188 (96.402)
0.08	54.182 (55.813)	45.851 (45.705)	75.810 (76.306)
0.1	51.479 (52.428)	35.402 (35.681)	59.754 (59.929)
0.2	24.233 (24.276)	11.190 (11.619)	20.097 (20.594)
0.3	12.371 (12.949)	4.371 (4.957)	8.461 (9.041)
$\Delta\theta = -0.08$			
-0.3	11.886(12.673)	7.775(8.267)	7.899(8.255)
-0.2	61.563 (61.407)	37.695 (37.675)	39.176 (38.924)
-0.1	215.642 (209.788)	205.235 (202.819)	226.998 (230.446)
-0.06	226.573 (227.238)	279.552 (279.899)	306.655 (307.643)
-0.04	205.435 (205.503)	270.143 (268.302)	315.048 (318.793)

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Table 2 – Continued from previous page

$\Delta\lambda$	$p = 0.1$	$p = 0.5$	0.9
-0.02	174.515 (171.644)	236.296 (231.238)	287.769 (287.914)
0	150.818 (152.212)	180.879 (181.724)	211.515 (210.278)
0.02	129.346 (129.425)	133.565 (132.856)	198.244 (202.245)
0.04	106.854 (106.836)	102.946 (103.456)	153.449 (152.253)
0.06	88.418 (89.227)	78.821 (77.653)	121.086 (121.408)
0.08	75.401 (75.139)	57.324 (57.387)	91.256 (92.481)
0.1	63.326 (64.821)	44.105 (44.193)	72.867 (73.186)
0.2	28.112 (28.448)	13.641 (14.115)	23.975 (24.209)
0.3	14.353(14.892)	5.161(5.548)	9.592(10.032)
$\Delta\theta = -0.06$			
-0.3	9.893(10.463)	6.448(7.056)	6.586(6.998)
-0.2	48.117 (49.646)	30.908 (31.087)	32.991 (33.657)
-0.1	213.661 (210.378)	179.409 (177.378)	183.967 (183.990)
-0.08	251.301 (248.520)	233.205 (233.415)	254.553 (258.357)
-0.04	252.823 (252.657)	307.411 (309.388)	327.791 (329.037)
-0.02	228.497 (233.517)	283.904 (278.001)	304.651 (300.923)
0	204.217 (203.632)	238.552 (239.031)	277.182 (273.787)
0.02	167.358 (172.887)	176.706 (178.378)	243.192 (240.835)
0.04	142.135 (141.693)	140.615(137.063)	190.432 (187.359)
0.06	121.480 (119.899)	101.555 (102.258)	143.980 (143.508)
0.08	101.719 (99.834)	75.899 (76.290)	112.152 (115.584)
0.1	82.816 (83.910)	58.432 (58.148)	84.175 (82.994)
0.2	36.061 (35.892)	16.787 (17.355)	26.634 (26.932)
0.3	18.181(18.611)	6.237(6.747)	6.687(7.171)
$\Delta\theta = -0.04$			
-0.3	8.116(8.717)	5.438(5.981)	5.666(6.221)
-0.2	39.919 (40.091)	24.881 (25.368)	27.687 (27.828)
-0.1	202.228 (202.461)	144.353 (148.195)	156.115 (156.972)
-0.08	240.958 (237.041)	197.099 (201.085)	216.393 (215.429)
-0.06	287.695 (282.448)	261.544 (259.733)	282.848 (281.407)
-0.02	288.003 (288.531)	326.057 (325.667)	340.305 (337.266)
0	262.173 (263.314)	290.495 (288.586)	311.873 (306.750)
0.02	226.845 (226.034)	231.251 (233.209)	287.975 (287.018)
0.04	198.517 (189.025)	177.966 (179.320)	229.115 (232.436)
0.06	164.970 (164.305)	131.281 (131.383)	177.014 (175.740)
0.08	133.642 (135.438)	101.146 (100.476)	133.021 (131.784)
0.1	112.469 (112.791)	76.257 (77.329)	103.376 (101.785)
0.2	48.386 (48.633)	20.929 (21.263)	31.555 (32.532)
0.3	22.761(22.997)	7.283(7.664)	12.396(13.141)
$\Delta\theta = -0.02$			
-0.3	7.164(7.811)	4.725(5.133)	4.939(5.471)
-0.2	33.497 (34.843)	21.208 (21.850)	22.540 (22.257)
-0.1	170.787 (172.114)	120.951 (120.508)	130.460 (131.825)
-0.08	224.713 (229.501)	170.848 (174.452)	181.880 (185.662)
-0.06	281.890 (282.828)	234.437 (236.225)	254.898 (254.178)
-0.04	322.881 (322.501)	296.366 (297.089)	311.082 (312.213)
0	316.098 (319.640)	326.129 (325.610)	353.417 (354.495)
0.02	290.143 (291.939)	281.609 (285.059)	329.318 (331.790)
0.04	254.654 (253.103)	236.123 (238.064)	270.141 (268.717)
0.06	208.181 (210.002)	178.408 (176.740)	211.014 (208.905)
0.08	182.292 (181.063)	129.337 (129.630)	159.043 (159.878)
0.1	151.083 (153.169)	99.703 (98.518)	122.928 (120.460)
0.2	64.170 (62.063)	26.619 (27.183)	37.580 (37.805)
0.3	28.934(29.525)	8.812(9.258)	13.903(14.351)
$\Delta\theta = 0$			
-0.3	5.146 (5.685)	4.026 (4.498)	4.342 (4.885)
-0.2	23.873 (24.526)	17.853 (18.572)	19.796 (20.633)
-0.1	120.044 (121.699)	98.649 (98.686)	107.044 (109.599)
-0.08	197.698 (195.721)	142.851 (143.442)	149.982 (152.995)
-0.06	248.660 (249.337)	198.897 (200.854)	206.549 (205.732)
-0.04	318.115 (313.830)	267.130 (267.405)	287.480 (288.742)
-0.02	347.811 (346.613)	330.700 (327.919)	346.422 (342.225)
0.02	349.378 (341.547)	345.469 (343.1509)	347.475 (343.017)
0.04	307.966 (305.231)	292.367 (293.186)	315.871 (311.009)
0.06	285.495 (287.511)	224.780 (222.699)	255.153 (256.592)
0.08	245.649 (241.926)	170.219 (169.888)	195.335 (196.753)
0.1	228.174 (224.763)	127.124 (125.624)	146.773 (147.685)
0.2	93.332 (92.879)	33.757 (33.946)	43.583 (44.329)
0.3	42.378 (43.231)	11.149 (11.803)	16.315 (16.910)
$\Delta\theta = 0.02$			
-0.3	2.014(5.482)	3.554(3.990)	3.646(4.134)
-0.2	22.453 (23.251)	15.312 (15.695)	16.197 (16.674)
-0.1	121.237 (121.867)	80.721 (81.123)	87.831 (89.568)
-0.08	164.530 (165.194)	116.477 (117.060)	124.528 (122.930)
-0.06	225.273 (223.209)	167.112 (166.062)	174.944 (174.176)
-0.04	285.688 (285.807)	230.741 (230.871)	247.017 (243.818)
-0.02	325.712 (321.820)	309.026 (310.978)	316.239 (313.509)
0	351.165 (352.190)	339.507 (338.933)	351.835 (352.645)
0.04	327.298 (327.598)	341.754 (340.489)	358.973 (354.868)
0.06	284.917 (278.141)	292.467 (289.143)	298.720 (297.358)
0.08	244.925 (246.697)	219.153 (216.450)	238.672 (237.522)
0.1	216.756 (213.139)	168.603 (169.045)	178.548 (175.878)
0.2	110.682 (109.558)	42.547 (42.668)	50.968 (51.535)
0.3	49.894(49.325)	12.505(13.124)	18.327(18.749)
$\Delta\theta = 0.04$			
-0.3	4.258(4.744)	3.139(3.536)	3.334(3.829)
-0.2	19.298 (20.088)	2.681 (13.379)	13.767 (14.128)
-0.1	97.294 (96.922)	67.063 (67.514)	71.071 (70.970)
-0.08	134.830 (134.146)	97.933 (98.592)	104.091 (103.166)
-0.06	195.094 (195.483)	138.501 (139.310)	147.901 (147.183)
-0.04	258.640 (254.946)	195.995 (196.845)	202.986 (202.735)

Continued on next page

Table 2 – Continued from previous page

$\Delta\lambda$	$p = 0.1$	$p = 0.5$	0.9
-0.02	324.457 (315.447)	269.969 (269.319)	290.090 (291.774)
0	338.298 (337.423)	326.874 (321.441)	337.103 (337.252)
0.02	353.916 (355.162)	307.010 (302.873)	348.082 (349.941)
0.06	312.641 (318.930)	262.881 (266.375)	315.847 (314.416)
0.08	283.480 (280.010)	234.701 (231.158)	276.028 (273.423)
0.1	246.262 (244.174)	216.532 (218.505)	214.942 (213.660)
0.2	148.436 (148.675)	52.733 (54.212)	61.271 (61.084)
0.3	63.508(62.827)	15.548(16.290)	20.046(20.429)
$\Delta\theta = 0.06$			
-0.3	3.773(4.181)	2.647(3.255)	2.825(3.151)
-0.2	15.951 (16.193)	10.821 (11.349)	12.082 (12.475)
-0.1	81.565 (79.756)	56.805 (57.194)	59.442 (60.425)
-0.08	113.241 (115.676)	78.945 (79.865)	87.668 (86.476)
-0.06	155.420 (154.542)	116.008 (117.311)	120.866 (120.387)
-0.04	215.970 (213.989)	163.720 (161.567)	176.411 (177.459)
-0.02	291.390 (290.645)	235.395 (235.929)	237.869 (239.999)
0	319.040 (314.315)	310.375 (307.344)	302.283 (304.516)
0.02	351.823 (344.020)	302.774 (301.931)	305.684 (305.013)
0.04	307.645 (309.847)	317.919 (319.292)	287.804 (281.186)
0.08	289.209 (282.092)	253.376 (249.784)	273.810 (275.690)
0.1	165.600 (166.456)	181.284 (183.759)	204.824 (206.420)
0.2	93.899 (86.272)	67.307 (67.272)	70.855 (70.129)
0.3	83.568(83.462)	18.510(18.518)	23.647(24.229)
$\Delta\theta = 0.08$			
-0.3	3.197(3.626)	2.413(2.916)	2.443(2.826)
-0.2	13.171 (13.351)	9.390 (9.708)	10.017 (10.386)
-0.1	65.757 (67.911)	47.064 (46.972)	50.248 (49.601)
-0.08	92.555 (93.534)	65.688 (65.594)	70.905 (70.764)
-0.06	130.089 (129.537)	93.709 (94.519)	101.872 (103.465)
-0.04	176.979 (177.393)	138.650 (138.043)	154.428 (149.648)
-0.02	245.615 (250.181)	198.299 (196.548)	213.642 (214.738)
0	322.647 (322.225)	272.080 (277.007)	281.983 (277.233)
0.02	316.544 (318.740)	323.037 (324.774)	333.435 (330.259)
0.04	289.769 (282.429)	248.173 (250.649)	314.347 (311.741)
0.06	161.657 (154.789)	174.933 (173.759)	224.01 (217.134)
0.1	125.323 (120.744)	102.847 (103.731)	195.939 (189.567)
0.2	107.973 (102.402)	84.612 (84.106)	82.274 (81.494)
0.3	25.917(26.392)	23.275(23.464)	26.788(27.545)
$\Delta\theta = 0.1$			
-0.3	2.582 (3.004)	2.060 (2.475)	2.144 (2.565)
-0.2	10.044 (10.573)	8.237 (8.744)	8.633 (9.220)
-0.1	45.458 (45.288)	40.190 (40.169)	42.671 (43.072)
-0.08	78.066 (79.923)	56.408 (56.222)	60.550 (59.510)
-0.06	108.639 (110.753)	78.858 (76.372)	85.276 (85.831)
-0.04	152.238 (151.485)	111.594 (114.535)	121.627 (121.197)
-0.02	211.178 (213.879)	166.236 (170.004)	180.452 (176.148)
0	243.698 (246.604)	233.343 (238.010)	242.020 (242.069)
0.02	304.725 (303.160)	305.640 (303.013)	307.912 (307.655)
0.04	272.858 (279.499)	280.166 (281.112)	289.241 (295.188)
0.06	229.642 (226.153)	192.379 (193.960)	218.105 (221.838)
0.08	196.232 (198.063)	151.472 (152.54)	202.449 (202.458)
0.2	101.995 (101.021)	107.061 (108.357)	97.898 (100.107)
0.3	31.119 (29.927)	28.886 (28.749)	31.125 (31.195)
$\Delta\theta = 0.2$			
-0.3	1.367 (1.777)	1.141 (1.568)	1.220 (1.666)
-0.2	4.940 (5.430)	4.284 (4.768)	4.579 (5.153)
-0.1	19.818 (20.438)	18.222 (18.748)	19.698 (20.689)
-0.08	32.992 (33.615)	24.992 (25.745)	27.607 (28.223)
-0.06	44.450 (45.491)	34.922 (35.687)	38.127 (38.019)
-0.04	61.030 (61.835)	48.214 (49.086)	52.721 (53.135)
-0.02	85.146 (84.163)	70.125 (70.402)	76.241 (76.271)
0	98.400 (98.306)	99.780 (101.924)	108.355 (107.993)
0.02	158.717 (154.999)	143.573 (142.778)	148.627 (151.554)
0.04	220.958 (221.866)	201.934 (200.050)	213.975 (213.585)
0.06	190.662 (190.574)	195.769 (190.288)	197.689 (189.725)
0.08	136.692 (137.831)	111.273 (114.226)	175.503 (174.908)
0.1	125.508 (117.243)	134.163 (137.397)	153.334 (145.659)
0.3	581.559 (580.219)	82.061 (85.179)	60.863 (61.331)
$\Delta\theta = 0.3$			
-0.3	0.733 (1.140)	0.614 (0.978)	0.666 (1.043)
-0.2	2.560 (2.991)	2.390 (2.762)	2.624 (3.131)
-0.1	10.291 (10.693)	9.490 (9.792)	10.162 (10.721)
-0.08	15.543(15.827)	13.437(13.687)	13.577(13.903)
-0.06	20.680(21.275)	18.087(18.454)	18.447(18.746)
-0.04	28.642(28.716)	24.397(24.426)	25.407(26.176)
-0.02	38.031(38.667)	34.034(34.785)	35.431(36.771)
0	44.358 (45.876)	46.537 (46.280)	49.652 (50.875)
0.1	186.297 (191.952)	277.517 (276.838)	277.816 (278.703)
0.02	69.029(67.574)	66.001(65.354)	68.319(68.212)
0.04	95.260(96.475)	97.923(96.799)	97.752(98.794)
0.06	77.063(75.622)	76.678(77.609)	70.614(73.677)
0.08	65.598(64.124)	63.965(62.746)	64.623(62.185)
0.2	63.674 (64.070)	55.480 (52.444)	33.937 (34.464)