

APÉNDICE D

Datos obtenidos respecto al tono

□ Temperatura de 70°C

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
70	1:0	0	50.87	52.35	11.66	12.55662	0
70	1:0	0	50.85	52.15	11.64	12.58231	0
70	1:0	0	50.7	52.2	11.59	12.51835	0
70	1:0	1	51.94	42.28	13.68	17.92936	0.35619
70	1:0	1	51.53	41.25	13.89	18.60978	0.3914
70	1:0	1	50.89	41.25	13.78	18.47244	0.38908
70	1:0	2	50.14	31.61	15.73	26.45619	0.74524
70	1:0	2	48.82	30.61	15.49	26.84141	0.75765
70	1:0	2	49.1	30.98	15.41	26.44656	0.74793
70	1:0	3	46.96	24.16	16.79	34.79738	1.01929
70	1:0	3	46.55	23.97	16.64	34.76842	1.01642
70	1:0	3	46.46	24.06	16.64	34.6679	1.01862
70	1:0	4	43.7	18.94	17.15	42.16056	1.21124
70	1:0	4	43.4	18.78	17.04	42.21897	1.21058
70	1:0	4	43.17	18.88	16.95	41.91672	1.20849
70	1:0	6	39.39	11.95	17.78	56.09481	1.4968
70	1:0	6	40.17	11.61	17.99	57.16348	1.51362
70	1:0	6	39.84	11.22	17.99	58.04904	1.53409
70	1:0	7	36.62	10.08	15.48	56.92932	1.51156
70	1:0	7	36.99	9.96	17.51	60.36801	1.56817
70	1:0	7	36.07	9.67	18.4	62.27612	1.60438
70	1:0	8	35.76	9.35	17.56	61.96648	1.59635
70	1:0	8	38.93	9.03	18.88	64.43896	1.63343
70	1:0	8	39.5	8.9	19.34	65.28877	1.65162
70	1:0	9	39.51	8.91	19.86	65.83706	1.65694
70	1:0	9	39.53	8.9	19.87	65.87185	1.65542
70	1:0	9	39.48	8.91	19.86	65.83706	1.65999

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
70	1:0.25	0	50.07	51.67	11.39	12.43132	0
70	1:0.25	0	50.05	52.03	11.41	12.36897	0
70	1:0.25	0	50.17	51.61	11.47	12.52998	0
70	1:0.25	1	52.66	41.6	13.56	18.05398	0.37315
70	1:0.25	1	51.45	41.05	13.81	18.59392	0.40764
70	1:0.25	1	51.16	40.03	13.8	19.02119	0.41743
70	1:0.25	2	50.34	30.98	15.66	26.81602	0.76878
70	1:0.25	2	50.09	30.99	15.6	26.72014	0.77023
70	1:0.25	2	50.02	30.99	15.6	26.72014	0.75729
70	1:0.25	3	47.33	23.88	16.67	34.91788	1.03278
70	1:0.25	3	46.7	22.75	16.75	36.36287	1.07836
70	1:0.25	3	46.41	22.69	16.68	36.32056	1.06426
70	1:0.25	4	44	18.57	16.88	42.27062	1.22387
70	1:0.25	4	43.7	18.67	16.77	41.93121	1.22084
70	1:0.25	4	44.1	18.59	16.81	42.12145	1.21243
70	1:0.25	6	40.64	12.09	17.92	55.99383	1.50502
70	1:0.25	6	38.68	11.68	16.89	55.33485	1.49821
70	1:0.25	6	40.32	11.07	18.29	58.81563	1.54628
70	1:0.25	7	38.98	10.51	18.04	59.77517	1.57037
70	1:0.25	7	37.64	10.14	17.28	59.59535	1.57239
70	1:0.25	7	38.71	9.71	18.78	62.65925	1.60959
70	1:0.25	8	37.5	9.49	18.01	62.21393	1.61036
70	1:0.25	8	40.4	9.27	19.02	64.01624	1.64395
70	1:0.25	8	40.35	8.76	19.64	65.96177	1.66095
70	1:0.25	9	39.42	8.82	19.86	66.05357	1.67025
70	1:0.25	9	39.43	8.86	19.88	65.97871	1.67414
70	1:0.25	9	39.34	8.87	19.86	65.9332	1.66052

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
70	1:0.50	0	50.44	52.35	10.8	11.65679	0
70	1:0.50	0	50.56	52.38	10.78	11.62931	0
70	1:0.50	0	51.09	51.76	10.99	11.98737	0
70	1:0.50	1	52.56	41.64	13.13	17.5012	0.40638
70	1:0.50	1	51.92	41.41	13.31	17.81844	0.42671
70	1:0.50	1	51.69	40.08	13.67	18.83286	0.45175
70	1:0.50	2	49.54	30.97	15.33	26.33519	0.81502
70	1:0.50	2	49.69	31.05	15.08	25.90438	0.80088
70	1:0.50	2	49.66	28.64	15.55	28.49961	0.86604
70	1:0.50	3	46.7	24.16	16.19	33.82667	1.06536
70	1:0.50	3	46.5	24.14	16.17	33.81586	1.0674
70	1:0.50	3	46.44	24.46	16.16	33.45156	1.02625
70	1:0.50	4	44.93	18.99	16.79	41.48149	1.26936
70	1:0.50	4	44.79	18.92	16.74	41.5017	1.27221
70	1:0.50	4	44.71	18.96	16.75	41.45863	1.24084
70	1:0.50	6	42.04	12.09	18.55	56.90562	1.58551
70	1:0.50	6	40.91	12.01	17.66	55.78164	1.56792
70	1:0.50	6	42.37	11.41	18.36	58.14071	1.57901
70	1:0.50	7	39.96	10.41	18.12	60.12249	1.64049
70	1:0.50	7	41.93	9.77	18.98	62.76275	1.68583
70	1:0.50	7	39.27	10.35	18.05	60.16973	1.61332
70	1:0.50	8	39.13	9.44	18.74	63.26399	1.69143
70	1:0.50	8	40.1	9.29	18.73	63.61878	1.69938
70	1:0.50	8	40.99	8.86	19.25	65.28529	1.69491
70	1:0.50	9	39.18	8.78	19.29	65.52696	1.72657
70	1:0.50	9	39.19	8.79	19.28	65.49115	1.72839
70	1:0.50	9	39.17	8.77	19.28	65.54037	1.69881

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	In T/To
70	1	0	51.17	52.23	11.22	12.12397	0
70	1	0	50.99	52.1	11.22	12.15332	0
70	1	0	50.05	52.11	11.16	12.088	0
70	1	1	51.33	41.76	13.72	18.18763	0.40556
70	1	1	51.17	41.07	13.77	18.53534	0.42208
70	1	1	51.73	40.32	13.81	18.90684	0.44731
70	1	2	48.85	30.85	15.44	26.58733	0.78525
70	1	2	48.23	30	15.59	27.4594	0.81511
70	1	2	48.07	29.99	15.55	27.40702	0.81859
70	1	3	46.18	24.16	16.19	33.82667	1.02606
70	1	3	46.5	24.14	16.17	33.81586	1.02333
70	1	3	46.44	24.46	16.16	33.45156	1.01789
70	1	4	43.97	18.44	17.04	42.74035	1.25996
70	1	4	43.4	18.45	16.97	42.60733	1.25442
70	1	4	43.36	18.34	17.03	42.8789	1.26617
70	1	6	40.3	12.2	18.17	56.12115	1.53233
70	1	6	41.91	12.14	18.62	56.89617	1.54363
70	1	6	40.74	11.34	17.91	57.65941	1.56234
70	1	7	39.5	10.62	18.58	60.24848	1.60329
70	1	7	40.75	10.48	18.97	61.08149	1.61461
70	1	7	39.25	9.8	18.14	61.62019	1.62878
70	1	8	39.65	9.76	19.22	63.07834	1.64919
70	1	8	39.71	9.21	18.79	63.88802	1.65953
70	1	8	39.21	8.9	18.11	63.8286	1.66399
70	1	9	42.22	8.92	20.84	66.82796	1.70694
70	1	9	42.23	8.96	20.86	66.75502	1.70343
70	1	9	42.21	8.92	20.87	66.85776	1.71035

□ Temperatura de 60°C.

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
60	1:0	0	50.61	54.09	10.68	11.16931	0
60	1:0	0	50.05	55.67	10.84	11.01869	0
60	1:0	0	49.81	55.67	10.96	11.13764	0
60	1:0	1	51.76	48.09	11.49	13.43759	0.18489
60	1:0	1	51.25	47.2	11.85	14.09335	0.24611
60	1:0	1	51.53	47.08	11.85	14.12784	0.23782
60	1:0	2	53.1	42.54	12.87	16.8326	0.41015
60	1:0	2	53.43	41.83	13.29	17.62581	0.46977
60	1:0	2	53.28	41.81	13.22	17.54655	0.45453
60	1:0	3	52.63	34.3	14.71	23.2127	0.73153
60	1:0	3	52.52	34.86	14.66	22.80867	0.72755
60	1:0	3	52.81	34.84	14.75	22.94605	0.72282
60	1:0	4	50.45	28.82	15.51	28.28771	0.92926
60	1:0	4	50.3	28.75	15.47	28.28412	0.94271
60	1:0	4	50.17	28.82	15.46	28.21058	0.92937
60	1:0	6	48.45	20.67	16.65	38.85197	1.24659
60	1:0	6	48.39	19.94	17.49	41.25502	1.32018
60	1:0	6	49.3	19.61	17.45	41.66435	1.31932
60	1:0	7	45.2	17.21	16.49	43.77606	1.36592
60	1:0	7	44.86	16.21	17.06	46.46351	1.43907
60	1:0	7	44.8	16.42	17.41	46.67622	1.4329
60	1:0	8	44.09	14.92	16.94	48.62783	1.47103
60	1:0	8	44.67	14.51	18.04	51.18945	1.53594
60	1:0	8	45.38	14.19	17.91	51.6104	1.53339
60	1:0	9	45.21	13.57	17.44	52.11365	1.54026
60	1:0	9	44.98	13.35	17.36	52.43938	1.56006
60	1:0	9	45.11	13.57	17.29	51.87352	1.53848
60	1:0	10	44.19	11.97	18.82	57.5426	1.63936
60	1:0	10	43.89	11.94	18.68	57.41384	1.65069
60	1:0	10	43.79	12.01	18.63	57.19178	1.63608
60	1:0	11	43.87	10.11	18.67	61.56399	1.70691
60	1:0	11	43.67	10.18	18.58	61.28162	1.71589
60	1:0	11	43.69	9.98	18.76	61.98778	1.71661
60	1:0	13	42.31	8.61	19.37	66.03477	1.77701
60	1:0	13	42.26	8.69	19.25	65.70422	1.78557
60	1:0	13	42.38	8.75	19.27	65.57845	1.77292
60	1:0	14	39.17	8.13	16.87	64.26963	1.74992
60	1:0	14	38.98	8.23	16.9	64.03474	1.75983
60	1:0	14	39.11	8.15	16.76	64.06742	1.74961
60	1:0	15	35.5	7.65	16.13	64.62635	1.75545
60	1:0	15	35.02	7.52	15.92	64.71574	1.77041
60	1:0	15	34.93	7.43	15.89	64.93969	1.76313

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
60	1:0.25	0	52.22	55.27	10.46	10.71664	0
60	1:0.25	0	51.16	54.98	10.38	10.69137	0
60	1:0.25	0	51.12	55.13	10.39	10.67298	0
60	1:0.25	1	53.88	48.87	11.74	13.50815	0.2315
60	1:0.25	1	53.3	49.68	11.47	13.00051	0.19555
60	1:0.25	1	52.79	49.56	11.37	12.92114	0.19115
60	1:0.25	2	54.6	41.67	13.35	17.76413	0.50538
60	1:0.25	2	53.35	42.53	13.04	17.04591	0.46647
60	1:0.25	2	53.76	43	12.97	16.78478	0.45276
60	1:0.25	3	52.28	34.43	15.23	23.86205	0.80049
60	1:0.25	3	52.04	35.26	14.66	22.57601	0.74745
60	1:0.25	3	51.88	35.27	14.6	22.48709	0.74523
60	1:0.25	4	51.07	27.95	16.35	30.32649	1.04022
60	1:0.25	4	50.86	27.92	16.29	30.26154	1.04044
60	1:0.25	4	50.83	27.9	16.31	30.31004	1.04376
60	1:0.25	6	46.66	18.15	18.02	44.79407	1.43028
60	1:0.25	6	46.87	19.29	17.43	42.10024	1.37062
60	1:0.25	6	46.97	19.6	17.17	41.21902	1.35118
60	1:0.25	7	43.75	15.04	18.2	50.43057	1.5488
60	1:0.25	7	45.71	16.36	17.96	47.6692	1.49485
60	1:0.25	7	45.9	16.67	17.76	46.81329	1.47845
60	1:0.25	8	41.31	13.09	18.48	54.68879	1.62986
60	1:0.25	8	44.37	14.52	18.03	51.15466	1.56542
60	1:0.25	8	44.18	14.97	17.98	50.21951	1.54869
60	1:0.25	9	41.2	11.93	18.47	57.14109	1.67373
60	1:0.25	9	41.17	11.95	18.43	57.04065	1.67433
60	1:0.25	9	41.21	11.89	18.47	57.22873	1.67934
60	1:0.25	10	42.67	12.01	18.12	56.46344	1.6618
60	1:0.25	10	42.47	11.89	18.07	56.65522	1.66755
60	1:0.25	10	42.38	11.92	17.99	56.47193	1.66603
60	1:0.25	11	40.05	10.67	18.97	60.64368	1.73322
60	1:0.25	11	40.14	10.78	18.67	59.998	1.72487
60	1:0.25	11	40.36	10.54	18.27	60.01927	1.72695
60	1:0.25	13	39.39	8.92	19.65	65.58461	1.81154
60	1:0.25	13	39.37	8.97	19.61	65.41971	1.81139
60	1:0.25	13	39.31	8.98	19.74	65.53855	1.81492
60	1:0.25	14	39.21	9.05	18.08	63.4096	1.77782
60	1:0.25	14	39.11	9.15	18.19	63.29652	1.77839
60	1:0.25	14	39.46	9.46	18.57	63.00462	1.77549
60	1:0.25	15	38.45	8.73	19.95	66.3661	1.82339
60	1:0.25	15	38.01	8.67	19.79	66.34177	1.82538
60	1:0.25	15	39.32	8.46	18.9	65.8858	1.82021

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
60	1:0.50	0	50.59	54.77	10.54	10.8929	0
60	1:0.50	0	50.68	54.84	10.56	10.89948	0
60	1:0.50	0	51.37	55.13	10.63	10.91366	0
60	1:0.50	1	52.68	50.13	11.55	12.97458	0.17488
60	1:0.50	1	52.3	49.97	11.46	12.91671	0.16981
60	1:0.50	1	52.26	49.06	11.64	13.34723	0.20129
60	1:0.50	2	52.97	44.43	12.72	15.97605	0.38298
60	1:0.50	2	52.96	44.05	12.74	16.13076	0.39201
60	1:0.50	2	52.84	43.96	12.77	16.19812	0.39488
60	1:0.50	3	52.41	38.32	13.93	19.9771	0.60648
60	1:0.50	3	52.08	37.7	13.58	19.80964	0.59745
60	1:0.50	3	51.97	37.74	14.04	20.40616	0.62582
60	1:0.50	4	50.31	30.17	15.57	27.29715	0.91867
60	1:0.50	4	50.16	30.17	15.49	27.17705	0.91366
60	1:0.50	4	50.11	30.14	15.52	27.24531	0.91487
60	1:0.50	6	47.89	22.69	16.23	35.57588	1.18356
60	1:0.50	6	47.75	22.71	16.34	35.73527	1.18742
60	1:0.50	6	47.51	19.65	16.88	40.66367	1.31532
60	1:0.50	7	46.86	19.54	16.89	40.8395	1.32154
60	1:0.50	7	46.4	19.55	16.82	40.70732	1.31769
60	1:0.50	7	46.2	16.79	17.38	45.98921	1.43839
60	1:0.50	8	45.54	17.01	17.14	45.21811	1.42339
60	1:0.50	8	45.52	16.89	17.31	45.7036	1.43346
60	1:0.50	8	45.82	14.64	17.99	50.86181	1.5391
60	1:0.50	9	44.5	14.94	17.06	48.79031	1.49942
60	1:0.50	9	44.35	14.98	17.02	48.64767	1.49589
60	1:0.50	9	44.23	14.87	17.08	48.95688	1.50092
60	1:0.50	10	43.63	13.65	17.41	51.90241	1.56125
60	1:0.50	10	43.39	13.66	17.36	51.80198	1.55871
60	1:0.50	10	43.3	13.61	17.32	51.83985	1.55814
60	1:0.50	11	41.97	10.11	17.23	59.59698	1.69949
60	1:0.50	11	41.57	10.34	17.86	59.93142	1.70449
60	1:0.50	11	41.96	10.38	17.54	59.38337	1.694
60	1:0.50	13	39.69	9.53	17.32	61.17905	1.72569
60	1:0.50	13	39.58	9.35	17.48	61.85781	1.73612
60	1:0.50	13	40.19	9.27	17.17	61.6356	1.73122
60	1:0.50	14	41.05	9.58	18.28	62.34231	1.74453
60	1:0.50	14	41.89	9.57	17.69	61.58734	1.73174
60	1:0.50	14	41.38	9.79	18.09	61.5785	1.7303
60	1:0.50	15	39.14	9.07	17.78	62.97279	1.75459
60	1:0.50	15	38.98	8.94	17.79	63.31912	1.75947
60	1:0.50	15	39.32	9.05	17.7	62.91937	1.75184

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
60	1	0	50.34	55.08	10.34	10.63222	0
60	1	0	50.32	54.77	10.37	10.72131	0
60	1	0	50.85	54.73	10.35	10.70875	0
60	1	1	52.21	48.54	11.39	13.20565	0.21676
60	1	1	51.92	48.91	11.36	13.07587	0.19853
60	1	1	51.63	48.87	11.46	13.19738	0.20896
60	1	2	52.17	42.76	12.76	16.61562	0.44645
60	1	2	53	42.88	12.71	16.51028	0.43175
60	1	2	52.82	43.27	12.55	16.17424	0.41236
60	1	3	51.85	36.36	14.15	21.26419	0.69314
60	1	3	51.74	36.4	14.12	21.20188	0.68186
60	1	3	52.01	36.25	14.13	21.29549	0.68743
60	1	4	50.39	30.42	15.07	26.35371	0.90772
60	1	4	50.31	30.38	15.07	26.38371	0.90051
60	1	4	50.22	30.53	14.96	26.10531	0.89108
60	1	6	46.87	20.21	16.53	39.28014	1.30683
60	1	6	48.82	21.94	16.47	36.89496	1.23584
60	1	6	47.2	20.84	16.51	38.3872	1.27666
60	1	7	46.3	17.39	17.26	44.78504	1.43799
60	1	7	47.54	18.74	16.94	42.11197	1.3681
60	1	7	46.37	17.95	17.05	43.527	1.40232
60	1	8	44.84	14.69	17.55	50.06942	1.54952
60	1	8	46.64	16.16	17.36	47.05029	1.47898
60	1	8	45.15	15.47	17.44	48.42565	1.50897
60	1	9	44.66	13.19	17.79	53.44574	1.61478
60	1	9	44.58	13.56	17.98	52.97745	1.59763
60	1	9	44.24	13.21	17.67	53.2184	1.60334
60	1	10	46.19	13.21	17.98	53.69508	1.61943
60	1	10	45.96	13.32	17.83	53.23823	1.60254
60	1	10	45.89	13.28	17.86	53.36695	1.60613
60	1	11	44.23	10.23	18.39	60.91366	1.74557
60	1	11	44.38	10.39	18.29	60.40039	1.72876
60	1	11	44.29	10.28	18.28	60.6482	1.73403
60	1	13	43.57	8.88	19.68	65.71417	1.82143
60	1	13	43.89	8.57	19.47	66.24262	1.82109
60	1	13	43.94	8.39	19.39	66.602	1.82767
60	1	14	45.16	9.18	19.27	64.52742	1.8032
60	1	14	45.29	9.38	19.2	63.96256	1.78606
60	1	14	45.58	9.48	19.54	64.11926	1.78968
60	1	15	44.16	8.67	19.22	65.72022	1.82152
60	1	15	43.99	8.71	19.15	65.54252	1.81047
60	1	15	43.97	8.91	19.56	65.50972	1.81114

□ Temperatura de 50°C.

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
50	1:0	0	50.07	54.82	10.72	11.06451	0
50	1:0	0	49.91	54.9	10.7	11.02868	0
50	1:0	0	50.26	54.71	10.72	11.08621	0
50	1:0	1	51.51	51.76	10.92	11.9132	0.0739
50	1:0	1	51.5	51.99	10.9	11.84088	0.07106
50	1:0	1	51.63	51.2	10.94	12.06113	0.08429
50	1:0	2	51.69	48.44	11.14	12.95142	0.15746
50	1:0	2	51.48	48.41	11.3	13.13889	0.17508
50	1:0	2	52.03	48.45	11.38	13.21811	0.17589
50	1:0	3	53.91	46.5	11.95	14.41252	0.26435
50	1:0	3	54.11	47.08	11.99	14.28795	0.25892
50	1:0	3	54.05	47.01	11.96	14.27402	0.25274
50	1:0	4	52.41	43.01	12.11	15.72523	0.35152
50	1:0	4	52.36	43.11	12.14	15.7275	0.35491
50	1:0	4	52.35	43.13	12.12	15.69594	0.3477
50	1:0	6	53.62	38.24	12.85	18.57418	0.51803
50	1:0	6	53.81	38.23	12.45	18.03838	0.492
50	1:0	6	53.62	38.52	12.97	18.6088	0.51793
50	1:0	7	53.88	35.69	13.37	20.53669	0.61847
50	1:0	7	53.55	35.5	13.42	20.708	0.63002
50	1:0	7	53.65	35.88	13.45	20.54904	0.61711
50	1:0	8	53.28	35.67	13.82	21.17838	0.64924
50	1:0	8	53.81	33.52	13.67	22.18643	0.69898
50	1:0	8	54.05	33.91	13.91	22.30361	0.69905
50	1:0	9	53.74	31.68	14.32	24.32393	0.78772
50	1:0	9	53.67	31.56	14.56	24.76593	0.80897
50	1:0	9	53.45	31.78	14.86	25.06031	0.81558
50	1:0	10	53.34	30.33	14.05	24.85535	0.80933
50	1:0	10	53.22	30.33	14.03	24.82424	0.81132
50	1:0	10	53.27	30.39	14.03	24.78112	0.80438
50	1:0	11	54.67	27.89	15.01	28.2885	0.93871
50	1:0	11	54.89	26.99	15.45	29.7883	0.99362
50	1:0	11	54.82	26.78	15.67	30.33353	1.00655
50	1:0	13	55.17	23.4	16.44	35.0905	1.15419
50	1:0	13	55.37	23.38	16.07	34.50228	1.14053
50	1:0	13	55.53	23.78	16.78	35.20813	1.15558

50	1:0	14	55.25	22.74	16.05	35.21463	1.15772
50	1:0	14	55.34	22.87	16.47	35.75983	1.17633
50	1:0	14	55.74	22.84	16.83	36.38521	1.18846
50	1:0	15	55.86	21.47	17.01	38.38867	1.24402
50	1:0	15	55.63	22.06	16.42	36.66155	1.20123
50	1:0	15	54.81	21.88	16.39	36.83636	1.20078
50	1:0	16	55.03	20.81	16.24	37.96827	1.23301
50	1:0	16	54.95	20.85	16.23	37.89781	1.23439
50	1:0	16	54.27	20.85	16.21	37.86357	1.22829
50	1:0	17	54.05	19.61	16.32	39.76819	1.27932
50	1:0	17	53.99	19.64	16.3	39.6906	1.28062
50	1:0	17	53.94	18.46	17.1	42.80978	1.35106
50	1:0	18	55.89	16.58	17.38	46.34947	1.43247
50	1:0	18	55.38	16.38	17.23	46.44871	1.43785
50	1:0	18	55.48	16.3	17.39	46.85309	1.44132
50	1:0	20	55	15.67	18.13	49.16271	1.49139
50	1:0	20	55.03	14.83	18.69	51.56897	1.54242
50	1:0	20	57.63	14.56	18.51	51.81134	1.54191
50	1:0	21	57.62	14.89	19.15	52.1333	1.55006
50	1:0	21	57.67	13.93	19.13	53.9388	1.58735
50	1:0	21	57.94	13.94	19.6	54.57863	1.59394
50	1:0	22	58.14	14.18	19.42	53.86401	1.58272
50	1:0	22	58.07	14.15	19.72	54.33883	1.59474
50	1:0	22	57.92	14.18	19.67	54.21236	1.58721

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
50	1:0.25	0	49.82	57.18	12.38	12.21651	0
50	1:0.25	0	49.24	57.31	12.4	12.20873	0
50	1:0.25	0	49.13	56.89	12.49	12.38263	0
50	1:0.25	1	50.86	53.66	12.33	12.9408	0.0576
50	1:0.25	1	50.26	54	12.88	13.41545	0.09426
50	1:0.25	1	50.25	54.11	12.27	12.77635	0.0313
50	1:0.25	2	51.14	50.91	12.58	13.8799	0.12765
50	1:0.25	2	51	51.64	12.63	13.74348	0.11841
50	1:0.25	2	51	51.91	12.63	13.67469	0.09925
50	1:0.25	3	52.68	48.98	13.05	14.91904	0.19985
50	1:0.25	3	51.41	49.13	12.87	14.67925	0.18428
50	1:0.25	3	51.39	49.18	12.81	14.59953	0.16469
50	1:0.25	4	50.77	44.95	13.03	16.16569	0.2801
50	1:0.25	4	50.74	44.94	13.1	16.25139	0.28603
50	1:0.25	4	50.69	43.04	12.99	16.79446	0.30475
50	1:0.25	6	50.85	39.61	13.42	18.71655	0.42662
50	1:0.25	6	50.6	40.19	13.55	18.63146	0.4227
50	1:0.25	6	51.31	41.14	13.48	18.14199	0.38193
50	1:0.25	7	51.37	37.55	13.91	20.32662	0.50914
50	1:0.25	7	50.47	37.87	13.88	20.12875	0.5
50	1:0.25	7	50.85	38.47	13.81	19.74717	0.46672

50	1:0.25	8	51.64	35.44	14.32	22.00182	0.58834
50	1:0.25	8	50.89	39.95	14.26	19.64383	0.47561
50	1:0.25	8	51.69	36.86	14.13	20.97395	0.52699
50	1:0.25	9	51.82	33.79	14.53	23.26813	0.6443
50	1:0.25	9	51.58	33.58	14.67	23.59894	0.65905
50	1:0.25	9	51.66	33.95	14.78	23.52571	0.6418
50	1:0.25	10	51.11	32.38	14.51	24.13792	0.681
50	1:0.25	10	51	32.45	14.51	24.09178	0.67972
50	1:0.25	10	50.91	32.31	14.49	24.15471	0.66818
50	1:0.25	11	53.45	30.89	15.39	26.48338	0.77373
50	1:0.25	11	53.68	29.48	15.38	27.55148	0.81391
50	1:0.25	11	53.39	29.47	15.49	27.72728	0.80612
50	1:0.25	13	56.37	26.38	16.07	31.34867	0.94238
50	1:0.25	13	55.56	26.67	16.3	31.43217	0.94568
50	1:0.25	13	55.38	26.69	15.99	30.92586	0.9153
50	1:0.25	14	54.3	26.88	16.07	30.87277	0.92709
50	1:0.25	14	54.38	26.49	16.39	31.74608	0.95562
50	1:0.25	14	54.39	26.37	16.58	32.15941	0.95441
50	1:0.25	15	53.64	25.03	16.5	33.39323	1.00556
50	1:0.25	15	53.4	25.09	16.43	33.21849	1.00096
50	1:0.25	15	53.36	25.14	16.38	33.08631	0.98282
50	1:0.25	16	53.46	23.95	15.75	33.32972	1.00366
50	1:0.25	16	53.23	23.94	15.74	33.324	1.00413
50	1:0.25	16	53.17	23.97	15.63	33.10697	0.98345
50	1:0.25	17	51.03	21.32	16.51	37.75385	1.1283
50	1:0.25	17	53.96	22.57	17.09	37.133	1.11235
50	1:0.25	17	54.73	23.33	16.75	35.67682	1.05821
50	1:0.25	18	54.37	21.45	17.89	39.82921	1.18181
50	1:0.25	18	54.56	21.34	17.39	39.17665	1.16593
50	1:0.25	18	54.69	21.56	17.23	38.63063	1.13775
50	1:0.25	20	55.7	20.19	18.22	42.06395	1.2364
50	1:0.25	20	54.7	18.59	18.28	44.51827	1.29375
50	1:0.25	20	55.28	17.95	18.81	46.34019	1.31971
50	1:0.25	21	55.13	16.88	19.29	48.81197	1.38519
50	1:0.25	21	54.71	17.33	18.77	47.28427	1.35403
50	1:0.25	21	56.51	19.13	18.34	43.79218	1.26316
50	1:0.25	22	56.32	15.98	19.89	51.22095	1.43336
50	1:0.25	22	55.03	16.41	18.88	49.00369	1.38974
50	1:0.25	22	54.88	16.44	18.83	48.87661	1.373

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
50	1:0.50	0	51.2	55.62	10.35	10.54127	0
50	1:0.50	0	50.91	55.6	10.54	10.73409	0
50	1:0.50	0	50.79	55.51	10.44	10.65144	0
50	1:0.50	1	52.46	52.09	10.66	11.56565	0.09274
50	1:0.50	1	52.2	52.26	10.74	11.61322	0.07872
50	1:0.50	1	52.01	52	10.75	11.68026	0.09221
50	1:0.50	2	53.24	49.06	11.18	12.83758	0.19708
50	1:0.50	2	52.85	49.32	11.19	12.78318	0.1747
50	1:0.50	2	52.85	49.42	11.15	12.71404	0.17701
50	1:0.50	3	54.01	47.15	11.59	13.81014	0.27011
50	1:0.50	3	54.05	47.44	11.52	13.64912	0.24025
50	1:0.50	3	54.44	47.5	11.35	13.43869	0.23244
50	1:0.50	4	54.34	44.69	11.82	14.81485	0.34033
50	1:0.50	4	54.28	44.73	11.83	14.81416	0.32216
50	1:0.50	4	54.27	44.73	11.77	14.7423	0.32503
50	1:0.50	6	53.94	39.47	12.55	17.63874	0.5148
50	1:0.50	6	53.68	39.86	12.57	17.50286	0.48894
50	1:0.50	6	53.7	39.75	12.35	17.25959	0.48267
50	1:0.50	7	53.52	37	12.88	19.19342	0.59927
50	1:0.50	7	53.64	37.15	13.01	19.30035	0.5867
50	1:0.50	7	53.24	37.22	12.82	19.00568	0.57904
50	1:0.50	8	54.76	35.65	13.3	20.45911	0.66313
50	1:0.50	8	54.58	35.59	13.39	20.61777	0.65273
50	1:0.50	8	54.13	36.11	13.18	20.05187	0.63263
50	1:0.50	9	54.73	33.75	13.74	22.15178	0.74262
50	1:0.50	9	54.38	33.45	13.65	22.19898	0.72662
50	1:0.50	9	54.54	33.58	13.55	21.97477	0.7242
50	1:0.50	10	54.78	32.04	13.87	23.40761	0.79776
50	1:0.50	10	54.6	32.04	13.82	23.33227	0.77641
50	1:0.50	10	54.46	32.07	13.77	23.23739	0.78007
50	1:0.50	11	55.38	29.48	14.48	26.15937	0.90891
50	1:0.50	11	55.39	28.78	14.58	26.86686	0.91747
50	1:0.50	11	55.68	28.67	14.89	27.44548	0.94651
50	1:0.50	13	56.53	26.59	15.7	30.55962	1.06438
50	1:0.50	13	56.78	25.88	15.89	31.54941	1.07813
50	1:0.50	13	56.03	26.97	14.99	29.06543	1.00385

50	1:0.50	14	56.47	25.79	15.96	31.75107	1.10263
50	1:0.50	14	56.79	25.23	15.37	31.34958	1.07178
50	1:0.50	14	56.34	25.49	15.23	30.85786	1.0637
50	1:0.50	15	56.23	24.63	15.85	32.76226	1.13398
50	1:0.50	15	56.22	24.63	15.86	32.77871	1.11635
50	1:0.50	15	56.23	24.63	15.67	32.46517	1.11447
50	1:0.50	16	57.45	21.42	16.23	37.15132	1.2597
50	1:0.50	16	56.13	23.43	15.94	34.22841	1.15963
50	1:0.50	16	56.96	23.37	15.87	34.17947	1.16593
50	1:0.50	17	58.94	20.8	17.25	39.66983	1.32529
50	1:0.50	17	58.05	22.37	17.02	37.26534	1.24464
50	1:0.50	17	58.03	22.62	16.5	36.10862	1.22084
50	1:0.50	18	58.39	20.29	17.59	40.92298	1.35639
50	1:0.50	18	58.49	20.49	17.54	40.56443	1.32947
50	1:0.50	18	58.39	19.38	17.49	42.06552	1.37353
50	1:0.50	20	59.71	17.15	18.7	47.47568	1.50492
50	1:0.50	20	57.93	18.31	18.06	44.60617	1.42445
50	1:0.50	20	59.15	19.24	17.88	42.90174	1.39322
50	1:0.50	21	59.13	15.86	19.71	51.17749	1.58
50	1:0.50	21	58.99	17.05	19.04	48.15609	1.50102
50	1:0.50	21	58.43	17.9	18.32	45.66436	1.45562
50	1:0.50	22	59.43	15.92	19.32	50.51091	1.56689
50	1:0.50	22	59.02	16	19.24	50.25306	1.54365
50	1:0.50	22	54.04	15.95	19.26	50.37044	1.55371

T (°C)	Sistema	Tiempo (días)	Lh	ah	bh	Tono	ln T/To
50	1	0	50.16	55.9	10.91	11.04359	0
50	1	0	50.05	55.67	10.95	11.12773	0
50	1	0	49.81	55.67	10.96	11.13764	0
50	1	1	50.38	52.93	11.16	11.90611	0.0752
50	1	1	51.1	52.81	11.27	12.04659	0.07934
50	1	1	49.87	52.25	11.08	11.97263	0.07229
50	1	2	52.14	50.81	11.5	12.75308	0.14392
50	1	2	52.02	50.84	11.49	12.73508	0.13492
50	1	2	51.81	50.76	11.61	12.88328	0.1456
50	1	3	53	48.58	11.89	13.75284	0.2194
50	1	3	52.92	48.76	11.86	13.67071	0.20582
50	1	3	52.62	48.12	11.96	13.95777	0.22571
50	1	4	53.05	46.03	12.14	14.77481	0.29107
50	1	4	52.96	45.9	12.12	14.79148	0.28461
50	1	4	52.93	45.88	12.13	14.80932	0.28493
50	1	6	52.23	40.83	12.51	17.03466	0.4334
50	1	6	52.99	41.33	12.59	16.94185	0.42035
50	1	6	52.17	41.24	12.48	16.8368	0.41324
50	1	7	52.14	38.14	12.77	18.51153	0.51654
50	1	7	53.45	38.94	12.95	18.39521	0.50265
50	1	7	52.56	39.03	12.86	18.23654	0.4931

50	1	8	53.06	37.01	13.13	19.53311	0.57026
50	1	8	53.84	37.75	13.12	19.16488	0.54364
50	1	8	53.15	37.83	13.15	19.16785	0.5429
50	1	9	53.59	34.89	13.32	20.89542	0.63768
50	1	9	53.64	34.66	13.45	21.20901	0.64499
50	1	9	53.67	34.77	13.54	21.27674	0.64728
50	1	10	54.52	34.97	13.68	21.36506	0.65991
50	1	10	54.39	35	13.61	21.24893	0.64687
50	1	10	54.32	34.47	13.61	21.5459	0.65986
50	1	11	55.38	32.57	13.98	23.23043	0.74361
50	1	11	55.47	32.48	14.01	23.33258	0.74041
50	1	11	55.59	31.99	14.39	24.21955	0.77683
50	1	13	56.81	29.4	14.49	26.23671	0.86531
50	1	13	56.39	29.49	14.48	26.15168	0.85447
50	1	13	56.76	29.29	14.43	26.22761	0.85648
50	1	14	56.37	29.51	14.99	26.9289	0.89135
50	1	14	56.34	30.01	14.56	25.88134	0.84408
50	1	14	56.39	29.49	14.29	25.85348	0.84212
50	1	15	56.47	28.13	15.02	28.09997	0.93392
50	1	15	56.32	28.25	14.99	27.95129	0.92102
50	1	15	56.2	28.15	15.01	28.0672	0.92427
50	1	16	55.4	26.88	15.12	29.35775	0.97771
50	1	16	55.28	26.88	15.07	29.27673	0.96735
50	1	16	55.2	26.48	15.05	29.61189	0.97785
50	1	17	57.43	27.62	16.15	30.31573	1.00982
50	1	17	58.98	26.26	15.89	31.17825	1.03028
50	1	17	57.14	26.15	15.56	30.75386	1.01569
50	1	18	58.59	26.16	16.1	31.60995	1.05162
50	1	18	58.48	26.49	16.39	31.74608	1.04833
50	1	18	58.45	26.59	16.48	31.78988	1.04882
50	1	20	58.35	20.7	17.14	39.62541	1.27762
50	1	20	59.3	22.59	17.05	37.044	1.20267
50	1	20	59.53	23.39	17.18	36.29735	1.18141
50	1	21	58.29	19.77	17.73	41.88618	1.33311
50	1	21	59.52	21.21	17.59	39.66979	1.27115
50	1	21	59.28	21.82	17.58	38.8578	1.24958
50	1	22	59.73	20.72	17.75	40.58535	1.30156
50	1	22	59.71	20.69	17.48	40.19288	1.28425
50	1	22	59.67	20.76	17.71	40.46693	1.29016