Log normal Distribution

ARL Table for scale parameter increase from the in-control value in $\mathbf{LN}(0,1)$

		n=5				n = 10				n = 20			
		\bar{X} chart		\tilde{X} chart		\bar{X} chart		\tilde{X} chart		\bar{X} chart		\tilde{X} chart	
\mathbf{shift}	mean	ARL	SDRL	ARL	SDRL	ARL	SDRL	ARL	SDRL	ARL	SDRL	ARL	SDRL
1.00	1.6	10.82	11.28	7.77	8.29	2.73	3.19	2.24	2.67	100.04	101.36	97.88	98.67
1.10	1.8	5.43	5.87	4.14	4.59	2.03	2.49	1.55	1.97	40.06	40.61	42.91	43.00
1.20	2.1	2.04	2.45	1.43	1.86	0.68	1.07	0.44	0.80	16.15	16.75	19.98	20.45
1.50	3.1	0.94	1.35	0.61	0.99	0.22	0.52	0.12	0.36	2.54	3.01	3.89	4.38
1.75	4.6	0.42	0.77	0.25	0.56	0.05	0.24	0.02	0.16	0.94	1.35	1.59	2.05
2.00	7.4	0.06	0.26	0.03	0.17	0.00	0.03	0.00	0.02	0.44	0.79	0.79	1.18