

Acme Engineering & Manufacturing Corporation

SILENTVANE™ 8800 Series Plenum Fan Sound Power Levels



Specify Quality.

Licensed to bear the AMCA Seal for Sound and Air Performance

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Acme Engineering & Manufacturing Corporation, Industrial Products Division, certifies that the SILENTVANE™ 8800 Series fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. For air performance data refer to catalog C813.

The sound power level ratings shown are in decibels, referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for inlet L_{wi} sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include the effects of duct end correction.

This catalog is a supplement to ACME's FANTastic!® fan selection program and catalog C813. Because of speed and user friendliness, sound power data should be obtained using FANTastic!® if possible; however, equivalent results will be obtained regardless of which source is used.

Test set ups and presentation of sound data

This catalog is based on AMCA Standards 300, 301 and 210. Inlet sound was tested as in Figure 2 of AMCA Standard 300 and was determined in the same configuration as the air performance tests – Installation Type A: free inlet, free outlet.

Sound power levels in this catalog are presented as dB (decibels re 10^{-12} W) in each of the eight octave bands having mid frequencies from 63 to 8000 Hz. Also presented is a single A-weighted sound power level, L_{wA} .

Application of sound data

Installation of a fan in the system has an impact on the fan sound performance and a number of factors may be involved.

For example, fan, motor and sheaves dynamic balance can affect the sound power in the first and second bands. A similar impact can have a duct connected to the fan without proper acoustic separation.

System effects (see AMCA Publication 201), e.g. non-uniform air distribution on the fan inlet, can also influence the fan sound performance in the octave band containing the blade pass frequency (BPF):

$$BPF(Hz) = \frac{Fan (rpm) \times \# Blades}{60}$$

Determination of Fan Sound Power

Sound power data are provided in charts for the full range of fan speeds and selected system curves. A constant K for the operational system curve can be calculated for a given air performance described by fan flow rate Q (cfm) and fan static pressure SP (in.WG):

$$K = \frac{SP (in.wg)}{Q (cfm)^2} \times 10^8$$

1. Determine the eight sound power levels using the lower system curve constant K and the higher fan speed shown.

The following procedure for calculating the fan operational levels of sound of a fan having selected size and speed :

2. Determine the eight sound power levels using the higher system curve constant K and the higher fan speed shown.
3. Determine the eight sound power levels using the higher system curve constant K and the lower fan speed shown.
4. Determine the eight sound power levels using the lower system curve constant K and the higher fan speed shown.
5. Determine the eight sound power levels using the lower system curve constant K and the lower fan speed shown.
6. Interpolate among the four set of data for each octave band using the operational fan speed and the system curve constant K.

This method will give results within the guidelines of AMCA. The mathematics is simple in theory but complicated due to the number of variables that must be used to accurately determine the sound levels for a given performance. For this reason Acme has made available the fan selection program FANTastic!®. FANTastic!® will accurately make all of these calculations.

Size 8812													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
800	1	59	60	56	51	48	42	35	28	53	517	0.211	789.505
	2	60	61	57	52	48	43	35	28	54	570	0.163	501.879
	3	60	61	58	53	49	44	36	28	55	604	0.115	314.973
	4	61	62	59	54	50	45	36	29	56	638	0.069	170.110
	5	59	59	58	52	49	45	36	28	55	681	0.017	36.579
1100	1	67	66	66	60	57	52	45	38	62	710	0.398	789.505
	2	67	67	68	60	57	53	45	38	63	783	0.308	501.879
	3	68	67	69	61	58	54	46	37	64	830	0.217	314.973
	4	69	68	69	62	58	55	46	37	65	878	0.131	170.110
	5	68	66	68	61	58	55	45	36	64	937	0.032	36.579
1600	1	77	74	75	71	66	63	57	50	72	1033	0.843	789.505
	2	77	75	76	72	67	64	57	50	73	1139	0.651	501.879
	3	78	76	77	73	68	65	58	50	74	1208	0.460	314.973
	4	79	76	77	74	68	65	59	50	75	1277	0.277	170.110
	5	76	74	76	72	67	65	59	49	74	1362	0.068	36.579
2200	1	87	82	81	81	75	72	67	60	81	1420	1.593	789.505
	2	87	82	82	83	76	72	68	60	82	1566	1.231	501.879
	3	87	83	82	84	77	73	69	61	83	1661	0.869	314.973
	4	87	84	83	84	77	74	70	61	84	1755	0.524	170.110
	5	82	83	81	83	76	73	70	61	83	1873	0.128	36.579
3200	1	96	93	89	90	86	81	78	72	91	2066	3.370	789.505
	2	95	93	90	91	87	82	79	73	92	2278	2.605	501.879
	3	96	93	91	92	88	83	80	73	93	2416	1.838	314.973
	4	96	94	91	92	89	83	80	74	93	2553	1.109	170.110
	5	90	91	89	91	87	82	80	74	92	2725	0.272	36.579
4523	1	103	103	98	96	97	90	87	83	100	2920	6.733	789.505
	2	103	102	98	97	99	91	88	84	101	3220	5.204	501.879
	3	103	103	99	98	100	92	89	85	102	3414	3.672	314.973
	4	103	103	100	98	100	93	89	86	102	3609	2.215	170.110
	5	97	97	99	96	99	91	89	86	101	3851	0.543	36.579

Size 8813													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
700	1	57	57	53	48	45	40	36	32	51	531	0.244	867.212
	2	59	58	55	50	47	42	35	31	53	630	0.186	469.737
	3	58	58	56	51	49	43	35	31	53	720	0.128	247.517
	4	58	59	57	51	50	45	36	31	54	762	0.071	121.715
	5	59	61	58	52	50	46	37	32	55	820	0.013	18.703
1000	1	67	64	64	58	54	50	46	42	60	758	0.499	867.212
	2	69	65	67	60	57	51	45	39	62	900	0.380	469.737
	3	66	66	67	60	58	52	45	37	63	1028	0.262	247.517
	4	65	67	68	61	59	54	45	36	64	1089	0.144	121.715
	5	65	68	69	62	60	55	46	36	65	1172	0.026	18.703
1400	1	76	72	72	68	63	60	55	51	69	1062	0.978	867.212
	2	77	74	74	70	66	61	56	49	71	1260	0.746	469.737
	3	74	73	75	70	67	63	56	48	72	1440	0.513	247.517
	4	72	73	76	71	68	64	57	48	73	1524	0.283	121.715
	5	72	74	77	72	68	65	58	48	74	1641	0.050	18.703
2000	1	84	82	79	79	73	69	65	61	79	1517	1.995	867.212
	2	86	84	80	82	75	72	67	60	81	1800	1.521	469.737
	3	84	81	81	82	75	73	67	60	82	2057	1.047	247.517
	4	81	80	82	83	76	74	69	60	83	2178	0.577	121.715
	5	80	80	83	84	77	75	70	61	84	2344	0.103	18.703
2800	1	92	91	88	87	83	78	75	71	88	2124	3.911	867.212
	2	93	92	89	89	85	81	76	71	90	2520	2.982	469.737
	3	92	90	88	90	86	82	78	71	90	2879	2.052	247.517
	4	89	87	88	91	86	83	79	72	91	3049	1.131	121.715
	5	88	87	89	92	87	83	80	73	92	3282	0.201	18.703
4120	1	100	100	98	95	95	89	85	81	98	3125	8.467	867.212
	2	102	101	100	96	98	90	88	83	100	3707	6.457	469.737
	3	100	100	97	96	98	91	89	84	101	4237	4.443	247.517
	4	97	97	95	97	99	92	90	85	101	4486	2.450	121.715
	5	96	96	95	99	100	92	91	86	102	4829	0.436	18.703

Size 8815													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
800	1	67	64	59	55	51	47	43	39	57	728	0.404	761.447
	2	68	67	60	55	51	48	43	39	58	974	0.300	316.313
	3	66	66	60	55	51	49	44	40	58	1081	0.197	168.357
	4	64	67	61	55	52	50	47	43	59	1203	0.101	69.706
	5	64	67	62	56	53	53	50	46	60	1338	0.019	10.699
1100	1	75	74	67	63	59	56	52	48	66	1002	0.764	761.447
	2	74	76	68	64	60	57	52	47	67	1340	0.568	316.313
	3	70	76	69	64	60	57	53	49	67	1487	0.372	168.357
	4	68	76	70	64	60	59	56	52	68	1654	0.191	69.706
	5	66	76	71	65	61	61	59	57	69	1840	0.036	10.699
1500	1	81	81	77	72	68	64	60	56	74	1366	1.421	761.447
	2	82	82	79	73	68	65	61	56	75	1827	1.056	316.313
	3	78	80	79	73	68	65	62	58	75	2027	0.692	168.357
	4	75	79	80	74	69	66	64	61	76	2255	0.354	69.706
	5	74	78	80	74	69	68	67	65	77	2509	0.067	10.699
2000	1	87	88	86	80	76	72	68	64	82	1821	2.526	761.447
	2	89	87	89	81	76	72	69	64	84	2436	1.877	316.313
	3	85	83	88	81	76	72	70	66	84	2703	1.230	168.357
	4	83	81	89	82	77	73	72	68	84	3007	0.630	69.706
	5	80	80	89	83	77	74	74	72	85	3345	0.120	10.699
2700	1	94	94	94	89	84	80	76	73	91	2459	4.603	761.447
	2	96	94	95	90	85	80	77	73	92	3289	3.421	316.313
	3	92	90	93	91	85	80	78	74	91	3649	2.242	168.357
	4	89	88	93	92	85	81	79	76	92	4059	1.148	69.706
	5	87	86	92	92	86	82	80	79	92	4516	0.218	10.699
3700	1	101	101	101	99	93	89	85	81	99	3369	8.644	761.447
	2	103	102	101	101	94	89	85	82	101	4507	6.425	316.313
	3	98	98	97	101	94	89	85	83	100	5000	4.210	168.357
	4	96	96	96	102	95	90	86	85	101	5562	2.157	69.706
	5	94	94	95	102	96	90	87	87	101	6189	0.410	10.699

Size 8816													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
725	1	69	64	59	54	51	47	43	39	57	962	0.384	415.240
	2	67	65	58	53	51	47	41	37	57	1169	0.266	194.604
	3	65	66	59	53	51	47	41	37	57	1277	0.176	108.235
	4	64	66	60	53	51	47	42	38	57	1375	0.093	48.912
	5	64	66	61	54	51	49	45	41	58	1552	0.017	7.102
1000	1	77	74	68	63	59	56	52	48	66	1327	0.731	415.240
	2	73	75	68	62	59	56	50	45	66	1613	0.506	194.604
	3	70	75	68	62	59	56	50	45	65	1761	0.336	108.235
	4	68	75	69	62	59	56	51	45	66	1897	0.176	48.912
	5	68	75	70	63	60	58	54	50	67	2141	0.033	7.102
1400	1	85	83	78	73	68	65	62	57	75	1857	1.433	415.240
	2	82	81	79	72	68	65	60	55	75	2258	0.992	194.604
	3	78	79	79	72	67	64	60	55	75	2466	0.658	108.235
	4	77	79	80	73	68	65	61	55	75	2656	0.345	48.912
	5	76	78	80	74	68	66	63	59	76	2997	0.064	7.102
1800	1	91	90	86	80	75	72	69	64	83	2388	2.368	415.240
	2	89	86	87	79	74	71	68	62	82	2903	1.640	194.604
	3	85	83	87	80	74	71	68	62	82	3170	1.088	108.235
	4	84	82	88	81	74	72	68	63	83	3415	0.570	48.912
	5	83	81	88	82	75	72	70	66	83	3854	0.105	7.102
2400	1	97	96	94	89	83	79	76	72	91	3184	4.210	415.240
	2	96	93	93	89	83	79	76	71	90	3871	2.916	194.604
	3	91	90	92	89	82	79	75	71	90	4227	1.934	108.235
	4	90	88	92	90	83	79	76	71	90	4553	1.014	48.912
	5	90	87	92	91	84	79	77	74	91	5138	0.188	7.102
3363	1	104	104	103	99	93	88	85	82	100	4462	8.267	415.240
	2	103	102	100	100	92	88	85	81	99	5424	5.726	194.604
	3	99	98	97	100	93	87	84	81	99	5923	3.797	108.235
	4	98	97	96	100	94	87	85	81	100	6380	1.991	48.912
	5	97	96	95	101	95	88	85	83	100	7200	0.368	7.102

Size 8818													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	Sys tem Curve Data	
		1	2	3	4	5	6	7	8			SP	K
600	1	61	60	54	53	49	43	38	33	54	833	0.328	472.251
	2	62	62	55	54	50	44	37	32	55	1215	0.244	164.926
	3	62	62	56	54	51	45	38	33	56	1389	0.168	86.903
	4	64	63	59	56	48	46	38	33	56	1554	0.098	40.476
	5	65	63	61	57	49	48	43	38	58	1772	0.016	5.022
900	1	67	72	66	61	62	55	50	45	66	1250	0.738	472.251
	2	67	74	67	62	63	56	49	42	66	1823	0.548	164.926
	3	68	74	68	62	64	57	50	42	67	2083	0.377	86.903
	4	71	75	70	64	61	58	50	42	67	2331	0.220	40.476
	5	72	76	72	65	62	60	55	49	69	2657	0.035	5.022
1200	1	78	76	75	69	68	65	58	53	73	1667	1.312	472.251
	2	78	77	77	70	69	65	58	51	74	2431	0.974	164.926
	3	78	77	77	71	69	66	59	52	74	2778	0.671	86.903
	4	81	79	79	73	69	66	60	52	75	3108	0.391	40.476
	5	82	80	80	74	70	67	63	58	77	3543	0.063	5.022
1800	1	93	82	88	81	76	77	70	65	84	2500	2.952	472.251
	2	92	83	89	82	77	78	71	64	85	3646	2.192	164.926
	3	92	83	89	83	77	79	72	65	85	4167	1.509	86.903
	4	95	86	90	85	79	76	73	65	87	4661	0.880	40.476
	5	97	87	91	87	80	77	75	70	88	5315	0.142	5.022
2700	1	101	98	93	94	88	85	84	77	94	3750	6.641	472.251
	2	101	97	94	96	88	86	84	77	95	5469	4.932	164.926
	3	101	97	94	96	89	87	85	78	96	6250	3.395	86.903
	4	103	100	96	97	92	87	84	79	97	6992	1.979	40.476
	5	106	102	97	98	93	88	85	82	99	7972	0.319	5.022
3933	1	110	110	101	104	99	94	94	88	104	5462	14.091	472.251
	2	109	109	101	105	100	94	95	89	105	7966	10.466	164.926
	3	109	109	101	105	101	95	96	90	106	9104	7.203	86.903
	4	112	112	105	107	103	97	94	90	107	10185	4.199	40.476
	5	114	114	105	107	104	98	95	92	109	11612	0.677	5.022

Size 8820													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	Sys tem Curve Data	
		1	2	3	4	5	6	7	8			SP	K
550	1	69	69	64	57	52	47	42	37	60	1337	0.330	184.727
	2	68	70	64	56	52	47	42	37	60	1644	0.247	91.498
	3	66	70	65	56	52	47	41	36	60	1841	0.172	50.656
	4	66	72	65	56	52	47	41	36	61	2007	0.094	23.267
	5	66	71	65	57	53	48	42	37	61	2209	0.016	3.223
800	1	76	77	77	68	62	58	53	48	71	1944	0.698	184.727
	2	73	78	77	68	62	58	52	47	71	2391	0.523	91.498
	3	70	78	77	68	62	58	52	46	71	2678	0.363	50.656
	4	69	79	78	68	62	58	52	45	72	2919	0.198	23.267
	5	69	79	78	68	63	59	53	47	72	3213	0.033	3.223
1200	1	88	85	86	82	75	69	65	60	83	2916	1.571	184.727
	2	84	84	87	82	74	69	65	59	83	3586	1.177	91.498
	3	82	82	87	82	74	69	64	58	83	4016	0.817	50.656
	4	80	82	88	82	74	69	64	58	83	4378	0.446	23.267
	5	80	82	87	83	75	70	65	59	83	4819	0.075	3.223
1700	1	97	93	93	93	86	79	75	70	93	4131	3.153	184.727
	2	94	90	94	94	85	79	75	69	93	5081	2.362	91.498
	3	92	87	94	94	85	79	75	69	93	5690	1.640	50.656
	4	90	86	95	94	85	79	75	69	93	6202	0.895	23.267
	5	89	86	95	94	85	80	76	70	93	6827	0.150	3.223
2400	1	104	103	100	101	97	90	84	80	101	5832	6.284	184.727
	2	101	99	99	102	97	89	84	80	102	7173	4.707	91.498
	3	99	97	97	102	97	89	84	79	102	8033	3.269	50.656
	4	97	96	97	103	98	89	84	79	102	8756	1.784	23.267
	5	97	95	97	102	98	90	85	80	102	9638	0.299	3.223
3588	1	113	113	110	109	109	102	96	92	112	8720	14.045	184.727
	2	110	110	106	110	110	102	96	91	112	10723	10.521	91.498
	3	108	108	104	109	110	102	95	91	112	12009	7.306	50.656
	4	106	106	102	110	111	102	96	92	113	13091	3.987	23.267
	5	105	105	102	110	110	102	97	92	112	14409	0.669	3.223

Size 8822													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
500	1	63	60	53	49	46	42	37	33	52	1665	0.293	105.477
	2	63	62	54	50	47	43	37	33	53	1909	0.227	62.177
	3	63	62	55	51	48	44	37	33	54	2145	0.156	33.808
	4	64	63	57	53	49	46	38	34	55	2378	0.092	16.283
	5	65	64	59	55	51	48	40	36	57	2705	0.015	2.035
700	1	68	71	64	58	55	51	47	42	62	2332	0.573	105.477
	2	68	73	64	58	56	52	46	41	62	2673	0.444	62.177
	3	68	73	65	59	57	53	46	40	63	3004	0.305	33.808
	4	68	74	67	61	58	55	48	41	65	3330	0.181	16.283
	5	69	75	69	63	60	57	50	43	66	3788	0.029	2.035
1100	1	83	79	79	71	67	64	59	55	74	3664	1.416	105.477
	2	83	80	80	72	67	65	60	54	75	4200	1.097	62.177
	3	84	80	80	73	68	66	61	54	76	4720	0.753	33.808
	4	84	80	82	75	70	67	62	55	77	5232	0.446	16.283
	5	84	81	83	77	72	69	64	57	79	5952	0.072	2.035
1600	1	95	88	89	83	77	74	70	66	85	5330	2.996	105.477
	2	94	88	90	84	77	75	71	65	86	6109	2.320	62.177
	3	95	87	91	85	78	75	72	66	86	6865	1.593	33.808
	4	96	88	91	86	80	77	74	67	88	7610	0.943	16.283
	5	96	88	92	88	82	79	76	69	89	8657	0.153	2.035
2200	1	102	99	94	94	86	82	79	74	94	7328	5.664	105.477
	2	101	98	95	95	87	82	80	75	94	8399	4.387	62.177
	3	102	99	95	95	88	83	81	76	95	9440	3.013	33.808
	4	103	99	95	97	90	85	82	77	96	10464	1.783	16.283
	5	103	100	96	98	92	87	84	79	98	11904	0.288	2.035
3226	1	110	110	103	104	98	92	89	85	104	10746	12.180	105.477
	2	109	109	103	106	99	92	90	86	105	12317	9.432	62.177
	3	110	110	103	106	100	94	91	87	106	13842	6.478	33.808
	4	111	111	103	106	102	95	92	89	107	15345	3.834	16.283
	5	111	111	104	107	103	97	94	91	108	17455	0.620	2.035

Size 8824													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
450	1	63	62	55	49	45	41	37	32	52	1863	0.324	93.456
	2	64	62	56	50	45	40	36	32	53	2274	0.257	49.704
	3	66	64	56	51	46	41	35	31	54	2537	0.178	27.586
	4	66	65	57	53	48	43	36	32	55	2887	0.099	11.827
	5	67	66	58	55	51	46	39	34	57	3338	0.017	1.483
650	1	69	73	67	60	55	51	47	43	63	2691	0.677	93.456
	2	71	74	67	61	55	50	46	42	64	3285	0.536	49.704
	3	72	75	68	62	56	51	45	40	65	3664	0.370	27.586
	4	72	76	68	63	58	53	46	39	66	4170	0.206	11.827
	5	72	77	70	66	61	56	49	42	68	4822	0.034	1.483
950	1	76	79	78	72	66	61	57	53	74	3934	1.446	93.456
	2	78	80	79	72	66	61	56	52	74	4802	1.146	49.704
	3	80	82	80	73	68	62	57	51	76	5356	0.791	27.586
	4	79	82	81	74	69	64	58	51	77	6094	0.439	11.827
	5	79	82	82	76	72	67	61	54	78	7047	0.074	1.483
1400	1	84	86	89	84	77	72	68	64	85	5797	3.141	93.456
	2	86	87	90	85	78	72	67	63	86	7076	2.489	49.704
	3	88	88	92	86	79	74	68	63	87	7893	1.718	27.586
	4	87	88	92	86	81	76	70	64	88	8981	0.954	11.827
	5	86	88	93	87	83	79	73	66	89	10386	0.160	1.483
2000	1	92	92	95	95	89	82	78	74	94	8281	6.409	93.456
	2	94	94	96	96	89	83	78	73	95	10109	5.079	49.704
	3	95	96	98	97	90	84	79	73	97	11275	3.507	27.586
	4	95	95	98	97	91	86	81	75	97	12830	1.947	11.827
	5	94	95	98	99	93	89	84	78	99	14837	0.326	1.483
2929	1	100	100	101	105	100	94	88	84	105	12128	13.747	93.456
	2	102	102	103	106	101	94	89	84	106	14804	10.894	49.704
	3	104	104	104	107	102	95	90	85	107	16513	7.522	27.586
	4	103	103	104	108	102	97	92	87	107	18790	4.176	11.827
	5	102	102	104	109	104	99	95	89	109	21728	0.700	1.483

Size 8827													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
400	1	63	56	50	47	44	41	38	34	50	2124	0.316	70.137
	2	65	58	52	49	48	42	37	33	52	3009	0.243	26.850
	3	68	60	53	52	51	43	39	35	55	3437	0.168	14.211
	4	68	61	55	55	54	45	40	36	57	3876	0.094	6.253
	5	69	62	56	57	56	48	41	38	59	4287	0.015	0.817
600	1	75	69	61	57	55	52	48	45	61	3186	0.712	70.137
	2	77	71	63	59	58	53	48	43	63	4513	0.547	26.850
	3	80	73	65	62	62	55	50	45	66	5156	0.378	14.211
	4	80	74	66	65	65	57	51	45	68	5814	0.211	6.253
	5	80	75	68	67	67	60	53	46	70	6430	0.034	0.817
900	1	77	82	74	68	65	63	59	56	72	4779	1.602	70.137
	2	80	84	77	70	68	65	60	55	74	6770	1.231	26.850
	3	82	87	79	72	70	68	61	57	77	7734	0.850	14.211
	4	82	87	80	74	73	71	63	57	78	8721	0.476	6.253
	5	83	88	81	76	76	73	65	58	80	9645	0.076	0.817
1200	1	80	90	84	76	72	70	67	63	80	6372	2.847	70.137
	2	82	92	86	78	74	74	68	63	83	9027	2.188	26.850
	3	84	95	88	80	77	77	70	65	85	10312	1.511	14.211
	4	85	95	89	81	80	80	72	66	86	11628	0.846	6.253
	5	86	95	90	83	82	82	75	68	88	12860	0.135	0.817
1800	1	89	92	97	89	83	80	78	74	92	9558	6.407	70.137
	2	91	94	100	92	85	83	80	75	94	13540	4.922	26.850
	3	93	97	102	94	87	86	83	76	96	15467	3.400	14.211
	4	94	97	102	95	89	88	86	78	97	17442	1.903	6.253
	5	94	98	103	96	91	91	88	80	99	19290	0.304	0.817
2546	1	96	96	106	101	93	89	87	84	101	13519	12.818	70.137
	2	98	98	108	103	95	91	90	85	104	19151	9.848	26.850
	3	101	101	110	105	97	93	93	87	106	21878	6.802	14.211
	4	101	101	110	106	98	96	96	89	107	24671	3.806	6.253
	5	102	102	111	107	100	98	98	92	108	27285	0.608	0.817

Size 8830													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
350	1	62	56	52	48	44	41	37	33	51	1757	0.331	107.268
	2	63	58	53	50	46	42	36	33	52	3204	0.249	24.282
	3	65	58	54	50	46	43	36	33	52	3748	0.169	11.998
	4	66	60	55	52	48	45	38	34	54	4272	0.091	5.010
	5	67	62	57	54	50	47	40	36	56	4840	0.015	0.655
500	1	73	67	61	58	54	51	47	43	60	2510	0.676	107.268
	2	74	68	62	60	55	52	46	40	61	4577	0.509	24.282
	3	76	69	63	60	56	52	46	40	62	5354	0.344	11.998
	4	77	71	64	62	57	54	47	40	64	6102	0.187	5.010
	5	78	73	66	64	59	57	50	43	65	6914	0.031	0.655
750	1	77	80	74	69	65	61	58	54	72	3765	1.520	107.268
	2	79	81	75	70	67	63	58	52	73	6865	1.144	24.282
	3	80	82	76	71	67	63	59	52	74	8031	0.774	11.998
	4	81	83	77	72	69	65	60	53	75	9154	0.420	5.010
	5	82	84	79	74	70	67	63	56	77	10372	0.071	0.655
1000	1	80	88	82	76	73	69	66	62	80	5020	2.703	107.268
	2	82	89	83	77	75	70	67	61	81	9154	2.035	24.282
	3	83	91	84	78	76	71	68	61	82	10709	1.376	11.998
	4	84	92	86	79	77	72	69	62	83	12205	0.746	5.010
	5	84	93	88	81	79	74	72	65	85	13829	0.125	0.655
1500	1	89	92	95	89	84	80	76	73	91	7530	6.081	107.268
	2	90	94	96	90	85	82	78	73	92	13730	4.578	24.282
	3	91	95	97	91	86	82	78	74	93	16063	3.096	11.998
	4	92	96	99	92	87	84	80	75	94	18307	1.679	5.010
	5	93	97	99	94	89	86	82	78	96	20743	0.282	0.655
2291	1	98	98	105	101	96	92	88	84	102	11500	14.186	107.268
	2	99	99	106	103	96	93	89	85	103	20971	10.679	24.282
	3	101	101	108	104	97	94	90	86	104	24534	7.221	11.998
	4	101	101	109	105	99	95	91	88	106	27961	3.917	5.010
	5	102	102	109	107	100	97	93	90	107	31682	0.658	0.655

Size 8833													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
325	1	63	56	51	48	45	41	35	30	50	3250	0.320	30.336
	2	64	56	52	50	46	42	35	30	51	4326	0.250	13.352
	3	65	58	53	52	47	44	36	30	53	4959	0.173	7.042
	4	67	59	55	53	48	45	38	32	54	5550	0.095	3.093
	5	68	61	56	55	50	47	40	35	56	6092	0.016	0.440
500	1	75	69	63	59	56	53	48	42	62	5000	0.758	30.336
	2	76	70	64	61	58	55	48	41	63	6656	0.592	13.352
	3	78	71	65	63	59	56	49	41	65	7630	0.410	7.042
	4	79	73	66	64	60	57	51	43	66	8539	0.225	3.093
	5	80	74	68	66	61	59	53	47	68	9372	0.039	0.440
700	1	77	80	73	68	65	62	58	52	71	7000	1.486	30.336
	2	78	81	74	69	66	63	59	52	72	9318	1.159	13.352
	3	80	83	75	71	68	65	60	52	74	10682	0.804	7.042
	4	82	84	77	72	69	66	62	54	75	11955	0.442	3.093
	5	83	85	78	74	71	67	64	57	77	13121	0.076	0.440
1000	1	80	90	84	78	74	71	68	63	81	10000	3.034	30.336
	2	82	91	85	79	76	73	70	63	82	13312	2.366	13.352
	3	84	93	86	80	78	74	71	64	84	15260	1.640	7.042
	4	86	94	88	81	79	75	73	66	85	17078	0.902	3.093
	5	87	95	89	83	81	76	74	68	87	18745	0.155	0.440
1400	1	88	92	95	88	83	80	77	73	91	14000	5.946	30.336
	2	89	93	96	89	84	81	78	74	92	18636	4.637	13.352
	3	91	95	98	90	86	83	80	75	93	21364	3.214	7.042
	4	93	97	99	92	87	84	81	77	95	23909	1.768	3.093
	5	95	98	100	93	89	86	82	79	96	26242	0.303	0.440
2083	1	96	96	105	101	94	90	87	84	101	20830	13.162	30.336
	2	98	98	106	101	95	92	89	86	103	27728	10.266	13.352
	3	100	100	108	103	96	94	90	87	104	31786	7.115	7.042
	4	102	102	110	104	98	95	91	89	106	35573	3.913	3.093
	5	103	103	111	106	99	97	93	90	107	39045	0.671	0.440

Size 8837													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
300	1	67	55	51	47	45	42	40	37	51	4322	0.331	17.744
	2	68	56	52	49	46	43	39	36	52	5279	0.276	9.893
	3	69	58	54	50	47	43	39	36	53	6226	0.186	4.788
	4	71	60	56	53	49	45	39	37	55	6990	0.099	2.035
	5	71	61	57	56	52	47	42	39	57	7746	0.018	0.292
450	1	82	69	62	58	55	52	50	47	62	6482	0.746	17.744
	2	84	70	63	59	56	53	50	46	63	7919	0.620	9.893
	3	84	72	65	61	57	54	49	45	64	9339	0.418	4.788
	4	85	73	66	64	59	55	50	45	66	10485	0.224	2.035
	5	85	75	68	66	62	58	53	47	68	11619	0.039	0.292
650	1	81	87	73	68	65	62	59	57	73	9363	1.556	17.744
	2	82	88	74	69	66	63	60	56	74	11438	1.294	9.893
	3	83	88	76	71	67	63	60	55	75	13489	0.871	4.788
	4	85	89	77	73	70	66	61	56	77	15146	0.467	2.035
	5	86	90	79	75	73	68	64	58	79	16783	0.082	0.292
900	1	82	97	84	77	73	70	68	65	84	12965	2.982	17.744
	2	83	98	85	78	75	71	68	65	85	15837	2.481	9.893
	3	85	98	87	80	76	72	69	64	85	18677	1.670	4.788
	4	88	100	88	82	79	75	70	65	87	20971	0.895	2.035
	5	89	100	90	83	81	77	73	68	88	23238	0.158	0.292
1300	1	90	96	102	88	83	80	77	74	94	18727	6.223	17.744
	2	91	97	103	89	84	81	78	75	95	22876	5.177	9.893
	3	93	98	103	91	86	82	79	75	96	26978	3.485	4.788
	4	96	100	104	93	88	85	81	76	98	30291	1.867	2.035
	5	97	101	105	94	90	88	83	79	99	33567	0.329	0.292
1855	1	98	98	112	101	93	89	86	83	105	26722	12.670	17.744
	2	99	99	113	102	94	90	87	84	106	32643	10.542	9.893
	3	101	101	113	103	96	92	88	85	107	38496	7.096	4.788
	4	103	103	115	105	97	94	90	86	108	43223	3.802	2.035
	5	105	105	115	106	99	97	93	89	109	47897	0.670	0.292

Size 8840													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
250	1	62	53	49	46	43	40	38	35	49	4829	0.275	11.783
	2	63	54	50	47	44	41	37	35	50	5899	0.225	6.475
	3	64	56	52	48	45	42	37	35	51	6957	0.146	3.022
	4	66	57	54	51	48	43	38	35	53	7811	0.071	1.160
	5	67	59	56	54	50	46	40	37	55	8656	0.000	0.000
400	1	84	67	61	58	55	53	50	47	62	7727	0.704	11.783
	2	85	68	63	59	56	53	49	46	63	9439	0.577	6.475
	3	85	70	64	61	57	53	49	45	64	11131	0.374	3.022
	4	86	72	66	63	59	55	50	44	66	12498	0.181	1.160
	5	86	73	68	66	62	58	52	46	68	13850	0.000	0.000
500	1	85	77	68	64	61	58	56	53	68	9659	1.099	11.783
	2	86	78	69	65	62	59	55	52	69	11799	0.901	6.475
	3	87	79	71	67	63	59	55	51	70	13914	0.585	3.022
	4	88	81	73	69	65	61	56	51	72	15623	0.283	1.160
	5	88	82	74	72	68	64	59	53	74	17312	0.000	0.000
750	1	83	96	80	75	71	68	66	63	82	14488	2.473	11.783
	2	85	97	81	76	73	69	66	63	83	17698	2.028	6.475
	3	86	97	83	77	74	70	67	62	84	20871	1.316	3.022
	4	89	98	85	79	77	72	68	63	85	23434	0.637	1.160
	5	90	99	86	82	79	75	71	65	86	25968	0.000	0.000
1100	1	89	99	97	86	82	78	75	73	91	21249	5.320	11.783
	2	91	101	98	87	83	79	76	73	92	25957	4.362	6.475
	3	93	101	99	89	84	81	77	73	93	30611	2.832	3.022
	4	95	103	100	90	87	83	79	74	95	34370	1.371	1.160
	5	97	104	101	92	89	86	82	77	96	38087	0.000	0.000
1682	1	98	98	116	99	93	90	86	84	108	32491	12.440	11.783
	2	100	100	117	100	94	91	87	84	109	39690	10.200	6.475
	3	102	102	116	102	96	92	88	85	109	46807	6.621	3.022
	4	104	104	118	103	98	95	91	87	110	52556	3.205	1.160
	5	106	106	118	105	99	98	94	89	110	58238	0.000	0.000

Size 8845													
N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
240	1	63	55	51	47	45	43	40	37	51	6265	0.327	8.333
	2	64	56	52	49	46	43	39	37	52	7653	0.280	4.780
	3	65	58	54	50	47	44	39	37	53	9026	0.201	2.469
	4	67	59	56	53	50	45	40	37	55	10134	0.126	1.223
	5	68	61	58	56	52	48	42	39	57	11230	0.055	0.434
350	1	81	66	61	58	54	52	49	47	61	9137	0.696	8.333
	2	82	67	62	59	55	52	49	45	62	11161	0.595	4.780
	3	82	69	64	60	56	53	48	44	63	13162	0.428	2.469
	4	83	71	66	63	59	54	49	43	65	14779	0.267	1.223
	5	84	72	68	66	61	57	51	45	67	16377	0.116	0.434
500	1	88	80	71	67	64	61	59	56	71	13053	1.420	8.333
	2	89	81	72	68	65	62	58	55	72	15945	1.215	4.780
	3	90	82	74	70	66	63	58	54	73	18804	0.873	2.469
	4	91	84	76	72	68	64	59	54	75	21113	0.545	1.223
	5	91	85	77	75	71	67	62	56	77	23396	0.238	0.434
750	1	86	99	83	78	75	71	69	66	85	19579	3.194	8.333
	2	88	100	84	79	76	72	69	66	86	23917	2.734	4.780
	3	89	100	86	80	77	73	70	65	87	28205	1.964	2.469
	4	92	102	88	83	80	75	71	66	88	31669	1.226	1.223
	5	93	102	89	85	83	78	74	68	89	35093	0.534	0.434
1050	1	91	103	98	87	83	80	77	75	93	27410	6.261	8.333
	2	93	104	98	89	85	81	78	75	94	33484	5.359	4.780
	3	95	104	100	90	86	82	79	75	95	39487	3.850	2.469
	4	97	106	101	92	89	85	81	76	97	44337	2.404	1.223
	5	99	106	102	94	91	88	83	78	98	49131	1.047	0.434
1521	1	99	101	115	99	93	90	87	84	107	39706	13.137	8.333
	2	101	103	116	100	95	91	88	85	108	48503	11.245	4.780
	3	103	104	116	102	96	92	89	85	108	57200	8.078	2.469
	4	105	107	117	103	98	95	91	87	110	64225	5.044	1.223
	5	107	108	117	105	100	98	94	89	110	71169	2.198	0.434

Size 8849													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
220	1	62	55	52	48	46	43	41	38	51	7668	0.294	5.002
	2	63	56	53	49	47	44	40	37	52	9366	0.227	2.585
	3	64	58	54	51	48	44	40	37	53	11046	0.124	1.013
	4	66	59	56	53	50	46	40	38	55	12402	0.025	0.165
	5	67	61	58	56	53	48	43	40	58	13743	0.000	0.000
320	1	79	66	61	58	55	53	50	47	62	11153	0.622	5.002
	2	80	67	63	59	56	53	49	46	62	13624	0.480	2.585
	3	81	69	64	61	57	53	49	44	63	16067	0.261	1.013
	4	82	71	66	63	59	54	49	44	65	18040	0.054	0.165
	5	83	73	69	66	62	57	51	46	68	19990	0.000	0.000
450	1	91	78	71	67	64	61	59	56	71	15684	1.230	5.002
	2	93	79	72	68	65	62	59	55	72	19159	0.949	2.585
	3	93	81	73	70	66	63	58	54	73	22594	0.517	1.013
	4	94	82	75	72	68	64	59	54	75	25369	0.106	0.165
	5	94	84	77	75	71	67	61	56	77	28112	0.000	0.000
650	1	90	95	82	77	74	71	68	66	82	22654	2.567	5.002
	2	91	96	83	78	75	72	68	65	83	27673	1.979	2.585
	3	92	97	85	80	76	72	69	64	84	32636	1.079	1.013
	4	94	98	86	82	79	74	70	65	86	36644	0.222	0.165
	5	95	99	88	84	81	77	72	67	88	40606	0.000	0.000
950	1	92	106	96	87	84	80	78	75	93	33110	5.483	5.002
	2	93	107	97	89	85	81	79	75	94	40446	4.228	2.585
	3	95	107	98	90	86	83	79	75	95	47698	2.304	1.013
	4	98	109	100	92	89	85	81	76	97	53556	0.473	0.165
	5	99	109	101	94	91	88	84	78	98	59347	0.000	0.000
1381	1	100	104	113	99	94	90	87	85	106	48131	11.587	5.002
	2	101	106	114	100	95	91	88	85	107	58796	8.935	2.585
	3	104	107	115	102	96	93	89	85	107	69338	4.869	1.013
	4	106	109	116	103	98	95	91	87	109	77853	1.000	0.165
	5	108	111	116	105	101	98	94	89	110	86271	0.000	0.000

Size 8854													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
200	1	67	59	55	51	50	48	45	42	55	11955	0.280	0.261
	2	68	60	55	51	50	48	44	41	55	13053	0.232	0.209
	3	69	61	57	52	51	49	45	42	56	14297	0.174	0.146
	4	69	62	58	54	52	51	47	44	57	15751	0.112	0.078
	5	71	64	60	55	54	52	49	46	59	17213	0.060	0.020
300	1	83	71	65	62	58	58	55	52	66	17932	0.631	0.587
	2	84	72	65	62	58	58	54	50	66	19580	0.522	0.470
	3	85	73	67	63	59	59	55	51	67	21446	0.391	0.329
	4	85	74	68	65	60	61	57	53	68	23627	0.252	0.176
	5	86	76	70	66	62	62	59	56	70	25819	0.135	0.045
400	1	88	82	74	70	66	65	63	60	73	23910	1.122	1.044
	2	89	83	74	70	66	65	62	58	74	26107	0.928	0.835
	3	90	84	76	71	67	66	63	59	75	28595	0.696	0.585
	4	90	85	77	73	68	67	65	61	76	31502	0.448	0.313
	5	91	86	79	74	70	69	67	64	78	34426	0.241	0.079
600	1	94	98	86	80	77	73	73	70	86	35864	2.524	2.349
	2	95	99	87	80	77	73	73	69	86	39160	2.088	1.879
	3	96	100	88	82	78	74	74	70	87	42892	1.566	1.315
	4	97	100	89	83	80	75	76	72	88	47254	1.009	0.705
	5	98	101	91	85	81	77	77	74	89	51639	0.542	0.179
900	1	102	104	102	92	88	84	82	81	97	53796	5.679	5.285
	2	103	105	103	93	88	84	82	80	97	58740	4.698	4.228
	3	104	106	104	94	89	85	83	81	98	64338	3.523	2.960
	4	105	107	104	95	91	87	85	83	99	70880	2.269	1.585
	5	106	108	106	97	92	88	86	85	101	77458	1.218	0.402
1248	1	109	109	114	102	96	93	89	89	107	74598	10.920	10.162
	2	110	110	115	103	96	93	89	89	108	81453	9.033	8.130
	3	111	111	116	104	98	94	90	90	109	89215	6.774	5.691
	4	112	112	116	105	99	96	91	92	110	98288	4.364	3.049
	5	113	113	117	107	101	97	93	93	111	107409	2.343	0.772

Size 8860													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
180	1	66	59	55	51	50	48	45	42	55	14653	0.279	0.266
	2	67	60	55	51	50	48	44	41	55	15999	0.231	0.215
	3	68	61	57	52	51	49	45	42	56	17524	0.173	0.154
	4	69	62	58	54	52	51	47	44	58	19306	0.112	0.088
	5	70	64	60	55	54	52	49	46	59	21098	0.060	0.032
250	1	79	69	64	60	57	57	54	51	64	20351	0.538	0.512
	2	80	69	64	60	57	56	52	48	64	22221	0.445	0.414
	3	81	71	65	61	58	57	53	49	65	24339	0.334	0.297
	4	81	72	67	63	60	59	55	51	66	26814	0.215	0.170
	5	82	74	68	64	61	61	58	55	68	29302	0.116	0.062
350	1	89	80	73	69	66	65	62	59	73	28492	1.055	1.004
	2	90	81	73	69	66	65	62	58	73	31110	0.873	0.812
	3	91	82	75	71	67	66	63	59	74	34075	0.655	0.582
	4	91	83	76	72	68	68	65	61	75	37540	0.422	0.333
	5	92	85	78	74	70	69	66	63	77	41023	0.226	0.121
475	1	93	92	82	77	74	71	70	67	81	38667	1.944	1.850
	2	94	93	83	77	74	71	70	66	82	42221	1.608	1.496
	3	95	94	84	79	75	72	71	67	83	46244	1.206	1.071
	4	96	94	85	80	77	74	73	69	84	50947	0.777	0.614
	5	97	96	87	82	78	75	74	71	86	55675	0.417	0.222
650	1	98	103	92	86	82	79	78	75	91	52913	3.639	3.463
	2	99	104	93	86	82	79	78	75	91	57776	3.011	2.801
	3	100	105	94	88	84	80	79	76	93	63281	2.258	2.006
	4	101	105	95	89	85	81	81	78	93	69717	1.454	1.149
	5	102	106	97	91	87	83	82	79	95	76186	0.781	0.416
896	1	105	108	105	95	91	87	85	84	100	72939	6.916	6.581
	2	106	109	106	96	91	87	85	83	100	79641	5.721	5.322
	3	107	110	107	97	92	88	86	84	101	87231	4.290	3.812
	4	108	110	107	98	94	90	88	86	102	96102	2.764	2.183
	5	109	111	109	100	95	91	89	88	104	105020	1.484	0.790

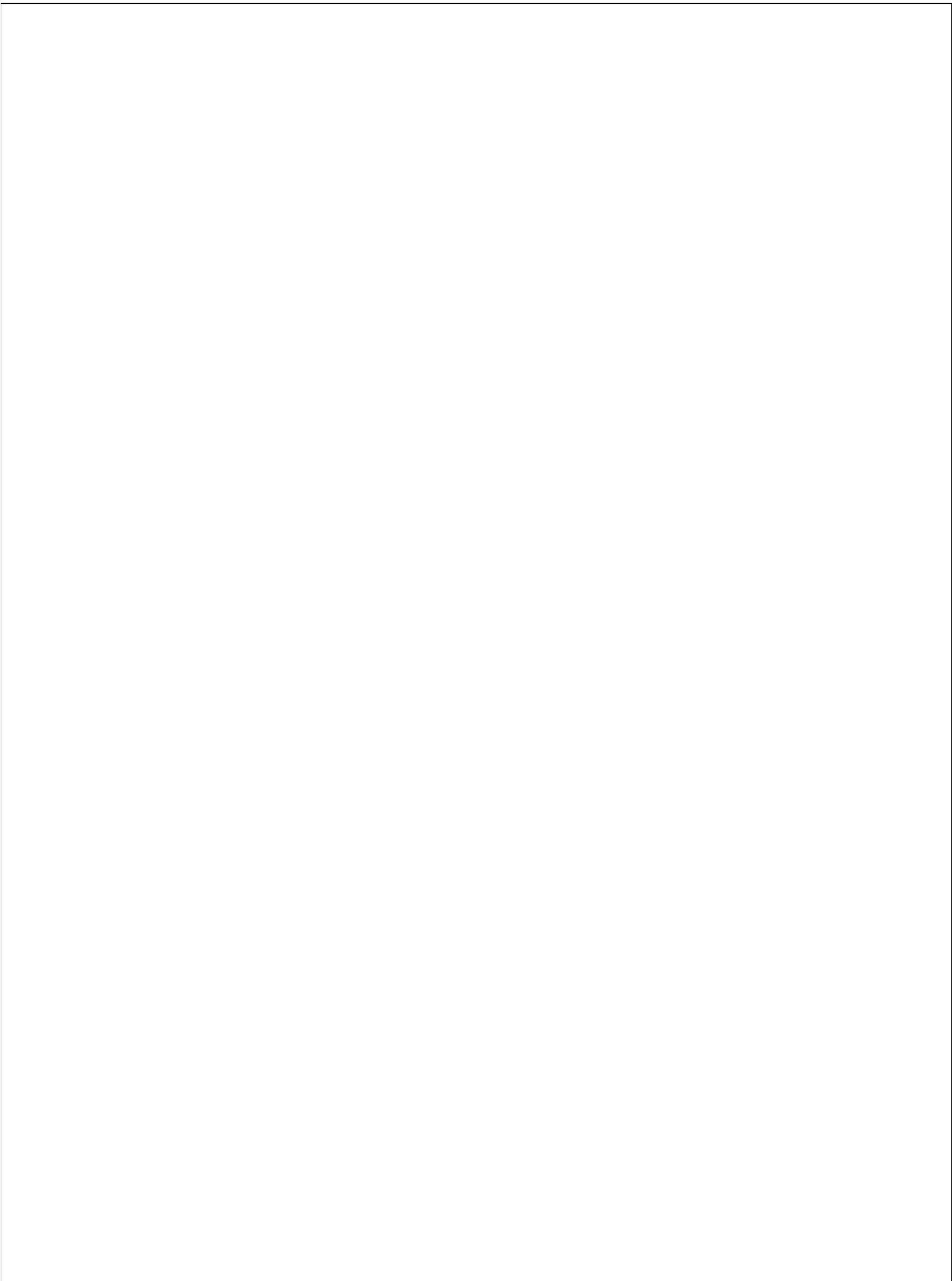
Size 8866													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
160	1	64	58	55	51	51	48	45	42	55	17336	0.267	0.248
	2	65	59	55	51	51	48	44	41	55	18929	0.221	0.198
	3	66	60	57	52	52	49	45	42	56	20733	0.166	0.139
	4	67	61	58	54	53	51	47	44	58	22841	0.107	0.074
	5	69	63	60	55	55	52	49	46	59	24961	0.057	0.018
220	1	77	68	63	60	58	56	53	50	63	23837	0.504	0.469
	2	78	68	63	60	58	56	52	48	63	26027	0.417	0.375
	3	79	70	65	61	59	57	53	49	64	28508	0.313	0.262
	4	79	71	66	62	60	59	55	51	66	31407	0.202	0.140
	5	81	73	68	64	62	60	57	54	67	34321	0.108	0.034
300	1	89	77	71	68	64	64	61	58	72	32505	0.938	0.872
	2	90	78	71	68	64	64	60	56	72	35492	0.776	0.697
	3	91	79	73	69	65	65	61	57	73	38874	0.582	0.487
	4	91	80	74	71	66	67	63	59	74	42828	0.375	0.260
	5	92	82	76	72	68	68	65	62	76	46802	0.201	0.064
420	1	94	90	81	77	73	72	70	67	81	45507	1.839	1.708
	2	95	91	82	77	73	72	69	65	81	49689	1.521	1.366
	3	96	92	83	78	74	73	70	66	82	54424	1.141	0.954
	4	97	93	84	80	76	74	72	68	83	59959	0.735	0.509
	5	98	94	86	81	77	76	74	71	85	65523	0.394	0.125
570	1	99	102	91	85	82	78	78	75	90	61759	3.386	3.147
	2	100	103	91	85	82	78	78	74	90	67435	2.801	2.515
	3	101	104	93	87	83	79	79	75	92	73861	2.101	1.758
	4	102	104	94	88	85	80	81	77	92	81372	1.353	0.937
	5	103	105	96	90	86	82	82	79	94	88924	0.727	0.229
814	1	106	109	104	95	91	88	86	84	100	88197	6.906	6.417
	2	107	110	105	96	91	88	86	84	100	96301	5.713	5.130
	3	108	111	106	97	93	89	87	85	101	105479	4.284	3.585
	4	109	111	106	98	94	90	89	87	102	116205	2.760	1.911
	5	110	112	108	100	96	92	90	88	104	126989	1.482	0.468

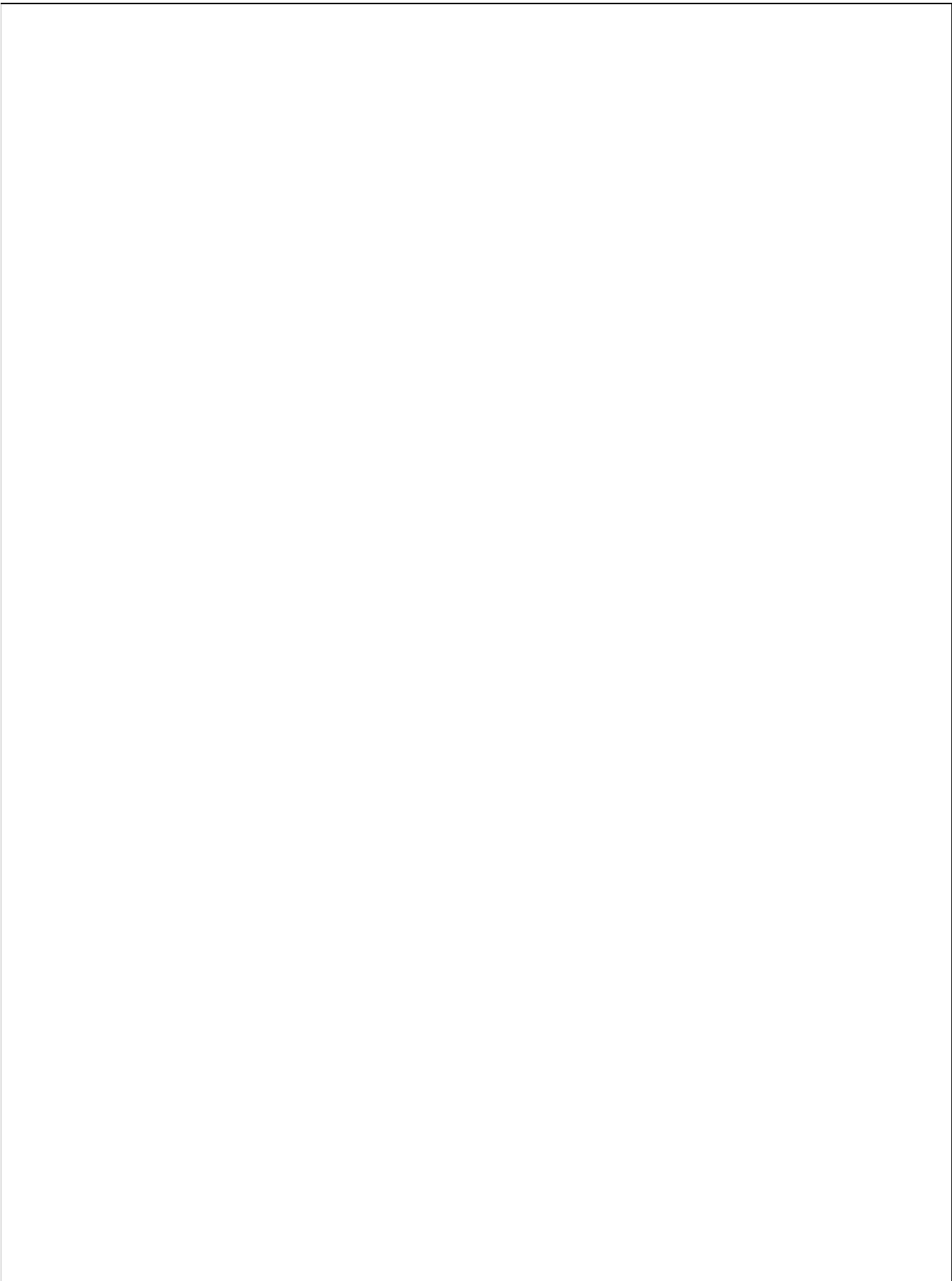
Size 8873													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
150	1	65	59	56	52	52	49	46	43	57	21992	0.287	0.267
	2	66	59	56	52	52	48	45	42	56	24012	0.237	0.213
	3	67	61	57	53	53	49	46	43	57	26301	0.178	0.149
	4	68	62	59	54	55	51	48	45	59	28975	0.115	0.079
	5	70	64	60	56	56	53	50	47	61	31664	0.062	0.019
200	1	76	68	64	60	59	57	54	51	64	29322	0.510	0.474
	2	77	68	64	60	59	56	52	48	64	32017	0.422	0.379
	3	78	70	65	61	60	57	53	49	65	35068	0.316	0.265
	4	79	71	67	62	61	59	55	51	66	38634	0.204	0.141
	5	80	73	68	64	63	61	58	55	68	42219	0.109	0.035
300	1	92	80	74	71	67	67	64	61	75	43983	1.148	1.066
	2	93	81	74	71	67	67	63	59	75	48025	0.949	0.852
	3	94	82	76	72	68	68	64	60	76	52602	0.712	0.596
	4	94	83	77	74	69	70	66	62	77	57951	0.459	0.318
	5	95	85	79	75	71	71	68	65	79	63329	0.246	0.078
400	1	97	91	83	79	75	74	72	69	82	58644	2.040	1.896
	2	98	92	83	79	75	74	71	67	83	64033	1.688	1.515
	3	99	93	85	80	76	75	72	68	84	70135	1.266	1.059
	4	99	94	86	82	78	76	74	70	85	77268	0.815	0.564
	5	100	95	88	83	79	78	76	73	87	84438	0.438	0.138
550	1	101	104	93	87	84	81	80	77	92	80636	3.857	3.584
	2	102	105	93	87	84	81	80	76	92	88046	3.191	2.865
	3	103	106	95	89	85	82	81	77	94	96436	2.393	2.002
	4	104	106	96	90	87	83	83	79	94	106243	1.541	1.067
	5	105	107	98	92	88	85	84	81	96	116103	0.828	0.261
736	1	107	111	103	95	92	88	87	85	100	107905	6.907	6.418
	2	108	112	104	96	92	88	87	84	101	117821	5.714	5.131
	3	109	113	105	97	93	89	88	85	102	129049	4.285	3.585
	4	110	113	106	98	95	90	90	87	103	142173	2.760	1.911
	5	111	114	107	100	96	92	91	89	104	155366	1.482	0.468

Size 8881													
N (rpm)	System Curve	In let Sound Power, Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
130	1	64	59	55	52	52	49	46	43	56	25797	0.264	0.245
	2	64	59	55	52	52	48	45	42	56	28167	0.218	0.196
	3	66	61	56	53	53	49	46	43	57	30852	0.164	0.137
	4	67	62	58	54	55	51	48	45	59	33989	0.105	0.073
	5	69	64	59	56	56	53	50	47	60	37143	0.057	0.018
180	1	75	68	64	60	59	57	54	51	64	35719	0.506	0.470
	2	76	68	64	60	59	56	52	48	64	39001	0.418	0.375
	3	77	70	65	61	60	57	53	49	65	42718	0.314	0.262
	4	78	71	67	62	62	59	55	51	67	47062	0.202	0.140
	5	79	73	68	64	63	61	58	55	68	51429	0.108	0.034
250	1	88	78	73	69	67	66	63	60	73	49609	0.975	0.906
	2	89	78	73	69	67	65	61	57	73	54168	0.807	0.724
	3	90	80	74	70	68	66	62	58	74	59330	0.605	0.506
	4	90	81	76	72	69	68	64	60	75	65364	0.390	0.270
	5	91	83	77	73	71	70	67	64	77	71430	0.209	0.066
340	1	98	88	81	78	74	73	71	68	81	67469	1.804	1.676
	2	99	89	81	78	74	73	70	66	81	73669	1.492	1.340
	3	100	90	83	79	75	74	71	67	82	80689	1.119	0.936
	4	100	91	84	81	76	76	73	69	84	88895	0.721	0.499
	5	101	93	86	82	78	77	75	72	85	97144	0.387	0.122
460	1	102	100	90	85	82	80	78	75	89	91281	3.301	3.068
	2	103	101	91	85	82	80	78	74	90	99669	2.731	2.452
	3	104	102	92	87	83	81	79	75	91	109168	2.048	1.714
	4	104	102	93	88	85	82	81	77	92	120269	1.319	0.913
	5	105	103	95	90	86	84	82	79	94	131430	0.708	0.223
665	1	108	112	102	95	92	88	88	85	100	131961	6.900	6.411
	2	109	113	103	95	92	88	88	84	101	144087	5.708	5.125
	3	110	114	104	97	93	89	89	85	102	157818	4.280	3.581
	4	111	114	105	98	95	90	91	87	103	173868	2.757	1.908
	5	112	115	107	100	96	92	92	89	104	190003	1.480	0.467

Size 8889

N (rpm)	System Curve	In let Sound Power , Lwi (dB)								LwiA (dB)	CFM	System Curve Data	
		1	2	3	4	5	6	7	8			SP	K
120	1	64	59	56	54	52	49	46	43	57	31882	0.273	0.254
	2	65	59	56	54	52	48	45	42	57	34812	0.226	0.203
	3	66	61	57	55	53	49	46	43	58	38129	0.169	0.142
	4	67	62	59	56	55	51	48	45	59	42007	0.109	0.076
	5	69	64	60	58	56	53	50	47	61	45905	0.059	0.018
180	1	78	71	67	63	62	60	57	54	67	47823	0.614	0.571
	2	79	71	67	63	62	59	55	51	67	52218	0.508	0.456
	3	80	73	68	64	63	60	56	52	68	57194	0.381	0.319
	4	81	74	70	65	65	62	58	54	70	63010	0.245	0.170
	5	82	76	71	67	66	64	61	58	71	68858	0.132	0.042
230	1	87	78	73	70	68	66	63	60	73	61108	1.003	0.932
	2	88	79	73	70	68	66	62	58	73	66723	0.829	0.745
	3	89	80	75	71	69	67	63	59	74	73081	0.622	0.520
	4	90	81	76	73	70	69	65	61	76	80513	0.401	0.277
	5	91	83	78	74	72	70	67	64	78	87985	0.215	0.068
310	1	99	87	81	78	74	74	71	68	82	82362	1.821	1.692
	2	100	88	81	78	74	74	70	66	82	89931	1.507	1.353
	3	101	89	83	79	75	75	71	67	83	98501	1.130	0.945
	4	101	90	84	81	76	77	73	69	84	108518	0.728	0.504
	5	102	92	86	82	78	78	75	72	86	118588	0.391	0.123
430	1	104	100	91	87	83	81	80	77	90	114245	3.504	3.256
	2	105	101	92	87	83	81	79	75	91	124743	2.899	2.603
	3	106	102	93	88	84	82	80	76	92	136630	2.174	1.819
	4	106	102	94	90	86	84	82	78	93	150525	1.400	0.969
	5	107	104	96	91	87	85	84	81	95	164494	0.752	0.237
604	1	109	113	101	96	92	89	89	86	101	160474	6.915	6.425
	2	110	114	102	96	92	89	88	84	101	175220	5.720	5.136
	3	111	115	103	97	93	90	89	85	103	191918	4.290	3.589
	4	112	115	104	99	95	91	91	87	103	211435	2.763	1.913
	5	113	116	106	100	96	93	93	90	105	231056	1.484	0.468







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