

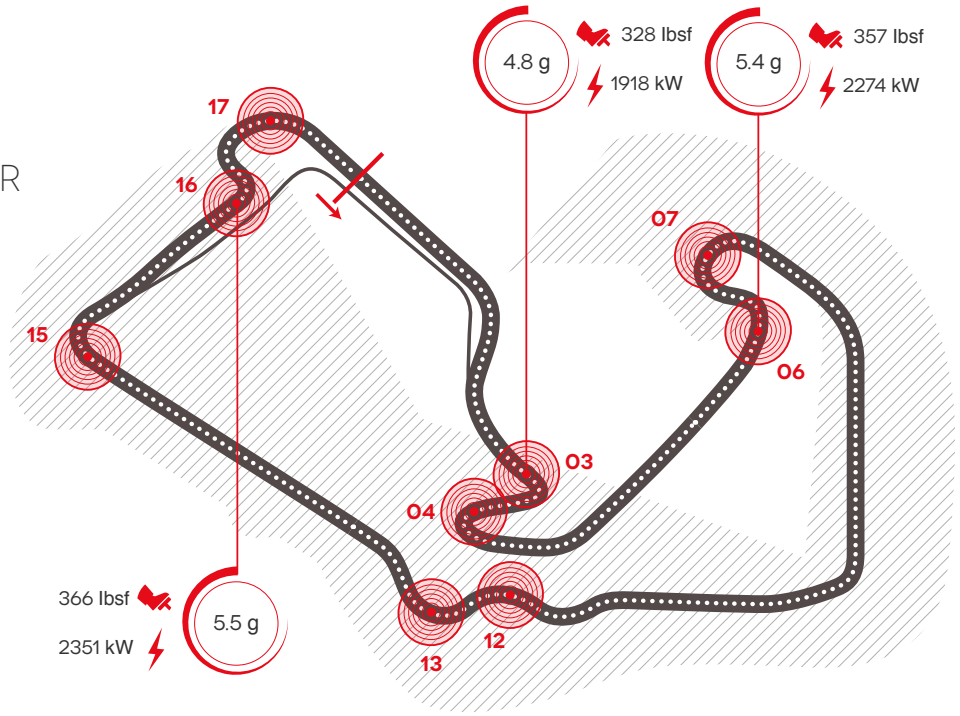
F1 BRAKE FACTS

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	85 kWh
TOTAL PEDAL LOAD DURING THE GP	124499 lbsf



HARDER BRAKING

	STOPPING DISTANCE		MAXIMUM PEDAL LOAD
16	236 ft		366 lbsf
06	319 ft		357 lbsf
03	397 ft		328 lbsf

CIRCUIT DATA

Length: 3,666 miles
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 16 is considered the most demanding for the braking system.**

03

Entry speed	184	(Mph)
Exit speed	59	(Mph)
Braking distance	379	(ft)
Braking time	1.31	(sec)
Maximum deceleration	4.8	(g)
Maximum pedal load	328	(Kg)
Braking power	1918	(Kw)

04

Entry speed	98	(Mph)
Exit speed	55	(Mph)
Braking distance	191	(ft)
Braking time	0.94	(sec)
Maximum deceleration	2.0	(g)
Maximum pedal load	128	(Kg)
Braking power	278	(Kw)

06

Entry speed	197	(Mph)
Exit speed	93	(Mph)
Braking distance	319	(ft)
Braking time	1.07	(sec)
Maximum deceleration	5.4	(g)
Maximum pedal load	357	(Kg)
Braking power	2274	(Kw)

07

Entry speed	111	(Mph)
Exit speed	70	(Mph)
Braking distance	163	(ft)
Braking time	0.81	(sec)
Maximum deceleration	2.3	(g)
Maximum pedal load	153	(Kg)
Braking power	458	(Kw)

12

Entry speed	190	(Mph)
Exit speed	147	(Mph)
Braking distance	62	(ft)
Braking time	0.68	(sec)
Maximum deceleration	5.0	(g)
Maximum pedal load	227	(Kg)
Braking power	1287	(Kw)

13

Entry speed	178	(Mph)
Exit speed	130	(Mph)
Braking distance	75	(ft)
Braking time	0.73	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	309	(Kg)
Braking power	1772	(Kw)

15

Entry speed	142	(Mph)
Exit speed	105	(Mph)
Braking distance	76	(ft)
Braking time	0.75	(sec)
Maximum deceleration	3.3	(g)
Maximum pedal load	224	(Kg)
Braking power	968	(Kw)

16*

Entry speed	200	(Mph)
Exit speed	119	(Mph)
Braking distance	236	(ft)
Braking time	0.88	(sec)
Maximum deceleration	5.5	(g)
Maximum pedal load	366	(Kg)
Braking power	2351	(Kw)

17

Entry speed	173	(Mph)
Exit speed	60	(Mph)
Braking distance	381	(ft)
Braking time	1.36	(sec)
Maximum deceleration	4.4	(g)
Maximum pedal load	302	(Kg)
Braking power	1641	(Kw)