



# BRAKE CIRCUIT IDENTITY CARD

## CIRCUIT OF THE AMERICAS

The Austin track can be considered to have a medium demand on the braking system with the drivers using the brakes for about 18% of the time on each lap, but it is characterized by four very sudden braking sections.

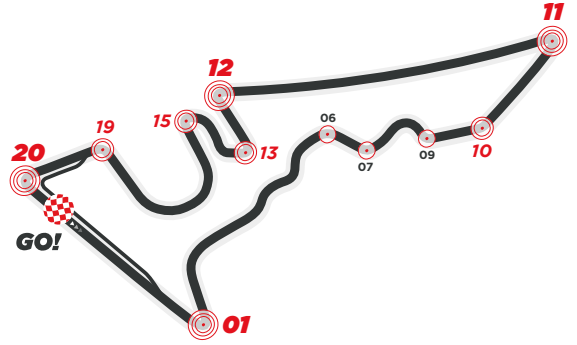
The turn 12 is worth a mention: it is one of the most demanding of the season in terms of dissipated energy.

SHOULD YOU PUBLISH ANY OF THE DATA CONTAINED HERE PLEASE QUOTE BREMBO AS SOURCE USED.

# FORMULA 1

20-22 OCT 2023 @ LENOVO UNITED STATES GRAND PRIX

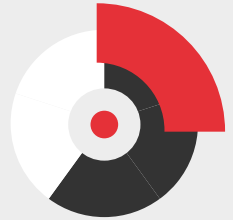
CIRCUIT LENGTH: **5.513 Km**  
 NUMBER OF LAPS: **56**



TIME SPENT BRAKING:  
**18%**

**TURN 12\*, TURN 11\* & TURN 01\***  
**ARE CONSIDERED THE MOST DEMANDING FOR THE BRAKING SYSTEM**

BRAKES EFFORT:  
**MEDIUM**



## 11 BRAKE ZONES / LAP

<b>01</b> TURN	Initial Speed (km/h)	304
	Final Speed (km/h)	93
	Stopping Distance (m)	112
	Braking Time (sec)	2.40
	Maximum Deceleration (g)	4.5
	Maximum Pedal Load (kg)	134
	Braking Power (kW)	2254

<b>06</b> TURN	Initial Speed (km/h)	272
	Final Speed (km/h)	268
	Stopping Distance (m)	6
	Braking Time (sec)	0.08
	Maximum Deceleration (g)	2.6
	Maximum Pedal Load (kg)	50
	Braking Power (kW)	768

<b>07</b> TURN	Initial Speed (km/h)	254
	Final Speed (km/h)	249
	Stopping Distance (m)	8
	Braking Time (sec)	0.12
	Maximum Deceleration (g)	2.2
	Maximum Pedal Load (kg)	36
	Braking Power (kW)	490

<b>09</b> TURN	Initial Speed (km/h)	255
	Final Speed (km/h)	201
	Stopping Distance (m)	47
	Braking Time (sec)	0.77
	Maximum Deceleration (g)	2.8
	Maximum Pedal Load (kg)	64
	Braking Power (kW)	904

<b>10</b> TURN	Initial Speed (km/h)	219
	Final Speed (km/h)	137
	Stopping Distance (m)	58
	Braking Time (sec)	1.24
	Maximum Deceleration (g)	3.5
	Maximum Pedal Load (kg)	110
	Braking Power (kW)	1304

<b>11</b> TURN	Initial Speed (km/h)	282
	Final Speed (km/h)	80
	Stopping Distance (m)	105
	Braking Time (sec)	2.51
	Maximum Deceleration (g)	4.4
	Maximum Pedal Load (kg)	134
	Braking Power (kW)	2142

<b>12</b> TURN	Initial Speed (km/h)	316
	Final Speed (km/h)	86
	Stopping Distance (m)	128
	Braking Time (sec)	2.78
	Maximum Deceleration (g)	4.4
	Maximum Pedal Load (kg)	131
	Braking Power (kW)	2269

<b>13</b> TURN	Initial Speed (km/h)	209
	Final Speed (km/h)	95
	Stopping Distance (m)	72
	Braking Time (sec)	1.88
	Maximum Deceleration (g)	3.1
	Maximum Pedal Load (kg)	93
	Braking Power (kW)	1052

<b>15</b> TURN	Initial Speed (km/h)	220
	Final Speed (km/h)	80
	Stopping Distance (m)	89
	Braking Time (sec)	2.47
	Maximum Deceleration (g)	2.9
	Maximum Pedal Load (kg)	83
	Braking Power (kW)	1010

<b>19</b> TURN	Initial Speed (km/h)	282
	Final Speed (km/h)	234
	Stopping Distance (m)	39
	Braking Time (sec)	0.57
	Maximum Deceleration (g)	3.3
	Maximum Pedal Load (kg)	81
	Braking Power (kW)	1276

<b>20</b> TURN	Initial Speed (km/h)	255
	Final Speed (km/h)	95
	Stopping Distance (m)	87
	Braking Time (sec)	2.00
	Maximum Deceleration (g)	4.3
	Maximum Pedal Load (kg)	133
	Braking Power (kW)	1902