

**CIRCUIT DATA**

**Length: 5,554 m**  
**Number of laps: 55**  
**Type of circuit: Hard**  
**Number of brakings: 13**  
**Time spent under braking per lap: 18%**

**YAS MARINA CIRCUIT (YAS ISLAND)**

The same considerations which were made for the Bahrain circuit are also valid here, although the make up of the track leads to lower speeds and therefore less stress on the brakes. On this track the stress the braking system is subjected to is in any case quite significant and above average: here the drivers spend more than 18% of each lap with a foot on the brake. The 13 braking sections are rather demanding and the heated pace and torrid climate, with their correlated effects of increased grip and stress, can create thermal dissipation problems as well as problems with friction material wear.

**\* Turn 08 is considered the most demanding for the braking system.**

**01**

Initial speed	284	(Km/h)
Final speed	147	(Km/h)
Stopping distance	80	(m)
Braking time	1.40	(sec)
Maximum deceleration	4.08	(g)
Maximum pedal load	106	(Kg)
Braking power	1447	(Kw)

**06**

Initial speed	121	(Km/h)
Final speed	89	(Km/h)
Stopping distance	18	(m)
Braking time	0.60	(sec)
Maximum deceleration	1.66	(g)
Maximum pedal load	46	(Kg)
Braking power	269	(Kw)

**08\***

Initial speed	326	(Km/h)
Final speed	62	(Km/h)
Stopping distance	133	(m)
Braking time	2.58	(sec)
Maximum deceleration	5.09	(g)
Maximum pedal load	129	(Kg)
Braking power	2026	(Kw)

**13**

Initial speed	125	(Km/h)
Final speed	115	(Km/h)
Stopping distance	6	(m)
Braking time	0.17	(sec)
Maximum deceleration	1.70	(g)
Maximum pedal load	41	(Kg)
Braking power	261	(Kw)

**17**

Initial speed	253	(Km/h)
Final speed	91	(Km/h)
Stopping distance	86	(m)
Braking time	1.80	(sec)
Maximum deceleration	3.49	(g)
Maximum pedal load	89	(Kg)
Braking power	1113	(Kw)

**05**

Initial speed	290	(Km/h)
Final speed	116	(Km/h)
Stopping distance	84	(m)
Braking time	1.46	(sec)
Maximum deceleration	4.22	(g)
Maximum pedal load	109	(Kg)
Braking power	1521	(Kw)

**07**

Initial speed	150	(Km/h)
Final speed	62	(Km/h)
Stopping distance	38	(m)
Braking time	1.21	(sec)
Maximum deceleration	1.95	(g)
Maximum pedal load	47	(Kg)
Braking power	342	(Kw)

**11**

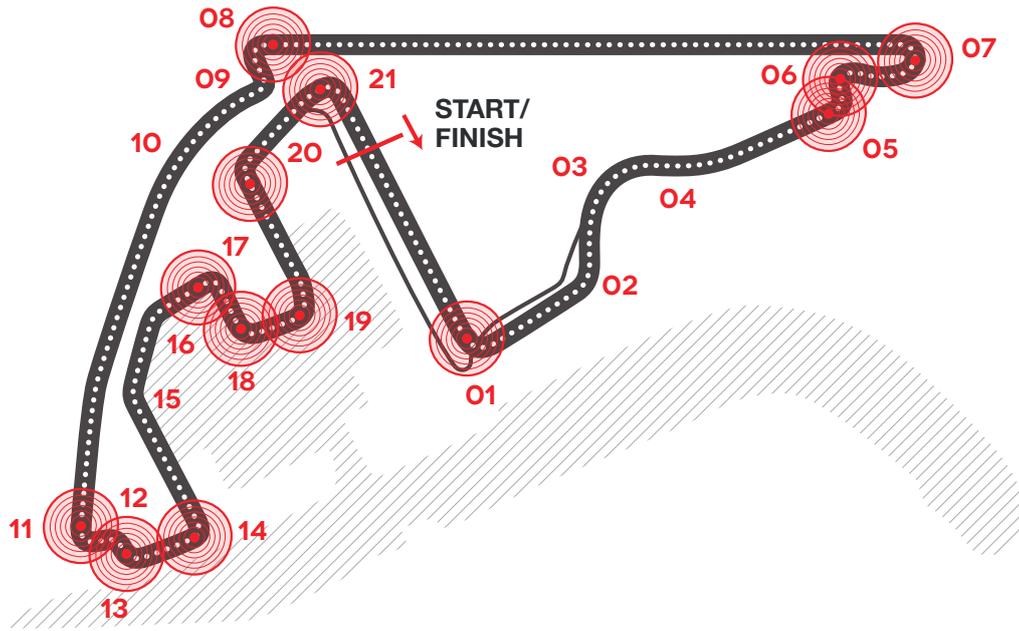
Initial speed	316	(Km/h)
Final speed	84	(Km/h)
Stopping distance	126	(m)
Braking time	2.45	(sec)
Maximum deceleration	4.82	(g)
Maximum pedal load	123	(Kg)
Braking power	1866	(Kw)

**14**

Initial speed	171	(Km/h)
Final speed	102	(Km/h)
Stopping distance	40	(m)
Braking time	1.07	(sec)
Maximum deceleration	2.21	(g)
Maximum pedal load	57	(Kg)
Braking power	466	(Kw)

**18**

Initial speed	142	(Km/h)
Final speed	109	(Km/h)
Stopping distance	16	(m)
Braking time	0.44	(sec)
Maximum deceleration	1.87	(g)
Maximum pedal load	45	(Kg)
Braking power	315	(Kw)



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**19**

Initial speed	158	(Km/h)
Final speed	117	(Km/h)
Stopping distance	24	(m)
Braking time	0.63	(sec)
Maximum deceleration	2.04	(g)
Maximum pedal load	51	(Kg)
Braking power	374	(Kw)

**20**

**20**

Initial speed	240	(Km/h)
Final speed	167	(Km/h)
Stopping distance	43	(m)
Braking time	0.78	(sec)
Maximum deceleration	3.24	(g)
Maximum pedal load	84	(Kg)
Braking power	971	(Kw)

Initial speed	225	(Km/h)
Final speed	123	(Km/h)
Stopping distance	63	(m)
Braking time	1.33	(sec)
Maximum deceleration	3.00	(g)
Maximum pedal load	78	(Kg)
Braking power	853	(Kw)