



**CIRCUIT DATA**

**Length: 5,451 m**  
**Number of laps: 56**  
**Type of circuit: Light**  
**Number of brakings: 8**  
**Time spent under braking per lap: 15%**

**SHANGHAI INTERNATIONAL CIRCUIT (SHANGHAI)**

Despite the 14 turns, at the end of the straight stretch, both the one that subjects the drivers and cars to a violent deceleration of more than 4 Gs, the circuit is not very critical for brakes on the whole since the cars are normally quite aerodynamically charged. In fact, aerodynamic resistance contributes to the deceleration of the single-seaters, helping the braking action. However, the remaining braking sections are relatively light and free of any particular difficulties for braking systems.

**\* Turn 14 is considered the most demanding for the braking system.**

**01**

Initial speed	308	(Km/h)
Final speed	184	(Km/h)
Stopping distance	56	(m)
Braking time	0.78	(sec)
Maximum deceleration	4.5	(g)
Maximum pedal load	113	(Kg)
Braking power	1703	(Kw)

**06**

Initial speed	282	(Km/h)
Final speed	70	(Km/h)
Stopping distance	109	(m)
Braking time	2.21	(sec)
Maximum deceleration	3.96	(g)
Maximum pedal load	103	(Kg)
Braking power	1376	(Kw)

**09**

Initial speed	187	(Km/h)
Final speed	107	(Km/h)
Stopping distance	43	(m)
Braking time	1.01	(sec)
Maximum deceleration	2.34	(g)
Maximum pedal load	60	(Kg)
Braking power	526	(Kw)

**14\***

Initial speed	320	(Km/h)
Final speed	58	(Km/h)
Stopping distance	139	(m)
Braking time	2.84	(sec)
Maximum deceleration	4.77	(g)
Maximum pedal load	139	(Kg)
Braking power	1852	(Kw)

**03**

Initial speed	125	(Km/h)
Final speed	81	(Km/h)
Stopping distance	8	(m)
Braking time	0.26	(sec)
Maximum deceleration	1.64	(g)
Maximum pedal load	40	(Kg)
Braking power	248	(Kw)

**08**

Initial speed	244	(Km/h)
Final speed	179	(Km/h)
Stopping distance	40	(m)
Braking time	0.68	(sec)
Maximum deceleration	3.24	(g)
Maximum pedal load	83	(Kg)
Braking power	973	(Kw)

**11**

Initial speed	276	(Km/h)
Final speed	79	(Km/h)
Stopping distance	109	(m)
Braking time	2.29	(sec)
Maximum deceleration	3.83	(g)
Maximum pedal load	100	(Kg)
Braking power	1304	(Kw)

**16**

Initial speed	248	(Km/h)
Final speed	148	(Km/h)
Stopping distance	62	(m)
Braking time	1.15	(sec)
Maximum deceleration	3.31	(g)
Maximum pedal load	84	(Kg)
Braking power	1004	(Kw)