(a)		Ω^* (rpm)				(b)		Ω^* (rpm)			
	600	750	900	1500	1800		600	750	900	1500	1800
150	3.27	3.59	3.46	3.41	3.54		2.325	2.230	1.979	1.509	1.437
200	3.12	3.27	3.24	3.25	3.28		2.214	2.032	1.853	1.438	1.332
220	3.10	3.22	3.22	3.29	3.37		2.199	1.997	1.841	1.455	1.366
240	3.09	3.23	3.29	3.47	3.54		2.191	2.007	1.882	1.537	1.437
260	3.13	3.35	3.55	3.66	3.93		2.224	2.080	2.029	1.621	1.594
280	3.26	3.52	3.46	3.93	4.53		2.310	2.186	1.983	1.739	1.837
x 300	3.49	3.93	3.94	4.22	5.02		2.478	2.439	2.257	1.871	2.034
320	3.89	4.34	4.47	4.86	5.77		2.758	2.693	2.560	2.154	2.339
340	5.00	5.64	5.92	5.92	7.27		3.542	3.503	3.388	2.622	2.948
360	7.91	7.48	8.22	6.96	8.43		5.613	4.647	4.703	3.084	3.422
380	10.00	9.65	9.90	8.64	9.61		7.088	5.991	5.665	3.827	3.901
400	11.20	10.67	11.06	9.82	10.80		7.942	6.623	6.328	4.351	4.389
440	12.34	11.65	12.14	10.98	12.00		8.745	7.231	6.942	4.869	4.875

(c)		Ω^* (rpm)				(d)		Ω^* (rpm)			
	600	750	900	1500	1800		600	750	900	1500	1800
150	0.882	0.794	0.710	0.561	0.502		0.390	0.367	0.327	0.250	0.235
200	0.879	0.775	0.709	0.559	0.498		0.369	0.340	0.309	0.240	0.223
220	0.881	0.773	0.714	0.566	0.501		0.366	0.334	0.307	0.242	0.228
240	0.891	0.775	0.726	0.578	0.514		0.363	0.336	0.310	0.251	0.237
260	0.901	0.790	0.745	0.590	0.537		0.367	0.343	0.329	0.262	0.258
280	0.926	0.803	0.743	0.606	0.571		0.376	0.356	0.325	0.278	0.290
x 300	0.961	0.833	0.777	0.624	0.603		0.396	0.388	0.358	0.297	0.319
320	1.002	0.866	0.820	0.661	0.649		0.434	0.419	0.403	0.333	0.359
340	1.116	0.970	0.993	0.715	0.737		0.528	0.519	0.509	0.390	0.432
360	1.410	1.124	1.118	0.781	0.804		0.793	0.666	0.675	0.453	0.499
380	1.643	1.338	1.278	0.883	0.888		1.009	0.854	0.815	0.549	0.572
400	1.807	1.448	1.407	0.975	0.979		1.144	0.948	0.920	0.631	0.649
440	1.998	1.576	1.550	1.083	1.083		1.286	1.049	1.025	0.716	0.731

Table 1: (a) 90% boundary layer thickness δ_{90} normalised by the viscous length scale δ_ν^*, (b) δ_{90}^*, (c) displacement thickness δ_1^* and (d) momentum thickness δ_2^* for different rotational rates Ω^*. The dimensional quantities with * in (b-d) are shown in millimetre.

We report the data corresponding to figure 2 in the paper as well as further quantities characterising the boundary layer in table 1. The displacement thickness δ_1 and momentum thickness δ_2^* were calculated as

$$\delta_1(x;\Omega^*) = \int_0^{\delta_{90}} V(x,z;\Omega^*)\,\mathrm{d}z,$$

$$\delta_2(x;\Omega^*) = \int_0^{\delta_{90}} \left[1 - V(x,z;\Omega^*)\right] V(x,z;\Omega^*)\,\mathrm{d}z,$$

where V is the measured mean azimuthal velocity component normalised by the local wall velocity V_w^* and δ_{90} is the z-position (normalised by δ_ν^*) where V becomes 0.1.