

F1 | BRAKE CIRCUIT IDENTITY CARDS

2015 FORMULA 1 SANTANDER
BRITISH GRAND PRIX

03-05 JUL 2015

SILVERSTONE CIRCUIT (SILVERSTONE)

TYPE OF CIRCUIT	LIGHT
TIME SPENT BRAKING	10%
AVERAGE DECELERATION	4.1 g
BRAKING ENERGY PRODUCED BY A CAR DURING THE GP	85 kWh
TOTAL PEDAL LOAD DURING THE GP	56,472 Kg

HARDER BRAKING

	STOPPING DISTANCE	MAXIMUM PEDAL LOAD
15	72 m	166 Kg
06	97 m	162 Kg
03	116 m	149 Kg

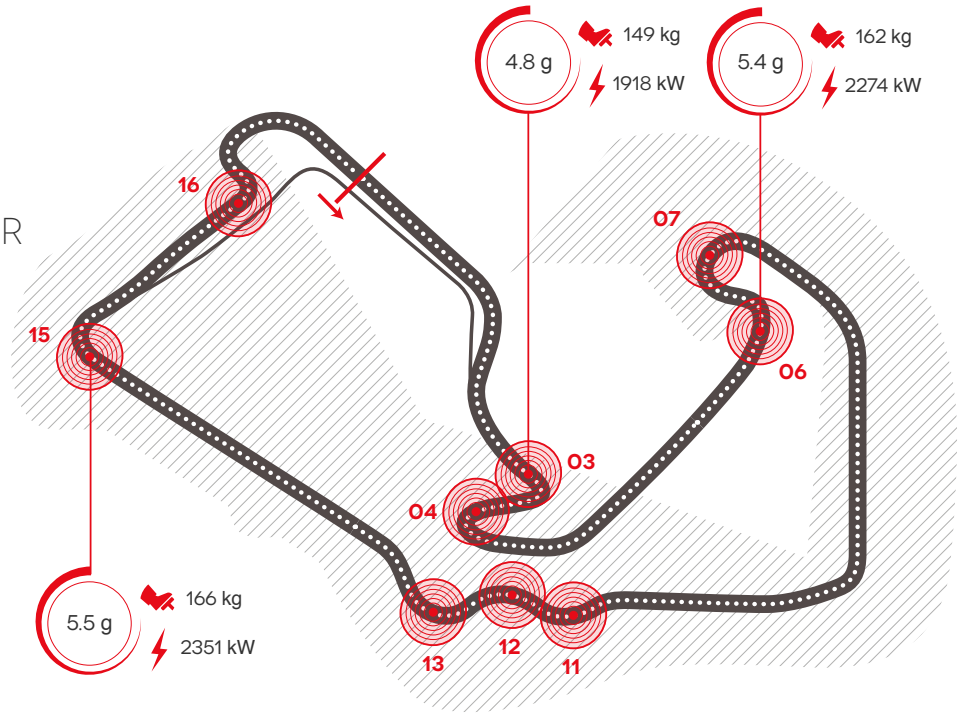
CIRCUIT DATA

Length: 5,901 m
Number of laps: 52
Number of brake zones/lap: 9

COMMENT

This is perhaps the least demanding track for the braking system with just 10% of each lap spent on the brakes. In fact, it is a very "driven" circuit where the long, fast turns generally translate into not-too-demanding braking sections. In the event of adverse weather conditions, given the low energy forces in play, there can be problems connected to excessive cooling and the "glazing" of the friction material. In fact, the carbon the discs and pads are made from do not guarantee correct friction generation if the operating temperatures are too low, thereby compromising braking performance.

*** Turn 15 is considered the most demanding for the braking system.**



03

Initial speed	297	(Km/h)
Final speed	96	(Km/h)
Stopping distance	116	(m)
Braking time	1.31	(sec)
Maximum deceleration	4.8	(g)
Maximum pedal load	149	(Kg)
Braking power	1918	(Kw)

04

Initial speed	157	(Km/h)
Final speed	89	(Km/h)
Stopping distance	58	(m)
Braking time	0.94	(sec)
Maximum deceleration	2.0	(g)
Maximum pedal load	58	(Kg)
Braking power	278	(Kw)

06

Initial speed	318	(Km/h)
Final speed	150	(Km/h)
Stopping distance	97	(m)
Braking time	1.07	(sec)
Maximum deceleration	5.4	(g)
Maximum pedal load	162	(Kg)
Braking power	2274	(Kw)

07

Initial speed	179	(Km/h)
Final speed	113	(Km/h)
Stopping distance	50	(m)
Braking time	0.81	(sec)
Maximum deceleration	2.3	(g)
Maximum pedal load	69	(Kg)
Braking power	458	(Kw)

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Initial speed	306	(Km/h)
Final speed	237	(Km/h)
Stopping distance	19	(m)
Braking time	0.68	(sec)
Maximum deceleration	5.0	(g)
Maximum pedal load	103	(Kg)
Braking power	1287	(Kw)

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Initial speed	287	(Km/h)
Final speed	210	(Km/h)
Stopping distance	23	(m)
Braking time	0.73	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	140	(Kg)
Braking power	1772	(Kw)

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Initial speed	229	(Km/h)
Final speed	169	(Km/h)
Stopping distance	23	(m)
Braking time	0.75	(sec)
Maximum deceleration	3.3	(g)
Maximum pedal load	101	(Kg)
Braking power	968	(Kw)

15*

Initial speed	323	(Km/h)
Final speed	191	(Km/h)
Stopping distance	72	(m)
Braking time	0.88	(sec)
Maximum deceleration	5.5	(g)
Maximum pedal load	166	(Kg)
Braking power	2351	(Kw)

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Initial speed	279	(Km/h)
Final speed	97	(Km/h)
Stopping distance	116	(m)
Braking time	1.36	(sec)
Maximum deceleration	4.4	(g)
Maximum pedal load	137	(Kg)
Braking power	1641	(Kw)