F1 | BRAKE CIRCUIT IDENTITY CARDS

## 2015 FORMULA 1 UBS CHINESE GRAND PRIX

## 10-12 APR 2015

SHANGHAI INTERNATIONAL CIRCUIT (SHANGHAI)


## CIRCUIT DATA

Length: 5,451 m
Number of laps: 56
Number of brake zones/lap: 8

## COMMENT

Despite the 14 turns, at the end of the straight stretch, both the one that subjects the drivers and cars to a violente decelerantion 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.

[^0]

| O6 |  |  |
| :--- | :--- | :--- |
| Initial speed | 288 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 69 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 133 | $(\mathrm{~m})$ |
| Braking time | 1.51 | $(\mathrm{sec})$ |
| Maximum deceleration | 4.0 | $(\mathrm{~g})$ |
| Maximum pedal load | 132 | $(\mathrm{Kg})$ |
| Braking power | 1496 | $(\mathrm{Kw})$ |

## 09

| Initial speed | 187 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Final speed | 97 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 72 | $(\mathrm{~m})$ |
| Braking time | 1.05 | $(\mathrm{sec})$ |
| Maximum deceleration | 2.1 | $(\mathrm{~g})$ |
| Maximum pedal load | 72 | $(\mathrm{Kg})$ |
| Braking power | 420 | $(\mathrm{Kw})$ |

## 14*

| Initial speed | 328 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Final speed | 60 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 161 | $(\mathrm{~m})$ |
| Braking time | 1.75 | $(\mathrm{sec})$ |
| Maximum deceleration | 4.9 | $(\mathrm{~g})$ |
| Maximum pedal load | 183 | $(\mathrm{Kg})$ |
| Braking power | 2099 | $(\mathrm{Kw})$ |


| O3 |  |  |
| :--- | :--- | :--- |
| Initial speed | 120 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 77 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 20 | $(\mathrm{~m})$ |
| Braking time | 0.76 | $(\mathrm{sec})$ |
| Maximum deceleration | 1.3 | $(\mathrm{~g})$ |
| Maximum pedal load | 44 | $(\mathrm{Kg})$ |
| Braking power | 68 | $(\mathrm{Kw})$ |

08

| Initial speed | 247 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Final speed | 152 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 70 | $(\mathrm{~m})$ |
| Braking time | 0.92 | $(\mathrm{sec})$ |
| Maximum deceleration | 3.1 | $(\mathrm{~g})$ |
| Maximum pedal load | 104 | $(\mathrm{Kg})$ |
| Braking power | 986 | $(\mathrm{Kw})$ |

11

| Initial speed | 281 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Final speed | 76 | $(\mathrm{Km} / \mathrm{h})$ |
| Stopping distance | 133 | $(\mathrm{~m})$ |
| Braking time | 1.54 | $(\mathrm{sec})$ |
| Maximum deceleration | 3.8 | $(\mathrm{~g})$ |
| Maximum pedal load | 128 | $(\mathrm{Kg})$ |
| Braking power | 1405 | $(\mathrm{Kw})$ |


| 16 | 251 | $(\mathrm{Km} / \mathrm{h})$ |
| :--- | :--- | :--- |
| Initial speed | 128 | $(\mathrm{Km} / \mathrm{h})$ |
| Final speed | 90 | $(\mathrm{~m})$ |
| Stopping distance | 1.10 | $(\mathrm{sec})$ |
| Braking time | 3.2 | $(\mathrm{~g})$ |
| Maximum deceleration | 106 | $(\mathrm{Kg})$ |
| Maximum pedal load | 1025 | $(\mathrm{Kw})$ |
| Braking power |  |  |


[^0]:    * Turn 14 is considered the most demanding for the braking system.

