COMPILATIVE CATALOGUE OF ENERGY DISTRIBUTIONS IN SPECTRA OF RADIATION OF STARS

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Abstract. The spectral energy distributions Eλ for 555 stars in two wavelength regions are presented in a digital type. The catalogue presents Eλ in regions 320 – 900 nm and 320-1080 nm.

Key words: Stars: energy distributions, catalogue.

The description of the procedure for compiling the Catalog and data on the energy distributions in the spectra of stars were published earlier (Dragunova, et al., 1994; Komarov, et al., 1995). The data were obtained using the averaging procedure on the base of 20 original catalogues made by the several scientific groups. Now the Catalogue is presented as digital version for purposes of calculations. The data are given as Excel tables – Table II and Table III. Form of the data presentation is next: the expression "5.011-5" means "0.00005011 watt per square meter per wavelength range 1 meter". BS catalogue numbers of the stars are given in first line of the tables and wavelengths are given in the first column.

Table II lists the energy distributions in stellar spectra at the spectral region 320 – 900 nm.

Table III gives the same for spectral region 320 – 1080 nm.

Table I contains the List of stars.

Table I. The list of stars.

N	BS	V	Sp	N	BS	V	Sp
1.	3	4.62	K1III	19.	265	4.62	G8III-IV
2.	33	4.88	F6V	20.	269	3.86	A5V
3.	45	4.80	M2III	21.	271	4.39	G8III-IV
4.	63	4.60	A2V	22.	285	4.24	K2III
5.	68	4.51	A2V	23.	294	4.27	K0III
6.	74	3.54	K2III	24.	334	3.44	K2III
7.	153	3.64	B2V	25.	343	4.34	A7V
8.	163	4.36	G5III	26.	351	4.65	K0III
9.	165	3.25	K3III	27.	352	4.50	K0III-IV
10.	168	2.22	K0II-III	28.	402	3.61	K0III
11.	179	4.78	B2V	29.	412	4.89	K3III
12.	188	2.04	K0III	30.	442	4.69	G8III
13.	193	4.54	B2V	31.	456	5.28	G8II-III
14.	211	5.58:	M4III:	32.	458	4.09	F8V
15.	219	3.44	G0V	33.	464	3.56	K3III
16.	224	4.43	K5III	34.	489	4.44	K3III
17.	248	4.77	M0III	35.	509	3.49	G8V
18.	253	4.82	K2III	36.	510	4.26	K0III

N	BS	V	Sp	N	BS	V	Sp
37.	539	3.72	K2III	88.	1231	2.95	M0III
38.	542	3.37	B3III	89.	1251	3.90	A1V
39.	544	3.40	F5III	90.	1298	4.05	F2II-III
40.	549	4.61	K0III	91.	1311	4.83	G5III:
41.	563	5.09	K1IV	92.	1320	4.29	B3V
42.	569	4.77	F0IV	93.	1325	4.44	K0V
43.	580	3.95	A1V	94.	1329	4.96	A7V
44.	585	3.99	M1III	95.	1346	3.64	K0III
45.	603/4	2.10	K2III	96.	1373	3.76	K0III
46.	613	5.04	A0V:	97.	1387	4.22	A7V
47.	617	2.00	K2III	98.	1389	4.30	A2IV
48.	622	3.00	A5III	99.	1392	4.29	A8V
49.	631	5.76	M3III:	100.	1396	4.70	G8III
50.	649	4.36	G8III	101.	1409	3.54	K0III
51.	655	5.28	B9V	102.	1412	3.41	A7III
52.	660	4.86	G0V	103.	1430	5.41	F2V
53.	664	4.00	A1V:	104.	1444	4.65	F0V
54.	689	5.27	M2III:	105.	1451	5.10	M3III:
55.	707	4.49	A5:	106.	1454	4.23	G8II
56.	708	4.88	B9V	107.	1457	0.86	K5III
57.	788	4.90	F9V	108.	1473	4.27	A3V
58.	799	4.11	F7V	109.	1481	3.86	K2III
59.	801	4.65	B3V	110.	1520	4.02	B5IV
60.	804	3.46	A2V	111.	1543	3.18	F6V
61.	818	4.47	F6V	112.	1551	4.76	K3III
62.	824	4.52	K1III	113.	1577	2.68	K3II
63.	834	3.77	K3Ib	114.	1580	4.08	K2III
64.	838	3.60	B8V	115.	1592	4.95	A0V
65.	843	4.54	K5III	116.	1601	4.46	K2II
66.	874	3.88	K1III-IV	117.	1641	3.17	B3V
67.	882	4.94	K2III	118.	1654	3.19	K5III
68.	915	2.94	G8III:	119.	1666	2.77	A3III
69.	918	4.76	K0II-III	120.	1676	4.81	F2IV
70.	937	4.05	G4V	121.	1689	4.86	A7V
71.	941	3.79	K0III	122.	1708	0.06	G0III
72.	951	4.35	K2III	123.	1729	4.72	G0V
73.	972	4.89	A0IV	124.	1735	3.58	B5III
74.	999	4.46	K4III	125.	1790	1.64	B2III
75.	1015	5.09	K3III	126.	1791	1.65	B7III
76.	1017	1.80	F5Ia	127.	1839	4.20	B5IV
77.	1030	3.60	G8III	128.	1865	2.57	F0Ib
78.	1038	3.72	B8V	129.	1899	2.76	O9III
79.	1052	4.35	K3III	130.	1907	4.09	G8III
80.	1066	4.11	K0II-III	131.	1934	4.52	B3III
81.	1084	3.73	K2V	132.	1948/9	1.75	O9Ib
82.	1101	4.28	F8V	133.	1995	4.51	G8III
83.	1122	3.03	B5III	134.	1998	3.54	A3V
84.	1135	3.77	F5II	135.	2004	2.08	B1Ia
85.	1136	3.54	K0IV	136.	2011	4.74	M1III
86.	1162	4.42	M2III	137.	2012	3.98	K0III
87.	1220	2.90	B1III	138.	2035	3.78	G8III

N	BS	V	Sp	N	BS	V	Sp
139.	2047	4.40	G0V	190.	3873	2.97	G0II
140.	2077	3.72	K0III	191.	3903	4.10	G8III
141.	2085	3.71	F0IV	192.	3905	3.89	K2III
142.	2091	4.25	M3II	193.	3950	4.70	M2III
143.	2124	4.12	F0IV	194.	3970	4.51	B8III
144.	2134	4.16	G5III	195.	3975	3.53	A0Ib
145.	2282	3.02	B3V	196.	3980	4.37	K4III
146.	2286	2.89	M3III	197.	3982	1.36	B7V
147.	2356	4.60	B3V	198.	3994	3.61	K0III
148.	2421	1.93	A1IV	199.	4031	3.44	F0III
149.	2429	3.95	K1III	200.	4033	3.46	A2IV
150.	2443	4.40	K1II-III	201.	4057	1.97	K0III
151.	2473	2.99	G8Ib	202.	4069	3.03	M0III
152.	2484	3.35	F5III	203.	4090	4.73	F0V
153.	2491	-1.47	A1V -	204.	4100	4.20	G8III-IV
154.	2540	3.60	A3III	205.	4166	4.67	G2II
155.	2618	1.50	B1II	206.	4247	3.80	K0III-IV
156.	2649	5.12	K3III	207.	4295	2.38	A1V
157.	2693	1.85	F8Ia	208.	4299	4.74	K5III
158.	2697	4.39	K2III	209.	4300	4.41	A1V
159.	2763	3.57	A3V	210.	4301	1.79	K0III
160.	2827	2.44	B5Ia	211.	4310	4.62	F2III-IV
161.	2864	4.53	K2III	212.	4357	2.56	A4V
162.	2905	4.06	M0III	213.	4368	4.46	A7IV
163.	2943	0.35	F5IV	214.	4386	4.04	B9V
164.	2985	3.57	G8III	215.	4399	3.94	F2IV
165.	2990	1.14	K0III	216.	4418	4.95	G8II-III
166.	3249	3.53	K4III	217.	4434	3.83	M0III
167.	3323	3.35	G5III	218.	4471	4.30	G9III
168.	3410	4.12	A0V	219.	4483	5.34	M5V:
169.	3418	4.44	K2III	220.	4517	4.02	M1III
170.	3454	4.28	B3V	221.	4518	3.70	K0III
171.	3461	3.93	K0III	222.	4527	4.54	G5III-IV
172.	3482	3.37	G0III	223.	4534	2.13	A3V
173.	3492	4.35	A0V	224.	4540	3.61	F8V
174.	3547	3.11	K0III	225.	4554	2.43	A0V
175.	3572	4.24	A5IV	226.	4608	4.14	G8III
176.	3619	4.47	F0IV	227.	4660	3.30	A3V
177.	3665	3.88	A0V	228.	4662	2.59	B8III
178.	3690	3.82	A3V	229.	4689	3.88	A2V
179.	3705	3.14	M0III	230.	4737	4.35	K1III-IV
180.	3731	4.46	K2III	231.	4757	2.95	B9V
181.	3748	1.99	K3III	232.	4785	4.26	G0V
182.	3759	4.59	F6V	233.	4825/6	2.75	F0V
183.	3771	4.55	G2IV	234.	4883	4.94	G0III
184.	3773	4.31	K5III	235.	4902	4.80	M3III
185.	3775	3.18	F6IV	236.	4920	4.78	M0III
186.	3800	4.55	G8III	237.	4924	4.89	G9II-III
187.	3834	4.67	K3III	238.	4932	2.83	G9III
188.	3845	3.88	K3III	239.	4954	4.80	K5III
189.	3852	3.48	F6II+A5V	240.	4983	4.26	G0V

N	BS	V	Sp	N	BS	V	Sp
241.	5054	2.27	A2V	292.	5892	3.71	A5IV
242.	5062	4.00	A5V	293.	5899	4.75	K5III
243.	5107	3.37	A3V	294.	5901	4.81	K0III-IV
244.	5112	4.66	A4V	295.	5903	4.30	A3V
245.	5127	4.83	A7III	296.	5932	5.35	M3III
246.	5154	4.66	M2III	297.	5933	3.82	F6V
247.	5185	4.50	F7V	298.	5944	2.90	B1V
248.	5200	4.06	K5III	299.	5947	4.15	K3III
249.	5235	2.67	G0IV	300.	5953	2.30	B0V
250.	5291	3.65	A0III	301.	5968	5.41	G2V
251.	5300	5.24	M3III	302.	5971	4.99	A0III
252.	5315	4.18	K3III	303.	5984	2.55	B0V
253.	5338	4.08	F6III	304.	5993	3.97	B1V
254.	5340	-0.05	K2III	305.	6018	4.79	K0III
255.	5361	4.80	K1III	306.	6023	4.25	B9II
256.	5370	4.85	K3III	307.	6056	2.73	M1III
257.	5404	4.06	F7V	308.	6075	3.23	G8III
258.	5429	3.57	K3III	309.	6092	3.89	B5IV
259.	5430	4.26	K4III	310.	6095	3.76	A9III
260.	5477/8	3.78	A2III	311.	6103	4.85	K0III
261.	5487	3.87	F3IV	312.	6107	5.32	M2III:
262.	5502	4.60	K0III	313.	6108	5.39	K5III
263.	5505/6	2.37	K0II-III	314.	6132	2.73	G8III
264.	5511	3.74	A0V	315.	6148	2.78	G8III
265.	5531	2.75	A3V	316.	6149	3.81	A1V
266.	5544	4.59	G8V	317.	6159	4.84	K5III
267.	5563	2.08	K4III	318.	6165	2.83	B0V
268.	5590	5.51	M1Ib	319.	6168	4.20	B9V
269.	5600	4.80	K4III	320.	6200	4.90	M2III:
270.	5601	4.40	K0III	321.	6212	2.81	G0IV
271.	5602	3.49	G8III	322.	6228	5.14	K5III
272.	5616	4.52	K2III	323.	6270	5.04	K2II-III
273.	5681	3.48	G8III	324.	6281	4.37	B8IV
274.	5685	2.61	B8V	325.	6318	4.82	K4III
275.	5727/8	4.97	G2V	326.	6324	3.91	B9V
276.	5733	4.30	F0V	327.	6337	4.98	M3III
277.	5739	5.17	M1III	328.	6378	2.43	A2V
278.	5741	5.44	K4III	329.	6396	3.18	B6III
279.	5763	5.03	K5III	330.	6410	3.14	A3IV
280.	5774	4.99	A5V	331.	6418	3.16	K3II
281.	5777	4.61	K1III	332.	6484/5	4.16	A0IV
282.	5778	4.16	B7II	333.	6526	4.40	K4III
283.	5787	3.90	G8III-IV	334.	6536	2.80	G2II
284.	5800	5.22	M2III	335.	6556	2.07	A5III
285.	5826	5.14	K5III	336.	6561	3.54	F0IV
286.	5854	2.64	K2III	337.	6588	3.80	B3IV
287.	5867	3.67	A2IV	338.	6603	2.77	K2III
288.	5868	4.43	G0V	339.	6623	3.41	G5IV
289.	5879	4.10	M1III	340.	6629	3.73	A0V
290.	5881	3.54	A0V	341.	6695	3.85	K1III
291.	5889	4.62	G5III-IV	342.	6698	3.34	K0III

N	BS	V	Sp	N	BS	V	Sp
343.	6703	3.70	K0III	394.	7437	5.00	B7V
344.	6705	2.23	K5III	395.	7446	4.95	B0III
345.	6714	3.96	B0III	396.	7447	4.36	B5III
346.	6723	4.44	A1V	397.	7468	5.17	K0III
347.	6752	4.03	K0V	398.	7478	4.66	G8III-IV
348.	6770	4.64	G8III-IV	399.	7479	4.36	G0II
349.	6771	3.73	A4V	400.	7488	4.37	G8II
350.	6787	4.36	B2V	401.	7497	5.22	F3V:
351.	6789	4.35	A1V	402.	7506	5.48	G8III
352.	6860	5.27	K4II	403.	7517	4.90	G8III
353.	6868	4.94	M0III	404.	7525	2.71	K3II
354.	6869	3.26	K0III-IV	405.	7528	2.87	B9III
355.	6872	4.32	K2III	406.	7534	4.98	F5V
356.	6891	5.05	M2II:	407.	7557	0.75	A7IV-V
357.	6895	3.84	K2III	408.	7560	5.13	F8V
358.	6913	2.84	K2III	409.	7576	5.03	K3III
359.	6927	3.56	F7V	410.	7582	3.83	G8III
360.	6973	3.85	K3III	411.	7595	4.70	K0III
361.	7051/2	4.66	A5V:	412.	7602	3.71	G8IV
362.	7053/4	4.60	A5V:	413.	7613	4.94	B6III
363.	7056	4.35	A5V	414.	7615	3.90	K0III
364.	7059	5.68	A5V:	415.	7635	3.48	K5III
365.	7061	4.19	F6V	416.	7653	4.63	A5V
366.	7063	4.22	G5II	417.	7660	5.06	K1Ib
367.	7064	4.81	K3III	418.	7679	5.09	K2III
368.	7069	4.35	A3V	419.	7685	4.51	K3III
369.	7121	2.06	B4IV	420.	7710	3.24	B9III
370.	7133	4.88	G4III	421.	7744	4.52	K3III
371.	7149	4.82	K2III	422.	7747	4.24	G3Ib
372.	7150	3.51	K1III	423.	7750	4.37	B9III
373.	7176	4.02	K2III	424.	7754	3.56	G9III
374.	7178	3.25	B9III	425.	7776	3.08	F8V
375.	7192	4.93	K3II	426.	7796	2.21	F8Ib
376.	7193	4.02	K1III	427.	7806	4.42	K3III
377.	7194	2.60	A2IV	428.	7850	4.21	A5V:
378.	7234	3.32	K1III	429.	7851	5.42	M2III
379.	7235	2.99	B9V	430.	7852	4.04	B5V
380.	7236	3.44	B8V	431.	7866	4.60	K2Ib
381.	7310	3.07	G9III	432.	7871	4.66	A3V
382.	7314	4.35	K0II	433.	7882	3.58	F5III
383.	7328	3.77	K0III	434.	7884	4.31	G8III
384.	7340	3.93	F0IV	435.	7896	5.06	G5IV
385.	7352	4.46	K3III	436.	7906	3.76	B8V
386.	7377	3.36	F0IV-V	437.	7928	4.42	A7III
387.	7385	5.14	K0III	438.	7939	4.91	K2III
388.	7387	4.66	F2Ib	439.	7942	4.20	K0III
389.	7405	4.42	M0III	440.	7949	2.46	K0III
390.	7417	3.08	K3II	441.	7950	3.77	A1V
391.	7420	3.79	A5V	442.	7951	4.42	M3III
392.	7426	4.73	B3IV	443.	7963	4.52	B5V
393.	7429	4.44	K3III	444.	7984	5.05	A7V

N	BS	V	Sp	N	BS	V	Sp
445.	7990	4.72	F2IV	486.	8454	4.30	F5II
446.	8001	4.78	B5V	487.	8465	3.36	K1Ib
447.	8008	5.00	K4III	488.	8485	4.49	K3III
448.	8011	5.16	K0III	489.	8494	4.20	G0IV
449.	8028	3.93	A0V	490.	8498	4.13	K3II
450.	8047	4.75	B1IV:	491.	8499	4.16	G8III
451.	8075	4.06	A0V	492.	8518	3.84	A0IV
452.	8089	4.53	K4II	493.	8522	4.79	B8V
453.	8093	4.51	G8III	494.	8523	4.57	B6IV
454.	8097	4.68	F0I	495.	8538	4.42	G9III
455.	8115	3.19	G8II	496.	8539	4.66	B0V
456.	8123	4.48	F8V	497.	8541	4.56	B2III
457.	8131	3.95	G0III	498.	8551	4.79	K0III
458.	8143	4.23	B9Ia:	499.	8558/9	3.65	F2IV
459.	8162	2.43	A7IV-V	500.	8572	4.36	M0Ib
460.	8167	4.28	G8III	501.	8579	4.49	B2IV
461.	8173	4.09	K1III	502.	8585	3.75	A0V
462.	8225	4.55	M1III	503.	8597	4.03	B8V
463.	8228	5.23	K0III	504.	8613	4.63	A7IV
464.	8232	2.88	G0Ib	505.	8622	4.87	O9V
465.	8255	4.88	K1III	506.	8634	3.39	B8V
466.	8278	3.66	F2III	507.	8641	4.81	A1V
467.	8284	5.10	M1III	508.	8650	2.96	G2II-III
468.	8288	4.72	G8III	509.	8656	5.08	K0III
469.	8301	4.66	B3V	510.	8665	4.20	F6IV
470.	8308	2.40	K2Ib	511.	8667	3.95	G8II-III
471.	8309/1	4.50	F3V:	512.	8679	4.01	M0III
472.	8315	4.14	F5IV	513.	8684	3.48	K0III
473.	8317	4.55	K0III	514.	8694	3.50	K1III
474.	8321	5.29	K0Ib	515.	8699	4.94	M0II:
475.	8334	4.28	A2Ia	516.	8709	3.27	A2III
476.	8335	4.23	B3III	517.	8717	4.90	A1V
477.	8339	5.44	M1III:	518.	8780	4.64	K0III
478.	8343	5.06	A0V	519.	8781	2.50	B9V
479.	8410	5.29	A7IV	520.	8795	4.52	M2III
480.	8413	4.84	K4III	521.	8796	4.76	K0II
481.	8414	2.93	G2Ib	522.	8797	4.86	B1III
482.	8416	5.28	M5III	523.	8812	3.66	K0III
483.	8417	4.28	F5V	524.	8819	4.41	G2III
484.	8430	3.76	F5V	525.	8830	4.52	F0V
485.	8450	3.52	A2IV	526.	8834	4.22	M2III
527.	8841	4.22	K0III	537.	8939	4.69	A1V
528.	8850	5.03	M5III	538.	8963	5.40	A1V
529.	8852	3.69	G7III	539.	8965	4.27	B8V
530.	8872	4.74	K0III	540.	8969	4.13	F7V
531.	8878	5.05	K2III	541.	8974	3.22	K1IV
532.	8882	5.65	M0III	542.	8976	4.14	B8V
533.	8892	3.96	K0III	543.	8984	4.50	A7V
534.	8905	4.41	F8IV	544.	8991	5.22	M2III
535.	8916	4.27	K1III	545.	8997	4.93	K0III
536.	8923	4.54	G8III	546.	9003	4.96	G5Ib

547.	9008	4.87	K1III	552.	9067	4.86	G8III
548.	9012	5.48	G8III	553.	9071	4.88	B1V
549.	9030	6.01	M3III	554.	9072	4.02	F4IV
550.	9036	5.05	M3III	555.	9089	4.41	M3IV
551.	9064	4.64	M3III				

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