BR1100

Solar Powered Chemical Injection Pump

Setting Controller Stroke and Frequency

Step 1: Determine the pressure that the pump will be injecting into in psi.
Injection Pressure = _____ psi

Step 2: Determine the daily volume that is required to be injected in liters per day.
Daily Injection Volume = _____L/day

Step 3: Use TABLE 1 to approximate the DUTY CYCLE required from the pump. Locate the approximate injection pressure listed on the top of the table and then follow the column down to the approximate daily injection volume located on the left column of the table, the intersecting box is the approximate duty cycle required (ie. for an injection pressure of 250 psi and a daily injection volume of 20 L/day, the duty cycle would be 1.72).
Duty Cycle = _____

Step 4: Determine the frequency of pump cycles required. This is how often (per minute) that the pump will turn on. This can be calculated by dividing 60 by the length of time (in seconds) between pump start cycles (ie. if you wish to have the pump operate once every minute (every 60 seconds), the frequency would be 1, (60 divided by 60 = 1). If you wish to have the pump operate once every 2 minutes (every 120 seconds) the frequency would be 0.5, (60 divided by 120 = 0.5)).
Frequency = _____

Step 5: Use TABLE 2 to determine the stroke by locating the required duty cycle under the required frequency column. The frequency is located across the top of the table and the stroke is located on the left column of the table (ie. for a duty cycle of 1.72 based on a frequency = 1, the stroke would be either 1 or 1.1).
Stroke = _____

Step 6: Enter the Stroke and Frequency into the controller. The resulting Duty Cycle will be displayed.

NOTE: *Similar Duty Cycles can be achieved at various combinations of Stroke and Frequency. The volume output represented here is to be used as a guide only. To accurately set the daily injection rate, the use of a calibrated injection gage is required.*

Useful Formulas'
Duty Cycle = (Stroke * Frequency *100) / 60
Time between Start Cycles (in seconds) = 60 / frequency
Stroke = 0.6 * Duty Cycle / Frequency
Frequency = 0.6 * Duty Cycle / Stroke

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Table 1 - Determine Required Duty Cycle from Required Pressure and Volume

Volume L/day	Pressure PSI																	
	0		100		250		500		1000		1500		2000		2500		3000	
	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle	On time (s/min)	Duty cycle
1	0.035	0.06	0.042	0.07	0.045	0.08	0.058	0.10	0.085	0.14	0.1	0.17	0.145	0.24	0.175	0.29	0.22	0.37
2	0.052	0.09	0.066	0.11	0.075	0.13	0.097	0.16	0.15	0.25	0.2	0.33	0.27	0.45	0.33	0.55	0.42	0.70
3	0.073	0.12	0.09	0.15	0.102	0.17	0.14	0.23	0.23	0.38	0.31	0.52	0.4	0.67	0.5	0.83	0.62	1.03
4	0.094	0.16	0.115	0.19	0.138	0.23	0.19	0.32	0.32	0.53	0.425	0.71	0.54	0.90	0.67	1.12	0.8	1.33
5	0.12	0.20	0.14	0.23	0.177	0.30	0.25	0.42	0.4	0.67	0.53	0.88	0.68	1.13	0.84	1.40	1.02	1.70
6	0.15	0.25	0.175	0.29	0.23	0.38	0.315	0.53	0.49	0.82	0.64	1.07	0.8	1.33	0.98	1.63	1.3	2.17
7	0.18	0.30	0.21	0.35	0.28	0.47	0.38	0.63	0.58	0.97	0.75	1.25	0.95	1.58	1.17	1.95	1.4	2.33
8	0.217	0.36	0.25	0.42	0.33	0.55	0.44	0.73	0.66	1.10	0.85	1.42	1.08	1.80	1.33	2.22	1.6	2.67
9	0.265	0.44	0.31	0.52	0.38	0.63	0.52	0.87	0.75	1.25	0.96	1.60	1.19	1.98	1.48	2.47	1.77	2.95
10	0.306	0.51	0.36	0.60	0.44	0.73	0.57	0.95	0.83	1.38	1.06	1.77	1.32	2.20	1.7	2.83	1.95	3.25
15	0.543	0.91	0.63	1.05	0.75	1.25	0.9	1.50	1.28	2.13	1.65	2.75	2	3.33	2.5	4.17	2.95	4.92
20	0.82	1.37	0.9	1.50	1.03	1.72	1.26	2.10	1.7	2.83	2.12	3.53	2.69	4.48	3.37	5.62	3.96	6.60
25	1.07	1.78	1.19	1.98	1.3	2.17	1.6	2.67	2.15	3.58	2.67	4.45	3.38	5.63	4.22	7.03	4.92	8.20
30	1.37	2.28	1.45	2.42	1.63	2.72	1.9	3.17	2.58	4.30	3.21	5.35	4.07	6.78	5.06	8.43	5.95	9.92
35	1.615	2.69	1.7	2.83	1.9	3.17	2.3	3.83	3.02	5.03	3.77	6.28	4.76	7.93	5.9	9.83	6.94	11.57
40	1.875	3.13	1.97	3.28	2.2	3.67	2.6	4.33	3.45	5.75	4.32	7.20	5.45	9.08	6.81	11.35	8.05	13.42
45	2.13	3.55	2.25	3.75	2.5	4.17	2.95	4.92	3.88	6.47	4.86	8.10	6.14	10.23	7.58	12.63	9	15.00
50	2.4	4.00	2.53	4.22	2.8	4.67	3.28	5.47	4.32	7.20	5.29	8.82	6.83	11.38	8.47	14.12	10.17	16.95
60	2.94	4.90	3.1	5.17	3.4	5.67	3.95	6.58	5.2	8.67	6.42	10.70	8.16	13.60	10.17	16.95	12.05	20.08
70	3.5	5.83	3.65	6.08	3.97	6.62	4.65	7.75	6.1	10.17	7.47	12.45	9.53	15.88	11.93	19.88	14.14	23.57
80	4	6.67	4.2	7.00	4.57	7.62	5.3	8.83	6.94	11.57	8.54	14.23	11	18.33	13.62	22.70	16.14	26.90
90	4.55	7.58	4.75	7.92	5.17	8.62	5.96	9.93	7.82	13.03	9.59	15.98	12.26	20.43	15.21	25.35	18.24	30.40
100	5.1	8.50	5.3	8.83	5.76	9.60	6.65	11.08	8.69	14.48	10.69	17.82	13.69	22.82	17.16	28.60	20.36	33.93
120	6.2	10.33	6.4	10.67	6.96	11.60	7.98	13.30	10.5	17.50	12.63	21.05	16.29	27.15	20.36	33.93	24.43	40.72
140	7.2	12.00	7.5	12.50	8.16	13.60	9.35	15.58	12.2	20.33	14.83	24.72	19.17	31.95	23.86	39.77	28.73	47.88
160	8.3	13.83	8.6	14.33	9.35	15.58	10.95	18.25	13.95	23.25	17.16	28.60	21.93	36.55	27.42	45.70	32.47	54.12
180	9.35	15.58	9.7	16.17	10.9	18.17	12.55	20.92	15.75	26.25	19.27	32.12	24.69	41.15	30.43	50.72	36.55	60.92
200	10.4	17.33	11.25	18.75	11.75	19.58	13.9	23.17	17.5	29.17	21.55	35.92	27.55	45.92	34.09	56.82	41.06	68.43
300	15.7	26.17	16.27	27.12	17.7	29.50	20.25	33.75	26.3	43.83	32.12	53.53	41.23	68.72	51.37	85.62		
400	21	35.00	21.8	36.33	23.3	38.83	26.6	44.33	35.05	58.42	43.17	71.95	55.35	92.25				
500	26.3	43.83	27.3	45.50	29.5	49.17	33.9	56.50	43.9	73.17	53.91	89.85						
600	31.6	52.67	32.7	54.50	35.6	59.33	40.7	67.83	51.4	85.67								
800	42.2	70.33	43.65	72.75	47.55	79.25	54.36	90.60										
1000	52.8	88.00	54.6	91.00	58.75	97.92												

Table 2 - Determine Stroke from Required Frequency and Duty Cycle

Frequency **(TIME BETWEEN START CYCLES IN SECONDS = 60 / FREQUENCY)**

Stroke	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9
0.1	0.02	0.03	0.05	0.07	0.08	0.10	0.12	0.13	0.15	0.17	0.18	0.20	0.22	0.23	0.25	0.27	0.28	0.30	0.32	0.33	0.35	0.37	0.38	0.40	0.42	0.43	0.45	0.47	0.48	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.63	0.65	0.67	0.68	0.70	0.72	0.73	0.75	0.77	0.78	0.80	0.82
0.2	0.03	0.07	0.10	0.13	0.17	0.20	0.23	0.27	0.30	0.33	0.37	0.40	0.43	0.47	0.50	0.53	0.57	0.60	0.63	0.67	0.70	0.73	0.77	0.80	0.83	0.87	0.90	0.93	0.97	1.00	1.03	1.07	1.10	1.13	1.17	1.20	1.23	1.27	1.30	1.33	1.37	1.40	1.43	1.47	1.50	1.53	1.57	1.60	1.63
0.3	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45
0.4	0.07	0.13	0.20	0.27	0.33	0.40	0.47	0.53	0.60	0.67	0.73	0.80	0.87	0.93	1.00	1.07	1.13	1.20	1.27	1.33	1.40	1.47	1.53	1.60	1.67	1.73	1.80	1.87	1.93	2.00	2.07	2.13	2.20	2.27	2.33	2.40	2.47	2.53	2.60	2.67	2.73	2.80	2.87	2.93	3.00	3.07	3.13	3.20	3.27
0.5	0.08	0.17	0.25	0.33	0.42	0.50	0.58	0.67	0.75	0.83	0.92	1.00	1.08	1.17	1.25	1.33	1.42	1.50	1.58	1.67	1.75	1.83	1.92	2.00	2.08	2.17	2.25	2.33	2.42	2.50	2.58	2.67	2.75	2.83	2.92	3.00	3.08	3.17	3.25	3.33	3.42	3.50	3.58	3.67	3.75	3.83	3.92	4.00	4.08
0.6	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90
0.7	0.12	0.23	0.35	0.47	0.58	0.70	0.82	0.93	1.05	1.17	1.28	1.40	1.52	1.63	1.75	1.87	1.98	2.10	2.22	2.33	2.45	2.57	2.68	2.80	2.92	3.03	3.15	3.27	3.38	3.50	3.62	3.73	3.85	3.97	4.08	4.20	4.32	4.43	4.55	4.67	4.78	4.90	5.02	5.13	5.25	5.37	5.48	5.60	5.72
0.8	0.13	0.27	0.40	0.53	0.67	0.80	0.93	1.07	1.20	1.33	1.47	1.60	1.73	1.87	2.00	2.13	2.27	2.40	2.53	2.67	2.80	2.93	3.07	3.20	3.33	3.47	3.60	3.73	3.87	4.00	4.13	4.27	4.40	4.53	4.67	4.80	4.93	5.07	5.20	5.33	5.47	5.60	5.73	5.87	6.00	6.13	6.27	6.40	6.53
0.9	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35
1	0.17	0.33	0.50	0.67	0.83	1.00	1.17	1.33	1.50	1.67	1.83	2.00	2.17	2.33	2.50	2.67	2.83	3.00	3.17	3.33	3.50	3.67	3.83	4.00	4.17	4.33	4.50	4.67	4.83	5.00	5.17	5.33	5.50	5.67	5.83	6.00	6.17	6.33	6.50	6.67	6.83	7.00	7.17	7.33	7.50	7.67	7.83	8.00	8.17
1.1	0.18	0.37	0.55	0.73	0.92	1.10	1.28	1.47	1.65	1.83	2.02	2.20	2.38	2.57	2.75	2.93	3.12	3.30	3.48	3.67	3.85	4.03	4.22	4.40	4.58	4.77	4.95	5.13	5.32	5.50	5.68	5.87	6.05	6.23	6.42	6.60	6.78	6.97	7.15	7.33	7.52	7.70	7.88	8.07	8.25	8.43	8.62	8.80	8.98
1.2	0.20	0.40	0.60	0.80	1.00	1.20	1.40	1.60	1.80	2.00	2.20	2.40	2.60	2.80	3.00	3.20	3.40	3.60	3.80	4.00	4.20	4.40	4.60	4.80	5.00	5.20	5.40	5.60	5.80	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00	8.20	8.40	8.60	8.80	9.00	9.20	9.40	9.60	9.80
1.3	0.22	0.43	0.65	0.87	1.08	1.30	1.52	1.73	1.95	2.17	2.38	2.60	2.82	3.03	3.25	3.47	3.68	3.90	4.12	4.33	4.55	4.77	4.98	5.20	5.42	5.63	5.85	6.07	6.28	6.50	6.72	6.93	7.15	7.37	7.58	7.80	8.02	8.23	8.45	8.67	8.88	9.10	9.32	9.53	9.75	9.97	10.18	10.40	10.62
1.4	0.23	0.47	0.70	0.93	1.17	1.40	1.63	1.87	2.10	2.33	2.57	2.80	3.03	3.27	3.50	3.73	3.97	4.20	4.43	4.67	4.90	5.13	5.37	5.60	5.83	6.07	6.30	6.53	6.77	7.00	7.23	7.47	7.70	7.93	8.17	8.40	8.63	8.87	9.10	9.33	9.57	9.80	10.03	10.27	10.50	10.73	10.97	11.20	11.43
1.5	0.25	0.50	0.75	1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.25	3.50	3.75	4.00	4.25	4.50	4.75	5.00	5.25	5.50	5.75	6.00	6.25	6.50	6.75	7.00	7.25	7.50	7.75	8.00	8.25	8.50	8.75	9.00	9.25	9.50	9.75	10.00	10.25	10.50	10.75	11.00	11.25	11.50	11.75	12.00	12.25
1.6	0.27	0.53	0.80	1.07	1.33	1.60	1.87	2.13	2.40	2.67	2.93	3.20	3.47	3.73	4.00	4.27	4.53	4.80	5.07	5.33	5.60	5.87	6.13	6.40	6.67	6.93	7.20	7.47	7.73	8.00	8.27	8.53	8.80	9.07	9.33	9.60	9.87	10.13	10.40	10.67	10.93	11.20	11.47	11.73	12.00	12.27	12.53	12.80	13.07
1.7	0.28	0.57	0.85	1.13	1.42	1.70	1.98	2.27	2.55	2.83	3.12	3.40	3.68	3.97	4.25	4.53	4.82	5.10	5.38	5.67	5.95	6.23	6.52	6.80	7.08	7.37	7.65	7.93	8.22	8.50	8.78	9.07	9.35	9.63	9.92	10.20	10.48	10.77	11.05	11.33	11.62	11.90	12.18	12.47	12.75	13.03	13.32	13.60	13.88
1.8	0.30	0.60	0.90	1.20	1.50	1.80	2.10	2.40	2.70	3.00	3.30	3.60	3.90	4.20	4.50	4.80	5.10	5.40	5.70	6.00	6.30	6.60	6.90	7.20	7.50	7.80	8.10	8.40	8.70	9.00	9.30	9.60	9.90	10.20	10.50	10.80	11.10	11.40	11.70	12.00	12.30	12.60	12.90	13.20	13.50	13.80	14.10	14.40	14.70
1.9	0.32	0.63	0.95	1.27	1.58	1.90	2.22	2.53	2.85	3.17	3.48	3.80	4.12	4.43	4.75	5.07	5.38	5.70	6.02	6.33	6.65	6.97	7.28	7.60	7.92	8.23	8.55	8.87	9.18	9.50	9.82	10.13	10.45	10.77	11.08	11.40	11.72	12.03	12.35	12.67	12.98	13.30	13.62	13.93	14.25	14.57	14.88	15.20	15.52
2	0.33	0.67	1.00	1.33	1.67	2.00	2.33	2.67	3.00	3.33	3.67	4.00	4.33	4.67	5.00	5.33	5.67	6.00	6.33	6.67	7.00	7.33	7.67	8.00	8.33	8.67	9.00	9.33	9.67	10.00	10.33	10.67	11.00	11.33	11.67	12.00	12.33	12.67	13.00	13.33	13.67	14.00	14.33	14.67	15.00	15.33	15.67	16.00	16.33
2.1	0.35	0.70	1.05	1.40	1.75	2.10	2.45	2.80	3.15	3.50	3.85	4.20	4.55	4.90	5.25	5.60	5.95	6.30	6.65	7.00	7.35	7.70	8.05	8.40	8.75	9.10	9.45	9.80	10.15	10.50	10.85	11.20	11.55	11.90	12.25	12.60	12.95	13.30	13.65	14.00	14.35	14.70	15.05	15.40	15.75	16.10	16.45	16.80	17.15
2.2	0.37	0.73	1.10	1.47	1.83	2.20	2.57	2.93	3.30	3.67	4.03	4.40	4.77	5.13	5.50	5.87	6.23	6.60	6.97	7.33	7.70	8.07	8.43	8.80	9.17	9.53	9.90	10.27	10.63	11.00	11.37	11.73	12.10	12.47	12.83	13.20	13.57	13.93	14.30	14.67	15.03	15.40	15.77	16.13	16.50	16.87	17.23	17.60	17.97
2.3	0.38	0.77	1.15	1.53	1.92	2.30	2.68	3.07	3.45	3.83	4.22	4.60	4.98	5.37	5.75	6.13	6.52	6.90	7.28	7.67	8.05	8.43	8.82	9.20	9.58	9.97	10.35	10.73	11.12	11.50	11.88	12.27	12.65	13.03	13.42	13.80	14.18	14.57	14.95	15.33	15.72	16.10	16.48	16.87	17.25	17.63	18.02	18.40	18.78
2.4	0.40	0.80	1.20	1.60	2.00	2.40	2.80	3.20	3.60	4.00	4.40	4.80	5.20	5.60	6.00	6.40	6.80	7.20	7.60	8.00	8.40	8.80	9.20	9.60	10.00	10.40	10.80	11.20	11.60	12.00	12.40	12.80	13.20	13.60	14.00	14.40	14.80	15.20	15.60	16.00	16.40	16.80	17.20	17.60	18.00	18.40	18.80	19.20	19.60
2.5	0.42	0.83	1.25	1.67	2.08	2.50	2.92	3.33	3.75	4.17	4.58	5.00	5.42	5.83	6.25	6.67	7.08	7.50	7.92	8.33	8.75	9.17	9.58	10.00	10.42	10.83	11.25	11.67	12.08	12.50	12.92	13.33	13.75	14.17	14.58	15.00	15.42	15.83	16.25	16.67	17.08	17.50	17.92	18.33	18.75	19.17	19.58	20.00	20.42
2.6	0.43	0.87	1.30	1.73	2.17	2.60	3.03	3.47	3.90	4.33	4.77	5.20	5.63	6.07	6.50	6.93	7.37	7.80	8.23	8.67	9.10	9.53	9.97	10.40	10.83	11.27	11.70	12.13	12.57	13.00	13.43	13.87	14.30	14.73	15.17	15.60	16.03	16.47	16.90	17.33	17.77	18.20	18.63	19.07	19.50	19.93	20.37	20.80	21.23
2.7	0.45	0.90	1.35	1.80	2.25	2.70	3.15	3.60	4.05	4.50	4.95	5.40	5.85	6.30	6.75	7.20	7.65	8.10	8.55	9.00	9.45	9.90	10.35	10.80	11.25	11.70	12.15	12.60	13.05	13.50	13.95	14.40	14.85	15.30	15.75	16.20	16.65	17.10	17.55	18.00	18.45	18.90	19.35	19.80	20.25	20.70	21.15	21.60	22.05
2.8	0.47	0.93	1.40	1.87	2.33	2.80	3.27	3.73	4.20	4.67	5.13	5.60	6.07	6.53	7.00	7.47	7.93	8.40	8.87	9.33	9.80	10.27	10.73	11.20	11.67	12.13	12.60	13.07	13.53	14.00	14.47	14.93	15.40	15.87	16.33	16.80	17.27	17.73	18.20	18.67	19.13	19.60	20.07	20.53	21.00	21.47	21.93	22.40	22.87
2.9	0.48	0.97	1.45	1.93	2.42	2.90	3.38	3.87	4.35	4.83	5.32	5.80	6.28	6.77	7.25	7.73	8.22	8.70	9.18	9.67	10.15	10.63	11.12	11.60	12.08	12.57	13.05	13.53	14.02	14.50	14.98	15.47	15.95	16.43	16.92	17.40	17.88	18.37	18.85	19.33	19.82	20.30	20.78	21.27	21.75	22.23	22.72	23.20	23.68
3	0.50	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00	11.50	12.00	12.50	13.00	13.50	14.00	14.50	15.00	15.50	16.00	16.50	17.00	17.50	18.00	18.50	19.00	19.50	20.00	20.50	21.00	21.50	22.00	22.50	23.00	23.50	24.00	24.50
3.1	0.52	1.03	1.55	2.07	2.58	3.10	3.62	4.13	4.65	5.17	5.68	6.20	6.72	7.23	7.75	8.27	8.78	9.30	9.82	10.33	10.85	11.37	11.88	12.40	12.92	13.43	13.95	14.47	14.98	15.50	16.02	16.53	17.05	17.57	18.08	18.60	19.12	19.63	20.15	20.67	21.18	21.70	22.22	22.73	23.25	23.77	24.28	24.80	25.32
3.2	0.53	1.07	1.60	2.13	2.67	3.20	3.73	4.27	4.80	5.33	5.87	6.40	6.93	7.47	8.00	8.53	9.07	9.60	10.13	10.67	11.20	11.73	12.27	12.80	13.33	13.87	14.40	14.93	15.47	16.00	16.53	17.07	17.60	18.13	18.67	19.20	19.73	20.27	20.80	21.33	21.87	22.40	22.93	23.47	24.00	24.53	25.07	25.60	26.13
3.3	0.55	1.10	1.65	2.20	2.75	3.30	3.85	4.40	4.95	5.50	6.05	6.60	7.15	7.70	8.25	8.80	9.35	9.90	10.45	11.00	11.55	12.10	12.65	13.20	13.75	14.30	14.85	15.40	15.95	16.50	17.05	17.60	18.15	18.70	19.25	19.80	20.35	20.90	21.45	22.00	22.55	23.10	23.65	24.20	24.75	25.30	25.85	26.40	26.95
3.4	0.57	1.13	1.70	2.27	2.83	3.40	3.97	4.53	5.10	5.67	6.23	6.80	7.37	7.93	8.50	9.07	9.63	10.20	10.77	11.33	11.90	12.47	13.03	13.60	14.17	14.73	15.30	15.87	16.43	17.00	17.57	18.13	18.70	19.27	19.83	20.40	20.97	21.53	22.10	22.67	23.23	23.80	24.37	24.93	25.50	26.07	26.63	27.20	27.77
3.5	0.58	1.17	1.75	2.33	2.92	3.50	4.08	4.67	5.25	5.83	6.42	7.00	7.58	8.17	8.75	9.33	9.92	10.50	11.08	11.67	12.25	12.83	13.42	14.00	14.58	15.17	15.75	16.33	16.92	17.50	18.08	18.67	19.25	19.83	20.42	21.00	21.58	22.17	22.75	23.33	23.92	24.50	25.08	25.67	26.25	26.83	27.42	28.00	28.58
3.6	0.60	1.20	1.80	2.40	3.00	3.60	4.20	4.80	5.40	6.00	6.60	7.20	7.80	8.40	9.00	9.60	10.20	10.80	11.40	12.00	12.60	13.20	13.80	14.40	15.00	15.60	16.20	16.80	17.40	18.00	18.60	19.20	19.80	20.40	21.00	21.60	22.20	22.80	23.40	24.00	24.60	25.20	25.80	26.40	27.00	27.60	28.20	28.80	29.40
3.7	0.62	1.23	1.85	2.47	3.08	3.70	4.32	4.93	5.55	6.17	6.78	7.40	8.02	8.63	9.25	9.87	10.48	11.10	11.72	12.33	12.95	13.57	14.18	14.80	15.42	16.03	16.65	17.27	17.88	18.50	19.12	19.73	20.35	20.97	21.58	22.20	22.82	23.43	24.05	24.67	25.28	25.90	26.52	27.13	27.75	28.37	28.98	29.60	30.22
3.8	0.63	1.27	1.90	2.53	3.17	3.80	4.43	5.07	5.70	6.33	6.97	7.60	8.23	8.87	9.50	10.13	10.77	11.40	12.03	12.67	13.30	13.93	14.57	15.20	15.83	16.47	17.10	17.73	18.37	19.00	19.63	20.27	20.90	21.53	22.17	22.80	23.43	24.07	24.70	25.33	25.97	26.60	27.23	27.87	28.50	29.13	29.77	30.40	31.03
3.9	0.65	1.30	1.95	2.60	3.25	3.90	4.55	5.20	5.85	6.50	7.15	7.80	8.45	9.10	9.75	10.40	11.05	11.70	12.35	13.00	13.65	14.30	14.95	15.60	16.25	16.90	17.55	18.20	18.85	19.50	20.15	20.80	21.45	22.10	22.75	23.40	24.05	24.70	25.35	26.00	26.65	27.30	27.95	28.60	29.25	29.90	30.55	31.20	31.85
4	0.67	1.33	2.00	2.67	3.33	4.00	4.67	5.33	6.00	6.67	7.33	8.00	8.67	9.33	10.00	10.67	11.33	12.00	12.67	13.33	14.00	14.67	15.33	16.00	16.67	17.33	18.00	18.67	19.33	20.00	20.67	21.33	22.00	22.67	23.33	24.00	24.67	25.33	26.00	26.67	27.33	28.00	28.67	29.33	30.00	30.67	31.33	32.00	32.67
4.1	0.68	1.37	2.05	2.73	3.42	4.10	4.78	5.47	6.15	6.83	7.52	8.20	8.88	9.57	10.25	10.93	11.62	12.30	12.98	13.67	14.35	15.03	15.72	16.40	17.08	17.77	18.45	19.13	19.82	20.50	21.18	21.87	22.55	23.23	23.92	24.60	25.28	25.97	26.65	27.33	28.02	28.70	29.38	30.07	30.75	31.43	32.12	32.80	33.48
4.2	0.70	1.40	2.10	2.80	3.50	4.20	4.90	5.60	6.30	7.00	7.70	8.40	9.10	9.80	10.50	11.20	11.90	12.60	13.30	14.00	14.70	15.40	16.10	16.80	17.50	18.20	18.90	19.60	20.30	21.00	21.70	22.40	23.10	23.80	24.50	25.20	25.90	26.60	27.30	28.00	28.70	29.40	30.10	30.80	31.50	32.20	32.90	33.60	34.30
4.3	0.72	1.43	2.15	2.87	3.58	4.30	5.02	5.73	6.45	7.17	7.88	8.60	9.32	10.03	10.75	11.47	12.18	12.90	13.62	14.33	15.05	15.77	16.48	17.20	17.92	18.63	19.35	20.07	20.78	21.50	22.22	22.93	23.65	24.37	25.08	25.80	26.52	27.23	27.95	28.67	29.38	30.10	30.82	31.53	32.25	32.97	33.68	34.40	35.12
4.4	0.73	1.47	2.20	2.93	3.67	4.40	5.13	5.87	6.60	7.33	8.07	8.80	9.53	10.27	11.00	11.73	12.47	13.20	13.93	14.67	15.40	16.13	16.87	17.60	18.33	19.07	19.80	20.53	21.27	22.00	22.73	23.47	24.20	24.93	25.67	26.40	27.13	27.87	28.60	29.33	30.07	30.80	31.53	32.27	33.00	33.73	34.47	35.20	35.93
4.5	0.75	1.50	2.25	3.00	3.75	4.50	5.25	6.00	6.75	7.50	8.25	9.00	9.75	10.50	11.25	12.00	12.75	13.50	14.25	15.00	15.75	16.50	17.25	18.00	18.75	19.50	20.25	21.00	21.75	22.50	23.25	24.00	24.75	25.50	26.25	27.00	27.75	28.50	29.25	30.00	30.75	31.50	32.25	33.00	33.75	34.50	35.25	36.00	36.75
4.6	0.77	1.53	2.30	3.07	3.83	4.60	5.37	6.13	6.90	7.67	8.43	9.20	9.97	10.73	11.50	12.27	13.03	13.80	14.57	15.33	16.10	16.87	17.63	18.40	19.17	19.93	20.70	21.47	22.23	23.00	23.77	24.53	25.30	26.07	26.83	27.60	28.37	29.13	29.90	30.67	31.43	32.20	32.97	33.73	34.50	35.27	36.03	36.80	37.57
4.7	0.78	1.57	2.35	3.13	3.92	4.70	5.48	6.27	7.05	7.83	8.62	9.40	10.18	10.97	11.75	12.53	13.32	14.10	14.88	15.67	16.45	17.23	18.02	18.80	19.58	20.37	21.15	21.93	22.72	23.50	24.28	25.07	25.85	26.63	27.42	28.20	28.98	29.77	30.55	31.33	32.12	32.90	33.68	34.47	35.25	36.03	36.82	37.60	38.38
4.8	0.80	1.60	2.40	3.20	4.00	4.80	5.60	6.40	7.20	8.00	8.80	9.60	10.40	11.20	12.00	12.80	13.60	14.40	15.20	16.00	16.80	17.60	18.40	19.20	20.00	20.80	21.60	22.40	23.20	24.00	24.80	25.60	26.40	27.20	28.00	28.80	29.60	30.40	31.20	32.00	32.80	33.60	34.40	35.20	36.00	36.80	37.60	38.40	39.20
4.9	0.82	1.63	2.45	3.27	4.08	4.90	5.72	6.53	7.35	8.17	8.98	9.80	10.62	11.43	12.25	13.07	13.88	14.70	15.52	16.33	17.15	17.97	18.78	19.60	20.42	21.23	22.05	22.87	23.68	24.50	25.32	26.13	26.95	27.77	28.58	29.40	30.22	31.03	31.85	32.67	33.48	34.30	35.12	35.93	36.75	37.57	38.38	39.20	40.02
5	0.83	1.67	2.50	3.33	4.17	5.00	5.83	6.67	7.50	8.33	9.17	10.00	10.83	11.67	12.50	13.33	14.17	15.00	15.83	16.67	17.50	18.33	19.17	20.00	20.83	21.67	22.50	23.33	24.17	25.00	25.83	26.67	27.50	28.33	29.17	30.00	30.83	31.67	32.50	33.33	34.17	35.00	35.83	36.67	37.50	38.33	39.17	40.00	40.83
5.1	0.85	1.70	2.55	3.40	4.25	5.10	5.95	6.80	7.65	8.50	9.35	10.20	11.05	11.90	12.75	13.60	14.45	15.30	16.15	17.00	17.85	18.70	19.55	20.40	21.25	22.10	22.95	23.80	24.65	25.50	26.35	27.20	28.05	28.90	29.75	30.60	31.45	32.30	33.15	34.00	34.85	35.70	36.55	37.40	38.25	39.10	39.95	40.80	41.65
5.2	0.87	1.73	2.60	3.47	4.33	5.20	6.07	6.93	7.80	8.67	9.53	10.40	11.27	12.13	13.00	13.87	14.73	15.60	16.47	17.33	18.20	19.07	19.93	20.80	21.67	22.53	23.40	24.27	25.13	26.00	26.87	27.73	28.60	29.47	30.33	31.20	32.07	32.93	33.80	34.67	35.53	36.40	37.27	38.13	39.00	39.87	40.73	41.60	42.47
5.3	0.88	1.77	2.65	3.53	4.42	5.30	6.18	7.07	7.95	8.83	9.72	10.60	11.48	12.37	13.25	14.13	15.02	15.90	16.78	17.67	18.55	19.43	20.32	21.20	22.08	22.97	23.85	24.73	25.62	26.50	27.38	28.27	29.15	30.03	30.92	31.80	32.68	33.57	34.45	35.33	36.22	37.10	37.98	38.87	39.75	40.63	41.52	42.40	43.28
5.4	0.90	1.80	2.70	3.60	4.50	5.40	6.30	7.20	8.10	9.00	9.90	10.80	11.70	12.60	13.50	14.40	15.30	16.20	17.10	18.00	18.90	19.80	20.70	21.60	22.50	23.40	24.30	25.20	26.10	27.00	27.90	28.80	29.70	30.60	31.50	32.40	33.30	34.20	35.10	36.00	36.90	37.80	38.70	39.60	40.50	41.40	42.30	43.20	44.10
5.5	0.92	1.83	2.75	3.67	4.58	5.50	6.42	7.33	8.25	9.17	10.08	11.00	11.92	12.83	13.75	14.67	15.58	16.50	17.42	18.33	19.25	20.17	21.08	22.00	22.92	23.83	24.75	25.67	26.58	27.50	28.42	29.33	30.25	31.17	32.08	33.00	33.92	34.83	35.75	36.67	37.58	38.50	39.42	40.33	41.25	42.17	43.08	44.00	44.92
5.6	0.93	1.87	2.80	3.73	4.67	5.60	6.53	7.47	8.40	9.33	10.27	11.20	12.13	13.07	14.00	14.93	15.87	16.80	17.73	18.67	19.60	20.53	21.47	22.40	23.33	24.27	25.20	26.13	27.07	28.00	28.93	29.87	30.80	31.73	32.67	33.60	34.53	35.47	36.40	37.33	38.27	39.20	40.13	41.07	42.00	42.93	43.87	44.80	45.73
5.7	0.95	1.90	2.85	3.80	4.75	5.70	6.65	7.60	8.55	9.50	10.45	11.40	12.35	13.30	14.25	15.20	16.15	17.10	18.05	19.00	19.95	20.90	21.85	22.80	23.75	24.70	25.65	26.60	27.55	28.50	29.45	30.40	31.35	32.30	33.25	34.20	35.15	36.10	37.05	38.00	38.95	39.90	40.85	41.80	42.75	43.70	44.65	45.60	46.55
5.8	0.97	1.93	2.90	3.87	4.83	5.80	6.77	7.73	8.70	9.67	10.63	11.60	12.57	13.53	14.50	15.47	16.43	17.40	18.37	19.33	20.30	21.27	22.23	23.20	24.17	25.13	26.10	27.07	28.03	29.00	29.97	30.93	31.90	32.87	33.83	34.80	35.77	36.73	37.70	38.67	39.63	40.60	41.57	42.53	43.50	44.47	45.43	46.40	47.37
5.9	0.98	1.97	2.95	3.93	4.92	5.90	6.88	7.87	8.85	9.83	10.82	11.80	12.78	13.77	14.75	15.73	16.72	17.70	18.68	19.67	20.65	21.63	22.62	23.60	24.58	25.57	26.55	27.53	28.52	29.50	30.48	31.47	32.45	33.43	34.42	35.40	36.38	37.37	38.35	39.33	40.32	41.30	42.28	43.27	44.25	45.23	46.22	47.20	48.18
6	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00	30.00	31.00	32.00	33.00	34.00	35.00	36.00	37.00	38.00	39.00	40.00	41.00	42.00	43.00	44.00	45.00	46.00	47.00	48.00	49.00
6.1	1.02	2.03	3.05	4.07	5.08	6.10	7.12	8.13	9.15	10.17	11.18	12.20	13.22	14.23	15.25	16.27	17.28	18.30	19.32	20.33	21.35	22.37	23.38	24.40	25.42	26.43	27.45	28.47	29.48	30.50	31.52	32.53	33.55	34.57	35.58	36.60	37.62	38.63	39.65	40.67	41.68	42.70	43.72	44.73	45.75	46.77	47.78	48.80	49.82
6.2	1.03	2.07	3.10	4.13	5.17	6.20	7.23	8.27	9.30	10.33	11.37	12.40	13.43	14.47	15.50	16.53	17.57	18.60	19.63	20.67	21.70	22.73	23.77	24.80	25.83	26.87	27.90	28.93	29.97	31.00	32.03	33.07	34.10	35.13	36.17	37.20	38.23	39.27	40.30	41.33	42.37	43.40	44.43	45.47	46.50	47.53	48.57	49.60	50.63
6.3	1.05	2.10	3.15	4.20	5.25	6.30	7.35	8.40	9.45	10.50	11.55	12.60	13.65	14.70	15.75	16.80	17.85	18.90	19.95	21.00	22.05	23.10	24.15	25.20	26.25	27.30	28.35	29.40	30.45	31.50	32.55	33.60	34.65	35.70	36.75	37.80	38.85	39.90	40.95	42.00	43.05	44.10	45.15	46.20	47.25	48.30	49.35	50.40	51.45
6.4	1.07	2.13	3.20	4.27	5.33	6.40	7.47	8.53	9.60	10.67	11.73	12.80	13.87	14.93	16.00	17.07	18.13	19.20	20.27	21.33	22.40	23.47	24.53	25.60	26.67	27.73	28.80	29.87	30.93	32.00	33.07	34.13	35.20	36.27	37.33	38.40	39.47	40.53	41.60	42.67	43.73	44.80	45.87	46.93	48.00	49.07	50.13	51.20	52.27
6.5	1.08	2.17	3.25	4.33	5.42	6.50	7.58	8.67	9.75	10.83	11.92	13.00	14.08	15.17	16.25	17.33	18.42	19.50	20.58	21.67	22.75	23.83	24.92	26.00	27.08	28.17	29.25	30.33	31.42	32.50	33.58	34.67	35.75	36.83	37.92	39.00	40.08	41.17	42.25	43.33	44.42	45.50	46.58	47.67	48.75	49.83	50.92	52.00	53.08
6.6	1.10	2.20	3.30	4.40	5.50	6.60	7.70	8.80	9.90	11.00	12.10	13.20	14.30	15.40	16.50	17.60	18.70	19.80	20.90	22.00	23.10	24.20	25.30	26.40	27.50	28.60	29.70	30.80	31.90	33.00	34.10	35.20	36.30	37.40	38.50	39.60	40.70	41.80	42.90	44.00	45.10	46.20	47.30	48.40	49.50	50.60	51.70	52.80	53.90
6.7	1.12	2.23	3.35	4.47	5.58	6.70	7.82	8.93	10.05	11.17	12.28	13.40	14.52	15.63	16.75	17.87	18.98	20.10	21.22	22.33	23.45	24.57	25.68	26.80	27.92	29.03	30.15	31.27	32.38	33.50	34.62	35.73	36.85	37.97	39.08	40.20	41.32	42.43	43.55	44.67	45.78	46.90	48.02	49.13	50.25	51.37	52.48	53.60	54.72
6.8	1.13	2.27	3.40	4.53	5.67	6.80	7.93	9.07	10.20	11.33	12.47	13.60	14.73	15.87	17.00	18.13	19.27	20.40	21.53	22.67	23.80	24.93	26.07	27.20	28.33	29.47	30.60	31.73	32.87	34.00	35.13	36.27	37.40	38.53	39.67	40.80	41.93	43.07	44.20	45.33	46.47	47.60	48.73	49.87	51.00	52.13	53.27	54.40	55.53
6.9	1.15	2.30	3.45	4.60	5.75	6.90	8.05	9.20	10.35	11.50	12.65	13.80	14.95	16.10	17.25	18.40	19.55	20.70	21.85	23.00	24.15	25.30	26.45	27.60	28.75	29.90	31.05	32.20	33.35	34.50	35.65	36.80	37.95	39.10	40.25	41.40	42.55	43.70	44.85	46.00	47.15	48.30	49.45	50.60	51.75	52.90	54.05	55.20	56.35
7	1.17	2.33	3.50	4.67	5.83	7.00	8.17	9.33	10.50	11.67	12.83	14.00	15.17	16.33	17.50	18.67	19.83	21.00	22.17	23.33	24.50	25.67	26.83	28.00	29.17	30.33	31.50	32.67	33.83	35.00	36.17	37.33	38.50	39.67	40.83	42.00	43.17	44.33	45.50	46.67	47.83	49.00	50.17	51.33	52.50	53.67	54.83	56.00	57.17
7.1	1.18	2.37	3.55	4.73	5.92	7.10	8.28	9.47	10.65	11.83	13.02	14.20	15.38	16.57	17.75	18.93	20.12	21.30	22.48	23.67	24.85	26.03	27.22	28.40	29.58	30.77	31.95	33.13	34.32	35.50	36.68	37.87	39.05	40.23	41.42	42.60	43.78	44.97	46.15	47.33	48.52	49.70	50.88	52.07	53.25	54.43	55.62	56.80	57.98
7.2	1.20	2.40	3.60	4.80	6.00	7.20	8.40	9.60	10.80	12.00	13.20	14.40	15.60	16.80	18.00	19.20	20.40	21.60	22.80	24.00	25.20	26.40	27.60	28.80	30.00	31.20	32.40	33.60	34.80	36.00	37.20	38.40	39.60	40.80	42.00	43.20	44.40	45.60	46.80	48.00	49.20	50.40	51.60	52.80	54.00	55.20	56.40	57.60	58.80
7.3	1.22	2.43	3.65	4.87	6.08	7.30	8.52	9.73	10.95	12.17	13.38	14.60	15.82	17.03	18.25	19.47	20.68	21.90	23.12	24.33	25.55	26.77	27.98	29.20	30.42	31.63	32.85	34.07	35.28	36.50	37.72	38.93	40.15	41.37	42.58	43.80	45.02	46.23	47.45	48.67	49.88	51.10	52.32	53.53	54.75	55.97	57.18	58.40	59.62
7.4	1.23	2.47	3.70	4.93	6.17	7.40	8.63	9.87	11.10	12.33	13.57	14.80	16.03	17.27	18.50	19.73	20.97	22.20	23.43	24.67	25.90	27.13	28.37	29.60	30.83	32.07	33.30	34.53	35.77	37.00	38.23	39.47	40.70	41.93	43.17	44.40	45.63	46.87	48.10	49.33	50.57	51.80	53.03	54.27	55.50	56.73	57.97	59.20	60.43
7.5	1.25	2.50	3.75	5.00	6.25	7.50	8.75	10.00	11.25	12.50	13.75	15.00	16.25	17.50	18.75	20.00	21.25	22.50	23.75	25.00	26.25	27.50	28.75	30.00	31.25	32.50	33.75	35.00	36.25	37.50	38.75	40.00	41.25	42.50	43.75	45.00	46.25	47.50	48.75	50.00	51.25	52.50	53.75	55.00	56.25	57.50	58.75	60.00	61.25
7.6	1.27	2.53	3.80	5.07	6.33	7.60	8.87	10.13	11.40	12.67	13.93	15.20	16.47	17.73	19.00	20.27	21.53	22.80	24.07	25.33	26.60	27.87	29.13	30.40	31.67	32.93	34.20	35.47	36.73	38.00	39.27	40.53	41.80	43.07	44.33	45.60	46.87	48.13	49.40	50.67	51.93	53.20	54.47	55.73	57.00	58.27	59.53	60.80	62.07
7.7	1.28	2.57	3.85	5.13	6.42	7.70	8.98	10.27	11.55	12.83	14.12	15.40	16.68	17.97	19.25	20.53	21.82	23.10	24.38	25.67	26.95	28.23	29.52	30.80	32.08	33.37	34.65	35.93	37.22	38.50	39.78	41.07	42.35	43.63	44.92	46.20	47.48	48.77	50.05	51.33	52.62	53.90	55.18	56.47	57.75	59.03	60.32	61.60	62.88
7.8	1.30	2.60	3.90	5.20	6.50	7.80	9.10	10.40	11.70	13.00	14.30	15.60	16.90	18.20	19.50	20.80	22.10	23.40	24.70	26.00	27.30	28.60	29.90	31.20	32.50	33.80	35.10	36.40	37.70	39.00	40.30	41.60	42.90	44.20	45.50	46.80	48.10	49.40	50.70	52.00	53.30	54.60	55.90	57.20	58.50	59.80	61.10	62.40	63.70
7.9	1.32	2.63	3.95	5.27	6.58	7.90	9.22	10.53	11.85	13.17	14.48	15.80	17.12	18.43	19.75	21.07	22.38	23.70	25.02	26.33	27.65	28.97	30.28	31.60	32.92	34.23	35.55	36.87	38.18	39.50	40.82	42.13	43.45	44.77	46.08	47.40	48.72	50.03	51.35	52.67	53.98	55.30	56.62	57.93	59.25	60.57	61.88	63.20	64.52
8	1.33	2.67	4.00	5.33	6.67	8.00	9.33	10.67	12.00	13.33	14.67	16.00	17.33	18.67	20.00	21.33	22.67	24.00	25.33	26.67	28.00	29.33	30.67	32.00	33.33	34.67	36.00	37.33	38.67	40.00	41.33	42.67	44.00	45.33	46.67	48.00	49.33	50.67	52.00	53.33	54.67	56.00	57.33	58.67	60.00	61.33	62.67	64.00	65.33
8.1	1.35	2.70	4.05	5.40	6.75	8.10	9.45	10.80	12.15	13.50	14.85	16.20	17.55	18.90	20.25	21.60	22.95	24.30	25.65	27.00	28.35	29.70	31.05	32.40	33.75	35.10	36.45	37.80	39.15	40.50	41.85	43.20	44.55	45.90	47.25	48.60	49.95	51.30	52.65	54.00	55.35	56.70	58.05	59.40	60.75	62.10	63.45	64.80	66.15
8.2	1.37	2.73	4.10	5.47	6.83	8.20	9.57	10.93	12.30	13.67	15.03	16.40	17.77	19.13	20.50	21.87	23.23	24.60	25.97	27.33	28.70	30.07	31.43	32.80	34.17	35.53	36.90	38.27	39.63	41.00	42.37	43.73	45.10	46.47	47.83	49.20	50.57	51.93	53.30	54.67	56.03	57.40	58.77	60.13	61.50	62.87	64.23	65.60	66.97
8.3	1.38	2.77	4.15	5.53	6.92	8.30	9.68	11.07	12.45	13.83	15.22	16.60	17.98	19.37	20.75	22.13	23.52	24.90	26.28	27.67	29.05	30.43	31.82	33.20	34.58	35.97	37.35	38.73	40.12	41.50	42.88	44.27	45.65	47.03	48.42	49.80	51.18	52.57	53.95	55.33	56.72	58.10	59.48	60.87	62.25	63.63	65.02	66.40	67.78
8.4	1.40	2.80	4.20	5.60	7.00	8.40	9.80	11.20	12.60	14.00	15.40	16.80	18.20	19.60	21.00	22.40	23.80	25.20	26.60	28.00	29.40	30.80	32.20	33.60	35.00	36.40	37.80	39.20	40.60	42.00	43.40	44.80	46.20	47.60	49.00	50.40	51.80	53.20	54.60	56.00	57.40	58.80	60.20	61.60	63.00	64.40	65.80	67.20	68.60
8.5	1.42	2.83	4.25	5.67	7.08	8.50	9.92	11.33	12.75	14.17	15.58	17.00	18.42	19.83	21.25	22.67	24.08	25.50	26.92	28.33	29.75	31.17	32.58	34.00	35.42	36.83	38.25	39.67	41.08	42.50	43.92	45.33	46.75	48.17	49.58	51.00	52.42	53.83	55.25	56.67	58.08	59.50	60.92	62.33	63.75	65.17	66.58	68.00	69.42
8.6	1.43	2.87	4.30	5.73	7.17	8.60	10.03	11.47	12.90	14.33	15.77	17.20	18.63	20.07	21.50	22.93	24.37	25.80	27.23	28.67	30.10	31.53	32.97	34.40	35.83	37.27	38.70	40.13	41.57	43.00	44.43	45.87	47.30	48.73	50.17	51.60	53.03	54.47	55.90	57.33	58.77	60.20	61.63	63.07	64.50	65.93	67.37	68.80	70.23
8.7	1.45	2.90	4.35	5.80	7.25	8.70	10.15	11.60	13.05	14.50	15.95	17.40	18.85	20.30	21.75	23.20	24.65	26.10	27.55	29.00	30.45	31.90	33.35	34.80	36.25	37.70	39.15	40.60	42.05	43.50	44.95	46.40	47.85	49.30	50.75	52.20	53.65	55.10	56.55	58.00	59.45	60.90	62.35	63.80	65.25	66.70	68.15	69.60	71.05
8.8	1.47	2.93	4.40	5.87	7.33	8.80	10.27	11.73	13.20	14.67	16.13	17.60	19.07	20.53	22.00	23.47	24.93	26.40	27.87	29.33	30.80	32.27	33.73	35.20	36.67	38.13	39.60	41.07	42.53	44.00	45.47	46.93	48.40	49.87	51.33	52.80	54.27	55.73	57.20	58.67	60.13	61.60	63.07	64.53	66.00	67.47	68.93	70.40	71.87
8.9	1.48	2.97	4.45	5.93	7.42	8.90	10.38	11.87	13.35	14.83	16.32	17.80	19.28	20.77	22.25	23.73	25.22	26.70	28.18	29.67	31.15	32.63	34.12	35.60	37.08	38.57	40.05	41.53	43.02	44.50	45.98	47.47	48.95	50.43	51.92	53.40	54.88	56.37	57.85	59.33	60.82	62.30	63.78	65.27	66.75	68.23	69.72	71.20	72.68
9	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00	16.50	18.00	19.50	21.00	22.50	24.00	25.50	27.00	28.50	30.00	31.50	33.00	34.50	36.00	37.50	39.00	40.50	42.00	43.50	45.00	46.50	48.00	49.50	51.00	52.50	54.00	55.50	57.00	58.50	60.00	61.50	63.00	64.50	66.00	67.50	69.00	70.50	72.00	73.50
9.1	1.52	3.03	4.55	6.07	7.58	9.10	10.62	12.13	13.65	15.17	16.68	18.20	19.72	21.23	22.75	24.27	25.78	27.30	28.82	30.33	31.85	33.37	34.88	36.40	37.92	39.43	40.95	42.47	43.98	45.50	47.02	48.53	50.05	51.57	53.08	54.60	56.12	57.63	59.15	60.67	62.18	63.70	65.22	66.73	68.25	69.77	71.28	72.80	74.32
9.2	1.53	3.07	4.60	6.13	7.67	9.20	10.73	12.27	13.80	15.33	16.87	18.40	19.93	21.47	23.00	24.53	26.07	27.60	29.13	30.67	32.20	33.73	35.27	36.80	38.33	39.87	41.40	42.93	44.47	46.00	47.53	49.07	50.60	52.13	53.67	55.20	56.73	58.27	59.80	61.33	62.87	64.40	65.93	67.47	69.00	70.53	72.07	73.60	75.13
9.3	1.55	3.10	4.65	6.20	7.75	9.30	10.85	12.40	13.95	15.50	17.05	18.60	20.15	21.70	23.25	24.80	26.35	27.90	29.45	31.00	32.55	34.10	35.65	37.20	38.75	40.30	41.85	43.40	44.95	46.50	48.05	49.60	51.15	52.70	54.25	55.80	57.35	58.90	60.45	62.00	63.55	65.10	66.65	68.20	69.75	71.30	72.85	74.40	75.95
9.4	1.57	3.13	4.70	6.27	7.83	9.40	10.97	12.53	14.10	15.67	17.23	18.80	20.37	21.93	23.50	25.07	26.63	28.20	29.77	31.33	32.90	34.47	36.03	37.60	39.17	40.73	42.30	43.87	45.43	47.00	48.57	50.13	51.70	53.27	54.83	56.40	57.97	59.53	61.10	62.67	64.23	65.80	67.37	68.93	70.50	72.07	73.63	75.20	76.77
9.5	1.58	3.17	4.75	6.33	7.92	9.50	11.08	12.67	14.25	15.83	17.42	19.00	20.58	22.17	23.75	25.33	26.92	28.50	30.08	31.67	33.25	34.83	36.42	38.00	39.58	41.17	42.75	44.33	45.92	47.50	49.08	50.67	52.25	53.83	55.42	57.00	58.58	60.17	61.75	63.33	64.92	66.50	68.08	69.67	71.25	72.83	74.42	76.00	77.58
9.6	1.60	3.20	4.80	6.40	8.00	9.60	11.20	12.80	14.40	16.00	17.60	19.20	20.80	22.40	24.00	25.60	27.20	28.80	30.40	32.00	33.60	35.20	36.80	38.40	40.00	41.60	43.20	44.80	46.40	48.00	49.60	51.20	52.80	54.40	56.00	57.60	59.20	60.80	62.40	64.00	65.60	67.20	68.80	70.40	72.00	73.60	75.20	76.80	78.40
9.7	1.62	3.23	4.85	6.47	8.08	9.70	11.32	12.93	14.55	16.17	17.78	19.40	21.02	22.63	24.25	25.87	27.48	29.10	30.72	32.33	33.95	35.57	37.18	38.80	40.42	42.03	43.65	45.27	46.88	48.50	50.12	51.73	53.35	54.97	56.58	58.20	59.82	61.43	63.05	64.67	66.28	67.90	69.52	71.13	72.75	74.37	75.98	77.60	79.22
9.8	1.63	3.27	4.90	6.53	8.17	9.80	11.43	13.07	14.70	16.33	17.97	19.60	21.23	22.87	24.50	26.13	27.77	29.40	31.03	32.67	34.30	35.93	37.57	39.20	40.83	42.47	44.10	45.73	47.37	49.00	50.63	52.27	53.90	55.53	57.17	58.80	60.43	62.07	63.70	65.33	66.97	68.60	70.23	71.87	73.50	75.13	76.77	78.40	80.03
9.9	1.65	3.30	4.95	6.60	8.25	9.90	11.55	13.20	14.85	16.50	18.15	19.80	21.45	23.10	24.75	26.40	28.05	29.70	31.35	33.00	34.65	36.30	37.95	39.60	41.25	42.90	44.55	46.20	47.85	49.50	51.15	52.80	54.45	56.10	57.75	59.40	61.05	62.70	64.35	66.00	67.65	69.30	70.95	72.60	74.25	75.90	77.55	79.20	80.85

Frequency (TIME BETWEEN START CYCLES IN SECONDS = 60 / FREQUENCY)

Stroke	5	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9
0.1	0.83	0.85	0.87	0.88	0.90	0.92	0.93	0.95	0.97	0.98
0.2	1.67	1.70	1.73	1.77	1.80	1.83	1.87	1.90	1.93	1.97
0.3	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.85	2.90	2.95
0.4	3.33	3.40	3.47	3.53	3.60	3.67	3.73	3.80	3.87	3.93
0.5	4.17	4.25	4.33	4.42	4.50	4.58	4.67	4.75	4.83	4.92
0.6	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90
0.7	5.83	5.95	6.07	6.18	6.30	6.42	6.53	6.65	6.77	6.88
0.8	6.67	6.80	6.93	7.07	7.20	7.33	7.47	7.60	7.73	7.87
0.9	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85
1	8.33	8.50	8.67	8.83	9.00	9.17	9.33	9.50	9.67	9.83
1.1	9.17	9.35	9.53	9.72	9.90	10.08	10.27	10.45	10.63	10.82
1.2	10.00	10.20	10.40	10.60	10.80	11.00	11.20	11.40	11.60	11.80
1.3	10.83	11.05	11.27	11.48	11.70	11.92	12.13	12.35	12.57	12.78
1.4	11.67	11.90	12.13	12.37	12.60	12.83	13.07	13.30	13.53	13.77
1.5	12.50	12.75	13.00	13.25	13.50	13.75	14.00	14.25	14.50	14.75
1.6	13.33	13.60	13.87	14.13	14.40	14.67	14.93	15.20	15.47	15.73
1.7	14.17	14.45	14.73	15.02	15.30	15.58	15.87	16.15	16.43	16.72
1.8	15.00	15.30	15.60	15.90	16.20	16.50	16.80	17.10	17.40	17.70
1.9	15.83	16.15	16.47	16.78	17.10	17.42	17.73	18.05	18.37	18.68
2	16.67	17.00	17.33	17.67	18.00	18.33	18.67	19.00	19.33	19.67
2.1	17.50	17.85	18.20	18.55	18.90	19.25	19.60	19.95	20.30	20.65
2.2	18.33	18.70	19.07	19.43	19.80	20.17	20.53	20.90	21.27	21.63
2.3	19.17	19.55	19.93	20.32	20.70	21.08	21.47	21.85	22.23	22.62
2.4	20.00	20.40	20.80	21.20	21.60	22.00	22.40	22.80	23.20	23.60
2.5	20.83	21.25	21.67	22.08	22.50	22.92	23.33	23.75	24.17	24.58
2.6	21.67	22.10	22.53	22.97	23.40	23.83	24.27	24.70	25.13	25.57
2.7	22.50	22.95	23.40	23.85	24.30	24.75	25.20	25.65	26.10	26.55
2.8	23.33	23.80	24.27	24.73	25.20	25.67	26.13	26.60	27.07	27.53
2.9	24.17	24.65	25.13	25.62	26.10	26.58	27.07	27.55	28.03	28.52
3	25.00	25.50	26.00	26.50	27.00	27.50	28.00	28.50	29.00	29.50
3.1	25.83	26.35	26.87	27.38	27.90	28.42	28.93	29.45	29.97	30.48
3.2	26.67	27.20	27.73	28.27	28.80	29.33	29.87	30.40	30.93	31.47
3.3	27.50	28.05	28.60	29.15	29.70	30.25	30.80	31.35	31.90	32.45
3.4	28.33	28.90	29.47	30.03	30.60	31.17	31.73	32.30	32.87	33.43
3.5	29.17	29.75	30.33	30.92	31.50	32.08	32.67	33.25	33.83	34.42
3.6	30.00	30.60	31.20	31.80	32.40	33.00	33.60	34.20	34.80	35.40
3.7	30.83	31.45	32.07	32.68	33.30	33.92	34.53	35.15	35.77	36.38
3.8	31.67	32.30	32.93	33.57	34.20	34.83	35.47	36.10	36.73	37.37
3.9	32.50	33.15	33.80	34.45	35.10	35.75	36.40	37.05	37.70	38.35
4	33.33	34.00	34.67	35.33	36.00	36.67	37.33	38.00	38.67	39.33
4.1	34.17	34.85	35.53	36.22	36.90	37.58	38.27	38.95	39.63	40.32
4.2	35.00	35.70	36.40	37.10	37.80	38.50	39.20	39.90	40.60	41.30
4.3	35.83	36.55	37.27	37.98	38.70	39.42	40.13	40.85	41.57	42.28
4.4	36.67	37.40	38.13	38.87	39.60	40.33	41.07	41.80	42.53	43.27
4.5	37.50	38.25	39.00	39.75	40.50	41.25	42.00	42.75	43.50	44.25
4.6	38.33	39.10	39.87	40.63	41.40	42.17	42.93	43.70	44.47	45.23
4.7	39.17	39.95	40.73	41.52	42.30	43.08	43.87	44.65	45.43	46.22
4.8	40.00	40.80	41.60	42.40	43.20	44.00	44.80	45.60	46.40	47.20
4.9	40.83	41.65	42.47	43.28	44.10	44.92	45.73	46.55	47.37	48.18
5	41.67	42.50	43.33	44.17	45.00	45.83	46.67	47.50	48.33	49.17
5.1	42.50	43.35	44.20	45.05	45.90	46.75	47.60	48.45	49.30	50.15
5.2	43.33	44.20	45.07	45.93	46.80	47.67	48.53	49.40	50.27	51.13
5.3	44.17	45.05	45.93	46.82	47.70	48.58	49.47	50.35	51.23	52.12
5.4	45.00	45.90	46.80	47.70	48.60	49.50	50.40	51.30	52.20	53.10
5.5	45.83	46.75	47.67	48.58	49.50	50.42	51.33	52.25	53.17	54.08
5.6	46.67	47.60	48.53	49.47	50.40	51.33	52.27	53.20	54.13	55.07
5.7	47.50	48.45	49.40	50.35	51.30	52.25	53.20	54.15	55.10	56.05
5.8	48.33	49.30	50.27	51.23	52.20	53.17	54.13	55.10	56.07	57.03
5.9	49.17	50.15	51.13	52.12	53.10	54.08	55.07	56.05	57.03	58.02
6	50.00	51.00	52.00	53.00	54.00	55.00	56.00	57.00	58.00	59.00
6.1	50.83	51.85	52.87	53.88	54.90	55.92	56.93	57.95	58.97	59.98
6.2	51.67	52.70	53.73	54.77	55.80	56.83	57.87	58.90	59.93	60.97
6.3	52.50	53.55	54.60	55.65	56.70	57.75	58.80	59.85	60.90	61.95
6.4	53.33	54.40	55.47	56.53	57.60	58.67	59.73	60.80	61.87	62.93
6.5	54.17	55.25	56.33	57.42	58.50	59.58	60.67	61.75	62.83	63.92
6.6	55.00	56.10	57.20	58.30	59.40	60.50	61.60	62.70	63.80	64.90
6.7	55.83	56.95	58.07	59.18	60.30	61.42	62.53	63.65	64.77	65.88
6.8	56.67	57.80	58.93	60.07	61.20	62.33	63.47	64.60	65.73	66.87
6.9	57.50	58.65	59.80	60.95	62.10	63.25	64.40	65.55	66.70	67.85
7	58.33	59.50	60.67	61.83	63.00	64.17	65.33	66.50	67.67	68.83
7.1	59.17	60.35	61.53	62.72	63.90	65.08	66.27	67.45	68.63	69.82
7.2	60.00	61.20	62.40	63.60	64.80	66.00	67.20	68.40	69.60	70.80
7.3	60.83	62.05	63.27	64.48	65.70	66.92	68.13	69.35	70.57	71.78
7.4	61.67	62.90	64.13	65.37	66.60	67.83	69.07	70.30	71.53	72.77
7.5	62.50	63.75	65.00	66.25	67.50	68.75	70.00	71.25	72.50	73.75
7.6	63.33	64.60	65.87	67.13	68.40	69.67	70.93	72.20	73.47	74.73
7.7	64.17	65.45	66.73	68.02	69.30	70.58	71.87	73.15	74.43	75.72
7.8	65.00	66.30	67.60	68.90	70.20	71.50	72.80	74.10	75.40	76.70
7.9	65.83	67.15	68.47	69.78	71.10	72.42	73.73	75.05	76.37	77.68
8	66.67	68.00	69.33	70.67	72.00	73.33	74.67	76.00	77.33	78.67
8.1	67.50	68.85	70.20	71.55	72.90	74.25	75.60	76.95	78.30	79.65
8.2	68.33	69.70	71.07	72.43	73.80	75.17	76.53	77.90	79.27	80.63
8.3	69.17	70.55	71.93	73.32	74.70	76.08	77.47	78.85	80.23	81.62
8.4	70.00	71.40	72.80	74.20	75.60	77.00	78.40	79.80	81.20	82.60
8.5	70.83	72.25	73.67	75.08	76.50	77.92	79.33	80.75	82.17	83.58
8.6	71.67	73.10	74.53	75.97	77.40	78.83	80.27	81.70	83.13	84.57
8.7	72.50	73.95	75.40	76.85	78.30	79.75	81.20	82.65	84.10	85.55
8.8	73.33	74.80	76.27	77.73	79.20	80.67	82.13	83.60	85.07	86.53
8.9	74.17	75.65	77.13	78.62	80.10	81.58	83.07	84.55	86.03	87.52
9	75.00	76.50	78.00	79.50	81.00	82.50	84.00	85.50	87.00	88.50
9.1	75.83	77.35	78.87	80.38	81.90	83.42	84.93	86.45	87.97	89.48
9.2	76.67	78.20	79.73	81.27	82.80	84.33	85.87	87.40	88.93	90.47
9.3	77.50	79.05	80.60	82.15	83.70	85.25	86.80	88.35	89.90	91.45
9.4	78.33	79.90	81.47	83.03	84.60	86.17	87.73	89.30	90.87	92.43
9.5	79.17	80.75	82.33	83.92	85.50	87.08	88.67	90.25	91.83	93.42
9.6	80.00	81.60	83.20	84.80	86.40	88.00	89.60	91.20	92.80	94.40
9.7	80.83	82.45	84.07	85.68	87.30	88.92	90.53	92.15	93.77	95.38
9.8	81.67	83.30	84.93	86.57	88.20	89.83	91.47	93.10	94.73	96.37
9.9	82.50	84.15	85.80	87.45	89.10	90.75	92.40	94.05	95.70	97.35

Stroke	6	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9
0.1	1.00	1.02	1.03	1.05	1.07	1.08	1.10	1.12	1.13	1.15
0.2	2.00	2.03	2.07	2.10	2.13	2.17	2.20	2.23	2.27	2.30
0.3	3.00	3.05	3.10	3.15	3.20	3.25	3.30	3.35	3.40	3.45
0.4	4.00	4.07	4.13	4.20	4.27	4.33	4.40	4.47	4.53	4.60
0.5	5.00	5.08	5.17	5.25	5.33	5.42	5.50	5.58	5.67	5.75
0.6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90
0.7	7.00	7.12	7.23	7.35	7.47	7.58	7.70	7.82	7.93	8.05
0.8	8.00	8.13	8.27	8.40	8.53	8.67	8.80	8.93	9.07	9.20
0.9	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35
1	10.00	10.17	10.33	10.50	10.67	10.83	11.00	11.17	11.33	11.50
1.1	11.00	11.18	11.37	11.55	11.73	11.92	12.10	12.28	12.47	12.65
1.2	12.00	12.20	12.40	12.60	12.80	13.00	13.20	13.40	13.60	13.80
1.3	13.00	13.22	13.43	13.65	13.87	14.08	14.30	14.52	14.73	14.95
1.4	14.00	14.23	14.47	14.70	14.93	15.17	15.40	15.63	15.87	16.10
1.5	15.00	15.25	15.50	15.75	16.00	16.25	16.50	16.75	17.00	17.25
1.6	16.00	16.27	16.53	16.80	17.07	17.33	17.60	17.87	18.13	18.40
1.7	17.00	17.28	17.57	17.85	18.13	18.42	18.70	18.98	19.27	19.55
1.8	18.00	18.30	18.60	18.90	19.20	19.50	19.80	20.10	20.40	20.70
1.9	19.00	19.32	19.63	19.95	20.27	20.58	20.90	21.22	21.53	21.85
2	20.00	20.33	20.67	21.00	21.33	21.67	22.00	22.33	22.67	23.00
2.1	21.00	21.35	21.70	22.05	22.40	22.75	23.10	23.45	23.80	24.15
2.2	22.00	22.37	22.73	23.10	23.47	23.83	24.20	24.57	24.93	25.30
2.3	23.00	23.38	23.77	24.15	24.53	24.92	25.30	25.68	26.07	26.45
2.4	24.00	24.40	24.80	25.20	25.60	26.00	26.40	26.80	27.20	27.60
2.5	25.00	25.42	25.83	26.25	26.67	27.08	27.50	27.92	28.33	28.75
2.6	26.00	26.43	26.87	27.30	27.73	28.17	28.60	29.03	29.47	29.90
2.7	27.00	27.45	27.90	28.35	28.80	29.25	29.70	30.15	30.60	31.05
2.8	28.00	28.47	28.93	29.40	29.87	30.33	30.80	31.27	31.73	32.20
2.9	29.00	29.48	29.97	30.45	30.93	31.42	31.90	32.38	32.87	33.35
3	30.00	30.50	31.00	31.50	32.00	32.50	33.00	33.50	34.00	34.50
3.1	31.00	31.52	32.03	32.55	33.07	33.58	34.10	34.62	35.13	35.65
3.2	32.00	32.53	33.07	33.60	34.13	34.67	35.20	35.73	36.27	36.80
3.3	33.00	33.55	34.10	34.65	35.20	35.75	36.30	36.85	37.40	37.95
3.4	34.00	34.57	35.13	35.70	36.27	36.83	37.40	37.97	38.53	39.10
3.5	35.00	35.58	36.17	36.75	37.33	37.92	38.50	39.08	39.67	40.25
3.6	36.00	36.60	37.20	37.80	38.40	39.00	39.60	40.20	40.80	41.40
3.7	37.00	37.62	38.23	38.85	39.47	40.08	40.70	41.32	41.93	42.55
3.8	38.00	38.63	39.27	39.90	40.53	41.17	41.80	42.43	43.07	43.70
3.9	39.00	39.65	40.30	40.95	41.60	42.25	42.90	43.55	44.20	44.85
4	40.00	40.67	41.33	42.00	42.67	43.33	44.00	44.67	45.33	46.00
4.1	41.00	41.68	42.37	43.05	43.73	44.42	45.10	45.78	46.47	47.15
4.2	42.00	42.70	43.40	44.10	44.80	45.50	46.20	46.90	47.60	48.30
4.3	43.00	43.72	44.43	45.15	45.87	46.58	47.30	48.02	48.73	49.45
4.4	44.00	44.73	45.47	46.20	46.93	47.67	48.40	49.13	49.87	50.60
4.5	45.00	45.75	46.50	47.25	48.00	48.75	49.50	50.25	51.00	51.75
4.6	46.00	46.77	47.53	48.30	49.07	49.83	50.60	51.37	52.13	52.90
4.7	47.00	47.78	48.57	49.35	50.13	50.92	51.70	52.48	53.27	54.05
4.8	48.00	48.80	49.60	50.40	51.20	52.00	52.80	53.60	54.40	55.20
4.9	49.00	49.82	50.63	51.45	52.27	53.08	53.90	54.72	55.53	56.35
5	50.00	50.83	51.67	52.50	53.33	54.17	55.00	55.83	56.67	57.50
5.1	51.00	51.85	52.70	53.55	54.40	55.25	56.10	56.95	57.80	58.65
5.2	52.00	52.87	53.73	54.60	55.47	56.33	57.20	58.07	58.93	59.80
5.3	53.00	53.88	54.77	55.65	56.53	57.42	58.30	59.18	60.07	60.95
5.4	54.00	54.90	55.80	56.70	57.60	58.50	59.40	60.30	61.20	62.10
5.5	55.00	55.92	56.83	57.75	58.67	59.58	60.50	61.42	62.33	63.25
5.6	56.00	56.93	57.87	58.80	59.73	60.67	61.60	62.53	63.47	64.40
5.7	57.00	57.95	58.90	59.85	60.80	61.75	62.70	63.65	64.60	65.55
5.8	58.00	58.97	59.93	60.90	61.87	62.83	63.80	64.77	65.73	66.70
5.9	59.00	59.98	60.97	61.95	62.93	63.92	64.90	65.88	66.87	67.85
6	60.00	61.00	62.00	63.00	64.00	65.00	66.00	67.00	68.00	69.00
6.1	61.00	62.02	63.03	64.05	65.07	66.08	67.10	68.12	69.13	70.15
6.2	62.00	63.03	64.07	65.10	66.13	67.17	68.20	69.23	70.27	71.30
6.3	63.00	64.05	65.10	66.15	67.20	68.25	69.30	70.35	71.40	72.45
6.4	64.00	65.07	66.13	67.20	68.27	69.33	70.40	71.47	72.53	73.60
6.5	65.00	66.08	67.17	68.25	69.33	70.42	71.50	72.58	73.67	74.75
6.6	66.00	67.10	68.20	69.30	70.40	71.50	72.60	73.70	74.80	75.90
6.7	67.00	68.12	69.23	70.35	71.47	72.58	73.70	74.82	75.93	77.05
6.8	68.00	69.13	70.27	71.40	72.53	73.67	74.80	75.93	77.07	78.20
6.9	69.00	70.15	71.30	72.45	73.60	74.75	75.90	77.05	78.20	79.35
7	70.00	71.17	72.33	73.50	74.67	75.83	77.00	78.17	79.33	80.50
7.1	71.00	72.18	73.37	74.55	75.73	76.92	78.10	79.28	80.47	81.65
7.2	72.00	73.20	74.40	75.60	76.80	78.00	79.20	80.40	81.60	82.80
7.3	73.00	74.22	75.43	76.65	77.87	79.08	80.30	81.52	82.73	83.95
7.4	74.00	75.23	76.47	77.70	78.93	80.17	81.40	82.63	83.87	85.10
7.5	75.00	76.25	77.50	78.75	80.00	81.25	82.50	83.75	85.00	86.25
7.6	76.00	77.27	78.53	79.80	81.07	82.33	83.60	84.87	86.13	87.40
7.7	77.00	78.28	79.57	80.85	82.13	83.42	84.70	85.98	87.27	88.55
7.8	78.00	79.30	80.60	81.90	83.20	84.50	85.80	87.10	88.40	89.70
7.9	79.00	80.32	81.63	82.95	84.27	85.58	86.90	88.22	89.53	90.85
8	80.00	81.33	82.67	84.00	85.33	86.67	88.00	89.33	90.67	92.00
8.1	81.00	82.35	83.70	85.05	86.40	87.75	89.10	90.45	91.80	93.15
8.2	82.00	83.37	84.73	86.10	87.47	88.83	90.20	91.57	92.93	94.30
8.3	83.00	84.38	85.77	87.15	88.53	89.92	91.30	92.68	94.07	95.45
8.4	84.00	85.40	86.80	88.20	89.60	91.00	92.40	93.80	95.20	96.60
8.5	85.00	86.42	87.83	89.25	90.67	92.08	93.50	94.92	96.33	97.75
8.6	86.00	87.43	88.87	90.30	91.73	93.17	94.60	96.03	97.47	
8.7	87.00	88.45	89.90	91.35	92.80	94.25	95.70	97.15	98.60	
8.8	88.00	89.47	90.93	92.40	93.87	95.33	96.80	98.27		
8.9	89.00	90.48	91.97	93.45	94.93	96.42	97.90			
9	90.00	91.50	93.00	94.50	96.00	97.50				
9.1	91.00	92.52	94.03	95.55	97.07	98.58				
9.2	92.00	93.53	95.07	96.60	98.13					
9.3	93.00	94.55	96.10	97.65						
9.4	94.00	95.57	97.13	98.70						
9.5	95.00	96.58	98.17							
9.6	96.00	97.60								
9.7	97.00	98.62								
9.8	98.00									
9.9	99.00									

Stroke	7	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9
0.1	1.17	1.18	1.20	1.22	1.23	1.25	1.27	1.28	1.30	1.32
0.2	2.33	2.37	2.40	2.43	2.47	2.50	2.53	2.57	2.60	2.63
0.3	3.50	3.55	3.60	3.65	3.70	3.75	3.80	3.85	3.90	3.95
0.4	4.67	4.73	4.80	4.87	4.93	5.00	5.07	5.13	5.20	5.27
0.5	5.83	5.92	6.00	6.08	6.17	6.25	6.33	6.42	6.50	6.58
0.6	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90
0.7	8.17	8.28	8.40	8.52	8.63	8.75	8.87	8.98	9.10	9.22
0.8	9.33	9.47	9.60	9.73	9.87	10.00	10.13	10.27	10.40	10.53
0.9	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85
1	11.67	11.83	12.00	12.17	12.33	12.50	12.67	12.83	13.00	13.17
1.1	12.83	13.02	13.20	13.38	13.57	13.75	13.93	14.12	14.30	14.48
1.2	14.00	14.20	14.40	14.60	14.80	15.00	15.20	15.40	15.60	15.80
1.3	15.17	15.38	15.60	15.82	16.03	16.25	16.47	16.68	16.90	17.12
1.4	16.33	16.57	16.80	17.03	17.27	17.50	17.73	17.97	18.20	18.43
1.5	17.50	17.75	18.00	18.25	18.50	18.75	19.00	19.25	19.50	19.75
1.6	18.67	18.93	19.20	19.47	19.73	20.00	20.27	20.53	20.80	21.07
1.7	19.83	20.12	20.40	20.68	20.97	21.25	21.53	21.82	22.10	22.38
1.8	21.00	21.30	21.60	21.90	22.20	22.50	22.80	23.10	23.40	23.70
1.9	22.17	22.48	22.80	23.12	23.43	23.75	24.07	24.38	24.70	25.02
2	23.33	23.67	24.00	24.33	24.67	25.00	25.33	25.67	26.00	26.33
2.1	24.50	24.85	25.20	25.55	25.90	26.25	26.60	26.95	27.30	27.65
2.2	25.67	26.03	26.40	26.77	27.13	27.50	27.87	28.23	28.60	28.97
2.3	26.83	27.22	27.60	27.98	28.37	28.75	29.13	29.52	29.90	30.28
2.4	28.00	28.40	28.80	29.20	29.60	30.00	30.40	30.80	31.20	31.60
2.5	29.17	29.58	30.00	30.42	30.83	31.25	31.67	32.08	32.50	32.92
2.6	30.33	30.77	31.20	31.63	32.07	32.50	32.93	33.37	33.80	34.23
2.7	31.50	31.95	32.40	32.85	33.30	33.75	34.20	34.65	35.10	35.55
2.8	32.67	33.13	33.60	34.07	34.53	35.00	35.47	35.93	36.40	36.87
2.9	33.83	34.32	34.80	35.28	35.77	36.25	36.73	37.22	37.70	38.18
3	35.00	35.50	36.00	36.50	37.00	37.50	38.00	38.50	39.00	39.50
3.1	36.17	36.68	37.20	37.72	38.23	38.75	39.27	39.78	40.30	40.82
3.2	37.33	37.87	38.40	38.93	39.47	40.00	40.53	41.07	41.60	42.13
3.3	38.50	39.05	39.60	40.15	40.70	41.25	41.80	42.35	42.90	43.45
3.4	39.67	40.23	40.80	41.37	41.93	42.50	43.07	43.63	44.20	44.77
3.5	40.83	41.42	42.00	42.58	43.17	43.75	44.33	44.92	45.50	46.08
3.6	42.00	42.60	43.20	43.80	44.40	45.00	45.60	46.20	46.80	47.40
3.7	43.17	43.78	44.40	45.02	45.63	46.25	46.87	47.48	48.10	48.72
3.8	44.33	44.97	45.60	46.23	46.87	47.50	48.13	48.77	49.40	50.03
3.9	45.50	46.15	46.80	47.45	48.10	48.75	49.40	50.05	50.70	51.35
4	46.67	47.33	48.00	48.67	49.33	50.00	50.67	51.33	52.00	52.67
4.1	47.83	48.52	49.20	49.88	50.57	51.25	51.93	52.62	53.30	53.98
4.2	49.00	49.70	50.40	51.10	51.80	52.50	53.20	53.90	54.60	55.30
4.3	50.17	50.88	51.60	52.32	53.03	53.75	54.47	55.18	55.90	56.62
4.4	51.33	52.07	52.80	53.53	54.27	55.00	55.73	56.47	57.20	57.93
4.5	52.50	53.25	54.00	54.75	55.50	56.25	57.00	57.75	58.50	59.25
4.6	53.67	54.43	55.20	55.97	56.73	57.50	58.27	59.03	59.80	60.57
4.7	54.83	55.62	56.40	57.18	57.97	58.75	59.53	60.32	61.10	61.88
4.8	56.00	56.80	57.60	58.40	59.20	60.00	60.80	61.60	62.40	63.20
4.9	57.17	57.98	58.80	59.62	60.43	61.25	62.07	62.88	63.70	64.52
5	58.33	59.17	60.00	60.83	61.67	62.50	63.33	64.17	65.00	65.83
5.1	59.50	60.35	61.20	62.05	62.90	63.75	64.60	65.45	66.30	67.15
5.2	60.67	61.53	62.40	63.27	64.13	65.00	65.87	66.73	67.60	68.47
5.3	61.83	62.72	63.60	64.48	65.37	66.25	67.13	68.02	68.90	69.78
5.4	63.00	63.90	64.80	65.70	66.60	67.50	68.40	69.30	70.20	71.10
5.5	64.17	65.08	66.00	66.92	67.83	68.75	69.67	70.58	71.50	72.42
5.6	65.33	66.27	67.20	68.13	69.07	70.00	70.93	71.87	72.80	73.73
5.7	66.50	67.45	68.40	69.35	70.30	71.25	72.20	73.15	74.10	75.05
5.8	67.67	68.63	69.60	70.57	71.53	72.50	73.47	74.43	75.40	76.37
5.9	68.83	69.82	70.80	71.78	72.77	73.75	74.73	75.72	76.70	77.68
6	70.00	71.00	72.00	73.00	74.00	75.00	76.00	77.00	78.00	79.00
6.1	71.17	72.18	73.20	74.22	75.23	76.25	77.27	78.28	79.30	80.32
6.2	72.33	73.37	74.40	75.43	76.47	77.50	78.53	79.57	80.60	81.63
6.3	73.50	74.55	75.60	76.65	77.70	78.75	79.80	80.85	81.90	82.95
6.4	74.67	75.73	76.80	77.87	78.93	80.00	81.07	82.13	83.20	84.27
6.5	75.83	76.92	78.00	79.08	80.17	81.25	82.33	83.42	84.50	85.58
6.6	77.00	78.10	79.20	80.30	81.40	82.50	83.60	84.70	85.80	86.90
6.7	78.17	79.28	80.40	81.52	82.63	83.75	84.87	85.98	87.10	88.22
6.8	79.33	80.47	81.60	82.73	83.87	85.00	86.13	87.27	88.40	89.53
6.9	80.50	81.65	82.80	83.95	85.10	86.25	87.40	88.55	89.70	90.85
7	81.67	82.83	84.00	85.17	86.33	87.50	88.67	89.83	91.00	92.17
7.1	82.83	84.02	85.20	86.38	87.57	88.75	89.93	91.12	92.30	93.48
7.2	84.00	85.20	86.40	87.60	88.80	90.00	91.20	92.40	93.60	94.80
7.3	85.17	86.38	87.60	88.82	90.03	91.25	92.47	93.68	94.90	96.12
7.4	86.33	87.57	88.80	90.03	91.27	92.50	93.73	94.97	96.20	97.43
7.5	87.50	88.75	90.00	91.25	92.50	93.75	95.00	96.25	97.50	
7.6	88.67	89.93	91.20	92.47	93.73	95.00	96.27	97.53		
7.7	89.83	91.12	92.40	93.68	94.97	96.25	97.53			
7.8	91.00	92.30	93.60	94.90	96.20	97.50				
7.9	92.17	93.48	94.80	96.12	97.43	98.75				
8	93.33	94.67	96.00	97.33	98.67					
8.1	94.50	95.85	97.20	98.55						
8.2	95.67	97.03	98.40							
8.3	96.83	98.22								
8.4	98.00									

Stroke	8	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9
0.1	1.33	1.35	1.37	1.38	1.40	1.42	1.43	1.45	1.47	1.48
0.2	2.67	2.70	2.73	2.77	2.80	2.83	2.87	2.90	2.93	2.97
0.3	4.00	4.05	4.10	4.15	4.20	4.25	4.30	4.35	4.40	4.45
0.4	5.33	5.40	5.47	5.53	5.60	5.67	5.73	5.80	5.87	5.93
0.5	6.67	6.75	6.83	6.92	7.00	7.08	7.17	7.25	7.33	7.42
0.6	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90
0.7	9.33	9.45	9.57	9.68	9.80	9.92	10.03	10.15	10.27	10.38
0.8	10.67	10.80	10.93	11.07	11.20	11.33	11.47	11.60	11.73	11.87
0.9	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35
1	13.33	13.50	13.67	13.83	14.00	14.17	14.33	14.50	14.67	14.83
1.1	14.67	14.85	15.03	15.22	15.40	15.58	15.77	15.95	16.13	16.32
1.2	16.00	16.20	16.40	16.60	16.80	17.00	17.20	17.40	17.60	17.80
1.3	17.33	17.55	17.77	17.98	18.20	18.42	18.63	18.85	19.07	19.28
1.4	18.67	18.90	19.13	19.37	19.60	19.83	20.07	20.30	20.53	20.77
1.5	20.00	20.25	20.50	20.75	21.00	21.25	21.50	21.75	22.00	22.25
1.6	21.33	21.60	21.87	22.13	22.40	22.67	22.93	23.20	23.47	23.73
1.7	22.67	22.95	23.23	23.52	23.80	24.08	24.37	24.65	24.93	25.22
1.8	24.00	24.30	24.60	24.90	25.20	25.50	25.80	26.10	26.40	26.70
1.9	25.33	25.65	25.97	26.28	26.60	26.92	27.23	27.55	27.87	28.18
2	26.67	27.00	27.33	27.67	28.00	28.33	28.67	29.00	29.33	29.67
2.1	28.00	28.35	28.70	29.05	29.40	29.75	30.10	30.45	30.80	31.15
2.2	29.33	29.70	30.07	30.43	30.80	31.17	31.53	31.90	32.27	32.63
2.3	30.67	31.05	31.43	31.82	32.20	32.58	32.97	33.35	33.73	34.12
2.4	32.00	32.40	32.80	33.20	33.60	34.00	34.40	34.80	35.20	35.60
2.5	33.33	33.75	34.17	34.58	35.00	35.42	35.83	36.25	36.67	37.08
2.6	34.67	35.10	35.53	35.97	36.40	36.83	37.27	37.70	38.13	38.57
2.7	36.00	36.45	36.90	37.35	37.80	38.25	38.70	39.15	39.60	40.05
2.8	37.33	37.80	38.27	38.73	39.20	39.67	40.13	40.60	41.07	41.53
2.9	38.67	39.15	39.63	40.12	40.60	41.08	41.57	42.05	42.53	43.02
3	40.00	40.50	41.00	41.50	42.00	42.50	43.00	43.50	44.00	44.50
3.1	41.33	41.85	42.37	42.88	43.40	43.92	44.43	44.95	45.47	45.98
3.2	42.67	43.20	43.73	44.27	44.80	45.33	45.87	46.40	46.93	47.47
3.3	44.00	44.55	45.10	45.65	46.20	46.75	47.30	47.85	48.40	48.95
3.4	45.33	45.90	46.47	47.03	47.60	48.17	48.73	49.30	49.87	50.43
3.5	46.67	47.25	47.83	48.42	49.00	49.58	50.17	50.75	51.33	51.92
3.6	48.00	48.60	49.20	49.80	50.40	51.00	51.60	52.20	52.80	53.40
3.7	49.33	49.95	50.57	51.18	51.80	52.42	53.03	53.65	54.27	54.88
3.8	50.67	51.30	51.93	52.57	53.20	53.83	54.47	55.10	55.73	56.37
3.9	52.00	52.65	53.30	53.95	54.60	55.25	55.90	56.55	57.20	57.85
4	53.33	54.00	54.67	55.33	56.00	56.67	57.33	58.00	58.67	59.33
4.1	54.67	55.35	56.03	56.72	57.40	58.08	58.77	59.45	60.13	60.82
4.2	56.00	56.70	57.40	58.10	58.80	59.50	60.20	60.90	61.60	62.30
4.3	57.33	58.05	58.77	59.48	60.20	60.92	61.63	62.35	63.07	63.78
4.4	58.67	59.40	60.13	60.87	61.60	62.33	63.07	63.80	64.53	65.27
4.5	60.00	60.75	61.50	62.25	63.00	63.75	64.50	65.25	66.00	66.75
4.6	61.33	62.10	62.87	63.63	64.40	65.17	65.93	66.70	67.47	68.23
4.7	62.67	63.45	64.23	65.02	65.80	66.58	67.37	68.15	68.93	69.72
4.8	64.00	64.80	65.60	66.40	67.20	68.00	68.80	69.60	70.40	71.20
4.9	65.33	66.15	66.97	67.78	68.60	69.42	70.23	71.05	71.87	72.68
5	66.67	67.50	68.33	69.17	70.00	70.83	71.67	72.50	73.33	74.17
5.1	68.00	68.85	69.70	70.55	71.40	72.25	73.10	73.95	74.80	75.65
5.2	69.33	70.20	71.07	71.93	72.80	73.67	74.53	75.40	76.27	77.13
5.3	70.67	71.55	72.43	73.32	74.20	75.08	75.97	76.85	77.73	78.62
5.4	72.00	72.90	73.80	74.70	75.60	76.50	77.40	78.30	79.20	80.10
5.5	73.33	74.25	75.17	76.08	77.00	77.92	78.83	79.75	80.67	81.58
5.6	74.67	75.60	76.53	77.47	78.40	79.33	80.27	81.20	82.13	83.07
5.7	76.00	76.95	77.90	78.85	79.80	80.75	81.70	82.65	83.60	84.55
5.8	77.33	78.30	79.27	80.23	81.20	82.17	83.13	84.10	85.07	86.03
5.9	78.67	79.65	80.63	81.62	82.60	83.58	84.57	85.55	86.53	87.52
6	80.00	81.00	82.00	83.00	84.00	85.00	86.00	87.00	88.00	89.00
6.1	81.33	82.35	83.37	84.38	85.40	86.42	87.43	88.45	89.47	90.48
6.2	82.67	83.70	84.73	85.77	86.80	87.83	88.87	89.90	90.93	91.97
6.3	84.00	85.05	86.10	87.15	88.20	89.25	90.30	91.35	92.40	93.45
6.4	85.33	86.40	87.47	88.53	89.60	90.67	91.73	92.80	93.87	94.93
6.5	86.67	87.75	88.83	89.92	91.00	92.08	93.17	94.25	95.33	96.42
6.6	88.00	89.10	90.20	91.30	92.40	93.50	94.60	95.70	96.80	97.90
6.7	89.33	90.45	91.57	92.68	93.80	94.92	96.03	97.15	98.27	
6.8	90.67	91.80	92.93	94.07	95.20	96.33	97.47			
6.9	92.00	93.15	94.30	95.45	96.60	97.75				
7	93.33	94.50	95.67	96.83	98.00					
7.1	94.67	95.85	97.03	98.22						
7.2	96.00	97.20	98.40							
7.3	97.33	98.55								
7.4	98.67									

Stroke	9	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9
0.1	1.50	1.52	1.53	1.55	1.57	1.58	1.60	1.62	1.63	1.65
0.2	3.00	3.03	3.07	3.10	3.13	3.17	3.20	3.23	3.27	3.30
0.3	4.50	4.55	4.60	4.65	4.70	4.75	4.80	4.85	4.90	4.95
0.4	6.00	6.07	6.13	6.20	6.27	6.33	6.40	6.47	6.53	6.60
0.5	7.50	7.58	7.67	7.75	7.83	7.92	8.00	8.08	8.17	8.25
0.6	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90
0.7	10.50	10.62	10.73	10.85	10.97	11.08	11.20	11.32	11.43	11.55
0.8	12.00	12.13	12.27	12.40	12.53	12.67	12.80	12.93	13.07	13.20
0.9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85
1	15.00	15.17	15.33	15.50	15.67	15.83	16.00	16.17	16.33	16.50
1.1	16.50	16.68	16.87	17.05	17.23	17.42	17.60	17.78	17.97	18.15
1.2	18.00	18.20	18.40	18.60	18.80	19.00	19.20	19.40	19.60	19.80
1.3	19.50	19.72	19.93	20.15	20.37	20.58	20.80	21.02	21.23	21.45
1.4	21.00	21.23	21.47	21.70	21.93	22.17	22.40	22.63	22.87	23.10
1.5	22.50	22.75	23.00	23.25	23.50	23.75	24.00	24.25	24.50	24.75
1.6	24.00	24.27	24.53	24.80	25.07	25.33	25.60	25.87	26.13	26.40
1.7	25.50	25.78	26.07	26.35	26.63	26.92	27.20	27.48	27.77	28.05
1.8	27.00	27.30	27.60	27.90	28.20	28.50	28.80	29.10	29.40	29.70
1.9	28.50	28.82	29.13	29.45	29.77	30.08	30.40	30.72	31.03	31.35
2	30.00	30.33	30.67	31.00	31.33	31.67	32.00	32.33	32.67	33.00
2.1	31.50	31.85	32.20	32.55	32.90	33.25	33.60	33.95	34.30	34.65
2.2	33.00	33.37	33.73	34.10	34.47	34.83	35.20	35.57	35.93	36.30
2.3	34.50	34.88	35.27	35.65	36.03	36.42	36.80	37.18	37.57	37.95
2.4	36.00	36.40	36.80	37.20	37.60	38.00	38.40	38.80	39.20	39.60
2.5	37.50	37.92	38.33	38.75	39.17	39.58	40.00	40.42	40.83	41.25
2.6	39.00	39.43	39.87	40.30	40.73	41.17	41.60	42.03	42.47	42.90
2.7	40.50	40.95	41.40	41.85	42.30	42.75	43.20	43.65	44.10	44.55
2.8	42.00	42.47	42.93	43.40	43.87	44.33	44.80	45.27	45.73	46.20
2.9	43.50	43.98	44.47	44.95	45.43	45.92	46.40	46.88	47.37	47.85
3	45.00	45.50	46.00	46.50	47.00	47.50	48.00	48.50	49.00	49.50
3.1	46.50	47.02	47.53	48.05	48.57	49.08	49.60	50.12	50.63	51.15
3.2	48.00	48.53	49.07	49.60	50.13	50.67	51.20	51.73	52.27	52.80
3.3	49.50	50.05	50.60	51.15	51.70	52.25	52.80	53.35	53.90	54.45
3.4	51.00	51.57	52.13	52.70	53.27	53.83	54.40	54.97	55.53	56.10
3.5	52.50	53.08	53.67	54.25	54.83	55.42	56.00	56.58	57.17	57.75
3.6	54.00	54.60	55.20	55.80	56.40	57.00	57.60	58.20	58.80	59.40
3.7	55.50	56.12	56.73	57.35	57.97	58.58	59.20	59.82	60.43	61.05
3.8	57.00	57.63	58.27	58.90	59.53	60.17	60.80	61.43	62.07	62.70
3.9	58.50	59.15	59.80	60.45	61.10	61.75	62.40	63.05	63.70	64.35
4	60.00	60.67	61.33	62.00	62.67	63.33	64.00	64.67	65.33	66.00
4.1	61.50	62.18	62.87	63.55	64.23	64.92	65.60	66.28	66.97	67.65
4.2	63.00	63.70	64.40	65.10	65.80	66.50	67.20	67.90	68.60	69.30
4.3	64.50	65.22	65.93	66.65	67.37	68.08	68.80	69.52	70.23	70.95
4.4	66.00	66.73	67.47	68.20	68.93	69.67	70.40	71.13	71.87	72.60
4.5	67.50	68.25	69.00	69.75	70.50	71.25	72.00	72.75	73.50	74.25
4.6	69.00	69.77	70.53	71.30	72.07	72.83	73.60	74.37	75.13	75.90
4.7	70.50	71.28	72.07	72.85	73.63	74.42	75.20	75.98	76.77	77.55
4.8	72.00	72.80	73.60	74.40	75.20	76.00	76.80	77.60	78.40	79.20
4.9	73.50	74.32	75.13	75.95	76.77	77.58	78.40	79.22	80.03	80.85
5	75.00	75.83	76.67	77.50	78.33	79.17	80.00	80.83	81.67	82.50
5.1	76.50	77.35	78.20	79.05	79.90	80.75	81.60	82.45	83.30	84.15
5.2	78.00	78.87	79.73	80.60	81.47	82.33	83.20	84.07	84.93	85.80
5.3	79.50	80.38	81.27	82.15	83.03	83.92	84.80	85.68	86.57	87.45
5.4	81.00	81.90	82.80	83.70	84.60	85.50	86.40	87.30	88.20	89.10
5.5	82.50	83.42	84.33	85.25	86.17	87.08	88.00	88.92	89.83	90.75
5.6	84.00	84.93	85.87	86.80	87.73	88.67	89.60	90.53	91.47	92.40
5.7	85.50	86.45	87.40	88.35	89.30	90.25	91.20	92.15	93.10	94.05
5.8	87.00	87.97	88.93	89.90	90.87	91.83	92.80	93.77	94.73	95.70
5.9	88.50	89.48	90.47	91.45	92.43	93.42	94.40	95.38	96.37	97.35
6	90.00	91.00	92.00	93.00	94.00	95.00	96.00	97.00	98.00	
6.1	91.50	92.52	93.53	94.55	95.57	96.58	97.60			
6.2	93.00	94.03	95.07	96.10	97.13	98.17				
6.3	94.50	95.55	96.60	97.65						
6.4	96.00	97.07	98.13							
6.5	97.50									