

Canopy density 0.025

Time-averaged streamwise velocity

<i>y/H</i>	2.16	2.01	1.89	1.78	1.67	1.56	1.44	1.33	1.22	1.11	1.00	0.89	0.78	0.67	0.56	0.44	0.33	0.25	0.17	0.11	0.06	0.00	-0.06	-0.14	-0.22	-0.33	-0.44	-0.56	-0.67	-0.78	-0.89	-1.00	-1.11	-1.22	-1.33	-1.44	-1.56	-1.67	-1.78	-1.89	-2.00				
0.048	1.793	1.726	1.243	0.964	0.685	0.720	0.756	0.798	1.061	1.062	0.937	0.814	0.720	0.588	0.597	1.090	1.184	1.245	1.305	1.830	2.260	3.500	4.739	5.707	5.401	5.507	5.497	5.283	3.771	4.540	5.528	5.669	6.060	6.423	6.533	6.672	6.727	6.697	6.545	6.392					
0.113	1.661	2.013	1.401	1.230	1.060	1.200	1.340	1.147	1.437	1.238	1.533	1.359	1.126	1.271	1.416	1.671	1.923	1.923	1.920	2.290	3.361	4.190	6.248	6.075	5.994	6.113	6.230	6.701	6.931	7.409	7.569	7.531	7.736	7.667	7.597	7.417	7.237	7.677	7.759	7.737	7.677	7.327			
0.178	2.330	1.585	1.413	1.238	1.565	1.778	1.708	1.601	1.797	1.708	1.591	1.574	1.794	1.239	2.484	2.356	2.230	2.997	3.850	4.718	5.584	5.767	6.167	6.486	6.393	6.007	6.517	6.724	7.141	7.805	8.047	8.217	8.196	8.714	8.827	8.607	8.546	8.207	8.767	8.778	8.777	8.777			
0.243	2.631	1.631	1.431	1.331	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417	1.417							
0.307	3.104	3.915	2.788	2.789	2.791	2.858	2.906	2.946	3.491	3.694	3.580	3.326	3.729	3.860	3.991	4.472	4.882	4.910	4.939	5.557	6.082	6.369	6.657	7.638	6.909	7.193	7.378	7.563	8.723	8.149	8.413	8.668	8.765	8.831	8.738	8.637	8.423	8.228	8.377	8.377	8.377	8.377			
0.373	4.811	6.311	5.397	4.050	3.848	3.647	3.918	4.188	4.130	4.325	4.466	4.161	4.624	5.054	5.065	5.073	5.434	5.794	6.013	6.123	6.545	6.720	6.848	6.976	7.212	7.448	7.580	7.730	7.755	7.814	8.182	8.340	8.787	8.827	8.676	8.446	8.285	8.481	8.677	8.777	8.777	8.777			
0.408	6.835	6.354	5.474	4.686	4.347	4.873	3.793	4.084	4.326	4.466	4.161	5.228	5.399	5.807	4.889	5.525	5.748	5.819	5.829	6.710	6.510	6.684	6.857	7.245	7.380	7.464	7.553	7.599	7.646	7.697	7.732	7.755	7.805	7.840	8.088	8.913	8.989	9.005	8.821	8.564	8.308	8.551	8.777	8.777	8.777
0.481	7.557	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830	7.830									
0.553	8.707	8.434	7.493	7.130	6.768	6.745	6.772	6.525	6.761	7.674	6.667	8.824	7.205	7.278	7.378	7.550	7.753	7.940	8.120	8.125	8.313	8.730	8.428	8.476	8.476	8.447	8.584	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579	8.579
0.705	8.778	9.252	8.178	7.809	7.440	7.319	7.197	7.397	7.463	7.601	7.346	7.345	7.799	7.876	7.812	8.177	8.393	8.515	8.637	8.726	8.738	8.769	8.800	8.818	8.836	8.862	8.890	8.950	8.887	9.054	9.008	8.952	9.117	9.294	9.501	9.474	9.446	9.299	8.951	8.712	8.778				
0.778	9.590	9.869	8.784	8.281	7.778	7.727	7.691	7.961	7.933	7.608	7.814	8.313	8.398	8.484	8.653	8.821	8.982	9.413	9.326	9.234	9.258	9.274	9.216	9.275	9.417	9.597	9.507	9.446	9.299	9.054	8.908	8.757	8.597	8.387	8.235	9.013	8.791	8.906	8.576	8.334	8.174				

Time-averaged spanwise velocity

Time-averaged vertical velocity

Vertical stressors*

Vertical Address	$-(\tilde{w}^{(0)})_{j_1}$	$-(\tilde{w}^{(0)})_{j_2}$	$(\tilde{r}_m)_{j_1}$	$-(\tilde{w}^{(0)})_{j_3}$	$-(\tilde{w}^{(0)})_{j_4}$	$(\tilde{r}_m)_{j_5}$
0.048	0.0005846	0.00052357	0.0001376	0.0012557	0.0001255	0.0001255
0.113	0.0007912	0.00056592	0.0004226	0.0006773	0.0001133	0.0016286
0.189	0.0003391	0.00089897	0.0017545	0.119933	0.0005642	0.0094526
0.265	0.0004946	0.00185796	0.0036584	0.0268316	0.0008371	0.0262857
0.340	0.0001583	0.0032268	0.006399	0.0287787	0.0002002	0.028149
0.416	0.0006359	0.00211256	0.00121256	0.0260006	0.0002002	0.027892
0.481	0.0006539	0.0241667	0.006137	0.0254543	0.0010936	0.0410385
0.558	0.0004529	0.0254467	0.010329	0.0269346	0.0007781	0.0438265
0.633	0.0003436	0.0227946	0.006058	0.0239748	0.0006988	0.0398613
0.705	0.0005540	0.02414026	0.006137	0.0193340	0.0011998	0.0406393
0.779	0.0002369	0.0232949	0.000384	0.0233720	0.0003886	0.0231515
0.853	0.0002369	0.0232949	0.000384	0.0233720	0.0003886	0.0231515

*All stresses are divided by $(U_{H_2} - U_1)^2$

Lateral stresses*

γ/M	$\langle \bar{u}^{\alpha} u^{\beta} \rangle_d$	$\langle \bar{d}^{\alpha} d^{\beta} \rangle_d$	$\langle \bar{u}^{\alpha} \bar{v}^{\beta} \rangle_d$	$\langle \bar{v}^{\alpha} \bar{v}^{\beta} \rangle_d$
1.89	0.001223	0.021254	-0.010650	0.022477
1.67	0.001861	-0.005876	-0.009985	0.008857
1.46	0.002400	-0.004989	-0.008965	0.007665
1.33	0.000452	-0.011706	0.024265	-0.011343
1.22	-0.001206	-0.016445	0.011446	-0.013118
1.11	0.000615	-0.016583	0.004795	-0.017688
1.00	0.001543	-0.016653	0.002702	-0.017353
0.89	-0.001703	0.016804	0.004046	-0.017313
0.78	-0.001996	-0.019058	0.008822	-0.022199
0.66	0.001911	-0.022830	0.006000	0.023628
0.55	0.003020	-0.026349	0.006360	0.026655
0.47	-0.001767	-0.014744	0.010795	-0.006152
0.39	0.000838	0.002479	0.007644	0.008020
0.33	0.000555	0.002024	0.007840	0.011223
0.26	0.000628	0.003807	0.002430	0.018264
0.22	0.000498	0.004295	0.000504	0.012631
0.18	0.000577	0.002148	-0.000496	0.009966
0.16	0.000377	0.002748	0.000183	0.008221
0.13	0.001103	0.007173	0.005856	0.008139
0.09	0.001307	0.004164	0.021853	0.005288
0.07	0.000846	0.004164	0.021853	0.005288
-1.11	0.000869	0.001430	0.002150	0.004152
-1.22	0.001069	0.000633	0.011951	0.003845
-1.33	0.000754	0.000050	0.021001	0.029554
-1.46	0.000469	0.000213	0.000188	0.003933
-1.56	0.000469	0.000213	-0.000138	0.016183
-1.78	0.000128	0.000103	-0.001314	0.000705
-2.00	0.0039528	0.000391	-0.001974	0.003850

*All stresses are divided by $(U_{m_f} - U_1)^2$