

PESQUISAS E ESTUDOS DE VIABILIDADE DE PPP

Sistema Rodoviário Federal Minas Gerais, Goiás e Distrito Federal



Produto 3A
ESTUDOS DE ENGENHARIA I
AValiação Funcional e Estrutural do Pavimento

TOMO VIII

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1. APRESENTAÇÃO

Este documento corresponde à Avaliação Funcional e Estrutural dos Pavimentos do Produto 3A - Estudos de Engenharia I da rodovia BR 040 no trecho compreendido entre Juiz de Fora e Brasília, objeto do Contrato OCS No. 265/2006 firmado entre a Fundação para o Desenvolvimento Tecnológico da Engenharia – FDTE e o Banco Nacional de Desenvolvimento Econômico e Social – BNDES.

A avaliação estrutural compreendeu o levantamento das deflexões com equipamento FWD conforme DNER-PRO 273/96. A avaliação funcional compreendeu os seguintes levantamentos:

- Cadastro das ocorrências ou defeitos superficiais e deformações nas trilhas de roda conforme Norma DNIT 006/2003-PRO;
- Estimativa de porcentagem de área com trincas classe FC-2 e FC-3;
- Medições da Irregularidade Longitudinal conforme DNER-PRO 182/94;
- Desnível entre a pista de rolamento e os acostamentos;
- Situação superficial dos acostamentos.

A seguir é apresentado o linear esquemático dos trechos em estudo da rodovia BR 040.

LINEAR ESQUEMÁTICO PARA TRECHOS DE LEVANTAMENTO - RODOVIA BR-040

2. AVALIAÇÃO FUNCIONAL

2.1. Avaliação Objetiva da Superfície do Pavimento

O cadastramento dos defeitos dos pavimentos flexíveis foi efetuado com base no procedimento DNIT 006/2003-PRO, aplicando-se a terminologia de defeitos, definida pela norma rodoviária DNIT 005/2003-TER. Também foi feita uma estimativa das áreas da superfície dos pavimentos afetadas por trincas classe 2 e 3.

O levantamento abrangeu a avaliação dos acostamentos existentes, indicando se são pavimentados ou não, a existência ou não de desnível em relação à pista de rolamento, e seu estado atual.

A avaliação consiste na observação dos defeitos existentes em estações de ensaio com seis metros de extensão e largura igual à seção da faixa de rolamento e determinação das flechas, em milímetros, nas trilhas de roda externa e interna nas mesmas. Os seguintes tipos de defeitos são considerados na vistoria:

- Tipo 1 - Trincas Classe 1 (FC-1) – FI, TTC, TTL, TLC, TLL e TRR;
- Tipo 2 - Trincas Classe 2 (FC-2) – J e TB;
- Tipo 3 - Trincas Classe 3 (FC-3) – JE e TBE;
- Tipo 4 - Afundamento (ALP e ALT);
- Tipo 5 - Ondulação e Panelas (O e P);
- Tipo 6 - Exsudação (EX);
- Tipo 7 - Desgaste (D);
- Tipo 8 - Remendos (R).

As flechas nas trilhas de roda foram medidas em milímetros, em todas as estações de ensaio, tanto na trilha interna como na externa, utilizando treliça metálica.

O Anexo A (Tomos I a IV) contém as fichas de avaliação da superfície do pavimento da BR 040.

O Índice de Gravidade Global (IGG) é calculado por segmento homogêneo em função de pesos dados aos tipos de defeitos avaliados, da frequência relativa e das características da flecha na trilha de roda (representadas por sua média e variância).

A frequência relativa (Fr) é obtida por meio da fórmula:

$$Fr = \frac{Fax100}{n}$$

onde:

Fa = frequência absoluta, corresponde ao número de vezes em que a ocorrência foi verificada;

n = número de estações inventariadas.

Para cada uma das ocorrências inventariadas, foi calculado o Índice de Gravidade Individual (IGI), a partir da fórmula:

$$IGI = FrxFp$$

onde:

Fr = frequência relativa;

Fp = fator de ponderação, obtido de acordo com a Tabela 2.1.

Tabela 2.1. Relação de fatores de ponderação por tipo de defeito.

Tipo	Codificação de Ocorrências (conforme DNIT 005/2003-TER)	Fator de Ponderação
1	FC-1 (FI, TTC, TTL, TLC, TLL e TRR)	0,2
2	FC-2 (JA e BL)	0,5
3	FC-3 (JE e BE)	0,8
4	ALP e ATP	0,9
5	O e P	1,0
6	EX	0,5
7	D	0,3
8	R	0,6

Para a média aritmética e para as variâncias das flechas, o fator de ponderação utilizado obedeceu ao seguinte critério:

- Quando a média aritmética é igual ou inferior a 30, o fator de ponderação é igual a 4/3. Quando superior a 30, o Índice de Gravidade Individual é igual a 40;
- Quando a variância é igual ou inferior a 50, o fator de ponderação é igual a um; quando superior a 50, o Índice de Gravidade Individual é igual a 50.

Quando em uma mesma estação foram constatadas ocorrências tipos 1, 2 e 3, só se consideraram as do tipo 3, para o cálculo da frequência relativa em percentagem (*Fr*) e Índice de Gravidade Individual (*IGI*); do mesmo modo, quando foram verificadas ocorrências 1 e 2, só se consideraram as de tipo 2.

O Índice de Gravidade Global (*IGG*) foi obtido a partir da fórmula:

$$IGG = \sum IGI$$

onde:

$\sum IGI$ = somatório dos Índices de Gravidade Individuais, calculados de acordo com o estabelecido anteriormente.

Com a finalidade de conferir ao pavimento inventariado um conceito que retrate o grau de deterioração atingido, é definida a correspondência apresentada na Tabela 2.2 a seguir.

Tabela 2.2. Conceitos de degradação do pavimento em função do IGG.

Conceitos	Limites de IGG
Ótimo	$0 < \text{IGG} \leq 20$
Bom	$20 < \text{IGG} \leq 40$
Regular	$40 < \text{IGG} \leq 80$
Ruim	$80 < \text{IGG} \leq 160$
Péssimo	$\text{IGG} > 160$

O Anexo B (Tomos V e VI) contém as planilhas de cálculo do Índice de Gravidade Global (IGG) para cada quilômetro avaliado.

2.2. Irregularidade Longitudinal

A irregularidade longitudinal de um pavimento é uma característica que influi na interação a superfície da via com os veículos, gerando efeito sobre os próprios veículos, sobre os passageiros e o motorista e sobre a carga transportada. Ela é a grandeza física mensurável na superfície do pavimento que melhor se correlaciona com o custo operacional dos veículos, o conforto, a segurança, a velocidade e a economia das viagens.

A norma DNER-PRO 164/94 define a irregularidade como sendo o desvio da superfície da rodovia em relação a um plano de referência. Adota-se como escala padrão de irregularidade no Brasil o quociente de irregularidade - QI - expresso em contagens/km, porém, esta também pode ser expressa pelo IRI – *International Roughness Index* – dado em m/km ou mm/m. A relação usual utilizada para conversão é $IRI = \frac{QI}{13}$.

A medição da irregularidade, ou do quociente de irregularidade, foi realizada através do equipamento *Bump Integrator* devidamente calibrado, montado em um veículo utilitário. O *Bump Integrator* é um sistema Medidor de Irregularidade Tipo

Resposta (SMITR), classe III. Ele é composto, basicamente, por três conjuntos:

- sensor eletrônico, capaz de quantificar os deslocamentos verticais entre o chassi e o eixo traseiro do veículo utilitário gerados pelo movimento do veículo;
- odômetro de precisão para medição da distância percorrida pelo equipamento durante o levantamento;
- quantificador de irregularidade, ou seja, calculador do quociente entre a distância percorrida horizontalmente e os deslocamentos verticais da suspensão totalizados a cada 200 m.

Nos trabalhos foram seguidos os procedimentos DNER PRO-182/90, que normaliza a Medição de Irregularidade de Superfície de Rodovias com Medidores Tipo Resposta e o DNER PRO-229/89 (Manutenção de Sistemas Medidores de Irregularidade).

A medição é feita por dois operadores, um motorista e um técnico, fazendo-se o veículo percorrer o trecho a ser medido, sobre as trilhas de roda, a uma das seguintes velocidades:

- 80 ± 2 km/h;
- 50 ± 2 km/h;
- 30 ± 2 km/h.

O sistema conta com um programa para automatizar a aquisição de dados do integrador *Bump Integrator*, chamados ROMDAS, que elimina qualquer tipo de erro proveniente de anotação ou digitação mal feita, uma vez que as informações do integrador são transmitidas diretamente a um computador de bordo. Este contém dispositivos de verificação de consistência dos dados captados, acusando qualquer mau funcionamento dos sensores, seja de distância - DMI - ou seja, do *Bump Integrator* - sensor de resposta do veículo às irregularidades da rodovia.

Ao introduzir as equações de calibração, são fornecidos os valores de QI ou IRI conforme o desejado. Ele acusa ainda com sinal sonoro se a velocidade preconizada está fora dos limites aceitáveis e, em caso de mudança brusca de velocidade, ele promove automaticamente a substituição das constantes de calibração da velocidade correspondente para as constantes da velocidade efetivamente observada no levantamento, resultando em uma maior acurácia aos dados obtidos. A Figura 2.1 apresenta uma ilustração do veículo medidor de irregularidade.

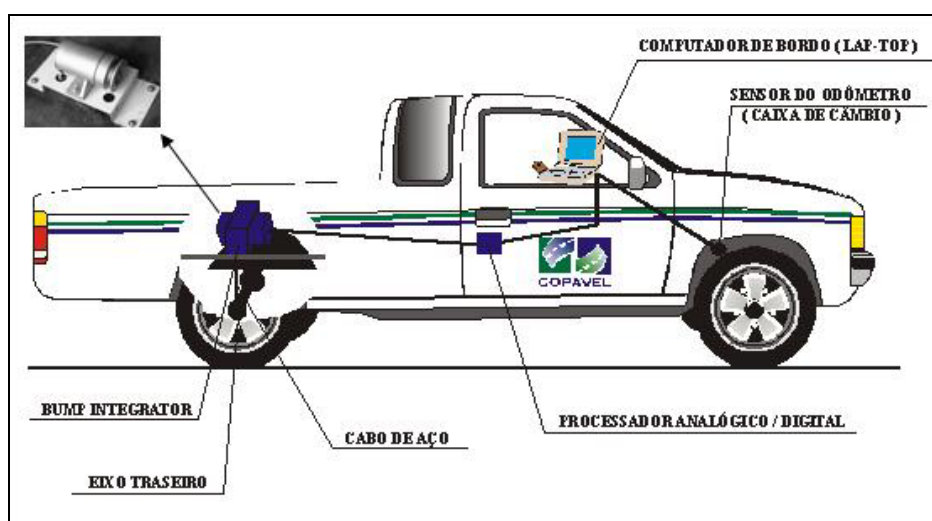


Figura 2.1. Veículo medidor de irregularidade.

O Anexo C (Tomo VII) apresenta os valores de QI e IRI totalizados a cada 200m, para todas as faixas de tráfego.

3. AVALIAÇÃO ESTRUTURAL

A avaliação estrutural de pavimentos através de processos não destrutivos compreende basicamente o estudo da deformabilidade elástica exteriorizada pelo conjunto estratificado pavimento - solo de fundação, quando solicitado por carga externa. O estudo da deformabilidade é feito auscultando-se o pavimento com deflectômetros ou deflectógrafos, obtendo-se a deflexão reversível máxima e sua dissipação no meio adjacente, definindo-se assim a linha de influência da bacia de deformação.

Pode-se definir deflexão reversível ou recuperável como os deslocamentos verticais que surgem no pavimento quando este é submetido a esforços externos, de caráter transitório, ou seja, a estrutura retorna à sua configuração anterior quando cessa o esforço.

O estudo da deformabilidade é feito com o objetivo de se avaliar indiretamente a capacidade de carga da estrutura do pavimento, e permite ainda que sejam inferidas as grandezas fundamentais como módulos de resiliência/rigidez e coeficientes de *Poisson* das camadas constituintes, estabelecendo o estado tensional da estrutura a partir dos conceitos clássicos da Mecânica dos Pavimentos, o que permite estimar a vida remanescente dos mesmos.

Para a avaliação das características estruturais dos pavimentos, foi utilizado o equipamento *Falling Weight Deflectometer KUAB*, constituído por um deflectômetro de impacto projetado para simular o efeito de cargas de roda em movimento. Este efeito é obtido pela queda de um peso, a partir de alturas pré-fixadas, sobre um sistema de amortecedores de borracha, que transmitem a força aplicada a uma placa circular apoiada no pavimento.

As deflexões com o equipamento FWD foram determinadas conforme procedimento DNER-PRO 273/96. Na execução dos ensaios, aplicou-se uma carga de cerca de 4.100 kgf em uma placa de 30 cm de diâmetro. Foram efetuadas leituras de deflexões no centro de aplicação da carga aplicada e em pontos localizados a distâncias de 20, 30, 45, 65, 90 e 120 cm do centro da carga, a partir de sensores instalados no equipamento.

Os ensaios foram executados a cada 80 m, nas faixas de tráfego mais solicitadas. O Anexo D (Tomo VIII) contém as planilhas com o levantamento das deflexões.

A Figura 3.1 apresenta algumas ilustrações do equipamento FWD modelo KUAB. A Figura 3.2 apresenta um modelo de bacia de deflexões obtida com equipamento FWD.

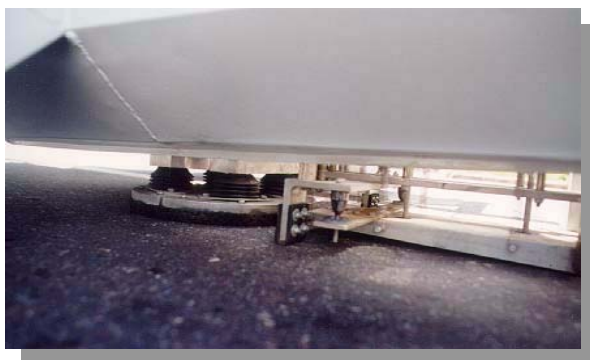


Figura 3.1. Vista de equipamento FWD modelo KUAB.

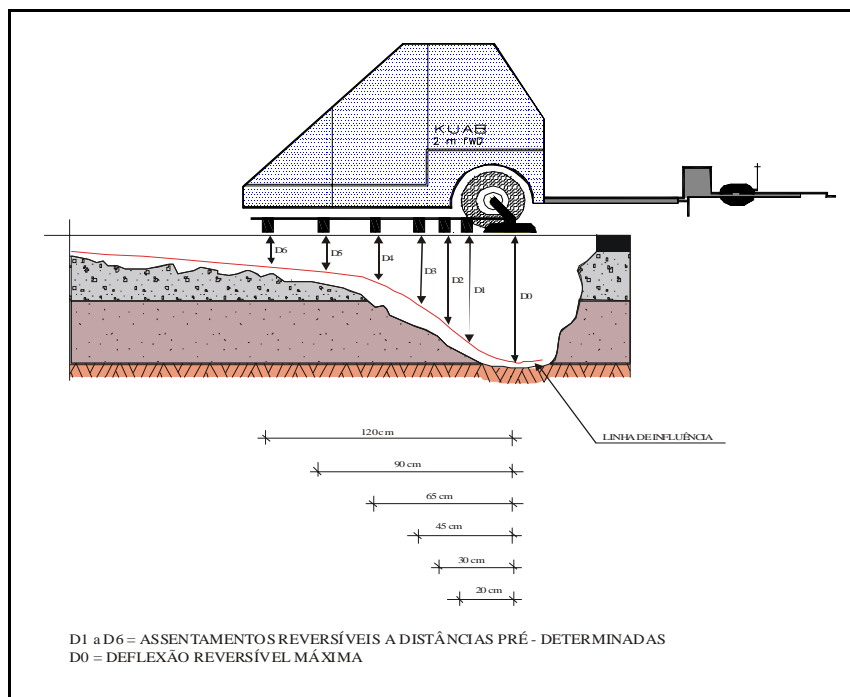


Figura 3.2. Exemplo de bacia de deflexões medida com o FWD.

ANEXO D - LEVANTAMENTO ESTRUTURAL COM EQUIPAMENTO FWD

TRECHO: DISTRITO FEDERAL (km 0,0) - DIVISA DF/GO (km 8,2)

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,00 ao km 8,200							DATA: Abril/2007		
PISTA: Dupla / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
0,000	4.074	39	31	26	22	16	10	7	26	27	
0,080	4.095	18	16	15	14	11	8	6	26	27	
0,162	4.088	17	15	13	12	10	7	6	26	26	
0,240	4.081	16	15	14	12	10	7	5	26	26	
0,320	4.066	26	21	19	16	12	8	5	26	26	
0,399	4.095	26	22	19	18	12	8	6	26	26	
0,480	4.081	26	23	20	17	12	7	5	26	26	
0,400	4.081	24	20	18	16	11	7	5	26	26	
0,320	4.081	24	20	18	15	11	7	5	26	26	
0,240	4.095	28	22	19	15	10	6	4	26	26	
0,400	3.994	24	19	16	13	9	5	3	26	26	
0,480	4.066	31	24	21	17	13	8	6	26	26	
0,560	4.066	25	21	19	17	13	9	7	26	26	
0,640	4.081	13	11	10	9	8	6	5	26	25	
0,720	4.095	18	16	14	12	10	7	6	26	26	
0,800	4.102	20	17	16	14	11	8	7	26	25	km 0 = 1000m
1,040	4.081	18	15	14	13	11	8	7	26	26	
1,120	4.095	15	13	12	11	10	8	6	26	25	
1,201	4.081	27	23	21	18	15	11	8	26	25	
1,281	4.102	16	14	14	13	11	9	7	26	25	
1,363	4.066	22	19	18	17	14	11	9	26	25	
1,440	4.081	23	20	18	16	13	10	8	26	25	
1,520	4.095	17	15	14	12	10	8	6	26	25	
1,600	4.074	27	22	21	18	14	10	8	26	25	
1,681	4.102	23	20	18	16	13	10	8	26	25	
1,760	4.110	18	16	15	13	11	9	7	26	25	
1,841	4.095	24	21	19	17	14	10	8	26	25	
1,920	4.095	20	18	17	15	12	9	7	26	25	km 1 = 952m
2,000	4.088	19	16	15	13	10	8	6	26	25	
2,080	4.095	17	15	14	13	11	8	7	26	25	
2,162	4.095	17	15	14	13	11	8	7	26	25	
2,242	4.102	20	18	17	15	12	9	8	26	25	
2,322	4.074	26	22	21	18	15	11	9	26	25	
2,400	4.088	22	19	19	17	15	11	9	24	25	
2,480	4.095	16	15	14	13	11	9	8	24	25	
2,562	4.074	20	18	17	16	13	10	8	24	25	
2,641	4.081	14	12	11	11	9	7	6	24	25	
2,721	4.088	23	20	18	16	13	9	7	24	25	
2,800	4.081	28	19	15	12	9	6	5	24	25	
2,880	4.088	19	13	10	7	4	2	2	24	25	inicio de ponte km 2,945
2,970	4.088	15	9	6	4	3	2	1	24	25	fim de ponte km 2,972
3,120	4.088	32	23	17	11	5	2	1	24	26	km 2 = 1055m
3,200	4.095	20	14	11	8	5	3	3	24	26	inicio de ponte km 3,020
3,281	4.095	22	16	13	11	8	5	5	24	25	fim de ponte km 3,050
3,363	4.074	35	26	20	14	9	5	4	24	25	
3,442	4.066	18	15	15	13	11	8	7	24	26	
3,522	4.066	16	13	13	11	9	7	6	24	25	
3,600	4.059	18	15	14	13	11	8	7	24	25	
3,682	4.088	16	14	13	12	10	8	6	24	25	
3,762	4.074	12	11	10	9	8	6	6	24	26	
3,841	4.045	19	17	16	14	12	8	7	24	26	
3,922	4.066	21	18	16	14	12	8	7	24	26	km 3 = 1007m
4,000	4.045	17	14	13	12	10	7	6	24	26	
4,081	4.045	23	20	18	16	12	9	6	24	26	
4,161	4.074	20	17	15	13	11	8	6	24	26	
4,240	4.066	16	13	12	10	8	6	5	24	26	
4,317	4.074	14	11	10	9	7	5	4	24	26	
4,397	4.045	12	10	9	8	6	4	3	24	26	
4,477	4.038	12	9	8	7	5	3	3	24	26	
4,563	4.095	9	7	6	6	4	3	2	24	26	
4,639	4.081	12	9	8	6	5	3	3	24	26	
4,721	4.088	9	7	7	6	5	3	3	24	26	
4,800	4.088	10	8	7	6	5	4	3	24	26	
4,882	4.074	11	8	7	6	5	4	3	24	26	
4,961	4.088	13	11	10	8	7	5	4	24	26	km 4 = 1000m
5,041	4.074	13	11	10	9	8	6	5	24	26	
5,123	4.066	20	17	16	14	11	8	7	24	26	
5,202	4.095	16	14	13	12	10	7	6	24	26	
5,283	4.066	18	15	14	13	11	8	7	24	26	
5,360	4.088	22	20	18	16	13	10	8	24	26	

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 8,200 ao km 0,00							DATA: Abril/2007		
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
8,190	4.182	28	22	19	15	10	7	5	20	23	km 8 = 190m
8,109	4.153	39	30	25	20	13	8	6	20	23	
8,040	4.153	40	32	27	21	15	9	7	20	23	
7,960	4.124	44	32	27	21	14	9	7	20	23	km 7 = 1000m
7,879	4.160	34	24	20	15	10	7	5	20	23	
7,799	4.146	45	34	27	21	13	8	5	20	23	
7,719	4.167	36	30	25	20	13	8	5	20	23	
7,640	4.167	33	25	20	15	11	7	5	20	23	
7,560	4.160	32	27	23	19	14	9	5	20	23	
7,479	4.167	35	28	24	19	13	8	6	20	23	
7,399	4.153	39	29	24	19	13	8	5	20	23	
7,318	4.139	56	42	33	24	14	8	5	20	23	
7,239	4.153	51	39	30	23	14	8	5	20	23	
7,157	4.131	46	31	25	19	12	7	4	20	23	
7,077	4.182	18	14	12	10	8	5	4	20	23	
7,000	4.146	42	30	23	17	11	7	5	20	23	
6,920	4.117	33	22	17	12	7	4	3	20	24	km 6 = 1000m
6,838	4.117	42	33	27	21	14	9	6	20	23	
6,758	4.146	39	31	27	22	15	10	7	20	24	
6,677	4.117	33	27	23	19	13	9	6	20	24	
6,597	4.139	39	31	26	21	14	9	6	20	23	
6,520	4.131	36	29	25	20	14	8	5	22	24	
6,439	4.110	55	41	32	24	15	9	6	22	24	
6,359	4.131	44	32	26	20	13	8	5	22	24	
6,278	4.139	38	30	25	20	13	8	6	22	24	
6,200	4.131	36	28	24	19	13	8	6	22	24	
6,121	4.139	37	31	27	22	15	9	6	22	24	
6,043	4.146	39	31	26	21	14	8	6	22	24	
5,960	4.102	44	34	28	22	14	9	6	22	24	km 5 = 1000m
5,880	4.102	52	38	30	22	14	8	5	22	24	
5,798	4.139	54	39	29	21	12	7	5	22	24	
5,719	4.160	40	32	26	20	13	8	6	22	24	
5,638	4.117	49	38	31	23	15	9	7	22	24	
5,560	4.146	40	32	27	21	14	8	6	22	24	
5,479	4.131	41	33	28	22	14	9	6	22	25	
5,399	4.124	45	34	27	20	13	8	5	22	24	
5,319	4.117	41	31	25	19	12	7	5	22	24	
5,240	4.131	37	31	27	22	16	10	7	22	24	
5,159	4.102	41	32	25	19	12	8	6	22	25	
5,080	4.131	31	24	20	15	10	6	5	22	25	
5,000	4.124	52	36	26	17	10	6	4	22	24	
4,919	4.117	41	31	24	17	10	5	4	22	25	km 4 = 1000m
4,839	4.153	24	19	16	13	8	4	3	22	25	
4,760	4.160	30	24	20	16	10	6	4	22	25	
4,681	4.146	31	22	18	14	8	5	3	22	24	
4,601	4.139	28	21	17	13	8	4	3	22	25	
4,521	4.146	29	22	17	12	7	4	3	22	25	
4,439	4.175	36	26	20	14	8	4	3	22	25	
4,361	4.139	32	25	21	17	11	6	4	22	25	
4,280	4.131	48	35	28	21	14	9	6	24	25	
4,199	4.131	36	31	27	23	16	10	7	24	25	
4,117	4.110	37	28	23	18	13	9	7	24	25	
4,040	4.124	43	35	30	24	16	10	7	24	25	
3,960	4.088	54	42	35	27	18	12	9	24	26	km 3 = 1000m
3,880	4.095	56	47	40	31	21	12	8	24	25	
3,799	4.117	36	30	26	21	15	9	7	24	25	
3,718	4.095	48	38	33	26	18	12	8	24	26	
3,639	4.131	45	36	30	23	15	10	7	24	26	
3,560	4.095	43	35	29	23	16	10	6	24	26	
3,478	4.110	43	32	26	19	13	8	6	24	26	
3,398	4.059	51	40	33	25	16	9	7	24	26	
3,320	4.110	31	23	19	15	11	8	6	24	26	
3,238	4.124	22	17	13	9	5	3	2	24	27	
3,158	4.117	24	19	15	11	6	3	1	24	26	
3,078	4.117	18	12	9	6	4	2	2	24	26	início de ponte km 3,060 fim de ponte km 3,015
3,000	4.124	29	21	15	9	4	2	1	24	27	
2,880	4.131	26	18	13	9	5	2	2	24	27	km 2 = 1000m início de ponte km 2,920
2,760	4.139	35	26	19	13	6	2	1	24	27	
2,678	4.110	22	17	15	12	9	7	6	24	27	fim de ponte km 2,895
2,599	4.088	46	36	29	23	15	9	7	24	27	

[illegible]

TRECHO: DIVISA DF/GO (km 0,0) - DIVISA GO/MG (km 157,3)

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 0,000 ao km 24,820							DATA: Abril/2007		
PISTA:	Dupla / Crescente	FAIXA: 2									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
0,006	4.066	18	15	14	12	10	7	6	25	26	
0,080	4.045	32	26	24	21	17	11	9	25	26	
0,160	4.045	34	30	27	24	19	13	10	25	26	
0,240	4.009	38	31	28	24	18	12	8	25	26	
0,322	3.922	185	44	33	27	20	13	9	25	26	
0,401	3.908	61	46	37	29	20	12	10	25	26	
0,462	4.038	32	27	24	21	16	11	8	25	26	
0,540	4.009	48	42	36	30	23	16	11	25	27	
0,640	4.038	27	22	21	18	15	10	8	25	27	
0,721	4.016	33	27	25	22	17	12	9	25	26	
0,800	4.038	25	22	21	18	15	11	8	25	26	
0,880	4.030	38	33	31	24	18	12	9	25	27	
0,960	3.893	99	32	28	24	18	13	9	25	26	km 0 =1000m
1,040	3.980	61	44	39	29	20	12	9	25	26	
1,122	3.908	70	53	45	30	21	14	10	25	26	
1,200	4.059	48	40	34	27	17	10	7	25	26	
1,280	4.002	48	39	34	27	20	13	9	25	26	
1,361	3.980	81	56	43	33	19	11	8	25	26	
1,442	4.066	38	32	28	23	17	11	8	25	26	
1,523	3.958	60	47	40	31	21	13	9	25	27	
1,600	4.045	43	36	32	26	17	11	8	25	26	
1,679	4.030	49	40	33	27	20	12	9	25	27	
1,761	3.994	88	76	47	32	17	10	7	25	27	
1,840	4.038	34	26	23	18	12	7	5	25	27	
1,920	4.023	57	44	37	29	21	13	10	25	27	km 1 =1011m
2,000	4.059	43	37	32	26	19	12	8	25	26	
2,081	4.045	49	37	31	25	17	10	7	25	27	
2,163	4.066	43	30	24	17	11	7	5	25	26	
2,240	4.102	26	20	16	12	7	3	2	25	27	
2,320	4.088	28	21	17	12	8	4	3	25	27	
2,403	4.081	33	24	18	12	7	4	4	25	27	
2,479	4.081	22	16	13	9	5	2	1	25	27	
2,562	4.102	25	18	14	10	6	3	2	25	27	
2,641	4.088	22	16	12	8	5	3	2	25	27	
2,720	4.059	21	17	14	11	8	5	4	25	27	
2,800	4.052	18	15	14	13	11	9	7	25	27	
2,880	4.074	14	12	12	11	9	7	6	25	27	
2,961	4.066	13	12	11	10	9	7	6	25	27	km 2 =1000m
3,043	4.038	27	23	22	19	16	11	9	25	27	
3,120	4.052	25	22	20	18	14	10	8	25	27	
3,203	4.038	34	29	26	21	16	11	8	25	27	
3,280	4.023	43	35	31	25	18	12	8	25	27	
3,359	4.059	25	22	20	18	14	10	8	25	27	
3,440	4.030	43	34	30	24	18	11	9	25	27	
3,521	4.016	75	58	47	28	18	10	7	25	28	
3,600	4.030	41	33	27	21	14	7	5	25	27	início de ponte km 3,620
3,681	4.066	25	19	15	12	7	4	3	25	27	fim de ponte km 3,660
3,761	4.016	55	39	30	21	12	7	5	25	27	
3,843	4.009	41	28	22	16	11	7	5	25	27	
3,920	4.023	44	31	24	17	11	7	5	25	27	km 3 =994m
4,000	4.139	45	33	25	18	12	8	6	21	23	
4,083	4.146	43	33	25	19	13	8	7	21	23	
4,162	4.124	63	46	34	24	15	9	7	21	23	
4,243	4.124	79	57	36	23	14	9	7	21	23	
4,320	4.117	68	47	35	24	15	9	7	21	23	
4,400	4.088	75	54	40	28	18	12	9	21	23	
4,480	4.110	53	42	34	26	18	11	8	21	23	
4,560	4.095	63	45	35	26	17	10	7	21	23	
4,642	4.131	45	41	34	25	17	11	8	21	23	
4,722	4.102	56	45	38	29	20	12	9	21	23	
4,800	4.074	91	60	45	29	17	11	8	21	23	
4,880	4.059	110	74	50	35	22	14	10	21	23	
4,960	4.131	37	32	29	25	20	13	10	21	23	km 4 = 1000m
5,041	3.944	99	61	37	25	15	10	8	21	23	
5,120	4.059	71	52	41	30	19	11	8	21	23	
5,201	4.066	84	61	45	30	18	11	8	21	23	
5,280	4.088	56	45	36	28	20	13	10	21	23	
5,358	4.066	57	46	39	31	22	14	10	21	23	
5,439	4.009	100	72	51	32	19	12	8	21	23	
5,520	4.117	72	54	42	30	17	10	7	21	23	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,000 ao km 24,820						DATA: Abril/2007			
PISTA: Dupla / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
5,601	4.081	65	49	40	30	19	12	9	21	23	
5,681	4.117	71	59	46	33	21	13	10	21	23	
5,763	4.081	67	47	38	29	20	13	10	21	23	
5,842	4.110	72	52	39	26	14	8	5	21	23	
5,923	4.088	76	61	47	33	18	10	6	21	23	km 5 = 1000m
6,000	4.095	64	44	34	25	16	11	8	21	23	
6,081	4.102	51	36	29	22	15	10	7	21	23	
6,162	4.124	44	34	28	22	15	10	7	21	23	início de ponte km 6,260
6,322	4.124	47	34	27	20	13	8	6	21	23	fim de ponte km 6,300
6,400	4.124	40	32	26	21	14	9	6	21	23	
6,480	4.023	103	66	49	32	20	12	10	21	23	
6,560	4.110	54	43	34	25	18	12	9	21	23	
6,640	4.081	58	43	35	26	18	12	9	21	23	
6,721	4.038	96	70	47	32	20	13	10	21	23	
6,800	4.038	107	72	47	28	19	12	9	21	23	
6,877	4.088	65	48	37	26	17	11	8	21	23	
6,957	4.081	58	43	34	26	18	12	9	21	23	km 6 = 1000m
7,038	4.052	82	57	44	33	21	13	9	21	23	
7,119	4.038	75	55	44	33	22	14	10	21	23	
7,200	4.102	36	28	23	18	13	9	7	21	23	
7,280	4.074	58	45	38	30	21	14	11	21	23	
7,361	4.124	41	32	26	21	14	9	6	21	23	
7,443	4.110	52	42	33	25	17	11	8	21	23	
7,523	4.117	45	35	26	19	13	8	6	21	23	
7,603	4.102	34	28	23	19	14	10	8	21	23	
7,680	4.088	57	44	36	28	19	13	10	21	23	
7,761	4.110	51	39	32	24	16	10	7	21	23	
7,842	4.052	65	49	39	31	20	13	9	21	23	
7,923	4.052	73	52	40	30	20	13	10	21	23	km 7 = 1006m
8,000	4.066	73	53	41	30	19	12	9	21	23	
8,080	4.030	90	70	37	22	14	9	7	21	23	
8,162	4.124	35	28	24	19	14	9	7	21	23	
8,241	3.973	128	87	54	35	19	13	8	21	23	
8,322	4.059	83	56	41	28	16	10	8	21	23	
8,400	4.146	52	32	21	11	5	2	1	21	23	
8,481	4.117	76	49	32	18	7	3	2	21	23	
8,559	4.030	94	56	37	24	14	8	6	21	24	
8,642	3.994	118	75	44	31	18	10	8	21	23	
8,721	3.987	132	72	46	29	17	10	8	21	23	
8,803	3.987	151	91	55	33	16	9	7	21	23	
8,880	4.059	98	60	39	25	14	8	6	21	23	
8,961	4.074	69	48	35	22	13	8	6	21	23	km 8 = 1000m
9,042	3.994	117	75	48	30	16	9	7	21	23	
9,120	3.994	101	72	40	23	11	6	5	21	23	
9,200	4.023	124	86	50	32	14	8	4	21	23	
9,281	3.994	132	79	51	36	19	10	7	21	23	
9,362	3.980	136	94	58	36	18	10	6	21	23	
9,441	3.994	106	67	47	32	17	9	6	21	23	
9,523	4.016	130	85	48	27	12	7	5	21	23	
9,603	3.980	115	66	41	24	13	7	5	21	23	
9,680	4.045	109	66	38	23	11	6	4	21	23	
9,761	4.023	121	74	46	26	12	6	5	21	23	
9,860	4.023	114	67	36	25	14	9	5	21	23	km 9 = 934m
10,000	4.095	86	57	36	23	13	7	5	21	23	
10,083	3.966	109	64	42	25	12	6	2	21	23	
10,160	4.045	112	74	40	26	12	6	4	21	23	
10,242	4.002	111	76	50	35	18	10	7	21	23	
10,320	4.038	108	75	48	30	15	9	7	21	23	
10,400	4.023	110	64	42	26	14	8	6	21	23	
10,478	4.016	120	85	47	27	15	9	6	21	23	
10,558	4.002	121	83	57	37	21	13	9	21	23	
10,640	3.958	132	83	49	34	21	12	9	21	23	
10,720	4.023	118	81	43	28	16	9	7	21	23	
10,802	3.958	140	84	53	32	17	9	6	21	24	
10,882	4.030	113	67	39	26	14	8	6	21	23	
10,961	4.167	19	15	13	10	7	4	3	21	24	
11,043	4.124	34	28	25	20	14	8	5	21	24	km 10 = 1070m
11,040	4.102	36	30	26	20	13	8	5	21	23	
11,121	4.131	23	20	18	16	12	9	7	21	24	
11,202	4.124	35	29	25	20	15	10	7	21	23	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,000 ao km 24,820							DATA: Abril/2007		
PISTA: Dupla / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
11,282	4.117	36	29	25	20	15	9	6	21	24	
11,360	4.153	27	22	20	16	12	8	6	21	24	
11,441	4.139	25	21	19	16	13	9	7	21	24	
11,522	4.124	25	20	17	14	10	7	5	21	24	
11,600	4.102	32	27	24	20	15	10	7	21	24	
11,680	4.124	27	22	19	16	12	8	6	21	24	
11,761	4.131	28	23	20	17	12	8	5	21	23	
11,842	4.146	19	15	12	10	7	5	3	21	24	
11,920	4.124	31	26	23	19	14	9	6	21	24	km 11 = 1000m
12,000	3.958	117	34	30	24	15	8	6	21	24	
12,081	4.110	25	21	19	16	13	9	7	21	24	
12,160	4.102	36	30	26	21	14	9	6	21	24	
12,241	4.102	34	25	21	17	12	8	6	21	24	
12,322	4.102	34	27	22	18	13	8	5	21	24	
12,400	4.102	48	40	28	22	14	9	5	21	24	
12,481	4.110	40	32	27	21	14	8	6	21	24	
12,561	4.102	27	23	20	17	13	9	6	21	24	
12,643	4.110	26	21	18	15	11	7	5	21	24	
12,722	4.139	24	19	17	13	9	6	4	21	24	
12,800	4.095	35	27	24	20	14	9	6	21	24	
12,879	4.124	18	15	13	11	8	5	4	21	24	
12,961	4.139	21	16	14	12	9	6	4	21	24	km 12 = 1009m
13,041	4.124	25	20	17	14	10	7	5	21	24	
13,120	4.131	20	17	15	13	10	7	5	21	25	
13,200	4.124	26	20	18	15	11	7	5	21	24	
13,282	4.131	22	19	17	15	11	8	6	21	24	
13,362	4.088	25	18	16	13	9	6	4	21	25	
13,443	4.009	88	60	42	27	14	8	5	21	25	
13,520	3.966	114	78	56	37	24	15	10	21	24	
13,599	3.951	114	71	50	35	20	13	10	21	24	
13,680	3.951	112	76	47	32	21	12	9	21	25	
13,761	3.872	171	127	82	55	30	17	12	21	25	
13,841	3.937	112	82	56	41	24	14	10	21	24	
13,920	4.052	61	44	36	27	19	12	9	21	25	km 13 = 980m
14,000	4.052	53	42	35	28	20	14	10	21	25	
14,081	4.030	59	43	35	27	19	12	10	21	25	
14,160	4.038	60	45	35	27	17	11	9	21	25	
14,241	4.030	53	39	31	24	15	10	7	21	25	
14,322	3.958	87	62	48	33	19	11	8	21	25	
14,402	3.987	62	47	38	30	20	12	9	21	25	
14,481	4.016	61	45	36	27	18	11	8	23	25	
14,560	4.038	52	35	29	22	15	10	7	23	25	
14,639	4.052	47	36	29	22	15	9	7	23	25	
14,720	4.117	11	10	9	9	7	6	5	23	25	
14,798	4.102	21	17	15	13	10	7	6	23	25	
14,878	4.081	28	22	19	16	12	8	6	23	25	
14,959	4.095	23	18	15	12	8	5	4	23	25	km 14 = 1000m
15,040	4.095	24	17	14	10	6	4	2	23	25	
15,121	4.102	21	15	12	8	5	3	2	23	25	
15,201	4.095	24	19	15	11	7	4	2	23	25	
15,283	4.081	27	19	15	11	6	3	2	23	24	
15,360	4.110	20	14	11	8	5	3	2	23	25	
15,440	4.110	23	17	14	11	8	5	4	23	25	
15,521	4.102	22	15	12	9	6	4	3	23	25	
15,600	4.095	27	19	14	10	6	4	3	23	25	
15,677	4.088	23	16	13	9	6	4	3	23	25	
15,757	4.095	23	16	12	9	5	3	2	23	25	
15,838	4.088	48	30	19	12	6	3	2	23	25	
15,919	4.095	24	18	14	10	6	3	2	23	25	km 15 = 1017m
16,000	4.102	32	21	16	11	6	4	3	23	25	
16,080	4.117	21	14	11	8	5	2	2	23	25	
16,158	4.110	34	24	17	12	6	3	2	23	25	
16,239	4.102	37	22	16	11	6	3	2	23	25	
16,319	4.110	28	19	15	11	6	3	2	23	25	
16,400	4.117	30	20	16	11	7	4	2	23	25	
16,482	4.095	23	16	13	10	6	4	3	23	25	
16,561	4.074	30	21	16	11	6	4	3	23	25	
16,642	4.074	32	22	16	11	6	4	3	23	25	
16,721	4.045	37	25	18	12	8	5	4	23	25	
16,803	4.059	35	23	17	12	7	4	3	23	25	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,000 ao km 24,820							DATA: Abril/2007		
PISTA: Dupla / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
16,880	4.052	42	29	21	14	7	4	3	23	25	km 16 = 1000m
16,959	4.059	33	24	19	13	7	4	3	23	25	
17,039	4.088	22	17	14	11	7	3	2	23	25	
17,121	4.052	35	26	22	17	13	9	7	23	25	
17,201	4.059	33	22	17	13	9	6	4	23	25	
17,290	4.074	33	26	20	15	10	6	5	23	25	
17,369	4.081	25	16	12	9	6	4	3	23	25	
760,000	4.081	32	23	18	14	10	7	5	23	25	
17,360	4.002	35	24	19	15	10	6	5	23	25	
17,440	4.066	30	21	17	12	8	6	4	23	25	
17,521	4.002	33	26	21	16	10	6	5	23	25	
17,602	4.052	37	25	19	14	8	5	4	23	25	
17,682	4.052	30	20	16	12	8	5	4	23	25	km 17 = 1000m
17,920	4.095	34	25	19	13	8	5	4	23	25	
18,000	4.045	32	22	17	12	8	5	3	23	25	
18,000	4.218	25	16	14	11	7	5	3	22	23	
18,080	4.196	29	17	14	10	7	5	4	22	23	
18,161	4.203	34	21	16	11	6	4	3	21	23	
18,240	4.203	30	21	18	13	8	4	3	21	23	
18,320	4.196	31	20	16	11	5	3	2	21	23	
18,400	4.218	25	16	13	8	4	2	2	21	23	
18,481	4.167	25	15	12	8	4	2	1	21	23	
18,560	4.218	32	20	17	11	5	3	1	21	23	
18,641	4.211	27	17	14	10	5	3	2	21	23	
18,720	4.211	33	20	17	11	6	4	2	21	23	
18,801	4.218	9	6	6	6	4	3	2	21	23	
18,881	4.211	30	21	18	14	9	5	3	21	23	km 18 = 1000m
18,963	4.146	38	26	24	18	11	7	5	21	23	
19,042	4.153	41	28	26	21	13	8	5	21	24	
19,122	4.167	41	29	27	21	14	8	6	21	23	
19,200	4.131	40	29	26	20	14	8	5	21	23	
19,282	4.196	16	12	12	10	8	6	5	21	24	
19,360	4.196	25	15	13	10	7	5	4	21	24	
19,422	4.182	29	18	16	13	9	6	5	21	24	
19,520	4.182	25	14	13	10	7	5	4	21	24	
19,604	4.196	26	16	14	10	7	4	3	21	24	
19,681	4.182	25	15	14	11	7	4	2	21	24	
19,761	4.182	16	11	10	8	6	3	2	21	24	
19,842	4.189	11	7	6	4	2	1	1	21	24	km 19 = 1020m
19,923	4.175	32	18	14	10	6	4	2	21	24	
20,000	4.146	37	25	21	16	9	5	3	21	24	
20,081	4.182	22	16	15	11	8	5	3	21	23	
20,160	4.196	23	16	15	12	8	5	3	21	24	
20,243	4.160	17	12	12	9	7	5	3	21	24	
20,320	4.189	19	13	13	11	7	5	3	21	24	
20,398	4.175	36	25	23	18	11	6	4	21	24	
20,480	4.146	46	34	31	26	9	5	3	21	24	
20,561	4.175	23	14	14	11	8	5	3	21	24	
20,641	4.182	18	12	12	9	6	3	2	21	24	
20,722	4.160	25	19	18	14	11	7	4	21	24	
20,802	4.167	30	19	17	12	8	5	3	21	24	
20,880	4.182	24	17	17	13	9	5	3	21	24	
20,960	4.175	27	18	16	12	8	4	3	21	24	km 20 = 985m
21,042	4.160	31	20	18	14	7	5	3	21	24	
21,120	4.124	66	31	26	17	7	4	3	21	24	
21,200	4.066	65	41	26	14	10	6	4	21	24	
21,280	4.131	44	29	27	21	13	8	6	21	24	
21,360	4.182	20	16	16	14	12	8	6	21	24	
21,441	4.189	17	12	11	8	6	3	2	21	24	
21,520	4.153	30	20	17	10	6	3	3	21	24	
21,600	4.117	46	27	19	8	5	3	3	21	24	
21,681	4.175	19	12	10	7	4	2	1	21	24	
21,761	4.160	17	12	11	8	5	3	2	21	24	
21,842	4.153	26	18	17	7	3	1	1	21	24	km 21 = 1000m
21,920	4.131	51	32	12	10	7	4	4	21	24	
22,000	4.153	18	12	11	8	5	3	2	21	24	
22,080	4.167	19	13	11	8	5	3	2	21	24	
22,161	4.175	20	14	13	10	6	4	2	21	24	
22,241	4.131	21	13	12	9	5	3	1	21	24	
22,321	4.196	26	17	14	10	5	2	2	21	24	

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA:	Crescente	FAIXA: Simples									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
24,882	4.088	54	32	26	17	10	6	4	24	26	km 24 = 1000m
24,960	4.052	60	35	28	18	10	6	5	24	26	
25,040	4.081	72	43	34	24	13	8	6	24	26	
25,118	4.095	36	23	21	15	10	6	4	24	26	
25,201	4.074	49	34	30	21	13	8	5	24	26	
25,280	4.102	39	26	23	17	11	7	5	24	26	
25,358	4.081	37	25	24	18	12	7	5	24	26	
25,440	4.066	45	30	29	22	15	9	6	24	26	
25,521	4.059	54	36	30	23	15	8	6	24	26	
25,601	4.088	44	33	24	18	12	7	5	24	26	
25,682	4.088	26	19	18	15	11	7	5	24	26	
25,762	4.074	41	35	27	20	11	7	5	24	26	
25,840	4.059	46	33	30	22	13	7	5	24	26	
25,919	4.081	35	28	20	15	9	6	5	24	26	km 24 = 1000m
26,000	4.081	35	25	23	18	12	7	5	24	26	
26,081	4.095	38	26	24	17	10	5	3	24	26	
26,162	4.081	41	27	25	19	12	7	5	24	26	
26,242	4.088	37	26	25	19	12	7	5	25	26	
26,323	4.102	40	28	26	20	13	8	5	25	26	
26,400	4.081	44	30	27	20	13	8	5	25	26	
26,480	4.088	30	22	21	17	11	7	4	25	26	
26,561	4.088	23	15	14	11	8	5	4	25	26	
26,640	4.102	26	19	18	14	9	5	3	25	26	
26,717	4.052	25	18	17	14	9	6	4	25	27	
26,798	4.095	28	19	18	14	9	5	3	25	26	
26,878	4.095	26	18	17	13	8	4	3	25	27	
26,958	4.081	31	21	20	15	10	5	4	25	27	km 26 = 1000m
27,040	4.074	35	24	23	19	13	7	5	25	27	
27,121	4.059	30	22	22	18	13	8	6	25	27	
27,202	4.074	35	24	22	17	11	7	5	25	27	
27,282	4.059	46	32	30	23	15	8	5	25	27	
27,362	4.059	27	20	19	15	10	6	4	25	27	
27,440	4.066	29	21	20	16	10	6	4	25	27	
27,521	4.052	41	28	25	18	12	7	5	25	27	
27,602	4.059	45	30	27	20	11	6	4	25	27	
27,680	4.023	31	21	20	14	9	6	4	25	27	
27,761	4.066	23	16	16	13	9	5	4	25	27	
27,842	4.066	26	19	19	16	12	7	5	25	27	
27,920	4.052	26	18	18	15	11	7	5	25	27	km 27 = 1000m
28,000	4.074	28	22	21	17	12	7	5	25	28	
28,080	4.066	25	18	18	15	11	6	4	25	28	
28,161	4.038	33	25	25	21	15	9	5	25	28	
28,242	4.052	29	21	21	17	12	8	6	25	28	
28,320	4.038	33	22	21	17	12	7	6	25	28	
28,398	4.052	42	25	23	18	12	7	5	25	28	
28,478	4.030	33	23	22	17	12	7	5	25	28	
28,559	4.052	35	25	24	20	13	8	6	25	28	
28,640	4.074	27	19	18	15	10	6	4	25	28	
28,719	4.074	24	17	16	13	9	5	4	25	28	
28,801	4.059	22	16	16	13	9	6	4	25	28	
28,880	4.074	27	19	18	14	10	6	4	25	28	
28,960	4.066	24	18	17	14	10	6	4	25	28	km 28 = 1000m
29,043	4.074	24	17	17	14	10	6	5	25	28	
29,120	4.052	47	32	30	22	14	9	6	25	28	
29,202	4.045	34	23	23	18	13	8	6	27	28	
29,283	4.081	23	16	16	13	9	6	4	27	28	
29,360	4.066	25	17	16	14	10	6	5	27	28	
29,441	4.095	25	17	16	14	9	6	4	27	28	
29,521	4.095	20	14	14	11	8	5	4	27	28	
29,602	4.059	40	28	27	22	15	8	6	27	29	
29,680	4.088	21	15	15	13	9	6	4	27	29	
29,761	4.066	37	24	22	16	10	6	5	27	28	
29,840	4.074	28	20	19	15	11	6	4	27	29	
29,921	4.045	38	26	24	18	11	6	5	27	28	km 29 = 1000m
30,000	4.038	39	27	25	18	11	6	4	27	28	
30,082	4.023	64	40	35	24	14	8	6	27	28	
30,160	4.045	40	28	27	21	14	8	6	27	29	
30,240	4.038	32	22	21	16	11	6	4	27	29	
30,323	4.038	44	30	28	21	14	8	5	27	29	
30,402	4.016	51	36	34	26	15	8	5	27	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG		TRECHO: km 24,820 ao km 157						DATA: Abril/2007		
PISTA:	Crescente		FAIXA: Simples								
SENTIDO:	DF/MG		ENSAIO: a cada 80 m								
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
30,480	4.023	39	29	29	24	16	10	7	27	29	
30,560	4.016	38	27	26	21	14	9	6	27	29	
30,641	4.066	34	24	23	18	12	6	4	27	29	
30,720	4.038	39	29	27	21	14	8	6	27	29	
30,802	4.038	43	31	30	23	15	9	7	27	29	
30,883	4.002	34	23	22	18	12	8	6	27	29	
30,960	4.030	39	27	26	20	13	8	6	27	29	km 30 = 1013m
31,040	4.059	34	24	24	19	13	8	5	27	29	
31,121	4.023	39	28	28	22	15	9	6	27	29	
31,201	4.052	33	24	23	18	12	8	6	27	29	
31,283	4.030	36	25	25	20	14	8	6	27	29	
31,361	4.023	46	34	33	24	13	7	4	27	29	
31,442	4.045	32	22	22	17	12	7	6	27	29	
31,520	4.081	40	28	25	18	11	6	5	27	29	
31,602	4.052	38	26	24	18	12	6	4	27	30	
31,682	4.038	45	30	27	20	12	7	5	27	30	
31,762	4.023	45	32	30	23	15	9	6	27	30	
31,840	4.066	36	25	22	16	10	6	5	27	30	
31,921	4.045	39	27	26	19	12	7	6	27	29	km 31 = 991m
32,000	4.023	38	27	26	20	13	7	5	27	29	
32,080	4.002	38	27	25	20	13	7	6	27	29	
32,160	4.009	52	34	31	24	14	8	6	27	29	
32,243	4.045	38	26	24	18	12	7	6	27	29	
32,320	4.059	31	23	21	16	11	7	5	27	29	
32,401	4.052	43	27	25	18	11	6	4	27	29	
32,480	4.002	43	29	27	20	12	6	4	28	30	
32,560	4.038	47	31	28	21	13	8	6	28	30	
32,641	4.023	55	36	32	24	15	9	7	28	30	
32,721	4.038	27	17	16	12	8	5	3	28	30	
32,803	4.045	37	23	21	16	10	5	4	28	30	
32,880	4.023	52	33	29	20	13	7	5	28	30	
32,959	4.023	49	34	32	25	16	10	7	28	30	km 32 = 1000m
33,040	4.038	28	20	21	17	12	8	6	28	30	
33,121	4.016	56	36	32	23	14	8	5	28	30	
33,200	4.009	52	33	30	22	15	9	6	28	30	
33,282	4.030	43	30	28	21	14	8	6	28	30	
33,362	4.023	40	25	22	16	10	6	5	28	30	
33,440	3.994	51	32	28	19	11	6	4	28	30	
33,520	4.009	42	27	25	19	12	6	5	28	30	
33,600	4.023	41	28	27	21	14	7	5	28	30	
33,681	4.045	24	16	15	12	8	5	4	28	30	
33,762	4.023	44	30	28	22	14	8	6	28	30	
33,842	4.016	41	28	26	20	12	7	5	28	30	
33,920	4.002	49	33	30	22	13	7	5	28	30	km 33 = 1000m
34,000	4.002	43	31	29	23	15	8	6	28	30	
34,080	4.009	40	26	24	18	12	7	6	28	30	
34,159	4.002	49	32	29	22	14	8	6	28	30	
34,220	4.023	49	34	31	24	16	9	6	28	30	
34,318	4.045	36	24	22	16	10	6	5	28	30	
34,400	4.023	36	25	24	19	12	7	5	28	30	
34,480	4.016	42	29	28	22	15	9	6	28	30	
34,560	4.009	61	40	37	23	14	8	6	28	30	
34,641	4.030	40	27	25	19	12	7	6	28	30	
34,721	4.016	36	25	24	20	14	8	6	28	30	
34,802	4.023	33	22	21	16	10	6	5	28	30	
34,881	4.009	40	27	25	20	13	7	5	28	30	
34,960	3.987	48	32	28	20	12	6	5	28	30	km 34 = 1000m
35,040	3.994	60	36	30	20	12	7	5	28	30	
35,120	4.038	37	25	24	18	12	6	5	28	30	
35,202	4.030	29	20	19	14	9	5	4	28	30	
35,281	4.009	44	29	26	19	12	7	4	28	30	
35,363	4.045	34	20	18	13	8	5	3	28	30	
35,440	4.030	35	23	22	16	10	6	4	28	30	
35,522	4.030	37	24	22	16	9	5	3	28	30	
35,602	4.045	33	21	20	15	9	5	3	28	30	
35,681	4.016	55	30	26	18	10	6	5	28	30	
35,762	4.030	53	30	24	16	8	4	4	28	30	
35,840	3.994	45	31	29	17	11	6	5	28	30	
35,920	4.030	34	22	20	15	10	5	4	28	30	km 35 = 1000m
36,000	4.038	31	22	21	17	12	7	5	28	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA:	Crescente	FAIXA: Simples									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
36,080	4.045	31	21	20	15	9	5	5	28	30	
36,161	4.052	33	22	21	17	11	6	4	28	31	
36,242	3.987	64	37	33	24	14	8	5	28	30	
36,321	4.030	61	38	31	22	13	7	4	28	30	
36,400	4.045	69	39	31	20	10	5	4	28	30	
36,479	4.023	43	25	22	16	9	5	4	28	31	
36,560	4.023	50	29	24	17	10	7	6	28	31	
36,641	4.045	31	19	18	13	9	6	5	28	31	
36,723	4.052	36	20	16	11	6	3	2	28	31	
36,803	4.016	26	17	17	14	10	7	5	28	31	
36,880	4.002	40	21	19	14	9	6	4	28	31	
36,959	4.009	33	20	19	15	11	7	5	28	31	km 36 = 1000m
37,040	3.994	53	32	29	21	11	7	6	28	30	
37,120	4.002	61	35	30	22	14	8	5	28	31	
37,202	4.023	59	36	31	22	14	8	6	28	31	
37,281	4.016	60	36	30	22	13	7	6	28	31	
37,362	4.023	58	34	28	18	11	7	7	28	31	
37,442	4.002	67	39	33	23	15	9	7	28	31	
37,520	4.009	54	32	29	20	11	5	4	28	31	
37,600	4.002	54	35	30	22	14	7	5	28	31	
37,682	3.994	65	40	35	25	15	8	6	28	31	
37,762	3.980	52	33	30	22	13	8	7	28	31	
37,841	3.929	60	36	31	23	15	9	7	28	31	
37,922	3.987	71	41	34	24	15	9	7	28	32	km 37 = 1000m
38,000	4.016	41	28	27	21	15	10	8	28	31	
38,080	3.994	56	30	27	19	13	8	6	28	32	
38,161	4.016	54	31	26	18	12	7	6	30	31	
38,242	4.016	53	33	31	24	15	9	7	30	31	
38,322	4.009	43	26	25	19	13	8	6	30	31	
38,400	4.023	46	30	28	22	15	9	7	30	32	
38,480	4.016	45	31	28	21	13	8	6	30	32	
38,558	4.002	65	37	31	21	13	7	6	30	31	
38,642	4.023	57	32	28	20	13	8	6	30	32	
38,720	4.009	51	30	28	22	14	8	6	30	31	
38,802	4.009	60	36	32	23	14	7	5	30	32	
38,882	4.016	63	37	33	24	15	10	8	30	32	
38,960	4.023	47	30	29	22	15	9	8	30	32	km 38 = 1000m
39,040	4.030	44	30	28	21	13	8	6	30	32	
39,120	4.009	55	32	27	19	12	7	6	30	33	
39,201	4.045	52	29	25	17	10	6	6	30	32	
39,281	4.045	57	34	29	20	11	6	6	30	32	
39,362	4.009	63	37	32	23	14	8	6	30	32	
39,440	4.023	62	37	31	21	13	9	7	30	32	
39,521	4.045	42	26	24	18	11	7	5	30	32	
39,601	4.045	29	16	15	11	7	4	2	30	32	
39,681	4.066	22	12	10	7	4	2	1	30	32	
39,762	4.038	30	14	11	7	4	2	1	30	32	
39,842	4.045	36	22	20	15	9	5	3	30	32	
39,920	4.002	55	31	27	19	12	7	5	30	31	km 39 = 1000m
40,000	4.009	59	34	30	21	12	7	5	30	32	
40,080	3.980	65	36	32	23	14	8	7	30	31	
40,161	3.987	66	38	33	24	15	9	7	30	31	
40,242	4.023	54	31	27	20	12	7	6	30	31	
40,320	4.002	58	35	30	21	12	7	6	30	30	
40,401	4.016	62	35	29	20	11	6	5	30	31	
40,479	4.016	54	32	29	21	14	8	5	30	31	
40,561	4.016	48	30	27	19	12	6	5	30	30	
40,641	4.023	49	31	27	19	12	7	5	30	31	
40,722	4.016	59	35	31	21	12	6	4	30	30	
40,800	4.030	36	23	22	17	11	7	5	30	31	
40,879	4.074	29	16	13	8	4	2	1	30	30	
40,959	4.052	22	10	8	5	3	2	1	30	31	km 40 = 1000m
41,041	4.066	22	11	9	7	4	3	2	30	31	
41,120	4.052	31	17	15	11	8	5	4	30	31	
41,200	4.002	57	35	31	23	15	9	7	30	31	
41,282	4.052	31	19	16	12	7	4	3	30	30	
41,360	4.052	34	17	13	8	4	3	2	30	30	
41,440	3.922	94	65	57	43	29	17	11	30	31	
41,522	3.937	66	38	35	28	20	13	9	30	30	
41,602	3.973	59	38	36	30	22	14	10	30	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:		km 24,820 ao km 157		DATA:		Abril/2007			
PISTA:	Crescente	FAIXA:		Simples							
SENTIDO:	DF/MG	ENSAIO:		a cada 80 m							
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
41,680	4.016	46	26	23	18	12	8	6	30	30	
41,760	4.009	40	24	24	20	16	11	8	30	30	
41,842	4.002	48	30	30	26	20	14	10	30	30	
41,923	3.987	48	32	34	29	22	15	11	30	30	km 41 = 1000m
42,000	3.929	94	58	51	36	21	11	6	30	30	
42,080	3.929	80	56	54	44	33	21	14	30	30	
42,162	3.901	95	61	58	48	34	21	15	30	30	
42,242	4.002	42	27	26	21	15	10	8	30	30	
42,320	3.994	58	38	36	29	21	13	9	30	30	
42,403	3.937	89	63	58	45	29	16	9	30	29	
42,487	4.009	36	18	15	11	8	6	5	30	29	
42,557	4.030	37	22	20	15	10	7	6	30	29	
42,639	3.901	65	35	28	19	13	9	7	30	30	
42,720	4.023	61	34	26	17	11	6	5	30	29	
42,799	4.009	62	39	33	23	14	8	6	30	30	
42,882	3.973	76	45	38	26	15	8	6	30	29	
42,962	4.030	36	21	17	11	6	3	4	30	29	km 42 = 1000m
43,040	3.987	47	30	28	20	13	7	6	30	30	
43,121	3.987	64	41	38	28	17	9	5	30	29	
43,202	4.045	49	30	27	19	12	7	5	30	29	
43,283	4.009	50	33	31	25	17	10	6	28	30	
43,363	4.016	52	35	32	23	14	8	4	28	30	
43,443	4.052	32	20	17	12	8	5	3	28	30	
43,520	4.002	72	42	38	28	18	10	7	28	30	
43,598	4.002	56	35	31	23	15	9	7	28	30	
43,679	3.980	67	43	40	30	20	11	8	28	30	
43,761	4.009	39	26	25	19	13	7	5	28	30	
43,841	4.023	29	19	19	16	11	6	4	28	30	
43,922	3.980	48	35	36	30	22	13	10	28	30	km 43 = 1000m
44,000	3.937	60	34	32	25	17	11	8	28	30	
44,080	4.002	47	30	28	21	13	8	6	28	30	
44,162	3.987	42	27	26	21	15	9	7	28	31	
44,242	3.951	61	45	47	41	33	22	16	28	31	
44,322	4.045	23	15	14	11	8	5	4	28	30	
44,402	4.009	40	24	21	16	10	6	4	28	30	
44,480	4.059	23	13	11	9	6	4	3	28	30	
44,558	4.074	25	12	11	8	5	3	3	28	30	
44,639	4.023	46	29	27	21	15	10	8	28	31	
44,721	4.038	25	14	12	9	6	4	3	28	31	
44,800	4.038	50	34	32	24	15	9	6	28	31	
44,877	4.009	55	37	35	28	20	13	10	28	31	
44,962	4.009	35	24	24	21	16	10	8	28	31	km 44 = 1000m
45,042	4.038	18	13	13	11	9	6	5	28	31	
45,123	4.045	19	13	13	11	9	6	5	28	31	
45,200	3.987	58	35	33	25	16	9	5	28	31	
45,280	3.857	114	78	72	56	36	19	11	28	31	
45,340	3.901	96	60	53	38	24	13	9	28	31	
45,417	3.951	70	38	33	25	17	11	8	28	31	
45,520	3.901	60	39	36	29	20	12	9	28	32	
45,601	3.872	110	72	64	47	28	16	12	28	32	
45,680	3.966	102	53	40	25	13	7	5	28	31	
45,761	4.009	73	40	31	20	12	7	5	30	32	
45,842	4.045	25	13	11	8	5	4	3	30	32	
45,920	4.045	30	17	15	11	8	5	4	30	32	km 45 = 1000m
46,000	4.038	33	17	16	12	9	6	5	30	32	
46,081	4.030	39	24	21	15	10	6	5	30	32	
46,163	4.045	29	16	14	10	5	3	2	30	32	
46,240	4.009	27	18	18	16	12	8	6	30	33	
46,318	4.002	48	28	28	23	17	11	8	30	32	
46,398	4.030	22	13	12	9	6	3	2	30	33	
46,480	4.023	20	12	11	8	5	3	3	30	33	
46,559	3.966	61	37	32	22	13	7	5	30	33	
46,637	4.002	40	21	16	11	8	5	5	30	33	
46,720	4.002	46	24	19	14	9	5	4	30	33	
46,800	3.980	62	30	23	15	9	6	5	30	33	
46,880	3.987	43	26	24	17	11	6	5	30	33	
46,960	3.987	48	30	27	19	10	6	4	30	33	km 46 = 1000m
47,041	3.994	38	24	22	17	11	7	5	30	33	
47,123	3.980	48	31	29	22	15	9	7	30	33	
47,202	3.994	53	33	30	22	14	8	6	30	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
47,280	4.009	37	20	16	10	6	4	3	30	33	
47,361	3.937	96	54	45	30	16	8	5	30	33	
47,440	4.016	34	15	12	7	4	3	3	31	33	
47,521	3.937	72	41	36	26	16	10	7	31	33	
47,600	3.987	40	20	16	12	8	6	5	31	33	
47,680	3.951	65	36	31	22	13	7	5	31	33	
47,760	3.973	39	22	20	15	10	6	5	31	33	
47,842	3.886	93	52	46	32	18	9	6	31	33	
47,923	4.016	28	15	12	8	4	3	2	31	33	km 47 = 1000m
48,000	4.002	35	20	18	13	8	5	3	31	33	
48,083	3.987	46	35	31	23	17	10	7	31	33	
48,162	4.009	40	23	22	16	10	5	3	31	33	
48,242	3.980	49	30	26	18	12	7	6	31	33	
48,322	4.002	50	30	25	18	11	6	5	31	33	
48,400	3.879	103	70	65	50	32	18	12	31	33	
48,483	3.922	88	58	54	42	27	15	10	31	33	
48,560	3.994	69	41	32	20	10	5	4	31	33	
48,641	3.987	46	25	20	13	7	3	2	31	32	
48,719	3.966	40	23	19	14	10	7	6	31	33	
48,799	3.829	106	75	77	65	48	29	20	31	33	
48,880	3.980	42	30	30	25	19	12	9	31	33	
48,960	3.872	114	74	65	47	29	15	9	31	33	km 48 = 1000m
49,041	3.973	65	40	36	27	18	10	7	31	33	
49,121	3.958	42	26	26	22	17	11	8	31	33	
49,202	4.002	25	11	9	7	5	4	3	31	33	
49,281	3.901	78	48	45	35	26	16	12	31	33	
49,362	3.922	62	36	34	26	18	11	8	31	33	
49,441	4.009	19	9	9	7	5	3	2	31	33	
49,520	4.002	36	21	17	12	7	3	2	31	33	
49,598	4.002	21	11	8	5	3	1	1	31	33	
49,680	3.865	123	77	69	52	35	20	14	31	33	
49,760	3.922	86	46	36	24	13	6	4	31	33	
49,840	3.966	86	45	34	22	10	4	2	31	33	
49,921	3.958	67	36	30	18	9	4	2	31	33	km 49 = 1000m
50,000	4.009	24	14	12	8	5	2	2	31	33	
50,081	3.994	42	27	24	16	8	3	2	31	33	
50,162	4.030	25	14	12	8	4	2	1	31	33	
50,240	4.038	23	14	12	8	4	2	1	31	33	
50,320	3.973	53	27	21	13	6	2	1	31	33	
50,402	4.016	61	31	24	15	7	3	1	31	33	
50,480	4.045	28	15	12	8	4	2	1	31	33	
50,563	4.038	25	14	12	9	5	3	2	31	33	
50,640	4.030	26	14	12	8	4	2	2	31	33	
50,717	4.016	29	16	13	8	4	2	2	31	34	
50,797	4.009	35	21	18	13	7	3	2	31	34	
50,879	4.009	33	20	18	13	8	4	3	31	34	
50,959	4.009	49	30	25	16	9	5	4	31	34	km 50 = 1000m
51,039	3.980	48	29	25	16	8	4	4	31	33	
51,120	3.951	60	36	30	21	11	6	4	31	34	
51,201	4.009	54	31	25	16	8	5	4	31	34	
51,281	3.966	62	34	28	18	9	4	3	31	33	
51,362	4.002	57	31	27	18	9	5	5	31	34	
51,442	3.973	60	34	30	21	11	7	6	31	34	
51,520	3.980	65	37	30	20	11	6	5	31	34	
51,598	3.994	59	31	26	17	9	5	4	31	34	
51,680	3.987	56	32	27	18	10	5	5	31	34	
51,761	3.973	65	39	34	23	13	7	5	31	34	
51,841	4.009	45	29	25	17	10	5	3	31	34	
51,922	4.002	52	25	18	11	6	4	3	31	33	km 51 = 1000m
52,000	4.009	44	21	17	10	5	3	2	31	33	
52,080	4.030	50	25	19	11	5	2	2	31	34	
52,160	3.980	80	42	31	17	7	3	2	31	34	
52,242	4.023	48	23	15	8	4	2	2	31	34	
52,323	4.023	31	17	13	8	3	2	1	31	33	
52,400	3.994	53	26	17	9	5	3	3	31	33	
52,481	4.023	35	19	16	11	6	4	3	31	33	
52,562	4.023	35	17	12	7	4	3	2	31	33	
52,643	3.843	138	94	90	72	51	31	22	31	33	
52,720	3.901	89	55	50	36	22	12	7	31	33	
52,802	3.843	133	91	82	62	38	20	11	31	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
52,882	3.958	75	44	36	24	14	7	4	31	33	km 52 = 1000m
52,960	3.944	81	49	41	27	15	8	5	31	33	
53,041	3.922	73	44	39	29	17	9	6	31	33	
53,121	3.922	83	49	43	32	21	12	8	31	32	
53,200	3.951	63	40	38	30	20	12	8	31	32	
53,278	3.929	73	47	42	32	20	11	7	31	33	
53,359	3.973	62	40	39	32	22	13	9	31	32	
53,441	3.879	63	41	38	28	20	12	10	31	32	
53,520	3.929	47	32	31	26	19	12	9	31	32	
53,600	3.973	69	37	31	22	14	9	7	31	32	
53,680	3.915	108	65	57	43	27	16	11	31	32	
53,760	3.980	63	37	35	27	19	11	8	31	32	
53,841	3.973	62	40	36	26	17	9	7	31	32	km 53 = 1000m
53,922	4.030	48	26	21	14	7	4	3	31	32	
54,000	4.038	44	27	22	14	8	4	3	31	32	
54,080	3.994	44	24	19	13	8	5	4	31	31	
54,160	3.994	50	28	23	16	9	6	5	31	31	
54,241	3.987	51	31	27	19	12	7	6	31	31	
54,323	3.966	57	33	31	24	16	10	8	31	32	
54,400	4.016	47	30	26	19	12	7	7	31	32	
54,480	3.966	66	40	37	27	17	10	8	31	32	
54,562	3.980	58	33	30	21	13	8	7	31	32	
54,641	4.009	43	25	22	15	8	5	4	31	32	
54,723	3.966	64	41	37	26	16	10	8	31	31	
54,800	3.973	55	33	29	21	13	9	8	31	32	
54,880	3.994	58	36	30	21	11	6	5	31	32	
54,957	3.987	51	34	31	23	14	9	7	31	32	km 54 = 1000m
55,040	4.030	51	31	27	19	11	6	5	31	32	
55,121	4.030	32	20	18	13	8	5	4	31	32	
55,201	4.016	34	20	19	14	10	6	5	31	32	
55,282	4.016	37	20	17	13	8	6	5	31	32	
55,362	4.002	46	28	24	16	10	6	5	31	32	
55,440	3.994	62	39	32	22	12	7	6	31	32	
55,522	3.994	37	24	21	16	10	6	6	31	32	
55,600	4.009	33	19	17	13	8	5	4	31	33	
55,680	3.973	75	42	33	22	12	6	5	31	32	
55,760	3.987	37	17	15	10	6	4	3	31	33	
55,841	4.002	31	20	18	14	9	5	5	31	33	
55,921	3.966	49	29	24	16	9	5	5	31	33	km 55 = 1000m
56,000	3.973	62	34	27	16	9	5	5	31	33	
56,081	3.951	84	46	34	19	9	5	4	31	33	
56,162	3.886	47	26	20	14	9	5	5	31	33	
56,242	3.966	41	23	20	14	8	5	4	31	33	
56,322	3.937	83	48	40	26	13	6	5	31	33	
56,403	3.994	81	45	37	24	12	6	4	31	33	
56,480	3.966	73	41	36	25	13	7	5	31	33	
56,561	3.973	80	47	40	27	13	6	6	31	33	
56,642	3.966	66	38	30	20	11	6	5	31	33	
56,722	3.966	73	39	33	22	13	7	5	31	33	
56,802	3.987	62	36	29	18	9	5	4	31	33	
56,883	3.980	67	41	35	24	14	8	6	31	33	
56,963	3.958	78	42	32	19	10	5	4	31	33	km 56 = 1000m
57,040	4.146	65	47	33	22	12	7	5	22	24	
57,122	4.182	67	46	34	24	13	8	5	22	24	
57,202	4.167	76	49	34	22	12	7	5	22	25	
57,280	4.182	51	30	20	13	7	5	4	22	25	
57,360	4.189	51	35	25	17	11	6	5	22	25	
57,441	4.088	71	53	43	29	20	12	8	22	24	
57,522	4.189	26	21	18	15	11	7	5	22	25	
57,600	4.139	50	40	32	24	16	10	6	22	25	
57,679	4.074	78	66	52	39	25	16	11	22	25	
57,760	4.117	68	54	45	35	23	14	9	22	24	
57,841	4.167	26	22	20	17	13	9	6	22	25	
57,922	4.153	43	41	29	21	14	9	6	22	25	km 57 = 1000m
58,000	4.146	40	33	29	24	17	11	7	22	25	
58,080	4.124	68	47	35	26	17	9	7	22	25	
58,160	4.139	69	50	40	29	17	10	6	22	25	
58,242	4.081	111	79	60	41	23	12	7	22	25	
58,322	4.153	72	47	36	25	16	10	7	22	25	
58,400	4.088	73	50	37	26	15	9	6	22	25	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA:	Crescente	FAIXA: Simples									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
58,478	4.182	59	35	27	18	9	4	2	22	25	
58,559	4.095	84	59	45	32	18	10	6	22	25	
58,639	4.102	72	54	44	34	21	11	7	22	25	
58,721	4.175	49	36	27	18	12	8	6	22	25	
58,800	4.131	61	47	34	25	15	9	5	22	25	
58,881	4.139	55	38	29	21	13	8	6	22	25	
58,962	4.110	63	45	34	25	15	9	7	22	25	km 58 = 1000m
59,040	4.074	81	58	45	33	21	13	8	22	25	
59,121	4.117	51	40	33	25	17	11	7	22	25	
59,202	4.160	33	31	30	26	22	16	11	22	26	
59,283	4.095	65	48	38	29	19	12	9	22	26	
59,363	4.110	71	52	42	32	21	13	10	22	26	
59,442	4.131	69	52	42	31	20	12	9	22	25	
59,520	4.102	57	42	33	24	16	11	8	22	25	
59,601	4.045	99	76	59	43	26	15	10	22	25	
59,680	4.088	89	69	59	37	22	12	8	22	25	
59,760	4.139	45	37	32	27	19	12	8	22	26	
59,840	4.124	51	40	34	28	19	12	8	22	26	
59,921	4.117	40	31	26	20	13	8	5	22	26	km 59 = 1000m
60,000	4.146	42	30	23	16	10	6	5	22	26	
60,081	4.102	70	55	44	31	18	10	6	22	26	
60,162	4.002	110	85	67	46	26	13	7	22	26	
60,240	4.095	67	46	35	23	13	7	5	22	26	
60,318	4.088	92	69	54	38	23	13	8	22	26	
60,400	4.102	93	69	51	36	17	9	4	22	26	
60,479	4.203	13	8	6	5	3	2	1	22	26	
60,558	4.102	63	45	35	25	16	10	7	22	26	
60,640	4.117	60	44	33	23	15	8	6	22	26	
60,721	4.146	41	30	24	18	11	6	4	22	26	
60,801	4.124	38	34	31	27	20	13	9	22	26	
60,880	4.088	54	42	38	32	24	15	10	22	26	
60,957	4.102	60	50	43	36	26	17	11	22	26	km 60 = 1000m
61,037	4.052	73	55	45	34	22	12	8	22	26	
61,119	4.045	91	70	56	43	30	18	11	22	26	
61,199	4.045	94	75	61	44	25	13	9	24	26	
61,281	4.088	54	44	39	32	22	11	8	24	26	
61,360	4.081	85	61	47	33	20	12	7	24	26	início de ponte km 61,390
61,602	4.095	53	38	30	22	14	8	5	24	26	fim de ponte km 61,590
61,680	4.074	45	33	27	21	14	8	6	24	26	
61,760	4.074	42	27	22	17	11	7	5	24	27	
61,840	4.038	69	49	39	30	20	12	7	24	27	
61,922	4.088	43	32	27	21	14	9	7	24	27	km 61 = 1000m
62,001	4.088	47	33	26	20	14	9	8	24	26	
62,080	4.052	79	56	43	29	17	10	7	24	27	
62,162	4.066	49	31	23	16	10	7	6	24	27	
62,243	4.131	45	30	23	16	10	6	4	24	27	
62,322	4.139	38	26	19	14	9	6	4	24	27	
62,403	4.095	61	41	32	23	14	8	6	24	27	
62,482	4.110	44	30	24	18	11	7	6	24	27	
62,563	4.124	38	26	20	14	9	6	5	24	27	
62,641	4.095	68	45	32	22	13	8	6	24	27	
62,721	4.074	58	38	27	18	9	5	3	24	27	
62,802	4.095	49	31	22	14	7	4	3	24	27	
62,881	4.081	39	28	22	16	11	7	6	24	27	
62,961	4.052	46	34	26	19	12	8	6	24	27	km 62 = 1000m
63,041	4.074	45	31	23	16	10	6	5	24	27	
63,121	4.088	51	37	28	19	11	7	5	24	27	
63,200	4.095	32	25	21	16	11	7	5	26	27	
63,277	4.074	31	24	20	15	10	7	5	26	28	
63,357	4.117	26	21	18	14	10	6	5	26	27	
63,438	4.081	25	20	17	13	10	6	5	26	27	
63,517	4.074	26	21	18	15	11	7	5	26	27	
63,599	4.095	32	25	21	16	11	7	6	26	27	
63,678	4.066	34	28	25	20	14	9	7	26	27	
63,759	4.081	26	21	18	14	10	6	4	26	28	
63,840	4.088	40	29	24	19	13	9	7	26	27	
63,920	4.081	28	23	20	16	12	8	6	26	27	km 63 = 1000m
64,000	4.059	37	29	25	20	14	9	7	26	27	
64,081	4.016	37	28	23	18	13	9	7	26	28	
64,161	4.059	35	27	23	18	13	8	5	26	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
64,241	4.088	27	21	17	14	10	6	5	26	27	
64,321	4.066	31	24	20	15	11	8	6	26	28	
64,402	4.059	73	44	32	23	15	10	8	26	27	
64,483	4.088	63	40	30	21	12	8	5	26	27	
64,563	4.074	67	44	34	24	16	10	7	26	27	
64,640	4.110	45	32	25	18	10	6	5	26	27	
64,721	4.016	79	57	45	32	20	11	8	26	28	
64,801	4.081	32	24	20	15	11	7	5	26	28	
64,880	4.088	23	19	18	15	11	8	6	26	28	
64,960	4.074	41	29	22	17	12	7	5	26	28	km 64 = 1010m
65,040	4.074	34	24	20	14	9	6	5	26	28	
65,120	4.059	37	30	27	23	18	12	9	26	28	
65,201	4.066	29	23	20	16	12	8	6	26	28	
65,280	4.066	27	22	19	15	10	7	5	26	28	
65,360	4.074	36	25	21	16	10	6	4	26	28	
65,441	4.045	26	18	15	11	7	4	2	26	28	
65,521	4.081	26	21	19	16	12	8	6	26	28	
65,602	4.038	32	28	24	19	15	9	7	26	28	
65,680	4.038	24	18	15	12	9	6	5	26	28	
65,760	4.074	28	21	16	12	8	5	4	26	28	
65,840	4.074	47	33	25	18	10	6	4	26	28	
65,922	4.081	37	27	21	14	8	5	3	26	28	km 65 = 1000m
66,000	4.059	47	32	25	18	11	6	5	26	28	
66,081	4.052	48	37	26	19	13	8	6	26	28	
66,160	4.081	40	28	22	15	10	6	5	26	28	
66,242	4.002	62	41	32	23	15	9	7	26	28	
66,318	4.081	32	24	20	15	10	7	5	26	28	
66,401	4.045	50	35	29	21	14	9	7	26	28	
66,482	4.023	66	42	32	22	13	8	5	26	28	
66,561	4.066	42	30	24	17	11	7	5	26	28	
66,643	4.052	41	30	25	19	13	7	5	26	28	
66,720	4.088	28	21	17	13	9	5	3	26	28	
66,801	4.088	26	21	18	14	9	6	4	26	28	
66,880	4.066	29	23	21	17	13	9	6	26	28	
66,960	4.066	26	22	20	17	13	9	6	26	28	km 66 = 1034m
67,042	4.038	48	35	29	22	15	9	7	26	28	
67,121	4.038	50	39	32	24	16	9	7	26	28	
67,201	4.074	34	25	23	19	14	10	7	26	28	
67,282	4.081	33	25	21	16	11	7	5	26	28	
67,363	4.081	19	16	15	13	10	7	5	26	28	
67,440	4.088	38	27	19	13	8	5	3	26	29	
67,521	4.016	72	54	43	32	21	13	9	26	28	
67,602	3.966	88	61	47	34	20	11	8	26	29	
67,682	4.016	37	30	26	21	15	9	6	28	29	
67,760	4.059	26	22	20	18	14	9	6	28	29	
67,840	3.958	95	72	58	44	27	15	8	28	29	
67,920	4.016	78	50	35	22	11	4	2	28	29	km 67 = 1032m
68,000	4.023	33	25	20	14	9	5	3	28	29	
68,082	4.016	79	55	40	26	14	8	5	28	29	
68,162	3.966	64	49	39	28	18	11	8	28	29	início de ponte km 68,199
68,278	4.095	3	4	4	4	4	3	3	28	29	fim de ponte km 68,275
68,323	4.002	68	53	44	35	25	15	10	28	29	
68,400	4.016	43	28	20	14	8	5	4	28	29	
68,479	4.045	33	27	23	18	12	7	5	28	29	
68,560	4.088	25	19	16	12	8	5	4	28	29	
68,641	3.994	54	37	30	22	13	8	5	28	29	
68,721	4.009	57	42	33	25	16	9	7	28	29	
68,802	3.958	75	56	44	32	20	11	7	28	30	
68,880	3.937	86	65	53	41	27	16	10	28	29	
68,958	4.009	59	43	33	23	13	7	5	28	30	km 68 = 1000m
69,038	3.987	70	49	37	25	14	8	6	28	29	
69,118	4.030	40	29	24	18	12	7	6	28	30	
69,199	3.987	57	40	31	22	15	9	7	28	29	
69,279	4.038	43	33	27	21	13	7	5	28	30	
69,360	4.038	48	33	25	17	10	5	4	28	30	
69,440	4.023	63	43	32	22	13	7	6	28	30	
69,520	4.038	57	42	33	24	16	9	7	28	29	
69,602	4.016	64	45	34	24	15	8	6	28	29	
69,680	4.009	64	44	32	23	14	9	8	28	29	
69,759	4.045	46	31	22	14	8	5	3	28	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
69,841	3.980	39	29	23	17	11	6	5	28	29	km 69 = 1000m
69,920	3.994	64	45	35	26	16	9	7	28	29	
70,000	4.002	57	44	36	28	18	10	7	28	29	
70,081	3.966	74	58	48	36	23	13	9	28	29	
70,162	3.980	73	56	46	35	23	14	9	28	29	
70,241	3.973	74	56	45	34	23	14	10	28	29	
70,322	3.937	84	63	52	39	25	16	10	28	29	
70,400	3.944	77	59	50	38	26	15	10	28	29	
70,479	3.980	65	49	40	30	21	13	9	28	29	
70,561	3.980	67	49	37	27	17	10	7	28	30	
70,641	4.059	40	28	21	15	9	6	5	28	29	
70,722	4.059	58	43	33	23	15	9	7	28	30	
70,802	4.045	44	32	25	18	10	6	5	28	29	
70,880	4.002	61	41	28	18	9	5	5	28	29	
70,958	4.002	64	44	30	20	10	5	4	28	30	km 70 = 1000m
71,040	3.980	78	52	38	25	13	7	5	28	30	
71,120	3.994	50	37	28	20	12	7	6	28	30	
71,200	3.980	64	47	37	28	19	11	9	28	30	
71,280	4.009	51	37	28	18	10	6	4	28	30	
71,360	3.973	69	46	34	24	14	8	5	28	30	
71,439	4.030	44	29	23	16	9	5	4	28	30	
71,521	4.023	57	37	25	17	10	6	5	28	30	
71,602	4.002	65	43	31	20	10	5	4	28	30	
71,682	4.016	43	28	21	14	8	5	4	28	30	
71,762	4.016	40	28	21	15	9	5	4	28	30	
71,843	4.002	53	38	27	18	10	5	4	28	30	
71,924	4.038	42	29	21	14	8	5	4	28	30	km 71 = 1000m
72,000	4.016	45	34	27	19	12	7	5	28	30	
72,088	3.994	47	34	26	18	10	6	5	28	30	
72,160	4.038	32	21	16	10	5	3	2	28	30	
72,240	4.009	49	33	24	16	8	4	3	28	30	
72,320	4.038	42	31	24	17	10	5	4	28	30	
72,400	4.045	35	22	16	9	5	3	3	28	30	
72,481	4.023	45	33	25	17	10	5	4	28	30	
72,563	4.009	55	41	33	24	15	9	6	28	30	
72,642	4.002	36	26	20	14	8	5	4	28	30	
72,720	4.059	41	28	20	14	8	5	4	28	30	
72,799	4.038	41	28	21	14	9	6	5	28	30	
72,882	4.030	50	36	28	20	13	8	6	28	30	
72,961	4.038	41	28	21	16	10	7	6	28	30	km 72 = 1000m
73,041	3.987	36	26	20	15	9	6	5	28	30	
73,120	4.023	34	24	19	13	8	5	4	28	30	
73,199	4.016	55	39	30	21	14	9	7	28	30	
73,281	4.030	35	24	18	13	8	5	5	28	30	
73,361	3.994	47	36	29	21	14	8	6	28	30	
73,441	4.002	44	30	23	17	10	6	5	28	30	
73,520	4.009	60	41	30	21	11	6	5	28	30	
73,600	3.973	54	37	28	20	12	7	6	28	30	
73,681	4.009	47	32	25	17	10	5	4	28	30	
73,761	4.009	54	34	25	16	8	4	4	28	30	
73,842	4.009	54	37	28	19	11	6	4	28	30	
73,921	3.980	68	47	36	25	14	8	6	28	30	km 73 = 1000m
74,000	3.980	66	44	33	22	11	6	4	28	30	
74,080	3.958	89	60	43	28	14	8	6	28	30	
74,160	4.009	41	28	21	15	10	6	5	28	30	
74,240	3.958	67	46	34	23	14	9	7	28	30	
74,321	3.994	57	38	27	18	10	6	5	28	30	
74,402	3.987	64	42	31	22	13	8	6	28	30	
74,480	3.994	70	47	33	21	11	6	4	28	30	
74,557	4.023	41	27	20	13	7	4	3	28	30	
74,637	3.973	78	56	43	30	20	12	10	28	30	
74,717	3.951	62	43	35	26	19	12	10	28	30	
74,798	3.915	97	71	56	42	29	18	13	28	31	
74,877	3.980	68	46	34	23	14	9	6	28	31	
74,960	4.009	58	41	31	21	12	7	5	28	31	km 74 = 1000m
75,039	4.016	49	32	24	17	10	6	5	28	31	
75,121	4.002	60	43	33	24	14	8	6	28	31	
75,200	4.002	60	41	31	22	14	9	7	28	31	
75,280	3.958	74	54	43	31	19	10	7	28	30	
75,361	3.951	76	58	47	35	23	14	10	28	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA:	Crescente	FAIXA: Simples									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
75,443	3.973	70	50	39	28	17	10	7	28	30	
75,521	3.966	57	43	34	24	14	8	6	28	31	
75,603	3.994	72	48	35	24	13	7	5	28	30	
75,682	4.002	62	43	31	21	12	6	5	28	31	
75,760	3.987	66	46	35	24	13	7	5	28	31	
75,840	4.045	37	27	21	15	9	4	3	28	30	
75,920	4.038	32	25	21	16	11	6	3	28	31	km 75 = 1000m
76,000	4.052	38	28	22	17	11	6	3	28	31	
76,081	4.074	18	13	10	7	4	2	2	28	31	
76,163	4.059	23	17	14	10	6	3	2	28	30	
76,240	4.059	26	19	15	11	7	3	2	28	30	
76,322	4.052	27	19	15	11	6	3	2	28	31	
76,400	4.045	28	20	16	11	6	3	2	28	30	
76,480	4.074	14	9	7	6	3	2	1	28	30	
76,560	4.052	25	18	15	12	7	4	2	28	30	
76,620	4.066	18	13	11	8	5	3	2	28	30	
76,720	4.023	22	16	13	9	5	3	2	28	31	
76,802	4.023	25	17	13	9	5	3	2	28	30	
76,879	4.052	24	17	13	9	5	3	2	28	31	
76,961	4.081	15	11	8	6	4	2	1	28	31	km 76 = 1000m
77,042	4.066	18	12	9	7	4	2	2	28	30	
77,120	4.023	54	36	26	17	10	6	4	28	31	
77,200	4.038	59	40	28	19	11	6	5	28	31	
77,282	4.030	44	30	22	15	9	6	4	28	31	
77,362	4.038	35	25	19	14	9	6	4	28	31	
77,440	3.966	94	69	55	41	27	16	12	28	31	
77,522	3.973	80	56	42	29	17	9	7	28	31	
77,603	3.973	81	59	46	33	21	12	9	28	31	
77,682	4.016	57	39	30	20	12	7	5	28	31	
77,760	3.951	95	69	54	38	22	11	7	28	31	
77,840	4.002	73	49	36	25	14	8	6	28	31	
77,922	4.045	53	32	22	14	7	3	3	28	31	km 77 = 1000m
78,001	4.074	28	21	18	13	8	5	3	28	31	
78,082	4.059	34	27	22	17	11	5	3	28	31	
78,163	4.081	18	13	10	7	4	2	2	28	31	
78,240	4.045	15	11	9	6	3	2	1	28	32	
78,320	4.038	38	24	18	13	7	4	2	28	31	
78,401	4.095	14	10	8	6	4	2	2	28	32	
78,481	4.045	15	10	8	7	6	4	3	30	32	
78,561	4.088	16	11	9	6	4	2	2	30	32	
78,643	4.081	18	13	10	8	5	3	2	30	31	
78,720	4.052	21	16	13	10	6	3	2	30	32	
78,800	4.081	21	16	13	10	6	3	2	30	31	
78,881	4.074	18	12	10	7	5	3	2	30	31	
78,963	4.081	27	18	13	9	5	3	2	30	32	km 78 = 1000m
79,042	4.066	30	20	14	10	5	3	2	30	32	
79,123	4.088	12	8	6	5	3	2	1	30	32	
79,202	4.081	22	15	12	8	5	3	2	30	32	
79,283	4.074	35	22	16	10	5	2	1	30	32	
79,360	4.074	15	11	9	7	5	3	2	30	32	
79,441	4.095	14	9	7	6	4	2	1	30	32	
79,520	4.066	21	15	12	9	5	3	2	30	32	
79,601	4.059	17	13	10	8	5	2	1	30	32	
79,681	3.980	11	10	8	6	4	2	1	30	32	
79,763	4.066	16	11	9	6	4	2	1	30	32	
79,842	4.095	11	7	6	4	3	2	1	30	32	
79,923	4.059	18	13	11	8	5	3	2	30	32	km 79 = 1000m
80,000	4.081	22	16	13	10	6	3	2	30	32	
80,080	4.081	17	12	9	7	4	2	1	30	32	
80,160	4.059	25	19	16	13	8	4	3	30	32	
80,238	4.074	21	16	13	9	6	3	3	30	32	
80,318	4.066	20	13	9	6	3	2	2	30	32	
80,398	4.052	48	34	25	16	9	4	3	30	32	
80,480	4.088	15	9	6	4	2	2	1	30	32	
80,560	4.030	38	24	17	11	6	3	3	30	32	
80,640	4.045	19	12	9	6	3	1	1	30	32	
80,720	4.059	37	25	19	13	7	3	2	30	32	
80,800	4.045	23	15	11	8	4	2	1	30	32	
80,880	3.980	40	22	15	9	4	2	1	30	32	
80,961	4.059	15	9	7	5	3	2	1	30	32	km 80 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157								DATA: Abril/2007	
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
81,039	4.074	15	9	7	5	3	2	1	30	32	
81,121	4.088	19	13	9	7	4	2	1	30	32	
81,200	4.059	35	22	15	10	5	2	2	30	33	
81,280	4.023	32	22	15	10	5	2	1	30	32	
81,360	4.045	40	26	20	13	6	3	2	30	32	
81,440	4.023	46	29	22	14	7	3	2	30	32	
81,520	4.052	28	18	13	8	4	2	1	30	32	
81,600	4.030	25	17	12	8	4	2	1	30	32	
81,680	3.980	22	15	11	8	4	2	1	30	32	
81,760	4.045	25	16	12	8	4	2	1	30	32	
81,840	4.066	27	18	13	8	4	2	1	30	32	
81,920	4.045	31	20	15	10	4	2	1	30	32	km 81 = 1000m
82,000	4.030	25	16	12	8	4	2	1	30	32	
82,080	3.901	84	59	32	18	9	5	4	30	34	
82,160	3.915	91	54	35	17	7	4	5	30	34	
82,240	3.994	55	42	32	22	10	5	4	30	34	
82,320	3.980	62	44	35	25	13	7	5	30	34	
82,400	3.994	78	53	40	21	12	7	6	30	34	
82,480	3.872	80	49	34	21	12	7	5	30	34	
82,560	3.908	70	48	32	20	10	6	5	30	34	
82,640	3.778	66	51	36	18	9	4	4	30	34	
82,720	3.829	45	26	19	12	7	4	3	30	34	
82,800	4.009	33	22	17	12	7	4	3	30	34	
82,880	3.922	59	35	24	12	8	6	5	30	33	
82,960	3.922	66	44	31	19	9	5	4	30	33	km 82 = 1006m
83,040	3.951	75	45	30	17	9	6	5	30	33	
83,120	3.951	89	47	28	14	6	3	4	30	33	
83,200	3.929	104	55	31	18	7	4	4	30	33	
83,280	3.987	71	39	25	13	5	3	3	30	33	
83,360	3.951	99	58	37	20	9	5	5	30	33	
83,440	3.922	94	49	32	18	8	5	4	30	33	
83,520	3.951	63	40	30	20	10	5	4	30	33	
83,600	4.009	44	32	22	12	6	3	3	30	33	
83,680	3.944	66	47	28	12	7	4	4	30	33	
83,760	3.915	75	57	36	20	10	5	4	30	33	
83,840	3.980	54	38	30	21	12	6	4	30	33	
83,920	3.944	68	44	31	16	7	4	3	30	33	
84,000	3.994	45	31	24	16	8	4	3	30	33	km 83 = 1000m
84,080	3.994	34	25	19	12	7	3	3	30	33	
84,160	3.973	58	37	28	19	10	5	4	30	33	
84,240	3.980	39	27	21	14	8	5	4	30	33	
84,320	3.958	67	46	35	23	11	5	4	30	33	
84,400	3.994	50	37	29	21	10	5	4	30	33	
84,482	3.987	36	25	19	12	6	4	4	30	33	
84,560	3.857	103	69	45	27	13	5	5	30	33	
84,640	3.937	55	40	32	23	14	6	5	30	33	
84,720	3.908	119	74	50	31	16	9	8	30	33	
84,802	3.929	105	65	44	28	14	8	6	30	33	
84,883	3.908	112	67	44	26	11	5	4	30	33	
84,963	3.901	134	68	41	24	10	6	6	30	34	km 84 = 1000m
85,041	3.973	30	22	17	12	7	3	3	30	34	
85,120	3.973	24	17	13	9	5	3	3	30	34	
85,200	3.987	10	12	10	8	6	5	3	30	34	
85,280	3.958	60	44	36	26	14	6	5	30	34	
85,361	3.966	55	43	33	24	12	6	5	30	34	
85,441	3.893	72	49	34	21	10	6	5	30	34	
85,519	3.929	91	62	46	27	12	6	5	30	34	
85,602	3.994	28	21	17	12	8	5	4	30	34	
85,683	3.886	75	54	44	23	14	7	6	30	34	
85,760	3.987	30	21	17	12	7	4	4	30	34	
85,840	3.973	59	43	33	22	11	6	6	32	34	
85,922	3.994	29	21	17	11	8	5	4	32	34	km 85 = 1000m
86,000	3.958	68	54	36	25	13	6	4	32	34	
86,080	3.958	83	51	35	21	11	7	6	32	34	
86,160	3.879	92	64	51	35	19	11	8	32	34	
86,242	3.994	51	37	29	20	11	5	4	32	34	
86,322	3.980	62	35	26	17	7	4	4	32	34	
86,402	4.002	36	26	21	15	9	4	3	32	34	
86,483	3.980	44	32	26	19	11	6	4	32	34	
86,562	3.980	52	38	31	23	14	7	5	32	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
86,643	3.850	93	67	40	21	11	6	5	32	33	
86,720	3.980	40	31	25	19	11	6	4	32	33	
86,800	3.929	66	47	37	26	14	8	6	32	32	
86,882	3.915	72	55	45	26	14	8	7	32	33	
86,961	3.785	94	64	45	31	16	7	4	30	32	km 86 = 1000m
87,185	3.756	105	79	60	30	16	6	7	30	32	
87,120	3.973	29	22	18	15	10	7	5	30	32	
87,198	3.908	81	51	41	26	13	8	6	30	32	
87,278	3.980	59	42	32	23	12	6	5	30	32	
87,360	3.944	77	45	35	24	14	8	6	30	32	
87,438	3.951	75	52	38	20	8	5	5	30	32	
87,520	3.958	67	47	36	25	13	7	5	30	32	
87,600	3.973	85	78	51	33	14	7	6	30	32	
87,680	3.966	51	40	32	23	14	8	6	30	32	
87,760	3.951	59	36	27	19	11	6	6	30	31	
87,842	3.987	39	28	23	17	10	5	4	30	31	
87,922	3.987	42	30	24	17	11	6	5	30	32	km 87 = 1000m
88,001	4.002	53	35	25	15	9	6	5	30	31	
88,080	3.937	76	46	33	19	9	5	5	30	31	
88,160	3.958	44	33	26	19	12	7	6	30	31	
88,240	3.893	82	53	33	19	9	6	5	30	31	
88,321	3.958	59	39	28	19	11	7	5	30	31	
88,400	3.980	59	35	26	17	7	4	4	30	31	
88,483	4.002	26	15	11	7	4	3	3	30	31	
88,561	3.987	34	23	17	11	5	3	3	30	31	
88,640	4.002	54	36	24	14	7	4	4	30	30	
88,717	3.994	53	32	22	13	7	4	3	30	31	
88,800	3.994	42	25	16	9	4	2	2	30	30	
88,878	3.987	44	28	19	11	5	3	2	30	30	
88,959	3.987	46	27	17	10	4	2	2	30	30	km 88 = 1000m
89,039	3.973	37	24	17	11	6	3	2	30	30	
89,123	3.994	48	30	22	14	7	3	3	30	30	
89,201	3.994	45	25	16	10	5	2	1	30	30	
89,280	4.002	37	24	18	12	7	3	2	30	30	
89,362	3.994	38	25	18	12	6	3	2	30	30	
89,442	3.994	36	22	16	11	6	3	2	30	29	
89,523	4.016	32	22	17	12	7	3	2	28	29	
89,601	4.023	37	25	19	13	7	4	3	28	29	
89,680	4.002	32	20	14	9	4	3	3	28	29	
89,762	4.030	31	22	17	11	6	4	2	28	29	
89,842	4.016	29	21	15	10	6	4	3	28	29	
89,921	4.009	47	28	17	10	5	3	2	28	29	km 89 = 1000m
90,000	4.030	35	21	14	8	4	2	1	28	29	
90,081	4.030	25	13	8	5	2	2	1	28	29	
90,160	4.030	18	10	6	4	2	1	1	28	29	
90,241	3.973	48	30	21	13	8	4	3	28	29	
90,319	4.009	26	14	10	6	3	2	1	28	29	
90,399	4.016	30	21	16	11	6	3	2	28	29	
90,480	4.002	41	24	18	12	6	3	3	28	29	
90,559	4.023	31	20	14	9	4	2	1	28	29	
90,640	4.009	39	23	16	11	5	3	2	28	29	
90,719	3.973	40	25	18	11	5	3	3	28	29	
90,800	3.951	55	32	21	8	4	3	2	28	29	
90,880	4.023	25	16	12	8	4	2	2	28	28	
90,961	4.009	31	22	16	10	5	2	2	28	29	km 90 = 1000m
91,040	4.002	34	20	13	7	3	2	2	28	29	
91,120	3.994	36	23	16	10	5	3	2	28	29	
91,202	3.987	41	24	16	9	4	2	2	28	28	
91,280	4.009	42	26	18	11	6	3	3	28	29	
91,360	4.002	34	20	14	9	5	3	3	28	28	
91,441	4.023	29	18	13	8	4	2	2	28	28	
91,523	3.973	51	39	15	8	4	3	2	28	28	
91,600	3.973	46	31	18	11	5	3	2	28	28	
91,680	4.016	41	27	18	11	5	3	2	28	28	
91,758	4.030	36	25	18	12	6	3	3	28	28	
91,840	3.987	58	35	21	10	5	4	3	28	28	
91,920	4.002	44	31	24	17	10	5	3	28	28	km 91 = 1000m
92,000	4.030	30	24	19	13	7	4	3	28	28	
92,081	4.023	31	24	19	12	7	4	3	28	28	
92,160	4.023	21	16	12	8	5	3	2	28	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
92,242	3.966	70	38	24	15	8	5	4	28	28	
92,243	4.002	36	26	20	13	7	3	3	28	28	
92,323	4.030	31	23	18	13	7	4	3	28	28	
92,400	4.023	31	24	19	14	8	3	2	28	28	
92,480	4.016	34	23	17	10	4	2	2	28	28	
92,560	4.016	45	31	24	16	6	4	3	7	28	
92,640	4.009	42	28	21	14	7	4	3	27	28	
92,720	3.994	54	33	26	14	5	3	2	27	28	
92,800	4.038	29	19	14	9	4	2	2	27	28	
92,881	3.994	39	30	22	16	9	4	3	27	28	
92,962	4.038	27	20	16	12	7	4	3	27	28	km 92 = 1000m
93,043	4.009	33	24	20	15	9	5	3	27	28	
93,123	4.030	37	32	24	18	11	6	4	26	28	
93,203	4.045	33	25	21	15	9	5	3	26	28	
93,280	4.009	40	32	25	16	10	5	3	26	27	
93,360	3.994	43	31	24	16	9	4	3	26	28	
93,442	3.994	55	37	28	17	9	5	4	26	28	
93,521	3.987	50	36	26	18	10	5	4	26	28	
93,602	4.030	42	26	18	10	5	3	2	26	28	
93,682	4.023	39	26	21	14	6	3	2	26	27	
93,763	4.038	39	25	18	11	4	2	1	26	28	
93,840	4.016	43	30	23	16	9	5	3	26	27	
93,921	4.023	34	26	21	13	7	4	3	26	28	km 93 = 1000m
93,999	4.016	39	28	22	16	8	4	3	26	28	
94,080	4.030	36	25	19	13	7	4	3	26	27	
94,157	4.016	31	23	19	15	10	5	4	26	27	
94,237	4.038	34	22	17	11	6	4	3	26	27	
94,317	4.030	32	21	16	11	6	4	3	26	28	
94,398	4.023	33	24	19	14	8	5	4	26	27	
94,479	4.002	31	20	15	10	6	4	3	26	28	
94,558	3.994	40	28	22	15	8	4	2	26	27	
94,639	3.994	36	26	21	13	8	4	3	26	27	
94,719	4.002	47	34	23	16	8	4	3	26	27	
94,802	4.002	34	23	16	12	6	3	2	26	27	
94,877	4.030	36	21	15	10	5	3	2	26	27	
94,958	4.030	38	26	21	15	9	6	4	26	27	km 94 = 1011m
95,040	4.045	31	21	16	11	7	4	3	26	27	
95,121	4.038	29	17	11	7	3	2	2	26	27	
95,202	4.059	26	16	11	7	3	2	1	26	27	
95,282	4.059	27	16	11	7	3	2	2	26	27	
95,360	4.066	25	16	11	7	4	2	2	26	27	
95,442	4.038	37	26	21	14	8	5	3	26	27	
95,522	4.038	33	23	17	11	6	4	3	26	27	
95,600	4.052	35	23	17	11	6	3	3	26	27	
95,678	4.059	24	17	14	10	6	3	2	26	27	
95,758	4.045	27	19	15	10	6	3	3	26	27	
95,840	4.052	33	22	16	10	5	2	1	26	27	
95,921	4.045	31	21	16	11	6	3	2	26	27	km 95 = 1000m
96,000	4.314	28	20	14	10	5	2	2	18	23	
96,082	4.307	21	15	11	8	4	2	1	18	22	
96,161	4.329	23	18	15	12	7	4	3	18	22	
96,241	4.307	29	19	14	10	5	3	2	18	22	
96,322	4.256	28	19	15	9	5	2	1	18	22	
96,400	4.271	37	27	21	14	8	4	3	18	23	
96,480	4.263	32	23	18	12	6	3	2	18	22	
96,562	4.285	30	21	15	11	6	2	2	18	22	
96,642	4.278	50	33	24	16	9	5	3	18	23	
96,722	4.278	38	28	21	15	8	3	2	18	22	
96,800	4.227	35	24	18	12	6	3	2	18	22	
96,880	4.256	38	27	19	13	7	3	2	18	22	
96,961	4.285	40	28	20	13	7	3	2	18	22	km 96 = 1000m
97,040	4.285	44	31	22	14	6	3	2	18	22	
97,120	4.271	36	27	20	14	7	4	3	18	22	
97,200	4.205	33	23	17	11	5	2	1	18	23	
97,281	4.212	46	32	23	14	5	2	1	18	22	
97,362	4.227	38	26	19	12	6	3	2	18	22	
97,443	4.227	41	27	20	13	6	2	2	18	22	
97,520	4.205	77	50	34	19	6	3	2	18	22	
97,600	4.168	85	57	36	18	1	2	2	18	23	
97,681	4.263	40	27	19	12	5	2	2	18	22	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
97,761	4.241	53	37	27	17	7	2	0	18	22	
97,860	4.198	51	32	21	13	5	2	2	18	22	
97,941	4.241	35	26	20	13	7	4	3	18	22	km 97 = 1000m
98,000	4.249	36	26	20	14	8	4	3	18	22	
98,080	4.212	38	27	19	14	7	4	2	18	23	
98,161	4.234	56	41	29	19	9	4	3	18	22	
98,242	4.234	35	24	17	11	5	3	2	18	23	
98,322	4.249	30	21	15	11	6	3	2	18	22	
98,402	4.271	26	18	13	9	5	3	3	18	23	
98,483	4.271	24	16	11	7	4	2	2	18	23	
98,560	4.278	19	15	11	8	5	3	2	18	23	
98,641	4.234	28	20	15	10	5	3	2	18	23	
98,721	4.219	24	18	14	10	6	3	2	18	23	
98,800	4.263	21	18	15	12	8	4	3	18	23	
98,880	4.249	29	21	17	12	7	4	2	18	23	
98,962	4.249	20	16	13	10	7	4	3	18	23	km 98 = 992m
99,042	4.256	26	20	15	13	8	4	4	18	23	
99,122	4.227	32	21	15	10	5	4	3	18	23	
99,200	4.249	35	23	17	11	6	3	3	18	23	
99,281	4.241	32	22	17	12	6	3	2	18	23	
99,361	4.234	23	17	13	9	5	3	2	18	23	
99,442	4.249	20	14	11	8	5	3	2	18	23	
99,523	4.249	28	20	14	9	5	3	2	18	23	
99,600	4.227	38	28	22	16	9	5	3	18	23	
99,681	4.212	32	25	20	15	10	6	4	18	23	
99,761	4.205	34	25	19	14	9	5	4	18	24	
99,841	4.227	28	20	15	11	6	2	2	18	23	
99,923	4.219	30	21	16	11	6	4	2	18	23	km 99 = 1000m
100,000	4.198	39	25	18	12	6	3	3	18	23	
100,079	4.198	28	20	16	12	7	4	2	18	23	
100,161	4.205	35	24	17	12	6	3	2	18	23	
100,241	4.212	37	26	18	12	6	2	2	18	23	
100,323	4.198	38	28	22	16	8	4	2	18	23	
100,400	4.212	37	21	14	8	4	2	2	18	23	
100,480	4.212	27	20	16	11	6	3	3	18	24	
100,559	4.212	27	19	14	10	5	3	2	18	23	
100,640	4.219	43	29	20	13	6	3	2	18	23	
100,720	4.212	39	27	19	13	7	4	2	18	23	
100,801	4.205	25	19	15	12	7	4	3	18	23	
100,881	4.198	39	25	18	12	7	4	3	18	23	
100,962	4.176	43	28	19	12	7	4	3	18	23	km 100 = 1000m
101,043	4.205	38	26	19	12	6	3	2	18	23	
101,123	4.198	43	30	21	14	7	3	2	18	23	
101,200	4.190	35	24	18	12	6	3	2	18	24	
101,280	4.176	31	20	14	10	5	3	3	18	23	
101,360	4.183	28	20	15	11	6	3	2	18	23	
101,440	4.190	36	25	18	13	6	3	2	18	24	
101,521	4.183	38	26	19	12	6	3	2	18	24	
101,602	4.146	53	39	30	20	11	5	3	18	24	
101,686	4.205	36	27	21	14	7	3	2	18	23	
101,763	4.168	70	50	28	18	6	2	0	18	24	
101,840	4.161	56	36	26	17	8	4	3	18	24	
101,920	4.176	35	25	19	13	7	4	3	18	24	km 101 = 1000m
101,999	4.183	48	32	22	14	7	3	2	18	24	
102,081	4.190	50	32	23	15	6	3	1	18	24	
102,163	4.168	49	29	18	11	5	2	2	18	24	
102,240	4.183	36	24	16	9	4	2	1	18	24	
102,321	4.168	37	23	16	10	5	3	2	18	24	
102,401	4.146	66	51	33	22	9	4	2	18	24	
102,482	4.183	55	48	27	18	9	4	2	18	24	
102,562	4.190	35	25	18	12	7	4	3	18	23	
102,642	4.146	50	26	19	12	6	3	2	18	24	
102,730	4.198	19	15	13	10	7	5	3	18	24	
102,800	4.183	29	21	16	11	7	4	3	18	24	
102,881	4.176	64	44	33	23	9	5	4	18	24	
102,962	4.139	44	29	20	13	7	4	4	18	24	km 102 = 1000m
103,042	4.139	34	24	19	14	8	4	3	18	24	
103,132	4.168	37	26	19	12	6	3	3	18	23	
103,201	4.161	36	26	20	14	8	4	3	18	24	
103,281	4.139	43	25	18	12	6	3	2	18	24	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
103,362	4.176	23	18	15	12	8	5	3	18	24	
103,442	4.161	50	34	24	16	7	3	3	18	24	
103,523	4.066	79	50	30	16	7	3	3	18	24	
103,602	4.176	43	33	26	19	11	6	3	18	24	
103,689	4.161	63	45	30	20	10	5	2	18	24	
103,760	3.993	108	67	44	25	11	6	4	18	24	
103,840	4.117	90	72	59	29	9	4	3	18	24	
103,921	4.154	52	38	30	22	12	6	4	18	24	km 103 = 1000m
104,000	4.176	37	27	20	14	7	3	3	18	24	
104,081	4.161	27	20	16	11	7	4	3	18	24	
104,161	4.176	23	17	13	10	6	4	3	18	24	
104,241	4.183	26	19	15	11	6	3	3	18	24	
104,323	4.161	36	25	19	13	7	4	3	18	24	
104,400	4.168	32	23	17	11	5	3	2	18	24	
104,481	4.176	34	25	18	13	7	3	2	18	24	
104,562	4.183	32	23	17	11	5	3	2	18	24	
104,643	4.198	30	22	16	12	6	3	3	18	24	
104,721	4.161	35	24	18	13	7	4	3	18	24	
104,800	4.198	35	25	19	14	7	4	2	18	24	
104,882	4.168	28	20	15	10	5	3	2	18	24	
104,962	4.146	42	30	23	16	9	5	3	18	24	km 104 = 1000m
105,040	4.161	39	28	21	15	7	4	3	18	24	
105,121	4.168	32	24	18	12	6	3	2	18	24	
105,202	4.161	36	26	20	15	8	5	4	18	24	
105,282	4.146	44	34	25	18	9	5	4	18	25	
105,373	4.168	19	15	12	9	6	4	3	22	25	
105,441	4.146	57	40	29	20	11	5	4	22	25	
105,521	4.168	24	18	15	11	7	5	3	22	24	
105,600	4.146	32	25	21	16	10	6	4	22	25	
105,679	4.168	41	32	26	20	11	5	3	22	25	
105,760	4.168	37	28	21	15	8	4	3	22	25	
105,842	4.183	26	21	16	12	8	4	3	22	25	
105,921	4.154	35	27	21	16	10	5	4	22	25	km 105 = 1007m
106,000	4.146	42	31	25	18	11	6	5	22	26	
106,081	4.161	46	36	29	22	13	7	5	22	25	
106,162	4.125	50	39	30	22	13	7	6	22	25	
106,242	4.161	34	27	22	17	11	6	5	22	25	
106,331	4.161	27	21	18	14	9	5	4	22	25	
106,399	4.161	40	31	25	19	12	7	5	22	26	
106,480	4.146	34	25	21	16	11	7	4	22	25	
106,562	4.110	57	41	33	24	14	7	5	22	26	
106,643	4.168	31	24	19	16	11	6	5	22	26	
106,723	4.125	55	41	33	24	13	6	4	22	26	
106,800	4.154	42	32	26	19	11	6	4	22	26	
106,881	4.117	55	42	33	24	14	7	5	22	26	
106,962	4.146	43	32	25	19	11	6	4	22	26	km 106 = 1000
107,040	4.146	37	28	21	17	10	5	4	22	26	
107,122	4.161	22	18	15	12	8	5	4	22	26	
107,212	4.146	29	23	18	14	9	5	4	22	26	
107,279	4.154	25	19	16	12	8	5	4	22	26	
107,358	4.146	28	21	16	13	8	4	4	22	26	
107,441	4.132	28	20	15	11	7	3	2	22	26	
107,520	4.183	18	15	12	10	6	3	3	22	26	
107,598	4.117	47	35	29	21	12	6	4	22	26	
107,681	4.117	58	43	34	24	13	6	4	22	27	
107,760	4.125	40	30	24	18	11	6	4	22	27	
107,840	4.066	84	55	42	29	14	5	3	22	27	
107,921	4.103	81	59	47	21	11	4	5	22	27	km 107 = 1004m
108,000	4.117	68	50	39	27	13	6	4	22	27	
108,081	4.095	55	40	31	23	14	8	5	22	26	
108,162	4.146	29	21	18	13	9	5	4	22	27	
108,241	4.125	46	32	24	17	9	5	4	22	27	
108,320	4.168	32	23	17	13	8	4	3	22	27	
108,398	4.139	28	20	16	12	8	4	3	22	27	
108,482	4.117	37	27	22	16	10	5	4	22	27	
108,558	4.110	54	40	31	22	12	5	5	22	27	
108,641	4.103	40	32	26	20	12	7	5	22	27	
108,722	4.110	41	29	23	18	11	6	5	22	27	
108,800	4.132	33	24	18	15	9	5	4	22	27	
108,880	4.103	54	42	34	27	17	9	6	22	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
108,960	4.103	38	29	24	18	12	7	5	22	27	km 108 = 1000m
109,042	4.125	32	24	20	16	10	6	4	22	27	
109,120	4.125	27	21	17	13	8	5	4	22	27	
109,200	4.117	52	39	31	23	13	7	4	22	27	
109,282	4.110	43	32	25	19	11	6	4	22	27	
109,363	4.117	33	25	21	16	10	5	3	22	28	
109,441	4.161	30	24	19	15	9	5	4	22	28	
109,522	4.117	37	28	23	17	11	6	4	22	28	
109,600	4.117	36	26	21	15	10	5	4	22	28	
109,681	4.117	28	21	17	13	8	5	3	22	28	
109,761	4.088	41	31	24	20	12	6	5	22	28	
109,842	4.146	29	21	18	14	8	4	3	22	28	
109,920	4.059	75	50	38	27	15	8	5	22	27	km 109 = 1000m
110,000	4.139	18	13	11	9	6	4	3	22	28	
110,081	4.117	34	26	21	16	10	5	4	22	28	
110,162	4.125	29	21	17	13	9	5	4	22	28	
110,242	4.139	25	19	15	12	8	5	4	22	28	
110,320	4.059	21	15	12	9	6	3	3	22	28	
110,401	4.139	22	16	12	10	6	3	3	22	28	
110,482	4.117	22	16	13	11	7	4	4	22	28	
110,562	4.066	21	16	12	10	7	4	3	22	28	
110,643	4.117	18	14	12	9	6	4	3	22	28	
110,723	4.117	29	21	17	12	8	4	3	22	28	
110,800	4.125	23	17	13	11	6	4	3	22	28	
110,880	4.110	25	19	15	12	8	5	4	22	28	
110,961	4.139	27	22	17	13	8	4	4	22	28	km 110 = 1000m
111,040	4.088	21	16	13	10	7	4	4	22	29	
111,120	4.139	19	15	12	9	6	3	3	22	29	
111,201	4.146	26	20	15	11	7	4	3	22	29	
111,281	4.110	24	19	15	12	7	4	3	22	29	
111,360	4.125	18	13	11	8	5	3	2	22	29	
111,441	4.132	15	12	9	7	4	3	2	22	29	
111,521	4.132	22	17	14	11	7	4	3	22	29	
111,602	4.125	16	12	10	8	6	4	3	22	29	
111,678	4.176	20	15	13	10	6	4	3	26	29	
111,758	4.095	23	17	14	11	7	5	3	26	29	
111,839	4.132	26	20	16	12	8	4	3	26	29	
111,920	4.081	40	30	23	17	10	6	4	26	29	km 111 = 1000m
112,000	4.117	28	22	18	14	9	5	5	26	29	
112,081	4.088	39	30	25	19	12	7	5	26	29	
112,163	4.117	39	31	26	19	12	7	5	26	29	
112,242	4.117	33	26	22	17	11	7	5	26	29	
112,320	4.132	28	22	18	14	10	6	4	26	29	
112,400	4.095	39	30	24	18	12	7	5	26	30	
112,481	4.117	30	23	18	15	10	6	5	26	30	
112,562	4.103	42	32	26	19	12	7	5	26	29	
112,642	4.088	29	22	17	13	9	5	4	26	30	
112,722	4.103	31	24	19	16	10	5	4	26	30	
112,800	4.081	36	27	22	17	11	6	3	26	29	
112,880	4.132	17	12	9	7	4	2	2	26	30	
112,962	4.125	25	17	12	8	4	2	1	26	30	km 112 = 1000m
113,040	4.139	19	13	10	7	4	2	1	26	30	
113,121	4.125	33	23	17	11	6	2	2	26	30	
113,202	4.125	26	17	13	8	4	2	1	26	30	
113,282	4.117	26	17	12	8	4	2	1	26	30	
113,360	4.110	11	7	5	4	2	1	1	26	30	
113,438	4.117	9	6	5	4	2	1	1	26	30	
113,518	4.117	10	7	6	4	3	2	1	26	30	
113,600	4.117	15	11	9	7	4	3	2	26	30	
113,681	4.132	11	8	7	5	3	2	2	26	30	
113,760	4.132	12	8	7	5	3	2	1	26	30	
113,842	4.110	14	10	7	5	3	2	2	26	30	
113,922	4.132	13	9	7	5	3	2	1	26	31	km 113 = 1000m
114,000	4.103	18	13	10	7	4	2	2	26	31	
114,081	4.176	14	10	8	6	4	2	1	26	30	
114,163	4.125	22	15	12	9	5	3	2	26	31	
114,242	4.139	25	15	10	6	4	2	2	26	30	
114,320	4.103	26	18	13	9	5	3	2	26	30	
114,401	4.146	12	7	5	4	3	2	1	26	30	
114,481	4.117	21	16	13	10	6	3	3	26	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA:	Crescente	FAIXA: Simples									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
114,562	4.132	26	19	15	11	7	4	2	26	31	
114,642	4.081	25	19	15	11	7	4	2	26	31	
114,720	4.117	14	10	8	6	4	3	2	26	31	
114,801	4.088	11	8	7	5	4	2	2	26	31	
114,882	4.103	20	14	12	9	6	3	2	26	31	
114,961	4.073	19	15	12	9	6	3	2	26	31	km 114 = 1000m
115,040	4.073	23	19	16	13	8	5	3	26	31	
115,121	4.125	27	20	17	13	9	5	4	26	31	
115,201	4.052	31	24	20	16	11	6	5	26	31	
115,283	4.066	28	23	20	16	11	7	5	26	31	
115,360	4.081	28	22	17	16	10	6	4	26	31	
115,440	4.088	25	21	17	15	10	6	4	26	31	
115,521	4.081	25	19	16	12	8	5	4	26	31	
115,600	4.066	27	21	17	14	10	6	5	26	31	
115,680	4.044	31	25	20	16	10	5	3	26	31	
115,760	4.073	28	22	19	15	10	6	4	26	31	
115,843	4.081	25	20	16	13	9	5	4	26	31	
115,923	4.059	22	18	15	13	9	5	4	26	31	km 115 = 1000m
116,000	4.132	23	19	16	13	9	5	4	26	31	
116,080	4.044	36	28	23	18	11	6	5	26	31	
116,160	4.073	29	23	19	15	11	6	5	26	31	
116,242	4.095	28	22	18	14	9	5	4	26	31	
116,321	4.059	28	22	18	14	9	6	4	26	31	
116,401	4.059	36	29	23	19	11	7	6	26	31	
116,483	4.015	39	28	23	18	11	7	6	26	31	
116,560	4.073	34	26	21	17	12	7	6	26	31	
116,640	4.073	31	24	19	14	9	5	4	26	31	
116,721	4.088	28	23	19	15	10	6	4	26	31	
116,802	4.066	31	24	19	15	9	5	4	26	31	
116,880	4.088	25	20	17	13	8	5	4	26	31	
116,958	4.081	25	19	16	12	8	4	3	26	32	km 116 = 1010m
117,040	4.066	25	20	17	13	9	5	4	26	31	
117,120	4.073	27	21	17	13	9	5	4	26	31	
117,201	4.081	25	19	16	13	8	5	4	26	31	
117,282	4.037	34	25	20	15	10	6	4	26	31	
117,360	4.073	34	25	20	16	10	6	4	26	31	
117,439	4.088	27	22	18	13	9	4	4	26	32	
117,520	4.059	30	23	18	14	9	6	4	26	32	
117,600	4.044	30	22	17	13	8	5	4	26	32	
117,680	4.073	44	31	24	17	10	5	5	26	31	
117,760	4.088	31	24	19	14	9	5	4	26	31	
117,840	4.081	28	21	16	12	7	4	4	26	31	
117,920	4.022	39	29	22	16	10	6	5	26	31	km 117 = 1000m
118,000	4.088	29	20	16	12	7	4	3	26	31	
118,081	4.066	29	22	18	13	9	5	4	26	31	
118,161	4.022	29	23	18	14	9	6	4	26	31	
118,240	4.095	32	24	19	15	10	6	5	26	31	
118,320	3.979	61	41	33	27	13	7	5	26	31	
118,400	4.015	50	37	28	21	13	7	5	26	31	
118,482	4.073	38	29	24	18	11	6	5	26	31	
118,562	4.059	44	33	26	18	11	6	5	26	31	
118,643	4.073	34	26	21	15	10	6	5	26	32	
118,720	4.022	34	26	21	15	10	6	5	26	31	
118,802	4.052	36	26	20	16	9	5	4	28	31	
118,882	4.066	34	26	21	17	11	6	5	28	32	
118,962	4.066	31	23	19	14	9	6	5	28	32	
119,038	4.044	55	41	33	24	14	8	6	28	31	km 118 = 1000m
119,119	4.052	40	30	24	18	12	7	6	28	31	
119,200	4.037	62	43	33	24	14	7	5	28	31	
119,281	4.059	47	33	26	19	13	7	6	28	31	
119,360	4.059	39	29	24	19	12	7	6	28	31	
119,441	4.030	51	38	30	23	14	7	6	28	31	
119,521	4.052	49	36	28	21	13	8	6	28	32	
119,602	3.957	88	52	38	22	13	8	6	28	31	
119,683	4.008	56	36	28	20	12	7	6	28	31	
119,760	3.971	72	42	32	21	13	7	6	28	31	
119,839	4.037	51	40	32	24	15	8	6	28	31	
119,920	4.088	39	30	25	19	13	7	5	28	31	
119,999	4.073	40	32	27	21	14	8	5	28	32	
120,081	4.008	68	51	41	31	16	9	6	28	31	km 119 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
120,160	4.066	50	36	28	21	14	8	6	28	32	
120,243	4.044	60	42	33	25	15	8	6	28	32	
120,320	4.066	40	31	25	20	13	7	6	28	32	
120,397	4.066	34	27	23	18	12	7	5	28	32	
120,478	4.073	34	26	22	17	11	6	5	28	32	
120,560	4.059	36	29	24	19	13	7	5	28	32	
120,641	4.008	44	32	27	20	11	5	5	28	32	
120,722	4.000	37	29	25	20	13	7	6	28	32	
120,801	4.059	43	32	26	19	12	7	5	28	32	
120,883	4.015	41	30	25	20	13	8	6	28	32	
120,963	4.037	62	45	36	26	14	8	6	28	32	
121,040	4.015	39	30	24	18	11	6	5	28	32	km 120 = 1011m
121,120	3.979	61	41	29	19	10	5	3	30	32	
121,199	4.073	40	29	23	18	11	5	5	30	32	
121,279	4.037	48	36	28	22	13	7	5	30	32	
121,359	3.927	87	60	46	20	13	7	5	30	32	
121,441	4.059	31	22	19	14	10	6	5	30	32	
121,522	4.059	31	24	20	15	10	6	5	30	32	
121,600	4.052	45	34	28	21	14	8	6	30	32	
121,682	3.971	65	46	36	27	16	8	6	30	33	
121,761	4.073	35	25	20	15	9	5	4	30	32	
121,840	4.030	51	33	25	20	12	7	5	30	32	
121,918	4.022	64	36	27	18	9	4	2	30	32	km 121 = 1007m
122,000	4.073	27	21	16	12	7	3	2	30	32	
122,080	4.196	62	49	41	32	20	12	9	20	23	
122,162	4.203	42	34	29	24	16	11	7	20	24	
122,243	4.203	28	24	21	19	14	9	8	20	24	
122,320	4.211	32	25	21	17	12	7	5	20	24	
122,399	4.232	20	17	15	12	8	5	4	20	24	
122,478	4.247	34	25	21	16	10	6	5	20	24	
122,560	4.182	38	30	25	20	14	8	5	20	24	
122,638	4.088	90	64	48	32	18	9	5	20	24	
122,720	4.146	42	35	30	24	16	9	5	20	24	
122,800	4.153	43	34	29	23	15	9	5	20	24	
122,881	4.175	57	40	30	21	12	6	3	20	25	
122,960	4.211	38	30	24	19	10	5	3	20	24	km 122 = 1000m
123,040	4.203	54	40	31	22	11	5	3	20	25	
123,121	4.175	28	23	18	15	9	5	3	20	25	
123,200	4.196	28	23	18	15	11	6	4	20	25	
123,280	4.189	24	20	16	14	9	6	4	20	25	
123,359	4.182	28	23	20	16	11	7	5	20	25	
123,439	4.153	31	25	22	17	12	7	5	20	25	
123,521	4.196	21	17	14	12	8	5	4	20	25	
123,601	4.189	50	34	26	19	12	8	6	20	25	
123,680	4.146	47	30	24	18	10	6	5	20	25	
123,763	4.124	26	17	13	10	7	5	4	20	25	
123,840	4.182	38	31	25	19	11	6	3	20	25	
123,921	4.167	25	22	18	15	11	7	5	20	25	km 123 = 1000m
124,000	4.131	40	28	23	18	12	7	5	20	25	
124,081	4.196	24	22	18	15	10	6	4	20	25	
124,162	4.146	47	31	24	18	12	9	6	20	25	
124,240	4.175	29	23	19	16	11	6	4	20	25	
124,321	4.175	21	16	13	11	8	5	5	20	25	
124,400	4.167	25	20	16	13	10	6	5	20	25	
124,480	4.182	26	22	19	15	11	7	5	20	26	
124,561	4.167	30	25	21	17	12	7	5	20	25	
124,640	4.146	38	29	24	20	14	9	6	20	25	
124,722	4.059	72	57	47	21	14	9	6	20	25	
124,800	4.160	31	25	21	18	13	8	6	20	25	
124,881	4.081	56	44	35	26	14	8	6	20	25	
124,962	4.074	65	40	32	21	13	7	4	20	25	km 124 = 1000m
125,039	4.153	29	23	20	16	11	7	5	20	25	
125,119	4.146	27	22	18	15	10	7	5	20	25	
125,200	4.167	24	19	15	12	9	6	4	20	25	
125,280	4.146	30	24	20	16	11	7	5	20	25	
125,361	4.146	40	30	25	19	13	8	5	20	25	
125,442	4.124	73	50	38	25	6	6	5	20	25	
125,521	4.139	29	22	16	13	8	5	4	20	25	
125,600	4.088	73	50	38	16	10	6	4	20	25	
125,680	4.139	34	27	23	18	13	8	5	20	25	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157						DATA: Abril/2007			
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
125,761	4.167	27	20	16	13	9	5	4	20	25	
125,843	4.117	31	25	21	13	9	6	5	20	25	
125,920	4.153	34	25	21	16	10	5	4	20	25	km 125 = 1000m
126,000	4.131	19	12	10	7	5	3	2	20	25	
126,080	4.160	29	22	17	14	9	6	4	20	25	
126,162	4.124	32	22	18	13	9	5	3	20	25	
126,241	4.153	27	21	18	15	10	6	4	20	25	
126,323	4.066	66	38	32	25	16	9	6	20	25	
126,402	4.066	78	52	39	24	13	8	5	20	25	
126,480	4.074	70	37	30	23	14	8	6	20	25	
126,560	4.002	82	53	33	24	15	9	7	22	25	
126,641	4.059	69	43	31	22	13	7	6	22	25	
126,721	4.038	86	62	50	36	20	11	7	22	25	
126,801	4.066	72	49	38	29	16	9	5	22	26	
126,883	4.074	84	63	44	29	15	8	6	22	25	
126,960	4.088	54	37	28	21	14	10	7	22	26	km 126 = 1000m
127,038	4.124	32	23	17	13	8	4	3	22	25	
127,119	4.124	20	13	9	7	5	3	2	22	26	
127,198	4.153	32	18	12	8	4	3	2	22	26	
127,280	4.124	17	13	10	8	5	3	2	22	26	
127,360	4.146	41	28	22	16	10	5	3	22	26	
127,441	4.081	63	39	30	19	10	5	3	22	26	
127,521	4.059	62	33	24	16	8	4	2	22	26	
127,601	4.066	46	32	24	18	10	5	4	22	26	
127,682	4.110	32	22	16	12	7	4	3	22	26	
127,762	4.095	47	26	18	12	7	4	3	22	26	
127,840	4.095	59	33	25	17	9	4	3	22	27	
127,920	4.081	56	37	27	17	8	3	2	22	27	km 127 = 1000m
127,999	4.117	31	16	12	8	4	3	2	22	27	
128,080	4.095	46	30	23	15	9	5	4	22	27	
128,160	4.074	46	31	25	19	11	7	5	22	27	
128,242	4.059	40	28	23	19	14	9	7	22	27	
128,321	4.102	38	25	19	15	11	7	5	22	27	
128,402	3.958	86	55	43	32	20	11	7	22	27	
128,480	4.059	37	28	23	18	11	6	5	22	27	
128,559	4.088	24	18	15	11	7	4	3	22	27	
128,640	4.095	36	28	24	20	13	7	5	22	28	
128,720	4.009	51	37	26	18	10	5	4	22	28	
128,801	4.045	50	37	30	22	12	7	5	22	28	
128,882	4.110	28	20	16	12	8	5	4	22	28	
128,960	4.117	25	21	11	8	5	3	2	22	28	km 128 = 1000m
129,040	4.045	74	48	28	20	11	5	3	22	28	
129,121	4.117	35	21	15	10	6	3	2	24	28	
129,200	4.110	22	16	12	9	5	3	2	24	28	
129,280	4.124	30	20	15	11	6	3	2	24	29	
129,362	4.074	54	42	34	24	14	7	5	24	28	
129,442	4.117	33	22	15	10	5	3	2	24	28	
129,522	4.059	57	41	33	24	14	8	5	24	28	
129,600	4.095	35	25	19	13	8	4	2	24	28	
129,679	4.095	31	25	20	15	8	4	2	24	29	
129,759	4.088	38	23	15	10	5	3	2	24	29	
129,840	4.009	82	39	26	18	8	0	3	24	28	
129,922	4.052	51	32	22	15	8	4	3	24	28	km 129 = 1000m
130,000	4.074	43	27	18	12	7	4	3	24	28	
130,081	4.102	39	25	17	12	6	4	3	24	28	
130,161	4.023	75	54	39	26	13	6	3	24	28	
130,242	4.059	44	30	23	16	8	4	2	24	29	
130,322	4.059	74	49	36	24	12	6	4	24	29	
130,400	4.102	33	23	17	12	7	3	2	24	28	
130,480	4.095	39	24	17	12	7	4	3	24	28	
130,560	4.095	35	25	20	14	9	5	5	24	29	
130,641	4.102	36	25	18	12	6	4	3	24	29	
130,722	4.052	66	41	28	17	8	4	4	24	29	
130,800	4.110	32	22	17	12	7	4	3	24	29	
130,878	4.088	32	21	15	10	6	3	3	24	29	
130,958	4.038	72	56	42	20	9	4	4	24	29	km 130 = 1000m
131,037	3.966	80	53	35	23	11	4	3	24	29	
131,118	4.088	54	45	28	22	13	6	4	24	29	
131,199	4.066	27	19	14	10	6	4	3	26	29	
131,280	4.045	65	38	26	16	7	3	2	26	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA:	Crescente	FAIXA: Simples									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
131,360	4.023	84	62	47	22	11	5	3	26	29	
131,442	4.052	53	37	28	20	12	7	6	26	29	
131,520	4.095	32	22	17	12	7	5	3	26	29	
131,602	4.088	55	39	28	19	10	5	4	26	29	
131,681	4.081	30	21	17	12	8	5	4	26	29	
131,761	4.030	26	20	16	12	7	5	3	26	29	
131,840	4.066	24	18	13	11	5	3	2	26	29	
131,923	4.074	21	15	11	8	6	3	4	26	29	km 131 = 1000m
132,000	4.023	49	36	26	17	6	2	2	26	29	
132,080	4.066	50	34	27	21	13	7	6	26	29	
132,161	4.059	29	20	15	11	7	4	3	26	30	
132,242	3.980	80	42	31	22	8	4	3	26	30	
132,322	4.059	39	25	17	11	6	4	3	26	30	
132,401	4.074	32	25	20	15	9	5	3	26	30	
132,482	4.023	52	38	30	22	13	7	5	26	30	
132,562	4.045	37	28	21	16	9	5	4	26	30	
132,640	4.009	55	38	28	19	10	5	4	26	30	
132,721	4.023	70	38	27	18	8	4	3	26	30	
132,801	4.088	35	24	17	13	6	3	2	26	30	
132,880	4.045	32	21	13	9	5	2	2	26	31	
132,960	4.088	37	23	15	10	6	3	3	26	30	km 132 = 1000m
133,042	4.059	26	17	12	8	5	3	3	26	30	
133,121	4.030	26	16	12	10	7	5	4	26	30	
133,202	3.966	82	58	44	20	12	6	5	26	30	
133,283	4.052	25	19	16	13	9	6	4	26	30	
133,362	4.038	27	19	15	12	8	5	5	26	30	
133,442	3.987	59	37	27	18	10	6	4	26	30	
133,522	4.045	34	24	18	13	8	4	4	26	30	
133,603	4.045	23	17	12	9	5	2	1	26	30	
133,680	4.066	30	22	18	13	8	5	3	26	30	
133,761	4.066	26	19	15	13	9	6	5	26	30	
133,841	4.066	42	28	20	14	8	4	3	26	29	
133,923	4.088	27	21	16	13	9	5	4	26	29	km 133 = 1000m
134,000	4.038	54	36	27	18	10	5	4	26	29	
134,080	4.030	75	46	35	24	10	5	4	26	29	
134,161	3.980	71	54	42	31	16	7	6	26	29	
134,241	3.929	83	56	44	32	20	12	8	26	29	
134,321	4.074	38	29	21	16	9	4	3	26	30	
134,403	4.059	43	31	25	19	13	8	5	26	29	
134,483	4.052	57	38	29	21	12	5	3	26	29	
134,560	4.081	36	24	18	14	8	5	3	26	30	
134,639	4.023	56	34	26	18	10	5	3	26	29	
134,720	4.030	55	37	27	19	10	5	4	26	29	
134,802	4.045	43	30	23	17	11	7	5	26	29	
134,882	4.045	51	35	26	18	11	6	4	26	30	
134,961	4.030	33	23	18	12	7	4	3	26	30	km 134 = 1000m
135,040	4.059	56	37	27	19	10	5	3	26	29	
135,120	4.052	40	26	20	15	9	4	3	26	29	
135,201	4.074	31	21	16	13	7	4	3	26	30	
135,282	4.009	57	40	29	19	10	6	5	26	30	
135,363	3.973	64	48	37	28	18	9	5	26	30	
135,443	4.052	48	32	24	18	10	5	4	26	30	
135,520	4.016	56	36	27	20	11	6	4	26	30	
135,600	4.066	35	24	18	12	7	4	3	26	30	
135,681	4.059	41	27	20	14	8	4	3	26	30	
135,762	4.045	46	31	23	16	9	4	3	26	30	
135,840	3.980	67	51	42	32	20	11	6	26	30	
135,918	4.009	53	37	28	19	11	6	5	26	30	km 135 = 1000m
136,000	4.030	41	31	25	20	13	8	5	26	30	
136,081	4.023	52	38	29	22	14	8	6	26	30	
136,162	4.002	46	36	29	23	16	9	7	26	30	
136,242	3.850	100	77	60	44	27	14	8	26	31	
136,320	4.030	43	33	27	21	14	8	6	26	31	
136,401	3.937	61	49	40	31	20	11	7	26	31	
136,481	4.052	38	30	24	18	10	5	3	26	31	início de ponte km 136,568
136,718	4.002	57	44	36	28	18	10	7	26	32	fim de ponte km 136,660
136,800	4.059	29	22	18	13	8	5	4	26	31	
136,880	4.038	32	24	19	14	9	4	3	26	31	
136,961	4.030	35	26	20	15	9	5	3	26	31	km 136 = 1000m
137,040	4.023	33	25	20	16	10	6	4	26	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA:	Crescente	FAIXA: Simples									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
137,120	4.059	23	17	14	11	7	4	3	26	31	
137,201	3.994	34	26	21	16	11	6	4	29	32	
137,281	4.038	23	18	14	11	7	3	3	29	32	
137,361	4.038	33	25	20	15	10	6	4	29	31	
137,442	4.038	31	25	21	16	11	6	4	29	32	
137,520	4.023	22	16	13	10	7	4	4	29	32	
137,599	4.030	30	23	19	15	9	5	4	29	32	
137,680	4.016	34	23	18	14	9	5	4	29	32	
137,760	4.038	26	18	14	10	6	4	3	29	32	
137,842	4.016	49	31	23	16	9	4	3	29	32	
137,921	4.023	54	36	28	20	11	5	3	29	32	km 137 = 1000m
138,000	4.030	49	28	20	14	8	4	3	29	32	
138,081	4.002	51	35	26	19	11	5	3	29	32	
138,161	4.059	11	9	8	6	5	3	2	29	32	
138,241	4.066	16	12	11	9	7	4	3	29	32	
138,321	4.030	45	30	22	15	8	4	3	29	32	
138,402	4.038	48	33	24	14	8	4	2	29	32	
138,480	3.973	54	36	29	20	13	8	5	29	31	
138,561	3.966	69	52	43	34	22	13	9	29	32	
138,641	4.016	31	24	21	17	13	9	7	29	32	
138,722	4.002	37	29	25	20	15	9	7	29	32	
138,801	4.045	40	31	25	20	13	6	5	29	32	
138,880	4.016	37	29	24	18	11	7	6	29	32	
138,959	4.038	29	21	16	12	7	4	3	29	32	km 138 = 1000m
139,040	4.002	37	26	21	15	9	5	3	29	33	
139,123	4.009	20	13	10	8	5	3	2	29	32	
139,201	4.030	32	23	18	14	9	5	3	29	32	
139,280	3.980	45	33	26	19	11	5	3	29	33	
139,360	4.009	44	32	24	17	11	6	4	29	32	
139,441	4.016	31	21	17	13	9	6	4	29	32	
139,522	3.980	47	26	18	14	8	4	3	29	32	
139,600	4.045	34	26	22	18	13	8	6	29	33	
139,680	3.872	74	48	38	28	18	9	6	29	32	
139,760	4.030	41	32	26	21	13	7	5	29	32	
139,841	4.009	46	33	25	18	11	5	3	29	32	
139,922	4.016	26	19	15	12	8	5	3	29	32	km 139 = 1000m
140,000	4.030	28	23	20	18	13	9	7	29	32	
140,082	3.994	40	31	26	20	12	7	4	29	32	
140,161	4.002	37	27	22	18	13	8	7	29	32	
140,241	3.987	29	18	14	10	7	5	5	29	32	
140,321	3.994	30	22	18	14	10	6	5	29	32	
140,402	3.994	40	27	21	16	10	6	5	29	32	
140,482	3.915	36	23	18	13	8	5	4	29	32	
140,543	4.023	27	20	16	12	8	4	4	29	32	
140,640	4.002	26	18	13	10	6	4	3	29	32	
140,720	4.023	32	22	16	11	7	4	4	29	32	
140,799	4.016	35	24	18	15	9	5	4	29	32	
140,879	4.023	48	32	23	16	9	5	4	29	32	
140,961	3.958	58	43	33	24	16	9	7	29	32	km 140 = 1000m
141,040	3.973	71	50	37	25	15	8	5	29	32	
141,120	4.023	49	32	23	17	11	6	5	29	32	
141,201	4.023	42	24	17	12	8	5	3	29	32	
141,280	3.922	79	58	46	33	21	11	7	29	32	
141,360	3.980	34	14	9	7	5	3	2	29	32	
141,440	4.023	35	24	18	13	9	6	4	29	32	
141,520	4.045	15	11	9	7	5	3	2	29	32	
141,600	4.016	37	21	12	8	5	3	3	29	33	
141,681	4.030	29	20	15	12	8	5	4	29	32	
141,762	4.002	59	41	30	21	12	6	4	29	33	
141,849	4.016	57	36	25	16	8	4	3	29	32	
141,919	4.030	43	28	20	13	7	4	3	29	33	km 141 = 1000m
142,000	4.023	52	35	23	16	9	5	3	29	33	
142,081	4.016	30	18	13	10	7	4	3	29	33	
142,161	4.030	31	17	12	9	6	4	3	29	32	
142,243	4.023	43	23	15	9	5	3	2	29	32	
142,320	4.030	34	25	20	15	10	5	3	29	33	
142,400	3.987	30	21	16	12	8	4	3	29	33	
142,482	4.023	13	9	6	5	4	2	2	29	33	
142,562	4.016	17	14	10	8	5	3	3	29	32	início de ponte km 142,620
142,720	3.980	21	16	12	9	7	4	4	29	33	fim de ponte km 142,677

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:		km 24,820 ao km 157							DATA: Abril/2007	
PISTA:	Crescente	FAIXA:		Simples								
SENTIDO:	DF/MG	ENSAIO:		a cada 80 m								
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS	
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)		
142,802	4.016	12	7	5	4	3	2	2	29	33		
142,890	3.994	18	13	11	9	7	4	4	29	33		
142,959	3.987	40	22	15	10	7	4	3	29	33	km 142 = 1030m	
143,040	4.000	69	48	31	24	13	7	6	30	32		
143,122	4.095	31	22	17	12	7	4	3	30	32		
143,202	4.073	32	20	15	10	6	3	2	30	32		
143,282	4.088	34	20	13	9	6	3	3	30	32		
143,361	4.081	35	23	16	11	6	3	2	30	32		
143,441	4.073	40	28	20	14	7	3	2	30	32		
143,522	4.095	30	21	17	12	7	4	3	30	32		
143,601	4.103	19	14	11	8	6	3	3	30	32		
143,683	4.066	45	32	25	18	12	8	6	30	32		
143,763	3.986	69	55	46	37	27	15	11	30	32		
143,843	4.073	28	22	19	16	12	8	7	30	32		
143,920	4.030	36	30	26	21	15	9	7	30	32	km 143 = 1000m	
144,000	4.052	50	38	30	24	18	11	9	30	32		
144,079	4.066	35	27	23	19	15	10	8	30	32		
144,160	4.015	63	43	34	25	17	10	8	30	32		
144,240	4.059	41	30	25	19	13	7	5	30	32		
144,320	4.103	17	13	11	8	6	3	2	30	32		
144,401	4.088	20	15	12	10	7	4	4	30	32		
144,482	4.088	40	25	17	12	7	4	3	30	31		
144,560	4.088	27	21	17	13	9	5	4	30	31		
144,638	4.015	41	34	30	24	17	10	6	30	31		
144,720	4.000	66	52	37	26	16	8	5	30	31		
144,802	4.044	28	22	18	14	9	5	4	30	32		
144,880	4.044	35	27	21	16	11	6	4	30	32	km 144 = 978m	
145,000	4.066	38	32	27	21	14	8	6	30	32		
145,040	4.059	22	17	14	11	8	5	4	30	32		
145,121	4.081	18	13	11	7	4	3	2	30	32		
145,202	4.088	14	11	10	9	6	4	3	30	32		
145,281	4.059	33	27	22	17	11	6	4	30	32		
145,362	4.059	36	27	21	14	8	4	2	30	31		
145,443	4.059	32	25	19	14	9	4	3	30	31		
145,520	4.044	35	27	22	17	11	7	5	30	32		
145,599	4.052	39	30	24	18	12	7	5	30	31		
145,679	4.059	34	26	22	16	10	5	4	30	31		
145,759	4.088	34	26	20	14	8	4	2	30	31		
145,840	4.103	22	17	13	9	6	3	2	30	32		
145,920	4.095	26	21	16	12	6	3	2	30	31	km 145 = 1000m	
146,000	4.095	21	16	12	9	4	2	1	30	31		
146,081	4.103	20	15	12	9	6	3	2	30	32		
146,160	4.095	20	15	13	10	7	4	3	30	32		
146,242	4.103	20	15	11	8	4	2	1	30	32		
146,321	4.103	24	20	16	12	7	3	2	30	32		
146,400	4.088	21	16	13	10	6	3	3	30	31		
146,481	4.066	34	28	24	19	14	8	6	30	32		
146,563	4.073	42	32	25	19	13	7	6	30	32		
146,642	4.073	26	21	17	13	8	4	3	30	32		
146,721	4.117	18	13	11	8	5	3	3	30	32		
146,800	4.088	29	23	19	14	9	5	3	30	32		
146,880	4.059	23	17	13	9	5	3	2	30	32		
146,961	4.073	23	17	14	11	8	5	4	30	33	km 146 = 1000m	
147,038	4.059	30	23	19	14	9	5	4	30	32		
147,120	4.088	36	29	23	17	11	6	5	30	32		
147,202	4.059	29	23	19	14	9	4	3	30	32		
147,282	4.059	32	25	19	14	9	5	3	30	32		
147,360	4.037	38	31	26	20	13	7	5	30	33		
147,441	4.073	28	23	19	15	10	6	6	30	32		
147,522	4.066	28	23	19	15	10	7	6	30	32		
147,602	4.088	14	10	8	6	5	3	3	30	33		
147,683	4.022	20	15	11	7	5	3	3	30	33		
147,762	4.037	32	23	17	12	7	4	3	30	32		
147,840	4.052	24	19	14	11	7	4	3	30	32		
147,921	4.052	15	10	7	5	4	2	2	30	32	km 147 = 1000m	
148,000	4.008	24	20	16	12	7	3	3	30	32		
148,080	4.015	27	21	17	13	8	5	3	30	33		
148,160	4.037	25	18	14	10	7	4	3	30	32		
148,242	4.044	15	11	9	7	5	3	2	30	32		
148,322	4.059	25	20	16	12	7	4	3	30	32		

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 157							DATA: Abril/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
148,400	4.059	29	22	18	14	9	5	4	30	33	
148,479	4.073	24	19	15	11	8	4	3	30	33	
148,560	4.052	37	30	25	19	12	6	4	30	33	
148,641	4.022	49	40	33	26	17	10	7	30	33	
148,722	4.073	18	14	11	9	7	4	4	30	33	
148,800	4.059	28	21	17	13	8	4	3	30	33	
148,881	4.037	30	24	19	15	9	5	4	30	33	
148,965	4.030	29	21	17	12	9	6	5	30	33	
149,040	4.030	30	22	18	13	9	6	5	30	33	km 148 = 1040m
149,040	4.066	15	11	9	7	5	3	3	30	33	
149,121	4.066	23	17	14	11	8	5	3	30	33	
149,214	4.081	16	12	9	7	5	3	3	30	33	
149,278	4.044	26	19	16	12	9	6	5	30	33	
149,358	4.066	19	13	9	6	4	3	2	30	34	
149,425	4.052	23	16	12	9	7	4	4	30	33	
149,518	4.044	29	19	13	10	8	6	5	30	33	
149,600	4.037	25	17	13	10	7	4	4	30	33	
149,682	4.037	35	28	23	19	14	8	6	30	33	
149,762	4.052	32	26	19	16	11	6	5	30	34	
149,842	4.022	41	34	28	23	16	9	7	30	34	
149,931	4.044	29	23	17	14	9	5	4	30	34	km 149 = 966m
150,000	4.052	25	18	14	10	7	4	4	30	35	
150,078	4.081	19	14	12	9	7	4	4	30	35	
150,158	4.073	23	17	14	10	6	4	3	30	35	
150,238	4.066	26	16	12	8	5	3	3	30	35	
150,320	4.037	23	19	16	13	9	6	5	30	35	
150,403	3.971	18	14	12	9	7	4	3	30	35	
150,479	4.030	18	12	9	7	5	3	2	30	35	
150,560	4.022	19	13	10	7	5	3	3	30	35	
150,640	4.030	16	10	7	5	4	2	2	30	35	
150,722	4.044	16	12	9	7	4	2	2	30	35	
150,802	4.037	31	24	20	15	9	5	4	30	35	
150,882	4.044	23	15	11	9	7	5	4	30	35	
150,960	4.073	13	8	6	6	4	3	3	30	35	km 150 = 1000m
151,040	4.052	18	13	10	7	4	2	1	30	35	
151,122	4.044	27	19	15	11	7	4	3	30	35	
151,203	4.037	20	15	12	9	6	4	3	30	35	
151,282	4.022	19	14	12	9	7	5	4	30	35	
151,363	3.993	35	28	23	17	12	7	7	30	35	
151,440	4.030	21	15	12	9	6	3	2	30	35	
151,521	4.008	30	22	18	14	10	7	5	30	35	
151,600	4.022	19	15	12	9	7	5	4	30	35	
151,680	4.030	20	15	11	8	6	4	3	30	35	
151,761	4.015	27	20	16	12	9	5	4	30	35	
151,842	4.030	15	10	8	6	4	2	2	30	35	
151,923	4.015	20	15	12	9	6	2	2	30	34	km 151 = 1006m
152,000	3.986	38	31	26	20	14	9	7	30	35	
152,080	4.008	31	25	22	17	12	8	7	30	34	
152,160	3.993	15	11	9	7	5	4	3	30	35	
152,242	4.000	23	17	15	12	9	6	5	30	35	
152,322	4.000	25	19	16	12	9	5	4	30	34	
152,403	4.022	22	15	12	9	6	4	4	30	34	
152,480	4.037	23	17	13	10	6	3	2	30	34	
152,560	4.022	48	36	29	22	15	7	6	30	34	
152,641	3.971	43	33	27	21	14	8	6	30	35	
152,722	4.008	23	17	14	11	8	4	3	30	34	
152,800	4.000	26	20	16	13	9	5	4	30	34	
152,879	3.993	30	23	19	15	10	6	5	30	34	
152,958	3.979	32	24	18	13	9	5	4	30	35	km 152 = 1000m
153,038	3.993	38	28	21	15	9	5	4	30	34	
153,119	3.986	24	18	14	10	6	3	3	30	34	
153,201	3.986	19	14	12	10	7	5	4	30	34	
153,280	4.000	29	20	15	11	8	4	4	30	34	
153,360	3.993	21	14	11	9	6	4	3	30	34	
153,440	4.008	17	11	9	7	5	4	3	30	35	
153,523	4.022	22	15	11	8	6	3	3	30	35	
153,602	4.015	15	10	8	7	5	3	3	30	35	
153,683	3.993	18	13	10	8	5	3	3	30	34	
153,774	4.022	18	13	10	8	5	3	3	30	34	
153,840	4.015	16	12	11	8	6	3	3	30	34	

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 0,000							DATA: Abril/2007		
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
24,760	4.175	42	29	27	21	15	10	7	21	23	
24,680	4.203	28	23	22	19	14	9	7	21	23	
24,598	4.175	34	25	23	18	13	8	6	21	23	
24,519	4.153	52	34	27	20	13	8	6	21	23	
24,439	4.196	23	18	18	15	11	8	6	21	23	
24,358	4.175	18	14	14	12	10	7	6	21	24	
24,278	4.203	15	12	12	11	9	7	5	21	24	
24,197	4.211	17	13	13	11	9	6	5	21	24	
24,120	4.211	18	14	14	12	10	7	5	21	24	
24,038	4.211	16	13	13	12	10	7	5	21	24	
23,958	4.203	22	17	17	14	11	8	6	21	24	km 23 = 1000m
23,878	4.160	32	24	23	20	14	9	6	21	25	
23,798	4.189	26	21	20	17	13	9	6	21	25	
23,717	4.189	27	20	19	16	12	8	6	21	25	
23,640	4.189	29	21	19	16	11	8	6	21	25	
23,560	4.160	29	22	21	18	13	8	6	21	25	
23,480	4.153	41	28	26	19	13	8	6	21	25	
23,398	4.160	32	22	21	17	12	8	5	21	25	
23,320	4.160	20	14	13	11	8	5	3	21	26	
23,240	4.160	26	17	16	13	9	5	3	21	26	
23,160	4.153	18	12	11	9	6	4	3	21	26	
23,080	4.074	56	41	36	27	17	9	5	21	26	
23,000	4.139	45	30	26	20	12	6	3	21	26	
22,919	4.139	26	19	17	14	10	6	3	21	26	km 22 = 1000m
22,838	4.182	17	12	12	10	7	4	3	21	26	
22,759	4.139	36	25	23	17	11	7	4	21	26	
22,678	4.175	25	18	17	14	10	6	4	21	26	
22,598	4.182	26	18	17	13	9	5	3	21	26	
22,517	4.146	30	22	21	17	12	8	5	21	26	
22,440	4.167	27	20	19	16	11	7	5	21	27	
22,360	4.146	28	20	17	14	9	5	3	21	27	
22,280	4.160	26	19	17	13	8	5	3	21	27	
22,198	4.167	22	16	15	12	8	5	3	21	27	
22,118	4.139	36	25	22	17	11	6	3	21	27	
22,037	4.139	31	22	21	17	12	8	5	21	27	
21,958	4.167	29	21	19	14	9	5	3	24	27	km 21 = 1000m
21,878	4.160	24	16	14	11	7	4	2	24	27	
21,800	4.153	21	17	17	15	12	9	6	24	27	
21,721	4.059	52	36	30	22	13	7	4	24	27	
21,639	4.124	26	18	17	13	9	6	5	24	27	
21,559	4.131	19	13	12	9	6	4	3	24	28	
21,479	4.139	23	15	12	9	5	3	2	24	28	
21,400	4.095	38	23	19	13	9	6	5	24	28	
21,320	4.102	53	31	24	16	9	6	4	24	28	
21,239	4.160	15	9	8	6	4	2	2	24	28	
21,158	4.131	25	16	13	10	6	4	3	24	29	
21,077	4.117	45	27	21	13	8	5	4	24	29	
21,000	4.160	24	15	11	7	5	3	3	24	29	
20,919	4.153	18	11	10	7	4	3	2	24	29	km 20 = 1050m
20,838	4.146	21	15	13	10	6	4	3	24	29	
20,760	4.153	15	10	8	6	4	2	2	24	29	
20,682	4.153	14	8	6	5	3	2	2	27	29	
20,600	4.146	11	7	6	5	4	3	3	27	29	
20,520	4.117	27	17	15	11	7	5	3	27	30	
20,442	4.088	35	22	18	13	8	5	3	27	30	
20,359	4.124	35	20	13	7	3	2	2	27	30	
20,279	4.117	26	13	10	6	2	1	1	27	30	
20,198	4.124	28	18	14	9	4	2	1	27	30	
20,120	4.146	16	11	9	7	4	3	2	27	30	
20,038	4.139	19	13	11	8	5	3	2	27	30	
19,958	4.131	26	18	17	13	9	6	4	27	30	km 19 = 1000m
19,880	4.124	19	13	12	10	7	4	3	27	30	
19,800	4.131	12	7	6	5	4	3	2	27	30	
19,719	4.124	16	12	11	9	6	4	3	27	30	
19,637	4.139	19	12	10	7	3	2	1	27	30	
19,560	4.117	23	14	11	7	3	1	1	27	30	
19,478	4.124	29	20	16	12	7	3	2	27	29	
19,398	4.124	25	17	15	11	7	4	3	27	30	
19,319	4.088	35	22	18	12	8	5	4	27	30	
19,239	4.124	25	15	12	8	5	3	2	27	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 0,000							DATA: Abril/2007		
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
19,158	4.110	31	20	15	10	5	3	2	27	30	
19,077	4.110	24	15	12	8	5	3	3	27	30	
19,000	4.124	33	23	19	14	8	4	3	27	30	
18,920	4.131	24	15	12	8	4	2	2	27	30	km 18 = 1000m
18,839	4.110	24	17	12	7	4	2	1	27	30	
18,758	4.095	33	21	17	12	5	3	2	27	30	
18,680	4.045	31	19	15	9	4	2	1	27	30	
18,598	4.088	38	24	18	12	6	3	2	27	30	
18,518	4.110	16	9	7	5	3	1	1	27	30	
18,440	4.117	25	16	11	7	3	1	1	27	30	
18,359	4.095	24	13	10	6	3	1	1	27	30	
18,279	4.146	21	14	11	8	4	2	1	27	30	
18,197	4.081	21	14	11	8	4	2	1	27	30	
18,118	4.139	22	15	13	10	6	3	2	27	30	
18,037	4.117	15	11	11	9	7	4	3	27	30	
17,960	4.081	35	21	18	13	8	4	3	27	29	km 17 = 990m
17,880	4.102	23	16	14	11	7	4	3	27	29	
17,799	4.102	29	21	19	14	9	6	4	27	30	
17,719	4.074	39	28	25	20	14	8	6	27	29	
17,640	4.110	17	12	11	8	5	3	2	27	29	
17,559	4.074	36	23	20	16	11	6	4	27	30	
17,480	4.066	44	29	25	19	12	7	5	27	29	
17,400	4.038	57	39	34	26	17	10	7	27	29	
17,319	4.074	33	24	22	18	13	8	5	27	29	
17,239	4.081	29	21	19	15	11	6	4	27	29	
17,157	4.066	36	23	18	13	8	4	3	27	30	
17,077	4.102	28	19	17	12	7	4	2	27	30	
17,000	4.110	13	10	9	7	5	3	3	27	29	
16,920	4.102	22	17	16	13	10	6	5	27	30	km 16 = 1000m
16,838	4.052	48	32	27	20	13	8	5	27	30	
16,758	4.088	37	26	23	18	12	7	5	27	30	
16,678	4.045	42	29	26	20	13	8	5	27	30	
16,597	4.074	32	23	21	18	13	8	6	27	30	
16,520	4.110	23	17	17	15	11	8	6	27	30	
16,441	4.023	52	38	36	30	22	14	9	27	30	
16,360	4.066	35	23	20	15	10	6	4	27	30	
16,279	4.059	40	27	24	18	11	6	4	27	30	
16,198	4.102	22	16	15	12	8	5	4	27	30	
16,118	4.088	20	13	12	9	6	4	3	27	31	
16,037	4.088	21	15	14	11	7	5	3	27	31	
15,960	4.095	25	17	15	12	8	5	4	27	31	km 15 = 1000m
15,879	4.088	19	13	11	9	6	4	3	27	31	
15,799	4.081	22	15	14	11	8	5	4	27	31	
15,717	4.110	26	17	15	11	7	4	3	29	31	
15,637	4.052	29	19	18	14	10	6	4	29	31	
15,560	4.088	27	19	18	15	11	7	4	29	31	
15,480	4.059	28	21	19	15	10	6	4	29	31	
15,400	4.052	29	19	17	14	10	6	5	29	31	
15,319	4.052	28	20	16	13	9	6	4	29	31	
15,239	4.052	33	21	18	14	9	5	4	29	31	
15,158	4.059	23	16	14	11	7	4	3	29	32	
15,078	4.088	12	10	10	8	6	4	3	29	31	
15,000	4.052	15	12	12	10	9	6	5	29	31	
14,920	4.052	26	18	17	13	9	6	5	29	31	km 14 = 1000m
14,838	4.059	24	16	14	10	6	4	3	29	31	
14,760	4.095	21	14	12	9	5	3	3	29	31	
14,683	4.059	26	19	17	14	10	6	5	29	31	
14,602	4.074	36	23	19	13	9	6	5	29	30	
14,521	4.074	44	29	23	17	10	6	5	29	30	
14,441	4.016	36	24	21	16	9	6	4	29	30	
14,359	4.052	43	26	21	15	9	6	5	29	30	
14,280	4.074	29	19	17	12	7	4	3	29	30	
14,198	4.081	32	21	18	13	8	5	4	29	30	
14,118	4.081	32	22	19	14	9	6	5	29	30	
14,037	4.081	33	23	20	14	10	6	5	29	30	
13,960	4.081	32	21	18	13	8	6	5	29	30	km 13 = 1000m
13,878	4.066	29	20	17	12	7	4	3	29	30	
13,800	4.102	25	17	15	10	7	4	3	29	29	
13,719	4.081	28	18	15	11	7	5	4	29	30	
13,638	4.081	34	23	19	14	8	5	4	29	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 0,000							DATA: Abril/2007		
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
13,560	4.095	25	17	15	11	7	4	3	29	30	
13,477	4.088	31	20	17	11	6	3	2	29	29	
13,400	4.074	24	15	12	9	5	3	2	29	30	
13,319	4.074	34	20	15	10	5	3	2	29	29	
13,239	4.074	24	16	13	9	5	3	2	29	30	
13,159	4.066	32	19	15	9	5	3	3	29	29	
13,079	4.095	23	15	12	8	5	3	2	29	29	
13,000	4.066	25	16	13	9	5	3	2	29	29	
12,919	4.088	22	15	12	9	5	3	3	29	29	km 12 = 1000m
12,839	4.066	25	16	14	10	6	4	3	29	29	
12,757	4.066	26	17	14	10	6	3	3	29	29	
12,679	4.052	33	20	17	12	7	4	3	29	29	
12,598	4.074	22	14	12	9	6	3	2	29	29	
12,518	4.081	23	16	14	10	6	4	3	29	29	
12,400	4.102	18	12	10	8	5	3	2	29	29	
12,320	4.059	21	14	12	9	6	3	3	29	29	
12,241	4.066	23	14	12	8	5	2	2	29	29	
12,159	4.074	22	15	12	9	5	3	2	29	29	
12,113	4.066	36	23	18	12	6	3	2	29	29	
12,040	4.052	25	16	13	9	5	2	1	29	29	
11,958	4.066	27	16	13	9	5	3	2	29	29	km 11 = 1000m
11,879	4.066	21	13	11	8	5	3	2	29	29	
11,798	4.045	20	14	12	9	5	3	2	29	30	
11,719	4.030	39	23	19	12	7	4	3	29	30	
11,637	4.030	28	17	14	9	6	4	3	29	30	
11,557	4.066	36	22	17	12	6	3	3	29	30	
11,480	4.038	41	24	18	12	6	3	3	29	30	
11,400	4.052	26	18	16	11	7	4	3	29	30	
11,320	4.045	31	20	17	12	7	4	2	29	30	
11,239	4.059	35	21	15	10	5	3	3	29	31	
11,159	4.045	24	17	15	12	8	6	5	29	30	
11,078	4.059	21	15	12	8	5	3	2	29	31	
11,000	4.066	23	16	14	10	6	4	3	29	31	
11,000	4.074	21	13	12	8	5	3	2	29	31	
10,920	4.074	27	17	15	11	7	4	3	29	31	km 10 = 1000m
10,840	4.059	24	17	16	13	9	6	5	29	31	
10,759	4.059	21	14	12	10	6	4	4	29	31	
10,679	4.052	32	20	16	12	7	4	4	29	31	
10,598	4.081	26	18	16	11	7	4	3	29	31	
10,517	4.074	31	20	17	12	8	6	5	29	31	
10,440	4.074	20	13	11	8	5	3	3	29	31	
10,358	4.059	37	21	17	12	8	5	4	29	31	
10,278	4.066	33	20	17	12	7	4	4	29	31	
10,199	4.045	31	19	16	12	8	5	4	29	31	
10,118	4.045	31	19	15	10	6	4	3	29	31	
10,038	4.030	42	26	21	14	8	5	4	29	31	
9,958	4.038	29	17	13	9	6	3	3	29	31	km 9 = 1000m
9,877	4.045	29	18	14	10	6	4	3	29	31	
9,800	4.066	23	13	9	6	3	2	1	29	30	
9,721	4.059	22	12	9	6	4	2	2	29	31	
9,640	4.059	22	11	8	6	4	2	2	29	30	
9,558	4.052	27	15	12	8	5	3	2	29	30	
9,478	4.045	22	14	12	9	5	3	2	29	30	
9,397	4.059	22	13	10	7	4	2	2	29	29	
9,317	4.052	27	18	15	11	7	4	2	29	29	
9,237	4.052	27	16	13	9	6	3	2	29	30	
9,157	4.066	26	15	12	8	5	3	2	29	29	
9,080	4.045	31	19	16	11	7	3	2	29	30	
9,000	4.045	33	20	16	11	6	3	2	29	29	
8,919	4.045	30	17	14	10	6	4	3	29	29	km 8 = 1000m
8,837	4.045	22	15	12	9	6	3	2	29	29	
8,760	4.052	35	21	18	13	8	5	4	29	29	
8,680	4.023	31	20	18	13	9	6	6	29	29	
8,599	4.030	31	21	17	13	8	5	5	29	30	
8,519	4.038	28	16	12	8	5	3	3	29	29	
8,438	4.066	23	13	10	7	3	2	1	29	29	
8,360	4.059	16	11	10	7	5	3	2	29	29	
8,280	4.038	25	17	15	12	8	5	4	29	29	
8,200	4.023	38	27	24	19	13	8	7	29	29	
8,119	4.023	42	28	24	18	11	6	5	29	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 24,820 ao km 0,000							DATA: Abril/2007		
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
8,038	4.016	41	28	23	16	11	7	5	29	29	km 7 = 1000m
7,958	4.016	32	22	19	15	10	6	5	29	28	
7,877	4.038	33	23	20	15	10	6	5	29	29	
7,797	4.002	43	30	27	21	15	10	8	29	29	
7,720	4.059	23	16	13	10	7	4	4	29	29	
7,639	4.038	30	20	17	13	9	6	5	29	29	
7,557	4.052	24	16	14	10	7	5	4	29	28	
7,478	4.030	25	17	14	10	7	4	3	29	28	
7,400	4.066	22	14	12	9	6	3	3	29	29	
7,318	4.066	24	17	14	10	6	3	3	29	29	
7,242	4.045	33	25	23	18	12	8	6	29	29	
7,160	4.066	28	19	16	11	7	4	3	29	29	
7,080	4.030	39	26	24	18	12	7	6	29	29	
7,000	4.016	37	26	23	18	12	8	6	29	29	
6,920	4.009	37	26	24	19	13	8	7	29	29	km 6 = 1000m
6,843	4.038	33	22	19	14	9	6	5	29	29	
6,763	4.038	32	22	20	15	10	6	4	29	29	início de ponte km 6,750
6,680	4.023	31	21	19	14	9	5	4	29	29	fim de ponte km 6,710
6,599	4.045	27	17	15	11	7	5	4	29	29	
6,519	4.066	23	17	15	12	8	5	4	29	29	
6,440	4.066	35	27	22	16	9	5	4	29	30	
6,360	4.081	35	25	21	15	9	5	4	29	30	
6,200	4.066	35	25	21	15	9	5	4	29	30	
6,120	4.052	31	21	19	14	9	5	4	29	29	
6,040	4.045	32	21	18	13	8	4	3	29	30	
5,960	4.052	30	20	18	13	8	4	3	29	30	km 5 = 1000m
5,877	4.045	31	21	18	12	7	4	3	29	30	
5,800	4.052	28	20	17	12	7	4	3	29	30	
5,717	4.023	31	19	16	11	7	5	4	29	30	
5,640	4.059	24	16	15	11	8	5	4	29	30	
5,560	4.016	32	20	17	13	9	6	4	29	30	
5,480	4.030	32	21	19	14	10	6	5	29	30	
5,400	4.030	28	18	15	12	8	5	4	29	30	
5,320	4.045	27	17	14	10	6	3	3	29	30	
5,240	4.045	25	15	11	8	5	2	2	29	30	
5,160	4.023	26	15	12	8	5	3	2	29	31	
5,080	4.023	28	17	15	10	6	4	3	29	30	
5,000	4.023	30	20	17	12	8	4	3	29	30	
4,920	4.045	26	16	13	9	6	4	3	29	31	km 4 = 1000m
4,840	4.030	26	16	14	10	6	3	2	29	31	
4,760	4.023	27	15	12	8	5	3	2	29	31	
4,680	4.052	25	17	14	10	6	3	2	29	30	
4,600	4.016	29	17	13	9	5	2	1	29	31	
4,520	4.016	46	29	24	17	9	4	2	29	30	
4,440	4.074	32	20	16	10	6	3	2	29	31	
4,360	4.038	38	21	16	10	6	3	2	29	30	
4,280	4.002	37	23	18	11	6	3	2	29	30	
4,200	4.030	38	24	20	15	9	5	3	29	30	
4,120	4.038	30	22	20	16	10	6	4	29	30	
4,040	4.045	25	18	17	13	9	5	4	29	30	
3,960	4.016	31	24	21	16	10	5	4	29	30	km 3 = 1000m
3,880	4.030	37	25	21	15	9	6	4	29	30	
3,800	4.023	43	28	24	18	11	6	4	29	30	
3,717	4.030	39	29	23	16	9	4	3	29	30	início de ponte km 3,695
3,640	4.016	45	28	24	17	10	6	4	29	30	fim de ponte km 3,655
3,560	4.023	41	29	25	18	10	5	3	29	30	
3,480	4.016	45	28	22	15	9	6	4	29	30	
3,400	4.030	41	28	24	17	9	5	3	29	30	
3,320	4.023	43	26	23	16	10	6	4	29	30	
3,240	4.038	29	20	18	13	8	5	4	29	29	
3,158	4.023	42	29	25	19	11	6	4	29	30	
3,080	4.030	45	30	26	19	11	6	3	29	30	
3,000	4.030	42	28	24	17	11	6	4	29	29	
2,919	4.030	52	33	28	20	11	6	4	29	29	km 2 = 1000m
2,838	4.002	55	34	27	19	11	6	4	29	29	
2,757	4.009	62	37	29	19	10	5	3	29	29	
2,678	4.038	48	32	26	18	10	5	3	29	29	
2,600	4.038	33	22	20	15	9	5	3	29	29	
2,520	4.052	25	16	14	10	7	4	3	29	29	
2,440	4.016	28	18	17	14	10	7	6	29	29	

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
156,990	4.030	46	37	30	23	15	8	6	27	33	km 156 = 528m
156,917	4.052	55	43	36	27	18	10	7	27	33	
156,840	4.030	47	37	31	25	17	11	8	27	33	
156,758	4.059	26	21	18	14	10	6	5	27	34	
156,679	4.073	32	27	23	18	12	7	5	27	33	
156,599	4.052	41	33	29	23	17	10	8	27	33	
156,519	4.103	23	18	15	12	9	5	4	27	34	
155,960	4.008	61	48	39	28	18	10	8	27	34	km 155 = 1009m
155,879	4.059	31	26	24	20	16	10	9	27	34	
155,800	4.022	56	47	40	31	22	12	9	27	33	
155,719	4.037	33	27	24	20	15	10	8	27	33	
155,640	4.015	39	33	29	24	19	12	10	27	33	
155,558	4.022	30	25	22	18	14	9	7	27	33	
155,478	4.052	31	25	22	17	12	8	6	27	33	
155,398	4.044	20	16	14	12	9	6	5	27	33	
155,319	4.044	20	16	13	11	8	6	5	27	33	
155,238	4.037	24	18	15	11	8	5	4	27	34	
155,158	4.044	19	15	12	10	8	5	5	27	33	
155,078	4.066	25	21	17	13	10	6	5	27	33	
155,000	4.081	16	13	10	8	6	4	4	27	33	
154,919	4.095	28	23	19	14	10	6	4	27	33	km 154 = 1000m
154,839	4.103	25	20	17	13	10	7	6	27	33	
154,758	4.095	26	21	18	15	11	7	5	27	34	
154,677	4.110	23	18	15	12	9	6	5	27	33	
154,599	4.088	25	18	14	10	7	4	3	27	34	
154,522	4.103	25	19	15	11	7	4	4	27	34	
154,439	4.110	17	13	11	9	6	4	3	27	34	
154,361	4.095	18	14	11	9	6	3	3	27	34	
154,280	4.088	12	9	7	5	3	2	1	27	34	
154,198	4.081	14	11	8	7	5	3	2	27	34	
154,120	4.088	15	10	7	6	4	3	2	27	34	
154,040	4.088	16	11	8	6	4	2	2	27	35	
153,958	4.088	14	10	8	6	5	3	2	27	35	km 153 = 1000m
153,877	4.073	22	18	15	13	9	5	5	27	35	
153,798	4.103	18	13	10	7	4	2	2	27	35	
153,722	4.095	12	9	7	6	4	3	2	27	35	
153,641	4.088	14	11	9	8	6	4	3	27	35	
153,560	4.125	15	11	9	7	5	3	3	27	35	
153,470	4.103	15	11	9	7	5	4	3	3	35	
153,399	4.103	17	11	9	7	5	3	3	30	35	
153,318	4.125	16	12	10	8	6	4	3	30	35	
153,240	4.073	22	17	14	11	7	5	4	30	35	
153,160	4.088	19	15	12	10	7	4	4	30	35	
153,079	4.066	22	17	14	11	8	5	5	30	35	
153,000	4.066	22	17	14	10	7	4	3	30	35	
152,918	4.052	24	20	17	14	10	6	5	30	35	km 152 = 1000m
152,839	4.044	26	21	18	15	10	6	6	30	35	
152,758	4.066	18	14	11	9	6	3	2	30	35	
152,680	4.059	25	20	17	14	10	7	5	30	36	
152,599	4.044	45	36	29	22	14	8	6	30	36	
152,518	4.095	21	16	13	10	7	4	3	30	36	
152,438	4.095	17	13	11	9	6	4	3	30	36	
152,359	4.044	48	39	32	25	17	9	7	30	36	
152,271	4.066	25	20	17	13	9	6	5	30	36	
152,202	4.095	16	13	11	9	7	4	4	30	36	
152,121	4.022	52	36	27	20	13	8	6	30	36	
152,040	4.037	41	32	26	20	13	8	6	30	36	
151,960	4.059	24	18	15	11	8	5	4	30	36	km 151 = 1006m
151,879	4.059	14	10	8	6	4	3	2	30	36	
151,800	4.044	24	19	16	13	10	6	5	30	36	
151,719	4.073	13	9	7	6	4	3	3	30	36	
151,638	4.066	19	14	10	7	4	2	2	30	36	
151,560	4.030	23	19	16	14	11	7	6	30	36	
151,482	4.066	16	12	9	6	4	2	1	30	36	
151,401	4.052	29	24	20	16	11	7	6	30	36	
151,320	4.052	30	24	19	14	8	5	5	30	36	
151,238	4.037	23	18	14	9	6	3	3	30	36	
151,160	4.044	24	17	14	10	7	4	3	30	36	
151,080	4.059	27	20	15	10	6	3	2	30	36	
151,000	4.044	13	8	6	4	4	3	2	30	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
150,919	4.044	29	21	16	12	9	6	5	30	36	km 150 = 1000m
150,838	4.059	27	22	18	14	9	5	4	30	35	
150,757	4.095	14	10	7	6	4	2	2	30	35	
150,678	4.081	19	14	11	8	5	2	2	30	35	
150,601	4.059	23	18	14	11	7	4	3	30	34	
150,521	4.059	21	17	14	10	7	4	3	30	35	
150,441	4.030	19	15	12	9	6	4	4	30	35	
150,361	4.044	21	16	13	10	7	5	4	30	35	
150,279	4.044	25	20	16	12	8	5	4	30	35	
150,199	4.044	21	16	13	10	7	4	4	30	35	
150,120	4.095	16	12	10	8	6	4	3	30	35	
150,040	4.066	21	16	12	9	6	4	3	30	36	
149,960	4.022	32	25	20	17	10	6	5	30	36	km 149 = 966m
149,879	3.964	68	52	41	30	19	10	8	30	36	
149,799	4.030	25	18	15	12	9	6	5	30	36	
149,719	3.993	46	35	28	22	15	8	6	30	36	
149,637	4.022	26	17	13	9	6	4	4	30	36	
149,558	4.052	29	19	14	11	8	6	5	30	36	
149,480	4.044	23	15	11	8	6	4	4	30	36	
149,400	4.052	23	16	11	7	5	3	3	30	36	
149,319	4.037	31	24	19	14	10	6	5	30	36	
149,238	4.052	14	9	7	5	4	3	3	30	35	
149,158	4.052	18	13	10	7	5	3	3	30	36	
149,077	4.037	22	16	12	8	5	3	3	30	36	
149,000	4.000	37	26	19	14	9	6	4	30	36	
148,920	4.219	21	16	13	9	5	3	2	30	29	km 148 = 1040m
148,839	4.234	21	16	14	11	8	5	4	30	29	
148,760	4.212	23	18	15	11	7	4	3	30	30	
148,681	4.146	45	38	33	27	19	12	9	30	30	
148,603	4.176	30	25	21	17	11	7	5	30	30	
148,519	4.190	21	18	14	13	8	4	3	30	30	
148,442	4.176	30	25	21	16	10	5	4	30	30	
148,360	4.168	31	26	21	16	10	6	4	30	30	
148,280	4.176	22	18	15	12	8	5	3	30	30	
148,200	4.176	16	12	10	7	5	3	2	30	30	
148,117	4.190	18	14	11	8	6	4	3	30	30	
148,037	4.176	21	17	14	10	7	4	3	30	30	
147,960	4.190	16	13	10	8	6	3	3	30	30	km 147 = 1000m
147,879	4.168	17	13	9	7	5	3	3	30	31	
147,799	4.168	23	18	15	12	9	5	4	30	30	
147,717	4.205	22	17	13	9	5	3	3	30	31	
147,637	4.190	9	7	7	6	5	4	3	30	30	
147,560	4.168	22	16	13	10	7	5	4	30	30	
147,480	4.168	32	27	23	18	13	8	7	30	30	
147,400	4.125	38	32	28	22	16	10	8	30	31	
147,318	4.132	32	26	21	16	11	6	4	30	30	
147,239	4.110	38	29	23	16	9	5	3	30	31	
147,157	4.190	20	15	12	9	6	3	3	30	31	
147,079	4.161	28	24	20	16	11	7	5	30	31	
147,000	4.161	27	20	15	12	8	5	5	30	31	
146,920	4.168	29	23	19	14	10	6	4	30	31	km 146 = 1000m
146,840	4.168	20	16	13	10	7	4	2	30	31	
146,760	4.176	21	17	14	11	7	4	3	30	31	
146,681	4.125	27	22	19	15	11	7	5	30	31	
146,601	4.125	38	32	28	22	16	10	8	30	31	
146,521	4.088	35	30	26	21	14	8	6	30	31	
146,439	4.088	31	26	21	17	11	7	5	30	31	
146,360	4.146	24	18	14	10	6	3	2	30	31	
146,279	4.139	29	24	19	16	9	5	3	30	30	
146,198	4.117	28	23	19	15	9	5	3	30	31	
146,118	4.139	21	16	13	10	6	3	2	30	31	
146,039	4.117	18	14	11	8	5	3	2	30	31	
145,959	4.081	29	25	21	16	10	5	3	30	31	km 145 = 1000m
145,880	4.139	24	20	16	12	7	3	2	30	31	
145,798	4.125	28	23	18	14	8	4	3	30	32	
145,717	4.117	29	24	21	16	10	6	3	30	31	
145,640	4.095	28	22	18	14	9	6	4	30	31	
145,561	4.132	25	20	17	14	9	6	5	30	31	
145,480	4.088	44	37	31	24	17	10	7	30	31	
145,399	4.132	32	24	19	14	8	4	2	30	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA:	Decrescente	FAIXA: Simples									
SENTIDO:	MG/DF	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
145,317	4.103	32	26	22	17	11	7	5	30	31	
145,238	4.095	24	19	15	11	7	4	3	30	31	
145,157	4.081	51	40	31	21	12	5	3	30	31	
145,066	4.103	29	24	20	16	10	6	5	30	31	
145,000	4.110	31	25	22	17	12	7	5	30	31	
144,919	4.110	18	16	15	13	10	7	5	30	30	km 144 = 978m
144,839	4.110	23	19	16	13	10	6	4	30	31	
144,759	4.088	28	24	21	17	12	8	6	30	31	
144,677	4.059	61	47	38	29	18	9	5	30	31	
144,597	4.095	22	18	15	12	8	4	3	30	31	
144,520	4.110	27	21	17	13	8	5	3	30	31	
144,441	4.103	23	19	15	13	9	6	4	30	31	
144,359	4.110	21	17	14	12	9	5	3	30	31	
144,278	4.081	29	24	20	16	11	7	5	30	31	
144,198	4.117	23	19	17	15	12	9	7	30	31	
144,119	4.088	33	28	25	21	16	11	8	30	31	
144,040	4.052	43	33	28	24	18	11	9	30	31	
143,960	4.066	34	28	23	18	13	8	6	30	31	km 143 = 1000m
143,879	4.088	31	29	24	22	17	12	9	30	32	
143,799	4.125	26	22	20	17	14	10	8	30	32	
143,717	4.081	27	22	19	15	12	8	7	30	32	
143,640	4.073	38	24	17	12	7	5	4	30	32	
143,560	4.110	36	25	19	13	7	4	3	30	32	
143,479	4.081	25	18	14	10	6	3	3	30	32	
143,399	4.117	25	20	16	13	8	5	4	30	32	
143,318	4.110	16	12	8	6	4	2	2	30	33	
143,242	4.088	15	11	8	6	5	3	3	30	33	
143,162	4.088	17	13	11	9	7	4	3	30	32	
143,081	4.073	29	22	16	11	6	4	3	30	32	
143,000	4.081	25	20	15	11	9	5	4	30	33	
142,920	4.081	27	22	17	14	9	5	4	30	33	km 142 = 1030m
142,840	4.103	15	11	9	7	5	3	3	30	32	
142,759	4.066	30	24	20	16	11	6	5	30	32	início de ponte km 142,677
142,597	4.044	14	11	9	8	6	4	3	30	33	fim de ponte km 142,620
142,520	4.081	27	21	16	12	8	5	4	30	33	
142,439	4.088	27	19	14	10	8	5	4	30	33	
142,360	4.081	35	27	21	15	9	5	4	30	32	
142,279	4.073	31	23	18	13	8	4	3	30	33	
142,202	4.117	35	26	20	14	8	4	2	30	33	
142,120	4.110	33	25	19	13	8	4	3	30	33	
142,040	4.103	35	26	20	14	9	5	4	30	33	
141,960	4.088	42	26	20	13	8	5	4	30	33	km 141 = 1000m
141,879	4.073	38	24	17	10	6	3	2	30	34	
141,798	4.095	43	29	21	14	9	5	3	30	34	
141,719	4.103	45	28	19	13	7	4	4	30	34	
141,640	4.073	45	33	23	15	9	4	3	30	34	
141,560	4.139	36	23	16	10	6	3	2	30	34	
141,479	4.132	17	12	9	7	5	3	3	30	34	
141,398	4.066	50	33	26	19	12	7	6	30	35	
141,318	4.066	38	26	19	13	8	4	3	30	35	
141,240	4.044	51	34	26	18	11	6	4	30	35	
141,161	4.103	26	15	10	7	5	3	3	30	35	
141,080	4.095	38	25	19	14	11	7	5	30	35	
141,000	4.125	18	12	9	6	4	2	1	30	35	
140,918	4.088	30	19	14	11	8	5	4	30	35	km 140 = 1000m
140,837	4.073	37	26	20	14	8	5	4	30	34	
140,757	4.110	38	27	20	14	8	5	4	30	34	
140,680	4.110	18	14	11	9	6	4	3	30	34	
140,599	4.073	43	29	21	14	8	4	3	30	34	
140,519	4.095	24	19	14	11	8	4	3	30	34	
140,418	4.081	37	31	24	18	11	6	4	30	34	
140,360	4.095	34	24	19	14	9	6	5	30	34	
140,280	4.088	35	29	24	19	14	8	7	30	34	
140,197	4.110	30	21	16	13	10	6	6	30	34	
140,119	4.103	56	38	29	19	11	6	5	30	34	
140,038	4.044	54	45	38	29	20	11	8	30	35	
139,960	4.110	25	22	20	17	13	8	6	30	35	km 139 = 1000m
139,881	4.073	39	26	19	13	9	6	4	30	34	
139,799	4.044	53	41	31	23	15	8	6	30	34	
139,718	4.015	66	51	39	29	18	10	7	30	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
139,639	4.015	55	37	29	22	15	10	6	30	34	
139,559	4.095	33	24	18	13	7	4	2	30	34	
139,478	4.073	52	39	28	20	12	6	4	30	34	
139,400	4.095	36	25	18	14	10	5	5	30	34	
139,320	3.986	56	41	35	28	18	10	7	30	34	
139,239	4.081	31	26	21	17	12	6	5	30	34	
139,158	4.095	36	27	21	16	11	6	4	30	34	
139,077	4.081	30	25	21	16	11	7	5	30	34	
138,998	4.081	32	25	20	15	9	5	4	30	34	km 138 = 1000m
138,918	4.030	52	40	31	22	14	8	5	30	34	
138,837	4.030	53	42	35	27	18	10	7	30	34	
138,757	4.044	36	27	22	18	14	9	7	30	34	
138,680	4.073	31	26	21	17	13	8	6	30	34	
138,602	4.052	22	19	18	16	13	8	7	30	34	
138,520	4.066	43	32	25	18	12	8	6	30	34	
138,439	4.030	61	52	27	20	12	7	4	30	34	
138,360	3.986	82	51	35	19	7	3	1	30	34	
138,279	3.993	66	43	29	19	9	5	3	30	33	
138,197	4.110	11	9	8	7	5	3	3	30	33	
138,118	4.095	32	24	19	13	8	4	3	30	33	
138,037	4.073	71	45	32	22	13	5	2	30	33	
137,960	4.103	41	31	23	16	9	4	3	30	33	km 137 = 1000m
137,880	4.103	45	30	23	17	10	5	3	30	34	
137,798	4.095	47	32	22	16	10	5	4	30	34	
137,718	4.110	34	24	18	14	8	5	4	30	34	
137,638	4.059	55	36	26	18	10	5	4	30	34	
137,557	4.044	52	34	24	16	8	4	3	30	34	
137,480	4.081	56	38	29	22	13	7	5	30	35	
137,399	4.066	51	34	25	17	11	6	4	30	34	
137,320	4.088	32	20	13	9	6	3	3	30	35	
137,243	4.073	54	36	27	19	12	7	5	30	34	
137,163	4.052	50	35	26	18	10	5	4	30	35	
137,082	3.971	79	55	39	16	12	7	3	30	35	
137,000	4.066	54	39	30	22	14	8	6	30	35	
136,919	4.081	38	24	18	13	8	4	3	30	35	km 136 = 1000m
136,838	4.052	57	36	27	19	12	7	5	30	34	
136,758	4.066	31	22	16	13	9	5	5	30	35	
136,678	4.044	51	37	29	22	15	9	7	30	35	início de ponte km 136,660
136,520	4.022	43	27	20	15	11	6	5	30	35	fim de ponte km 136,568
136,440	4.037	40	29	23	18	11	6	4	30	35	
136,361	4.015	55	39	30	23	15	8	6	30	35	
136,280	4.000	56	39	32	24	15	8	6	30	35	
136,199	3.971	74	54	42	31	17	7	4	30	35	
136,120	4.022	59	40	31	23	15	8	6	30	35	
136,040	4.008	63	43	33	20	12	5	3	30	35	
135,960	4.015	55	45	25	18	11	6	4	30	35	km 135 = 1000m
135,879	3.964	76	51	35	22	12	7	3	30	35	
135,799	4.059	70	45	30	19	8	3	2	30	35	
135,718	4.037	65	47	34	22	11	6	3	30	35	
135,640	3.964	75	47	31	19	10	5	3	30	36	
135,561	3.993	69	48	30	20	11	6	4	30	36	
135,480	4.022	50	36	28	21	13	6	5	30	35	
135,400	4.000	54	35	26	18	11	6	4	30	35	
135,321	3.971	71	45	33	24	14	7	5	30	35	
135,240	4.052	44	32	23	15	8	3	3	30	35	
135,158	4.044	42	26	18	12	6	3	2	30	35	
135,078	4.044	22	16	13	10	7	4	3	30	35	
135,000	4.030	48	29	20	14	8	4	3	30	34	
134,919	4.030	50	34	24	17	10	5	4	30	35	km 134 = 1000m
134,839	4.000	73	48	35	24	12	6	4	30	34	
134,759	4.052	57	35	24	16	9	5	4	30	34	
134,680	4.059	54	34	24	16	9	4	3	30	34	
134,601	4.073	56	38	27	18	10	5	3	30	33	
134,521	4.022	78	46	31	20	11	5	3	30	33	
134,441	4.073	46	34	27	20	11	5	3	30	33	
134,360	4.000	63	38	26	17	8	4	3	30	34	
134,280	3.869	89	55	42	28	18	9	6	30	34	
134,199	4.015	76	43	32	23	13	7	5	30	34	
134,119	4.044	53	29	21	14	8	4	3	30	34	
134,039	4.066	26	17	12	7	4	2	1	30	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
133,959	4.022	56	36	27	20	12	6	5	30	34	km 133 = 1000m
133,879	4.044	58	36	24	16	9	4	3	30	34	
133,799	4.052	43	31	22	15	10	6	5	30	34	
133,721	4.030	74	46	31	19	9	4	3	30	34	
133,642	4.052	57	36	25	17	10	5	3	30	34	
133,561	4.059	50	33	22	14	7	3	3	30	34	
133,481	4.044	48	32	24	17	10	6	4	30	34	
133,400	4.044	63	45	32	21	11	5	3	30	34	
133,319	4.081	38	25	19	13	8	4	4	30	34	
133,238	3.986	66	41	29	20	12	3	6	30	34	
133,160	4.081	34	25	20	15	9	5	5	30	34	
133,082	4.037	63	28	18	11	6	3	4	30	34	
133,000	4.066	40	25	17	11	7	3	3	30	35	
132,920	4.066	44	26	17	11	6	3	2	30	34	km 132 = 1000m
132,839	4.000	81	51	29	18	7	2	2	30	35	
132,758	4.059	63	46	32	20	10	4	2	30	35	
132,678	4.037	61	35	24	16	9	5	3	30	35	
132,597	4.073	42	33	25	14	8	4	4	30	34	
132,517	4.037	53	35	27	20	11	6	4	30	35	
132,440	4.044	53	36	26	18	10	5	4	30	34	
132,360	4.059	44	24	16	10	6	4	3	30	35	
132,279	4.037	56	36	21	12	5	2	2	30	35	
132,199	4.037	33	20	12	8	5	3	3	30	35	
132,118	4.044	37	25	18	13	8	5	4	30	35	
132,040	3.993	67	47	35	24	13	6	5	30	35	
131,960	4.008	37	27	22	17	11	6	4	30	35	km 131 = 1000m
131,879	4.022	29	18	12	9	5	3	3	30	35	
131,799	4.037	26	15	11	8	5	3	3	30	35	
131,719	4.030	40	27	20	15	9	5	4	32	35	
131,638	4.030	42	29	21	15	8	5	4	32	35	
131,557	4.037	46	28	21	14	8	4	3	32	34	
131,478	4.052	44	26	18	12	7	4	4	32	35	
131,400	4.059	46	29	19	13	8	4	3	32	35	
131,320	3.993	96	55	34	19	8	4	3	32	34	
131,239	3.986	84	51	35	22	11	5	4	32	34	
131,158	4.022	62	49	39	28	13	6	5	32	34	
131,080	4.022	55	35	26	19	11	6	4	32	34	
131,000	4.022	53	38	28	19	10	4	4	32	34	
130,917	4.044	36	22	16	11	7	4	4	32	33	km 130 = 1000m
130,840	4.066	29	21	16	13	9	4	4	32	33	
130,759	4.059	27	20	14	12	7	4	3	32	33	
130,678	4.059	39	24	16	11	7	4	3	32	33	
130,598	4.037	46	26	18	12	7	4	4	32	33	
130,520	4.059	39	22	14	10	6	4	3	32	33	
130,440	4.000	59	36	25	16	8	4	3	32	33	
130,360	4.073	51	39	31	22	10	4	3	32	33	
130,279	4.044	34	17	12	8	5	3	2	32	32	
130,198	4.008	56	40	26	16	9	4	3	32	32	
130,120	4.044	41	23	15	10	6	3	3	32	32	
130,040	4.052	28	20	16	13	8	4	3	32	32	
129,960	4.022	55	33	24	15	8	5	3	32	32	km 129 = 1000m
129,880	4.044	43	26	18	13	7	4	3	32	32	
129,798	4.052	28	18	13	9	5	3	2	32	32	
129,718	4.022	32	23	18	14	9	5	4	32	32	
129,638	4.022	37	19	12	8	5	3	2	32	32	
129,558	3.935	98	47	32	16	7	3	3	32	32	
129,477	4.015	51	33	25	18	11	6	4	32	32	
129,400	3.957	85	51	32	20	10	5	4	32	33	
129,321	4.000	60	45	36	27	14	6	3	32	33	
129,242	4.059	25	19	15	11	6	3	2	32	32	
129,161	4.030	29	23	18	14	9	4	3	32	32	
129,080	4.008	61	37	24	16	7	3	2	32	32	
129,000	4.044	30	21	17	13	8	4	3	32	33	
128,920	4.044	25	19	15	12	8	4	4	32	32	km 128 = 1000m
128,840	4.015	29	21	18	15	10	6	4	32	33	
128,763	4.030	30	22	18	14	9	4	3	32	32	
128,682	4.037	50	31	20	14	9	6	5	32	33	
128,601	4.008	26	19	16	12	7	4	3	32	32	
128,520	4.030	36	22	16	13	9	5	4	30	33	
128,439	3.993	51	38	30	23	13	7	5	30	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
128,358	4.015	33	23	19	15	10	6	5	30	33	
128,278	4.015	46	27	17	12	8	5	4	30	33	
128,198	4.030	52	36	28	21	12	6	4	30	33	
128,120	4.044	35	21	16	12	8	5	4	30	32	
128,040	4.022	44	27	17	11	6	3	3	30	32	
127,961	4.008	43	29	19	13	7	3	3	30	32	km 127 = 1000m
127,881	3.986	68	48	35	24	11	4	3	30	32	
127,801	4.052	64	43	30	19	9	4	3	30	32	
127,720	4.081	51	36	27	20	11	5	3	30	32	
127,638	4.088	29	22	18	14	9	4	3	30	32	
127,558	4.059	46	33	24	16	8	3	2	30	32	
127,480	4.081	28	20	15	12	7	4	3	30	33	
127,403	4.059	29	21	17	13	8	4	3	30	32	
127,323	4.059	25	18	14	10	6	3	2	30	32	
127,242	4.052	44	27	20	14	7	3	2	30	33	
127,161	4.044	51	30	19	12	7	3	2	30	32	
127,079	4.044	56	34	24	16	9	5	3	30	32	
127,000	4.052	35	22	16	11	7	4	4	30	33	
126,919	3.891	67	50	36	25	13	8	6	30	32	km 126 = 1000m
126,840	4.030	43	33	27	22	14	8	6	30	32	
126,761	4.008	45	35	28	22	14	8	5	30	32	
126,681	4.030	40	29	23	18	11	6	4	30	32	
126,602	4.044	37	26	20	14	8	4	2	30	32	
126,521	3.993	58	34	26	20	13	7	6	30	32	
126,441	4.022	56	47	24	17	11	6	5	30	32	
126,359	4.059	26	19	15	12	8	5	3	30	32	
126,280	4.022	37	29	24	19	13	7	5	30	32	
126,199	4.073	35	26	20	15	9	5	3	30	32	
126,118	4.044	20	15	13	11	8	5	4	30	32	
126,038	4.081	19	14	11	8	5	3	2	30	31	
125,960	4.059	24	17	13	10	6	3	2	30	32	km 125 = 1000m
125,878	4.037	30	23	19	16	11	6	4	30	32	
125,800	4.037	43	30	22	15	9	5	4	30	31	
125,719	4.066	26	18	15	12	8	5	4	30	32	
125,639	4.052	31	22	17	13	9	6	4	30	32	
125,559	4.066	25	19	17	14	10	6	5	30	32	
125,477	4.037	35	26	22	18	13	8	6	30	32	
125,400	4.073	33	25	21	17	11	7	5	30	32	
125,319	4.081	21	16	14	11	9	5	4	30	31	
125,239	4.081	24	18	15	12	9	6	5	30	32	
125,158	4.059	28	20	17	13	9	5	4	30	32	
125,078	4.044	31	24	20	17	11	6	5	30	31	
125,000	4.044	40	29	22	17	11	6	5	30	31	
124,920	4.030	30	24	20	16	11	7	5	30	31	km 124 = 1000m
124,842	4.059	33	26	21	17	12	6	5	30	31	
124,762	4.059	42	29	23	19	13	8	6	30	31	
124,682	4.030	42	29	22	17	11	7	5	30	31	
124,600	4.008	48	32	25	19	13	7	5	30	31	
124,520	4.052	30	22	18	14	10	6	5	30	31	
124,440	4.030	45	27	18	12	7	5	4	30	31	
124,358	4.037	28	21	15	13	9	5	4	30	31	
124,280	4.030	39	23	18	13	9	5	4	30	31	
124,200	4.059	28	17	13	10	7	5	4	30	31	
124,119	4.037	38	25	19	13	9	5	5	30	31	
124,040	4.037	46	25	19	14	9	5	4	30	31	
123,962	4.044	29	21	17	12	8	5	4	30	31	km 123 = 1000m
123,881	4.022	41	23	16	12	7	4	3	30	30	
123,801	4.022	46	28	22	17	11	6	4	30	31	
123,719	4.066	24	17	14	11	7	4	3	30	31	
123,639	3.971	25	20	15	13	8	5	4	30	31	
123,558	3.942	64	45	32	21	10	4	3	30	30	
123,478	4.059	40	30	24	18	12	6	5	30	30	
123,400	3.993	68	47	35	25	15	8	7	30	30	
123,319	4.030	52	36	26	19	11	6	5	30	30	
123,239	4.044	39	27	21	17	11	6	5	30	31	
123,160	3.993	76	50	39	27	16	8	5	30	31	
123,077	4.066	31	21	16	12	7	4	3	30	30	
123,000	4.052	36	27	21	16	10	6	4	30	30	
122,920	4.088	34	21	15	11	6	3	2	30	30	km 122 = 1000m
122,840	4.015	67	39	27	19	11	6	4	30	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:		km 157 ao km 24,820		DATA:		Abril/2007			
PISTA:	Decrescente	FAIXA:		Simples							
SENTIDO:	MG/DF	ENSAIO:		a cada 80 m							
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
122,761	4.037	61	36	25	17	9	4	2	30	30	
122,682	4.030	54	32	22	15	9	4	3	30	30	
122,599	4.015	67	44	34	26	12	7	4	30	31	
122,521	4.066	36	25	20	14	8	4	3	28	30	
122,439	4.044	39	23	17	12	6	4	3	28	30	
122,359	4.008	53	32	22	14	7	4	3	28	30	
122,278	3.964	101	63	41	27	17	10	7	28	30	
122,198	3.986	85	55	40	29	19	11	8	28	30	
122,118	3.942	70	44	33	23	14	7	5	28	30	
122,037	4.066	27	18	14	10	6	3	3	28	30	
121,960	4.066	34	24	19	14	8	3	2	28	30	km 121 = 1007m
121,878	4.037	49	34	26	19	11	6	4	28	30	
121,800	4.008	62	37	27	19	12	6	4	28	30	
121,718	4.037	60	43	33	23	13	7	5	28	30	
121,637	3.957	84	44	34	24	14	8	5	28	30	
121,560	3.986	50	35	28	21	12	7	5	28	30	
121,482	4.030	49	32	26	20	13	8	6	28	30	
121,401	3.913	60	41	31	23	15	9	6	28	31	
121,320	3.935	83	43	28	21	12	7	5	28	30	
121,260	4.030	43	27	21	15	10	6	4	28	30	
121,179	4.059	47	27	19	13	8	4	4	28	30	
121,120	3.803	64	40	29	21	12	7	6	28	30	
121,000	4.059	51	36	28	22	13	7	5	28	30	
120,920	4.037	54	34	26	19	12	7	5	28	30	km 120 = 1000m
120,839	4.030	53	36	30	23	14	8	6	28	30	
120,759	4.059	45	31	24	19	12	7	5	28	30	
120,678	4.059	45	34	27	21	14	8	6	28	30	
120,600	4.059	42	31	25	19	12	7	6	28	30	
120,519	4.066	44	34	26	20	12	7	5	28	30	
120,439	4.073	37	27	22	17	12	7	5	28	30	
120,359	4.059	55	35	25	18	11	5	5	28	30	
120,278	4.066	40	29	23	18	12	7	5	28	30	
120,200	3.913	81	41	31	21	12	7	5	28	30	
120,120	4.052	38	30	25	19	13	8	6	28	30	
120,039	4.059	50	37	29	22	14	7	6	28	30	
119,960	4.037	56	41	32	24	15	8	7	28	30	km 119 = 1000m
119,879	3.920	94	59	43	30	16	9	7	28	29	
119,799	4.022	70	49	36	25	14	7	6	28	30	
119,718	4.052	60	41	31	22	14	8	6	28	29	
119,637	3.935	82	51	32	19	11	6	5	28	29	
119,560	4.081	42	30	23	16	10	6	5	28	29	
119,480	4.059	55	39	29	21	12	6	5	28	29	
119,398	4.059	59	34	26	19	12	6	5	28	29	
119,318	4.052	49	36	27	19	11	6	5	28	29	
119,238	3.986	62	43	30	24	13	4	5	28	29	
119,160	4.073	45	30	20	15	9	5	4	28	29	
119,079	4.081	36	27	21	16	11	6	5	28	29	
119,000	4.095	26	19	16	13	9	5	4	28	29	
118,920	4.037	44	30	22	16	9	5	4	30	33	km 118 = 1000m
118,841	4.117	31	21	16	12	8	4	4	30	33	
118,759	4.066	39	29	22	16	11	6	5	30	32	
118,679	4.081	35	26	20	15	10	6	5	30	33	
118,599	4.066	58	37	27	19	12	7	6	30	33	
118,519	4.073	42	32	26	19	12	6	5	30	33	
118,438	4.081	40	30	25	19	13	7	6	30	33	
118,357	4.088	48	33	25	19	12	7	6	30	33	
118,280	4.081	33	26	21	16	11	5	5	30	33	
118,200	4.073	33	26	21	16	11	6	5	30	33	
118,120	4.073	33	25	20	14	9	5	4	30	33	
118,039	4.095	27	19	16	12	8	4	4	30	33	
117,961	4.081	33	24	20	15	9	5	4	30	33	km 117 = 1000m
117,879	4.081	31	22	18	14	9	5	5	30	33	
117,799	4.081	35	29	20	16	9	5	5	30	33	
117,717	4.059	32	26	19	15	10	5	4	30	33	
117,638	4.103	27	20	16	12	8	5	4	30	33	
117,557	4.081	34	23	18	14	9	6	4	30	33	
117,480	4.088	29	22	18	14	9	4	4	30	34	
117,400	4.081	34	25	19	14	10	5	4	30	34	
117,321	4.103	29	22	18	14	10	6	5	30	34	
117,240	4.073	29	21	17	13	9	6	5	30	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820						DATA: Abril/2007			
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
117,157	4.088	32	24	18	14	9	5	4	30	34	
117,077	4.037	32	23	18	14	9	5	4	30	34	
117,000	4.088	29	20	16	12	8	4	3	30	34	
116,919	4.066	34	24	20	15	9	5	4	30	34	km 116 = 1010m
116,840	4.066	39	30	24	19	12	6	5	30	34	
116,759	4.073	27	21	17	14	9	5	4	30	34	
116,677	4.081	31	23	18	15	9	5	4	30	35	
116,598	4.030	31	22	18	13	8	5	4	30	34	
116,518	4.044	34	26	22	17	11	6	4	30	34	
116,440	4.081	32	24	20	16	10	6	5	30	34	
116,360	4.052	41	27	21	15	10	6	5	30	34	
116,280	4.044	35	25	20	15	10	6	5	30	34	
116,199	4.081	41	28	22	17	10	6	5	30	34	
116,118	4.052	39	29	24	19	12	6	5	30	34	
116,038	4.073	34	25	20	15	10	5	4	30	34	
115,958	4.073	32	22	18	14	9	5	4	30	34	km 115 = 1000m
115,880	4.073	30	22	18	15	10	6	4	30	34	
115,800	4.073	31	21	16	12	8	5	4	30	34	
115,717	4.081	29	19	16	12	8	5	4	30	34	
115,639	4.081	36	26	20	15	9	5	4	30	34	
115,560	4.073	31	21	16	13	9	5	4	30	34	
115,482	4.073	55	39	29	19	11	6	4	30	34	
115,402	4.081	41	30	23	19	12	6	5	30	34	
115,322	4.095	29	23	18	15	9	5	4	30	35	
115,240	4.073	35	24	20	15	10	5	4	30	34	
115,158	4.081	29	22	18	15	10	6	5	30	35	
115,080	4.110	29	22	18	14	9	5	3	30	34	
115,000	4.095	27	20	16	12	8	4	3	30	35	
114,919	4.095	27	17	13	9	5	3	2	30	35	km 114 = 1000m
114,839	4.095	18	13	9	7	4	2	2	30	35	
114,757	4.066	15	10	8	6	4	2	2	30	34	
114,678	4.073	23	16	12	8	5	2	2	30	35	
114,600	4.073	33	22	18	12	7	4	2	30	35	
114,520	4.059	19	13	10	8	5	3	2	30	35	
114,439	4.095	15	10	7	6	4	2	2	30	35	
114,359	4.088	16	11	8	6	3	2	2	30	35	
114,277	4.088	22	14	9	6	4	2	1	33	35	
114,200	4.095	28	18	13	9	5	2	1	33	35	
114,117	4.110	16	10	8	6	4	2	2	33	35	
114,040	4.088	13	8	6	4	3	2	1	33	34	
113,960	4.117	12	8	6	5	2	2	1	33	35	km 113 = 1000m
113,879	4.103	26	16	12	8	5	3	2	33	35	
113,798	4.081	17	10	7	5	3	2	2	33	35	
113,720	4.088	14	9	7	6	4	2	2	33	35	
113,640	4.103	18	12	9	6	4	2	2	33	34	
113,559	4.081	15	11	8	6	4	2	2	33	34	
113,478	4.110	11	6	4	4	3	2	1	33	34	
113,402	4.103	13	7	5	4	2	1	1	33	34	
113,322	4.095	12	7	5	4	2	1	1	33	35	
113,239	4.103	19	11	8	5	3	2	1	33	34	
113,160	4.066	34	22	16	11	6	3	2	33	35	
113,079	4.103	23	15	11	7	4	2	1	33	35	
113,000	4.081	24	15	11	7	4	2	1	33	35	
112,920	4.103	17	11	8	5	3	2	1	33	35	km 112 = 1000m
112,840	4.073	40	29	24	18	11	5	3	33	35	
112,760	4.015	38	28	22	17	10	5	4	33	36	
112,680	4.044	40	28	22	17	11	6	4	33	36	
112,599	4.052	43	32	26	20	13	6	5	33	36	
112,518	4.066	26	19	15	12	9	5	4	33	36	
112,438	4.066	37	28	23	18	11	6	5	33	36	
112,360	4.066	29	21	17	13	9	5	4	33	36	
112,277	4.000	77	42	31	22	12	6	5	33	36	
112,199	4.000	76	51	38	26	14	7	5	33	35	
112,120	4.095	33	24	19	15	10	5	4	33	35	
112,040	4.052	41	29	23	17	10	5	3	33	35	
111,959	4.073	37	26	20	15	9	5	4	33	35	km 111 = 1000m
111,879	4.008	74	45	32	22	11	5	4	33	35	
111,799	4.073	30	22	17	13	8	4	3	33	36	
111,718	4.066	47	33	25	19	11	6	4	33	36	
111,642	4.073	21	15	12	10	7	4	3	33	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA:	Decrescente	FAIXA: Simples									
SENTIDO:	MG/DF	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
111,562	4.088	24	16	13	10	7	4	3	33	35	
111,479	4.073	17	12	9	7	5	3	2	33	35	
111,399	4.081	46	32	24	17	10	5	3	33	35	
111,321	4.073	41	28	21	16	9	5	3	33	35	
111,239	4.081	37	26	20	15	9	5	4	33	35	
111,159	4.030	58	36	23	17	11	5	4	33	35	
111,079	4.088	21	15	12	9	7	4	3	33	35	
111,000	4.052	54	36	25	18	10	5	4	33	36	
110,909	4.073	34	20	14	9	6	3	3	33	36	km 110 = 1000m
110,837	4.073	36	22	16	11	7	3	3	33	36	
110,760	4.081	33	21	16	11	7	3	3	33	35	
110,683	4.081	30	20	15	11	7	4	3	33	36	
110,601	4.081	33	20	15	10	6	4	2	33	35	
110,519	4.081	23	16	13	10	7	4	3	33	36	
110,440	4.066	47	31	24	17	10	5	4	33	35	
110,361	4.073	23	15	12	9	7	4	4	33	36	
110,279	4.073	19	13	10	8	6	4	4	33	36	
110,198	4.073	29	20	16	12	8	4	3	33	36	
110,120	4.081	31	22	17	13	8	4	3	33	35	
110,040	4.073	34	23	18	13	9	4	4	33	35	
109,960	4.066	33	22	17	13	8	4	3	33	35	km 109 = 1000m
109,878	4.081	31	21	15	12	7	3	3	33	35	
109,798	4.037	51	35	26	19	11	6	4	33	35	
109,718	4.059	49	33	24	18	10	5	4	33	35	
109,637	4.073	32	23	19	15	10	5	4	33	35	
109,560	4.066	32	24	18	14	8	4	4	33	35	
109,480	4.022	46	30	23	17	10	5	3	33	35	
109,378	4.059	29	20	16	13	8	4	3	33	35	
109,320	3.971	48	31	23	16	9	5	3	33	35	
109,160	4.037	48	33	26	19	11	6	4	33	34	
109,160	4.066	37	25	20	15	9	5	4	33	34	
109,080	4.073	44	32	24	18	11	6	4	33	34	
109,000	4.066	29	20	16	12	8	4	4	33	34	
108,920	4.016	63	45	35	24	14	7	5	32	34	km 108 = 1000m
108,840	4.045	36	27	22	17	10	5	4	32	34	
108,762	4.038	39	29	23	17	10	5	4	32	34	
108,678	4.038	34	25	20	16	11	6	5	32	34	
108,602	4.023	35	24	20	15	10	5	4	32	34	
108,522	4.023	41	30	24	17	10	5	4	32	34	
108,437	4.045	34	25	19	13	8	3	2	32	34	
108,360	4.052	27	18	14	11	7	4	3	32	34	
108,280	4.045	42	29	21	15	9	4	3	32	34	
108,198	4.045	28	21	17	14	10	5	4	32	35	
108,120	4.030	38	28	22	16	10	5	4	32	34	
108,040	4.030	41	27	21	15	9	5	4	32	34	
107,960	4.009	63	43	31	20	9	4	3	32	34	km 107 = 1004m
107,880	4.023	36	28	21	16	10	4	4	32	34	
107,799	4.016	55	39	30	21	12	6	4	32	34	
107,719	4.030	37	27	20	15	9	4	4	32	34	
107,638	4.030	42	31	23	18	10	4	3	32	34	
107,558	4.016	30	21	17	12	8	4	3	32	34	
107,477	4.016	37	26	20	14	9	4	3	32	34	
107,400	4.030	41	29	23	16	9	4	3	32	34	
107,318	4.023	49	35	26	18	10	5	4	32	34	
107,239	4.045	24	17	14	11	8	4	4	32	34	
107,158	3.987	57	31	21	13	7	4	3	32	34	
107,068	3.980	27	20	15	12	8	4	3	32	34	
106,998	4.009	44	31	25	17	10	4	4	32	34	
106,840	4.009	42	30	22	15	9	5	4	32	34	km 106 = 1000m
106,718	3.922	31	23	19	15	10	5	4	32	34	
106,637	4.023	29	22	18	14	9	5	4	32	34	
106,557	4.030	22	16	13	10	7	4	4	32	33	
106,480	3.966	45	33	26	19	12	6	5	32	33	
106,395	3.994	39	28	21	15	9	5	4	32	33	
106,320	4.016	38	27	22	17	10	5	4	32	33	
106,240	3.980	58	43	33	23	13	7	6	32	33	
106,200	4.009	50	36	28	20	12	6	4	32	33	
106,120	4.009	51	36	28	20	11	6	5	32	33	
106,040	4.016	38	28	20	14	9	4	4	32	33	
105,960	4.009	38	29	23	17	10	5	4	32	33	km 105 = 1007m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
105,881	4.038	37	27	21	15	9	5	3	32	33	
105,800	4.009	48	32	23	12	6	3	3	32	32	
105,719	3.973	44	30	23	15	8	4	3	32	33	
105,638	4.009	45	31	23	16	9	4	3	32	33	
105,558	4.016	33	26	20	14	8	4	3	32	33	
105,480	4.023	33	24	19	14	9	4	3	32	33	
105,400	4.023	33	22	16	11	7	4	3	32	33	
105,320	4.009	44	32	25	18	10	5	4	32	33	
105,239	4.009	54	38	28	19	10	5	4	32	33	
105,159	3.987	51	36	27	18	9	4	4	32	33	
105,080	3.987	53	35	24	15	6	3	2	32	33	
105,000	3.987	40	27	18	12	6	3	3	32	33	
104,919	3.980	47	24	17	10	4	2	2	32	33	km 104 = 1000m
104,839	4.002	39	26	18	12	6	3	2	32	32	
104,758	4.009	30	21	16	11	7	4	3	32	32	
104,678	4.009	30	21	16	11	6	3	2	32	32	
104,597	4.009	27	18	13	9	5	2	2	32	32	
104,517	4.009	32	21	15	10	5	2	2	32	32	
104,437	3.994	35	24	15	10	5	2	2	32	32	
104,360	4.023	31	21	15	10	6	3	2	32	32	
104,281	4.002	34	23	17	12	7	3	2	32	32	
104,199	3.994	32	21	15	10	5	3	2	32	32	
104,119	4.016	27	19	14	10	5	3	2	32	32	
104,037	3.994	38	26	19	12	6	3	3	32	32	
103,960	4.002	43	29	22	15	9	5	4	32	32	km 103 = 1000m
103,881	4.002	52	34	26	18	11	5	4	32	32	
103,802	4.009	36	25	19	13	7	3	2	32	32	
103,720	4.009	39	27	19	12	6	2	2	32	32	
103,639	4.002	33	23	18	12	6	3	2	32	32	
103,560	4.038	32	23	17	12	7	3	3	32	32	
103,480	4.009	57	34	21	11	5	3	2	32	32	
103,399	4.030	30	21	15	10	5	3	2	32	32	
103,319	4.002	45	26	16	10	5	3	2	32	31	
103,240	4.023	35	25	18	13	7	4	3	32	31	
103,161	4.030	37	24	18	12	6	3	2	32	31	
103,081	4.016	37	24	17	11	6	3	3	32	31	
102,999	4.009	35	24	18	12	7	3	3	32	31	
102,918	4.016	24	17	13	10	6	4	3	29	31	km 102 = 1000m
102,839	4.023	29	21	16	12	7	4	3	29	31	
102,758	4.002	47	32	23	15	9	5	4	29	31	
102,678	4.023	26	19	14	10	6	3	2	29	31	
102,597	4.009	36	26	19	13	7	3	2	29	31	
102,520	4.016	40	28	21	15	8	3	2	29	31	
102,441	3.987	57	38	27	18	9	3	1	29	30	
102,362	3.987	40	21	15	9	5	3	2	29	31	
102,279	4.016	33	21	14	9	4	2	1	29	30	
102,199	4.002	35	20	14	8	4	2	2	29	30	
102,119	4.016	44	28	20	12	6	2	2	29	30	
102,039	4.023	38	26	20	13	7	3	2	29	30	
101,958	3.987	54	29	19	12	5	3	3	29	30	km 101 = 1000m
101,880	3.987	56	31	21	12	7	4	3	29	30	
101,800	4.002	59	39	28	18	8	3	0	29	30	
101,719	3.994	55	31	19	11	6	4	3	29	30	
101,639	4.023	42	28	21	15	8	4	3	29	30	
101,557	4.009	45	33	24	15	9	4	4	29	30	
101,478	4.002	55	31	19	12	6	3	3	29	30	
101,399	4.038	38	23	14	8	3	1	1	29	29	
101,320	4.016	36	20	13	8	4	2	2	29	30	
101,239	4.009	34	22	16	11	6	3	3	29	30	
101,159	4.009	30	20	15	10	6	3	2	27	30	
101,077	4.016	29	20	15	10	6	3	2	27	29	
101,000	4.009	33	24	18	13	8	4	3	27	29	
100,920	4.023	33	21	16	11	7	4	3	27	29	km 100 = 1000m
100,840	4.002	36	23	15	10	6	3	2	27	29	
100,760	3.973	43	24	15	9	5	2	2	27	29	
100,680	3.994	49	31	22	13	6	3	3	27	29	
100,599	4.009	35	20	13	9	5	3	3	27	29	
100,518	4.016	26	18	14	9	5	3	2	27	29	
100,438	4.009	26	15	10	6	3	2	2	27	29	
100,360	3.994	38	23	14	8	4	2	2	27	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
100,280	4.002	42	24	14	9	4	2	2	27	29	
100,200	4.002	52	35	21	13	6	3	4	27	29	
100,120	3.973	41	26	19	14	8	5	3	27	28	
100,040	3.980	45	28	19	12	6	2	2	27	28	
99,959	3.987	37	22	15	9	5	3	2	27	29	km 99 = 1000m
99,878	3.994	36	22	14	9	4	2	1	27	29	
99,799	4.016	33	22	16	10	6	4	3	27	28	
99,718	4.002	42	25	17	11	6	3	3	27	28	
99,637	4.038	36	25	18	12	7	3	2	27	28	
99,560	4.052	26	17	13	8	5	2	2	27	28	
99,479	4.038	37	27	21	15	9	4	3	27	27	
99,399	4.045	27	20	15	11	6	3	2	27	27	
99,317	4.038	27	19	14	9	5	3	2	27	28	
99,220	4.052	33	20	13	8	5	3	2	27	27	
99,140	4.009	36	23	16	10	6	4	3	27	27	
99,080	4.023	45	28	20	13	7	4	3	27	27	
99,000	4.030	23	17	12	9	6	3	3	27	27	
98,919	4.023	28	19	15	10	6	3	2	27	27	
98,838	4.023	34	24	18	13	7	3	2	26	27	km 98 = 992m
98,760	4.009	39	25	17	11	6	3	3	26	27	
98,683	4.030	32	21	15	9	5	2	2	26	27	
98,602	4.059	21	13	9	6	3	2	2	26	27	
98,521	4.030	28	17	12	8	5	3	2	26	27	
98,440	4.030	27	16	11	7	4	2	2	26	27	
98,357	4.030	30	19	14	9	4	2	2	26	27	
98,278	4.059	35	22	15	10	6	3	3	26	27	
98,198	4.030	41	29	22	14	8	4	3	26	27	
98,120	4.038	42	30	21	14	8	3	2	26	27	
98,043	4.059	36	24	17	12	6	3	3	26	27	
97,960	4.196	47	29	23	16	9	5	3	19	21	km 97 = 1013m
97,879	4.218	45	33	25	16	7	2	1	19	22	
97,798	4.232	46	24	17	10	3	0	0	19	22	
97,720	4.232	43	30	22	14	7	2	1	19	22	
97,642	4.167	80	39	29	18	4	2	2	19	22	
97,562	4.182	50	36	27	18	8	4	2	19	22	
97,481	4.189	46	30	22	15	7	3	2	19	22	
97,400	4.167	31	21	15	9	5	3	2	19	23	
97,322	4.189	30	20	15	10	6	3	2	19	23	
97,240	4.189	38	24	17	11	6	3	2	19	23	
97,161	4.189	35	23	16	11	6	3	2	19	22	
97,080	4.146	32	20	14	9	5	3	2	19	22	
97,000	4.182	33	22	15	10	5	2	1	19	23	
96,920	4.153	33	21	15	10	5	3	2	19	23	km 96 = 1000m
96,838	4.182	32	21	15	9	5	3	2	19	23	
96,758	4.146	25	16	11	7	4	2	2	19	23	
96,679	4.146	38	25	19	12	7	4	2	19	23	
96,599	4.175	38	25	18	12	6	3	3	19	23	
96,518	4.146	42	26	19	12	6	3	2	19	23	
96,438	4.189	33	22	17	11	6	4	2	19	23	
96,357	4.153	26	20	16	11	7	3	2	19	23	
96,277	4.203	20	13	9	6	3	2	1	19	23	
96,200	4.189	27	16	11	7	3	2	1	19	23	
96,118	4.211	18	12	9	6	3	2	1	19	23	
96,041	4.196	26	17	12	8	5	3	2	19	23	
95,960	4.189	26	18	14	10	5	2	1	19	23	km 95 = 1000m
95,882	4.167	30	21	16	12	6	3	2	19	23	
95,799	4.196	31	23	15	7	4	2	2	19	23	
95,719	4.182	37	25	18	11	6	3	3	19	23	
95,637	4.175	26	19	15	11	6	3	2	19	23	
95,558	4.182	36	24	17	10	5	3	2	19	24	
95,480	4.189	41	28	21	14	8	5	3	19	24	
95,400	4.182	26	18	13	8	4	2	1	19	23	
95,319	4.160	24	18	14	10	5	3	2	19	23	
95,240	4.196	23	17	13	9	5	3	2	19	23	
95,158	4.225	28	19	13	8	4	2	1	19	23	
95,079	4.211	32	23	18	13	8	5	4	19	23	
95,000	4.189	36	27	22	16	10	6	4	19	23	
94,920	4.203	25	20	16	12	8	5	3	19	24	km 94 = 1011m
94,842	4.211	25	19	15	11	7	4	3	19	23	
94,761	4.218	25	19	15	11	6	4	2	19	23	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:	km 157 ao km 24,820	DATA:	Abril/2007						
PISTA:	Decrescente	FAIXA:	Simplex								
SENTIDO:	MG/DF	ENSAIO:	a cada 80 m								
km	Força (kgf)	Deflexões (0,01 mm)							Temp. Ar (°C)	Temp. Pav. (°C)	OBS
94,680	4.175	35	22	16	11	6	4	3	19	24	
94,599	4.175	28	23	18	14	8	4	3	19	24	
94,518	4.203	39	28	21	14	7	3	2	19	24	
94,438	4.189	29	22	19	14	10	5	4	19	23	
94,360	4.196	24	18	14	10	6	4	2	19	24	
94,280	4.211	27	19	15	11	6	4	2	19	23	
94,200	4.218	22	17	15	11	6	3	1	19	23	
94,120	4.139	53	40	34	18	9	8	4	19	24	
94,042	4.124	53	36	24	12	6	4	2	19	23	
93,963	4.153	36	26	21	13	8	5	3	19	23	km 93 = 1000m
93,883	4.146	43	32	26	18	10	5	3	19	23	
93,802	4.203	35	27	21	16	9	4	2	19	23	
93,720	4.146	49	35	28	20	11	5	3	19	23	
93,640	4.153	61	36	27	18	10	5	3	19	23	
93,560	4.167	58	44	27	19	11	6	4	21	23	
93,479	4.175	40	31	24	18	10	5	3	21	23	
93,399	4.153	27	22	19	15	10	6	3	21	24	
93,318	4.167	32	26	22	18	12	7	4	21	24	
93,237	4.175	29	23	20	15	10	6	3	21	23	
93,160	4.110	56	32	27	21	12	6	4	21	24	
93,079	4.139	53	38	29	21	12	6	3	21	24	
92,999	4.167	29	23	19	15	9	5	3	21	24	
92,920	4.146	31	24	20	15	10	5	3	21	24	km 92 = 1000m
92,839	4.160	25	18	14	10	6	3	1	21	24	
92,758	4.059	59	38	16	13	8	5	3	21	24	
92,680	4.175	26	22	19	15	10	6	3	21	24	
92,590	4.167	23	19	16	13	9	5	3	21	24	
92,519	4.153	34	25	19	13	7	4	2	21	24	
92,439	4.124	36	28	22	16	9	4	2	21	24	
92,358	4.110	31	25	19	15	9	5	3	21	24	
92,278	4.124	30	23	18	13	7	3	2	21	24	
92,197	4.160	31	23	18	12	7	4	3	21	24	
92,120	4.110	49	32	22	9	5	3	3	21	24	
92,040	4.124	51	32	20	12	5	4	3	21	24	
91,957	4.139	63	47	32	18	6	3	2	21	24	km 91 = 1000m
91,879	4.160	32	21	16	11	6	3	2	21	24	
91,798	4.139	35	25	20	14	8	5	3	21	24	
91,717	4.196	28	20	14	10	5	2	1	21	24	
91,628	4.117	49	35	27	12	5	2	1	21	24	
91,563	4.146	57	35	26	16	7	5	4	21	24	
91,481	4.131	42	26	19	12	6	3	3	21	24	
91,401	4.167	38	24	18	11	4	4	3	21	24	
91,321	4.146	42	28	20	13	6	4	3	21	24	
91,240	4.153	36	27	21	15	8	3	2	21	24	
91,160	4.153	32	23	18	12	6	3	2	21	24	
91,080	4.153	35	22	15	9	5	3	2	21	24	
91,000	4.139	30	20	13	9	5	3	2	21	24	
90,919	4.124	28	19	13	8	4	2	2	21	24	km 90 = 1000m
90,838	4.153	32	22	16	10	4	2	2	21	24	
90,758	4.146	44	32	24	16	7	3	3	21	25	
90,678	4.110	40	28	21	15	8	4	3	21	24	
90,600	4.182	28	21	16	11	6	3	2	21	25	
90,520	4.153	27	20	16	11	7	3	2	21	25	
90,438	4.139	29	22	17	13	7	3	2	21	25	
90,358	4.139	39	35	19	12	6	3	2	21	25	
90,277	4.124	36	25	16	9	4	2	1	23	25	
90,198	4.146	22	13	9	6	3	2	1	23	25	
90,120	4.102	27	17	10	4	2	1	1	23	25	
90,039	4.052	66	43	18	10	5	4	2	23	25	
89,960	4.095	46	31	23	14	5	3	1	23	26	km 89 = 1000m
89,879	4.124	42	24	17	11	4	3	2	23	26	
89,799	4.066	63	37	21	15	8	5	3	23	26	
89,718	4.139	34	22	16	9	5	3	2	23	26	
89,638	4.131	34	25	20	14	8	4	3	23	26	
89,557	4.074	54	36	21	11	3	2	1	23	26	
89,480	4.153	30	20	15	10	6	3	2	23	26	
89,399	4.131	36	25	18	12	7	3	2	23	26	
89,319	4.117	44	28	21	15	8	4	3	23	26	
89,238	4.124	46	33	26	18	10	6	4	23	26	
89,157	4.124	52	39	27	15	6	4	2	23	26	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820						DATA: Abril/2007			
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
89,080	4.139	23	19	16	12	8	5	3	23	26	
89,000	4.153	20	15	12	9	5	3	2	23	26	
88,918	4.146	24	18	15	11	7	3	2	23	26	km 88 = 1000m
88,837	4.102	62	39	22	13	5	3	2	23	26	
88,759	4.081	63	57	28	18	8	5	4	23	26	
88,680	4.124	42	31	24	16	7	3	3	23	26	
88,599	4.124	35	26	20	13	7	3	2	23	26	
88,518	4.131	31	28	25	17	9	4	3	23	26	
88,439	4.030	91	79	64	18	8	5	4	23	26	
88,358	4.038	100	77	57	27	10	7	5	23	26	
88,277	4.052	86	61	45	19	11	9	5	23	26	
88,200	4.009	76	61	49	22	8	5	4	23	26	
88,121	4.131	25	19	15	11	7	5	4	23	27	
88,040	4.131	27	21	17	12	8	5	4	23	26	
87,960	3.973	97	61	49	31	12	8	5	23	27	km 87 = 1000m
87,879	4.153	17	12	10	8	6	4	4	23	27	
87,798	4.088	36	31	27	22	15	8	5	23	27	
87,717	4.124	40	37	33	22	12	7	5	23	27	
87,640	3.966	122	89	55	33	17	10	7	23	27	
87,559	3.937	113	81	56	32	16	8	7	23	27	
87,478	4.117	28	21	18	14	8	4	2	23	28	
87,399	4.102	38	30	25	19	12	7	4	23	28	
87,318	4.124	24	20	18	14	11	7	3	23	28	
87,240	3.958	83	66	49	32	15	8	6	23	28	
87,160	4.030	80	62	44	29	14	9	7	23	28	
87,080	4.131	29	22	18	14	9	6	5	23	28	
87,000	3.922	104	86	54	29	13	8	7	23	28	
86,919	3.966	89	67	49	31	11	6	5	23	28	km 86 = 1000m
86,839	4.002	94	76	55	43	17	9	7	23	28	
86,758	4.016	110	86	63	36	16	9	7	23	28	
86,678	4.066	57	39	32	25	17	11	8	23	28	
86,597	4.110	23	19	17	14	10	6	4	23	28	
86,520	4.088	28	23	20	16	11	7	5	23	28	
86,442	3.980	95	64	52	29	12	9	6	23	28	
86,361	4.081	30	24	20	16	11	6	4	23	28	
86,281	4.131	26	21	18	14	9	5	4	23	28	
86,201	4.117	26	18	14	10	6	3	2	23	28	
86,119	4.045	68	44	35	24	12	8	6	23	29	
86,039	4.102	44	32	23	16	6	1	2	23	29	
85,958	4.066	39	30	25	20	13	7	5	23	29	km 85 = 1000m
85,877	4.117	25	19	15	12	8	5	4	23	29	
85,800	4.110	22	15	12	9	6	4	4	23	28	
85,720	4.110	31	31	20	15	10	6	5	23	29	
85,642	3.987	74	47	36	21	10	6	4	27	29	
85,559	4.052	95	59	42	27	14	8	5	27	29	
85,480	4.110	31	24	20	15	10	6	4	27	29	
85,402	4.110	21	16	13	9	6	4	3	27	29	
85,321	4.095	40	37	34	16	11	6	4	27	29	
85,239	4.110	14	11	9	8	5	4	3	27	29	
85,160	4.002	75	63	42	23	10	6	6	27	29	
85,080	4.059	37	31	28	20	12	7	5	27	29	
85,000	4.102	19	16	13	11	7	5	3	27	29	
84,919	4.095	29	21	16	13	8	5	4	27	29	km 84 = 1000m
84,839	4.066	43	33	28	20	12	7	5	27	30	
84,760	4.095	35	28	24	19	12	7	5	27	30	
84,682	4.074	25	19	15	12	8	5	4	27	30	
84,601	4.102	35	27	22	17	11	6	5	27	30	
84,519	4.052	54	49	37	28	14	3	4	27	29	
84,440	4.102	34	23	18	14	8	5	4	27	29	
84,357	4.110	23	17	15	11	8	5	4	27	29	
84,278	4.081	60	43	32	22	11	5	3	27	29	
84,197	4.059	56	36	26	17	9	5	4	27	29	
84,117	4.038	59	44	28	16	9	5	4	27	29	
84,040	4.030	62	44	28	17	9	6	4	27	29	
83,958	4.074	46	35	30	17	11	5	4	27	29	km 83 = 1000m
83,879	3.987	85	61	37	19	10	6	6	27	29	
83,799	4.023	74	51	28	13	6	4	4	27	29	
83,717	3.929	81	54	33	19	8	4	4	27	29	
83,640	3.973	89	57	40	25	12	7	5	27	29	
83,559	3.987	76	51	33	21	12	7	5	27	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:	km 157 ao km 24,820	DATA:	Abril/2007						
PISTA:	Decrescente	FAIXA:	Simplex								
SENTIDO:	MG/DF	ENSAIO:	a cada 80 m								
km	Força (kgf)	Deflexões (0,01 mm)							Temp. Ar (°C)	Temp. Pav. (°C)	OBS
83,478	4.052	65	45	32	20	12	7	6	27	29	
83,398	3.908	91	49	29	18	9	6	5	27	29	
83,320	3.915	80	61	37	21	10	7	4	27	29	
83,238	3.958	90	56	37	22	13	8	6	27	29	
83,160	3.951	86	53	31	17	10	6	5	27	29	
83,080	3.980	89	56	32	22	13	8	6	27	29	
83,000	3.980	75	48	32	20	11	8	7	27	30	
82,920	3.973	80	51	35	16	9	6	4	27	30	km 82 = 1006m
82,840	3.973	71	40	25	14	8	6	5	27	30	
82,760	3.915	61	38	25	16	7	5	4	27	31	
82,680	3.944	58	35	20	13	8	4	4	27	31	
82,600	3.951	71	42	29	16	9	6	5	27	31	
82,520	3.937	72	53	33	19	8	5	4	27	31	
82,440	3.958	58	36	23	14	6	4	3	27	31	
82,360	3.958	68	35	19	13	8	5	4	27	31	
82,280	3.929	71	47	31	21	12	7	5	27	31	
82,200	3.944	47	32	24	17	11	7	5	27	31	
82,117	3.929	67	66	28	19	11	7	5	27	31	
82,040	3.958	28	19	15	12	9	6	4	27	31	
81,960	3.966	44	28	19	12	8	6	4	27	31	km 81 = 1000m
81,879	3.951	57	37	25	14	7	4	4	27	32	
81,798	3.966	63	37	23	13	7	4	4	27	32	
81,719	3.951	70	41	24	14	6	4	4	27	32	
81,640	3.944	30	18	12	7	4	3	3	27	32	
81,561	3.980	51	27	17	10	6	4	3	27	33	
81,480	3.944	48	31	22	15	7	4	4	27	33	
81,399	3.929	90	59	36	17	10	6	5	27	33	
81,319	3.937	84	55	31	18	9	4	3	27	33	
81,238	3.937	80	56	38	21	11	7	5	27	33	
81,159	3.980	35	24	18	13	8	5	4	27	33	
81,077	3.994	61	44	31	21	12	7	5	27	33	
80,999	3.937	71	44	27	16	9	6	4	27	34	km 80 = 1008m
80,918	3.994	38	24	17	11	7	4	3	27	33	
80,837	3.958	71	50	35	22	11	6	5	27	34	
80,757	3.922	67	40	27	19	13	7	6	27	34	
80,680	3.778	38	42	24	9	12	7	5	27	34	
80,599	3.944	56	35	22	15	9	6	5	31	34	
80,519	3.915	62	40	24	15	9	6	4	31	34	
80,438	4.002	29	22	18	13	9	5	4	31	34	
80,358	3.944	62	31	22	13	8	6	5	31	34	
80,267	3.966	38	23	15	10	6	4	3	31	34	
80,202	4.009	32	22	16	10	6	4	3	31	34	
80,121	3.944	50	29	20	12	8	4	4	31	34	
80,041	3.966	28	37	14	11	7	4	4	31	34	
80,039	3.973	31	22	17	13	8	5	3	31	34	
79,960	3.958	30	21	16	12	9	4	4	31	34	km 79 = 1000m
79,879	3.944	56	35	21	14	9	6	5	31	34	
79,797	3.980	42	30	22	16	9	5	3	31	35	
79,718	3.987	42	28	19	13	9	5	4	31	35	
79,637	3.973	47	31	21	13	8	6	4	31	34	
79,560	3.958	37	23	16	11	6	4	3	31	35	
79,479	3.966	50	28	18	12	7	5	3	31	35	
79,400	3.951	36	21	14	9	4	3	2	31	34	
79,321	3.944	23	16	12	9	5	2	2	31	35	
79,239	3.994	38	20	11	5	2	1	1	31	35	
79,158	4.081	20	14	11	8	4	2	1	31	35	
79,077	4.081	17	12	9	6	4	2	1	31	34	
79,000	4.045	16	11	8	5	3	2	1	31	35	
78,919	4.102	14	10	8	6	3	2	1	31	35	km 78 = 1000m
78,838	4.081	23	16	13	9	5	2	2	31	34	
78,760	4.095	14	10	8	6	4	2	2	31	34	
78,680	4.052	27	22	18	14	10	5	3	31	35	
78,600	4.038	28	22	18	14	9	5	3	31	34	
78,520	4.052	21	16	13	10	7	4	2	31	34	
78,440	3.966	18	14	12	10	6	4	3	31	35	
78,360	4.038	24	19	16	13	9	5	3	31	35	
78,280	4.066	22	17	13	9	6	2	1	31	35	
78,200	4.045	23	17	13	10	7	3	2	31	35	
78,120	4.045	26	20	17	13	9	5	4	31	35	
78,040	4.059	24	16	12	9	5	2	1	31	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
77,960	4.002	51	34	25	17	10	5	3	31	35	km 77 = 1000m
77,880	4.059	26	19	15	11	7	4	2	31	35	
77,800	4.066	18	14	11	9	5	3	2	31	36	
77,719	4.066	11	7	6	4	3	2	1	31	35	
77,639	4.088	15	12	10	7	5	3	2	31	36	
77,557	4.066	15	10	8	6	4	2	1	31	36	
77,477	4.074	13	9	7	5	3	1	1	31	36	
77,400	4.059	21	15	12	8	5	3	2	31	36	
77,320	4.066	17	12	9	7	4	2	1	31	36	
77,239	4.102	15	11	9	7	4	2	2	31	36	
77,159	4.074	19	14	11	8	5	2	2	31	36	
77,079	4.052	24	16	13	9	5	2	2	31	36	
77,000	4.059	21	14	10	7	4	2	2	31	36	
76,917	4.052	14	10	7	5	3	2	1	31	36	km 76 = 1000m
76,839	4.038	53	34	24	16	9	4	3	31	36	
76,758	4.059	27	16	12	8	4	2	2	31	36	
76,677	4.045	23	15	12	9	5	2	2	31	36	
76,597	4.074	30	19	14	10	5	3	2	31	35	
76,517	4.081	26	17	13	9	5	3	2	31	35	
76,440	4.038	45	29	21	13	6	3	2	31	35	
76,360	4.074	13	10	10	9	7	5	5	31	35	
76,280	4.059	20	13	10	7	4	2	2	31	35	
76,198	4.074	16	11	9	6	4	2	2	31	35	
76,119	4.030	37	24	17	12	6	3	2	31	35	
76,037	4.059	26	18	15	11	7	4	3	31	35	
75,960	4.016	45	33	26	19	11	5	3	31	35	km 75 = 1000m
75,881	4.016	50	35	27	19	11	6	4	31	35	
75,801	4.045	61	43	33	23	12	6	4	31	35	
75,721	3.980	68	46	36	26	16	9	6	31	35	
75,639	3.980	75	51	39	26	14	7	5	31	35	
75,560	4.009	57	43	35	25	16	9	6	31	35	
75,478	3.973	69	52	41	30	19	11	8	31	34	
75,400	3.994	47	37	30	24	15	9	7	31	34	
75,318	3.958	72	53	43	33	22	14	10	31	34	
75,240	4.038	41	28	20	13	7	4	3	31	34	
75,157	4.059	31	22	17	12	7	4	3	31	34	
75,078	4.038	59	38	27	18	10	6	4	31	34	
75,000	4.030	46	36	28	21	13	7	5	31	34	
74,919	3.980	57	39	30	21	12	7	5	31	34	km 74 = 1000m
74,838	3.944	88	67	55	41	28	17	12	31	34	
74,758	3.937	90	66	52	39	25	15	11	31	34	
74,680	3.958	67	48	37	27	18	12	10	31	33	
74,600	3.893	142	95	67	42	22	11	7	31	34	
74,519	4.023	53	39	30	21	11	6	4	31	34	
74,437	4.030	38	26	20	14	9	5	4	31	34	
74,360	4.023	45	32	25	18	12	7	5	31	34	
74,280	3.994	39	29	24	17	11	6	5	31	34	
74,198	4.045	23	15	12	9	6	4	3	31	34	
74,117	4.052	24	16	12	8	5	3	3	31	34	
74,037	4.002	63	45	34	24	13	7	5	31	34	
73,960	4.038	26	19	14	11	7	4	4	31	34	km 73 = 1000m
73,877	4.023	49	35	28	19	11	6	4	31	34	
73,800	4.038	36	25	19	13	8	5	4	31	34	
73,719	4.030	41	31	25	18	11	6	4	31	34	
73,640	4.002	59	41	30	21	12	7	5	31	34	
73,559	4.030	39	28	21	14	8	5	4	31	34	
73,479	3.980	38	26	20	14	8	5	4	31	34	
73,398	4.030	37	26	20	15	9	6	4	31	34	
73,320	4.023	43	31	24	17	10	6	5	31	34	
73,237	4.023	39	30	24	17	11	7	5	31	34	
73,159	3.994	66	44	32	22	13	7	6	31	34	
73,077	4.023	42	28	21	15	9	6	5	31	34	
73,000	4.023	50	36	28	20	12	7	5	31	34	
72,920	4.038	44	32	24	17	11	7	6	31	32	km 72 = 1000m
72,840	4.095	35	25	20	15	10	6	5	31	32	
72,760	4.074	43	31	23	16	10	6	5	31	32	
72,681	4.045	47	32	23	16	9	6	5	31	32	
72,600	4.066	51	33	24	16	8	5	4	31	33	
72,519	4.009	72	48	34	21	11	5	4	31	33	
72,425	4.059	40	27	20	13	7	4	4	31	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:		km 157 ao km 24,820				DATA: Abril/2007			
PISTA:	Decrescente	FAIXA:		Simples							
SENTIDO:	MG/DF	ENSAIO:		a cada 80 m							
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
72,357	4.066	38	26	18	11	6	4	3	31	33	
72,278	4.059	48	31	22	14	8	4	3	31	33	
72,200	4.052	41	27	19	11	5	3	2	31	33	
72,121	3.994	33	22	16	11	6	4	3	31	33	
72,039	4.002	66	49	39	29	18	10	7	31	33	
71,959	4.045	46	29	21	14	9	6	5	31	33	km 71 = 1008m
71,878	4.030	53	37	29	21	13	7	6	31	33	
71,797	4.023	36	25	19	14	9	5	5	31	33	
71,717	4.023	52	35	26	17	10	6	5	31	33	
71,640	4.023	62	41	30	20	12	7	6	31	33	
71,558	4.030	51	34	25	17	10	6	6	31	33	
71,480	4.030	49	33	24	17	10	6	5	31	33	
71,397	4.074	27	20	16	12	8	4	3	31	33	
71,320	4.023	35	24	19	14	8	5	4	31	33	
71,240	4.009	58	38	29	20	12	7	6	31	34	
71,160	4.030	47	30	21	14	8	5	5	31	34	
71,080	4.038	32	21	15	11	7	5	5	31	34	
71,000	4.016	50	38	29	20	11	6	6	31	34	
70,920	4.016	33	22	17	12	7	4	4	31	34	km 70 = 1000m
70,840	4.009	63	45	35	25	14	8	6	31	34	
70,758	3.987	60	41	31	22	14	8	7	31	35	
70,680	3.966	63	42	31	21	12	7	5	31	35	
70,600	4.009	62	43	31	20	11	6	5	31	34	
70,520	3.994	50	38	32	25	17	10	8	31	34	
70,440	3.980	67	48	37	28	19	11	8	31	35	
70,360	3.973	74	54	42	31	18	10	6	31	35	
70,280	3.951	94	71	58	44	29	16	11	31	35	
70,200	4.009	56	44	37	29	20	12	9	31	35	
70,119	4.016	61	46	37	29	19	11	8	31	34	
70,038	3.994	70	52	40	28	17	10	7	31	35	
69,960	4.002	61	43	33	23	15	8	6	31	34	km 69 = 1000m
69,879	3.994	63	44	35	26	17	10	7	31	34	
69,799	4.016	34	22	17	11	6	4	2	31	34	
69,719	4.009	37	27	21	16	10	6	5	31	34	
69,640	4.023	51	35	25	16	10	6	5	31	35	
69,562	4.016	52	37	31	24	16	10	8	31	34	
69,479	4.038	39	28	22	16	10	6	5	31	34	
69,399	4.016	40	29	23	17	11	6	4	31	35	
69,319	3.994	55	39	30	22	13	7	5	31	34	
69,238	3.973	48	37	28	19	13	8	6	31	34	
69,159	4.002	45	33	26	18	12	7	7	31	34	
69,080	4.002	51	38	30	22	15	9	8	31	34	
69,000	3.994	59	45	35	25	16	9	6	31	34	
68,919	3.944	79	61	49	37	24	13	8	31	35	km 68 = 1000m
68,838	3.994	67	46	33	23	14	7	5	31	34	
68,759	3.994	49	39	33	25	17	10	7	31	34	
68,680	4.002	50	36	29	22	15	8	6	31	34	
68,600	4.045	41	29	23	16	9	5	3	31	35	
68,523	4.038	37	28	23	17	11	6	4	31	34	
68,442	4.038	41	30	22	15	9	5	4	32	35	
68,362	4.002	48	31	25	18	12	6	4	32	34	início de ponte km 68,275
68,121	3.915	94	65	50	35	21	11	8	32	35	fim de ponte km 68,195
68,040	3.901	98	67	49	33	19	10	7	32	34	
67,960	3.915	107	70	50	31	15	7	3	32	34	km 67 = 1032 m
67,879	3.987	70	38	26	16	8	3	2	32	34	
67,797	3.944	45	36	32	26	19	11	7	32	34	
67,718	4.016	34	27	23	19	13	8	5	32	34	
67,637	3.951	95	61	43	27	16	9	8	32	34	
67,560	3.915	110	74	53	36	22	13	9	32	34	
67,480	3.879	106	71	53	38	25	14	11	32	34	
67,400	3.951	72	49	34	21	11	5	3	32	35	
67,320	4.002	39	28	22	18	12	7	4	32	34	
67,239	4.023	27	20	17	14	10	6	4	32	34	
67,159	3.966	81	55	39	27	16	9	7	32	35	
67,079	3.951	94	65	49	33	20	11	8	32	34	
67,000	3.987	70	45	30	18	11	7	6	32	34	
66,920	3.893	90	61	46	33	21	12	9	32	34	km 66 = 1034 m
66,838	3.951	71	46	34	24	15	8	6	32	34	
66,757	3.966	50	35	24	16	9	5	4	32	34	
66,681	3.966	68	40	28	17	9	4	3	32	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:		km 157 ao km 24,820		DATA:		Abril/2007			
PISTA:	Decrescente	FAIXA:		Simples							
SENTIDO:	MG/DF	ENSAIO:		a cada 80 m							
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
66,598	3.937	96	63	44	29	16	8	6	32	34	
66,518	3.944	79	55	41	29	18	10	7	32	34	
66,437	3.922	89	58	43	29	17	10	7	32	34	
66,357	3.980	55	33	25	18	13	8	6	32	34	
66,280	3.937	72	51	38	27	17	11	9	32	34	
66,200	3.915	101	68	49	33	19	10	7	32	34	
66,117	4.002	39	25	19	13	8	5	4	32	34	
66,039	3.973	49	32	24	16	10	6	5	32	34	
65,960	3.994	46	28	21	15	10	6	5	32	34	km 65 = 1000m
65,879	4.009	43	24	16	11	6	3	3	32	34	
65,799	4.030	36	25	20	15	10	6	5	32	34	
65,718	4.023	34	22	17	13	8	5	4	32	34	
65,637	3.994	52	35	27	19	12	7	6	32	34	
65,558	4.030	41	28	22	17	12	6	4	32	33	
65,480	3.966	38	28	24	18	12	7	4	32	33	
65,401	4.002	36	25	20	14	8	4	3	32	34	
65,317	4.009	29	18	15	11	8	5	4	32	34	
65,241	3.980	48	31	23	16	10	6	5	32	34	
65,157	3.951	60	40	33	27	19	12	9	32	34	
65,080	3.958	41	30	26	21	16	10	7	32	34	
65,000	3.929	64	37	28	21	14	8	6	32	33	
64,920	3.937	51	31	23	17	12	7	6	32	34	km 64 = 1010m
64,838	3.980	31	20	15	12	9	6	5	32	34	
64,760	3.951	65	37	28	21	15	10	8	32	34	
64,679	3.958	70	42	29	19	12	7	6	32	34	
64,599	3.922	102	63	40	24	14	8	6	32	34	
64,518	3.929	105	62	43	28	16	9	7	32	34	
64,437	3.908	104	59	41	26	15	9	7	32	33	
64,360	3.973	70	39	27	19	14	9	7	32	33	
64,279	3.980	61	41	28	19	13	7	6	32	33	
64,197	4.009	60	35	23	16	10	6	5	32	33	
64,117	3.966	79	54	38	27	17	9	7	32	33	
64,037	3.922	77	49	36	26	17	9	7	32	33	
63,960	3.944	82	55	39	27	17	10	7	32	33	km 63 = 1000m
63,880	3.944	79	54	40	28	18	11	7	32	32	
63,799	4.002	64	42	31	21	13	7	5	32	32	
63,717	3.944	79	53	40	28	17	9	6	32	32	
63,640	3.937	90	61	47	33	20	11	7	32	32	
63,558	3.980	87	53	35	22	13	7	5	32	32	
63,479	3.944	91	60	43	29	17	9	6	32	32	
63,399	4.009	47	31	24	16	10	5	4	32	32	
63,317	3.966	58	42	33	24	15	8	6	32	32	
63,240	4.002	43	31	25	18	11	7	5	32	32	
63,158	3.944	63	44	33	22	12	7	5	32	32	
63,076	3.980	73	50	36	22	12	7	6	29	32	
63,000	3.958	79	54	38	24	13	7	6	29	32	
62,920	3.987	67	45	32	20	11	7	6	29	32	km 62 = 1000m
62,840	3.987	52	30	21	15	9	5	5	29	32	
62,759	3.994	34	23	17	12	7	4	3	29	32	
62,679	3.973	76	51	37	25	13	7	5	29	33	
62,599	4.009	55	33	21	13	7	4	4	29	32	
62,518	4.016	27	20	16	12	8	5	4	29	32	
62,438	4.023	37	24	18	13	9	6	4	29	33	
62,359	3.958	62	37	25	17	10	6	5	29	33	
62,278	3.973	51	31	21	14	9	5	5	29	32	
62,200	4.009	21	11	11	10	8	5	4	29	33	
62,118	3.994	40	28	25	21	15	9	7	29	33	
62,040	3.973	55	39	31	24	17	10	8	29	33	
61,961	4.002	40	30	27	22	15	9	6	29	33	km 61 = 1000m
61,880	4.009	37	26	23	19	14	8	6	29	33	
61,800	3.994	60	41	32	22	14	8	6	29	33	
61,719	4.002	56	38	32	24	15	9	7	29	33	
61,638	4.038	31	25	21	17	11	7	5	29	33	início de ponte km 61,590
61,397	3.980	36	27	23	18	12	7	5	29	33	fim de ponte km 61,390
61,320	3.901	86	61	47	37	24	13	9	29	33	
61,240	3.951	42	35	31	25	18	11	9	29	33	
61,160	3.929	78	61	53	42	29	16	10	29	33	
61,077	3.958	69	48	38	29	19	11	7	29	33	
61,000	3.951	75	53	42	31	19	9	6	29	33	
60,918	3.994	49	40	35	28	20	12	8	29	33	km 60 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
60,840	3.865	131	96	71	49	27	13	8	29	33	
60,763	4.009	40	26	18	11	5	3	3	29	33	
60,682	3.951	59	44	33	23	15	8	5	31	33	
60,599	3.987	38	28	23	16	10	6	5	31	34	
60,520	3.994	33	24	18	13	8	5	4	31	34	
60,440	3.966	44	32	27	21	14	8	6	31	33	
60,361	3.987	31	22	18	14	10	6	5	31	34	
60,280	3.929	90	56	39	25	13	6	4	31	34	
60,200	3.778	165	115	85	55	27	13	8	31	34	
60,119	3.944	85	59	43	28	15	7	4	31	33	
60,039	3.966	70	42	29	18	10	6	5	31	33	
59,962	3.980	35	34	30	24	16	9	6	31	33	km 59 = 1000m
59,880	3.987	35	29	26	21	15	9	6	31	33	
59,799	3.951	43	36	32	26	18	11	8	31	34	
59,720	3.966	25	23	23	20	16	10	8	31	34	
59,643	3.893	94	62	49	35	20	10	7	31	34	
59,562	3.944	62	50	42	33	23	13	9	31	34	
59,480	3.966	73	51	36	23	15	9	7	31	33	
59,400	3.958	70	55	45	35	23	13	9	31	33	
59,317	3.958	69	49	40	31	21	13	9	31	33	
59,240	3.958	52	42	37	31	23	14	10	31	33	
59,158	3.922	86	60	47	34	22	13	9	31	33	
59,079	3.951	53	48	41	32	21	12	8	31	33	
59,000	3.908	105	68	50	35	21	11	7	31	33	
58,920	3.929	74	51	40	29	15	8	6	31	34	km 58 = 1000m
58,838	3.994	66	44	32	21	11	6	4	31	34	
58,759	3.958	84	59	40	26	15	8	6	31	34	
58,678	3.966	70	54	43	31	18	9	6	31	33	
58,600	3.893	101	72	54	37	20	9	6	31	33	
58,518	3.807	158	108	78	50	26	12	7	31	34	
58,440	3.951	86	58	43	30	18	10	7	31	34	
58,358	3.980	61	47	39	31	20	11	8	31	33	
58,278	3.850	127	93	71	50	28	14	8	31	33	
58,200	3.973	68	43	31	22	14	8	6	31	33	
58,122	3.987	66	44	32	20	12	7	6	31	33	
58,040	4.016	65	44	30	20	11	6	4	31	33	
57,958	3.800	160	112	86	62	36	17	9	31	33	km 57 = 1000m
57,880	3.951	77	59	51	41	28	17	12	31	33	
57,798	3.958	66	48	41	33	22	12	7	31	32	
57,720	3.872	106	75	58	43	29	16	11	31	32	
57,643	3.944	65	44	35	26	16	9	6	31	32	
57,562	3.922	78	48	34	23	12	6	5	31	33	
57,482	3.966	69	45	32	21	12	6	4	31	32	
57,402	3.973	55	34	23	15	10	6	5	31	32	
57,321	3.994	64	38	25	16	10	6	5	31	32	
57,238	4.016	50	33	25	17	10	5	4	31	32	
57,160	4.009	70	44	31	19	11	6	4	31	32	
57,078	4.023	61	32	20	12	8	5	5	31	31	
57,000	3.987	96	63	44	26	12	6	5	31	31	
56,919	4.038	103	71	50	34	19	10	6	29	30	km 56 = 1000 m
56,839	4.066	72	44	33	24	15	9	6	29	30	
56,757	4.139	26	20	17	13	9	6	4	29	30	
56,680	4.088	42	27	22	17	11	7	5	29	30	
56,599	4.059	70	46	35	24	13	7	5	29	30	
56,520	4.102	33	22	17	13	8	5	4	29	30	
56,440	4.095	43	29	23	17	11	6	4	29	30	
56,358	4.110	41	34	30	23	10	4	4	29	30	
56,278	4.016	103	67	47	27	13	8	6	29	30	
56,197	4.081	59	37	26	16	10	6	4	29	30	
56,120	4.095	46	30	21	14	7	4	4	29	30	
56,039	4.081	69	42	32	18	10	7	6	29	30	
55,959	4.088	55	37	28	20	11	6	5	29	30	km 55 = 1000 m
55,878	4.124	46	33	26	17	10	6	5	29	30	
55,797	4.102	50	34	25	17	10	6	4	29	30	
55,717	4.117	34	25	21	17	11	7	5	29	30	
55,640	4.074	43	32	24	17	10	5	4	29	30	
55,558	4.074	38	29	24	18	11	7	6	29	30	
55,477	4.081	46	36	28	20	12	8	7	29	30	
55,399	4.038	58	39	31	22	14	8	7	29	30	
55,320	4.066	41	30	24	17	11	7	7	29	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA:	Decrescente	FAIXA: Simples									
SENTIDO:	MG/DF	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
55,238	4.081	39	29	23	16	9	6	5	29	30	
55,159	4.059	54	35	26	18	11	6	5	29	30	
55,078	4.066	50	38	30	22	13	8	6	29	30	
55,000	4.059	62	40	30	20	12	8	7	29	30	
54,918	4.030	60	44	33	23	13	8	7	29	30	kim 54 = 1000 m
54,840	4.023	65	45	35	25	14	8	7	29	30	
54,759	4.074	46	35	23	16	11	8	7	29	30	
54,679	4.059	50	37	31	23	14	7	6	29	30	
54,599	4.059	45	34	28	21	13	8	6	29	30	
54,517	4.038	49	39	32	24	14	9	7	29	30	
54,437	4.038	54	40	31	23	16	9	7	29	30	
54,358	4.038	49	35	27	20	12	7	6	29	30	
54,278	4.088	35	25	18	13	8	5	5	29	30	
54,198	4.030	59	38	28	19	11	7	7	29	30	
54,117	4.045	39	29	23	15	10	6	5	29	30	
54,038	4.038	32	21	15	10	6	4	3	29	30	
53,960	4.045	34	21	16	11	7	4	3	29	31	kim 53 = 1000 m
53,880	4.016	50	40	34	29	21	14	10	29	30	
53,800	4.066	23	17	14	11	8	6	5	29	31	
53,719	4.045	67	45	34	27	19	13	9	29	31	
53,639	4.045	72	48	37	26	17	11	9	29	31	
53,560	4.016	65	50	43	31	22	13	9	29	31	
53,482	4.009	66	51	44	36	26	17	11	29	31	
53,400	4.016	56	45	39	32	24	15	10	29	31	
53,320	3.987	74	52	41	31	20	11	6	29	32	
53,239	3.994	76	57	44	33	21	12	8	29	32	
53,158	3.966	69	52	42	31	20	11	7	29	32	
53,080	4.016	34	27	23	18	13	8	5	29	31	
53,000	4.023	51	39	31	24	15	8	5	29	32	
52,919	4.009	67	43	33	22	12	6	3	29	32	kim 52 = 1000 m
52,839	4.045	31	25	22	18	14	9	7	29	32	
52,758	3.980	65	49	42	33	23	14	9	29	32	
52,680	3.973	68	54	48	40	30	18	13	29	32	
52,599	4.016	46	30	22	16	10	6	4	29	32	
52,519	4.052	47	26	17	10	5	2	2	29	32	
52,440	4.081	46	28	18	11	6	4	3	29	32	
52,360	4.045	56	36	26	17	10	5	3	29	32	
52,278	4.074	57	38	26	16	7	3	2	29	32	
52,198	4.038	71	44	30	19	10	5	3	29	31	
52,118	4.088	28	18	13	9	5	2	2	29	32	
52,037	4.095	31	20	15	9	5	2	2	29	31	
51,957	4.102	35	25	19	13	7	4	3	29	31	kim 51 = 1000 m
51,877	4.074	46	33	25	17	9	5	4	29	32	
51,800	4.066	44	34	29	13	9	5	4	29	31	
51,719	4.059	33	24	19	14	9	6	5	29	31	
51,639	4.059	37	27	22	16	11	6	5	29	31	
51,558	4.066	53	37	27	17	10	6	5	29	32	
51,479	4.023	73	52	40	26	13	7	5	29	31	
51,400	4.074	58	41	31	20	9	5	5	29	32	
51,321	4.030	68	45	33	22	11	5	4	29	32	
51,238	4.045	50	33	25	17	10	6	4	29	32	
51,158	4.059	45	30	22	15	8	4	3	29	32	
51,078	4.074	38	26	20	14	8	4	4	29	32	
51,000	4.038	49	32	25	17	10	6	4	29	32	
50,918	4.059	31	20	16	12	9	6	4	29	32	kim 50 = 1000 m
50,840	4.052	42	28	21	15	8	4	2	29	32	
50,761	4.088	35	27	21	15	8	4	3	29	32	
50,680	4.074	45	28	20	13	7	4	3	29	32	
50,598	4.066	39	24	16	10	5	2	1	29	32	
50,520	4.088	19	12	10	7	4	2	1	29	33	
50,440	4.074	20	14	11	7	4	2	1	29	32	
50,358	4.081	38	20	13	7	3	2	1	29	32	
50,279	4.074	18	12	10	7	4	2	1	29	32	
50,198	4.074	23	15	12	9	5	3	1	29	32	
50,117	4.081	18	13	10	8	5	2	1	29	32	
50,038	4.066	19	14	11	8	5	2	2	29	32	
49,957	4.081	24	17	13	10	6	3	2	29	32	kim 49 = 1000 m
49,880	4.030	68	44	30	18	9	4	2	29	32	
49,800	4.002	70	48	35	24	13	7	4	29	32	
49,717	3.973	71	51	40	29	18	11	8	29	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:		km 157 ao km 24,820						DATA: Abril/2007	
PISTA:	Decrescente	FAIXA:		Simples							
SENTIDO:	MG/DF	ENSAIO:		a cada 80 m							
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
49,638	4.038	33	23	18	14	9	6	4	29	32	
49,557	4.059	26	18	14	11	7	4	3	29	32	
49,477	4.052	35	25	19	13	8	4	3	29	32	
49,400	3.966	67	56	50	43	32	21	16	29	32	
49,318	4.016	38	29	24	19	13	9	7	29	33	
49,238	4.030	35	28	24	20	14	10	7	29	33	
49,157	4.016	41	29	25	19	14	8	6	29	33	
49,080	3.973	71	52	41	30	18	10	6	29	33	
49,000	3.966	61	43	34	24	15	9	6	29	33	
48,920	3.915	94	72	58	43	27	15	11	29	33	kim 48 = 1000 m
48,837	3.879	104	82	70	58	41	25	17	29	33	
48,760	4.045	30	22	19	16	12	9	7	29	33	
48,678	4.038	46	31	23	15	9	5	3	29	33	
48,597	4.038	24	19	16	13	9	6	4	31	33	
48,519	3.987	46	32	27	22	16	11	8	31	33	
48,437	4.023	28	23	20	17	12	7	5	31	33	
48,358	3.980	58	44	34	25	15	7	4	31	33	
48,280	3.966	80	65	53	38	23	12	8	31	34	
48,201	4.038	39	26	21	15	9	4	3	31	33	
48,120	3.980	61	45	38	31	22	14	10	31	33	
48,039	4.023	39	27	22	17	11	6	4	31	34	
47,959	4.081	21	15	11	8	5	3	2	31	34	kim 47 = 1000 m
47,879	4.009	49	33	26	19	12	7	5	31	34	
47,800	3.966	68	51	43	33	22	12	8	31	34	
47,718	3.980	75	55	44	31	18	9	5	31	34	
47,637	4.045	30	22	17	12	8	5	4	31	34	
47,560	4.016	53	37	32	24	15	10	7	31	34	
47,480	4.052	20	13	10	6	4	2	2	31	34	
47,399	3.994	85	58	40	26	13	6	4	31	34	
47,318	4.052	52	29	19	12	6	4	3	31	34	
47,239	4.045	38	19	12	7	4	3	2	31	35	
47,158	4.030	32	23	19	15	11	7	6	31	35	
47,078	4.045	33	18	13	9	6	4	3	31	34	
47,000	4.038	40	25	17	11	8	5	5	31	35	
46,919	4.059	20	12	9	7	5	4	4	31	34	kim 46 = 1000 m
46,839	3.966	85	59	44	31	19	11	7	31	34	
46,757	3.994	79	49	33	21	11	6	4	31	35	
46,677	4.038	41	25	17	11	5	2	2	31	34	
46,600	3.987	68	42	30	21	12	6	4	31	35	
46,520	4.052	30	15	9	7	5	3	3	31	35	
46,441	4.066	19	15	13	10	7	4	3	31	34	
46,358	4.066	8	7	7	6	5	4	4	31	34	
46,269	4.023	21	15	13	10	8	5	4	31	34	
46,199	4.016	25	19	15	12	8	5	3	31	34	
46,121	4.023	27	21	18	14	9	5	3	31	35	
46,041	4.009	40	25	16	10	6	4	3	31	34	
45,960	4.030	36	23	17	12	9	6	5	31	34	kim 45 = 1000 m
45,879	4.038	27	17	13	10	6	4	3	31	34	
45,799	4.045	46	26	16	9	5	3	2	31	34	
45,719	4.016	67	46	31	19	11	7	6	31	34	
45,637	3.893	107	82	66	49	30	16	11	31	34	
45,557	3.966	76	54	42	31	19	12	8	31	34	
45,480	3.908	99	85	64	48	31	16	11	31	34	
45,399	4.002	50	39	32	25	17	11	8	31	34	
45,319	3.850	153	109	84	60	33	17	11	31	34	
45,238	4.002	83	53	35	22	11	5	3	31	34	
45,160	4.066	15	12	12	11	9	7	5	31	34	
45,080	4.052	15	11	11	9	7	5	4	31	34	
45,000	4.016	28	22	20	17	13	9	7	31	34	
44,919	3.980	58	45	39	30	20	11	7	31	34	kim 44 = 1000 m
44,838	4.023	42	29	23	17	11	6	5	32	35	
44,758	4.045	24	17	13	9	5	3	3	32	35	
44,677	3.980	48	37	32	25	18	11	8	32	34	
44,600	4.074	12	9	8	7	5	4	3	32	35	
44,520	4.059	15	11	9	7	5	4	4	32	35	
44,439	4.059	19	15	12	10	7	5	4	32	35	
44,358	4.052	20	16	14	11	8	5	4	32	35	
44,280	4.009	42	33	29	25	18	11	7	32	35	
44,198	4.002	41	35	32	27	21	14	11	32	35	
44,118	4.038	29	22	19	16	11	7	5	32	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
44,037	4.002	52	41	36	29	21	13	9	32	36	
43,960	3.987	60	46	39	30	19	11	8	32	35	kim 43 = 1000 m
43,880	4.016	33	26	22	18	13	8	6	32	36	
43,799	3.980	48	35	29	22	14	8	5	32	36	
43,719	4.002	29	25	23	19	15	9	7	32	36	
43,637	3.929	95	65	48	31	17	9	6	32	35	
43,557	3.958	67	53	44	33	20	11	7	32	36	
43,480	3.994	38	27	23	19	14	8	5	32	36	
43,398	3.958	51	34	27	22	15	8	6	32	36	
43,318	4.002	49	34	28	22	14	8	5	32	35	
43,238	3.980	44	36	31	26	19	12	9	32	36	
43,157	3.944	58	43	31	21	13	7	4	32	35	
43,078	3.937	67	44	28	22	14	8	6	32	35	
43,000	4.009	21	14	11	8	5	2	1	32	36	
42,920	3.980	34	27	24	20	16	10	7	33	34	kim 42 = 1000 m
42,838	4.009	29	21	18	15	10	6	4	33	34	
42,758	4.038	29	17	14	11	8	5	4	33	34	
42,679	4.023	36	28	24	20	13	8	6	33	34	
42,599	3.958	80	55	43	33	22	13	10	33	34	
42,520	3.908	96	58	44	32	20	11	8	33	34	
42,438	3.872	107	76	59	43	27	14	9	33	33	
42,360	3.994	54	29	21	16	12	8	7	33	33	
42,278	3.937	70	46	36	29	21	13	9	33	34	
42,201	3.915	94	69	55	42	29	17	12	33	33	
42,120	3.901	91	64	51	39	25	13	8	33	33	
42,036	3.886	98	67	52	40	27	14	9	33	33	
41,960	3.973	61	39	31	26	20	13	10	33	33	kim 41 = 1000 m
41,879	3.958	56	39	33	27	21	14	12	33	33	
41,800	3.980	54	34	29	23	18	12	11	33	33	
41,719	3.980	51	37	30	24	17	11	8	33	33	
41,639	3.966	63	46	39	32	24	16	12	33	33	
41,560	3.987	52	33	25	18	12	7	5	33	33	
41,479	3.958	49	34	27	21	16	10	7	33	33	
41,399	3.966	56	36	27	19	13	9	7	33	34	
41,319	3.915	78	46	34	25	16	9	7	33	34	
41,239	3.987	40	28	23	18	14	9	8	33	34	
41,160	3.994	40	25	19	15	11	8	7	31	34	
41,080	4.016	21	12	9	7	5	3	3	31	33	
40,999	4.009	29	14	8	5	2	1	1	31	34	
40,920	4.030	38	20	13	8	4	2	1	31	34	kim 40 = 1000 m
40,840	4.023	39	27	19	13	6	3	2	31	34	
40,759	4.016	43	32	25	18	11	6	4	31	34	
40,677	3.987	51	33	25	18	11	6	4	31	34	
40,599	3.966	68	43	31	22	12	7	6	31	34	
40,517	3.994	55	35	27	19	11	6	5	31	34	
40,438	3.994	58	38	28	19	11	7	5	31	34	
40,360	3.966	67	42	32	22	13	8	6	31	34	
40,280	4.009	47	35	29	22	15	9	6	31	34	
40,199	4.009	52	34	26	19	13	8	6	31	34	
40,119	4.009	42	32	27	21	14	7	6	31	34	
40,036	3.994	46	33	25	18	11	6	5	31	34	
39,958	4.030	49	35	26	18	11	6	6	31	34	kim 39 = 1000 m
39,880	4.030	31	22	18	15	10	6	5	31	34	
39,800	4.038	23	14	10	7	4	2	1	31	34	
39,720	4.038	16	9	7	6	4	2	2	31	34	
39,640	4.009	23	13	11	8	6	4	3	31	34	
39,558	4.023	21	16	14	11	8	5	4	31	34	
39,478	3.987	37	26	22	17	11	7	6	31	34	
39,397	4.009	36	28	22	16	10	6	5	31	34	
39,320	3.973	53	34	26	18	11	6	6	31	34	
39,240	3.973	55	40	31	23	14	8	6	31	34	
39,159	3.958	62	41	32	23	14	8	6	32	34	
39,078	3.958	71	46	35	26	16	10	9	32	34	
39,000	3.973	58	39	31	23	14	8	7	32	34	
38,920	4.009	46	30	22	16	11	7	5	32	34	kim 38 = 1000 m
38,839	3.958	64	43	33	24	14	8	6	32	34	
38,760	3.980	57	37	29	20	13	7	6	32	34	
38,683	3.980	54	37	28	19	12	7	6	32	34	
38,600	3.973	44	29	23	17	12	7	5	32	34	
38,519	4.002	57	36	27	20	12	6	5	32	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA:	Decrescente	FAIXA: Simples									
SENTIDO:	MG/DF	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
38,440	3.973	66	41	30	21	13	7	6	32	34	
38,362	4.002	53	39	32	25	16	9	7	32	34	
38,282	3.980	61	39	30	21	13	7	6	32	33	
38,201	3.966	65	38	28	19	12	7	6	32	34	
38,119	3.987	43	32	26	20	13	7	6	32	33	
38,040	3.958	59	42	33	25	16	10	8	32	33	
37,959	3.994	56	42	34	25	16	9	7	32	33	kim 37 = 1000 m
37,878	3.987	52	37	29	22	14	8	6	32	33	
37,799	3.980	59	43	36	27	18	11	9	32	33	
37,720	3.994	52	36	28	19	12	7	6	32	33	
37,643	3.980	59	40	30	22	12	6	5	32	33	
37,560	3.958	75	47	35	25	14	7	6	32	33	
37,481	3.973	71	44	31	21	11	6	5	32	33	
37,401	3.973	47	34	28	21	13	7	5	32	33	
37,320	3.966	58	40	32	25	16	9	7	32	33	
37,238	3.994	37	27	22	17	12	7	6	32	34	
37,158	3.966	59	38	29	22	15	9	7	32	33	
37,079	3.980	38	26	21	17	11	6	5	32	34	
37,000	4.009	40	30	25	20	13	7	5	32	33	
36,919	3.980	38	23	19	15	10	6	5	32	34	kim 36 = 1000 m
36,839	3.994	33	24	20	15	9	5	3	32	34	
36,757	3.987	35	24	19	14	9	5	5	32	34	
36,678	3.994	34	25	20	15	10	6	4	32	34	
36,598	3.973	37	27	22	17	10	5	4	32	34	
36,520	3.966	60	40	31	22	13	6	5	32	34	
36,441	3.980	35	25	20	15	10	6	5	32	34	
36,360	3.973	44	29	22	15	8	4	3	32	34	
36,278	3.973	48	33	26	19	12	6	4	32	34	
36,198	3.994	40	29	24	18	12	6	5	32	34	
36,119	3.987	36	27	23	18	12	7	5	32	34	
36,040	3.994	31	24	21	16	11	7	5	32	34	
35,960	3.973	41	28	23	17	11	6	4	32	34	kim 35 = 1000 m
35,881	3.951	52	33	25	19	14	8	6	32	34	
35,798	3.973	53	36	26	18	11	7	5	32	34	
35,719	3.966	63	41	31	22	12	6	4	32	34	
35,639	3.973	63	39	28	20	11	6	4	32	34	
35,560	3.966	59	36	26	18	11	7	5	32	34	
35,481	3.973	67	44	33	22	12	7	5	32	34	
35,399	3.973	38	26	21	16	10	5	3	32	33	
35,318	3.980	68	41	28	18	10	6	5	32	33	
35,238	3.987	48	32	24	17	10	6	4	32	33	
35,158	3.966	66	43	31	22	13	7	5	32	33	
35,078	3.973	48	32	25	19	12	6	4	32	33	
34,999	3.958	64	40	30	20	12	6	5	32	33	
34,918	3.987	49	30	22	16	11	7	5	32	33	kim 34 = 1000 m
34,837	3.987	42	30	25	18	11	5	4	32	33	
34,760	3.980	44	33	28	22	15	8	7	32	33	
34,680	3.966	60	37	29	21	12	6	4	32	33	
34,601	3.958	77	49	37	26	16	9	7	32	33	
34,520	3.966	38	26	20	15	10	6	4	32	33	
34,440	3.944	68	43	34	25	15	8	6	32	33	
34,360	3.951	47	31	26	19	12	7	7	32	33	
34,279	3.937	61	45	38	28	17	8	6	32	34	
34,198	3.922	65	45	34	25	15	8	6	32	33	
34,119	3.987	36	26	22	18	11	6	5	32	33	
34,037	3.944	60	40	32	23	14	8	6	32	34	
33,960	3.973	41	30	25	19	13	7	5	32	33	kim 33 = 1000 m
33,880	3.958	55	33	25	17	9	5	4	32	34	
33,800	3.944	65	44	34	24	13	7	5	32	33	
33,719	3.973	42	27	21	15	9	5	5	32	34	
33,639	3.951	58	39	31	22	14	8	6	32	33	
33,558	3.958	53	37	29	22	13	7	4	32	34	
33,477	3.966	43	30	25	20	14	8	7	32	34	
33,400	3.987	45	34	27	20	11	6	5	32	33	
33,317	3.973	42	29	24	18	12	6	5	32	34	
33,240	3.951	65	43	35	27	16	9	7	32	33	
33,158	3.966	51	37	31	24	16	9	7	32	34	
33,077	3.951	42	31	26	21	14	8	6	32	33	
33,000	3.951	63	44	35	27	18	11	8	32	34	
32,918	3.980	51	34	28	23	15	9	6	32	34	kim 32 = 1000 m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 157 ao km 24,820							DATA: Abril/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
32,839	3.980	47	33	26	20	13	7	5	32	34	
32,759	3.973	32	23	19	15	11	6	4	32	34	
32,676	3.966	59	42	31	21	13	7	6	32	34	
32,600	3.980	43	30	24	17	10	5	4	32	33	
32,522	3.958	56	37	31	24	16	9	6	32	34	
32,460	3.951	48	33	27	20	12	6	5	32	33	
32,360	3.980	50	35	29	21	13	7	5	32	33	
32,281	3.966	52	38	31	24	14	8	6	32	34	
32,260	3.958	57	41	32	22	14	8	6	32	33	
32,200	3.958	45	32	26	20	13	7	6	32	33	
32,123	3.922	72	47	33	23	12	6	4	32	34	
32,040	3.966	50	35	27	20	12	6	5	32	33	
31,960	3.987	40	28	22	16	10	5	4	32	33	km 31 = 991 m
31,879	3.966	58	41	32	23	12	7	5	32	33	
31,797	3.951	61	42	34	24	14	8	6	32	33	
31,719	3.958	49	35	28	21	14	7	6	32	33	
31,640	3.966	49	36	29	21	13	7	5	32	33	
31,560	3.973	39	28	23	17	11	5	4	32	33	
31,478	3.915	74	46	35	23	14	8	6	32	33	
31,399	3.966	44	31	25	19	12	6	5	32	33	
31,319	3.966	37	27	23	18	12	7	5	32	33	
31,239	3.966	43	31	25	18	12	7	6	32	33	
31,157	3.958	61	42	34	25	16	9	7	32	33	
31,080	3.973	36	26	22	17	12	7	5	32	33	
31,000	3.958	41	31	26	20	13	7	6	32	33	
30,920	3.966	48	35	29	21	13	7	5	32	33	km 30 = 1013 m
30,842	3.980	41	30	23	17	12	6	4	32	33	
30,760	3.929	44	34	29	23	16	9	6	32	32	
30,679	3.966	45	34	29	23	15	8	6	32	32	
30,598	3.980	40	30	25	19	12	7	5	32	33	
30,520	3.944	47	33	25	19	12	7	5	32	33	
30,440	3.973	34	26	22	17	12	7	5	32	32	
30,358	3.973	38	30	25	20	13	7	5	32	32	
30,279	4.002	36	25	21	16	11	6	4	32	32	
30,200	3.987	30	20	17	14	10	6	5	32	32	
30,120	3.987	38	28	23	18	12	7	5	32	32	
30,039	3.951	61	39	30	21	13	7	5	32	32	
29,959	3.980	35	26	21	16	10	6	4	32	33	km 29 = 1000m
29,879	3.980	28	20	17	13	9	5	4	32	32	
29,797	3.973	34	24	20	15	11	6	5	32	32	
29,718	3.951	50	36	28	21	13	6	4	32	32	
29,638	3.958	44	28	22	17	11	7	5	32	32	
29,560	3.994	30	22	18	15	10	6	4	32	32	
29,480	3.973	38	24	18	13	8	4	3	32	32	
29,399	3.951	35	25	20	15	10	6	4	32	32	
29,318	3.987	40	26	21	16	10	6	4	32	32	
29,238	3.929	54	37	30	22	13	7	5	32	32	
29,157	3.908	31	23	19	15	11	6	5	32	32	
29,078	3.958	45	32	25	18	12	7	5	32	32	
29,000	3.980	30	23	19	15	9	5	4	32	32	
28,918	3.973	32	24	20	16	11	6	5	32	32	km 28 = 1000m
28,838	3.958	34	24	20	15	11	6	5	32	32	
28,758	3.980	30	23	20	17	12	7	5	30	32	
28,678	3.973	31	23	19	15	11	6	5	30	32	
28,597	3.958	42	31	26	20	13	8	6	30	32	
28,520	3.958	36	25	21	16	11	6	5	30	32	
28,442	3.951	43	29	22	16	11	6	5	30	32	
28,359	3.980	37	26	21	16	10	6	4	30	32	
28,277	3.973	36	25	20	16	11	6	6	30	32	
28,198	3.922	50	37	30	23	15	8	6	30	32	
28,117	3.966	29	20	17	13	9	5	4	30	32	
28,040	3.980	32	25	21	17	12	7	5	30	32	
27,957	3.980	31	23	20	16	11	6	5	30	32	km 27 = 1000m
27,878	3.966	29	22	18	15	11	7	5	30	32	
27,797	4.009	24	18	15	11	8	4	3	30	32	
27,720	3.980	36	26	21	16	11	6	5	30	32	
27,640	3.958	52	33	25	18	11	7	5	30	32	
27,560	3.951	70	41	30	20	13	7	6	30	32	
27,480	3.966	40	31	26	20	13	7	5	30	32	
27,400	3.980	42	32	26	20	12	6	5	30	32	

[illegible]

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA: BR-040 / MG TRECHO: km 157 ao km 0 DATA: Abril/2007
 PISTA: Decrescente FAIXA: 3
 SENTIDO: MG/DF ENSAIO: a cada 80 m

km	Força (kgf)	Deflexões (0,01 mm)							Temp.		OBS
		D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
156,300	4.081	61	47	39	30	19	11	8	34	30	início = km 156,300
156,220	4.073	75	56	44	34	21	10	7	34	30	
156,140	4.015	73	56	45	34	21	11	8	34	30	
156,060	4.022	77	54	41	27	16	8	6	35	30	
155,980	4.066	63	46	35	26	15	7	5	35	30	
155,900	3.913	80	52	43	32	20	11	8	35	30	
155,820	3.927	72	56	40	30	19	8	9	35	30	
155,740	4.008	77	56	42	30	17	8	5	35	30	
155,660	3.942	79	55	42	30	17	8	5	35	30	
155,580	3.971	84	59	45	32	20	10	8	36	30	
155,500	3.986	66	47	35	25	15	9	7	35	30	final = km 155,500
97,340	4.167	38	24	17	11	5	3	2	26	23	início = km 97,350
97,280	4.182	33	22	16	10	6	3	3	26	23	
97,197	4.167	37	23	17	11	6	3	2	20	23	
97,120	4.160	52	34	25	16	9	4	2	20	23	
97,039	4.160	60	38	26	16	7	4	2	20	24	
96,949	4.160	50	32	21	13	6	4	3	20	24	
96,880	4.146	62	39	27	16	7	4	3	20	24	
96,798	4.139	49	33	23	14	6	3	2	20	24	
96,717	4.131	50	33	23	15	8	5	3	20	24	
96,640	4.110	64	43	29	19	9	5	3	20	24	
96,559	4.131	55	32	20	11	6	4	3	20	24	
96,480	4.160	39	25	17	10	5	3	3	20	24	
96,401	4.189	32	24	17	12	6	4	2	20	24	
96,319	4.160	39	26	20	14	7	3	2	20	24	
96,239	4.153	28	21	17	13	8	5	4	20	25	
96,157	4.175	23	17	13	9	5	3	2	20	24	
96,080	4.167	33	24	18	12	6	3	1	20	24	final = km 96,050
53,040	3.915	74	37	29	19	11	6	4	31	34	início = km 53,100
52,960	3.915	80	41	33	21	12	6	4	31	34	
52,879	3.937	74	40	33	23	13	6	4	31	33	
52,799	3.937	67	40	35	25	16	9	7	31	34	
52,720	3.944	68	38	33	25	17	10	7	31	34	
52,637	3.929	63	40	38	30	21	13	10	31	34	
52,559	3.958	67	33	27	19	11	6	4	31	34	
52,478	3.987	62	34	28	18	10	5	4	31	34	
52,398	3.951	80	36	27	17	9	5	4	31	33	
52,317	3.951	68	35	26	16	8	4	2	31	33	fim = km 52,300
43,040	4.002	31	19	19	15	10	6	4	29	31	início = km 43,050
42,960	4.016	24	15	14	11	7	4	3	29	31	
42,880	3.915	79	56	51	34	17	8	5	29	31	
42,801	3.987	41	27	26	20	13	7	4	29	31	
42,721	3.944	49	30	29	22	14	7	5	29	31	
42,641	3.922	75	46	42	30	19	10	7	29	31	
42,560	3.843	126	82	65	46	26	13	9	29	31	
42,481	3.886	88	54	49	36	21	11	7	29	32	
42,401	3.922	79	48	42	30	18	9	6	29	31	
42,321	3.872	87	51	44	33	20	11	7	29	32	
42,240	3.915	77	40	32	24	16	9	7	29	31	
42,161	3.857	109	65	55	38	21	10	5	29	31	
42,081	3.843	114	69	57	38	21	11	6	29	31	
42,000	3.879	94	57	50	37	25	15	10	29	31	
41,920	3.901	74	46	44	34	23	14	10	29	31	
41,839	3.865	107	60	54	41	26	15	10	29	31	
41,760	3.893	103	62	56	41	27	15	10	29	31	
41,680	3.937	71	39	34	25	18	11	9	29	31	
41,600	3.865	107	60	52	37	23	12	8	29	31	
41,519	3.929	63	39	38	30	21	12	8	29	31	
41,440	3.937	62	37	36	29	20	12	8	29	31	
41,359	3.908	91	43	33	22	12	6	3	29	31	
41,279	3.980	61	33	27	19	12	7	5	29	31	
41,199	3.958	55	32	30	22	14	9	7	29	31	
41,118	3.994	41	25	22	17	11	7	6	29	31	
41,038	4.009	43	26	22	16	10	6	4	29	31	

[illegible]

TRECHO: DIVISA GO/MG (km 0,0) - JUIZ DE FORA/MG (km 771,1)

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4							DATA: fev/2007		
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
0,000	3.957	46	32	25	18	11	6	5	32	35	
0,080	3.979	16	11	9	8	6	4	3	32	36	
0,161	3.942	40	30	23	17	10	6	4	32	35	
0,242	3.986	29	20	16	12	9	5	4	32	35	
0,320	4.000	21	14	12	10	8	5	4	32	35	
0,400	3.957	27	21	18	15	12	8	6	32	35	
0,481	3.964	40	31	27	22	16	10	8	32	35	
0,560	3.964	37	29	24	19	14	8	7	32	35	
0,640	3.942	54	44	37	30	22	13	11	32	35	
0,720	3.774	123	70	50	36	23	13	11	32	35	
0,801	3.927	46	32	26	21	15	9	7	32	35	
0,883	3.949	28	21	18	14	11	6	5	32	35	
0,962	3.957	36	25	19	14	9	5	4	32	36	km 0 = 1000m
1,040	3.927	42	36	28	21	14	8	7	32	35	
1,121	3.957	20	15	13	10	7	4	3	32	35	
1,201	3.979	27	19	16	13	9	6	4	32	35	
1,281	3.957	33	26	23	19	14	9	7	32	35	
1,362	3.971	17	11	10	8	7	5	4	32	35	
1,443	3.993	20	14	11	9	6	4	3	32	35	
1,522	3.986	19	14	11	9	6	4	3	32	35	
1,600	3.979	33	24	19	14	9	5	3	32	36	
1,681	3.949	34	24	21	17	13	8	7	32	36	
1,761	3.920	34	25	22	18	14	9	8	32	36	
1,840	3.979	22	16	15	13	10	7	6	32	36	
1,921	3.913	43	29	23	18	12	8	6	32	36	km 1 = 995m
2,000	3.942	46	31	22	14	8	4	3	32	36	
2,080	3.854	112	67	39	23	11	5	3	32	36	
2,170	3.854	102	64	43	25	13	6	4	32	36	
2,240	3.927	57	42	29	20	11	5	4	32	36	
2,320	3.876	67	52	42	30	19	10	7	32	36	
2,400	3.942	44	30	23	18	14	8	7	32	36	
2,481	3.971	28	19	16	13	10	7	6	32	36	
2,560	3.964	49	33	25	19	12	7	5	32	36	
2,641	3.957	24	16	12	9	6	4	3	32	36	
2,722	3.986	21	14	10	8	5	3	2	32	36	
2,803	3.971	36	24	17	11	7	4	3	32	36	
2,882	3.971	32	19	14	10	7	4	3	32	36	
2,960	3.964	34	25	21	16	12	8	6	32	36	km 2 = 1012m
3,039	3.906	70	52	41	30	18	9	5	32	36	
3,120	3.949	31	21	15	10	6	3	2	32	36	
3,200	3.957	24	18	14	10	7	4	3	32	35	
3,280	3.949	28	12	10	7	5	3	2	32	36	
3,361	3.986	20	12	10	8	6	4	3	32	36	
3,440	4.000	39	26	17	11	6	3	2	32	36	
3,521	3.993	38	29	23	18	12	7	5	32	36	
3,603	3.957	35	27	22	17	12	7	6	32	36	
3,683	4.000	26	18	12	8	5	3	2	32	35	
3,760	3.986	38	28	22	17	11	7	5	32	35	
3,840	3.993	31	22	17	14	10	6	5	32	36	
3,920	3.979	41	24	15	11	7	3	4	32	36	km 3 = 1000m
4,000	3.986	42	29	21	14	8	4	3	32	36	
4,081	3.957	53	36	26	18	11	6	4	32	36	
4,161	3.971	38	25	17	11	6	3	2	32	36	
4,241	3.927	40	24	17	11	6	3	2	32	36	
4,320	3.935	47	31	20	14	8	5	4	32	36	
4,403	3.935	68	43	31	22	15	9	7	32	36	
4,479	3.964	40	20	12	9	6	4	4	32	36	
4,561	3.964	53	33	22	15	10	6	5	32	36	
4,641	3.986	37	28	22	18	10	6	5	32	36	
4,723	4.000	21	12	7	6	3	2	2	32	36	
4,801	4.000	21	11	8	7	5	3	2	32	36	
4,880	3.986	26	17	13	9	6	3	3	32	36	
4,961	3.949	29	18	12	9	5	3	2	32	36	km 4 = 1000m
5,040	3.964	24	15	12	9	6	4	3	32	36	
5,117	3.964	24	16	12	8	5	3	2	32	36	
5,198	3.935	30	18	12	8	4	2	2	32	36	
5,277	3.964	25	14	11	8	5	3	2	32	36	
5,358	3.964	43	30	22	14	8	3	2	32	36	
5,438	3.949	39	28	20	13	7	3	2	32	36	
5,519	3.935	34	22	16	11	6	4	3	32	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
5,600	3,949	44	31	23	16	9	4	4	32	36	
5,681	3,971	37	27	20	14	8	4	3	32	36	
5,762	3,964	38	24	17	11	6	3	2	32	36	
5,842	4,008	17	11	9	6	4	2	1	32	36	
5,923	3,957	18	14	11	8	5	3	2	32	36	km 5 = 993m
6,000	3,979	16	10	8	6	4	2	2	32	36	
6,079	3,979	17	11	8	6	5	3	3	32	35	
6,161	3,986	15	10	8	7	5	4	3	32	35	
6,242	3,993	17	9	7	5	3	2	2	32	35	
6,321	3,964	14	9	7	6	4	2	2	32	35	
6,402	3,979	18	12	9	7	4	3	2	32	35	
6,482	4,015	13	9	6	5	4	3	2	32	35	
6,563	3,971	17	12	10	8	5	3	3	32	35	
6,640	4,000	30	23	18	14	10	6	5	32	35	
6,721	3,986	16	11	9	7	4	2	2	32	35	
6,802	3,971	12	8	7	5	4	2	2	32	35	
6,879	3,964	17	10	7	6	4	2	2	32	35	
6,961	3,957	13	8	7	6	4	2	2	32	35	km 6 = 1000m
7,041	3,964	26	16	11	8	5	2	2	32	34	
7,122	3,979	16	10	7	5	4	2	2	32	35	
7,202	3,957	17	9	6	4	3	1	2	32	35	
7,282	3,979	10	6	5	3	2	1	1	32	35	
7,360	3,993	15	8	6	4	3	2	2	32	35	
7,441	3,986	19	10	6	4	3	2	2	32	35	
7,522	3,986	17	11	9	7	5	2	1	32	34	
7,600	3,971	25	16	11	8	5	3	2	32	34	
7,680	4,000	13	8	6	5	3	2	1	32	34	
7,760	4,000	11	5	4	4	3	2	2	32	34	
7,840	3,979	12	7	6	5	3	2	2	32	34	
7,922	4,000	15	8	5	4	3	2	2	32	34	km 7 = 1000m
8,000	3,993	14	8	6	5	4	2	2	32	34	
8,081	3,993	12	8	6	5	4	3	2	32	34	
8,161	3,993	19	10	8	5	4	3	2	32	34	
8,240	4,000	13	8	6	5	3	2	2	32	34	
8,320	4,015	16	11	8	6	4	3	2	32	34	
8,400	4,000	21	15	12	10	7	4	3	32	34	
8,480	3,993	23	15	12	9	7	4	3	32	33	
8,562	3,986	18	13	11	8	5	3	3	32	34	
8,642	3,964	17	10	7	5	4	2	2	32	34	
8,722	3,957	21	16	12	8	5	3	2	32	34	
8,802	3,986	17	11	9	6	4	2	2	32	34	
8,880	3,993	11	6	5	4	3	2	1	32	33	
8,960	3,979	13	8	6	4	3	1	1	32	33	km 8 = 1000m
9,040	3,964	25	15	12	9	5	3	2	32	34	
9,120	3,979	13	8	6	5	4	2	2	32	33	
9,202	3,986	28	17	12	8	5	3	3	32	33	
9,283	4,008	14	9	7	5	4	3	3	32	33	
9,361	4,000	20	13	11	8	6	4	3	32	34	
9,440	3,949	35	20	16	13	9	6	5	32	33	
9,520	3,964	33	23	15	11	8	5	4	30	34	
9,600	3,957	43	28	20	14	10	6	4	30	33	
9,682	3,986	34	22	17	12	8	5	4	30	33	
9,761	3,927	44	26	18	14	10	7	5	30	33	
9,842	3,957	37	24	18	14	9	6	5	30	33	
9,922	3,971	36	26	20	15	10	6	5	30	33	km 9 = 1000m
10,000	3,927	35	23	18	14	9	6	5	30	33	
10,081	3,920	37	28	22	16	11	6	5	30	33	
10,163	3,913	46	36	29	21	15	6	6	30	33	
10,242	3,986	26	19	15	11	8	5	4	30	33	
10,322	3,949	49	30	23	17	11	7	6	30	33	
10,400	3,949	45	32	26	19	13	8	6	30	33	
10,481	4,000	32	21	16	12	8	5	4	30	32	
10,563	3,949	31	23	19	15	10	6	4	30	32	
10,640	3,964	36	25	20	16	11	7	6	30	32	
10,721	3,986	23	17	14	11	8	5	4	30	32	
10,802	4,000	14	10	8	6	5	3	3	30	32	
10,881	4,008	16	11	9	8	6	4	3	30	32	
10,962	3,942	20	14	12	9	6	4	3	30	32	km 10 = 1000m
11,038	3,964	16	10	7	5	3	2	2	30	32	
11,118	3,942	18	12	8	7	5	3	2	30	33	
11,200	3,957	28	16	13	10	7	4	4	30	32	
11,278	3,964	26	19	15	12	9	6	5	30	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
11,359	3,913	49	35	25	18	12	8	7	30	32	
11,439	3,927	44	32	26	19	13	7	6	30	32	
11,520	3,993	50	32	25	18	12	7	6	30	32	
11,602	3,993	46	29	22	16	11	7	5	30	32	
11,681	4,022	34	24	20	15	10	6	5	30	32	
11,761	4,052	38	31	24	18	12	7	6	30	32	
11,843	3,993	43	30	24	17	11	6	5	30	32	
11,922	4,000	42	29	23	18	12	7	6	30	32	km 11 = 1000m
12,000	4,008	51	39	32	23	15	9	7	30	32	
12,080	4,044	43	32	26	19	13	7	6	30	32	
12,162	4,044	36	27	22	17	12	7	5	30	32	
12,241	4,044	41	33	27	21	15	8	7	30	32	
12,320	4,044	29	22	18	15	11	7	6	30	32	
12,400	4,008	42	32	27	22	16	10	8	30	32	
12,481	4,008	38	29	24	20	15	9	8	30	32	
12,560	4,030	28	21	18	15	11	7	6	30	32	
12,640	4,008	40	30	24	19	14	8	7	30	32	
12,721	4,000	41	30	25	19	14	9	7	30	32	
12,802	3,993	49	37	29	22	15	9	7	30	33	
12,880	3,993	42	31	25	21	14	9	7	30	32	
12,962	4,015	44	34	27	21	14	8	7	30	32	km 12 = 1000m
13,040	3,986	45	33	27	21	15	9	7	30	32	
13,119	4,022	38	27	22	18	13	8	7	30	33	
13,201	4,015	46	34	28	21	14	8	7	30	32	
13,280	4,044	28	21	17	14	11	6	6	30	32	
13,361	4,030	41	30	24	19	13	7	6	30	32	
13,442	4,044	35	28	21	17	12	6	6	30	32	
13,520	4,044	42	34	28	22	15	9	7	30	32	
13,601	4,044	48	38	31	23	15	9	7	30	32	
13,680	4,015	64	49	33	23	13	7	6	30	32	
13,758	4,015	62	47	37	26	16	9	7	30	32	
13,839	4,030	60	42	32	22	13	7	5	30	32	
13,920	4,022	64	46	34	23	14	7	6	30	32	km 13 = 1000m
14,000	4,037	38	28	22	17	11	6	5	30	32	
14,081	4,052	33	26	21	16	11	7	5	30	32	
14,162	4,066	35	25	20	15	11	7	6	30	32	
14,242	4,037	51	37	30	21	14	8	6	30	31	
14,323	4,030	49	34	27	21	13	7	5	30	32	
14,400	4,081	30	21	16	13	9	5	5	30	31	
14,480	4,052	31	23	18	14	10	6	5	30	31	
14,544	4,081	26	18	15	12	9	6	5	30	31	
14,620	4,095	25	20	17	14	10	6	5	30	31	
14,720	4,015	40	31	21	16	10	6	5	30	32	
14,802	4,059	24	17	14	11	8	5	4	30	31	
14,884	4,022	32	25	21	16	11	7	6	30	32	
14,960	4,030	25	19	15	12	10	7	6	30	32	km 14 = 1032m
15,040	4,052	16	13	11	10	8	5	4	30	31	
15,118	4,073	24	18	15	12	9	6	5	30	31	
15,199	4,052	31	26	22	19	14	9	7	30	31	
15,279	4,073	21	16	14	11	9	6	5	30	31	
15,362	4,081	18	15	12	10	8	5	4	30	32	
15,441	4,059	25	23	18	15	12	7	6	30	31	
15,523	4,052	24	19	16	14	10	6	5	30	31	
15,613	4,059	23	19	16	13	10	7	6	30	31	
15,680	4,073	23	16	12	10	7	4	3	30	32	
15,761	4,052	21	17	14	11	8	4	3	30	31	
15,841	4,037	22	17	14	12	8	5	3	30	31	
15,920	4,015	29	24	20	16	12	7	5	30	31	km 15 = 1000m
16,000	4,053	36	26	24	20	15	11	7	30	31	
16,080	4,069	31	24	23	20	15	12	8	30	31	
16,160	4,076	33	21	20	15	11	8	5	30	31	
16,241	4,100	20	11	11	9	7	4	3	30	30	
16,323	4,069	24	14	13	10	7	5	4	30	31	
16,402	4,092	27	16	16	12	9	7	5	30	31	
16,481	4,108	12	7	7	6	4	4	3	30	31	
16,562	4,108	14	8	7	5	4	3	2	30	31	
16,642	4,053	19	10	10	7	5	4	3	30	32	
16,718	4,045	23	15	15	12	9	6	4	30	32	
16,798	4,076	32	20	19	15	11	9	6	30	31	
16,878	4,076	27	21	19	15	12	9	6	30	32	
16,959	4,084	26	16	15	12	9	6	4	30	32	km 16 = 1000m
17,040	4,116	22	15	14	11	8	6	4	30	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
17,121	4,092	20	12	12	9	7	5	4	30	32	
17,200	4,108	25	14	13	10	7	4	3	30	32	
17,282	4,116	22	13	12	8	5	3	2	30	33	
17,363	4,100	29	17	16	11	7	5	3	30	33	
17,442	4,108	34	20	19	14	9	6	3	30	33	
17,522	4,116	13	8	7	6	4	3	2	30	33	
17,600	4,140	11	8	7	6	4	3	2	30	33	
17,677	4,124	15	8	8	6	4	3	2	30	33	
17,761	4,108	16	10	10	7	5	4	2	30	34	
17,837	4,116	18	14	12	10	7	5	3	30	34	
17,918	4,116	21	15	14	11	9	7	5	30	34	km 17 = 1000m
18,000	4,092	26	20	17	15	11	8	5	30	34	
18,081	4,108	26	20	18	14	11	8	6	30	34	
18,161	4,076	51	32	31	24	15	10	7	30	34	
18,241	4,053	50	32	30	21	14	10	6	30	34	
18,320	4,076	41	26	24	16	11	7	5	30	34	
18,400	4,005	57	34	32	23	14	9	6	30	34	
18,477	4,069	47	29	26	19	12	7	5	30	34	
18,558	4,100	46	29	27	20	13	9	6	30	34	
18,639	4,108	44	28	27	20	13	9	6	30	34	
18,718	4,124	28	23	20	16	13	10	7	30	34	
18,799	4,108	62	39	36	22	15	9	7	30	34	
18,879	4,116	31	24	22	17	13	10	6	30	34	
18,961	4,148	24	19	16	13	11	8	6	30	34	km 18 = 1000m
19,040	4,124	25	20	18	15	11	9	6	30	34	
19,040	4,116	25	20	18	15	11	8	6	30	34	
19,120	4,132	27	18	17	14	10	7	5	30	34	
19,201	4,108	29	22	20	16	12	9	6	30	34	
19,283	4,124	22	15	15	12	8	5	4	30	34	
19,358	4,100	28	19	18	14	9	6	5	30	34	
19,439	4,076	29	21	20	15	10	6	4	30	34	
19,520	4,100	28	20	19	13	10	6	5	30	34	
19,601	4,100	26	17	16	12	8	5	4	30	34	
19,677	4,084	28	17	16	12	7	5	4	30	34	
19,758	4,140	21	12	11	9	5	4	3	30	34	
19,840	4,108	22	14	13	9	6	4	3	30	34	
19,920	4,108	23	13	11	7	4	2	2	30	34	km 19 = 961m
20,009	4,132	23	13	11	7	4	2	2	30	34	
20,082	4,108	25	14	11	7	4	2	2	30	34	
20,161	4,155	18	10	9	5	3	2	2	30	34	
20,242	4,148	19	9	7	4	2	1	1	30	34	
20,321	4,116	16	10	9	5	3	2	2	30	34	
20,402	4,140	18	11	9	6	4	3	2	30	33	
20,479	4,132	18	10	9	6	3	2	2	30	33	
20,558	4,076	31	20	18	13	7	4	3	30	33	
20,639	4,100	32	18	15	10	7	5	4	30	33	
20,721	4,084	28	17	15	10	6	4	3	30	33	
20,802	4,108	47	29	24	15	8	5	4	30	33	
20,884	4,069	63	36	30	19	11	7	4	30	33	
20,970	4,116	39	25	23	16	10	6	4	30	32	km 20 = 1000m
21,042	4,076	55	32	28	19	10	6	4	30	32	
21,122	4,108	55	31	27	19	11	7	6	30	32	
21,197	4,092	55	33	28	18	10	7	4	30	32	
21,278	4,116	45	27	24	15	9	6	4	30	32	
21,359	4,116	57	33	30	20	11	6	3	30	32	
21,439	4,076	40	25	24	17	10	6	3	30	32	
21,520	4,116	44	27	25	18	11	6	5	30	32	
21,601	4,092	74	40	34	20	11	7	4	30	32	
21,681	4,092	42	26	23	15	9	6	4	30	32	
21,762	4,084	39	23	21	16	9	7	4	30	32	
21,842	4,124	31	16	13	8	4	3	2	30	32	
21,923	4,116	32	14	10	7	4	3	2	30	32	km 21 = 1000m
22,000	4,108	34	20	16	11	6	4	2	30	32	
22,080	4,084	43	24	20	13	6	3	2	30	32	
22,160	4,076	33	19	18	12	7	4	3	30	32	
22,240	4,108	33	18	14	10	7	5	3	30	32	
22,321	4,092	46	25	17	10	6	4	3	30	32	
22,402	4,100	38	18	14	9	5	3	2	30	33	
22,482	4,092	35	23	19	11	5	4	2	30	33	
22,562	4,116	32	15	10	6	3	2	1	30	33	
22,643	4,100	32	18	15	10	8	6	4	30	33	
22,718	4,069	33	16	12	7	5	3	3	30	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
22,798	4.045	47	27	24	15	9	6	4	30	33	
22,878	4.076	38	23	21	15	10	7	5	30	33	
22,960	4.037	51	29	26	18	11	7	5	30	34	km 22 = 1000m
23,039	4.061	50	27	23	16	10	8	6	30	34	
23,119	4.045	47	31	29	21	13	9	6	30	34	
23,200	4.084	37	23	22	16	11	7	5	30	35	
23,277	4.053	51	32	29	21	13	9	6	30	34	
23,358	4.100	39	24	23	17	11	8	6	30	35	
23,437	4.100	40	26	24	17	11	7	4	30	34	
23,518	4.076	51	29	27	19	12	8	6	30	34	
23,598	4.069	46	30	29	22	14	10	7	30	35	
23,679	4.037	59	32	29	22	14	10	7	30	35	
23,762	4.021	55	34	32	23	14	9	7	30	34	
23,841	4.013	79	48	44	30	19	11	8	30	34	
23,922	4.037	67	42	39	27	18	12	8	30	34	km 23 = 992m
24,000	4.029	70	39	36	25	16	11	8	30	34	
24,082	4.037	60	39	38	28	18	12	8	30	34	
24,163	4.037	54	33	29	20	13	8	6	30	34	
24,242	4.061	46	29	27	19	12	8	5	30	34	
24,318	4.045	43	30	29	21	14	10	7	30	34	
24,401	4.069	40	25	23	17	11	8	5	30	34	
24,482	4.029	41	26	25	18	12	8	6	30	34	
24,560	4.069	48	31	29	21	13	9	6	30	34	
24,641	4.092	44	28	26	21	12	8	6	30	34	
24,723	4.092	47	30	28	21	14	9	7	30	34	
24,803	4.087	47	29	27	17	12	6	6	30	34	
24,880	4.095	49	28	25	17	11	6	5	3	0	
24,960	4.118	41	27	25	18	11	6	5	30	34	km 24 = 1010m
25,041	4.072	40	28	27	20	13	7	6	30	34	
25,117	4.087	41	27	26	20	12	7	5	30	33	
25,198	4.103	39	26	25	19	11	5	4	30	34	
25,279	4.087	38	24	23	16	9	5	3	30	34	
25,359	4.142	24	15	13	9	5	3	2	30	33	
25,443	4.134	27	17	15	10	6	3	2	32	34	
25,521	4.087	26	15	13	10	5	3	2	32	34	
25,602	4.126	27	15	13	8	4	2	1	32	34	
25,682	4.079	42	25	21	14	8	4	3	32	34	
25,763	4.072	42	26	23	15	9	4	3	32	34	
25,837	4.111	32	19	17	10	6	3	2	32	34	
25,917	4.095	45	27	23	16	8	6	4	32	34	km 25 = 1000m
26,000	4.040	49	28	24	17	10	6	4	32	34	
26,081	4.111	43	26	25	18	12	8	6	32	34	
26,160	4.126	38	22	21	15	10	7	5	32	34	
26,242	4.095	52	31	27	20	12	8	6	32	34	
26,322	4.079	46	29	27	20	13	7	6	32	34	
26,400	4.126	38	24	22	15	10	6	5	32	34	
26,482	4.118	38	24	22	16	11	8	6	32	34	
26,561	4.142	38	23	21	15	10	7	5	32	34	
26,643	4.126	41	26	25	18	12	7	5	32	34	
26,718	4.118	40	26	25	18	11	7	5	32	34	
26,799	4.111	44	30	29	21	14	9	6	32	34	
26,880	3.923	43	26	23	16	9	6	3	32	33	
26,970	4.126	33	19	16	11	7	4	3	32	34	km 26 = 1000m
27,040	4.134	26	16	13	9	5	2	1	32	33	
27,121	4.134	42	23	20	12	6	3	2	32	34	
27,200	4.150	29	16	14	9	5	3	2	32	34	
27,277	4.118	38	23	21	14	8	5	2	32	33	
27,357	4.111	40	26	24	16	11	6	4	32	33	
27,438	4.118	43	25	22	15	9	5	3	32	33	
27,518	4.118	31	17	15	11	5	3	2	32	33	
27,600	4.150	28	17	14	9	5	2	1	32	33	
27,679	4.142	21	13	11	9	4	2	1	32	33	
27,761	4.165	19	11	10	7	5	2	2	32	33	
27,841	4.126	23	14	12	7	4	3	2	32	33	
27,922	4.157	25	15	14	9	5	3	2	32	32	km 27 = 1000m
28,000	4.134	27	17	15	9	5	3	2	32	33	
28,081	4.118	29	18	16	12	7	4	3	32	33	
28,162	4.111	32	18	16	10	5	3	2	32	32	
28,243	4.118	24	12	10	6	4	3	2	32	32	
28,322	4.111	50	28	23	15	9	4	3	32	33	
28,400	4.150	29	16	15	10	6	4	3	32	32	
28,481	4.150	20	12	11	7	5	3	2	32	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
28,562	4.134	28	19	18	13	9	5	4	32	32	
28,640	4.103	30	20	18	13	8	5	3	32	32	
28,717	4.150	34	22	20	14	8	5	4	32	32	
28,799	4.126	31	19	18	13	8	5	4	32	33	
28,880	4.118	35	22	20	14	9	6	5	32	32	
28,967	4.150	37	23	21	14	9	5	3	32	32	km 28 = 1000m
29,040	4.142	43	26	22	14	8	5	4	32	32	
29,121	4.079	29	19	18	14	9	7	5	32	32	
29,200	4.111	39	27	26	19	10	6	4	32	32	
29,281	4.111	38	26	24	16	10	6	4	32	32	
29,360	4.134	30	20	19	14	8	4	2	32	32	
29,439	4.134	27	16	15	11	6	5	3	32	32	
29,519	4.118	37	20	17	11	7	4	3	32	33	
29,599	4.079	59	34	30	21	12	8	5	32	33	
29,681	4.103	47	28	24	16	10	6	4	32	32	
29,761	4.087	28	17	15	10	7	4	3	32	33	
29,841	4.111	29	15	13	8	6	3	2	32	33	
29,920	4.142	26	16	14	10	6	4	3	32	33	km 29 = 1000m
30,000	4.134	24	15	14	10	7	4	3	32	32	
30,080	4.092	54	34	31	21	13	8	5	33	31	
30,160	4.132	46	29	28	21	14	9	6	33	31	
30,241	4.132	31	21	20	16	11	9	6	33	31	
30,322	4.171	31	19	17	12	7	4	3	33	31	
30,403	4.148	28	17	15	11	7	5	3	33	31	
30,481	4.140	24	15	14	10	6	4	3	33	31	
30,560	4.124	30	19	17	13	9	5	3	33	31	
30,638	4.140	28	19	18	14	10	7	4	33	31	
30,718	4.124	33	23	22	19	11	7	5	33	31	
30,802	4.116	35	21	20	14	9	6	4	33	31	
30,880	4.132	34	22	21	15	10	6	4	33	31	
30,962	4.092	29	17	16	11	7	5	3	33	31	km 30 = 1000m
31,040	4.108	27	16	14	10	6	4	3	33	32	
31,121	4.100	30	18	17	11	8	4	3	33	32	
31,201	4.116	31	20	18	13	8	6	4	33	32	
31,281	4.116	28	17	16	11	6	4	3	33	32	
31,360	4.100	34	19	18	12	8	5	4	33	32	
31,443	4.045	40	26	25	20	14	9	5	33	32	
31,523	4.100	31	21	20	15	10	6	5	33	33	
31,600	4.108	27	18	18	14	9	6	5	33	33	
31,681	4.124	27	18	17	13	8	5	3	33	33	
31,761	4.132	25	15	14	10	6	4	2	33	33	
31,841	4.116	31	20	18	13	8	5	3	33	33	
31,922	4.108	26	16	14	9	5	3	2	33	33	km 31 = 1000m
32,000	4.124	22	13	12	9	6	4	2	33	33	
32,080	4.100	27	16	15	12	7	5	3	33	33	
32,158	4.108	28	15	12	8	6	3	3	33	33	
32,239	4.132	30	17	15	10	6	5	3	33	33	
32,320	4.108	32	18	15	10	6	4	3	33	33	
32,400	4.140	29	15	12	8	5	3	2	33	33	
32,481	4.124	28	15	13	9	5	4	3	33	33	
32,562	4.132	32	21	19	15	10	6	4	33	33	
32,642	4.124	38	26	23	17	11	8	5	33	34	
32,723	4.148	28	16	14	9	6	5	4	33	33	
32,800	4.155	28	17	15	10	6	4	3	33	33	
32,880	4.076	50	27	23	16	10	8	5	33	33	
32,961	4.124	38	21	17	11	6	5	3	33	33	km 32 = 1000m
33,040	4.140	32	17	14	8	5	4	3	33	33	
33,120	4.116	27	15	11	7	4	3	3	33	33	
33,202	4.108	43	26	23	14	8	5	4	33	33	
33,282	4.100	39	22	19	11	7	5	3	33	33	
33,362	4.116	33	20	17	10	6	4	3	33	33	
33,441	4.092	34	20	17	10	7	5	4	33	33	
33,521	4.100	34	20	17	11	6	4	3	33	33	
33,602	4.084	31	19	15	9	4	3	2	33	33	
33,683	4.116	19	10	8	5	3	1	1	33	32	
33,760	4.100	21	11	9	6	3	1	1	33	33	
33,840	4.045	41	21	14	8	4	1	1	33	32	
33,923	4.084	26	14	10	5	2	1	1	33	32	km 33 = 1000m
34,006	4.069	35	23	21	15	11	7	5	33	32	
34,080	4.100	21	14	12	8	5	4	2	33	32	
34,162	4.092	29	21	20	15	9	6	3	33	32	
34,240	4.069	29	20	19	14	9	6	3	33	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
34,321	4.100	34	22	20	14	8	4	1	33	31	
34,401	4.124	41	29	26	18	10	4	2	33	32	
34,483	4.092	22	15	13	9	5	3	2	33	32	
34,561	4.045	29	19	15	10	5	2	1	33	32	
34,641	4.084	30	19	17	11	6	3	1	33	32	
34,722	4.100	38	26	24	16	9	5	2	33	32	
34,800	4.116	25	17	15	11	6	3	1	33	32	
34,881	4.053	56	37	33	22	13	7	4	33	32	
34,961	4.084	31	19	17	11	7	5	4	33	32	km 34 = 1000m
35,042	4.084	32	22	21	16	11	7	4	33	32	
35,120	4.092	36	24	23	16	10	7	5	33	32	
35,201	4.084	31	21	21	15	10	8	5	33	32	
35,282	4.053	46	32	29	20	13	9	6	33	32	
35,363	4.069	42	27	25	17	11	7	5	33	32	
35,440	4.100	44	28	25	16	10	7	5	33	32	
35,520	4.069	57	38	38	28	18	12	6	33	32	
35,600	4.045	52	35	33	25	17	13	9	33	32	
35,681	3.997	67	44	43	32	21	13	8	33	32	
35,760	4.100	54	34	32	22	16	11	7	33	32	
35,842	4.061	53	29	25	15	8	5	4	33	32	
35,924	4.116	39	22	19	12	8	5	4	33	32	km 35 = 1000m
36,000	4.140	27	16	14	9	4	3	2	33	31	
36,080	4.132	35	21	18	11	6	3	2	33	32	
36,161	4.140	42	28	26	17	11	7	4	33	32	
36,240	4.100	51	31	29	19	12	7	4	33	31	
36,322	4.084	68	41	38	25	17	12	8	33	31	
36,402	4.116	49	32	30	21	13	7	3	33	32	
36,482	4.116	38	25	24	17	11	7	4	33	32	
36,560	4.140	25	18	17	13	9	6	3	33	31	
36,641	4.132	34	23	22	16	11	7	4	33	32	
36,723	4.092	34	23	22	17	11	8	5	33	31	
36,800	4.100	24	15	14	13	8	4	3	33	31	
36,881	4.084	37	23	21	15	10	7	5	33	31	
36,962	4.076	37	23	21	16	10	7	5	33	31	km 36 = 1000m
37,041	4.061	50	33	31	22	15	10	6	33	31	
37,122	4.100	30	18	16	10	6	4	3	33	31	
37,207	4.108	45	27	22	13	7	4	3	33	31	
37,280	4.084	66	37	31	19	11	8	5	33	32	
37,367	4.100	42	25	22	14	9	6	4	33	31	
37,437	4.092	40	26	24	18	11	7	5	33	31	
37,518	4.092	36	23	20	13	8	5	4	33	32	
37,598	4.092	32	22	21	16	10	6	4	33	31	
37,680	3.997	70	41	36	20	16	10	6	33	32	
37,761	4.013	56	36	36	28	20	13	8	33	32	
37,843	4.061	39	26	26	20	12	8	5	33	32	km 37 = 904m
38,000	4.124	35	21	18	12	8	6	4	33	33	
38,081	4.124	44	27	23	14	8	5	4	33	32	
38,163	4.108	28	17	15	9	7	5	3	33	33	
38,240	4.100	34	21	18	12	7	4	3	33	33	
38,320	4.116	29	17	15	9	5	4	3	33	32	
38,400	4.124	21	14	12	7	5	3	2	33	33	
38,480	4.116	32	19	16	11	6	4	3	33	33	
38,560	4.108	30	20	17	11	6	4	3	33	34	
38,640	4.005	74	49	41	28	17	9	3	33	34	
38,719	4.100	13	10	9	8	7	5	4	33	34	
38,799	4.124	11	9	8	7	6	5	4	33	34	
38,880	4.116	13	11	10	9	8	7	5	33	34	
38,960	4.140	8	7	6	6	5	4	3	33	34	km 38 = 1000m
39,040	4.124	12	9	8	6	6	5	4	33	34	
39,122	4.116	11	9	8	7	6	5	4	33	34	
39,201	4.155	14	11	10	9	7	6	4	33	34	
39,281	4.148	13	11	10	10	8	7	5	33	34	
39,362	4.155	11	9	8	7	6	5	4	33	34	
39,442	4.132	12	10	9	9	7	7	5	33	34	
39,521	4.124	10	8	7	6	5	4	3	33	34	
39,600	4.108	16	14	13	12	10	9	7	33	34	
39,681	4.069	10	8	7	7	6	5	4	33	35	
39,760	4.084	12	9	8	7	6	5	4	33	35	
39,841	4.076	17	13	12	10	8	7	5	33	34	
39,920	4.076	16	14	13	10	9	8	6	33	34	km 39 = 1000m
40,000	4.100	10	8	7	6	4	4	3	33	34	
40,081	4.100	7	5	4	4	3	3	2	33	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
40,160	4,092	9	6	5	4	4	3	2	33	34	
40,241	4,163	9	7	6	5	5	4	3	33	34	
40,321	4,116	16	11	10	10	9	8	6	33	34	
40,402	4,140	12	8	7	7	6	6	5	33	34	
40,483	4,140	11	8	7	6	5	4	3	33	34	
40,560	4,108	17	11	10	8	6	5	3	33	34	
40,642	4,155	10	8	7	6	5	4	3	33	33	
40,723	4,140	13	11	10	9	8	7	5	33	34	
40,800	4,092	13	9	8	7	6	5	4	33	34	
40,881	4,132	11	8	7	6	5	4	3	33	34	
40,960	4,053	13	10	9	8	7	6	4	33	34	km 40 = 1107m
41,040	4,076	11	9	8	6	6	5	4	33	33	
41,120	4,100	9	7	6	5	4	4	3	33	33	
41,202	4,084	10	8	7	5	5	4	3	33	34	
41,282	4,100	12	8	7	6	5	4	3	33	33	
41,360	4,108	8	6	5	5	4	3	3	33	33	
41,439	4,140	11	8	7	6	5	4	3	33	33	
41,521	4,124	9	6	5	5	4	4	3	33	33	
41,599	4,148	8	5	4	4	3	3	2	33	34	
41,680	4,116	9	7	6	6	4	4	3	33	34	
41,761	4,084	10	7	6	6	5	4	3	33	34	
41,840	4,148	10	7	6	6	5	4	3	33	34	
41,921	4,116	9	6	5	5	4	4	3	33	34	km 41 = 992m
42,000	4,140	10	8	7	6	6	5	4	33	34	
42,081	4,124	8	7	6	6	5	4	3	33	34	
42,160	4,116	9	6	5	5	4	4	3	33	34	
42,241	4,108	12	9	8	7	6	5	4	33	34	
42,322	4,084	12	8	7	6	6	5	4	33	33	
42,400	4,108	9	6	5	5	4	3	3	33	33	
42,480	4,100	10	6	5	5	4	4	3	33	34	
42,560	4,116	8	6	5	5	4	4	3	33	33	
42,641	4,084	10	7	6	5	5	4	3	33	33	
42,721	4,076	10	8	7	7	5	5	4	33	34	
42,800	4,124	14	10	9	9	7	7	5	33	34	
42,878	4,116	9	7	6	6	5	5	4	33	34	
42,960	4,116	12	9	8	7	6	6	4	33	34	km 42 = 1000m
43,040	4,116	11	9	8	7	6	5	4	33	34	
43,120	4,108	13	9	8	6	6	5	4	33	34	
43,200	4,108	13	9	8	7	6	5	4	33	35	
43,282	4,124	11	9	8	7	6	5	4	33	35	
43,360	4,076	10	9	8	7	7	6	4	33	35	
43,420	4,124	13	12	11	10	8	7	5	33	35	
43,521	4,132	10	9	8	7	6	5	4	33	35	
43,560	4,124	8	7	6	5	5	4	3	33	35	
43,600	4,116	9	7	6	5	5	4	3	33	35	
43,682	4,148	10	8	7	6	5	4	3	33	35	
43,763	4,108	11	9	8	7	6	5	4	33	35	
43,843	4,148	11	7	6	4	4	3	3	33	35	
43,920	4,148	9	7	6	5	4	3	3	33	35	km 43 = 963m
44,000	4,140	13	8	7	6	5	4	3	33	35	
44,092	4,132	13	8	7	6	4	3	3	33	35	
44,163	4,108	15	10	9	8	6	5	3	33	35	
44,242	4,116	15	10	9	7	6	5	4	33	35	
44,321	4,124	7	5	4	4	3	3	2	33	35	
44,402	4,100	15	10	9	8	7	5	4	33	35	
44,483	4,100	10	7	6	6	5	4	3	33	35	
44,563	4,092	15	12	11	9	8	7	5	33	35	
44,642	4,124	13	9	8	7	6	5	4	33	35	
44,722	4,116	14	11	10	9	8	7	5	33	35	
44,800	4,116	10	8	7	6	6	6	5	33	35	
44,881	4,108	12	10	9	8	7	7	5	33	34	
44,961	4,132	11	8	7	7	6	5	4	33	35	km 44 = 1043m
45,040	4,100	9	6	5	4	4	3	2	33	35	
45,120	4,124	9	8	7	7	5	4	3	33	35	
45,200	4,132	11	9	8	7	6	5	4	33	35	
45,281	4,108	9	6	5	4	4	3	2	33	35	
45,363	4,092	11	8	7	6	6	5	4	33	35	
45,442	4,084	10	9	8	8	6	6	5	33	35	
45,520	4,100	15	12	11	9	8	7	5	33	35	
45,600	4,084	13	10	9	8	7	6	5	33	35	
45,660	4,124	9	7	6	5	4	4	2	33	35	
45,760	4,108	11	6	5	5	4	3	2	33	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
45,841	4,084	10	7	6	5	4	3	3	33	35	
45,924	4,100	13	9	8	8	6	5	4	33	35	km 45 = 1000m
46,011	4,058	16	11	9	8	7	6	4	31	34	
46,080	4,121	12	8	7	6	5	4	3	31	34	
46,160	4,098	13	8	8	8	6	5	4	31	34	
46,243	4,090	13	9	7	6	5	4	3	31	34	
46,321	4,113	9	6	5	4	4	3	3	31	34	
46,401	4,098	11	9	7	6	5	4	3	31	34	
46,481	4,106	9	7	6	5	4	4	3	31	34	
46,563	4,113	7	5	4	3	3	3	2	31	34	
46,642	4,106	8	4	4	3	3	2	2	31	34	
46,723	4,129	8	6	5	4	3	3	2	31	34	
46,802	4,113	10	7	6	5	4	4	3	31	35	
46,880	4,082	15	10	8	7	5	5	4	31	35	
46,961	4,090	12	8	7	7	6	5	4	31	35	km 46 = 1006m
47,000	4,106	12	7	6	6	5	5	4	31	35	
47,081	4,098	16	12	10	9	8	7	5	31	35	
47,161	4,082	14	10	8	7	6	5	4	31	35	
47,241	4,098	18	13	12	12	9	7	5	31	35	
47,323	4,019	13	9	7	6	5	4	3	31	35	
47,403	4,074	18	12	11	9	7	6	4	31	35	
47,483	4,082	13	9	9	8	7	6	4	31	35	
47,560	4,090	13	10	9	8	7	5	4	31	35	
47,639	4,066	14	11	10	9	7	6	4	31	35	
47,720	4,058	13	8	7	7	6	4	3	31	35	
47,803	4,051	10	8	7	6	5	4	3	31	35	
47,880	4,058	10	6	6	5	4	4	3	31	35	
47,961	4,035	10	8	8	6	6	5	4	31	35	km 47 = 1013m
48,000	4,066	9	6	5	5	4	4	3	31	35	
48,081	4,027	11	8	7	7	5	4	3	31	34	
48,161	4,058	9	6	5	4	4	4	3	31	34	
48,241	4,027	8	6	5	4	4	3	2	31	35	
48,322	4,011	11	8	7	6	5	4	3	31	34	
48,403	3,925	11	8	6	5	4	4	3	31	34	
48,480	4,043	11	8	8	7	5	4	3	31	34	
48,561	4,004	12	7	6	5	4	3	2	31	35	
48,642	3,949	9	5	5	5	4	3	3	31	34	
48,721	4,004	11	7	6	5	4	3	3	31	34	
48,801	3,941	14	8	6	6	5	4	3	31	34	
48,880	4,035	9	6	6	5	4	2	2	31	34	
48,961	4,074	7	3	3	2	2	1	1	31	35	km 48 = 993m
49,041	4,066	10	5	4	3	2	2	1	31	34	
49,120	4,090	7	5	4	3	3	2	1	31	34	
49,202	4,082	9	5	4	4	3	2	1	31	34	
49,282	4,051	14	7	7	6	5	4	3	31	34	
49,363	4,058	12	6	6	6	5	4	3	31	34	
49,443	4,058	10	6	5	4	4	3	2	31	34	
49,520	4,082	7	5	4	3	3	3	2	31	34	
49,601	4,058	11	6	5	4	3	3	2	31	34	
49,681	4,090	11	5	5	4	3	3	2	31	34	
49,763	4,098	7	4	4	3	3	2	2	31	34	
49,842	4,106	9	5	5	5	3	3	2	31	34	
49,923	4,098	9	5	5	4	3	3	2	31	34	km 49 = 1000m
50,001	4,058	12	6	6	6	4	3	2	31	34	
50,080	4,058	10	6	6	5	4	3	2	31	34	
50,162	4,058	12	8	7	5	4	3	2	31	34	
50,242	4,035	9	5	5	4	3	3	2	31	34	
50,322	4,035	9	6	5	5	4	3	2	31	34	
50,403	4,043	14	11	10	8	7	6	4	31	34	
50,480	4,035	12	7	5	5	4	3	3	31	34	
50,560	4,058	18	8	8	6	6	5	4	31	34	
50,641	4,019	16	10	7	6	5	5	3	31	34	
50,722	4,004	15	7	7	6	5	4	3	31	34	
50,801	4,035	15	9	8	7	6	4	3	31	34	
50,882	3,996	14	10	8	7	6	5	3	31	35	
50,962	3,988	17	12	9	7	6	5	4	31	35	km 50 = 1000m
51,041	4,074	13	9	8	7	6	5	4	31	35	
51,122	4,027	18	12	10	9	7	6	4	31	35	
51,200	3,980	15	10	8	7	6	4	3	31	35	
51,278	3,972	14	8	7	6	5	4	3	31	35	
51,359	4,058	12	9	7	5	5	4	3	31	35	
51,439	4,027	17	9	8	7	6	5	4	31	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
51,518	4.051	15	10	9	8	7	6	4	31	35	
51,600	4.043	14	9	7	6	5	4	3	31	35	
51,683	3.996	13	9	8	7	6	5	4	31	35	
51,762	4.051	17	11	9	8	7	6	4	31	35	
51,842	4.043	15	10	9	8	6	5	4	31	35	
51,920	4.011	13	8	6	6	5	4	3	31	35	km 51 = 1000m
52,006	3.941	13	8	7	7	5	4	3	31	35	
52,081	3.980	16	9	8	8	6	5	3	31	35	
52,161	4.011	12	7	6	6	4	4	3	31	35	
52,242	4.058	15	10	8	7	6	5	4	31	35	
52,322	4.082	17	10	9	8	7	6	4	31	35	
52,400	4.074	15	10	9	7	6	6	4	31	35	
52,480	4.035	16	12	10	9	7	6	4	31	35	
52,562	4.066	16	12	11	9	8	6	5	31	35	
52,643	4.019	14	10	8	7	6	5	4	31	35	
52,723	4.090	16	11	9	8	7	6	4	31	36	
52,800	4.035	9	6	6	5	5	4	3	31	36	
52,881	3.972	15	11	8	7	6	5	4	31	36	
52,962	3.988	14	9	7	6	5	5	3	31	36	km 52 = 1000m
53,042	4.043	12	6	6	5	5	4	3	31	36	
53,122	4.035	14	12	10	9	6	5	3	31	36	
53,200	4.066	12	8	7	6	5	5	3	31	36	
53,280	4.058	12	6	5	4	4	3	2	31	36	
53,361	4.051	10	6	6	5	4	3	2	31	36	
53,440	4.019	12	8	7	6	5	4	3	31	36	
53,520	4.051	12	7	7	6	4	3	2	31	36	
53,602	4.019	17	13	11	9	7	5	4	31	36	
53,681	3.956	16	11	10	8	6	5	3	31	36	
53,762	3.972	40	34	30	23	17	12	7	31	36	
53,840	4.004	26	20	17	13	10	7	5	31	35	
53,923	4.035	24	18	15	12	9	7	4	31	36	km 53 = 1000m
54,000	3.909	22	18	16	13	10	8	5	31	36	
54,080	3.964	22	17	16	12	10	7	4	31	36	
54,160	3.980	15	10	9	7	6	4	3	31	36	
54,240	4.027	10	7	6	5	4	3	2	31	36	
54,321	4.058	9	5	5	4	2	2	1	31	35	
54,400	4.019	15	9	8	6	4	3	2	31	35	
54,477	4.027	9	3	3	3	2	1	1	31	36	
54,557	4.035	8	3	3	2	2	1	0	31	35	
54,637	4.058	10	4	4	3	2	2	1	31	35	
54,718	4.043	10	5	5	4	3	3	2	31	36	
54,800	4.027	11	6	5	5	4	3	2	31	35	
54,881	4.019	10	6	6	5	4	3	2	31	35	
54,960	3.972	13	8	7	6	4	3	2	31	35	km 54 = 1000m
55,041	4.019	13	10	8	6	5	4	3	31	36	
55,121	4.035	12	7	7	6	5	4	2	31	36	
55,200	3.972	13	7	6	5	4	3	2	31	36	
55,280	3.925	18	11	10	10	7	5	5	31	36	
55,362	4.027	14	8	7	6	6	6	4	31	36	
55,443	3.941	22	17	15	14	10	8	6	31	36	
55,523	4.043	27	20	16	12	9	7	4	31	35	
55,600	4.011	29	21	19	18	11	8	6	31	35	
55,681	3.933	24	15	15	12	9	6	4	31	35	
55,762	3.917	17	12	10	8	7	5	4	31	35	
55,843	4.011	18	13	11	9	7	6	4	31	35	
55,920	4.043	15	8	8	7	6	5	4	31	35	km 55 = 1000m
56,000	4.004	14	10	8	6	5	4	4	31	35	
56,080	4.110	9	7	6	6	5	4	3	25	31	
56,160	4.118	7	5	5	5	4	3	3	25	31	
56,241	4.073	7	5	5	5	4	3	2	25	31	
56,322	4.095	10	7	6	5	5	4	3	25	31	
56,402	4.088	9	6	6	5	4	3	3	25	31	
56,483	4.125	10	8	7	6	5	4	3	25	31	
56,563	4.073	12	9	9	8	6	5	4	25	31	
56,640	4.095	10	8	7	6	5	4	3	25	31	
56,721	4.065	16	12	11	11	7	6	4	25	31	
56,800	4.020	9	7	6	5	4	3	2	26	31	
56,879	4.058	10	8	7	6	5	4	3	26	31	
56,959	4.065	10	8	7	6	5	4	3	26	31	km 56 = 1000m
57,039	4.058	10	8	7	7	5	4	3	26	31	
57,119	4.043	14	12	11	9	7	7	4	26	31	
57,200	4.065	11	9	8	7	6	5	4	26	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
57,277	4.058	8	6	5	5	4	3	2	26	31	
57,357	4.058	8	6	5	4	3	3	2	25	31	
57,438	4.058	9	6	6	6	4	4	3	26	31	
57,519	4.050	13	11	10	8	7	5	4	26	31	
57,600	4.028	11	9	8	7	6	5	3	26	31	
57,680	4.058	10	8	7	6	5	4	3	26	31	
57,761	4.065	9	7	6	5	4	3	3	26	31	
57,843	4.035	9	7	6	6	4	3	3	26	31	
57,922	4.065	11	9	8	7	5	4	3	26	31	km 57 = 1000m
58,000	4.065	8	7	6	4	4	3	2	26	31	
58,083	4.073	7	6	5	4	3	2	1	26	31	
58,161	4.073	14	11	10	9	7	6	4	26	31	
58,242	4.050	21	17	16	13	10	7	5	26	31	
58,400	4.065	10	8	7	6	5	4	2	26	31	
58,483	4.080	5	3	2	2	2	1	1	26	31	
58,563	4.058	8	7	6	5	4	3	2	27	31	
58,640	4.028	9	8	7	6	5	4	3	26	31	
58,720	4.065	8	7	6	6	5	4	3	26	31	
58,801	4.073	7	7	6	5	4	4	3	26	31	
58,881	4.043	13	12	11	10	8	7	5	26	31	
58,960	4.028	7	6	5	4	4	3	3	26	31	km 58 = 1000m
59,040	4.080	7	7	6	5	4	4	3	26	31	
59,121	4.020	11	9	8	7	6	5	4	27	31	
59,202	4.065	10	9	8	7	6	4	3	27	31	
59,282	4.020	24	16	15	11	8	5	4	26	31	
59,363	4.043	19	14	13	10	8	6	4	26	31	
59,443	4.013	18	14	13	10	8	6	4	26	31	
59,520	4.058	12	10	9	7	6	4	3	26	31	
59,599	4.028	15	12	11	10	8	5	4	27	31	
59,680	4.013	16	12	11	10	7	6	4	27	31	
59,762	4.123	15	13	12	10	8	7	5	27	31	
59,841	4.100	12	11	10	8	7	6	4	27	31	
59,922	4.108	14	11	10	9	7	6	4	27	31	km 59 = 1000m
60,000	4.123	10	8	7	6	5	4	3	27	31	
60,080	4.115	9	7	6	5	5	4	3	27	31	
60,161	4.108	11	9	8	7	6	5	3	27	31	
60,241	4.084	9	8	7	6	5	4	4	27	31	
60,320	4.061	25	20	19	17	12	9	6	27	31	
60,400	4.092	10	9	8	7	6	5	4	27	31	
60,483	4.069	16	13	12	10	8	6	5	28	31	
60,563	4.084	17	14	13	10	8	6	4	27	31	
60,643	4.084	10	8	7	6	5	4	3	27	31	
60,717	4.077	12	10	9	8	6	5	3	27	31	
60,797	4.038	11	9	8	7	5	5	3	28	31	
60,880	4.077	13	10	9	7	7	5	4	27	31	
60,961	4.092	8	7	6	5	4	4	3	28	31	
61,039	4.061	14	11	10	9	7	5	4	28	31	km 60 = 1113m
61,040	4.069	10	8	7	6	5	4	3	27	31	
61,121	4.100	20	16	15	13	10	7	5	27	31	
61,201	4.084	20	15	14	12	9	6	4	27	31	
61,281	4.053	12	10	9	8	7	5	4	28	31	
61,362	4.015	15	13	12	10	8	7	4	27	31	
61,443	4.046	22	19	18	16	11	8	6	27	31	
61,522	4.084	17	14	13	10	8	6	4	27	31	
61,600	4.077	28	22	21	16	12	9	6	27	31	
61,680	3.976	18	15	14	11	9	7	5	28	31	
61,762	4.084	15	12	11	10	8	6	4	28	31	
61,842	4.100	11	9	8	7	6	5	3	28	31	
61,922	4.084	10	9	8	8	6	5	3	27	31	km 61 = 1000m
62,000	4.069	12	10	9	8	6	5	4	28	31	
62,080	4.030	29	23	22	18	13	9	5	27	31	
62,161	4.077	19	16	15	12	9	6	4	28	31	
62,242	4.069	16	13	12	9	7	6	4	27	31	
62,322	4.061	18	11	10	8	6	5	4	28	31	
62,403	4.092	12	9	8	6	5	4	3	28	31	
62,477	4.092	18	15	14	12	9	7	4	28	31	
62,558	4.077	17	13	12	10	7	6	4	28	31	
62,638	4.053	11	9	8	8	6	5	3	28	31	
62,722	4.053	11	8	7	6	4	3	2	28	31	
62,800	4.046	13	11	10	8	7	5	3	28	31	
62,881	4.053	15	13	12	10	8	6	4	28	31	
62,962	4.046	27	20	19	17	12	8	5	28	31	km 62 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
63,040	4.100	10	9	8	7	6	4	4	28	31	
63,121	4.069	21	17	16	15	11	8	5	28	31	
63,201	4.061	17	14	13	11	9	7	5	28	31	
63,282	4.077	14	11	10	8	6	5	3	28	31	
63,362	4.053	14	12	11	9	7	5	3	28	31	
63,438	4.077	15	13	12	10	8	6	4	28	31	
63,518	4.077	10	8	7	6	5	3	2	28	31	
63,598	4.084	14	11	10	9	7	5	3	29	31	
63,679	4.100	13	10	9	8	7	5	3	29	31	
63,760	4.077	12	10	9	8	7	5	4	28	31	
63,841	4.100	15	13	12	10	8	7	5	28	31	
63,921	4.100	11	9	8	8	6	5	4	28	31	km 63 = 1000m
64,000	4.077	12	11	10	8	7	6	4	29	31	
64,080	4.038	15	13	12	9	8	7	5	28	31	
64,161	4.061	20	13	12	10	7	6	4	28	31	
64,241	4.053	16	13	12	10	8	6	4	29	31	
64,321	4.061	11	10	9	8	7	6	4	29	31	
64,402	4.077	15	12	11	9	8	6	4	29	31	
64,482	4.053	13	11	10	8	7	6	4	29	31	
64,563	4.061	16	13	12	9	8	6	4	29	31	
64,640	4.053	17	14	13	11	9	7	5	29	31	
64,720	4.069	12	10	9	8	7	6	4	29	31	
64,800	4.061	18	15	14	12	9	6	5	29	31	
64,881	4.069	20	17	16	14	11	8	5	29	31	
64,962	4.046	13	12	11	10	7	6	4	29	31	km 64 = 1000m
65,038	4.053	12	11	10	8	7	5	4	29	31	
65,119	4.084	11	9	8	7	5	4	3	29	31	
65,199	4.061	14	11	10	8	7	6	3	30	31	
65,282	4.053	11	8	7	6	5	4	3	29	31	
65,361	4.053	13	10	9	8	6	4	3	30	31	
65,441	4.053	15	11	10	8	6	5	3	30	31	
65,521	4.069	12	10	9	7	5	4	3	30	31	
65,603	4.061	15	10	9	8	6	4	3	30	31	
65,678	4.092	14	11	10	9	7	6	4	30	31	
65,758	4.053	23	16	15	12	9	7	4	30	31	
65,842	4.069	12	10	9	8	6	5	3	30	31	
65,920	4.069	16	12	11	9	7	5	4	30	31	km 65 = 1000m
66,000	4.053	14	11	10	8	7	6	4	30	31	
66,080	4.038	20	16	15	13	10	8	5	30	31	
66,161	4.053	13	10	9	7	6	4	3	30	31	
66,241	4.092	10	8	7	6	5	4	3	30	31	
66,322	4.038	28	17	16	13	9	6	4	30	31	
66,403	4.069	13	10	9	8	6	5	3	30	31	
66,478	4.077	10	8	7	5	5	4	3	30	31	
66,558	3.976	8	7	6	5	4	4	3	30	31	
66,639	4.038	8	6	5	4	4	3	2	30	31	
66,719	4.030	11	7	6	5	4	3	3	30	31	
66,801	4.038	9	7	6	6	4	4	3	30	31	
66,881	4.038	18	14	13	11	8	6	4	30	31	
66,961	4.046	15	11	10	8	6	4	3	30	31	km 66 = 1000m
67,037	4.015	7	5	4	3	3	3	2	30	31	
67,118	4.030	10	7	6	4	4	3	2	30	31	
67,198	3.960	10	6	5	5	4	3	3	31	31	
67,278	4.038	9	8	8	7	5	4	3	30	31	
67,359	4.022	17	12	11	9	7	5	4	30	31	
67,441	3.968	14	9	8	7	6	4	3	31	31	
67,520	4.015	12	9	8	6	5	3	2	31	31	
67,597	3.953	37	22	21	16	10	7	4	31	31	
67,678	3.991	19	16	15	12	10	8	5	31	31	
67,760	3.960	24	16	15	11	8	6	4	30	31	
67,840	4.038	9	7	6	5	4	3	2	31	31	
67,921	4.038	10	8	7	6	5	4	3	31	31	km 67 = 1000m
68,000	4.069	7	6	5	3	3	3	2	31	31	
68,082	4.007	31	20	19	16	10	6	4	31	31	
68,162	3.991	26	18	17	16	9	6	4	31	31	
68,238	3.922	36	25	24	17	11	7	4	31	31	
68,319	3.976	16	11	10	8	7	5	3	31	31	
68,399	3.991	16	12	11	10	7	6	4	31	31	
68,480	4.022	10	9	8	6	6	5	3	31	31	
68,559	4.038	11	8	7	5	5	4	3	31	31	
68,642	4.038	10	8	7	6	5	4	3	31	31	
68,720	4.046	10	8	7	6	4	4	3	31	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
68,801	4.015	11	8	7	7	5	4	3	31	31	
68,882	4.046	14	11	10	10	8	6	4	31	31	
68,963	4.030	21	15	14	12	8	6	4	31	31	km 68 = 994m
69,040	4.061	12	9	8	7	6	4	3	31	31	
69,120	4.061	10	7	6	5	4	3	2	31	31	
69,198	4.053	16	12	11	9	6	4	3	31	31	
69,280	4.053	8	7	6	5	4	3	2	31	31	
69,358	4.046	18	13	12	10	7	6	3	30	31	
69,438	4.022	27	18	17	13	9	6	4	31	31	
69,520	4.038	14	10	9	7	5	3	1	31	31	
69,600	4.061	10	7	6	4	3	2	1	31	31	
69,682	4.030	12	9	8	7	5	3	2	31	31	
69,759	4.030	25	20	16	13	7	4	2	31	31	
69,838	4.046	31	23	21	15	10	6	3	31	31	
69,921	4.046	26	18	16	11	7	4	2	30	31	km 69 = 973m
70,000	4.030	25	15	14	10	6	3	2	31	31	
70,081	4.061	9	5	4	3	2	1	1	30	31	
70,162	4.061	13	8	8	6	4	3	1	31	31	
70,239	4.061	20	15	14	11	8	6	4	31	31	
70,320	4.022	28	23	20	17	13	10	6	31	31	
70,401	4.007	16	12	11	9	7	5	4	31	31	
70,478	4.015	17	11	11	9	7	5	3	31	31	
70,559	4.030	14	9	8	7	5	4	2	31	31	
70,640	4.061	14	8	8	6	5	3	2	31	31	
70,721	4.053	17	12	11	8	6	5	3	31	31	
70,802	4.030	38	22	19	11	6	3	2	31	31	
70,882	4.046	32	19	18	12	8	4	2	31	31	
70,963	3.984	22	13	13	10	7	4	2	31	31	km 70 = 1000m
71,038	4.015	23	14	14	10	6	4	2	31	31	
71,118	4.007	39	23	20	13	7	4	2	31	31	
71,201	4.007	26	17	15	12	7	5	3	31	31	
71,280	4.022	15	7	6	4	3	2	1	31	31	
71,361	3.999	23	13	11	7	4	2	1	31	31	
71,440	4.030	15	9	8	4	2	1	0	31	31	
71,520	4.022	34	20	18	11	5	2	0	31	31	
71,599	4.061	43	27	26	18	11	7	4	32	31	
71,680	4.084	34	22	22	17	11	8	5	32	31	
71,760	4.076	18	10	9	5	4	2	1	32	31	
71,842	4.100	22	14	13	8	5	2	1	32	31	km 71 = 894m
72,000	4.124	24	13	12	9	5	2	1	32	31	
72,081	4.100	37	23	23	16	11	7	4	32	31	
72,161	4.124	20	12	11	7	4	2	1	31	31	
72,238	4.124	15	10	9	9	6	6	4	31	31	
72,319	4.124	24	16	15	11	8	6	4	32	31	
72,400	4.132	20	13	12	9	5	3	1	31	31	
72,477	4.116	25	19	18	15	11	8	5	32	31	
72,558	4.084	32	22	21	16	11	7	4	32	31	
72,639	4.116	21	13	12	8	5	2	1	32	31	
72,720	4.100	15	10	9	6	5	3	2	31	31	
72,800	4.061	33	20	19	14	9	6	4	32	31	
72,881	4.084	19	11	11	8	4	2	0	32	31	
72,960	4.108	24	14	14	11	8	6	4	31	31	km 72 = 1000m
73,040	4.116	21	13	12	10	6	4	2	31	31	
73,120	4.124	16	8	6	4	2	1	0	31	31	
73,201	4.092	20	10	8	3	2	0	0	31	31	
73,282	4.124	22	13	12	7	4	1	0	32	31	
73,358	4.140	11	6	5	4	3	2	1	31	31	
73,438	4.100	30	21	20	16	11	9	5	32	31	
73,521	4.116	25	18	17	13	11	8	6	32	31	
73,601	4.124	18	11	10	7	6	5	3	31	31	
73,682	4.124	14	8	7	5	3	2	1	32	31	
73,760	4.132	17	11	11	8	5	3	1	32	31	
73,838	4.124	22	14	13	8	6	3	1	32	31	
73,918	4.140	20	14	13	10	7	5	3	32	31	km 73 = 1000m
74,000	4.124	11	8	7	6	5	4	2	32	31	
74,081	4.124	28	18	17	13	7	4	2	32	31	
74,162	4.108	25	17	16	12	7	4	2	32	31	
74,242	4.124	21	14	13	10	6	3	2	32	31	
74,318	4.124	20	13	13	9	6	4	2	32	31	
74,398	4.116	22	16	15	12	9	7	4	32	31	
74,479	4.084	37	22	21	15	9	5	2	32	31	
74,562	4.108	25	13	12	8	4	2	0	32	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
74,640	4,092	25	15	14	10	7	4	2	32	31	
74,717	4,069	47	29	26	17	11	7	4	32	31	
74,797	4,005	63	42	41	30	20	13	8	32	31	
74,878	4,076	40	27	26	19	13	9	5	32	31	
74,959	4,116	16	11	10	8	6	5	3	32	31	km 74 = 1000m
75,051	4,076	34	21	21	15	10	6	2	32	31	
75,121	4,092	25	18	17	13	10	8	5	32	31	
75,202	4,100	24	16	15	11	7	4	2	32	31	
75,282	4,100	28	16	15	10	6	4	2	32	31	
75,357	4,045	38	26	25	19	13	9	6	32	31	
75,438	4,069	49	31	30	20	11	5	2	32	31	
75,519	4,069	17	10	9	6	4	3	2	32	31	
75,600	4,116	14	9	8	6	5	4	3	32	31	
75,681	4,084	36	23	22	17	11	7	4	33	31	
75,760	4,124	50	30	28	18	9	4	1	32	31	
75,837	4,132	23	16	15	12	8	6	4	32	31	
75,919	4,076	35	21	19	13	8	4	2	32	31	km 75 = 1000m
76,000	4,045	78	42	40	28	17	10	6	32	31	
76,080	4,234	48	28	26	19	11	5	2	26	33	
76,160	4,274	31	21	18	12	7	5	3	26	33	
76,240	4,258	30	21	19	14	8	4	2	26	33	
76,321	4,227	28	19	17	12	6	3	1	27	33	
76,400	4,148	36	24	23	17	10	6	4	27	33	
76,482	4,219	22	14	13	10	6	4	2	27	33	
76,562	4,242	31	21	20	15	9	5	3	27	33	
76,643	4,234	27	19	18	13	8	5	3	27	33	
76,722	4,242	30	21	20	16	10	8	4	27	33	
76,800	4,211	37	24	22	16	9	6	4	27	33	
76,880	4,140	41	28	27	20	12	8	5	27	33	
76,961	4,148	39	26	24	19	12	7	5	27	33	km 76 = 1000m
77,042	4,219	34	28	25	21	14	9	6	27	33	
77,122	4,195	31	22	22	18	12	8	6	27	33	
77,200	4,132	52	39	37	29	19	12	7	27	33	
77,281	4,132	68	45	36	25	13	8	6	27	33	
77,361	4,140	66	44	41	28	17	11	7	27	33	
77,442	4,124	55	33	31	24	15	10	6	27	33	
77,524	4,163	42	30	29	23	14	9	6	27	33	
77,602	4,148	47	32	30	22	13	8	5	27	33	
77,680	4,171	36	25	24	20	13	9	6	27	33	
77,760	4,171	43	30	29	22	14	9	6	28	33	
77,841	4,195	31	22	21	16	11	7	5	28	33	
77,922	4,179	35	23	23	18	12	8	5	28	33	km 77 = 1000m
78,000	4,179	34	24	23	18	12	8	5	28	33	
78,081	4,179	20	16	15	12	9	7	4	28	33	
78,160	4,195	10	7	7	6	4	3	2	28	33	
78,240	4,219	8	7	6	6	5	3	3	28	33	
78,322	4,227	8	7	6	5	4	3	2	28	33	
78,400	4,219	9	7	6	6	4	4	2	28	33	
78,481	4,195	6	5	4	3	3	3	2	28	33	
78,562	4,195	9	7	6	6	5	4	3	28	33	
78,642	4,195	10	9	8	7	6	5	4	29	33	
78,718	4,187	12	10	9	8	7	6	4	28	33	
78,799	4,211	9	8	7	7	6	5	4	29	33	
78,879	4,187	11	10	9	8	6	6	4	29	33	
78,960	4,227	9	8	7	6	5	5	4	29	33	km 78 = 1000m
79,040	4,195	11	10	9	8	7	6	4	29	33	
79,121	4,171	9	8	7	6	5	5	4	29	33	
79,202	4,179	9	8	7	6	6	5	4	29	33	
79,282	4,187	10	9	8	7	6	5	4	29	33	
79,363	4,195	17	14	13	11	9	7	5	29	33	
79,442	4,124	16	14	13	11	8	7	5	29	33	
79,520	4,155	15	13	12	11	8	7	5	29	33	
79,600	4,171	15	13	12	10	8	6	5	29	33	
79,680	4,132	13	11	10	9	7	6	5	29	33	
79,761	4,187	15	12	11	10	7	6	5	29	33	
79,842	4,171	13	10	9	8	6	6	4	29	33	
79,920	4,155	12	12	11	9	8	6	4	29	33	km 769 = 1000m
80,000	4,148	15	12	11	10	8	6	5	29	33	
80,081	4,171	18	16	15	13	10	7	5	29	33	
80,162	4,179	15	13	12	11	9	7	5	29	33	
80,242	4,155	22	19	18	15	12	9	6	29	33	
80,323	4,155	22	18	17	15	11	9	6	29	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
80,400	4.132	35	26	25	20	14	9	6	29	33	
80,481	4.163	21	16	15	13	10	7	5	29	33	
80,562	4.179	17	14	13	11	8	7	4	29	33	
80,642	4.179	16	13	12	10	8	6	4	29	33	
80,723	4.171	15	12	11	9	7	5	4	29	33	
80,800	4.132	9	8	7	6	5	3	3	30	33	
80,879	4.179	10	8	7	6	5	4	3	29	33	
80,962	4.155	11	9	8	6	5	4	3	29	33	km 80 = 1000m
81,038	4.171	11	9	8	7	5	4	3	29	33	
81,118	4.171	14	10	9	8	6	5	3	29	33	
81,198	4.179	9	7	6	5	4	3	3	29	33	
81,279	4.163	16	13	12	10	7	6	4	29	33	
81,360	4.179	12	8	7	6	4	3	2	29	33	
81,440	4.171	7	7	6	5	4	3	3	29	28	
81,521	4.132	56	30	23	12	6	4	4	29	28	
81,602	4.116	48	27	20	11	6	4	4	28	30	
81,682	4.132	43	26	21	13	7	5	4	28	29	
81,763	4.100	51	28	21	11	5	2	2	28	30	
81,840	4.148	45	26	20	11	5	2	2	28	30	
81,921	4.132	35	19	15	10	6	4	3	28	30	km 81 = 1000m
82,000	4.163	43	21	15	8	5	4	3	28	30	
82,080	4.124	53	29	22	12	7	5	4	28	30	
82,162	4.108	48	28	22	13	7	5	3	28	30	
82,242	4.084	69	35	27	16	9	7	5	28	30	
82,322	4.108	70	38	29	17	11	8	7	28	30	
82,403	4.108	60	28	20	12	8	7	5	28	30	
82,480	4.116	51	26	20	12	7	5	3	28	30	
82,560	4.132	54	30	23	13	7	6	4	28	30	
82,642	4.132	53	27	19	11	7	5	5	28	30	
82,723	4.084	74	35	25	15	11	8	6	28	31	
82,803	4.092	76	42	32	17	9	7	6	28	30	
82,880	4.116	84	46	31	15	8	6	5	28	30	
82,961	4.053	79	36	27	15	10	7	6	28	30	km 82 = 995m
83,040	4.116	69	32	23	13	8	7	5	28	30	
83,120	4.108	78	39	28	15	7	6	4	28	30	
83,200	4.140	55	30	23	14	8	6	5	28	30	
83,280	4.132	53	31	26	16	9	7	5	28	30	
83,361	4.076	83	43	32	19	12	10	7	28	30	
83,442	4.132	67	34	26	15	9	7	6	28	30	
83,523	4.061	83	43	33	19	11	9	7	28	30	
83,603	4.148	40	23	19	12	7	7	5	28	30	
83,681	4.116	54	30	24	15	10	8	6	28	30	
83,762	4.140	33	20	17	12	8	6	5	28	30	
83,842	4.148	46	27	21	14	9	7	5	28	30	
83,923	4.100	74	41	34	21	13	9	7	28	30	km 83 = 1008m
83,999	4.069	75	38	29	16	9	7	5	28	30	
84,080	4.124	71	39	31	18	9	7	5	28	30	
84,161	4.124	65	34	25	15	9	7	5	28	30	
84,240	4.116	59	32	25	15	8	6	5	28	30	
84,321	4.108	72	38	30	18	9	7	5	28	30	
84,401	4.100	69	35	28	17	10	7	5	28	30	
84,483	4.100	65	34	25	14	8	6	5	28	30	
84,560	4.069	90	45	32	17	10	7	6	28	30	
84,638	4.084	69	34	25	15	9	7	5	28	31	
84,717	4.124	75	36	24	13	8	6	5	28	30	
84,798	4.140	64	33	25	11	7	5	4	28	30	
84,879	4.108	79	38	25	16	10	8	6	28	30	
84,959	4.100	64	36	28	17	9	6	4	28	30	km 84 = 988m
85,040	4.084	60	30	22	13	7	6	5	28	30	
85,121	4.084	56	31	23	14	7	3	3	28	30	
85,201	4.069	63	31	23	13	6	4	3	28	30	
85,282	4.021	94	48	37	21	11	7	6	28	30	
85,363	4.084	80	41	31	17	8	5	4	28	31	
85,442	4.100	59	28	21	13	7	6	4	28	31	
85,523	4.100	68	38	28	15	8	5	4	28	30	
85,603	4.124	55	26	19	10	5	4	3	28	30	
85,680	4.092	52	26	19	11	6	5	3	28	31	
85,761	4.116	58	31	22	12	7	5	4	28	31	
85,842	4.108	54	28	21	13	9	6	5	28	31	
85,923	4.108	62	33	26	16	9	6	4	28	30	km 85 = 1016m
86,000	4.108	51	29	25	16	10	7	5	28	31	
86,079	4.108	59	34	28	18	10	7	5	28	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
86,160	4,124	54	27	21	14	9	6	5	28	31	
86,242	4,069	50	29	24	16	10	7	5	28	31	
86,321	4,092	45	24	20	14	9	7	5	28	31	
86,402	4,124	46	27	23	15	10	7	5	28	31	
86,480	4,124	53	30	25	17	11	8	6	28	31	
86,559	4,108	44	23	19	13	9	7	5	28	31	
86,638	4,132	45	27	23	15	9	7	5	28	31	
86,720	4,092	65	34	27	17	10	7	5	28	31	
86,801	4,100	55	31	25	16	10	7	5	28	31	
86,882	4,100	73	37	31	20	12	8	5	28	32	
86,962	4,092	41	22	18	11	7	6	4	28	32	km 86 = 1000m
87,039	4,116	56	30	24	16	11	8	6	28	32	
87,120	4,116	47	25	20	12	8	6	5	28	32	
87,200	4,124	50	27	21	14	8	6	4	28	32	
87,281	4,084	80	42	37	23	13	10	7	28	32	
87,362	4,092	36	22	20	14	7	5	3	28	32	
87,442	4,061	48	32	24	16	10	7	5	28	32	
87,523	4,084	31	16	14	10	7	5	4	28	32	
87,603	4,069	38	23	20	13	8	5	4	28	32	
87,680	4,124	42	24	20	13	8	5	4	28	32	
87,759	4,100	41	19	15	10	6	5	4	28	31	
87,839	4,076	47	24	18	11	7	5	3	28	32	
87,921	4,084	51	27	21	13	8	6	4	28	32	km 87 = 1000m
88,000	4,108	45	24	19	11	6	5	3	28	32	
88,081	4,116	55	30	23	14	8	6	4	28	32	
88,161	4,116	63	30	22	12	6	4	2	28	32	
88,240	4,100	46	25	20	12	7	5	4	28	31	
88,318	4,116	49	27	22	13	6	5	4	28	32	
88,399	4,092	55	28	26	16	8	5	4	28	32	
88,479	4,092	50	27	22	13	8	5	3	28	32	
88,563	4,108	45	26	21	14	7	4	3	28	32	
88,640	4,124	45	26	21	13	7	5	3	28	32	
88,720	4,100	41	21	17	11	6	4	3	28	32	
88,802	4,124	49	28	23	14	7	5	4	28	32	
88,882	4,100	62	30	20	10	5	3	3	28	32	
88,963	4,069	89	50	40	23	12	7	5	28	32	km 88 = 996m
89,040	4,076	96	52	38	20	10	6	4	28	32	
89,121	4,116	54	29	21	11	6	4	3	28	32	
89,201	4,092	50	26	18	9	3	2	2	28	32	
89,283	4,108	58	30	21	10	5	3	3	28	32	
89,363	4,124	59	31	22	12	6	4	3	28	32	
89,440	4,100	74	40	31	17	9	7	5	28	32	
89,520	4,084	70	39	29	15	7	5	4	28	33	
89,582	4,108	70	37	27	14	7	4	4	28	32	
89,683	4,076	78	45	35	18	8	5	4	28	32	
89,763	4,076	66	38	28	15	8	5	4	28	33	
89,840	4,045	83	44	33	18	9	7	4	28	32	
89,921	4,076	46	26	18	10	7	5	4	28	33	km 89 = 1000m
90,000	4,076	73	38	27	11	4	3	2	28	33	
90,082	4,076	72	37	29	13	5	3	3	28	33	
90,161	4,108	85	42	31	15	8	6	5	28	33	
90,242	4,132	72	43	36	21	9	7	5	28	33	
90,322	4,116	112	52	33	13	4	3	2	28	33	
90,400	4,132	79	43	33	16	5	4	3	28	33	
90,642	4,069	47	28	22	14	8	5	4	28	33	
90,721	4,076	67	33	24	12	8	5	4	28	33	
90,800	4,053	52	25	19	11	6	4	3	31	34	
90,880	4,108	77	36	23	10	4	3	3	31	34	
90,961	4,061	54	26	17	9	4	3	2	31	34	km 90 = 982m
91,040	4,084	28	13	10	6	4	3	2	31	34	
91,120	4,029	73	28	16	7	2	2	2	31	34	
91,200	4,061	70	31	22	10	4	2	2	31	34	
91,281	4,069	56	29	15	6	3	2	1	31	34	
91,361	4,029	90	33	23	7	1	1	1	31	33	
91,440	4,069	90	39	20	7	2	2	2	31	34	
91,522	4,061	65	30	20	9	3	2	2	31	34	
91,602	4,092	63	30	19	8	4	2	2	31	34	
91,681	4,076	51	27	21	10	5	3	2	31	33	
91,762	4,100	40	22	16	9	4	2	2	31	33	
91,842	4,061	70	35	25	11	4	3	2	31	34	
91,920	4,069	64	29	22	11	4	3	2	31	34	km 91 = 1000m
92,003	4,061	48	28	20	10	4	2	2	31	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
92,080	4.021	72	45	24	11	3	1	1	33	35	
92,160	3.997	80	45	23	11	4	3	2	33	35	
92,241	4.061	36	19	11	6	4	2	1	33	35	
92,321	4.053	30	18	10	6	4	2	1	33	36	
92,401	4.069	28	18	12	8	4	2	1	33	36	
92,480	4.069	45	25	14	7	3	2	2	33	36	
92,561	4.037	75	47	24	11	5	3	2	33	36	
92,641	4.053	59	35	20	10	4	2	1	33	36	
92,724	3.982	85	50	29	15	7	4	3	32	36	
92,800	4.076	35	19	11	7	5	3	2	32	36	
92,881	4.069	47	27	16	10	6	4	3	32	36	
92,961	3.990	50	32	22	14	10	6	4	32	36	km 92 = 1000m
93,040	4.045	71	42	26	15	7	2	2	32	36	
93,121	4.069	58	40	24	14	7	4	3	32	37	
93,202	4.029	67	45	28	15	7	4	3	32	37	
93,283	4.029	74	47	31	17	8	4	3	32	37	
93,362	4.092	60	32	18	10	5	3	3	32	37	
93,440	4.069	60	38	23	13	7	3	3	32	37	
93,521	4.061	55	33	18	10	6	3	2	32	37	
93,602	4.061	62	36	21	12	6	4	3	32	37	
93,682	4.076	55	31	17	9	4	2	1	32	37	
93,763	4.061	38	19	10	6	4	2	1	32	37	
93,842	4.061	37	20	11	6	4	3	2	32	37	
93,923	4.061	44	26	15	8	4	2	2	32	37	km 93 = 1000m
94,000	4.076	28	16	10	6	3	2	2	32	37	
94,080	4.069	48	24	14	8	5	3	3	32	37	
94,162	4.029	51	32	18	10	4	1	1	32	37	
94,240	4.029	56	30	18	9	6	3	2	32	37	
94,320	4.037	68	40	21	12	5	3	3	32	37	
94,401	4.021	69	46	28	15	8	3	2	32	37	
94,481	4.037	61	41	24	11	5	3	2	32	37	
94,562	4.013	66	40	24	13	6	2	1	32	37	
94,642	4.029	63	36	22	12	6	4	3	32	37	
94,723	4.037	51	32	20	11	5	3	2	32	37	
94,800	4.005	61	36	20	11	4	2	1	32	36	
94,880	4.076	52	33	19	9	5	2	2	32	36	
94,962	4.076	31	16	9	5	4	2	2	32	37	km 94 = 1000m
95,040	4.092	34	22	11	6	4	3	3	32	36	
95,120	4.037	69	34	17	6	3	2	1	32	36	
95,201	4.061	32	15	8	5	3	2	1	32	36	
95,281	4.084	18	10	5	3	2	1	1	32	36	
95,362	4.092	29	16	8	4	3	2	2	32	36	
95,442	4.076	33	19	10	5	3	2	1	32	36	
95,523	4.069	49	30	16	9	5	3	3	32	36	
95,601	4.069	36	24	14	8	5	2	1	32	37	
95,680	4.076	22	13	7	4	3	2	1	32	36	
95,763	4.053	27	16	8	5	3	2	1	32	36	
95,842	4.045	30	22	13	8	5	3	2	32	36	
95,923	4.053	58	36	20	9	4	2	2	32	37	km 95 = 1000m
96,000	4.053	53	31	16	7	3	2	1	32	37	
96,081	4.045	51	29	16	8	4	2	2	32	36	
96,162	4.029	55	33	17	8	4	2	1	32	37	
96,243	4.037	66	42	24	13	7	3	2	32	37	
96,322	4.076	29	16	8	4	2	1	1	32	37	
96,403	4.076	34	21	13	8	4	2	2	32	37	
96,482	4.045	38	21	12	7	4	2	2	32	37	
96,561	4.076	36	21	12	5	2	1	1	32	37	
96,643	4.076	35	19	10	4	2	2	1	32	37	
96,722	4.061	30	16	8	5	3	2	1	32	38	
96,802	4.005	47	25	16	9	5	3	2	32	37	
96,884	4.053	47	28	17	10	5	2	2	32	38	km 96 = 942m
97,041	4.029	56	35	21	11	5	3	2	32	38	
97,121	4.005	100	56	34	18	10	5	4	32	38	
97,201	3.974	95	46	27	14	7	4	3	32	37	
97,282	4.045	41	23	15	9	5	3	3	32	37	
97,363	4.029	76	47	26	11	5	2	2	32	38	
97,443	4.005	71	41	24	13	6	3	2	32	37	
97,520	4.045	55	33	19	10	6	3	3	32	37	
97,601	4.061	50	29	18	11	7	4	3	32	37	
97,683	4.045	47	26	15	9	6	4	4	32	37	
97,762	3.997	96	65	34	14	5	4	3	32	37	
97,843	4.084	26	14	8	5	3	2	1	32	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
97,923	4.061	30	19	11	6	3	2	1	32	37	km 97 = 1060m
98,000	4.069	51	33	20	11	7	4	4	32	37	
98,000	4.053	53	30	18	11	7	4	4	32	37	
98,081	4.061	35	19	10	5	3	2	1	32	37	
98,161	4.069	34	20	12	6	4	3	2	32	37	
98,241	4.069	29	16	10	6	5	3	2	32	37	
98,323	4.069	25	15	8	4	2	2	1	32	37	
98,400	4.037	29	15	9	5	3	2	1	32	37	
98,482	4.037	33	24	13	7	4	2	1	32	37	
98,560	4.069	30	19	11	7	4	3	2	32	38	
98,621	4.076	22	13	8	6	4	2	1	32	37	
98,720	4.053	49	26	14	8	6	3	2	32	38	
98,800	4.045	41	23	12	7	4	1	1	32	38	
98,881	4.053	29	17	11	6	4	3	2	32	37	
98,962	4.045	44	26	15	8	4	2	2	32	38	km 98 = 1000m
99,040	4.045	47	28	15	7	4	3	3	32	37	
99,121	4.021	82	42	22	8	2	2	1	32	38	
99,202	4.037	59	29	14	6	3	2	1	32	38	
99,282	4.005	74	45	26	11	4	1	1	32	38	
99,360	4.045	72	44	25	10	3	1	1	32	38	
99,440	4.061	36	20	11	5	2	1	1	32	38	
99,520	4.053	49	29	16	7	3	2	1	32	38	
99,603	4.045	35	23	14	8	4	2	2	32	39	
99,681	4.029	79	53	29	13	5	3	3	32	38	
99,762	4.053	40	22	12	6	3	1	1	32	39	
99,841	4.069	41	23	13	6	3	2	1	32	38	
99,923	4.045	52	28	15	7	3	2	1	32	39	km 99 = 1000m
100,000	4.069	36	20	11	6	3	2	1	32	39	
100,082	4.053	52	30	16	9	5	3	2	32	39	
100,162	4.029	51	22	13	6	3	1	1	32	39	
100,243	4.069	20	13	9	7	4	2	1	32	39	
100,323	4.069	44	22	11	5	3	2	1	32	39	
100,400	3.997	67	34	17	9	3	1	1	32	39	
100,481	4.069	37	19	11	6	3	2	1	32	39	
100,560	4.045	56	30	14	5	2	2	1	32	39	
100,642	4.076	38	17	9	4	2	1	1	32	39	
100,720	4.053	64	34	14	5	2	2	1	32	39	
100,800	4.061	51	23	11	5	3	2	2	32	39	
100,881	4.069	27	14	8	4	2	1	1	32	39	
100,962	4.084	32	17	10	6	4	2	1	32	38	km 100 = 1000m
101,041	4.053	44	27	12	5	2	2	1	32	39	
101,123	4.053	46	29	15	7	3	2	1	32	39	
101,201	4.053	32	17	10	6	3	2	1	32	38	
101,280	4.061	51	29	12	4	3	2	1	32	38	
101,360	4.037	63	33	16	7	3	2	1	32	39	
101,441	4.069	39	20	11	7	4	3	2	32	38	
101,522	4.084	39	19	10	5	3	2	1	32	39	
101,600	4.076	37	16	8	4	3	2	1	32	38	
101,680	4.069	33	18	9	4	2	1	1	32	38	
101,760	4.084	24	14	7	3	2	1	1	32	38	
101,841	4.045	59	35	15	5	2	1	1	32	38	
101,921	4.053	48	26	14	7	3	1	1	32	38	km 101 = 994m
102,000	4.061	44	24	13	7	4	2	2	32	39	
102,079	4.076	26	13	7	3	1	1	1	32	39	
102,161	4.061	25	13	7	4	3	2	2	32	39	
102,241	4.029	72	38	20	9	4	2	2	32	38	
102,322	4.037	53	30	13	5	2	1	1	32	38	
102,400	4.053	38	22	13	7	4	2	1	32	39	
102,480	4.037	41	24	13	7	4	2	2	32	39	
102,559	4.029	67	40	20	8	4	2	2	32	39	
102,639	4.045	28	14	8	5	3	2	2	32	39	
102,728	4.037	63	32	17	8	4	2	2	34	39	
102,800	4.061	35	21	12	7	4	2	2	34	39	
102,880	4.053	35	16	10	6	4	2	2	34	39	
102,960	4.053	33	19	9	5	3	2	2	34	39	km 102 = 1010m
103,039	4.053	52	31	16	9	4	3	1	34	39	
103,119	4.045	47	26	16	9	5	3	3	34	39	
103,200	4.037	93	46	23	9	4	2	2	34	39	
103,281	4.045	56	38	20	10	4	2	2	34	39	
103,360	4.053	67	35	19	9	5	2	2	34	39	
103,442	4.029	69	39	19	10	5	3	2	34	39	
103,523	4.021	79	40	14	6	3	2	2	34	39	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
103,603	4.029	60	35	18	10	5	2	2	34	39	
103,683	4.069	31	17	10	7	4	3	2	34	39	
103,760	4.092	26	17	11	8	5	2	2	34	39	
103,841	4.029	51	30	18	10	5	3	3	34	40	
103,922	4.069	48	26	16	9	5	3	2	34	40	km 103 = 990m
104,000	4.053	35	22	15	9	5	3	2	34	39	
104,080	4.021	47	28	15	7	5	3	2	34	40	
104,162	4.037	33	17	11	7	5	3	2	34	40	
104,242	4.013	32	18	11	8	5	3	2	34	40	
104,322	4.029	64	36	20	11	5	3	2	34	40	
104,403	4.069	33	20	12	8	5	3	2	34	39	
104,483	4.045	30	18	11	7	4	3	2	34	40	
104,563	4.069	45	27	16	9	5	3	2	34	39	
104,640	4.045	37	19	14	9	6	3	3	34	40	
104,721	4.069	32	19	14	7	4	3	2	34	40	
104,802	4.069	35	20	15	8	5	2	2	34	39	
104,883	4.076	31	18	12	7	4	2	2	34	39	
104,960	4.069	50	25	16	10	6	3	3	34	39	km 104 = 1014m
105,040	4.084	34	17	12	7	4	2	2	34	39	
105,121	4.084	34	17	11	7	4	2	2	34	39	
105,201	4.084	30	16	10	6	4	2	2	34	39	
105,282	4.092	39	19	12	6	4	2	2	34	39	
105,363	4.076	55	31	18	8	4	2	2	34	39	
105,443	4.029	69	33	18	8	4	2	2	34	38	
105,522	4.076	51	25	16	8	4	2	2	34	38	
105,601	4.053	61	32	19	9	4	2	2	34	38	
105,682	4.037	70	33	20	10	4	2	2	34	38	
105,762	4.021	48	28	19	10	5	2	2	34	38	
105,840	4.053	70	39	23	11	3	2	1	34	38	
105,920	4.061	65	35	22	10	4	2	2	34	38	km 105 = 1000m
106,000	4.053	73	38	25	12	5	2	2	34	37	
106,081	4.029	37	19	13	8	4	2	2	34	37	
106,161	4.013	72	39	23	10	5	2	2	34	37	
106,242	4.053	43	22	13	6	3	2	2	34	37	
106,322	3.997	71	40	22	9	3	1	1	34	36	
106,380	4.037	59	28	14	5	2	1	1	34	36	
106,480	4.061	60	35	21	10	4	2	1	34	36	
106,540	4.037	69	37	23	11	4	2	2	34	36	
106,620	4.076	30	16	12	7	4	2	2	34	36	
106,720	4.053	44	27	18	10	5	2	2	34	36	
106,801	4.053	43	23	14	7	3	2	2	34	35	
106,882	4.053	42	26	18	10	5	3	2	34	35	km 106 = 1038m
107,040	4.005	75	32	14	7	3	1	1	34	34	
107,120	4.013	38	21	13	7	4	2	2	34	34	
107,202	4.045	16	10	6	3	2	1	1	34	34	
107,280	4.013	28	11	7	4	2	2	1	34	34	
107,361	4.061	23	11	7	3	2	2	1	34	33	
107,441	4.061	26	13	8	5	3	2	2	34	33	
107,522	4.021	47	24	15	7	3	2	2	34	33	
107,603	4.084	34	19	12	7	4	2	2	30	33	
107,683	4.076	46	25	16	9	5	2	2	30	33	
107,760	4.084	58	28	17	8	4	2	2	30	32	
107,842	4.100	29	17	11	6	3	2	2	30	33	
107,920	4.076	42	29	17	9	5	3	2	30	33	km 107 = 963m
108,000	4.092	36	20	14	8	5	3	2	30	32	
108,080	4.100	19	12	9	6	4	2	2	30	32	
108,161	4.108	23	14	9	5	3	2	2	30	31	
108,242	4.092	24	16	11	7	4	2	2	30	32	
108,322	4.092	24	18	11	6	3	2	2	30	31	
108,401	4.100	29	19	13	7	4	2	2	30	31	
108,480	4.116	21	14	10	6	4	2	2	30	31	
108,563	4.100	29	18	12	7	5	3	2	30	31	
108,643	4.108	30	18	13	8	5	3	3	30	31	
108,720	4.108	26	16	11	6	3	2	2	30	31	
108,801	4.061	39	23	14	8	4	2	2	30	31	
108,881	4.084	33	18	12	6	4	2	2	30	31	
108,962	4.053	46	34	25	15	7	3	2	30	30	km 108 = 1000m
109,038	4.084	22	17	11	6	3	2	1	30	30	
109,121	4.100	16	11	8	5	3	2	2	30	30	
109,200	4.092	19	13	8	5	3	2	2	30	30	
109,280	4.076	18	14	8	4	2	2	1	30	30	
109,360	4.116	17	13	9	5	2	2	1	30	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
109,441	4.100	19	13	8	4	2	1	1	30	30	
109,522	4.076	26	19	13	8	5	2	2	30	30	
109,603	4.084	48	28	18	9	4	2	2	30	30	
109,681	4.084	38	21	14	7	5	3	3	30	30	
109,762	4.076	26	16	10	5	3	2	2	29	30	
109,840	4.045	26	16	10	5	3	2	1	29	30	
109,918	4.053	29	17	11	6	3	2	2	29	30	km 109 = 1000m
110,000	4.076	22	11	7	4	2	1	1	29	30	
110,081	4.061	19	11	7	4	2	1	1	29	30	
110,162	4.092	44	28	18	8	4	2	2	29	30	
110,242	4.108	32	18	12	6	4	3	3	28	30	
110,320	4.076	31	17	11	6	3	2	2	28	30	
110,400	4.061	28	24	17	9	4	2	2	28	30	
110,480	4.061	49	31	22	13	7	4	3	28	30	
110,557	4.069	46	27	19	9	5	3	2	28	30	
110,640	4.037	47	31	21	10	5	3	2	28	30	
110,722	4.084	33	19	14	8	5	3	3	28	30	
110,799	4.061	69	40	25	11	5	3	2	28	30	
110,882	4.037	58	35	22	9	4	3	2	28	30	km 110 = 972m
110,961	4.076	48	30	21	11	5	3	2	28	30	
111,040	4.037	62	39	28	15	7	3	3	27	30	
111,200	4.066	39	20	15	8	5	3	2	34	56	
111,279	4.104	27	13	9	4	2	2	1	34	56	
111,360	4.104	31	13	9	4	2	2	2	33	56	
111,441	4.073	32	15	10	5	2	2	1	34	56	
111,520	4.089	39	20	14	6	3	3	2	34	56	
111,599	4.081	28	13	9	4	2	2	2	34	56	
111,680	4.104	23	12	8	3	2	2	1	34	56	
111,760	4.120	25	12	8	4	2	2	2	34	56	
111,842	4.066	23	10	8	5	4	3	2	34	56	
111,923	4.104	26	11	8	3	2	2	1	34	56	km 111 = 1000m
112,000	4.104	28	13	9	4	3	3	2	34	56	
112,081	4.089	30	13	9	3	2	1	1	34	56	
112,160	4.112	29	12	8	4	3	2	1	34	56	
112,241	4.112	22	10	6	5	2	1	1	34	56	
112,322	4.112	42	15	9	3	2	2	1	34	56	
112,400	4.112	25	12	8	4	2	2	1	34	56	
112,481	4.089	27	11	7	4	3	2	1	34	56	
112,561	4.112	48	26	17	8	3	2	2	34	56	
112,640	4.112	36	14	9	4	2	2	2	34	56	
112,721	4.104	31	16	12	6	4	2	1	34	56	
112,802	4.058	71	26	16	5	3	2	1	34	56	
112,880	4.073	35	15	10	5	3	3	2	34	56	km 112 = 941m
113,040	4.073	38	17	12	5	3	2	2	35	56	
113,121	4.081	30	13	8	3	2	2	1	35	56	
113,202	4.089	38	16	11	5	3	2	2	34	56	
113,280	4.066	25	12	8	4	3	2	1	35	56	
113,361	3.966	85	33	21	8	4	3	2	35	56	
113,440	4.035	31	14	10	5	4	3	2	34	56	
113,519	4.058	26	13	9	4	3	2	1	34	56	
113,599	4.027	33	16	12	5	3	2	1	35	56	
113,679	4.066	31	15	10	4	2	2	1	34	56	
113,761	4.019	35	17	12	7	4	3	2	34	56	
113,840	4.073	34	16	11	6	4	3	2	34	56	
113,920	4.066	39	19	12	5	3	3	2	34	56	km 113 = 1034m
114,002	4.073	38	15	11	6	3	3	2	34	56	
114,080	4.089	30	14	10	5	2	2	1	34	56	
114,160	4.104	34	15	10	5	3	2	2	34	56	
114,240	4.104	37	14	9	3	2	2	2	34	56	
114,319	4.073	26	12	8	4	2	2	2	34	56	
114,401	4.043	72	30	22	10	4	2	2	34	56	
114,481	4.081	45	22	17	9	4	3	2	34	56	
114,561	4.073	36	18	13	7	4	3	2	34	56	
114,640	4.066	41	16	11	5	3	2	1	34	56	
114,718	4.073	33	15	10	5	3	2	2	34	56	
114,800	4.081	34	16	11	6	4	3	2	34	56	
114,880	4.073	54	26	19	8	2	2	2	34	56	
114,961	4.058	29	13	9	5	3	3	2	34	56	km 114 = 995m
115,040	4.066	45	22	16	7	4	3	2	34	56	
115,120	4.035	27	13	10	5	2	2	1	34	56	
115,200	4.050	30	13	8	2	1	1	1	34	56	
115,281	4.089	36	15	9	3	2	2	1	33	56	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
115,362	4.035	70	34	23	6	4	3	2	33	56	
115,440	4.073	41	21	15	7	5	3	2	34	56	
115,519	4.073	49	24	18	8	3	2	1	34	56	
115,599	4.058	57	29	22	10	6	5	3	34	56	
115,680	4.027	41	17	11	5	2	1	1	34	56	
115,763	4.050	39	16	11	6	4	3	2	34	56	
115,841	4.035	24	11	8	6	4	3	2	34	56	
115,921	4.081	32	14	10	6	4	3	2	34	56	km 115 = 993m
116,000	4.104	27	12	9	5	3	3	2	34	56	
116,083	4.096	32	16	11	6	3	2	2	34	56	
116,161	4.096	27	13	9	6	3	3	2	34	56	
116,241	4.089	24	12	10	6	4	3	2	34	56	
116,320	4.073	23	11	8	6	3	3	2	34	56	
116,401	4.089	28	14	10	5	3	2	2	34	56	
116,481	4.089	32	14	10	5	3	2	2	33	56	
116,561	4.050	47	21	14	5	2	2	1	33	56	
116,642	4.035	56	22	12	4	3	2	2	33	56	
116,720	4.089	27	14	11	6	4	2	2	34	56	
116,802	4.066	54	22	16	8	4	2	2	33	56	
116,880	4.096	32	14	11	6	4	3	2	34	56	
116,960	4.066	31	15	12	7	4	3	2	33	56	km 116 = 1000m
117,041	4.058	31	14	9	4	3	2	2	33	56	
117,120	4.066	32	13	8	3	3	2	1	33	56	
117,200	4.066	23	11	7	3	2	2	1	33	56	
117,280	4.050	29	13	9	4	3	2	1	34	56	
117,360	4.066	29	12	8	4	2	2	1	33	56	
117,440	4.096	28	12	8	4	2	1	1	33	56	
117,521	4.058	28	12	8	5	3	2	2	33	56	
117,600	4.050	30	12	7	3	2	2	1	33	56	
117,681	4.050	57	24	15	6	3	2	2	33	56	
117,760	4.035	39	17	11	5	3	2	2	33	56	
117,840	4.073	28	14	9	5	4	3	2	34	56	
117,918	4.073	26	10	7	3	2	2	1	33	56	km 117 = 985m
118,000	4.081	36	18	13	8	5	5	3	33	56	
118,081	4.058	26	11	8	4	3	3	2	33	56	
118,160	4.096	31	14	10	5	4	3	2	33	56	
118,239	4.081	31	14	10	5	4	3	2	33	56	
118,320	4.081	36	17	13	7	4	3	2	33	56	
118,402	4.066	31	15	11	8	3	2	1	33	56	
118,480	4.073	39	18	13	7	5	3	2	33	56	
118,560	4.096	41	19	12	7	4	2	1	33	56	
118,641	4.089	71	34	25	12	5	3	2	33	56	
118,720	4.089	54	24	16	8	4	3	2	33	56	
118,799	4.096	52	24	17	9	5	4	2	33	56	
118,880	4.073	50	26	20	11	6	4	3	33	56	
118,961	3.696	50	25	21	12	7	5	3	33	56	km 118 = 1000m
119,041	4.096	63	31	24	13	7	4	3	33	56	
119,120	4.096	49	25	18	9	4	3	2	33	56	
119,201	4.112	37	18	14	8	5	4	2	33	56	
119,281	4.104	45	22	16	10	5	2	2	33	56	
119,362	3.996	29	13	10	8	4	3	2	32	56	
119,440	3.966	46	13	9	9	3	3	1	33	56	
119,521	3.996	12	7	6	4	3	2	1	33	56	
119,602	4.073	40	16	12	8	5	3	2	33	56	
119,681	4.096	30	15	12	8	5	4	2	33	56	
119,762	4.104	45	22	16	8	5	3	2	32	56	
119,840	4.073	39	20	13	7	3	2	1	33	56	
119,921	4.089	49	24	18	10	4	2	2	33	56	km 119 = 1000m
120,000	4.096	55	26	19	10	5	3	2	32	56	
120,080	4.035	42	18	13	6	3	2	2	33	56	
120,160	4.012	56	21	13	4	3	2	2	32	56	
120,238	4.035	102	41	22	6	4	3	2	33	56	
120,321	4.019	35	17	13	10	4	3	2	33	56	
120,399	3.989	62	31	20	4	3	2	2	33	56	
120,480	4.043	67	25	16	5	3	2	2	33	56	
120,562	4.073	58	27	18	6	2	1	1	32	56	
120,640	4.050	43	21	14	6	2	2	1	32	56	
120,720	4.043	42	20	15	11	3	1	1	33	56	
120,800	4.019	56	29	25	15	9	5	4	33	56	
120,879	4.050	50	27	25	16	11	7	5	33	56	
120,961	3.996	100	55	50	33	21	14	9	33	56	km 120 = 1011m
121,040	4.088	69	38	30	19	10	8	5	33	54	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
121,120	4.073	79	38	29	15	10	7	5	33	54	início de ponte km 121,180
121,443	4.000	58	34	26	12	8	6	4	33	54	fim de ponte km 121,393
121,519	4.066	53	21	16	8	4	3	3	33	54	
121,600	4.052	56	28	25	16	10	7	4	33	54	
121,677	4.066	57	30	23	14	7	5	4	33	54	
121,758	4.059	62	32	24	12	7	5	4	33	54	
121,838	4.052	55	28	22	14	7	6	3	33	54	
121,917	4.088	58	29	23	11	4	3	2	33	54	
121,998	4.125	51	27	21	11	5	3	2	33	54	km 121 = 1060m
122,080	4.139	40	20	14	7	3	2	2	34	54	
122,160	4.103	48	23	16	7	3	2	2	33	54	
122,240	4.132	47	25	21	11	5	4	3	34	54	
122,321	4.110	47	25	18	11	5	4	3	34	54	
122,400	4.110	38	18	14	7	4	2	2	34	54	
122,480	4.066	59	28	19	5	5	3	2	34	54	
122,560	4.103	32	15	10	5	3	3	2	34	54	
122,640	4.088	39	19	13	6	4	3	2	34	54	
122,720	4.103	36	19	12	6	3	2	2	34	54	
122,801	4.132	21	11	9	6	4	3	1	34	54	
122,880	4.125	24	12	9	6	3	2	2	34	54	
122,961	4.125	25	13	11	7	4	3	2	34	54	
123,040	4.110	23	12	10	7	4	4	3	34	54	km 122 = 1053m
123,040	4.066	25	11	9	6	4	3	2	34	54	
123,120	4.103	22	12	11	7	4	3	3	34	54	
123,200	4.081	22	12	11	7	5	4	3	34	54	
123,282	4.088	37	18	15	10	5	4	3	34	54	
123,362	4.125	27	14	11	7	4	3	3	34	54	
123,440	4.066	35	18	15	9	6	4	3	34	54	
123,519	4.095	32	15	12	6	4	3	2	34	54	
123,600	4.088	25	14	11	7	4	3	2	34	54	
123,681	4.103	31	17	14	9	5	4	3	34	54	
123,762	4.110	25	13	11	7	5	4	3	34	54	
123,842	4.073	46	16	10	6	4	4	3	34	54	
123,920	4.081	43	23	16	8	5	4	3	34	54	km 123 = 948m
124,080	4.117	25	14	12	8	5	4	3	34	54	
124,161	4.110	30	16	13	8	5	4	3	34	54	
124,240	4.110	25	13	12	9	6	4	2	34	54	
124,321	4.110	23	14	13	10	6	4	3	34	54	
124,401	4.117	23	14	13	9	6	4	3	34	54	
124,482	4.110	28	17	16	11	7	5	3	34	54	
124,560	4.088	40	20	18	11	6	4	3	34	54	
124,642	4.081	48	26	24	16	10	6	5	34	54	
124,720	4.095	26	14	13	10	7	5	4	34	54	
124,800	4.110	31	18	16	12	6	5	3	34	54	
124,881	4.103	23	14	13	10	7	5	3	34	54	
124,961	4.117	23	13	13	10	6	5	3	34	54	km 124 = 1000m
125,040	4.073	30	15	14	11	7	5	3	34	54	
125,120	4.103	24	13	12	11	6	4	4	34	54	
125,202	4.125	21	12	11	10	6	5	4	34	54	
125,280	4.110	25	13	12	8	6	4	3	34	54	
125,361	4.103	25	14	13	9	6	4	3	34	54	
125,441	4.095	33	17	14	10	5	3	3	34	54	
125,520	4.103	25	15	14	9	7	5	3	34	54	
125,600	4.110	20	11	10	7	5	4	3	33	54	
125,680	4.110	25	14	13	9	5	4	3	34	54	
125,761	4.103	24	12	11	8	6	5	3	34	54	
125,840	4.117	19	11	10	7	4	3	3	34	54	
125,922	4.095	35	17	13	8	6	5	4	34	54	km 125 = 1000m
126,000	4.103	35	18	15	9	6	5	4	33	54	
126,081	4.088	45	23	19	12	7	5	4	33	54	
126,160	4.059	39	22	18	11	6	5	3	33	54	
126,240	4.073	37	17	13	8	5	4	3	33	54	
126,320	4.073	33	17	14	9	5	4	3	33	54	
126,400	4.081	35	18	15	10	7	5	4	33	54	
126,481	4.125	22	13	12	8	6	4	3	33	54	
126,561	4.088	23	12	11	8	5	3	3	33	54	
126,643	4.095	25	13	13	9	6	4	3	33	54	
126,720	4.095	26	14	13	9	6	4	3	33	54	
126,800	4.088	44	25	22	15	9	6	4	33	54	
126,882	4.110	23	12	11	8	5	4	3	33	54	
126,960	4.088	37	17	15	10	6	4	3	33	54	km 126 = 1040m
127,040	4.073	56	29	24	14	8	5	4	33	54	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
127,040	4.095	45	24	19	11	6	4	4	33	54	
127,120	4.088	37	21	18	13	8	6	4	33	54	
127,202	4.095	52	29	25	15	9	5	4	33	54	
127,280	4.117	15	8	7	6	4	3	3	33	54	
127,360	4.095	19	11	10	8	5	4	3	33	54	
127,440	4.110	18	10	9	7	4	3	2	33	54	
127,520	4.088	28	14	13	10	6	4	3	33	54	
127,602	4.095	17	10	9	7	4	3	2	33	54	
127,680	4.037	21	11	10	8	4	3	3	33	54	
127,760	4.110	20	10	9	6	4	3	2	33	54	
127,840	4.103	21	12	11	9	5	4	3	33	54	
127,920	4.095	17	9	8	5	4	3	2	33	54	km 127 = 963m
128,000	4.073	45	22	16	7	4	3	2	33	51	
128,081	4.052	27	12	10	6	4	3	2	33	51	
128,161	4.066	19	10	8	7	4	3	2	33	51	
128,242	4.073	19	11	10	7	4	3	2	33	51	
128,320	4.081	19	11	10	7	5	4	2	33	51	
128,400	4.073	16	9	8	6	4	3	2	33	51	
128,481	4.066	58	27	17	11	4	3	2	33	51	
128,562	4.022	79	42	34	19	7	4	3	34	51	
128,641	4.030	70	36	29	17	7	4	3	33	51	
128,720	4.037	22	10	8	7	4	3	3	33	51	
128,800	3.935	154	51	25	10	6	5	3	33	51	
128,877	4.008	112	48	29	12	6	4	3	33	51	
128,957	3.971	105	43	25	11	5	4	3	33	51	km 128 = 1000m
129,038	4.030	68	31	21	11	6	5	4	33	51	
129,119	4.022	24	11	10	8	5	4	3	33	51	
129,200	4.037	21	13	11	7	5	4	3	33	51	
129,280	4.044	29	15	12	9	5	4	3	32	51	
129,361	4.044	86	44	32	15	6	4	3	33	51	
129,440	4.000	64	31	20	10	3	2	2	33	51	
129,520	4.059	34	15	12	7	4	2	2	33	51	
129,600	4.059	27	14	13	9	5	3	2	33	51	
129,680	4.088	20	11	10	8	5	4	3	33	51	
129,761	4.066	26	14	13	10	7	5	3	33	51	
129,841	3.993	79	41	33	17	7	5	4	33	51	
129,922	4.022	68	34	27	15	6	4	4	33	51	km 129 = 1004m
130,000	4.044	63	25	18	11	7	5	3	33	51	
130,080	4.052	26	14	13	9	6	4	3	33	51	
130,160	4.052	31	19	17	13	8	5	3	33	51	
130,240	4.044	60	29	22	12	6	4	3	33	49	
130,320	4.037	72	40	28	14	6	4	3	33	49	
130,400	4.059	41	22	18	12	6	4	3	33	49	
130,480	3.971	77	42	38	25	12	7	4	33	49	
130,561	4.059	27	15	14	10	7	5	4	33	49	
130,641	4.037	55	26	21	12	6	4	3	33	49	
130,720	4.073	32	16	14	10	7	5	3	34	49	
130,800	4.066	29	16	15	11	7	5	4	33	49	
130,881	4.059	65	32	26	16	8	5	4	33	49	
130,960	4.022	59	32	27	17	9	6	5	33	49	km 130 = 993m
131,040	4.022	58	31	26	15	8	6	4	33	49	
131,121	4.037	56	23	19	12	7	5	4	33	49	
131,201	4.066	39	21	17	10	7	6	4	34	49	
131,281	4.030	62	36	33	22	12	7	5	33	49	
131,360	4.052	53	26	21	13	8	5	4	33	49	
131,440	4.030	72	39	32	21	12	8	5	33	49	
131,519	4.081	28	15	14	10	6	5	3	33	49	
131,601	4.037	86	43	32	19	9	5	4	33	49	
131,681	4.015	83	42	34	21	10	7	5	33	49	
131,761	4.015	82	42	35	21	10	6	4	34	49	
131,840	4.037	70	36	29	16	8	5	4	33	49	
131,920	4.015	61	31	23	12	6	4	4	34	49	km 131 = 1055m
132,000	4.052	26	13	10	7	4	4	3	34	49	
132,081	4.044	43	17	12	8	5	4	3	34	49	
132,162	4.066	25	12	10	8	5	4	3	33	49	
132,240	4.044	49	24	16	8	5	4	3	33	49	
132,321	4.022	62	33	29	18	9	5	3	34	49	
132,401	4.015	93	46	36	19	8	5	3	34	49	
132,481	4.030	54	30	27	18	9	5	3	34	49	
132,560	4.008	93	45	33	18	9	6	4	34	49	
132,640	4.059	31	17	15	11	7	4	3	34	49	
132,721	4.066	27	15	13	9	6	4	3	34	49	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
132,801	4.008	85	43	34	20	10	6	4	34	49	
132,880	4.052	36	18	16	10	5	3	3	34	49	
132,960	4.044	47	24	18	11	6	4	3	34	49	km 132 = 967m
133,040	4.059	39	24	18	12	6	4	3	34	49	
133,120	4.059	32	18	15	10	6	4	3	34	49	
133,201	4.059	37	19	17	12	7	4	3	33	49	
133,281	4.081	26	15	13	9	6	5	3	34	49	
133,360	4.059	30	16	14	10	5	3	2	34	49	
133,440	4.022	78	40	35	23	12	7	4	34	49	
133,521	3.986	68	34	29	17	9	5	4	34	49	
133,600	4.030	81	43	38	23	12	7	4	34	49	
133,683	4.000	92	52	43	29	16	11	7	33	47	
133,760	4.052	37	22	19	13	8	5	4	34	47	
133,840	4.052	63	31	23	14	8	6	4	33	47	
133,921	4.015	86	41	32	18	10	7	5	34	47	km 133 = 1000m
134,000	3.993	90	49	45	30	17	12	8	33	47	
134,080	4.081	35	23	22	18	12	9	6	33	47	
134,160	4.052	54	33	29	21	12	8	6	34	47	
134,241	3.979	72	43	38	26	17	12	8	33	47	
134,321	3.964	104	53	43	20	11	7	5	33	47	
134,401	4.052	29	18	15	12	9	7	5	33	47	
134,481	3.986	97	52	45	27	15	10	7	33	47	
134,560	3.971	89	46	41	28	17	11	7	33	47	
134,639	4.030	33	18	16	11	6	4	2	33	47	
134,721	4.015	85	35	26	12	4	1	0	33	47	
134,802	4.073	30	17	14	10	5	3	2	33	47	
134,881	3.854	104	62	57	40	25	16	9	33	47	
134,961	3.876	150	85	78	50	28	16	10	34	47	km 134 = 1000m
135,040	4.059	27	14	12	8	4	2	1	33	47	
135,121	4.052	22	10	8	6	3	1	1	33	47	
135,201	4.052	37	21	19	13	7	4	2	33	47	
135,280	4.037	45	24	21	15	8	5	3	33	47	
135,359	4.044	33	16	13	8	4	2	1	33	47	
135,440	4.066	37	21	18	13	7	3	2	33	47	
135,522	4.059	32	16	13	8	3	1	1	33	47	
135,600	4.052	19	10	8	7	5	4	3	33	47	
135,679	4.044	40	22	20	14	8	5	3	33	47	
135,760	4.015	61	28	22	13	7	4	2	33	47	
135,840	4.000	65	35	33	23	13	7	4	33	47	
135,921	4.052	53	29	23	14	6	4	2	33	47	km 135 = 1000m
136,000	4.088	32	18	16	10	5	2	1	32	40	
136,082	4.095	16	8	7	4	3	1	1	32	40	
136,163	4.110	16	8	6	3	1	1	0	32	40	
136,242	4.102	23	13	12	8	4	2	1	32	40	
136,320	3.994	32	23	23	18	12	9	6	32	40	
136,401	4.002	72	41	37	25	14	9	6	32	40	
136,482	4.009	35	19	18	15	8	6	4	32	40	
136,560	4.030	75	42	35	21	11	7	4	32	40	
136,643	4.045	54	29	23	14	8	5	3	32	40	
136,720	4.066	28	14	11	7	4	3	2	32	40	
136,800	4.066	41	21	16	9	4	3	2	32	40	
136,880	4.066	18	9	8	7	4	3	2	32	40	
136,962	4.074	36	20	17	10	6	5	3	32	40	km 136 = 1000m
137,040	4.095	25	12	11	8	5	4	2	32	40	
137,120	4.066	12	8	8	7	6	5	4	32	40	
137,200	4.066	45	25	21	13	5	3	2	32	40	
137,281	4.059	26	14	12	8	5	3	2	32	40	
137,360	4.059	22	11	10	7	4	3	2	32	40	
137,443	4.002	90	51	44	26	13	8	5	32	40	
137,521	4.066	29	16	15	11	7	5	3	32	40	
137,600	4.052	25	14	13	9	6	4	3	32	40	
137,681	4.009	42	24	19	14	7	5	3	32	40	
137,760	4.052	39	20	16	12	9	6	5	32	40	
137,842	4.052	29	16	14	9	6	5	3	32	40	
137,920	4.059	27	16	14	9	5	3	2	32	40	km 137 = 1000m
138,000	4.023	21	12	10	7	5	4	3	32	40	
138,081	4.052	16	7	5	4	3	2	1	32	40	
138,160	4.052	22	11	9	6	5	4	3	32	40	
138,242	4.038	24	12	10	7	5	4	3	32	40	
138,320	4.038	19	10	9	7	5	3	2	32	40	
138,400	4.030	28	16	15	12	9	6	4	32	40	
138,480	4.059	15	8	7	6	5	4	2	32	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
138,560	4.045	15	7	7	5	4	3	2	32	40	
138,643	4.030	29	15	13	9	6	4	3	32	40	
138,722	4.052	18	9	8	5	4	3	2	32	40	
138,800	4.045	17	10	9	6	5	4	4	31	40	
138,883	4.030	30	16	13	7	5	3	2	31	40	
138,960	4.016	28	12	10	7	4	3	2	32	40	km 138 = 1020m
139,040	4.045	15	7	5	4	1	1	0	31	40	
139,120	4.045	20	8	7	4	2	1	1	31	40	
139,200	4.023	37	19	16	10	5	2	1	31	40	
139,280	4.052	34	17	12	6	3	1	1	32	40	
139,361	4.081	27	13	11	7	4	2	1	32	40	
139,440	4.081	28	16	15	12	5	3	2	32	40	
139,520	4.059	17	10	9	8	6	5	4	31	40	
139,600	4.052	19	9	7	5	3	2	1	32	40	
139,683	4.030	33	18	16	9	4	2	1	31	40	
139,760	4.052	18	11	11	9	7	6	4	31	40	
139,840	4.002	33	19	17	11	6	4	3	31	40	
139,921	4.030	29	14	11	6	3	1	1	31	40	km 139 = 1025m
140,000	4.038	24	13	11	8	4	3	1	32	40	
140,080	4.030	19	10	9	7	5	4	3	31	40	
140,160	4.045	30	16	13	9	4	2	1	31	40	
140,241	3.994	54	28	23	14	6	4	3	31	40	
140,320	4.002	47	27	24	16	10	7	5	32	40	
140,400	3.994	57	34	31	22	14	10	6	32	40	
140,480	4.023	29	15	13	9	5	4	3	32	40	
140,563	4.045	34	18	16	10	5	3	1	32	40	
140,641	3.994	53	28	26	18	11	7	5	32	40	
140,720	4.038	51	26	21	14	7	3	1	32	40	
140,800	4.023	51	28	24	16	9	5	3	32	40	
140,880	3.987	60	32	27	18	10	6	4	32	40	
140,962	4.030	39	17	11	5	2	1	1	32	40	km 140 = 965m
141,040	3.973	61	29	23	13	6	3	1	31	40	
141,123	4.038	21	8	6	5	3	2	1	31	40	
141,201	3.994	57	30	24	14	7	5	3	31	40	
141,280	4.038	19	11	10	8	7	6	4	31	40	
141,360	4.023	21	10	8	5	2	1	1	31	40	
141,440	4.016	27	14	11	7	4	2	1	31	40	
141,520	4.052	30	17	14	9	4	2	1	31	40	
141,600	4.059	22	12	10	8	5	3	2	31	40	
141,682	4.059	18	9	7	4	2	1	1	31	40	
141,760	4.088	13	6	4	3	1	1	1	31	40	
141,840	4.066	25	12	9	5	3	2	1	31	40	
141,920	4.038	44	20	14	8	5	4	3	31	40	
142,002	4.052	33	17	15	10	6	4	3	31	40	
142,080	4.023	49	26	22	14	8	5	3	31	40	km 141 = 1090m
142,082	4.045	32	19	17	11	8	5	3	31	40	
142,160	4.030	43	23	20	13	7	4	2	30	40	
142,239	4.052	45	28	25	17	8	4	2	31	40	
142,321	4.059	41	22	18	10	4	3	2	30	40	
142,400	4.052	33	17	15	10	6	4	2	30	40	
142,481	4.052	17	10	10	7	5	3	2	30	40	
142,560	4.023	45	25	21	14	7	5	4	31	40	
142,640	4.038	27	16	14	9	7	5	3	31	40	
142,721	4.023	30	17	15	10	7	5	4	30	40	
142,800	3.973	84	46	35	19	8	5	3	31	40	
142,881	3.937	30	17	15	10	6	4	3	30	40	km 142 = 915m
143,040	3.922	52	27	23	14	8	4	2	30	40	
143,120	3.908	89	48	37	21	10	6	4	30	40	
143,200	3.944	88	44	32	17	9	5	3	30	40	
143,280	3.908	110	60	42	23	11	6	4	30	40	
143,360	3.922	63	26	20	12	6	4	3	30	40	
143,440	4.016	52	27	22	14	7	4	3	30	40	
143,519	3.973	77	42	33	20	9	6	4	30	40	
143,600	4.038	62	32	24	14	7	4	4	30	40	
143,679	4.030	47	25	20	13	7	5	4	30	40	
143,762	3.951	65	31	25	17	12	9	6	30	40	
143,842	4.002	27	16	14	10	7	6	4	30	40	
143,921	3.987	32	17	15	10	7	5	4	30	40	km 143 = 1057m
144,000	4.066	26	17	15	12	7	4	3	30	44	
144,082	4.102	19	11	9	6	3	2	1	29	44	
144,160	4.009	24	14	12	8	5	4	3	30	44	
144,239	4.081	28	15	13	9	5	3	2	30	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4						DATA: fev/2007			
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
144,320	4,088	28	15	12	8	5	3	2	30	44	
144,400	4,074	30	15	12	8	4	3	2	30	44	
144,480	4,102	17	8	6	3	2	1	1	30	44	
144,560	4,059	17	9	8	5	4	3	2	30	44	
144,640	4,074	20	11	8	5	4	3	2	30	44	
144,722	4,081	11	6	5	4	2	2	2	30	44	
144,803	4,081	15	7	6	5	3	3	2	30	44	
144,881	4,095	13	6	4	3	2	2	1	30	44	km 144 = 950m
145,040	4,117	15	7	5	3	2	2	1	31	44	
145,121	4,153	8	4	4	3	2	1	1	31	44	
145,201	4,160	14	8	6	5	3	2	2	31	44	
145,280	4,139	14	7	6	4	2	2	2	31	44	
145,359	4,124	27	13	10	6	3	2	1	31	44	
145,441	4,110	30	16	13	9	4	3	2	31	44	
145,521	4,153	14	7	6	4	3	2	2	31	44	
145,601	4,110	24	12	10	7	4	3	2	31	44	
145,680	4,081	38	21	18	11	6	4	3	30	44	
145,760	4,124	27	15	13	9	5	3	2	30	44	
145,820	4,124	17	10	9	5	4	3	2	31	44	
145,921	4,124	6	3	3	2	2	2	1	31	44	km 145 = 1000m
146,000	4,139	7	4	3	2	2	2	1	30	44	
146,081	4,088	29	16	12	8	4	3	2	30	44	
146,161	4,102	26	11	8	5	4	3	2	31	44	
146,240	4,110	9	5	5	4	3	2	2	30	44	
146,321	4,052	12	4	4	3	2	2	2	31	44	
146,401	4,102	7	3	3	3	2	1	1	31	44	
146,481	4,110	9	4	4	2	2	1	1	31	44	
146,560	4,124	7	3	3	3	2	1	1	31	44	
146,640	4,088	38	19	12	7	4	3	2	31	44	
146,720	4,045	36	17	10	4	2	2	1	31	44	
146,803	4,088	40	18	10	4	2	1	1	31	44	
146,881	4,095	39	18	13	6	3	2	1	31	44	
146,962	4,110	41	22	14	7	3	2	1	31	44	km 146 = 1000m
147,040	4,081	30	14	7	4	2	2	1	31	44	
147,121	4,095	38	17	10	4	3	3	2	30	44	
147,201	4,066	43	21	13	6	3	2	2	31	44	
147,283	4,095	25	14	8	3	2	3	2	30	44	
147,360	4,139	18	9	7	5	4	3	2	30	44	
147,439	4,117	9	4	4	3	2	2	2	30	44	
147,521	4,088	8	5	4	3	2	2	1	30	44	
147,601	4,102	9	5	4	3	2	2	1	30	44	
147,680	4,102	14	8	7	5	3	2	2	30	44	
147,760	4,074	12	5	5	4	3	2	2	30	44	
147,837	4,102	15	8	8	6	4	3	2	30	44	
147,919	4,081	33	21	18	12	7	4	2	30	44	km 147 = 1000m
148,000	4,059	23	11	10	8	4	3	2	30	44	
148,081	4,102	11	5	5	4	3	2	1	30	44	
148,160	4,088	11	6	5	4	2	2	1	30	44	
148,240	4,102	13	7	6	4	3	2	2	30	44	
148,321	4,117	14	7	6	5	3	2	2	30	44	
148,401	4,102	16	10	8	6	4	3	2	30	44	
148,480	4,052	43	21	17	9	5	4	2	30	44	
148,560	4,038	53	34	19	10	6	3	2	29	47	
148,641	4,045	51	33	21	12	5	3	3	30	47	
148,721	3,922	90	30	22	10	3	3	2	30	47	
148,801	4,030	43	24	18	10	6	3	2	30	47	
148,881	4,074	14	8	8	6	4	3	2	30	47	
148,961	4,052	15	8	8	6	4	2	2	30	47	km 148 = 986m
149,040	4,081	18	9	7	5	3	2	1	30	47	
149,120	4,102	8	4	4	3	2	2	1	30	47	
149,201	4,095	11	6	6	5	3	2	1	30	47	
149,280	4,059	15	9	7	6	3	3	2	30	47	
149,361	4,110	13	7	6	4	3	2	2	30	47	
149,441	4,110	12	6	6	4	3	2	2	30	47	
149,520	4,045	15	9	7	6	4	3	2	30	47	
149,602	4,095	15	9	8	5	3	2	2	29	47	
149,680	4,102	13	8	7	5	3	2	2	30	47	
149,762	4,117	10	7	6	4	3	2	1	30	47	
149,840	4,131	13	7	7	5	4	2	1	30	47	
149,919	4,095	12	6	5	4	3	2	2	29	47	km 149 = 1013m
150,000	4,185	16	10	9	7	5	3	2	22	30	
150,081	4,199	13	9	8	6	5	4	3	22	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
150,161	4,185	11	7	6	4	3	2	2	22	30	
150,241	4,185	11	7	6	4	3	3	2	22	30	
150,321	4,177	14	10	9	7	4	3	2	22	30	
150,400	4,170	17	11	10	8	6	4	3	23	30	
150,480	4,163	17	11	9	7	4	3	2	22	30	
150,560	4,120	52	31	20	12	6	4	3	23	30	
150,641	4,141	41	24	19	12	7	4	2	23	30	
150,721	4,156	24	16	15	11	6	4	3	23	30	
150,801	4,127	30	18	16	12	7	5	3	23	30	
150,880	4,134	16	10	10	8	5	4	2	23	30	
150,959	1,826	9	5	4	3	1	1	0	23	30	km 150 = 1000m
151,039	4,170	16	10	9	7	5	3	2	23	30	
151,119	4,170	15	10	9	7	5	4	2	23	30	
151,200	4,177	20	14	12	10	6	4	2	23	30	
151,280	4,163	23	14	13	9	7	5	4	23	30	
151,361	4,141	36	26	23	16	11	7	5	24	30	
151,441	4,141	45	32	27	18	10	6	4	24	30	
151,520	4,141	39	25	21	14	8	5	3	24	30	
151,601	4,170	28	20	17	12	7	4	3	23	30	
151,680	4,141	38	25	22	15	8	5	3	24	30	
151,761	4,170	12	8	8	6	4	3	2	24	30	
151,840	4,170	17	12	10	7	5	4	3	24	30	
151,921	4,170	28	18	16	12	7	4	3	24	30	km 151 = 1000m
152,000	4,170	21	12	9	7	5	4	3	24	30	
152,081	4,141	35	23	20	14	8	5	4	24	30	
152,161	4,141	21	15	13	10	6	4	2	24	30	
152,240	4,177	11	8	8	7	4	3	2	24	30	
152,320	4,170	12	8	8	6	4	3	2	24	30	
152,401	4,185	13	8	7	6	3	2	2	24	30	
152,481	4,185	17	11	10	8	6	4	3	24	30	
152,560	4,156	13	9	9	7	5	3	2	24	30	
152,641	4,163	13	8	6	5	3	3	2	24	30	
152,721	4,199	12	8	8	5	5	3	2	24	30	
152,800	4,192	13	9	7	5	3	3	2	24	30	
152,880	4,177	10	7	6	5	4	3	2	24	30	
152,959	4,185	9	5	4	3	2	2	2	24	30	km 152 = 1000m
153,039	4,199	12	8	7	6	5	4	3	24	30	
153,120	4,192	12	7	7	5	4	4	2	24	30	
153,201	4,206	9	5	5	4	3	2	1	24	30	
153,280	4,120	9	5	5	4	3	2	2	25	30	
153,361	4,163	12	9	8	6	4	3	2	24	30	
153,440	4,141	15	11	10	7	5	3	2	24	30	
153,520	4,163	14	9	8	7	5	3	2	24	30	
153,600	4,156	19	14	13	10	6	4	2	24	30	
153,682	4,127	22	14	11	7	4	3	2	24	30	
153,762	4,098	16	11	11	8	5	4	3	24	30	
153,840	4,156	16	11	10	8	6	4	3	24	30	
153,921	4,141	15	10	9	8	6	5	4	24	30	km 153 = 1000m
154,000	4,134	17	13	12	9	6	5	3	24	30	
154,080	4,256	23	16	14	9	6	4	3	23	29	
154,161	4,206	19	13	12	9	6	5	3	23	29	
154,240	4,235	16	11	10	7	5	3	2	23	29	
154,321	4,206	17	12	11	9	6	4	3	23	29	
154,400	4,192	20	14	13	10	7	4	3	23	29	
154,480	4,228	15	11	10	8	6	5	4	22	29	
154,560	4,177	17	12	11	9	6	5	3	23	29	
154,640	4,221	20	14	13	11	8	6	4	23	29	
154,720	4,185	18	14	13	11	7	5	3	23	29	
154,800	4,185	22	16	14	11	7	5	4	23	29	
154,879	4,170	20	14	13	11	7	5	4	23	29	
154,960	4,185	18	13	12	9	6	5	4	23	29	km 154 = 1000m
155,040	4,199	16	12	11	8	5	3	3	23	29	
155,121	4,185	19	13	12	9	7	5	4	23	29	
155,201	4,170	27	19	17	12	8	5	4	23	29	
155,280	4,185	20	13	11	8	5	4	3	23	29	
155,359	4,192	19	13	12	9	6	4	3	23	29	
155,438	4,185	26	19	17	12	8	6	4	23	29	
155,520	4,177	22	15	14	11	7	5	4	23	29	
155,602	4,177	23	17	15	12	8	5	4	24	29	
155,680	4,120	24	18	16	12	8	6	4	23	29	
155,761	4,156	24	18	17	12	9	6	4	24	29	
155,841	4,156	29	19	18	13	9	6	5	24	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
155,920	4.141	23	16	16	12	9	6	4	24	29	km 155 = 1000m
156,000	4.185	31	22	20	14	10	7	5	23	29	
156,081	4.185	25	19	18	14	10	7	5	23	29	
156,160	4.156	29	21	19	15	10	7	5	24	29	
156,241	4.163	27	20	18	13	9	6	4	24	29	
156,320	4.170	29	20	19	14	9	6	4	24	29	
156,400	4.163	29	19	17	13	9	6	5	24	29	
156,480	4.170	30	21	20	15	10	7	4	24	29	
156,560	4.120	27	19	18	13	9	6	4	24	29	
156,641	4.170	25	18	17	13	9	6	4	23	29	
156,720	4.149	27	19	17	12	9	6	4	23	29	
156,801	4.177	26	19	17	13	9	6	4	24	29	
156,881	4.177	26	18	16	13	8	6	4	23	29	
156,962	4.192	27	19	17	13	8	6	4	23	29	km 156 = 1000m
157,042	4.156	26	18	17	12	9	6	4	23	29	
157,120	4.163	29	21	19	15	9	6	4	24	29	
157,199	4.177	30	20	17	13	7	5	3	23	29	
157,279	4.192	27	19	17	14	8	6	4	23	29	
157,359	4.213	19	14	13	10	7	5	3	24	29	
157,440	4.192	24	17	15	12	8	6	4	24	29	
157,519	4.141	27	20	18	14	9	6	5	23	29	
157,601	4.177	37	25	23	16	11	7	5	24	29	
157,680	4.185	25	19	17	15	9	7	5	23	29	
157,759	4.149	27	19	18	14	8	6	5	23	29	
157,840	4.156	27	19	17	14	9	6	4	23	29	
157,921	4.170	21	15	14	13	8	6	4	23	29	km 157 = 1000m
158,000	4.149	23	16	14	10	6	4	3	23	29	
158,080	4.185	22	15	14	10	7	5	3	23	29	
158,161	4.170	25	17	15	11	7	5	4	23	29	
158,241	4.156	49	32	26	17	10	6	4	24	29	
158,320	4.156	56	36	30	20	11	6	4	24	34	
158,400	4.221	25	17	15	11	7	5	3	24	34	
158,482	4.221	22	16	14	11	7	4	2	24	34	
158,561	4.156	53	31	23	13	7	4	3	24	34	
158,640	4.206	20	14	13	10	6	5	3	24	34	
158,720	4.170	44	22	17	10	6	4	3	24	34	
158,800	4.163	30	19	17	12	8	5	3	24	34	
158,881	4.170	26	17	14	10	6	4	3	25	34	
158,960	4.199	22	15	14	10	7	5	3	24	34	km 158 = 1000m
159,040	4.163	28	18	15	12	6	4	3	25	34	
159,120	4.163	43	24	17	11	6	4	3	25	34	
159,201	4.156	37	25	22	16	10	7	4	25	34	
159,282	4.177	38	25	21	15	9	6	3	25	34	
159,360	4.141	43	24	15	9	4	3	2	25	34	
159,441	4.185	32	20	16	11	6	4	2	25	34	
159,521	4.199	21	14	13	9	6	4	3	25	34	
159,601	4.170	42	25	19	12	6	3	2	25	34	
159,680	4.170	39	25	21	15	8	5	3	25	34	
159,760	4.141	63	34	22	11	5	4	2	25	34	
159,841	4.098	56	32	26	15	9	5	3	25	34	
159,921	4.134	67	35	22	13	7	4	4	25	34	km 159 = 995m
160,000	4.055	65	38	31	22	8	5	4	25	34	
160,080	4.105	55	36	27	17	8	5	4	25	37	
160,161	4.105	80	45	35	18	10	5	4	25	37	
160,242	4.177	33	21	18	12	8	5	3	25	37	
160,320	4.120	50	29	23	14	8	5	3	26	37	
160,400	4.127	66	38	30	19	9	5	3	25	37	
160,481	4.156	52	30	23	14	7	4	3	25	37	
160,561	4.177	21	13	12	9	6	5	3	26	37	
160,642	4.177	19	12	10	7	5	4	3	25	37	
160,721	4.177	23	14	12	8	5	4	3	25	37	
160,800	4.163	18	12	10	7	5	3	2	26	37	
160,881	4.134	27	15	12	8	4	2	2	26	37	
160,960	4.113	32	20	17	12	7	4	3	26	37	km 160 = 1000m
161,040	4.149	28	15	12	8	4	2	2	25	37	
161,120	4.170	27	15	12	9	6	3	2	26	37	
161,200	4.192	17	10	7	5	3	2	1	26	37	
161,280	4.170	25	12	8	5	3	2	2	25	37	
161,361	4.177	38	22	16	9	4	3	2	25	37	
161,440	4.156	50	29	20	12	5	4	2	25	37	
161,520	4.156	29	17	14	9	5	3	2	26	37	
161,600	4.170	31	17	13	8	4	3	2	26	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
161,681	4.156	37	21	14	8	3	2	1	26	37	
161,761	4.113	34	20	14	7	4	3	2	25	37	
161,840	4.141	33	19	16	10	5	3	2	25	37	
161,921	4.149	37	23	18	11	5	3	2	25	37	km 161 = 1000m
162,000	4.134	48	29	22	12	5	2	2	26	39	
162,081	4.084	30	19	16	11	5	3	2	26	39	
162,162	4.070	51	27	20	10	4	3	2	25	39	
162,240	4.070	42	24	18	11	5	2	2	26	39	
162,320	4.120	33	22	18	14	6	3	2	25	39	
162,400	4.105	52	30	24	16	8	4	3	26	39	
162,481	4.141	55	33	26	18	9	5	3	26	39	
162,561	4.141	30	18	15	10	5	3	3	26	39	
162,640	4.120	42	26	21	14	6	3	3	26	39	
162,720	4.105	61	33	25	14	6	3	2	26	39	
162,801	4.127	53	31	24	14	7	4	3	26	39	
162,880	4.134	25	15	13	9	5	4	3	26	39	
162,960	4.113	68	35	24	12	4	2	2	26	39	km 162 = 1000m
163,040	4.149	10	6	5	4	3	2	2	26	39	
163,120	4.127	22	13	10	6	2	2	1	27	39	
163,200	4.105	36	22	19	12	6	4	3	26	39	
163,280	4.113	35	21	17	11	6	4	3	26	39	
163,361	4.120	42	25	20	13	6	4	3	27	39	
163,441	4.077	52	30	25	14	6	3	2	27	39	
163,523	4.127	27	15	12	8	4	3	2	27	39	
163,600	4.084	46	26	21	13	5	3	2	27	39	
163,680	4.098	40	22	16	9	3	2	2	27	39	
163,760	4.062	45	29	19	9	3	2	1	27	39	
163,840	4.034	54	26	16	8	3	3	2	27	39	
163,920	4.105	45	25	20	12	7	5	3	27	39	km 163 = 1000m
164,000	4.105	29	16	13	9	6	4	3	27	39	
164,082	4.091	21	13	12	8	6	4	2	27	39	
164,160	4.077	45	31	26	16	8	5	3	27	39	
164,242	4.084	51	33	21	13	5	3	2	27	39	
164,320	4.098	23	14	12	8	5	3	2	27	39	
164,402	4.098	24	14	12	9	4	2	1	27	39	
164,481	4.105	19	13	12	9	6	4	3	27	39	
164,560	4.113	18	13	12	9	6	5	3	27	39	
164,640	4.105	23	16	15	12	8	5	4	27	39	
164,722	4.098	23	15	13	10	7	5	4	27	39	
164,800	4.105	15	10	8	6	4	4	3	27	39	
164,882	4.120	10	6	5	5	3	3	2	27	39	
164,962	4.127	12	9	8	6	3	2	1	27	39	km 164 = 1000m
165,040	4.120	18	11	8	5	3	3	2	27	39	
165,120	4.113	11	6	4	4	2	2	1	27	39	
165,201	4.105	8	5	4	4	3	2	2	27	39	
165,281	4.113	10	4	3	2	2	2	1	27	39	
165,361	4.026	17	8	7	5	4	2	2	28	39	
165,440	4.084	15	8	6	4	3	2	2	28	39	
165,518	4.062	11	6	5	4	4	3	2	27	39	
165,601	4.084	12	6	6	4	2	2	1	27	39	
165,680	4.091	14	8	6	3	2	2	1	28	39	
165,759	4.062	11	6	6	4	3	2	2	27	39	
165,841	4.048	10	5	4	4	3	2	1	28	39	
165,921	4.091	13	8	8	7	5	4	2	28	39	km 165 = 1000m
166,000	4.084	12	7	6	5	4	2	1	28	39	
166,082	4.098	19	11	9	6	3	3	2	28	39	
166,163	4.105	17	9	8	6	5	4	3	28	39	
166,242	4.070	16	11	9	7	4	4	2	28	39	
166,320	4.105	16	10	9	7	5	4	2	28	39	
166,400	4.091	16	9	8	6	4	3	2	28	39	
166,481	4.084	14	9	8	6	4	3	2	28	39	
166,561	4.077	20	12	11	7	4	2	2	28	39	
166,642	4.041	39	23	20	13	7	5	3	28	39	
166,720	4.062	26	18	16	12	7	4	3	28	39	
166,800	4.091	23	15	13	10	6	4	3	28	39	
166,880	4.105	19	12	10	6	4	3	2	28	39	
166,960	4.127	26	17	15	11	5	3	2	28	39	km 166 = 1000m
167,040	4.084	27	17	15	10	6	5	3	28	39	
167,121	4.105	20	14	12	8	6	4	3	28	39	
167,201	4.084	18	12	10	7	5	3	3	28	39	
167,282	4.098	20	14	13	10	5	3	3	28	39	
167,360	4.098	21	13	11	8	4	3	3	28	39	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
167,442	4.105	22	15	13	10	5	3	2	28	39	
167,521	4.091	17	12	11	9	5	3	2	28	39	
167,600	4.091	32	17	12	7	4	3	2	28	39	
167,680	4.098	18	11	10	9	7	6	4	28	39	
167,760	4.098	17	10	10	8	4	2	2	28	39	
167,840	4.113	15	8	7	5	4	4	2	28	40	
167,920	4.091	18	11	9	7	4	2	1	28	40	km 167 = 1000m
168,000	4.105	17	10	8	6	3	2	1	28	40	
168,081	4.098	15	9	7	6	3	2	1	28	40	
168,161	4.084	16	8	8	6	4	3	1	28	40	
168,241	4.062	28	17	15	11	7	6	5	28	40	
168,323	4.041	53	28	22	12	6	3	2	28	40	
168,400	4.077	22	13	11	8	5	3	3	28	40	
168,479	4.005	46	26	20	12	5	3	2	29	40	
168,560	4.041	55	32	27	16	7	3	2	28	40	
168,640	4.070	16	8	8	6	4	2	1	28	40	
168,722	4.098	17	10	9	6	4	2	2	28	40	
168,800	4.070	17	10	9	7	6	5	3	28	40	
168,881	4.084	13	8	7	6	4	3	2	28	40	
168,961	4.098	17	10	9	7	5	5	3	28	40	km 168 = 1000m
169,040	4.098	14	8	8	6	4	3	3	29	40	
169,120	4.098	18	12	10	8	4	2	2	28	40	
169,201	4.098	12	6	5	3	3	2	2	28	40	
169,280	4.055	23	14	11	7	4	2	1	28	40	
169,357	4.062	18	10	8	4	2	2	1	28	40	
169,438	4.048	22	13	11	7	4	3	2	28	40	
169,518	4.098	22	13	11	7	4	3	2	28	40	
169,598	4.048	32	19	15	9	5	3	2	28	40	
169,679	4.077	12	7	7	6	4	3	2	28	40	
169,760	4.098	13	7	5	4	3	3	2	28	40	
169,842	4.062	21	11	10	7	4	3	2	27	40	
169,921	4.077	11	6	5	3	2	2	1	28	40	
170,001	4.091	11	7	6	4	3	2	2	28	40	
170,080	4.105	16	9	7	5	4	3	2	27	40	km 169 = 1110m
170,080	4.084	13	6	5	3	2	2	1	28	40	
170,161	4.041	17	11	10	6	3	3	2	28	40	
170,242	4.084	9	5	5	4	3	3	2	28	40	
170,320	4.091	17	10	9	7	4	3	2	28	40	
170,400	4.062	19	12	10	8	5	3	2	28	40	
170,481	4.048	14	8	7	4	3	2	1	28	40	
170,560	4.055	18	8	6	4	3	2	2	28	40	
170,640	4.062	25	14	11	7	4	2	1	28	40	
170,718	4.084	16	10	8	6	3	2	1	28	40	
170,799	4.041	35	20	16	10	6	3	2	28	40	
170,880	4.070	26	15	12	8	4	2	2	28	40	
170,958	4.062	40	22	16	7	3	2	1	29	40	km 170 = 990m
171,040	4.055	14	9	7	4	3	2	1	29	40	
171,120	4.048	11	5	5	3	2	1	1	29	40	
171,202	4.084	10	5	4	2	2	1	1	28	40	
171,280	4.077	12	6	4	3	2	1	1	29	40	
171,361	4.084	28	16	13	9	5	3	2	28	40	
171,440	4.077	20	12	10	7	4	2	2	29	40	
171,520	4.055	15	8	6	4	3	3	2	29	40	
171,599	4.055	14	8	7	5	3	3	2	29	40	
171,680	4.084	19	12	10	6	3	3	2	29	40	
171,761	4.084	19	12	11	8	5	3	2	28	40	
171,841	4.070	15	10	9	7	5	3	2	28	40	
171,920	4.077	19	11	10	8	5	4	3	29	40	km 171 = 1000m
172,000	4.070	15	10	9	9	5	3	2	29	40	
172,080	4.077	14	9	8	6	3	2	1	28	40	
172,161	4.098	22	14	13	10	6	4	3	28	40	
172,242	4.091	13	8	6	4	2	2	1	29	40	
172,320	4.105	21	11	8	6	3	2	2	29	40	
172,401	4.084	39	21	17	10	5	3	2	29	40	
172,482	4.091	19	11	10	7	4	3	2	29	40	
172,560	4.055	47	27	22	13	6	4	2	29	40	
172,641	4.055	50	26	21	11	5	3	2	29	40	
172,721	4.062	43	22	16	9	3	2	1	30	40	
172,800	4.062	33	18	16	11	8	6	4	30	40	
172,882	4.041	54	30	26	16	8	4	3	30	40	
172,961	4.070	14	8	8	7	4	2	2	30	40	km 172 = 1000m
173,040	4.084	15	9	9	7	5	3	2	29	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
173,120	4.077	26	15	14	11	7	4	3	30	40	
173,199	4.084	16	9	8	6	4	3	2	29	40	
173,280	4.105	18	10	8	6	4	3	3	30	40	
173,360	4.091	18	9	8	6	3	3	1	30	40	
173,442	4.062	11	7	6	4	3	3	1	30	40	
173,522	4.041	15	8	7	5	3	2	2	30	40	
173,600	4.084	15	9	9	7	6	4	3	29	40	
173,681	4.070	19	11	11	8	5	4	2	30	40	
173,762	4.062	40	20	14	8	3	3	2	29	40	
173,840	4.041	18	9	6	3	3	2	2	30	40	
173,920	4.062	14	7	5	3	2	2	1	30	40	km 173 = 1000m
174,001	4.055	23	11	8	6	4	3	2	30	40	
174,081	4.084	14	7	7	5	3	3	3	30	40	
174,161	4.077	21	13	11	8	3	2	1	30	43	
174,242	4.026	44	22	14	3	1	1	1	29	43	
174,322	4.062	33	16	13	8	3	2	1	30	43	
174,400	4.055	46	23	17	9	4	2	2	30	43	
174,478	4.070	25	13	9	5	2	2	1	30	43	
174,559	4.062	19	9	7	5	2	1	1	30	43	
174,640	4.077	20	10	8	5	3	3	1	30	43	
174,721	4.091	17	10	9	6	3	2	1	30	43	
174,802	4.055	24	14	11	8	4	3	2	30	43	
174,880	4.077	20	12	10	6	4	3	2	30	43	
174,961	4.062	19	12	12	7	5	3	3	30	43	km 174 = 1020m
175,040	4.062	28	17	14	8	5	3	2	30	43	
175,121	4.070	18	13	12	10	7	5	3	30	43	
175,201	4.070	21	12	10	7	4	3	3	30	43	
175,280	4.070	32	18	14	9	6	5	4	30	43	
175,360	4.048	28	17	15	12	7	5	4	30	43	
175,441	4.019	50	32	27	19	10	5	4	30	43	
175,520	4.034	49	32	20	11	6	3	1	30	43	
175,601	4.048	27	15	12	8	5	3	2	30	43	
175,680	4.026	19	12	11	8	6	3	3	30	45	início de ponte km 175,804
175,761	4.048	17	11	10	8	5	4	3	30	45	
175,920	3.955	70	41	32	21	12	8	6	30	45	km 175 = 1000m
175,999	4.012	49	28	23	15	10	6	5	30	45	
176,080	4.012	46	30	28	19	12	8	5	30	45	
176,160	4.026	34	19	15	9	5	3	3	30	45	
176,240	4.019	13	8	8	6	5	3	2	30	45	
176,321	4.026	19	11	10	6	4	3	2	30	45	
176,401	4.048	18	11	11	9	7	6	5	31	45	
176,482	3.990	62	32	21	11	7	5	4	30	45	
176,561	4.048	35	17	13	7	4	3	2	31	45	
176,639	4.041	38	18	14	9	5	4	3	31	45	
176,742	4.055	20	12	11	8	5	3	2	31	45	
176,800	4.055	11	7	7	5	4	3	2	31	45	
176,882	4.055	16	11	10	9	4	2	1	31	45	
176,961	4.041	22	13	12	9	6	3	2	31	45	km 176 = 1000m
177,040	4.077	21	14	13	9	5	3	2	31	45	
177,121	4.070	20	13	13	10	6	4	3	31	45	
177,203	4.062	16	9	8	6	3	3	2	31	45	
177,281	3.990	16	9	8	6	4	3	2	32	45	
177,363	4.041	21	13	12	7	4	3	2	32	45	
177,440	4.055	20	13	12	8	3	2	1	31	45	
177,520	4.019	43	23	19	9	3	2	2	32	45	
177,600	4.041	24	14	12	8	4	3	2	31	45	
177,683	4.055	18	10	9	7	4	3	2	31	45	
177,762	4.034	16	9	9	6	4	2	2	31	45	
177,840	4.062	19	11	10	7	4	3	2	31	45	
177,919	4.048	23	16	14	10	5	3	2	31	45	km 177 = 1000m
178,001	4.019	14	9	8	5	3	3	2	31	45	
178,080	4.091	17	10	10	6	5	3	2	31	45	
178,162	4.062	17	10	10	8	5	4	2	32	45	
178,242	4.055	23	12	11	8	5	4	3	32	45	
178,320	4.062	22	13	12	8	5	3	2	32	45	
178,400	4.019	26	15	13	9	5	3	2	32	45	
178,481	4.026	79	32	23	12	6	5	4	32	45	
178,562	4.062	15	9	7	4	2	2	1	32	45	
178,640	4.041	18	9	8	5	3	2	2	32	45	
178,719	4.026	18	8	7	5	4	3	2	32	45	
178,801	4.048	18	10	10	7	4	3	2	32	45	
178,882	4.034	32	16	12	7	4	3	2	32	45	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
178,961	4.019	38	17	14	8	6	4	2	32	45	km 178 = 1000m
179,040	4.120	21	15	13	9	5	3	2	24	39	
179,120	4.192	24	16	13	8	4	2	2	24	39	
179,200	4.177	13	9	8	6	4	3	3	24	39	
179,281	4.177	15	10	10	7	6	4	3	24	39	
179,360	4.199	17	11	9	7	5	4	3	24	39	
179,441	4.055	52	37	32	19	13	9	7	24	39	
179,519	4.156	26	18	17	12	9	7	5	24	39	
179,600	4.170	27	19	16	12	8	6	4	24	39	
179,681	4.185	20	12	10	7	5	4	3	24	39	
179,760	4.192	15	10	9	7	5	4	3	24	39	
179,841	4.185	19	11	8	4	3	2	1	24	39	
179,920	4.206	15	8	6	4	2	1	1	24	39	km 179 = 990m
180,000	4.177	29	17	14	11	7	6	5	24	39	início de ponte km 180,011
180,241	4.163	29	17	13	8	4	3	3	24	39	fim de ponte km 180,180
180,320	4.134	38	21	17	11	9	8	5	24	39	
180,401	4.156	24	18	17	9	6	5	3	24	39	
180,481	4.141	35	20	17	12	8	6	4	24	39	
180,561	4.163	25	17	16	13	9	6	4	24	39	
180,641	4.120	20	13	11	9	6	5	4	25	39	
180,721	4.134	20	13	11	8	5	3	2	25	39	
180,800	4.134	37	24	21	14	8	5	3	25	39	
180,879	4.105	22	16	15	12	8	6	5	25	39	
180,961	4.113	39	26	22	15	9	6	4	24	39	km 180 = 1018m
181,041	4.048	61	40	36	25	16	9	6	24	39	
181,121	4.113	40	25	22	16	10	6	4	24	39	
181,201	4.077	108	60	52	29	20	7	5	25	39	
181,280	4.156	18	12	11	9	7	6	4	24	39	
181,360	4.163	17	12	11	9	7	5	4	24	39	
181,440	4.156	17	12	11	8	6	5	4	24	39	
181,520	4.127	24	18	17	15	10	8	5	24	39	
181,600	4.149	29	20	18	13	9	6	4	24	39	
181,680	4.170	18	12	11	8	6	5	4	24	39	
181,760	4.156	20	12	9	6	4	2	2	24	39	
181,840	4.163	14	9	8	6	4	3	2	24	39	
181,920	4.134	20	14	12	9	5	3	2	24	39	km 181 = 1000m
182,000	4.156	17	11	11	7	5	3	2	24	39	
182,080	4.149	22	15	14	10	6	4	2	24	39	
182,160	4.055	32	20	17	12	7	4	3	24	39	
182,240	4.055	24	15	13	8	5	4	3	24	39	
182,320	4.055	28	19	17	11	7	4	2	24	39	
182,400	4.055	24	15	12	7	4	3	2	24	39	
182,480	4.170	13	8	7	5	3	2	2	24	39	
182,560	4.156	17	12	11	8	5	3	2	24	39	
182,640	4.156	21	15	13	10	6	3	2	24	39	
182,720	4.127	34	17	14	10	6	4	2	24	39	
182,802	4.141	24	16	15	10	6	4	2	25	39	
182,880	4.070	28	18	15	10	6	4	2	24	39	
182,962	3.998	41	21	14	5	2	2	2	24	39	km 182 = 1000m
183,040	4.055	25	15	12	7	3	2	2	24	39	
183,120	4.098	26	17	15	10	5	3	2	24	39	
183,200	4.070	26	17	14	8	4	2	2	24	39	
183,280	4.084	25	16	14	10	6	3	2	25	39	
183,362	4.084	22	15	13	9	5	3	2	24	39	
183,440	4.084	24	15	13	9	5	4	3	24	39	
183,520	4.062	35	20	15	9	5	3	3	24	39	
183,600	4.091	25	15	12	8	5	3	2	25	39	
183,680	4.084	17	12	10	8	5	3	2	24	39	
183,760	4.105	27	19	16	11	6	4	2	25	39	
183,840	4.120	18	12	10	8	5	3	2	25	39	
183,920	4.113	20	13	12	8	4	3	2	25	39	km 183 = 1000m
184,000	4.113	19	12	10	7	5	4	2	24	39	
184,080	4.134	15	9	7	5	3	2	1	25	39	
184,160	4.105	24	16	14	9	5	3	2	25	39	
184,240	4.098	16	11	9	6	5	4	2	25	39	
184,320	4.134	20	13	11	7	6	4	3	25	39	
184,400	4.062	17	11	9	6	4	3	2	25	39	
184,480	4.091	28	17	14	9	6	4	3	25	39	
184,560	4.062	46	27	21	12	6	4	3	25	39	
184,640	4.055	28	17	15	10	6	4	3	25	39	
184,720	4.113	18	13	12	9	6	4	2	25	40	
184,800	4.084	30	15	12	8	5	3	2	25	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
184,880	4.084	14	8	7	5	3	2	2	25	40	
184,960	4.062	22	14	13	10	7	5	3	25	40	km 184 = 1000m
185,041	4.034	28	14	11	7	5	3	2	25	40	
185,120	4.084	30	17	13	8	4	2	2	25	40	
185,200	4.077	40	19	14	9	5	4	2	25	40	
185,280	4.055	38	23	16	5	3	2	1	25	40	
185,360	4.098	33	20	16	10	5	3	2	25	40	
185,440	4.091	16	11	10	7	4	3	2	25	40	
185,520	4.091	15	10	10	8	6	4	2	25	40	
185,600	4.070	28	18	14	9	5	4	3	25	40	
185,680	4.077	31	19	15	10	6	4	3	25	40	
185,760	4.062	31	18	12	7	4	3	3	25	40	
185,840	4.098	22	12	9	7	5	4	3	25	40	
185,921	4.091	33	14	9	6	4	3	2	25	40	km 185 = 1000m
186,000	4.070	51	21	13	7	4	3	2	26	40	
186,080	4.055	34	19	14	8	4	2	2	26	40	
186,160	4.084	22	13	7	2	2	1	1	26	40	
186,240	4.105	13	7	6	3	3	3	1	26	40	
186,320	4.098	15	9	8	6	4	3	2	26	40	
186,400	4.055	17	10	9	6	4	2	2	26	40	
186,481	4.113	14	9	8	5	4	3	2	26	40	
186,561	4.084	28	17	15	10	7	4	3	26	40	
186,640	4.113	33	20	17	12	7	5	3	26	40	
186,720	4.048	56	33	25	13	6	4	3	26	40	
186,800	4.062	47	26	20	9	5	3	2	26	40	
186,880	4.062	58	34	24	13	6	5	3	26	40	
186,961	4.084	44	26	22	15	8	5	3	26	40	km 186 = 1000m
187,040	3.987	64	33	27	14	7	5	3	34	44	
187,121	3.966	59	26	22	14	6	4	3	34	46	
187,202	4.009	27	16	16	11	7	5	3	34	46	
187,283	3.944	50	23	18	10	6	4	3	34	46	
187,362	3.987	46	24	19	8	6	4	3	35	46	
187,440	3.966	55	26	20	12	6	4	3	35	46	
187,520	3.966	55	25	21	11	5	3	3	35	46	
187,600	3.951	52	29	24	13	6	4	3	35	46	
187,680	3.929	65	29	20	7	3	1	2	35	46	
187,761	3.929	48	23	19	8	5	3	2	34	46	
187,840	3.958	48	26	19	7	3	2	1	34	46	
188,002	3.973	49	26	20	10	5	3	2	35	46	km 187 = 920m
188,080	3.951	55	24	18	11	4	3	2	35	46	
188,162	4.002	35	15	11	6	3	2	2	34	46	
188,240	3.937	51	22	17	6	3	2	2	34	46	
188,320	3.966	44	20	14	5	2	2	2	34	46	
188,400	3.915	46	21	16	8	3	2	2	34	46	
188,481	3.958	52	25	18	10	5	4	3	34	46	
188,560	3.944	43	19	14	8	4	3	2	34	46	
188,640	3.973	47	25	21	12	6	3	2	34	46	
188,720	3.929	43	21	17	9	5	3	3	34	46	
188,802	3.937	51	26	22	15	7	4	2	34	46	
188,880	3.886	61	33	26	15	6	3	2	34	46	
188,959	3.994	60	29	22	12	5	3	2	33	46	
189,039	3.929	25	14	13	9	5	3	2	34	46	km 188 = 1085m
189,041	3.922	48	25	22	13	6	3	2	34	46	
189,121	3.922	41	20	16	9	4	3	2	34	46	
189,200	3.951	24	11	10	6	4	3	2	34	46	
189,281	3.908	59	28	22	9	4	1	2	34	46	
189,360	3.951	63	29	24	13	6	4	3	34	46	
189,442	3.843	67	30	23	11	4	3	2	34	46	
189,520	3.901	55	27	20	10	4	3	3	34	46	
189,600	3.865	75	40	33	15	6	3	2	34	46	
189,680	3.908	74	45	38	18	7	4	2	34	46	
189,760	3.901	64	32	27	14	7	4	3	34	46	
189,840	3.908	50	23	19	11	5	3	2	34	46	
189,920	3.893	66	33	27	14	7	4	3	33	46	km 189 = 1000m
190,000	3.915	68	37	24	10	4	3	2	33	46	
190,080	3.915	66	30	24	12	6	4	3	34	46	
190,161	3.951	73	35	28	13	6	3	2	34	46	
190,240	3.966	59	28	22	10	4	3	2	34	46	
190,320	3.980	58	28	21	9	4	2	1	34	46	
190,400	3.944	58	28	20	10	4	2	2	34	46	
190,481	3.994	30	16	13	9	5	3	2	34	46	
190,561	3.966	55	29	23	12	4	2	2	33	46	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
190,641	4.009	64	29	23	12	5	3	2	34	46	
190,720	4.009	69	31	24	12	5	3	2	34	46	
190,801	4.002	39	18	13	7	4	3	2	34	46	
190,882	4.002	46	22	18	10	4	2	2	34	46	
190,961	4.045	32	16	13	8	4	3	2	34	46	km 190 = 1000m
191,040	4.009	48	16	12	6	3	2	1	34	46	
191,120	4.030	50	24	17	7	3	2	2	34	46	
191,200	4.023	40	17	11	5	3	3	2	34	46	
191,280	3.937	54	25	19	9	4	3	2	34	46	
191,361	4.016	27	13	10	6	3	2	1	34	46	
191,441	4.002	47	23	18	9	4	2	2	34	46	
191,522	3.994	38	20	17	10	4	3	2	34	46	
191,601	3.987	39	19	16	10	4	3	2	34	46	
191,681	3.958	48	24	16	10	4	3	2	34	46	
191,761	3.951	17	9	8	5	3	2	2	34	46	
191,840	4.016	39	21	17	10	6	4	3	34	46	
191,920	4.002	18	9	8	7	4	4	3	34	46	km 191 = 1000m
192,000	4.002	26	11	9	6	4	3	2	37	54	
192,080	4.030	26	12	9	6	4	3	2	38	54	
192,161	4.030	21	12	11	8	6	5	3	37	54	
192,242	4.009	29	17	17	12	8	5	4	37	54	
192,321	4.038	27	19	18	15	10	8	5	38	54	
192,400	4.052	20	12	12	9	7	5	4	37	54	
192,480	4.023	27	15	14	9	5	4	3	38	54	
192,561	4.045	18	12	11	8	5	3	2	37	54	
192,641	4.002	63	21	11	4	2	1	1	37	54	
192,722	4.009	44	15	12	7	4	4	3	37	54	
192,800	4.002	54	18	8	5	4	4	3	38	54	
192,883	3.987	54	19	10	4	3	3	2	38	54	
192,962	3.951	69	19	14	7	4	3	2	38	54	km 192 = 1000m
193,040	4.002	29	9	5	4	3	3	2	38	54	
193,121	4.023	39	12	7	4	3	2	1	38	54	
193,200	4.009	37	12	7	6	5	4	3	38	54	
193,281	4.038	26	16	15	13	9	6	4	38	54	
193,360	4.038	24	16	15	13	9	7	5	39	54	
193,440	4.052	12	8	8	7	5	4	3	39	54	
193,521	4.052	21	12	12	9	5	4	2	38	54	
193,602	4.009	21	11	11	9	6	5	4	38	54	início de ponte km 193,760
193,680	4.016	21	13	12	10	7	5	4	38	54	
193,759	4.002	53	27	27	20	13	9	6	38	54	fim de ponte km 193,916
194,080	4.002	22	13	13	9	6	5	4	38	54	
194,160	3.937	77	35	26	15	9	6	4	37	54	km 193 = 920m
194,241	3.966	70	30	22	9	4	3	2	38	54	
194,322	4.016	15	9	8	7	6	5	4	38	54	
194,402	4.023	16	8	8	5	3	2	2	38	54	
194,482	3.973	63	27	18	8	1	0	0	38	54	
194,560	4.016	27	17	16	13	8	6	4	37	54	
194,640	3.987	49	19	12	7	6	5	3	38	54	
194,720	4.009	44	20	17	9	5	3	3	38	54	
194,801	4.009	54	21	14	8	6	4	3	38	54	
194,881	3.980	81	35	26	12	6	4	3	38	54	
194,962	4.023	34	16	15	10	6	5	3	38	54	km 194 = 1009m
195,040	4.009	28	14	12	6	3	1	0	37	54	
195,120	4.030	20	9	8	5	2	1	0	38	54	
195,201	4.009	31	17	17	12	8	6	4	37	54	
195,281	4.009	38	18	16	10	6	5	4	38	54	
195,361	3.994	28	15	15	10	7	5	4	37	54	
195,442	4.002	21	14	13	11	9	7	5	37	54	
195,521	3.771	224	95	64	23	9	5	4	37	54	
195,601	3.944	77	37	26	13	5	4	4	37	54	
195,681	3.994	58	28	23	14	9	7	5	37	54	
195,760	4.009	24	13	12	9	6	4	3	37	54	
195,841	3.922	98	67	54	37	22	17	14	37	54	
195,922	4.009	29	11	9	6	4	3	2	37	54	km 195 = 1000m
196,000	4.016	50	17	10	5	3	3	2	36	54	
196,081	4.002	28	14	13	9	5	5	3	36	54	
196,161	4.023	14	7	7	5	4	3	3	36	54	
196,240	4.023	24	11	10	7	4	3	2	36	54	
196,321	4.016	26	13	13	10	7	5	4	36	54	
196,401	3.951	57	36	34	27	19	14	10	36	54	
196,482	4.002	19	13	12	10	7	5	4	36	54	
196,560	4.023	18	10	10	7	4	3	2	36	54	início de ponte km 195,645

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
196,721	4.009	28	17	16	13	10	7	5	36	54	fim de ponte km 195,709
196,801	4.009	20	11	12	9	6	5	4	36	54	
196,882	4.009	34	19	19	14	9	7	5	35	54	km 196 = 960m
197,040	4.016	24	13	13	9	6	4	2	36	54	
197,120	4.009	23	13	13	10	7	5	3	35	54	
197,200	3.908	75	43	41	31	21	14	9	36	54	
197,281	4.002	27	15	14	9	6	4	3	35	54	
197,362	3.966	31	17	17	13	9	8	5	36	54	
197,441	3.973	40	20	19	13	7	5	3	35	54	
197,521	3.980	26	13	13	10	8	6	5	35	54	
197,601	3.958	59	27	23	14	8	7	5	35	54	
197,682	3.987	23	13	13	10	7	5	4	35	54	
197,762	3.980	37	18	17	12	7	5	4	35	54	
197,840	3.987	28	13	12	8	6	5	3	35	54	
197,920	4.002	28	16	15	11	8	6	4	35	54	km 197 = 995m
198,000	3.987	27	13	12	8	5	4	3	34	54	
198,080	4.002	19	10	10	8	6	5	3	35	54	
198,160	3.987	19	8	7	5	3	3	2	35	54	
198,240	3.994	16	8	8	6	4	3	2	35	54	
198,321	4.016	16	9	8	6	4	3	2	34	54	
198,402	4.009	16	9	9	7	5	3	2	35	54	
198,480	4.023	16	10	10	8	5	3	2	35	54	
198,561	4.038	16	9	8	6	4	2	1	34	54	
198,640	4.045	14	5	5	4	3	2	2	34	54	
198,721	4.002	17	7	5	3	2	2	2	34	54	
198,800	4.038	9	4	3	2	2	1	1	34	54	
198,879	4.009	22	9	7	5	3	3	3	35	54	
198,961	4.038	35	15	13	8	5	4	2	34	54	km 198 = 1000m
199,040	4.038	18	11	10	7	4	3	2	34	54	
199,120	4.023	16	8	8	5	3	2	2	34	54	
199,202	3.973	22	10	9	6	4	3	2	34	54	
199,281	3.966	20	11	9	5	3	2	1	34	54	
199,362	3.929	23	13	12	9	6	4	3	33	54	
199,440	3.980	36	19	13	6	2	2	2	34	54	
199,520	3.951	32	18	16	10	7	5	4	34	54	
199,600	3.973	43	16	12	7	4	4	3	34	54	
199,681	3.987	42	18	15	9	4	3	2	34	54	
199,761	3.994	29	14	12	6	2	1	1	34	54	
199,842	4.009	19	9	7	5	3	3	2	33	54	
199,922	4.002	29	16	9	3	1	1	1	33	54	km 199 = 1000m
200,002	3.915	50	19	13	7	5	3	3	33	54	
200,080	3.973	36	20	17	9	3	2	2	34	54	
200,161	3.893	45	19	16	9	7	5	2	33	54	
200,240	4.030	17	10	10	8	5	4	2	33	54	
200,321	3.922	63	28	22	13	7	4	2	33	54	
200,402	4.016	21	12	12	8	5	3	2	33	54	
200,480	4.009	18	11	11	8	4	2	1	33	54	
200,559	3.980	27	13	12	7	4	3	1	33	54	
200,640	3.937	69	24	15	6	3	2	2	33	54	
200,722	4.038	20	11	10	7	4	3	2	34	54	
200,800	4.023	26	15	14	9	5	3	2	33	54	
200,879	4.038	15	9	9	6	4	3	2	33	54	
200,961	4.030	24	11	11	7	4	3	2	33	54	km 200 = 1000m
201,040	4.009	22	13	12	9	5	3	2	33	54	
201,122	3.987	37	20	17	12	8	5	3	33	54	
201,200	4.009	10	5	4	4	3	2	2	33	54	
201,281	4.023	10	5	5	4	3	2	2	33	54	
201,361	4.009	19	10	9	5	3	2	1	33	54	
201,441	4.023	23	13	13	8	4	3	2	33	54	
201,521	3.937	62	28	22	11	5	3	2	33	54	
201,602	3.966	43	18	13	8	4	3	2	34	54	
201,680	4.023	24	13	12	8	5	3	2	33	54	
201,761	3.929	47	20	16	9	4	2	2	33	54	
201,842	4.038	18	9	8	5	3	2	1	33	54	
201,922	4.038	17	10	10	7	4	4	2	33	54	km 201 = 1000m
202,000	3.987	31	14	12	8	5	3	2	33	50	
202,082	4.030	29	14	12	7	4	3	2	33	50	
202,160	4.059	16	8	8	5	3	2	1	33	50	
202,240	4.016	19	11	11	7	4	3	2	33	50	
202,321	4.009	22	12	11	7	4	3	2	33	50	
202,400	3.980	34	17	14	7	3	2	2	33	50	
202,479	3.872	44	23	16	8	4	3	2	33	50	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
202,560	4.023	30	16	14	8	4	3	2	33	50	
202,641	4.030	22	12	11	7	4	3	2	33	50	
202,722	4.023	28	17	10	5	3	2	2	33	50	
202,800	4.009	19	9	9	6	3	2	1	33	50	
202,878	3.987	43	16	13	7	4	2	2	33	50	
202,959	4.023	41	18	14	8	3	3	2	33	50	km 202 = 1000m
203,039	4.030	15	9	7	4	2	2	1	33	50	
203,121	3.973	61	26	16	6	3	2	1	33	50	
203,200	4.023	17	9	8	5	3	3	2	32	50	
203,280	3.958	56	21	15	7	5	2	2	32	50	
203,361	4.016	16	9	9	7	4	3	2	32	50	
203,440	4.002	21	12	11	8	5	4	2	32	50	
203,520	4.002	23	14	14	10	6	4	3	32	50	
203,601	4.016	10	7	6	6	5	4	3	32	50	
203,683	4.023	13	9	8	7	6	4	3	32	50	
203,760	4.030	19	11	10	7	4	3	2	32	50	
203,841	4.002	17	11	10	8	6	4	2	32	50	
203,921	3.987	65	29	23	12	6	3	2	32	50	início de ponte km 203+1026
204,000	4.045	8	4	5	4	3	3	2	32	50	fim de ponte km 203+1075
204,080	3.980	8	4	5	4	4	3	3	32	50	km 203 = 1138m
204,080	4.016	24	14	14	11	7	5	3	35	55	
204,162	4.023	49	20	16	9	5	3	3	34	55	
204,240	4.045	13	7	7	6	4	3	2	34	55	
204,320	4.045	17	10	9	7	5	3	2	34	55	
204,400	3.929	34	17	15	10	7	5	3	34	55	
204,480	4.030	14	9	8	7	6	4	3	34	55	
204,560	4.023	24	11	9	6	4	3	2	34	55	
204,640	4.016	29	13	10	6	4	3	3	35	55	
204,720	4.002	21	12	13	10	7	5	4	34	55	
204,800	4.002	34	15	14	9	5	3	2	34	55	
204,880	4.030	25	13	12	8	5	4	3	34	55	
204,960	4.030	19	9	9	6	4	2	2	35	55	
205,040	4.052	18	9	9	6	4	3	2	34	55	km 204 = 1072m
205,040	4.045	17	9	8	6	4	3	2	35	55	
205,120	4.023	15	8	9	7	5	3	2	35	55	
205,201	4.052	24	13	11	7	3	2	2	34	55	
205,280	4.030	26	14	12	7	3	2	2	35	55	
205,360	4.045	21	11	11	8	4	3	2	35	55	
205,440	4.023	27	15	13	9	5	3	2	35	55	
205,520	4.045	38	17	14	8	4	2	2	35	55	
205,600	4.045	23	12	12	8	4	3	2	35	55	
205,680	4.052	20	11	10	7	4	3	2	35	55	
205,760	4.030	26	14	13	9	5	3	2	36	55	
205,840	3.994	26	12	11	6	5	4	3	36	55	
205,920	4.045	27	15	14	10	7	4	3	35	55	km 205 = 920m
206,080	3.987	33	17	15	10	5	4	3	36	55	
206,160	3.994	26	9	7	5	3	3	2	36	55	
206,242	3.966	68	41	27	12	6	5	3	36	55	
206,320	3.966	42	21	19	11	6	4	3	36	55	
206,400	4.002	30	14	13	9	5	4	3	35	55	
206,480	4.016	24	14	13	8	4	3	2	36	55	
206,560	4.038	23	13	12	7	4	3	2	36	55	
206,640	4.045	23	13	11	7	4	2	2	36	55	
206,720	4.016	30	15	12	7	4	3	2	36	55	
206,800	4.002	31	16	12	7	3	3	2	36	55	
206,880	4.038	24	12	10	6	4	2	2	36	55	
206,960	4.002	26	16	14	9	5	4	3	36	55	km 206 = 1000m
207,040	4.016	24	14	14	9	5	4	2	36	55	
207,120	4.016	33	19	17	11	6	3	2	36	55	
207,200	4.016	29	16	15	10	5	3	2	36	55	
207,280	4.009	41	21	19	12	7	4	3	36	55	
207,360	4.023	26	13	13	8	5	4	2	36	55	
207,440	4.016	28	15	14	8	4	2	1	36	55	
207,520	4.023	26	12	10	5	3	2	2	36	55	
207,600	4.009	23	12	10	5	2	2	2	36	55	
207,680	4.009	27	14	11	6	4	2	2	37	55	
207,760	4.009	30	17	15	9	4	3	2	36	55	
207,840	4.002	59	29	24	13	6	4	2	36	55	
207,920	4.030	22	12	10	7	3	2	1	37	55	km 207 = 1000m
208,002	4.002	25	11	9	6	2	1	1	36	55	
208,080	4.023	15	9	8	6	2	1	1	36	55	
208,160	4.023	27	12	9	4	2	2	2	36	55	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
208,240	4.016	31	15	12	6	3	2	2	37	55	
208,320	4.009	26	12	10	6	3	2	2	37	55	
208,400	4.023	20	11	10	6	3	3	2	37	55	
208,480	4.023	39	19	15	9	4	3	2	36	55	
208,560	4.016	45	20	15	7	3	2	2	37	56	
208,640	4.016	45	21	19	11	5	3	2	37	56	
208,720	4.030	29	13	10	6	3	2	2	37	56	
208,800	3.994	67	33	21	7	2	1	2	37	56	
208,880	4.002	38	20	15	7	4	3	2	37	56	
208,961	4.009	50	22	17	7	4	3	2	37	56	km 208 = 1025m
209,040	3.994	32	15	12	7	4	3	2	36	56	
209,120	4.023	23	11	10	6	4	3	2	37	56	
209,200	4.016	24	10	9	6	3	2	2	37	56	
209,280	4.009	20	9	8	5	3	2	1	37	56	
209,360	4.023	20	11	10	7	4	2	2	37	56	
209,440	4.023	27	12	10	7	4	3	2	37	56	
209,520	3.994	26	13	11	7	4	3	2	37	56	
209,600	3.951	76	32	24	13	5	3	2	37	56	
209,680	4.009	32	12	9	6	4	2	2	37	56	
209,760	3.987	42	19	16	9	5	3	2	37	56	
209,840	4.016	26	13	11	7	4	3	2	37	56	
209,921	4.002	37	16	12	6	3	2	2	37	56	km 209 = 975m
210,000	3.915	81	30	19	9	3	2	2	37	56	
210,080	4.030	22	13	12	8	4	3	2	37	56	
210,160	4.030	25	12	11	8	5	3	2	37	56	
210,240	4.016	21	11	10	6	3	2	2	37	56	
210,320	4.038	14	8	8	6	4	3	2	37	56	
210,400	4.002	28	13	9	5	3	3	2	37	56	
210,480	4.009	14	8	8	5	3	2	2	37	56	
210,560	4.023	20	12	12	8	5	4	3	37	56	
210,640	4.016	21	10	9	7	4	3	2	37	56	
210,720	4.016	26	14	14	10	6	4	2	37	56	
210,800	4.002	46	24	21	13	6	3	2	37	56	
210,880	3.987	55	23	21	13	8	5	3	38	56	
210,960	3.994	22	11	10	7	4	3	2	37	56	km 210 = 1000m
211,043	3.987	21	11	9	6	4	2	2	38	56	
211,120	4.016	21	11	9	5	3	3	2	38	56	
211,200	3.987	17	8	7	5	3	2	2	38	56	
211,280	3.994	20	8	7	4	2	2	2	37	56	
211,360	3.994	19	10	9	6	4	3	2	37	56	
211,440	3.973	27	13	13	9	6	4	3	37	56	
211,520	4.002	21	12	12	8	5	3	2	38	56	
211,600	4.002	36	20	18	11	5	3	2	37	56	
211,680	4.002	24	13	13	8	4	3	2	37	56	
211,760	4.002	29	15	13	8	4	3	2	38	56	
211,840	4.016	28	15	14	8	4	3	2	37	56	
211,920	4.009	32	14	10	6	3	2	2	37	56	km 211 = 1000m
212,000	3.980	47	18	14	7	4	3	2	38	56	
212,080	3.987	33	17	15	10	5	3	2	37	56	
212,160	3.994	13	7	7	5	3	2	1	37	56	
212,240	3.994	20	10	8	5	4	2	2	37	56	
212,320	3.994	16	8	7	4	2	1	1	37	56	
212,400	4.016	16	8	7	5	2	1	1	37	56	
212,481	3.994	28	14	11	5	2	2	1	37	56	
212,560	4.023	10	5	5	4	3	2	1	37	56	
212,640	4.009	27	12	10	6	3	2	2	37	56	
212,721	4.009	20	10	9	6	4	3	2	37	56	
212,801	3.987	33	17	15	9	5	3	2	37	56	
212,880	4.009	23	12	11	8	5	3	3	37	56	
212,960	3.994	26	14	13	9	5	4	3	37	56	km 212 = 1000m
213,040	3.994	21	12	12	8	5	4	3	37	56	
213,121	3.973	28	15	14	10	6	4	3	37	56	
213,200	3.966	18	11	10	7	5	3	2	37	56	
213,280	3.958	20	11	11	9	6	4	3	37	56	
213,360	3.901	30	19	19	14	9	5	3	37	56	
213,440	3.908	58	37	34	27	19	12	8	37	56	
213,520	3.778	135	76	72	44	25	16	9	37	56	
213,600	3.879	79	42	31	12	4	3	3	37	56	
213,680	3.937	58	28	24	13	5	3	2	37	56	
213,760	3.850	151	74	62	31	12	7	5	37	56	
213,841	3.807	136	67	66	40	25	16	11	37	56	
213,921	3.886	75	41	40	27	18	14	10	37	56	km 213 = 990m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
214.000	3.915	44	23	22	16	9	7	5	37	56	
214.080	3.980	18	12	11	11	8	7	5	37	56	
214.243	3.901	56	37	30	16	8	6	4	36	56	
214.320	3.865	95	50	45	27	15	10	7	37	56	
214.399	3.901	79	41	35	21	13	9	7	36	56	
214.480	3.893	64	31	26	17	10	7	5	37	56	
214.561	3.872	83	40	35	22	13	9	6	37	56	
214.641	3.915	62	29	25	15	8	6	5	37	56	
214.720	3.929	72	35	28	15	9	6	5	37	56	
214.803	3.893	43	19	16	10	6	5	4	37	56	
214.881	3.944	39	18	16	10	6	4	3	37	56	
214.960	3.944	35	17	14	7	3	2	2	37	56	km 214 = 1008m
215.040	4.002	28	14	9	4	2	2	2	39	55	
215.119	4.002	27	11	8	5	4	4	2	39	55	
215.200	4.009	22	11	10	6	4	3	2	39	55	
215.280	4.002	41	19	17	10	5	4	3	39	55	
215.361	4.016	23	12	12	8	5	3	2	39	55	
215.441	4.016	19	8	8	5	3	3	2	39	55	
215.520	4.009	73	30	22	9	2	1	2	39	55	
215.601	3.994	16	7	6	4	2	2	1	39	55	
215.679	4.002	32	13	11	6	4	2	1	39	55	
215.760	3.994	24	11	10	6	3	2	2	39	55	
215.841	3.994	11	6	6	5	3	2	2	39	55	
215.921	3.994	24	12	11	7	4	3	2	39	55	km 215 = 1000m
215.999	4.016	17	9	9	6	5	4	3	39	55	
216.081	3.980	25	11	10	7	4	3	2	38	55	
216.160	4.023	13	7	7	5	3	2	2	39	55	
216.240	3.994	16	7	6	5	4	3	2	39	55	
216.320	4.030	16	8	8	5	4	2	2	39	55	
216.400	4.023	20	10	10	7	4	3	2	38	55	
216.480	4.052	19	8	7	5	2	1	1	39	55	
216.562	4.038	16	8	8	5	3	2	2	38	55	
216.641	4.009	20	9	9	6	4	3	2	39	55	
216.720	3.980	19	8	8	5	3	3	2	38	55	
216.801	3.987	40	17	14	8	4	3	2	38	55	
216.881	4.002	23	11	9	5	3	2	2	38	55	km 216 = 943m
217.040	3.987	21	10	8	5	3	2	2	37	55	
217.120	3.966	22	12	11	8	5	3	2	38	55	
217.201	4.023	21	11	10	5	3	2	2	37	55	
217.281	3.966	42	20	17	9	4	3	2	37	55	
217.361	4.016	22	10	9	5	3	2	1	38	55	
217.440	4.009	22	11	9	5	3	3	2	37	55	
217.519	4.030	16	9	8	5	3	2	1	37	55	
217.600	3.994	26	11	9	5	3	2	2	37	55	
217.681	3.922	77	25	16	7	3	2	2	37	55	
217.762	3.958	78	33	23	9	3	2	1	37	55	
217.842	3.980	33	16	15	10	6	4	2	37	55	
217.920	4.016	36	16	14	8	5	3	2	38	55	km 217 = 1000m
218.000	4.030	23	13	12	7	3	2	2	37	55	
218.080	4.023	30	14	13	8	5	3	2	37	55	
218.162	4.030	17	9	8	5	3	2	2	38	55	
218.242	4.009	52	27	24	14	6	4	2	38	55	
218.320	4.023	21	12	12	8	4	2	2	38	55	
218.402	4.030	19	10	10	7	4	3	2	38	55	
218.480	4.038	19	10	9	6	4	3	2	38	55	
218.563	4.016	29	15	15	10	5	3	2	38	55	
218.642	3.937	53	22	18	9	4	2	2	38	55	
218.721	4.009	15	7	7	5	3	3	2	37	55	
218.802	4.009	21	11	10	6	4	2	2	38	55	
218.882	4.009	16	8	7	5	4	3	2	38	55	
218.960	4.009	13	6	5	4	3	3	2	37	55	km 218 = 1000m
219.040	4.038	14	6	6	4	3	3	2	37	55	
219.121	4.016	18	8	7	5	4	3	2	37	55	
219.200	3.987	24	11	9	6	3	3	2	37	55	
219.280	4.002	30	14	13	7	3	2	2	37	55	
219.362	3.994	21	11	10	7	4	3	2	37	55	
219.440	3.987	42	20	18	11	6	4	3	37	55	
219.520	3.973	34	18	17	12	8	6	4	37	55	
219.601	4.002	36	18	15	8	4	2	2	37	55	
219.680	3.980	43	19	15	7	3	2	2	37	55	
219.758	3.994	32	15	14	8	5	4	3	37	55	
219.840	3.987	45	21	19	11	7	5	3	36	55	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
219,921	4.002	47	21	17	9	5	3	2	37	55	km 219 = 1000m
220,000	4.009	33	14	13	8	5	3	2	55	55	
220,080	4.016	16	7	6	5	3	3	2	37	55	
220,162	4.009	29	13	11	7	4	2	2	37	55	
220,240	4.009	27	13	12	8	4	3	2	37	55	
220,322	4.016	34	16	13	8	4	3	2	37	55	
220,400	3.994	51	24	19	9	4	3	2	37	55	
220,479	4.016	25	11	9	6	4	3	2	37	55	
220,559	4.030	18	8	8	6	5	4	2	38	55	
220,640	4.023	22	9	8	5	3	2	1	37	55	
220,721	4.002	48	20	14	7	4	2	2	37	55	
220,800	4.023	26	11	10	6	3	2	2	37	55	
220,881	4.030	31	15	13	7	3	2	2	37	55	
220,962	4.038	27	12	11	7	4	3	2	37	55	km 220 = 1000m
221,041	4.009	40	20	18	10	5	3	2	37	55	
221,120	4.030	34	16	14	8	4	3	2	38	55	
221,201	4.030	25	11	9	6	4	2	2	37	55	
221,280	4.002	56	26	21	10	4	2	1	37	55	
221,360	4.030	15	6	6	5	3	2	2	38	55	
221,442	4.016	13	8	8	6	4	3	2	38	55	
221,521	3.987	25	10	9	6	4	2	2	38	55	
221,602	3.987	43	17	12	5	3	2	1	37	55	
221,680	4.002	40	16	13	7	3	2	1	38	55	
221,761	4.023	28	14	13	9	5	4	3	38	55	
221,841	4.016	30	14	13	9	5	3	2	38	55	
221,920	4.023	29	14	14	9	5	3	2	38	55	km 221 = 1000m
222,000	4.002	27	13	12	8	4	3	2	38	55	
222,080	3.973	32	18	17	11	6	4	3	38	55	
222,160	3.987	26	15	15	10	6	4	3	38	55	
222,241	3.966	31	16	17	12	7	5	3	38	55	
222,321	3.994	45	24	22	14	7	5	4	38	55	
222,401	3.994	35	18	18	13	8	5	4	38	53	
222,482	3.987	33	22	17	13	8	6	4	38	53	
222,560	3.987	33	18	18	12	7	5	3	38	53	
222,639	3.980	33	16	16	11	6	4	3	38	53	
222,720	3.994	49	25	23	14	8	5	3	38	53	
222,801	3.958	52	25	21	11	6	4	3	38	53	
222,881	4.009	37	19	19	13	8	5	4	38	53	
222,960	3.987	34	18	18	13	8	5	4	38	53	km 222 = 1000m
223,041	3.980	48	23	21	13	7	5	3	38	53	
223,121	3.994	38	19	18	11	6	5	3	38	53	
223,202	3.987	25	14	14	10	6	4	3	38	53	
223,282	4.002	26	14	14	9	6	4	2	38	53	
223,360	3.958	55	24	19	10	5	3	2	38	53	
223,440	4.002	22	12	11	8	5	3	2	38	53	
223,520	3.980	25	13	13	9	6	4	3	38	53	
223,600	3.973	53	21	17	9	5	3	2	38	53	
223,681	3.987	30	16	15	10	6	4	2	38	53	
223,762	3.980	23	14	13	9	5	4	2	38	53	
223,840	3.987	65	31	26	13	6	4	2	38	53	
223,920	3.994	26	14	14	10	6	4	2	38	53	km 223 = 1000m
224,000	4.009	39	18	15	9	4	3	2	38	53	
224,080	4.016	16	9	9	7	4	3	2	38	53	
224,161	4.002	28	13	12	7	4	3	2	37	53	
224,241	4.016	27	14	14	9	6	4	3	37	53	
224,322	3.994	47	21	18	10	6	4	2	37	53	
224,400	3.994	37	18	17	12	7	4	3	37	53	
224,480	4.009	34	21	18	15	9	6	3	37	53	
224,562	4.009	59	28	25	16	9	6	4	37	53	
224,642	3.872	48	18	15	8	4	4	3	37	53	Trevo Pirapatos (224,600 a 224,960)
224,721	3.886	25	10	8	6	4	3	3	37	53	
224,800	3.987	47	22	18	10	5	4	3	37	53	
224,881	3.973	51	22	18	10	6	4	3	37	53	
224,961	4.009	43	19	15	8	5	4	3	37	53	
225,041	3.937	74	37	33	18	9	5	3	37	53	km 224 = 1080m
225,040	3.987	52	24	21	12	6	4	3	37	53	
225,120	3.966	45	22	19	11	6	4	2	37	53	
225,201	3.951	66	33	29	18	9	6	3	37	53	
225,280	4.002	42	21	19	12	7	4	3	37	53	
225,357	3.973	76	37	32	18	9	6	3	37	53	
225,439	3.966	73	36	33	19	10	6	3	37	53	
225,519	3.958	90	43	39	21	11	6	3	37	53	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
225,599	3.994	54	27	26	18	10	6	4	37	53	
225,681	3.958	88	42	35	18	8	5	3	37	53	
225,761	3.951	86	43	39	23	12	7	4	37	53	
225,842	3.980	60	29	27	17	10	7	4	37	53	
225,920	4.009	33	17	17	11	7	5	4	37	53	km 225 = 1000m
226,000	3.788	64	37	31	19	10	6	4	22	27	
226,086	3.730	73	38	29	15	7	4	3	23	27	
226,161	3.776	69	37	29	17	9	5	3	23	26	
226,241	3.800	63	36	31	19	10	6	3	24	26	
226,321	3.791	61	32	25	14	7	4	3	24	27	
226,400	3.788	64	34	26	15	8	5	3	24	27	
226,482	3.826	31	18	16	12	8	6	4	23	26	
226,560	3.797	38	21	18	13	7	5	3	24	27	
226,642	3.817	20	10	8	5	3	2	2	24	26	
226,721	3.827	15	10	9	6	4	3	2	24	26	
226,801	3.820	29	15	13	8	5	3	2	23	27	
226,880	3.800	34	18	15	10	7	4	3	24	26	
226,961	3.797	37	19	15	9	6	4	3	24	26	km 226 = 1000m
227,043	3.790	35	15	12	8	5	3	2	24	26	
227,120	3.806	32	17	14	9	6	4	2	23	26	
227,201	3.779	34	18	14	9	5	3	2	24	25	
227,281	3.766	36	19	15	9	4	3	2	23	26	
227,360	3.798	31	17	14	10	5	3	2	23	26	
227,441	3.788	25	15	12	8	5	3	2	23	27	
227,523	3.777	32	17	14	9	5	4	3	24	26	
227,600	3.759	48	26	21	11	5	3	2	24	26	
227,681	3.765	49	24	18	9	4	2	2	24	27	
227,762	3.766	37	21	18	10	4	2	1	24	27	
227,842	3.773	30	16	12	5	2	1	1	24	26	
227,922	3.768	20	11	9	5	2	2	2	24	26	km 227 = 1000m
228,002	3.763	33	16	13	8	4	3	2	23	26	
228,080	3.788	32	18	15	9	5	3	2	24	27	
228,161	3.779	23	13	11	7	4	3	2	24	26	
228,241	3.790	31	17	13	8	4	3	2	24	26	
228,322	3.779	37	20	15	9	4	3	2	24	26	
228,402	3.773	25	14	12	8	5	3	2	24	25	
228,481	3.768	24	14	12	8	5	3	2	25	26	
228,562	3.779	33	19	15	9	5	4	3	24	26	
228,641	3.786	27	16	14	9	5	4	2	24	26	
228,720	3.777	32	18	16	11	6	4	3	23	26	
228,800	3.777	24	13	11	6	4	2	2	23	26	
228,882	3.786	36	19	15	8	4	2	2	23	27	
228,963	3.752	31	16	13	8	4	3	3	23	26	km 228 = 1000m
229,040	3.777	20	12	11	7	4	4	3	23	27	
229,121	3.776	17	10	10	7	5	3	2	24	27	
229,201	3.744	48	26	22	13	6	3	2	24	27	
229,282	3.761	23	11	9	7	5	3	2	23	26	
229,362	3.768	26	16	14	9	5	3	2	24	26	
229,440	3.754	16	10	9	6	4	3	2	23	27	
229,517	3.759	27	14	12	7	5	3	2	23	27	
229,600	3.772	19	11	9	6	4	3	2	24	28	
229,678	3.759	25	14	12	7	4	3	2	24	29	
229,758	3.768	32	19	19	13	7	4	3	25	29	
229,839	3.748	26	16	15	11	8	6	4	25	29	
229,920	3.730	57	30	25	16	10	7	5	25	28	km 229 = 990m
230,000	3.704	101	50	39	21	11	7	5	26	28	
230,080	3.638	93	49	36	18	9	5	4	25	29	
230,161	3.690	70	36	23	11	6	3	3	26	29	
230,243	3.690	58	31	25	14	7	4	3	26	29	
230,322	3.743	21	13	13	9	6	4	3	25	28	
230,400	3.707	24	12	10	6	4	3	2	26	27	
230,480	3.709	37	18	12	8	6	4	3	25	28	
230,561	3.638	66	30	22	10	4	4	3	26	28	
230,641	3.705	50	24	19	10	4	3	3	26	28	
230,722	3.730	31	17	15	9	5	4	3	25	28	
230,800	3.696	41	19	16	9	4	3	2	25	28	
231,040	3.702	22	11	9	6	4	2	2	25	28	km 230 = 814m
231,120	3.730	29	14	12	8	4	3	2	25	28	
231,202	3.730	24	14	13	8	5	3	2	24	28	
231,281	3.736	19	12	12	8	5	4	3	25	28	
231,361	3.723	19	10	9	6	4	3	2	24	27	
231,440	3.725	13	8	9	7	5	3	2	25	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
231,520	3.711	20	12	11	8	5	3	2	24	27	
231,600	3.709	23	14	13	9	5	3	2	24	28	
231,681	3.723	13	8	8	6	4	3	2	24	26	
231,761	3.696	16	10	10	8	5	3	2	24	27	
231,840	3.704	21	12	11	7	4	3	2	25	27	
231,923	3.655	66	35	29	18	11	7	5	25	27	
232,001	3.633	46	22	18	10	5	3	2	24	28	
232,081	3.722	29	15	13	9	5	4	2	24	27	
232,160	3.709	36	22	20	13	7	4	3	25	27	km 231 = 1225m
232,081	3.694	38	20	18	13	10	7	5	25	26	
232,161	3.682	50	28	27	19	13	9	6	24	26	
232,244	3.664	72	33	26	15	9	7	5	24	27	
232,322	3.697	24	10	9	7	5	3	2	25	27	
232,400	3.651	54	25	19	10	4	2	2	25	27	
232,481	3.697	28	14	13	8	4	3	2	24	27	
232,561	3.697	28	15	12	8	4	2	2	24	27	
232,642	3.697	30	16	13	8	5	3	2	25	28	
232,722	3.694	20	10	9	6	4	2	2	24	27	
232,800	3.653	36	18	15	9	4	3	2	24	27	
232,880	3.734	19	12	12	8	5	3	2	24	27	
232,961	3.664	47	24	21	12	5	3	3	23	28	km 232 = 1000m
233,040	3.714	19	11	11	7	4	3	2	24	27	
233,121	3.675	25	15	14	10	6	4	2	24	27	
233,200	3.702	17	9	8	5	3	2	2	24	27	
233,281	3.669	37	17	14	8	4	3	2	24	27	
233,361	3.603	107	34	18	8	3	2	2	25	28	
233,441	3.680	26	14	13	8	4	3	2	24	27	
233,521	3.709	21	13	13	9	5	3	2	24	27	
233,602	3.689	29	16	15	10	6	3	2	25	28	
233,682	3.685	28	15	14	8	5	3	3	23	27	
233,761	3.599	29	18	17	11	6	4	2	23	27	
233,845	3.683	34	21	15	9	5	3	2	24	27	
233,920	3.593	46	22	16	7	2	1	1	24	27	km 233 = 1034m
234,000	3.642	83	36	25	11	5	3	3	23	28	
234,082	3.638	27	13	10	6	3	2	2	24	27	
234,161	3.615	40	17	14	9	5	3	2	24	27	
234,241	3.689	22	10	7	5	2	1	1	24	28	
234,323	3.669	45	20	16	10	6	4	2	24	27	
234,401	3.657	24	11	10	7	4	2	1	24	27	
234,483	3.653	33	19	16	10	5	3	2	24	27	
234,561	3.589	75	38	32	20	11	7	4	24	27	
234,641	3.625	65	32	25	14	7	4	3	24	28	
234,720	3.640	38	17	13	7	3	2	2	24	27	
234,802	3.675	37	16	14	9	5	4	3	24	29	
234,880	3.650	70	32	24	12	5	3	3	24	28	
234,962	3.642	36	15	12	7	4	3	2	25	28	km 234 = 1000m
235,041	3.675	45	22	16	8	4	3	2	25	28	
235,120	3.671	42	19	15	8	4	2	2	25	28	
235,204	3.622	52	27	20	9	4	3	2	24	28	
235,286	3.667	34	16	12	7	4	3	2	25	29	
235,360	3.629	41	21	16	9	4	3	2	25	29	
235,445	3.636	36	17	12	8	5	4	3	25	28	
235,522	3.651	38	18	15	9	5	4	3	25	28	
235,602	3.690	30	14	11	7	4	3	3	24	28	
235,685	3.625	42	22	18	13	7	5	4	25	28	
235,762	3.625	41	20	17	12	7	5	4	25	28	
235,842	3.568	58	33	31	21	12	7	5	25	28	
235,920	3.676	24	13	11	8	5	3	3	25	28	km 235 = 1000m
236,001	3.657	67	29	21	9	3	2	2	25	28	
236,081	3.615	44	24	22	15	10	7	5	25	28	
236,162	3.643	32	16	13	8	5	3	2	24	29	
236,240	3.653	31	13	10	7	5	4	3	25	28	
236,320	3.570	62	26	21	12	7	5	4	25	28	
236,402	3.574	73	38	34	23	15	11	7	24	28	
236,480	3.606	69	30	22	13	9	7	4	25	28	
236,560	3.696	24	14	12	8	4	3	2	26	28	
236,640	3.700	33	16	13	8	5	3	2	25	28	
236,720	3.658	34	17	14	9	5	3	2	25	28	
236,801	3.648	38	21	18	11	6	4	3	25	28	
236,880	3.636	36	18	15	9	5	3	2	24	29	
236,961	3.615	36	20	16	10	5	3	2	25	28	
237,043	3.672	29	16	14	9	6	4	2	25	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
237,122	3.606	56	27	21	12	7	4	3	26	29	
237,201	3.615	45	21	17	11	6	4	3	25	28	km 236 = 1270m
237,040	3.660	34	18	16	11	6	4	3	25	28	
237,121	3.665	49	22	17	10	5	3	2	25	28	
237,202	3.631	32	17	15	9	4	3	2	25	29	
237,283	3.648	27	14	12	8	5	3	2	25	28	
237,365	3.676	33	17	14	8	4	3	2	25	27	
237,441	3.629	58	24	13	8	4	2	2	26	28	
237,522	3.633	31	16	15	9	5	3	3	24	29	
237,602	3.618	37	20	17	11	5	2	2	24	29	
237,685	3.682	41	20	17	10	4	2	2	24	29	
237,762	3.714	24	12	10	7	4	3	2	25	29	km 237 = 820m
238,080	3.737	19	11	10	6	4	3	3	25	29	
238,160	3.761	15	8	8	5	3	2	2	24	28	
238,241	3.682	14	9	8	6	4	3	2	25	29	
238,319	3.665	16	9	8	5	3	3	2	25	29	
238,400	3.648	23	13	7	4	3	2	2	25	28	
238,483	3.705	17	9	9	6	4	3	2	25	28	
238,540	3.672	34	17	14	8	5	2	2	24	29	
238,722	3.640	50	24	21	12	6	4	3	25	28	
238,802	3.700	27	14	12	8	4	3	2	25	29	
238,883	3.671	26	14	14	9	5	4	2	25	29	km 238 = 935m
239,040	3.692	39	21	18	9	4	2	2	25	29	
239,122	3.665	38	17	14	8	4	3	2	24	28	
239,201	3.704	25	14	12	7	4	4	2	24	28	
239,280	3.640	64	27	17	10	5	3	2	25	29	
239,365	3.700	22	12	11	7	4	2	2	25	28	
239,441	3.689	17	11	10	6	3	2	2	25	28	
239,520	3.650	38	22	20	12	5	3	2	25	29	
239,602	3.669	14	7	6	5	4	3	2	25	28	
239,680	3.683	21	12	12	9	6	4	3	24	29	
239,762	3.711	26	16	15	11	6	4	3	25	29	
239,842	3.687	31	17	16	10	6	3	3	25	28	
239,920	3.702	23	12	11	8	5	3	2	24	28	km 239 = 985m
240,080	3.726	31	16	13	7	4	3	2	25	29	
240,161	3.739	28	16	14	9	5	3	2	25	29	
240,244	3.730	16	10	10	7	4	3	2	25	28	
240,320	3.697	36	18	15	9	6	4	3	25	28	
240,401	3.746	21	12	12	8	5	3	3	25	28	
240,481	3.741	24	12	10	6	3	3	2	25	29	
240,561	3.743	18	11	11	7	5	3	2	24	29	
240,640	3.694	25	12	10	5	4	2	2	25	29	
240,720	3.737	14	9	8	5	3	3	2	25	29	
240,805	3.722	17	9	8	5	3	3	2	24	29	
240,881	3.746	17	9	8	6	4	3	2	25	29	
240,962	3.716	13	7	6	5	4	3	3	25	29	km 240 = 1013m
241,040	3.734	12	6	6	4	3	2	2	27	32	
241,121	3.687	51	19	12	5	2	2	2	28	34	
241,203	3.725	20	10	9	6	4	3	2	28	33	
241,284	3.746	25	15	13	8	5	3	2	28	32	
241,362	3.737	23	11	8	4	2	2	1	27	33	
241,440	3.732	27	14	13	8	6	4	2	28	34	
241,522	3.725	27	15	14	9	6	3	2	28	34	
241,603	3.675	33	20	19	14	9	6	4	27	34	
241,680	3.608	55	35	34	26	16	11	7	27	31	
241,760	3.655	41	22	20	14	10	7	5	28	33	
241,841	3.650	59	31	27	17	10	6	4	28	30	
241,921	3.707	36	18	14	7	4	4	3	27	33	km 241 = 1000m
242,002	3.683	18	10	10	7	4	3	2	27	31	
242,082	3.705	30	16	13	6	2	1	1	27	34	
242,161	3.655	35	20	16	9	3	3	2	28	28	
242,240	3.682	24	15	15	11	7	4	2	27	29	
242,325	3.665	32	17	15	9	5	3	3	27	29	
242,405	3.664	26	15	14	10	7	4	3	27	30	
242,484	3.625	73	36	31	21	13	9	6	27	27	
242,561	3.671	42	23	20	12	7	5	3	27	32	
242,643	3.642	45	18	15	9	5	3	3	28	31	
242,720	3.645	82	37	30	17	9	6	3	28	31	
242,812	3.657	57	30	24	15	9	6	4	28	31	
242,886	3.651	51	23	18	13	9	6	4	27	31	
242,963	3.667	42	21	18	11	7	4	3	28	30	km 242 = 1000m
243,045	3.617	55	25	21	14	9	6	5	28	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
243,126	3.574	75	37	28	16	9	5	3	28	29	
243,201	3.611	71	33	26	13	8	4	3	27	28	
243,280	3.624	69	27	16	9	6	5	3	28	31	
243,361	3.716	19	11	11	8	5	4	2	27	31	
243,442	3.658	27	16	16	12	7	5	4	27	30	
243,522	3.640	115	49	26	11	4	3	1	27	30	
243,600	3.651	35	19	18	12	7	5	4	28	30	
243,679	3.671	41	23	20	13	6	3	3	28	31	
243,764	3.676	37	20	17	11	7	5	3	27	30	
243,841	3.660	52	27	23	14	8	5	3	27	31	
243,926	3.621	72	38	37	26	14	8	5	27	31	km 243 = 1136m
244,000	3.651	37	25	24	19	13	8	4	27	34	
244,086	3.640	44	29	28	22	14	9	5	28	28	
244,080	3.911	153	98	87	57	27	14	8	23	30	
244,160	3.845	165	106	98	75	51	29	21	23	30	
244,240	4.238	41	28	26	19	12	7	4	23	30	
244,325	4.170	62	43	42	32	21	13	8	23	30	
244,400	4.188	61	37	32	22	14	9	6	23	30	
244,484	4.159	69	46	41	28	16	9	5	23	30	
244,561	4.132	55	39	39	32	24	18	13	23	30	
244,640	4.155	36	22	20	13	8	5	3	23	30	
244,720	4.174	31	21	20	15	11	8	5	23	30	
244,801	4.136	43	29	27	20	13	8	5	23	30	
244,880	4.154	45	31	28	20	11	7	5	23	30	
244,961	4.094	85	53	43	27	19	13	8	23	30	km 244 = 1000m
245,040	4.075	85	55	49	32	20	14	9	23	30	
245,121	3.989	111	65	53	37	25	17	10	23	30	
245,204	3.960	122	70	56	39	21	11	9	23	30	
245,279	4.154	44	35	29	11	7	4	2	23	30	
245,360	4.103	67	45	41	30	20	13	8	23	30	
245,440	3.979	118	76	62	37	17	9	6	23	30	
245,520	4.019	141	74	57	35	18	11	6	23	30	
245,580	4.150	45	30	27	19	11	7	5	23	30	
245,661	4.147	49	29	25	16	9	5	4	24	30	
245,760	4.125	59	37	33	22	13	8	4	24	30	
245,842	4.144	59	38	33	21	11	5	2	23	30	km 245 = 870m
246,082	3.878	163	97	83	51	26	15	9	24	30	
246,164	4.129	51	32	31	23	16	10	7	24	30	
246,244	3.867	140	78	64	45	25	11	5	23	30	
246,322	4.144	28	20	19	15	10	8	5	23	30	
246,400	4.110	40	30	30	25	18	13	8	23	30	
246,483	4.147	29	23	22	19	15	11	8	24	30	
246,562	4.054	70	44	35	26	18	13	9	24	30	
246,643	4.075	50	36	36	28	20	13	8	24	30	
246,725	4.040	60	42	40	31	21	14	9	23	30	
246,801	4.071	56	40	40	31	22	15	10	24	30	
246,887	4.093	49	37	36	30	22	16	10	24	30	
246,960	4.071	67	50	49	38	22	14	8	24	30	km 246 = 960m
247,040	4.139	22	15	15	12	9	7	5	24	30	
247,121	3.977	102	48	46	32	21	15	10	24	30	
247,200	4.141	44	27	24	16	10	6	3	24	30	
247,280	4.113	39	27	27	21	15	11	7	24	30	início de ponte km 247,298
247,524	4.107	31	22	21	17	12	9	6	24	30	fim de ponte km 247,447
247,600	3.972	89	55	54	38	24	15	10	24	30	
247,681	4.031	54	34	30	20	11	6	3	24	30	
247,761	3.968	68	43	39	27	17	10	6	24	30	
247,822	4.100	56	33	29	18	10	6	4	24	30	km 247 = 902m
248,081	4.066	78	46	40	27	16	10	6	25	30	
248,162	4.141	44	26	22	15	9	7	5	24	30	
248,241	4.078	75	43	37	24	14	9	5	25	30	
248,321	4.123	40	24	22	15	10	6	4	24	30	
248,402	4.129	33	18	15	10	6	4	2	24	30	
248,481	4.105	62	35	29	18	10	6	4	25	30	
248,563	4.075	76	45	37	23	13	7	5	24	30	
248,644	4.129	28	15	11	6	2	1	1	24	30	
248,724	4.118	14	8	7	5	3	2	1	24	30	
248,800	4.115	27	12	9	5	2	1	1	25	30	
248,879	4.115	20	10	8	5	3	2	1	25	30	
248,957	4.073	41	32	30	27	21	16	11	25	30	km 248 = 1020m
249,044	4.094	28	19	18	14	10	7	5	24	30	
249,121	4.094	28	17	16	12	9	7	5	25	30	
249,202	4.105	35	19	16	11	7	6	4	25	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
249,281	4.139	19	12	12	9	6	5	4	25	30	
249,362	4.147	46	26	22	14	7	4	2	25	30	
249,444	4.129	19	13	13	11	8	7	5	25	30	
249,527	4.167	11	7	7	6	5	4	3	25	30	
249,602	4.141	28	15	13	10	7	5	3	25	30	
249,680	4.107	28	17	15	9	5	4	2	25	30	
249,761	4.058	63	44	42	33	23	16	11	25	30	
249,846	3.985	65	41	37	27	18	12	7	25	30	
249,921	4.069	41	24	20	10	7	5	3	24	30	km 249 = 984m
250,001	4.113	40	23	20	13	9	5	3	25	30	
250,082	4.035	72	37	25	14	8	5	3	25	30	
250,162	4.051	35	21	19	13	9	7	5	24	30	
250,239	4.096	20	13	12	10	7	5	3	25	30	
250,323	4.083	26	17	16	11	7	4	2	24	30	
250,402	4.087	18	9	7	5	3	1	1	25	30	
250,483	4.075	34	18	14	9	5	3	2	25	30	
250,564	4.093	17	10	6	3	2	1	1	25	30	
250,640	4.115	9	6	6	4	4	3	2	25	30	
250,721	4.090	47	21	13	5	2	1	1	25	30	
250,800	4.100	29	13	8	3	2	1	1	25	30	
250,881	4.083	22	17	16	15	12	9	6	25	30	
250,961	4.087	23	14	13	12	10	9	6	25	30	km 250 = 1017m
251,042	4.046	52	26	21	14	8	5	3	25	30	
251,121	3.985	57	31	26	18	11	7	4	25	30	
251,268	3.953	62	31	26	16	9	6	3	25	30	
251,281	3.995	56	21	10	8	5	3	2	25	30	
251,361	4.035	31	21	17	12	5	4	3	25	30	
251,441	3.982	75	40	33	22	14	9	5	25	30	
251,525	3.960	85	45	38	27	17	12	8	25	30	
251,600	4.031	28	21	20	17	12	8	5	25	30	
251,680	3.935	55	39	39	29	18	11	6	25	30	
251,761	4.022	57	35	31	21	13	8	5	24	30	
251,842	3.977	69	43	39	26	15	9	4	25	30	
251,920	3.920	106	68	63	46	31	20	12	25	30	km 251 = 945m
252,000	3.988	53	36	37	27	19	13	8	25	30	
252,080	4.006	64	39	34	22	11	7	4	25	30	
252,161	4.054	25	20	19	17	13	10	7	24	30	
252,242	4.061	8	6	6	6	5	5	4	25	30	
252,320	4.021	46	30	28	20	13	8	5	25	30	
252,403	4.093	58	36	32	22	14	9	6	24	30	
252,483	4.021	67	38	35	28	19	15	10	24	30	
252,561	4.036	73	50	45	35	22	15	10	25	30	
252,644	4.058	70	36	30	20	12	7	4	24	30	
252,726	4.061	59	38	34	23	15	11	8	24	30	
252,800	4.015	84	54	45	30	18	11	7	24	30	
252,881	4.006	61	35	32	24	17	12	8	24	30	
252,961	4.068	55	38	31	19	10	6	4	24	30	km 252 = 1000m
253,043	3.999	78	49	40	27	15	9	7	24	30	
253,200	4.021	80	48	40	25	14	9	6	25	30	fim de ponte km 252,103
253,281	4.053	50	29	25	17	12	9	6	25	30	
253,360	3.995	89	47	39	23	12	8	6	24	30	
253,441	4.046	42	26	24	18	13	9	6	24	30	
253,525	4.066	59	29	22	14	7	4	3	24	30	
253,601	4.006	62	30	26	18	13	9	6	25	30	
253,684	4.004	66	39	36	27	19	13	9	24	30	
253,764	4.006	79	46	39	25	14	8	4	24	30	
253,842	3.982	70	42	37	25	15	8	4	24	30	
253,921	3.938	97	58	51	35	22	13	6	24	30	km 253 = 930m
254,000	3.943	120	70	60	41	24	13	6	24	30	
254,082	4.051	64	38	31	20	11	7	4	24	30	
254,163	3.950	109	59	52	36	22	15	9	24	30	
254,245	3.992	99	64	54	37	22	14	9	25	30	
254,320	4.031	84	48	39	25	14	8	6	25	30	
254,402	4.107	42	20	16	11	7	5	4	25	30	
254,480	4.096	61	31	24	13	7	5	3	25	30	
254,562	4.068	62	33	25	15	9	6	4	25	30	
254,641	4.054	57	35	27	17	11	8	6	25	30	
254,720	4.069	58	33	26	17	11	8	5	25	30	
254,805	4.080	37	19	16	9	5	3	2	25	30	
254,881	4.035	56	35	21	9	4	3	2	25	30	
254,971	4.029	55	28	22	11	6	4	3	25	30	km 254 = 1057m
255,041	4.022	64	29	20	10	6	4	2	25	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
255,040	4.028	53	21	13	7	3	2	2	25	30	
255,125	4.080	55	30	20	10	5	4	3	25	34	
255,206	4.080	43	25	18	8	5	3	2	25	34	
255,280	4.066	67	36	26	11	3	2	2	26	34	
255,364	4.007	52	29	23	11	3	2	1	26	34	
255,449	4.058	58	33	21	10	4	2	2	25	34	
255,521	4.125	25	16	15	10	5	3	2	25	34	
255,600	4.120	26	17	13	8	3	2	2	26	34	
255,681	4.094	31	18	14	8	4	3	2	26	34	
255,761	4.075	48	23	18	10	5	3	2	26	34	
255,847	4.039	81	43	30	14	6	3	3	26	34	
255,930	3.988	80	35	29	14	5	1	1	26	34	km 255 = 1000m
256,001	4.056	63	39	31	16	7	4	3	26	34	
256,080	4.033	60	29	23	12	6	5	3	26	34	
256,167	4.015	82	39	25	11	5	4	3	26	34	
256,241	4.053	78	45	32	14	6	3	3	26	34	
256,328	4.078	36	21	17	9	4	2	2	26	34	
256,405	4.015	61	33	24	13	6	4	2	26	34	
256,481	3.981	77	43	36	15	6	3	2	26	34	
256,563	4.069	32	16	11	5	2	2	1	26	34	
256,643	4.068	40	21	13	9	5	3	3	26	34	
256,721	4.033	44	23	15	7	4	3	2	26	34	
256,802	4.080	51	30	19	8	3	1	1	26	34	
256,880	4.040	33	17	12	6	2	2	2	27	34	
256,962	4.056	42	24	16	7	3	1	1	26	34	km 256 = 1000m
257,041	4.058	41	20	16	10	5	4	3	27	34	
257,125	4.021	58	28	20	10	5	4	3	26	34	
257,200	3.968	78	42	33	18	8	5	3	26	34	
257,289	4.061	150	36	23	11	5	2	2	26	34	
257,364	4.118	46	26	20	9	4	2	2	26	34	
257,442	4.056	64	27	19	9	5	3	2	26	34	
257,529	4.108	35	19	15	9	4	3	2	26	34	
257,608	4.007	67	34	27	16	9	6	5	26	34	
257,688	4.033	65	39	30	16	9	6	5	26	34	
257,770	4.064	67	34	25	13	6	5	4	26	34	
257,847	4.051	55	24	16	7	4	2	2	26	34	
257,923	4.039	88	51	40	23	11	7	5	26	34	km 257 = 1000m
258,000	3.981	112	63	45	24	11	7	5	26	34	
258,080	4.000	55	29	20	11	5	3	3	26	34	
258,166	4.075	25	16	13	8	5	3	3	26	34	
258,247	4.068	28	18	16	10	4	2	2	26	34	
258,321	4.028	62	30	22	10	5	4	3	26	34	
258,402	4.035	68	31	22	10	4	3	3	26	34	
258,482	4.076	37	21	17	9	5	3	2	26	34	
258,571	4.049	60	32	20	10	4	3	2	26	34	
258,646	4.082	38	21	17	10	5	3	2	26	34	
258,730	3.993	87	51	44	24	10	5	2	26	34	
258,800	4.010	74	33	18	9	4	3	3	26	34	km 258 = 850m
259,040	4.088	55	26	19	9	5	4	2	25	31	
259,120	4.095	47	24	16	7	3	2	2	26	31	
259,200	4.117	36	19	15	8	4	3	2	26	31	
259,280	4.117	49	24	16	8	4	4	3	26	31	
259,360	4.095	72	33	20	8	3	2	2	26	31	
259,441	4.131	31	15	12	7	4	3	2	26	31	
259,520	4.066	110	40	27	9	4	1	1	26	31	
259,602	4.139	56	19	12	6	2	1	1	26	31	
259,680	4.088	62	24	14	6	3	2	1	26	31	
259,761	4.081	59	32	17	8	3	2	1	26	31	
259,841	4.088	57	28	20	9	5	3	2	26	31	
259,923	4.088	59	27	19	11	5	4	3	26	31	km 259 = 1060m
260,000	4.066	53	24	15	8	5	3	2	26	31	
260,000	4.124	51	29	18	9	4	3	2	27	31	
260,081	4.052	107	44	23	11	4	2	2	26	31	
260,160	4.088	66	39	23	11	4	2	2	26	32	
260,242	4.102	62	35	27	14	6	3	2	26	32	
260,320	4.102	40	24	16	7	3	2	1	26	32	
260,403	4.095	35	20	14	5	2	2	1	26	32	
260,481	4.081	70	33	22	12	6	3	2	26	32	
260,560	4.066	66	34	27	15	6	3	1	27	32	
260,641	4.124	33	19	15	9	5	3	2	26	32	
260,721	4.066	76	39	28	14	6	4	3	27	32	
260,802	4.102	80	36	21	11	6	5	3	27	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
260,883	4,081	85	43	30	13	5	3	2	27	32	
260,961	4,023	112	61	32	18	6	4	3	27	32	km 260 = 1000m
261,041	4,038	59	34	26	13	6	4	2	27	32	
261,120	4,074	52	24	17	8	3	2	1	27	33	
261,200	4,081	62	28	17	8	3	1	1	27	33	
261,280	4,117	28	18	17	11	5	4	3	26	33	
261,361	4,074	47	21	15	8	4	2	1	27	33	
261,441	4,052	63	28	13	5	2	2	2	27	33	
261,521	4,095	35	22	19	11	5	3	2	27	33	
261,601	4,131	28	16	14	9	5	3	2	27	33	
261,680	4,088	33	18	14	7	4	3	2	27	33	
261,760	4,139	32	20	17	11	6	3	4	27	33	
261,841	4,146	38	22	18	9	4	3	2	27	33	
261,920	4,139	30	15	11	6	3	2	2	28	34	km 261 = 1000m
262,000	4,124	32	17	12	6	3	2	1	28	34	
262,081	4,059	29	15	12	7	3	3	2	27	34	
262,160	4,081	27	16	13	7	4	3	2	28	34	
262,240	4,088	26	15	11	5	3	1	1	28	34	
262,321	4,066	39	19	15	7	4	2	2	28	34	
262,400	4,074	28	16	13	8	4	3	2	27	34	
262,480	4,074	71	34	22	10	4	2	2	28	34	
262,560	4,102	38	19	14	6	2	2	2	28	34	
262,640	4,038	51	30	18	8	4	2	2	28	34	
262,720	4,110	48	25	18	8	3	2	2	28	34	
262,801	4,016	76	46	26	13	5	2	2	28	34	
262,880	4,117	29	17	13	7	3	3	2	28	34	
262,960	3,980	59	33	22	12	5	3	3	28	34	km 262 = 1000m
263,041	4,023	76	37	27	13	6	3	1	28	34	
263,120	4,088	66	35	27	14	6	3	2	28	34	
263,200	3,929	73	30	19	9	5	4	3	28	34	
263,280	4,038	40	19	13	5	3	3	2	28	34	
263,361	4,030	54	26	16	9	4	2	2	28	34	
263,441	4,016	46	20	13	7	4	3	2	28	34	
263,521	4,059	54	23	14	7	3	2	1	27	34	
263,600	4,030	43	24	15	9	5	3	2	28	34	
263,680	4,081	47	25	18	9	4	2	2	28	34	
263,760	4,074	41	22	16	8	3	2	1	28	34	
263,840	4,066	54	33	20	7	2	1	1	28	34	
263,920	4,095	65	35	25	11	4	2	2	28	34	km 263 = 1000m
264,001	4,110	42	21	15	7	3	2	2	28	34	
264,081	4,052	51	23	17	10	5	4	3	28	34	
264,162	4,131	36	21	16	8	4	3	2	28	34	
264,240	4,110	26	16	13	8	4	3	2	28	34	
264,321	4,088	38	17	13	8	3	2	2	28	34	
264,402	4,038	66	37	26	12	5	3	2	27	34	
264,481	4,023	111	43	22	11	6	3	2	27	34	
264,562	4,009	70	32	22	11	5	3	3	27	34	
264,640	3,987	70	31	21	11	6	4	3	27	34	
264,721	4,102	39	24	21	13	7	5	4	27	34	
264,803	4,102	48	25	20	11	7	4	3	27	34	
264,882	4,102	54	27	20	10	4	3	2	28	34	
264,962	4,117	41	24	21	12	6	4	3	27	36	km 264 = 1000m
265,040	4,016	75	35	25	12	6	4	3	27	36	
265,123	3,958	62	29	22	11	5	4	3	28	36	
265,200	3,980	74	40	26	14	6	4	3	28	36	
265,282	4,002	35	22	21	15	10	6	4	28	36	
265,360	3,987	88	53	44	23	10	7	4	28	36	
265,441	3,973	53	31	31	23	15	10	7	28	36	
265,520	3,973	43	29	27	20	12	8	5	28	36	
265,603	3,987	53	32	29	18	9	5	4	28	36	
265,683	4,002	36	23	22	16	11	7	4	28	36	
265,760	3,937	124	68	58	35	14	9	6	28	36	
265,840	3,872	140	78	65	37	18	9	6	28	36	
265,920	3,973	62	36	33	23	14	9	7	28	36	km 265 = 1000m
266,000	4,009	38	22	21	15	9	6	4	28	36	
266,080	4,009	37	21	19	14	8	5	3	28	36	
266,160	4,023	33	21	19	13	7	4	3	28	36	
266,240	4,009	26	16	15	12	8	6	4	28	36	
266,320	4,023	58	36	30	18	9	5	4	28	38	
266,400	4,016	51	28	22	12	6	3	2	28	38	
266,480	4,045	58	32	24	13	5	3	3	28	38	
266,561	4,030	52	26	20	11	5	3	2	28	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
266,640	4.002	67	36	27	17	11	8	6	28	38	
266,720	3.987	89	52	46	31	19	14	10	28	38	
266,800	3.893	117	72	66	44	25	15	9	28	38	
266,880	4.038	53	29	23	12	7	6	5	28	38	
266,960	4.095	34	17	14	9	5	3	3	28	38	km 266 = 1065m
267,040	4.002	84	31	26	16	9	5	5	28	38	
267,040	4.074	61	34	28	16	8	5	4	28	38	
267,120	4.045	56	33	29	19	10	6	4	28	38	
267,202	3.893	100	62	53	36	26	17	11	28	38	
267,280	3.987	89	56	54	38	23	14	9	28	38	
267,360	4.059	61	34	29	17	9	6	5	28	38	
267,440	4.016	77	41	30	17	9	6	4	28	38	
267,521	4.045	57	34	31	21	13	9	5	28	38	
267,601	3.973	94	63	49	27	15	10	6	28	38	
267,680	3.908	105	79	66	44	29	19	12	28	38	
267,760	3.966	80	50	42	24	13	9	6	28	38	
267,840	4.030	50	38	36	30	20	12	7	28	38	
267,920	3.958	105	59	42	15	12	9	5	28	38	km 267 = 1000m
268,000	3.934	112	64	56	32	15	9	5	26	34	
268,083	3.974	108	67	56	34	16	7	5	26	34	
268,162	3.932	112	69	60	35	17	9	5	26	34	
268,240	4.108	37	23	21	14	8	5	3	26	34	
268,323	4.125	26	17	16	13	9	6	4	26	34	
268,406	4.090	19	15	13	12	9	7	5	26	34	
268,487	3.982	99	61	47	29	11	5	1	26	34	
268,562	3.797	176	98	87	55	29	16	9	26	34	
268,641	3.770	205	115	97	63	32	17	7	26	34	
268,720	3.967	112	72	57	28	12	5	2	27	34	
268,805	3.932	106	74	65	34	14	8	5	26	34	
268,882	4.002	31	24	22	18	13	9	5	27	34	
268,960	3.943	116	79	72	45	23	15	9	27	34	km 268 = 1000m
269,039	3.930	118	68	55	34	19	12	7	27	34	
269,124	3.955	75	44	40	25	12	7	5	27	34	
269,200	3.981	127	66	49	32	17	10	5	27	34	
269,284	4.010	108	60	51	27	12	6	2	27	34	
269,362	3.923	138	76	50	32	18	10	6	27	34	
269,439	3.896	141	77	61	43	26	17	10	27	34	
269,524	3.914	125	69	48	30	18	12	7	27	34	
269,600	4.062	50	28	25	17	10	7	4	27	34	
269,680	4.019	72	47	46	34	22	14	9	27	34	
269,760	3.934	116	54	47	27	17	10	4	27	34	
269,840	4.051	47	25	21	12	5	1	0	27	34	
269,922	3.871	113	77	71	50	31	19	13	27	34	km 269 = 1000m
270,004	4.068	61	38	36	26	16	11	8	27	34	
270,087	4.042	81	48	45	30	17	10	6	27	34	
270,157	4.049	65	39	37	25	14	8	5	28	34	
270,242	4.056	65	41	38	26	15	8	5	28	34	
270,323	4.116	19	13	12	10	7	4	3	27	34	
270,399	4.141	17	10	10	7	5	3	2	28	34	
270,480	4.120	31	17	15	9	5	3	2	27	34	
270,560	4.141	27	15	13	8	5	3	2	28	34	
270,641	4.122	27	14	12	8	5	3	2	28	34	
270,722	4.129	26	14	11	7	4	2	2	28	34	
270,800	4.103	34	18	15	9	5	4	2	28	34	
270,885	4.137	27	15	14	10	5	3	2	28	34	
270,964	4.061	38	23	23	16	10	7	5	28	34	km 270 = 1000m
271,049	4.116	16	9	9	6	4	3	2	28	34	
271,120	4.100	22	11	11	8	6	5	3	28	34	
271,200	4.115	13	8	8	6	5	4	2	28	34	
271,284	4.113	27	18	18	13	9	5	3	28	34	
271,360	4.130	18	12	11	8	5	3	2	28	34	
271,441	4.101	46	27	24	17	10	6	4	28	34	
271,527	4.085	36	22	21	15	9	6	4	28	34	
271,603	4.129	11	7	6	5	4	3	2	28	34	
271,682	4.103	23	16	16	13	10	8	6	28	34	
271,763	4.139	10	7	7	6	5	4	3	28	34	
271,841	4.130	9	5	5	4	4	3	2	28	34	
271,920	4.116	12	8	7	6	5	4	3	28	34	km 271 = 1000m
272,000	4.129	10	6	6	5	4	3	2	28	34	
272,001	4.468	10	8	7	6	5	4	3	22	27	
272,080	4.410	18	14	12	9	7	5	4	23	27	
272,160	4.401	43	34	28	20	12	7	5	23	26	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
272,241	4.403	24	19	16	12	8	5	3	24	26	
272,320	4.408	7	6	5	5	4	4	3	24	27	
272,400	4.413	22	18	15	12	8	6	4	24	27	
272,481	4.402	11	9	8	7	6	5	4	23	26	
272,559	4.386	17	14	13	10	8	6	4	24	27	
272,640	4.413	12	10	9	8	6	5	4	24	26	
272,721	4.385	23	18	16	13	9	7	5	24	26	
272,800	4.379	18	15	13	10	7	5	4	23	27	
272,881	4.366	21	16	14	11	8	6	4	24	26	
272,960	4.386	11	9	8	8	7	5	4	24	26	km 272 = 990m
273,440	4.362	12	9	8	6	5	4	3	24	26	início de ponte km 273,010
273,519	4.366	19	15	14	12	10	8	7	23	26	fim de ponte km 273,360
273,599	4.371	12	9	8	6	5	4	3	24	25	
273,680	4.363	21	16	14	11	8	6	4	23	26	
273,762	4.332	18	14	13	10	7	5	4	23	26	
273,840	4.352	13	11	10	8	6	5	4	23	27	
273,920	4.311	36	28	24	19	13	10	7	24	26	
274,001	4.336	38	27	22	16	12	8	5	24	26	
274,080	4.334	29	18	14	9	6	4	2	24	27	km 273 = 1135m
274,080	4.332	29	16	11	7	4	2	1	24	27	
274,160	4.331	49	33	25	17	11	6	4	24	26	
274,240	4.345	35	24	19	14	10	7	5	24	26	
274,320	4.330	51	34	27	20	14	10	8	23	26	
274,401	4.327	37	26	21	14	9	6	4	24	27	
274,481	4.361	28	20	17	11	7	5	4	24	26	
274,562	4.339	41	30	25	17	12	8	5	24	26	
274,640	4.361	21	18	15	11	8	6	5	24	26	
274,719	4.343	15	12	11	10	8	7	5	24	25	
274,800	4.326	40	30	24	17	10	7	5	25	26	
274,880	4.344	21	16	14	11	8	6	4	24	26	
274,960	4.302	47	38	34	28	22	16	12	24	26	km 274 = 1000m
275,041	4.287	80	63	55	42	30	21	13	23	26	
275,119	4.276	66	52	45	36	27	19	13	23	26	
275,201	4.286	82	65	56	44	33	24	17	23	27	
275,279	4.327	40	28	22	15	10	7	5	23	26	
275,360	4.309	45	31	24	17	11	7	5	23	27	
275,440	4.323	30	19	14	10	7	5	4	24	27	
275,521	4.316	36	24	17	11	6	4	4	24	27	
275,601	4.292	40	27	20	13	8	6	5	23	26	
275,682	4.326	41	28	22	16	11	8	6	24	26	
275,760	4.301	37	25	20	14	10	8	7	23	27	
275,841	4.272	65	46	37	27	19	15	11	23	27	
275,921	4.244	83	63	52	37	25	17	12	24	28	km 275 = 1000m
276,001	4.303	69	52	42	30	20	13	9	24	29	
276,079	4.335	82	61	49	34	21	13	8	25	29	
276,160	4.335	71	50	39	26	17	12	8	25	29	
276,238	4.342	53	38	30	22	15	10	7	25	28	
276,319	4.343	48	28	20	15	12	9	7	26	28	
276,401	4.311	62	34	22	13	9	8	6	25	29	
276,480	4.280	106	74	55	38	26	18	11	26	29	
276,560	4.317	62	45	34	21	12	7	5	26	29	
276,642	4.226	127	104	88	67	45	30	18	25	28	
276,720	4.335	22	15	12	8	5	3	2	26	27	
276,801	4.331	46	32	24	15	8	5	3	25	28	
276,881	4.284	89	68	55	39	23	11	4	26	28	
276,960	4.311	63	45	34	21	11	5	3	26	28	km 276 = 1000m
277,040	4.311	53	41	34	25	16	10	5	25	28	
277,120	4.294	58	38	27	16	8	4	2	25	28	
277,201	4.325	60	41	32	22	14	9	7	25	28	
277,281	4.331	14	12	11	10	8	7	5	25	28	
277,361	4.315	50	34	26	16	9	5	3	24	28	
277,439	4.306	55	38	28	17	8	4	2	25	28	
277,519	4.281	62	46	36	25	15	10	7	24	27	
277,601	4.304	63	44	34	21	11	6	4	25	28	
277,680	4.246	78	55	40	24	11	4	2	24	27	
277,760	4.265	63	44	34	22	13	8	5	24	28	
277,840	4.329	27	17	13	8	5	3	2	24	26	
277,920	4.313	19	14	12	9	7	5	4	24	27	km 277 = 990m
277,998	4.304	58	41	31	20	12	7	4	25	27	
278,082	4.277	75	55	44	30	20	13	9	25	27	
278,160	4.239	105	83	70	51	33	21	14	24	28	
278,238	4.282	72	56	46	34	22	14	9	24	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
278,321	4.302	49	37	29	20	12	8	5	25	27	
278,401	4.293	60	46	37	25	15	9	6	25	26	
278,481	4.252	80	60	46	31	19	11	7	24	26	
278,562	4.333	35	25	21	15	10	7	5	24	27	
278,640	4.335	46	35	28	20	13	9	6	25	27	
278,722	4.351	48	36	28	18	11	7	5	25	27	
278,800	4.293	42	30	24	17	12	9	7	24	27	
278,879	4.300	34	24	19	13	9	7	5	24	27	
278,962	4.295	57	38	28	17	10	8	6	25	28	km 278 = 1017m
279,040	4.306	64	46	37	26	18	13	10	24	27	
279,119	4.249	100	72	57	40	27	19	12	24	27	
279,203	4.247	100	78	65	49	34	23	15	24	27	
279,280	4.308	39	24	16	8	5	4	3	23	28	
279,360	4.292	78	50	35	19	8	4	2	24	27	
279,441	4.292	25	15	11	6	4	3	2	24	27	
279,519	4.336	35	23	16	10	6	4	4	24	27	
279,601	4.306	31	20	14	8	5	3	3	24	27	
279,679	4.344	23	13	10	6	5	4	3	25	28	
279,760	4.315	38	25	18	10	5	3	2	24	27	
279,841	4.300	38	23	14	8	5	4	3	24	27	
279,921	4.297	38	24	17	9	5	3	3	25	28	km 279 = 985m
280,000	4.317	27	16	10	5	3	3	2	23	27	
280,081	4.327	27	20	15	10	6	5	4	23	27	
280,160	4.297	32	22	16	11	7	5	3	24	27	
280,240	4.298	25	17	12	6	4	3	2	24	27	
280,323	4.295	22	14	10	4	1	1	1	23	28	
280,399	4.286	52	36	27	16	9	5	4	24	27	
280,480	4.293	36	24	18	10	6	4	4	24	27	
280,563	4.279	32	22	17	11	7	5	4	24	28	
280,640	4.300	27	17	13	7	4	3	2	24	27	
280,721	4.303	40	26	19	11	5	3	2	24	27	
280,801	4.308	41	29	21	13	7	4	3	24	27	
280,881	4.277	47	32	23	15	9	6	5	24	27	
280,959	4.259	68	48	37	23	13	8	5	24	28	km 280 = 1000m
281,041	4.279	37	29	24	18	12	8	5	24	27	
281,121	4.281	18	13	11	8	6	4	3	24	29	
281,199	4.312	23	17	15	11	7	5	4	24	28	
281,280	4.313	29	22	19	14	9	6	4	25	28	
281,360	4.290	32	22	17	11	7	5	3	25	28	
281,442	4.293	44	34	28	21	14	9	6	25	28	
281,521	4.322	26	18	14	10	6	4	3	24	28	
281,599	4.279	53	37	28	17	10	6	4	25	29	
281,680	4.276	43	28	21	12	7	5	4	25	29	
281,760	4.270	45	30	22	14	8	5	4	25	28	
281,842	4.279	30	20	15	11	8	6	4	25	28	
281,920	4.308	21	14	10	6	4	3	3	24	28	km 281 = 1000m
282,000	4.344	12	8	6	5	5	4	4	25	28	
282,082	4.327	24	15	11	6	4	3	2	25	28	
282,160	4.329	23	14	10	6	4	3	2	25	28	
282,240	4.317	23	15	11	6	4	2	2	25	28	
282,319	4.327	12	7	6	4	3	3	2	25	28	
282,401	4.306	23	14	10	6	3	2	2	25	28	
282,481	4.340	17	10	8	5	3	2	2	24	29	
282,560	4.306	19	12	8	5	3	2	2	25	28	
282,640	4.279	16	12	10	7	4	3	2	25	28	
282,719	4.281	27	17	12	7	4	2	2	24	28	
282,801	4.300	25	16	12	7	4	3	2	25	28	
282,880	4.309	21	14	10	7	4	3	2	26	28	
282,962	4.286	22	15	12	8	4	3	2	25	28	km 282 = 1000m
283,039	4.272	28	18	13	7	4	3	2	25	28	
283,119	4.320	17	10	7	5	3	2	2	25	28	
283,199	4.376	28	19	12	7	4	3	3	24	29	
283,281	4.342	33	20	14	8	5	4	3	25	28	
283,358	4.333	29	18	12	6	4	3	2	25	28	
283,440	4.275	35	25	16	9	5	4	3	26	29	
283,521	4.307	26	16	12	8	5	4	3	25	28	
283,601	4.227	37	24	16	8	4	4	3	25	28	
283,681	4.296	48	33	26	17	9	5	3	25	28	
283,760	4.327	21	14	11	8	5	3	2	25	29	
283,842	4.300	26	17	13	8	4	3	2	25	28	
283,920	4.290	49	35	29	19	14	12	10	25	27	km 283 = 1026m
284,000	4.349	38	27	17	8	4	4	3	26	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
284,080	4.353	39	25	15	8	4	3	3	24	29	
284,161	4.333	41	26	16	8	5	3	3	24	29	
284,239	4.373	33	22	16	8	4	3	2	24	29	
284,320	4.351	24	18	15	10	6	4	3	25	29	
284,401	4.338	19	13	9	6	4	3	2	25	29	
284,480	4.327	39	24	16	9	5	4	3	24	28	
284,560	4.365	37	24	18	10	4	3	3	25	29	
284,640	4.371	23	16	12	6	3	3	2	25	29	
284,721	4.352	27	18	13	8	5	3	3	25	28	
284,799	4.317	17	12	10	7	5	4	3	25	28	
284,882	4.349	11	8	7	6	4	3	2	24	29	
284,960	4.280	22	17	14	10	6	4	2	25	28	km 284 = 1000m
285,042	4.295	15	11	9	7	5	3	2	25	29	
285,123	4.311	38	24	16	8	3	3	2	25	29	
285,199	4.293	26	19	15	9	4	3	2	25	29	
285,279	4.309	17	11	8	5	3	3	2	24	28	
285,361	4.322	36	22	11	6	3	3	2	24	28	
285,442	4.304	15	10	8	5	3	3	2	25	29	
285,523	4.306	21	16	13	9	6	4	3	25	28	
285,602	4.279	23	14	9	5	3	3	2	25	28	
285,681	4.263	25	18	14	9	6	4	3	25	29	
285,762	4.259	25	18	15	10	6	4	3	25	28	
285,842	4.342	37	22	15	8	5	4	3	24	29	
285,921	4.342	24	17	12	7	4	3	3	25	29	km 285 = 1030m
285,999	4.248	19	15	12	8	5	4	3	25	28	
286,080	4.290	18	14	12	9	6	4	3	24	28	
286,159	4.311	11	8	8	7	5	4	3	25	29	
286,240	4.282	6	4	4	3	3	2	2	25	29	
286,320	4.293	5	3	3	2	2	2	2	25	28	
286,400	4.315	34	23	15	8	5	4	3	25	28	
286,482	4.322	26	15	10	6	4	3	2	25	28	
286,560	4.313	37	25	19	8	6	4	3	25	29	
286,641	4.289	25	16	13	9	5	4	3	24	29	
286,721	4.300	12	9	7	5	4	3	3	25	29	
286,803	4.307	22	13	10	7	5	4	3	25	29	
286,879	4.277	13	10	9	7	5	4	3	24	29	
286,960	4.297	16	13	11	8	6	5	4	25	29	km 286 = 1000m
287,040	4.300	12	10	9	7	6	4	3	25	29	
287,119	4.311	15	12	11	8	5	3	2	27	32	
287,201	4.314	15	11	10	7	5	3	2	28	34	
287,282	4.303	19	15	13	10	7	5	4	28	33	
287,359	4.282	43	34	28	19	11	7	5	28	32	
287,442	4.292	15	11	9	7	4	4	3	27	33	
287,519	4.319	11	7	6	5	4	3	3	28	34	
287,599	4.307	17	12	10	7	5	3	3	28	34	
287,680	4.278	14	10	8	6	4	2	2	27	34	
287,760	4.332	12	7	6	4	3	3	2	27	31	
287,840	4.338	8	5	4	3	3	2	2	28	33	
287,919	4.332	8	7	6	6	5	4	3	28	30	km 287 = 1000m
288,001	4.289	22	18	17	14	12	9	7	27	33	
288,080	4.323	12	10	10	8	7	5	4	27	31	
288,160	4.303	28	24	22	18	14	10	7	27	34	
288,241	4.258	63	42	31	20	12	7	5	28	28	
288,320	4.317	18	14	12	10	9	7	6	27	29	
288,399	4.244	56	39	30	22	16	12	9	27	29	
288,479	4.244	74	54	44	33	24	17	12	27	30	
288,560	4.248	77	56	45	33	23	17	12	27	27	
288,640	4.289	55	38	26	15	9	7	6	27	32	
288,719	4.341	48	33	26	19	13	9	6	28	31	
288,801	4.355	63	47	35	20	12	8	6	28	31	
288,879	4.307	69	44	31	18	11	8	6	28	31	
288,959	4.348	72	51	41	30	20	13	8	27	31	km 288 = 1000m
289,041	4.375	84	56	38	23	12	7	4	28	30	
289,120	4.231	104	78	59	39	25	16	11	28	28	
289,201	4.341	59	37	23	12	7	6	5	28	29	
289,282	4.319	73	45	29	17	9	6	5	27	28	
289,360	4.313	78	52	34	20	11	8	5	28	31	
289,440	4.327	57	36	26	17	11	7	6	27	31	
289,523	4.316	67	40	24	12	7	5	4	27	30	
289,601	4.280	67	38	21	12	6	4	3	27	30	início de ponte km 289,650
289,761	4.278	81	42	23	10	6	5	4	28	30	fim de ponte km 289,700
289,842	4.253	43	32	25	15	8	5	4	28	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
289,923	4.319	69	35	19	12	7	5	4	27	30	
290,001	4.315	71	45	31	17	7	6	5	27	31	km 289 = 1000m
290,081	4.313	13	11	10	8	7	6	4	27	31	
290,160	4.313	27	24	22	18	14	10	7	27	34	
290,241	4.268	63	43	32	21	13	7	5	28	28	
290,321	4.327	19	15	12	10	9	7	6	27	29	
290,399	4.254	56	39	30	24	16	12	9	27	29	
290,479	4.243	73	55	44	33	24	17	12	27	30	
290,561	4.246	76	56	45	34	24	17	12	27	27	
290,641	4.285	57	39	26	15	9	7	6	27	32	
290,719	4.321	47	33	27	19	13	9	6	28	31	
290,802	4.365	58	47	35	21	13	8	6	27	31	
290,879	4.327	67	45	31	18	11	8	6	28	31	
290,958	4.358	70	51	42	30	21	13	8	27	31	km 290 = 1000m
291,041	4.365	85	56	38	23	12	7	4	28	30	
291,120	4.232	102	79	60	39	25	16	11	27	28	
291,201	4.342	59	37	23	12	8	6	5	28	29	
291,282	4.329	74	46	29	17	9	6	5	27	28	
291,360	4.323	79	53	35	20	11	8	5	28	31	
291,440	4.337	55	36	26	18	11	7	6	27	31	
291,523	4.317	69	39	24	12	7	5	4	27	30	
291,601	4.282	59	38	22	13	7	4	3	27	30	
291,681	4.249	61	42	33	24	17	13	10	28	33	
291,760	4.267	48	31	23	15	11	8	7	28	32	
291,840	4.311	39	23	13	6	3	3	2	27	37	
291,920	4.282	42	27	18	9	5	3	3	28	36	km 291 = 1000m
292,001	4.286	36	22	14	7	4	3	3	28	37	
292,082	4.286	39	23	15	8	4	2	2	28	36	
292,160	4.287	46	25	13	8	5	3	2	29	33	
292,242	4.309	63	45	29	15	9	6	4	28	35	
292,322	4.338	43	23	13	7	5	4	3	29	36	
292,400	4.332	41	25	17	10	6	5	4	28	36	
292,482	4.318	41	28	20	13	7	5	4	28	36	
292,560	4.233	65	40	24	16	12	9	8	29	34	
292,640	4.243	81	52	36	23	14	8	5	28	33	
292,719	4.294	65	40	28	17	10	7	5	28	34	
292,799	4.240	82	62	50	37	27	20	15	28	34	
292,882	4.273	45	27	19	13	8	6	4	28	33	km 292 = 1000m
292,959	4.282	72	49	37	25	16	11	7	28	34	
293,040	4.239	80	59	48	35	25	17	11	28	34	
293,120	4.214	94	72	60	44	31	20	13	29	35	
293,201	4.289	46	29	22	15	11	9	7	28	35	
293,281	4.303	33	23	19	15	11	9	7	28	35	início de ponte km 293,300
293,360	4.317	13	10	9	8	7	6	5	28	35	fim de ponte km 293,345
293,440	4.264	49	31	22	14	9	6	4	27	34	
293,519	4.253	46	30	24	17	12	9	7	28	33	
293,600	4.300	41	26	20	15	10	8	7	28	35	
293,681	4.249	61	42	33	24	17	13	10	28	33	
293,760	4.267	48	31	23	15	11	8	7	28	32	
293,840	4.298	55	37	27	20	15	12	10	28	34	
293,921	4.248	62	40	31	22	16	12	10	28	33	km 293 = 1000m
294,001	4.278	41	24	17	11	7	6	5	29	34	
294,081	4.249	37	24	19	13	10	7	5	28	34	
294,162	4.288	34	22	17	11	8	6	4	28	35	
294,243	4.278	28	18	14	10	7	5	4	28	35	
294,318	4.243	33	22	17	12	9	7	5	29	34	
294,401	4.255	33	23	18	12	9	7	5	29	35	
294,482	4.267	39	26	20	15	10	6	5	28	34	
294,560	4.294	32	20	16	12	9	8	4	29	34	
294,639	4.269	31	20	15	11	8	6	4	29	34	
294,721	4.262	30	20	16	11	8	6	5	28	36	
294,801	4.244	39	23	15	9	6	5	4	28	34	
294,880	4.302	29	19	14	10	8	6	5	28	36	
294,960	4.284	25	15	10	6	5	4	3	28	36	km 294 = 1000m
295,040	4.263	55	36	24	14	7	4	3	29	35	
295,120	4.286	46	30	23	15	10	7	6	28	36	
295,200	4.248	36	23	18	13	9	7	5	28	35	
295,279	4.246	43	29	21	14	9	7	6	28	35	
295,359	4.244	47	29	20	13	8	6	5	29	34	
295,440	4.293	35	23	17	12	8	5	4	28	34	
295,519	4.259	46	28	19	13	9	6	5	28	34	
295,603	4.284	32	21	17	14	11	9	6	28	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
295,679	4.230	56	40	33	25	18	14	10	28	34	
295,761	4.185	66	45	35	25	19	14	11	29	34	
295,839	4.221	48	31	24	17	12	9	7	28	33	
295,919	4.255	59	43	33	24	18	14	11	28	35	km 295 = 1000m
296,001	4.235	78	52	38	25	15	9	6	28	33	início de ponte km 296,050
296,161	4.284	16	11	9	7	6	5	4	27	34	fim de ponte km 296,150
296,240	4.262	83	59	45	31	20	14	10	28	34	
296,319	4.271	67	47	36	24	16	11	8	28	33	
296,401	4.299	50	33	24	17	11	7	5	28	33	
296,480	4.210	98	75	62	48	34	24	16	28	34	
296,561	4.277	88	62	47	32	20	12	8	29	33	
296,639	4.190	133	100	81	60	42	28	18	28	32	
296,721	4.203	121	89	70	50	32	20	12	27	32	
296,801	4.224	89	63	51	37	25	17	11	28	32	
296,879	4.280	66	47	39	29	19	13	9	27	33	
296,961	4.273	68	47	36	25	16	10	6	27	33	km 296 = 1057m
297,040	4.348	78	53	41	28	17	11	7	23	26	
297,120	4.300	89	63	50	36	25	17	11	23	27	
297,201	4.286	112	82	65	47	31	19	12	23	27	
297,281	4.352	77	53	40	28	17	10	7	23	27	
297,359	4.304	105	76	58	39	23	13	7	24	27	
297,440	4.327	85	60	46	33	21	14	9	24	27	
297,521	4.289	83	59	46	32	20	12	8	23	27	
297,600	4.334	60	39	30	21	14	9	7	24	27	
297,681	4.296	92	66	52	37	24	15	10	24	26	
297,760	4.275	105	75	60	42	26	17	11	23	27	
297,842	4.355	91	61	44	30	18	11	7	23	27	
297,920	4.332	85	58	44	29	17	9	6	24	26	km 297 = 1000m
298,000	4.287	131	98	79	56	35	20	13	24	27	
298,079	4.350	56	38	29	20	14	11	9	23	27	
298,161	4.325	107	78	64	48	34	25	18	23	27	
298,240	4.313	103	73	57	39	24	14	9	24	27	
298,320	4.280	73	51	38	26	16	10	6	24	26	
298,399	4.304	70	43	31	20	12	7	5	23	27	
298,482	4.305	66	40	27	15	7	3	2	23	27	
298,560	4.315	47	36	31	24	17	12	8	23	28	
298,640	4.329	52	31	19	9	4	2	1	24	28	
298,721	4.298	69	45	32	18	9	4	2	24	27	
298,801	4.325	28	21	19	16	13	10	8	23	27	
298,880	4.345	45	30	24	18	13	10	8	24	27	
298,960	4.234	140	102	80	55	32	17	10	24	27	km 298 = 1200m
299,040	4.286	87	66	54	39	24	14	8	24	28	
299,121	4.374	39	25	20	14	10	7	5	24	27	
299,201	4.302	62	44	35	26	18	12	8	23	28	
299,040	4.311	46	28	21	15	11	8	6	23	27	
299,119	4.323	52	34	27	19	14	10	8	23	28	
299,200	4.278	80	58	48	35	23	13	7	24	27	
299,281	4.329	53	38	31	23	16	10	7	24	27	
299,361	4.340	70	47	36	25	16	10	7	23	28	
299,439	4.359	26	19	17	14	12	9	7	24	28	
299,519	4.342	63	43	36	28	19	12	8	24	28	
299,601	4.349	42	28	21	15	10	7	5	24	26	
299,681	4.345	32	23	19	15	11	8	6	24	29	
299,760	4.343	48	30	23	16	11	8	7	23	29	
299,840	4.330	47	33	25	18	13	10	7	24	28	km 299 = 831m
300,079	4.345	36	24	19	14	9	7	5	25	28	início de ponte km 300,156
300,240	4.347	25	16	13	10	7	5	4	25	28	fim de ponte km 300,210
300,321	4.331	37	21	16	11	8	7	6	24	29	
300,401	4.333	66	47	37	26	19	14	11	24	28	
300,480	4.288	61	43	34	25	18	13	10	25	27	
300,558	4.332	35	22	17	13	10	8	6	25	27	
300,642	4.325	36	23	18	14	10	7	5	24	28	
300,721	4.332	37	22	16	10	6	4	3	24	30	
300,801	4.313	28	18	14	9	6	4	4	42	29	
300,880	4.363	35	20	15	9	6	4	3	25	29	
300,960	4.329	32	20	15	10	6	4	3	24	29	
301,041	4.366	38	25	18	12	8	5	4	25	30	
301,119	4.331	30	19	15	11	7	5	4	25	31	
301,201	4.336	40	22	14	9	5	4	3	25	31	
301,281	4.293	38	22	15	9	6	4	3	25	30	
301,360	4.335	39	25	19	14	10	8	6	24	30	
301,440	4.343	50	34	26	18	12	7	6	25	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
301,520	4,298	51	33	24	16	10	7	5	25	30	
301,600	4,276	88	59	43	27	16	11	8	25	30	
301,681	4,280	81	54	39	26	16	11	8	25	30	
301,761	4,241	114	83	64	45	28	17	10	25	30	
301,841	4,257	101	69	52	34	20	13	8	25	31	
301,920	4,318	46	26	18	12	8	6	4	25	31	
301,040	4,253	72	45	32	21	13	9	6	25	30	km 300 = 1947m
301,120	4,379	23	12	10	8	7	5	4	25	31	
301,199	4,325	31	20	16	12	9	7	5	25	31	
301,281	4,307	50	34	26	19	12	8	5	26	31	
301,360	4,336	47	34	26	18	11	7	4	26	31	
301,440	4,279	54	38	30	23	17	12	8	25	31	
301,519	4,277	41	26	19	13	9	7	5	25	32	
301,600	4,248	49	32	25	16	11	8	6	25	30	
301,680	4,297	64	42	29	15	7	4	4	26	29	
301,761	4,282	55	35	23	13	6	4	3	26	30	
301,841	4,226	71	47	33	20	10	5	4	26	29	
301,921	4,298	57	37	28	18	10	6	5	26	29	km 301 = 980m
302,080	4,267	70	47	35	23	14	9	7	25	30	
302,160	4,291	78	52	38	24	14	8	6	25	30	
302,240	4,261	75	50	36	22	12	7	6	25	29	
302,321	4,291	64	42	32	22	14	9	7	25	30	
302,400	4,286	62	40	30	20	12	8	6	25	30	
302,482	4,293	50	32	25	17	11	8	6	25	29	
302,562	4,267	60	40	31	21	12	8	6	25	30	
302,639	4,280	48	30	22	14	8	6	4	25	29	
302,719	4,282	81	53	38	24	13	8	5	24	30	
302,797	4,325	42	26	20	14	8	6	5	25	30	
302,880	4,313	43	26	18	12	8	6	4	25	29	
302,959	4,311	44	28	21	14	9	7	5	25	29	km 302 = 1050m
303,040	4,302	53	33	23	14	8	6	5	25	29	
303,040	4,307	36	21	15	11	7	6	4	25	29	
303,119	4,257	41	24	17	11	7	5	4	25	29	
303,200	4,302	28	15	11	8	5	4	3	25	30	
303,279	4,325	24	15	11	8	5	4	3	25	30	
303,358	4,255	51	30	20	12	6	5	4	24	29	
303,439	4,306	82	46	29	15	7	4	3	25	29	
303,521	4,296	50	29	19	11	6	5	4	25	29	
303,601	4,277	57	31	19	10	6	4	3	25	29	
303,680	4,275	38	22	15	9	6	4	3	24	29	
303,762	4,343	21	12	9	6	5	4	4	25	30	
303,842	4,280	39	20	13	8	6	4	3	24	29	
303,919	4,288	44	23	14	9	6	5	4	24	29	km 303 = 970m
304,080	4,293	38	21	13	8	5	4	3	25	29	
304,158	4,265	39	22	14	8	5	3	3	24	28	
304,241	4,306	33	18	12	7	5	4	3	24	29	
304,321	4,272	42	25	15	9	5	4	3	24	29	
304,401	4,306	35	20	15	9	5	3	3	25	29	
304,479	4,251	41	23	15	9	6	3	2	25	29	
304,560	4,284	37	21	13	8	6	4	4	24	28	
304,640	4,255	35	20	14	8	5	4	3	24	29	
304,718	4,295	32	19	12	8	6	5	3	25	28	
304,800	4,266	39	22	15	9	6	5	3	25	29	
304,881	4,269	40	22	14	8	5	4	3	24	29	
304,963	4,255	42	24	15	9	6	4	3	24	29	km 304 = 1006m
305,040	4,281	47	26	16	10	6	5	3	24	29	
305,121	4,291	25	13	9	6	4	3	3	24	29	
305,200	4,286	24	15	11	7	4	3	2	24	28	
305,280	4,313	29	15	11	7	5	4	3	25	29	
305,360	4,346	25	15	11	6	4	3	3	24	29	
305,439	4,298	20	12	9	7	5	4	3	24	29	
305,520	4,309	46	26	17	9	6	5	3	24	30	
305,601	4,309	38	21	15	9	6	4	3	25	29	
305,680	4,307	26	15	11	7	6	5	4	24	29	
305,760	4,295	33	18	12	7	5	3	3	25	29	
305,842	4,300	26	15	10	6	3	3	2	25	29	
305,920	4,300	26	16	12	8	6	2	2	25	29	km 305 = 1000m
306,001	4,391	33	20	13	8	5	4	2	24	29	
306,080	4,352	27	17	12	8	4	3	3	24	29	
306,160	4,333	26	15	11	7	5	3	3	25	30	
306,240	4,361	33	20	13	8	6	4	3	25	30	
306,321	4,323	23	15	11	7	4	2	1	25	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
306,400	4.335	31	19	13	9	6	4	3	24	29	
306,481	4.288	32	17	13	9	7	5	4	24	29	
306,561	4.280	30	17	11	7	5	4	3	25	30	
306,639	4.346	35	20	13	7	3	2	2	25	30	
306,723	4.347	50	31	20	11	6	3	3	24	30	
306,803	4.319	21	13	10	7	6	5	3	25	29	
306,881	4.327	39	23	17	11	7	5	4	24	30	
306,961	4.366	49	33	24	15	8	4	3	25	30	km 306 = 987m
307,040	4.374	25	18	15	11	8	4	3	25	29	
307,121	4.350	23	15	12	9	8	6	4	24	30	
307,199	4.286	23	15	12	8	6	4	3	24	30	
307,281	4.336	37	19	13	8	6	5	4	25	29	
307,360	4.268	49	30	19	11	7	5	5	25	28	
307,441	4.264	41	26	19	13	8	6	5	25	29	
307,521	4.274	44	31	24	16	10	7	5	24	29	
307,599	4.295	40	26	19	13	8	6	4	25	28	
307,681	4.288	40	25	20	14	9	6	4	25	29	
307,763	4.329	29	19	15	12	9	7	5	25	30	
307,841	4.331	29	21	16	12	9	7	5	24	29	km 307 = 858m
308,079	4.317	42	26	18	11	7	5	4	24	30	
308,159	4.344	24	15	12	8	5	4	4	25	30	
308,238	4.363	25	15	11	8	6	5	3	24	30	
308,320	4.298	31	18	12	7	5	4	3	25	31	
308,397	4.309	34	22	15	8	5	3	2	25	30	
308,480	4.315	35	21	14	8	5	4	3	25	30	
308,561	4.329	30	18	13	9	5	4	3	25	30	
308,638	4.313	33	19	13	8	5	4	3	24	30	
308,721	4.276	44	26	17	10	5	3	3	24	30	
308,801	4.296	39	24	16	10	5	4	3	25	31	
308,880	4.315	32	18	12	8	5	4	3	25	31	
308,962	4.295	31	17	12	8	5	4	3	25	31	
309,039	4.318	21	13	9	6	4	3	3	25	31	
309,119	4.313	26	14	9	6	4	3	3	24	31	km 308 = 1143m
309,040	4.282	35	19	12	7	5	4	3	25	31	
309,120	4.329	52	31	20	11	5	3	2	25	31	
309,201	4.329	39	22	14	8	4	3	2	26	31	
309,279	4.363	24	12	9	5	4	3	3	26	31	
309,360	4.300	26	15	10	6	4	3	3	25	31	
309,439	4.358	32	18	13	8	6	4	3	26	31	
309,519	4.303	41	23	15	9	5	4	3	26	30	
309,599	4.340	45	26	17	10	6	4	3	26	31	
309,680	4.325	31	18	13	8	5	4	3	26	31	
309,760	4.313	22	12	9	6	5	4	3	26	31	
309,842	4.291	38	20	13	7	4	3	3	26	31	
309,921	4.315	33	16	10	6	4	3	2	26	31	km 309 = 1000m
310,000	4.287	35	16	10	5	4	3	3	26	30	
310,082	4.327	24	13	9	6	3	3	3	26	31	
310,162	4.329	18	10	7	5	4	4	3	25	31	
310,240	4.351	21	10	4	3	2	2	2	25	32	
310,319	4.336	24	12	9	6	4	4	3	26	31	
310,401	4.311	18	9	6	5	4	4	3	26	31	
310,482	4.300	36	18	11	6	4	3	2	26	32	
310,561	4.356	27	16	10	6	3	2	2	26	31	
310,638	4.323	38	22	15	9	5	4	3	26	31	
310,719	4.345	35	22	15	9	5	3	3	25	30	
310,801	4.347	37	22	15	9	5	4	3	26	31	
310,879	4.372	34	20	15	9	6	4	3	26	31	
310,960	4.308	31	18	12	8	5	4	3	26	30	km 310 = 1022m
311,040	4.338	24	14	10	8	5	3	3	26	31	
311,120	4.324	31	18	13	8	6	5	4	25	31	
311,201	4.304	30	16	11	7	5	4	4	26	30	
311,279	4.298	25	15	11	7	5	4	3	26	31	
311,360	4.303	30	18	13	9	7	5	4	26	31	
311,442	4.274	27	17	14	10	7	5	4	25	32	
311,521	4.309	32	23	18	13	9	6	5	26	31	
311,601	4.304	46	29	22	15	10	7	6	26	31	
311,682	4.349	37	25	20	14	10	7	5	26	31	
311,760	4.300	51	33	25	17	11	8	6	26	30	
311,840	4.306	39	24	19	13	10	7	6	26	31	
311,923	4.300	40	27	20	14	10	7	5	26	32	km 311 = 976m
312,080	4.349	31	21	16	11	8	6	4	26	32	
312,161	4.284	28	18	15	11	9	7	6	26	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
312,240	4.354	35	22	17	12	8	6	5	26	32	
312,321	4.346	29	18	14	11	8	6	5	26	32	
312,400	4.329	29	19	13	9	7	5	4	27	32	
312,480	4.318	32	18	13	8	5	4	3	27	33	
312,562	4.347	34	21	16	12	9	7	5	26	32	
312,640	4.277	37	23	18	14	10	8	7	26	33	
312,722	4.272	79	50	37	24	15	10	8	27	33	
312,801	4.234	87	62	48	34	22	15	11	27	33	
312,879	4.156	125	87	69	49	33	22	15	27	33	
312,960	4.210	85	64	55	43	33	23	15	27	33	km 312 = 1000m
313,043	4.191	158	106	79	51	31	18	11	26	34	
313,118	4.277	34	18	13	9	7	6	5	27	34	
313,199	4.295	35	20	14	10	7	4	3	27	34	
313,279	4.315	57	38	29	20	12	7	5	27	33	
313,360	4.288	53	35	27	18	11	8	6	26	34	
313,440	4.139	217	174	147	112	77	48	28	27	33	
313,521	4.199	163	123	100	75	52	35	24	27	34	
313,601	4.334	48	29	20	13	8	6	5	27	34	
313,681	4.243	111	77	59	42	28	19	12	27	35	
313,762	4.198	141	110	92	71	51	34	21	27	34	
313,840	4.220	147	115	95	74	53	38	25	26	34	
313,920	4.329	40	27	22	17	13	10	9	27	34	km 313 = 974m
314,001	4.338	34	21	17	12	9	7	6	30	39	
314,082	4.352	43	28	22	15	11	8	6	30	44	
314,160	4.338	41	26	21	15	10	8	6	30	43	
314,239	4.293	53	36	28	20	14	10	7	30	42	
314,321	4.342	44	27	20	13	9	6	4	30	42	
314,401	4.321	32	22	17	12	8	5	3	31	42	
314,482	4.361	39	24	18	12	9	7	5	31	42	
314,562	4.342	47	30	22	14	9	6	5	31	42	
314,642	4.302	35	21	15	11	8	6	4	31	43	
314,719	4.342	34	18	12	8	6	5	4	31	43	
314,798	4.311	35	20	13	8	5	4	3	31	42	
314,878	4.306	32	17	12	8	6	4	3	31	42	
314,960	4.307	22	13	9	6	4	4	3	31	41	
315,041	4.307	19	11	8	5	4	3	3	31	42	km314 = 1051m
315,040	4.239	30	16	11	7	4	4	3	31	44	
315,118	4.275	29	15	10	7	5	4	3	32	43	
315,199	4.352	38	22	15	9	5	4	3	31	44	
315,281	4.307	48	28	18	10	6	5	4	32	43	
315,360	4.309	21	10	8	6	4	3	3	32	43	
315,441	4.248	72	40	26	14	7	5	4	32	43	
315,519	4.296	35	19	13	7	4	3	2	32	43	
315,600	4.259	72	43	29	16	8	6	5	32	43	
315,679	4.211	128	90	69	47	30	20	14	31	43	
315,761	4.266	85	59	45	31	20	13	8	31	43	
315,841	4.269	82	52	38	24	14	9	5	32	44	
315,919	4.251	82	53	39	26	16	10	6	32	45	km315 = 982m
316,000	4.304	23	11	8	6	6	5	5	32	45	
316,081	4.243	70	40	27	15	7	3	2	31	44	
316,160	4.232	78	54	41	27	17	10	5	31	44	
316,240	4.296	61	41	31	24	17	11	7	32	48	
316,319	4.210	100	68	49	31	18	10	6	32	45	
316,403	4.278	72	51	40	29	20	14	9	32	48	
316,481	4.286	51	32	24	16	9	5	3	32	45	
316,562	4.296	44	28	20	12	7	5	3	32	47	
316,638	4.245	87	57	42	28	17	9	5	31	45	
316,718	4.296	40	28	20	13	8	5	3	31	46	
316,802	4.307	54	40	31	20	12	7	4	31	48	
316,879	4.272	34	26	21	15	10	7	5	32	48	
316,960	4.254	63	36	26	19	14	10	6	32	48	km316 = 995m
317,040	4.300	34	20	14	10	7	6	5	32	48	
317,116	4.250	31	23	20	17	14	12	9	31	49	
317,201	4.243	76	53	40	27	17	10	6	31	47	
317,279	4.239	78	56	43	29	17	10	6	32	45	
317,359	4.264	35	22	15	9	5	3	1	32	45	
317,440	4.255	63	48	39	27	17	11	7	32	46	
317,519	4.225	59	50	41	30	22	16	12	32	46	
317,601	4.253	83	58	45	31	19	12	8	32	44	
317,681	4.266	68	53	43	32	23	16	12	32	45	
317,759	4.286	57	39	30	21	15	10	8	32	45	
317,840	4.250	73	54	44	33	23	16	10	32	45	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
317,920	4.272	32	24	20	14	10	7	6	32	45	km317 = 1023m
318,000	4.262	48	31	24	18	13	10	7	32	46	
318,081	4.271	32	25	19	12	7	4	3	32	45	
318,162	4.313	28	22	18	13	10	7	4	32	46	
318,240	4.291	42	29	23	17	10	7	4	32	46	
318,320	4.347	26	20	15	9	6	4	3	32	47	
318,401	4.322	27	20	16	11	7	5	4	32	45	
318,479	4.363	17	15	12	9	7	5	4	32	45	
318,559	4.286	41	29	23	15	9	6	5	32	45	
318,643	4.302	50	34	25	15	8	5	4	32	46	
318,721	4.275	57	36	26	16	10	7	6	33	46	
318,800	4.286	70	46	34	22	13	9	7	32	47	
318,879	4.269	61	40	31	20	12	7	5	32	47	
318,960	4.275	52	33	25	17	12	9	7	32	47	km318 = 976m
319,040	4.245	105	70	57	41	27	17	12	28	34	
319,120	4.288	63	44	37	28	20	14	10	28	34	
319,201	4.255	91	66	54	40	28	19	13	28	35	
319,280	4.349	71	46	37	28	20	15	12	29	35	
319,360	4.300	62	38	30	21	14	9	7	29	34	
319,441	4.290	41	27	22	15	11	8	4	29	35	
319,519	4.351	38	24	20	14	10	7	5	28	34	
319,601	4.290	19	10	8	7	6	5	4	28	35	
319,680	4.323	20	11	10	8	8	7	6	27	36	
319,761	4.284	45	27	22	18	15	12	9	29	36	
319,840	4.291	32	21	17	13	10	8	6	28	34	km 319 = 840m
320,082	4.274	23	13	11	10	9	8	6	27	33	início de ponte km 320,008
320,160	4.156	164	122	100	75	50	32	20	28	33	fim de ponte km 320,072
320,241	4.325	74	49	37	26	16	10	7	27	33	
320,320	4.315	64	42	33	24	17	12	9	27	33	
320,402	4.241	113	77	60	44	29	19	12	28	33	
320,480	4.266	68	44	33	24	16	12	9	27	32	
320,562	4.255	82	55	42	30	20	13	9	27	33	
320,639	4.282	52	31	23	16	12	9	7	27	32	
320,719	4.294	55	36	27	19	13	9	6	27	33	
320,803	4.176	123	85	68	49	31	19	12	27	32	
320,881	4.286	76	53	43	33	24	17	12	27	32	
320,959	4.236	70	45	35	25	17	12	8	26	33	
321,040	4.279	52	29	19	11	6	4	2	26	34	
321,120	4.220	81	56	44	32	22	15	10	27	35	km 320 = 1170m
321,040	4.214	99	66	52	38	25	16	10	27	35	
321,119	4.203	120	85	70	51	34	21	13	26	34	
321,201	4.263	85	57	43	30	19	12	8	26	34	
321,279	4.272	57	29	20	13	9	6	5	26	35	
321,360	4.262	54	28	19	13	10	8	6	27	35	
321,441	4.311	67	44	35	25	17	12	8	27	33	
321,520	4.203	131	94	76	55	37	24	15	26	33	
321,600	4.327	41	22	16	11	9	7	5	27	34	
321,681	4.395	60	35	26	17	12	8	6	26	33	
321,762	4.329	85	60	49	37	27	20	14	26	33	
321,842	4.347	71	46	36	25	17	12	8	27	31	
321,921	4.293	72	51	42	32	23	17	12	26	30	km 321 = 1000m
322,001	4.275	42	27	22	17	14	12	9	26	30	
322,079	4.291	51	36	26	23	15	13	9	26	34	
322,160	4.347	28	19	12	8	5	4	3	26	34	
322,240	4.292	74	46	37	26	18	15	10	26	33	
322,321	4.314	50	26	22	16	10	7	5	25	32	
322,403	4.312	46	24	20	15	8	6	5	25	30	
322,481	4.334	61	35	26	16	9	7	5	25	30	
322,558	4.258	33	24	15	9	6	5	4	26	30	
322,640	4.349	74	43	38	27	20	13	12	29	35	
322,721	4.310	66	34	28	23	14	9	7	29	34	
322,802	4.280	48	24	23	17	11	8	4	29	35	
322,880	4.354	35	25	20	13	10	7	5	28	34	
322,960	4.272	56	34	24	15	12	9	7	27	32	km 322 = 1000m
323,040	4.372	64	40	31	21	13	8	5	21	25	
323,119	4.426	52	31	23	17	12	9	7	22	25	
323,201	4.331	103	71	57	41	30	21	14	21	24	
323,280	4.314	154	111	91	69	48	31	19	22	24	
323,360	4.384	56	36	27	18	11	7	5	21	26	
323,440	4.381	43	26	19	13	8	6	4	22	25	
323,522	4.260	150	107	86	63	43	29	18	22	25	
323,599	4.319	91	62	47	32	19	12	7	22	26	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
323,682	4.307	77	52	40	28	19	13	9	23	24	
323,762	4.340	76	53	40	28	20	14	9	22	25	
323,840	4.348	64	41	30	19	11	7	5	23	25	
323,920	4.341	58	35	26	18	12	8	6	23	26	km 323 = 1000m
323,999	4.335	62	39	28	18	11	7	5	23	24	
324,080	4.373	44	29	22	15	10	7	6	23	25	
324,160	4.319	109	76	60	45	31	21	14	22	25	
324,240	4.257	108	80	65	48	32	19	11	23	24	
324,319	4.273	90	65	52	39	28	19	13	23	24	
324,399	4.343	44	29	22	15	10	7	5	23	25	
324,481	4.301	63	42	33	24	17	12	9	23	25	
324,560	4.377	32	20	15	10	7	5	4	23	25	
324,642	4.335	62	42	29	19	12	8	6	23	25	
324,720	4.310	42	30	24	18	13	10	7	22	26	
324,801	4.323	44	25	18	12	9	7	5	23	25	
324,881	4.340	58	39	30	21	14	9	6	23	25	
324,962	4.329	52	36	30	23	17	12	8	23	25	km 324 = 1000m
325,040	4.330	59	39	31	23	16	11	7	22	25	
325,119	4.246	114	76	59	41	27	18	11	22	25	
325,201	4.373	39	26	20	13	8	6	4	23	26	
325,281	4.361	16	8	7	6	5	4	4	22	25	
325,360	4.325	69	48	39	29	20	12	7	23	25	
325,440	4.292	55	36	27	19	13	10	7	23	25	
325,520	4.335	67	44	32	21	14	10	7	22	26	
325,601	4.318	68	50	40	29	20	14	10	23	25	
325,680	4.319	36	23	17	12	8	6	4	22	26	
325,761	4.289	69	46	35	25	17	10	6	23	25	
325,842	4.280	75	54	40	27	17	11	7	23	25	
325,920	4.321	58	39	31	24	16	12	8	23	25	km 325 = 1000m
326,001	4.335	41	31	26	20	15	11	8	23	25	
326,081	4.359	26	14	11	8	6	5	4	22	24	
326,162	4.314	38	24	16	10	7	6	4	23	25	
326,241	4.282	107	77	62	45	32	22	15	22	25	
326,321	4.280	93	62	47	31	19	12	9	22	25	
326,399	4.316	103	71	56	39	25	15	7	23	26	
326,481	4.251	93	63	49	34	24	17	13	23	26	
326,560	4.330	62	41	31	21	14	11	8	22	25	
326,640	4.340	50	34	27	20	14	10	7	23	25	
326,723	4.272	102	73	58	42	28	20	14	22	26	
326,801	4.298	84	57	44	31	20	13	9	23	26	
326,881	4.310	74	46	34	22	13	8	6	23	26	
326,960	4.289	64	43	32	23	15	11	8	23	26	km 326 = 965m
327,040	4.338	53	32	23	14	9	6	4	23	26	
327,121	4.272	69	40	28	18	11	7	5	23	26	
327,201	4.332	41	24	18	13	9	7	5	24	27	
327,279	4.278	89	62	50	36	25	17	11	23	26	
327,359	4.325	68	43	32	23	16	11	8	24	26	
327,442	4.352	42	24	19	14	10	8	6	24	26	
327,521	4.288	48	30	23	16	11	9	6	23	25	
327,602	4.355	44	28	22	16	11	8	5	24	26	
327,681	4.300	34	23	20	15	11	8	7	23	27	
327,760	4.313	37	23	18	13	10	7	6	24	27	
327,842	4.267	65	40	29	18	11	8	6	24	26	
327,922	4.303	71	42	30	19	12	8	6	24	26	km 327 = 1040m
328,002	4.323	51	29	20	13	9	7	5	24	26	
328,079	4.298	57	33	22	14	8	6	4	23	27	
328,160	4.244	66	38	26	15	8	5	4	23	26	
328,240	4.288	66	41	29	19	12	8	6	24	27	
328,321	4.263	103	77	61	44	31	22	15	24	26	
328,401	4.228	107	80	64	48	33	22	15	25	27	
328,480	4.283	59	39	29	19	13	10	7	24	28	
328,560	4.305	46	27	19	12	7	5	4	24	28	
328,644	4.328	51	32	22	14	10	7	6	24	27	
328,719	4.310	52	33	24	17	12	9	7	25	28	
328,800	4.305	51	35	26	17	11	7	5	24	28	
328,879	4.321	37	25	18	13	9	6	5	24	27	
328,960	4.307	81	56	42	30	21	16	12	23	28	km 328 = 1000m
329,040	4.396	36	27	21	15	11	8	6	24	29	
329,119	4.342	53	36	27	18	11	6	4	24	27	
329,202	4.342	77	56	45	32	22	15	10	25	29	
329,281	4.296	80	55	41	27	16	10	7	24	28	
329,359	4.313	47	31	23	15	9	5	3	24	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
329,439	4.301	61	42	32	21	13	8	6	25	28	
329,520	4.288	93	67	51	35	22	14	10	24	26	
329,601	4.280	106	75	58	39	23	13	7	24	28	
329,681	4.326	38	25	21	18	15	13	10	23	30	
329,760	4.282	93	65	49	33	21	13	8	24	29	
329,838	4.305	87	62	47	33	22	14	10	24	27	
329,921	4.315	62	43	33	23	15	10	6	25	29	km 329 = 1000m
330,001	4.301	66	45	35	25	17	11	8	24	29	
330,080	4.297	75	52	41	29	20	14	10	24	29	
330,160	4.262	77	57	47	36	27	20	14	24	29	
330,242	4.307	53	36	27	19	12	8	6	25	29	
330,320	4.280	49	29	20	12	6	3	2	25	29	
330,400	4.307	44	27	20	13	8	6	4	24	29	
330,482	4.335	45	31	23	16	12	9	6	24	30	
330,560	4.333	17	12	11	9	8	6	5	25	30	
330,641	4.341	41	28	20	13	8	5	4	24	30	
330,719	4.313	47	31	24	16	10	6	4	24	30	
330,803	4.290	64	44	34	22	13	7	4	24	30	
330,882	4.296	57	38	29	20	13	8	6	25	30	
330,959	4.309	37	22	17	12	8	6	4	25	30	km 330 = 1000m
331,040	4.297	21	9	7	6	5	5	4	25	31	
331,119	4.299	57	41	33	24	17	11	8	24	30	
331,200	4.282	59	39	28	18	10	6	4	25	31	
331,280	4.298	48	35	27	20	13	9	6	25	31	
331,362	4.296	65	45	35	24	15	10	7	26	32	
331,440	4.301	54	38	31	23	16	11	7	25	32	
331,521	4.292	63	42	33	24	16	11	7	26	32	
331,601	4.310	54	36	27	19	13	9	7	26	32	
331,681	4.249	85	62	50	36	24	16	10	25	32	
331,762	4.301	62	44	35	26	19	13	9	26	32	
331,839	4.274	77	57	46	33	22	15	10	26	33	
331,920	4.326	65	47	38	25	15	9	6	27	33	km 331 = 1000m
332,002	4.350	70	51	39	26	16	10	7	26	33	
332,081	4.330	41	29	23	17	13	10	8	26	33	
332,160	4.309	34	21	16	12	9	7	4	26	34	
332,239	4.319	41	28	21	14	10	7	5	26	34	
332,320	4.287	56	42	35	26	19	13	9	25	33	
332,399	4.290	86	63	49	35	23	14	8	27	33	
332,480	4.317	48	31	24	17	12	9	7	27	34	
332,560	4.363	51	35	27	18	12	8	6	27	35	
332,638	4.356	36	23	16	11	8	6	5	27	33	km 332 = 706m
333,000	4.334	48	31	25	19	14	11	8	27	33	início de ponte km 333,010
333,081	4.325	49	34	28	20	14	9	6	27	34	fim de ponte km 333,067
333,163	4.373	39	25	18	11	7	5	3	27	35	
333,240	4.323	39	26	19	13	9	7	5	27	33	
333,323	4.287	86	60	43	27	15	9	7	28	35	
333,399	4.265	82	54	37	21	10	8	6	27	34	
333,481	4.309	80	54	35	20	10	6	5	28	36	
333,559	4.292	70	47	31	15	6	5	5	28	34	
333,641	4.292	44	28	19	11	6	4	3	27	35	
333,719	4.284	58	35	23	12	7	5	4	28	35	
333,801	4.316	47	30	22	14	8	5	4	28	35	
333,882	4.284	57	37	27	18	12	9	7	27	35	
333,961	4.309	73	45	30	17	10	7	5	28	36	
334,040	4.330	32	21	15	10	7	6	5	28	35	
334,121	4.300	37	23	17	11	8	6	4	28	35	
334,199	4.293	51	32	24	15	10	7	5	27	36	
334,282	4.287	65	44	34	23	15	10	7	28	36	km 333 = 1310m
334,000	4.386	64	38	24	14	8	6	5	28	36	
334,079	4.287	67	47	35	22	12	7	5	28	35	
334,162	4.265	79	55	40	24	13	9	7	29	35	
334,241	4.257	78	55	40	25	15	9	7	29	35	
334,322	4.243	77	54	39	24	14	9	6	28	34	
334,401	4.255	75	51	39	25	15	9	6	29	35	
334,481	4.208	85	60	43	28	16	10	7	29	34	
334,563	4.302	84	57	40	26	15	10	7	29	34	
334,642	4.264	83	56	41	26	15	8	7	29	36	
334,722	4.258	89	58	44	27	16	10	8	29	36	
334,801	4.273	76	53	37	21	11	5	4	28	36	
334,884	4.262	79	56	41	26	16	10	8	29	34	
334,961	4.277	85	59	43	27	15	9	7	29	35	km 334 = 992m
335,042	4.289	70	47	36	24	15	9	6	29	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
335,121	4.273	68	43	31	19	11	6	4	28	31	
335,202	4.286	64	43	32	22	14	9	7	29	37	
335,283	4.300	50	34	24	15	9	6	4	29	38	
335,360	4.302	51	32	22	13	7	4	3	29	37	
335,442	4.307	45	29	22	14	8	5	4	29	37	
335,523	4.305	50	33	22	13	8	5	4	29	38	
335,600	4.263	62	43	30	17	9	5	4	29	39	
335,679	4.335	64	45	34	22	12	7	4	29	36	
335,759	4.302	47	30	22	13	7	4	2	29	37	
335,838	4.289	77	50	34	20	10	6	4	29	34	
335,923	4.296	59	39	28	16	8	4	3	29	35	km 335 = 1000m
336,000	4.296	56	38	27	17	9	6	3	29	36	
336,079	4.264	70	41	28	17	10	7	5	30	38	
336,158	4.327	65	43	30	19	11	7	6	30	39	
336,239	4.318	55	35	24	16	10	7	5	30	38	
336,320	4.287	61	40	29	18	10	6	5	29	38	
336,399	4.305	56	35	25	15	8	5	4	30	39	
336,481	4.259	65	46	34	22	12	8	6	29	39	
336,562	4.282	77	52	36	20	10	6	5	29	40	
336,640	4.296	67	46	34	21	11	7	5	30	40	
336,719	4.253	63	44	33	21	14	8	6	30	39	
336,801	4.275	65	44	34	21	12	6	5	30	39	
336,880	4.250	68	49	36	22	13	8	5	30	34	km 336 = 1000m
336,960	4.272	77	52	40	27	15	8	6	29	39	
337,040	4.228	69	49	39	26	16	10	7	30	37	
337,118	4.280	73	52	40	26	16	9	7	30	39	
337,201	4.272	70	48	38	25	15	9	7	29	38	
337,281	4.232	77	54	39	25	15	9	7	29	38	
337,361	4.247	81	55	40	25	14	8	6	29	39	
337,443	4.246	79	56	43	30	19	12	8	29	38	
337,518	4.251	82	59	46	30	18	11	8	30	38	
337,601	4.300	73	52	39	24	14	9	7	29	38	
337,681	4.315	58	42	34	24	16	11	8	30	37	
337,760	4.287	49	36	29	20	14	9	6	29	38	
337,839	4.251	67	47	36	24	14	8	5	30	40	km 337 = 1000m
337,921	4.262	58	40	32	22	14	9	7	29	38	
338,000	4.301	44	29	23	16	12	8	5	30	39	
338,080	4.287	64	45	34	28	15	9	6	30	39	
338,160	4.274	67	46	31	19	13	7	5	30	39	
338,241	4.283	65	43	34	22	14	9	7	29	38	
338,321	4.304	47	34	24	20	9	7	4	30	39	
338,400	4.303	54	32	24	13	7	4	3	30	39	
338,480	4.306	43	28	22	14	9	7	3	29	39	
338,562	4.308	47	33	25	15	8	5	4	30	39	
338,641	4.264	64	43	30	17	10	7	4	30	38	
338,723	4.337	66	46	38	24	12	7	4	30	39	
338,800	4.303	44	30	22	13	9	6	4	29	39	
338,880	4.286	72	50	39	19	10	6	4	29	39	
338,962	4.293	57	38	28	16	9	4	3	30	38	
339,041	4.293	56	38	30	20	9	6	3	30	39	
339,122	4.322	45	37	28	20	14	9	6	30	39	
339,200	4.374	37	25	19	13	8	6	4	29	39	
339,280	4.322	37	29	19	13	9	7	5	30	39	km 338 = 1304m
339,041	4.282	85	60	43	24	15	9	7	29	38	
339,120	4.261	88	59	37	21	10	8	5	30	39	
339,201	4.329	85	54	39	29	10	7	5	30	39	
339,280	4.212	77	47	31	15	6	5	5	30	39	
339,362	4.232	45	28	18	13	7	7	4	30	39	
339,442	4.244	56	36	23	12	7	5	4	29	39	
339,521	4.326	45	30	24	13	9	7	4	30	39	
339,600	4.244	57	39	27	18	12	9	7	29	39	
339,680	4.339	74	45	29	20	10	7	5	30	38	km 339 = 697m
340,000	4.405	55	37	29	20	14	10	7	22	28	
340,080	4.401	58	39	32	24	18	13	10	23	28	
340,161	4.407	98	68	56	42	28	18	11	23	28	
340,240	4.444	34	23	18	13	10	7	5	23	28	
340,321	4.405	65	45	33	22	13	8	5	23	27	
340,403	4.378	56	36	26	16	9	5	3	23	26	início de ponte km 340,435 fim de ponte km 340,517
340,560	4.405	49	29	21	14	9	6	5	23	28	
340,640	4.398	43	25	17	11	6	4	3	23	26	
340,720	4.421	46	27	19	12	7	5	4	23	27	
340,799	4.405	66	41	28	15	8	5	4	23	26	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
340,882	4.454	54	30	21	13	8	6	5	24	27	
340,959	4.380	60	38	27	17	11	8	6	24	27	km 340 = 1002m
341,039	4.383	80	51	34	20	11	7	5	24	27	
341,119	4.346	78	50	33	18	9	7	6	24	25	
341,199	4.372	85	55	36	19	10	8	6	24	27	
341,283	4.343	68	46	32	18	9	7	6	23	25	
341,361	4.368	54	36	26	17	10	7	6	24	27	
341,440	4.398	51	35	25	16	10	7	5	23	27	
341,520	4.369	59	42	29	16	8	6	4	23	28	
341,599	4.391	72	48	33	19	10	7	6	23	28	
341,681	4.353	56	37	24	12	5	5	5	24	28	
341,759	4.408	54	35	23	13	8	7	5	24	28	
341,840	4.356	47	31	22	13	8	6	4	24	28	
341,920	4.380	53	35	21	10	5	5	4	24	28	km 341 = 1006m
342,001	4.365	57	38	26	15	7	5	5	23	28	
342,081	4.369	37	25	18	13	11	10	6	23	28	
342,159	4.346	49	33	26	17	10	7	5	24	28	
342,240	4.392	41	27	20	12	7	5	5	24	29	
342,320	4.389	42	28	20	13	8	6	5	24	29	
342,399	4.378	26	16	11	8	6	4	3	25	27	
342,481	4.405	33	21	15	9	6	4	4	25	28	
342,560	4.374	44	28	19	12	7	5	4	24	29	
342,640	4.378	41	27	20	13	9	6	4	24	29	
342,720	4.365	43	28	20	13	8	5	4	24	29	
342,799	4.337	48	32	23	15	9	7	5	24	29	
342,880	4.348	52	35	25	14	8	5	4	25	29	
342,960	4.342	59	36	24	12	5	4	3	24	29	
343,040	4.356	45	27	19	11	6	4	3	25	30	km 342 = 1105m
343,040	4.360	60	38	26	15	8	4	3	25	29	
343,119	4.326	61	39	28	16	8	4	3	24	30	
343,202	4.344	52	33	21	11	6	4	3	24	29	
343,280	4.337	58	37	24	13	6	4	4	25	29	
343,362	4.315	65	42	30	19	12	7	5	25	29	
343,440	4.317	67	42	29	17	10	6	4	25	30	
343,520	4.344	60	38	27	17	10	6	4	24	31	
343,599	4.337	48	27	18	11	7	4	3	25	31	
343,681	4.321	51	31	21	13	7	4	3	25	30	
343,760	4.360	60	36	25	15	9	5	3	26	31	
343,841	4.317	68	42	27	13	4	2	1	25	30	
343,919	4.372	52	33	22	13	6	3	1	25	31	km 343 = 1000m
344,001	4.317	60	37	26	16	9	5	2	25	32	
344,081	4.326	60	36	24	14	7	4	2	26	32	
344,160	4.343	70	42	29	17	9	5	3	26	31	
344,240	4.306	59	37	25	15	9	5	3	26	31	
344,319	4.290	53	34	24	15	9	6	4	26	31	
344,401	4.307	52	32	22	14	9	6	4	26	31	
344,480	4.348	64	43	31	20	11	6	4	27	31	
344,562	4.315	53	33	23	15	10	6	4	26	31	
344,639	4.292	60	38	26	15	8	5	3	27	31	
344,719	4.346	56	35	24	16	10	7	5	27	31	
344,799	4.331	54	32	22	13	8	5	3	27	32	
344,881	4.333	57	35	24	15	9	5	3	26	31	km 344 = 890m
345,040	4.342	47	28	20	12	7	5	3	27	32	
345,120	4.329	52	35	24	15	9	6	4	26	32	
345,200	4.306	71	45	32	19	11	6	4	26	33	
345,279	4.295	61	39	27	16	9	5	3	26	32	
345,360	4.331	60	37	26	16	9	5	3	27	31	
345,440	4.305	56	37	27	17	10	6	4	27	31	
345,521	4.315	65	45	34	22	14	9	7	26	33	
345,601	4.270	80	54	37	22	11	8	7	27	33	
345,679	4.337	61	42	31	21	13	9	7	26	32	
345,758	4.285	66	46	34	23	15	10	7	27	31	
345,842	4.274	75	50	37	23	14	9	7	27	32	
345,922	4.315	61	41	31	19	10	7	6	27	32	km 345 = 970m
346,000	4.251	50	27	17	10	6	4	2	27	32	
346,079	4.305	58	38	28	19	12	8	6	27	33	
346,160	4.311	65	44	30	18	10	8	6	27	33	
346,238	4.312	63	43	31	20	12	8	7	27	32	
346,318	4.299	72	48	35	23	14	9	7	26	32	
346,399	4.263	72	52	36	21	12	8	6	27	31	
346,479	4.348	50	34	24	15	9	6	4	27	32	
346,562	4.330	49	33	24	15	9	6	5	27	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
346,640	4.312	53	38	27	17	10	7	6	27	32	
346,719	4.274	63	42	30	19	11	6	5	26	30	
346,801	4.314	63	43	31	19	12	9	7	27	31	
346,878	4.305	71	49	36	23	13	8	6	27	33	
346,960	4.305	69	42	30	20	12	8	6	27	32	km 346 = 1025m
347,040	4.280	76	50	33	21	12	8	6	27	33	
347,120	4.285	82	55	39	24	13	8	6	27	31	
347,199	4.289	71	46	34	22	13	8	6	26	32	
347,280	4.317	51	36	26	18	11	7	5	27	33	
347,360	4.357	51	35	26	18	12	8	5	27	34	
347,440	4.338	60	40	29	18	10	6	4	27	33	
347,522	4.303	38	24	18	12	9	7	6	27	35	
347,603	4.323	54	35	26	18	11	8	6	27	32	
347,680	4.346	54	38	28	18	11	8	5	27	34	
347,759	4.321	69	45	32	19	10	7	6	26	33	
347,841	4.292	59	39	28	17	10	6	5	27	33	
347,920	4.366	37	27	21	15	10	6	4	27	34	km 347 = 1000m
348,000	4.364	32	17	11	6	4	3	2	27	33	
348,081	4.371	32	18	12	7	4	3	2	26	33	
348,160	4.285	47	32	26	18	12	9	6	27	35	início de ponte km 348,170
348,240	4.298	59	38	27	18	12	8	6	27	35	fim de ponte km 348,196
348,322	4.344	54	36	27	19	12	7	5	26	34	
348,400	4.328	45	30	22	13	7	5	4	27	38	
348,479	4.311	61	40	29	18	10	7	6	27	38	
348,560	4.303	39	25	19	14	10	7	5	27	36	
348,640	4.290	58	39	26	16	10	7	6	28	37	
348,719	4.267	59	41	31	21	13	9	7	27	38	
348,801	4.290	63	43	32	21	13	9	7	27	39	
348,881	4.316	54	37	28	19	12	8	6	28	39	
348,960	4.290	54	37	27	18	12	8	6	28	40	
349,040	4.309	52	37	29	20	12	8	6	28	39	
349,119	4.323	54	37	28	18	11	8	6	29	38	
349,200	4.307	54	36	26	16	10	6	5	29	37	
349,281	4.307	51	33	25	16	10	6	5	28	40	km 348 = 1350m
349,040	4.311	48	32	23	14	9	6	4	29	37	
349,119	4.307	40	24	17	11	7	4	3	29	36	
349,199	4.321	29	19	14	9	5	4	3	29	39	
349,279	4.341	32	23	17	11	7	4	3	30	41	
349,359	4.311	35	22	16	10	6	4	3	30	39	
349,442	4.300	37	24	17	12	8	5	4	30	41	
349,519	4.313	40	26	18	12	7	5	4	30	39	
349,601	4.278	38	25	19	12	8	5	4	29	40	km 349 = 656m
350,000	4.274	54	26	17	11	7	5	4	29	40	
350,079	4.282	47	30	22	14	8	6	4	30	36	
350,160	4.284	44	30	22	15	9	6	5	30	41	
350,238	4.321	37	26	19	13	8	5	4	30	40	
350,318	4.307	39	26	18	11	6	3	2	30	41	
350,398	4.298	31	20	15	10	7	5	4	29	40	
350,479	4.317	37	23	17	10	6	4	3	30	41	
350,560	4.316	62	34	20	12	7	5	4	29	40	km 350 = 588m
351,040	4.251	58	36	26	16	9	6	5	30	40	
351,120	4.282	53	33	23	15	9	6	5	30	41	
351,201	4.298	58	36	25	16	9	6	4	30	41	
351,281	4.317	44	29	21	13	8	6	4	30	43	
351,359	4.275	40	26	20	14	9	7	5	29	43	
351,440	4.288	42	29	22	15	10	7	5	30	42	
351,519	4.277	36	25	20	14	10	8	6	30	43	
351,600	4.352	39	26	20	13	9	6	5	30	42	
351,680	4.327	46	32	25	15	9	6	4	30	43	
351,760	4.333	40	27	19	12	7	5	4	30	42	
351,839	4.323	35	26	20	13	9	6	4	29	40	
351,919	4.281	43	29	20	14	9	7	5	29	43	
352,001	4.272	51	35	27	18	10	6	4	30	40	km 351 = 1040m
352,080	4.350	45	31	24	16	11	8	6	30	36	
352,160	4.416	55	40	29	18	11	8	6	30	34	
352,240	4.379	43	29	20	12	8	6	5	30	35	
352,321	4.354	47	32	25	17	10	7	5	30	37	
352,399	4.375	41	29	21	14	9	6	5	30	39	
352,479	4.371	37	26	20	13	7	5	4	30	39	
352,559	4.371	45	31	23	14	7	5	3	30	40	
352,640	4.402	50	33	23	15	8	5	4	29	41	
352,720	4.364	57	40	28	17	10	6	4	29	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
352,799	4.330	57	40	28	17	11	8	6	29	41	
352,879	4.348	54	35	24	16	10	8	6	29	39	
352,959	4.280	53	36	26	16	10	7	5	28	39	km 352 = 1000m
353,040	4.372	46	30	21	13	8	6	4	29	40	
353,120	4.305	51	31	22	14	9	6	5	29	37	
353,201	4.284	49	30	21	14	8	5	4	28	41	
353,280	4.296	43	29	21	14	8	5	4	29	41	
353,359	4.388	45	29	21	14	9	6	4	29	42	
353,440	4.359	40	24	18	12	8	5	4	29	37	
353,521	4.352	52	31	22	14	8	5	4	28	38	
353,601	4.330	43	26	19	13	8	6	4	29	40	
353,682	4.311	42	27	20	13	8	6	4	29	40	
353,760	4.286	48	29	20	12	7	5	4	29	40	
353,841	4.302	51	32	23	15	10	6	4	29	38	
353,923	4.315	47	29	20	13	7	5	4	29	35	km 353 = 990m
354,000	4.360	44	37	32	23	14	9	6	28	38	
354,079	4.350	45	27	18	11	6	4	3	29	34	
354,158	4.316	63	42	30	19	11	7	4	29	36	
354,239	4.277	63	39	27	16	9	5	4	29	39	
354,319	4.340	58	35	23	14	9	6	5	29	36	
354,400	4.273	63	38	25	15	9	6	5	29	34	
354,479	4.276	54	31	19	11	7	5	4	28	37	
354,561	4.359	45	31	25	17	10	7	6	29	42	
354,639	4.338	45	30	23	16	10	7	5	29	44	
354,718	4.327	51	33	24	16	10	6	5	29	42	
354,799	4.332	50	35	27	19	13	9	7	29	40	
354,879	4.284	68	47	37	27	18	12	8	29	42	
354,960	4.284	75	59	49	38	27	18	11	29	43	km 354 = 1006m
355,040	4.429	35	23	17	11	7	5	4	29	44	
355,118	4.350	34	22	15	10	6	4	3	29	43	
355,200	4.332	29	19	15	10	7	5	3	29	44	
355,279	4.350	26	21	17	12	8	5	3	29	42	
355,358	4.352	40	29	21	14	8	5	3	29	44	
355,439	4.361	31	22	17	12	8	6	4	29	44	
355,518	4.356	34	24	18	13	9	7	6	28	44	
355,599	4.327	44	28	22	14	8	6	4	29	39	
355,679	4.316	46	28	20	14	9	6	5	29	38	
355,759	4.302	26	23	21	16	10	6	5	29	40	
355,840	4.278	57	39	28	17	11	7	5	28	38	
355,919	4.334	65	45	31	18	10	7	5	29	38	km 355 = 1003m
356,000	4.318	40	29	22	15	11	7	5	27	37	
356,079	4.311	52	41	29	16	10	7	5	28	39	
356,160	4.313	38	24	18	12	8	6	5	28	39	
356,238	4.290	50	30	22	15	10	6	5	28	39	
356,321	4.286	48	38	32	16	11	7	5	29	40	
356,399	4.251	63	43	30	15	9	6	5	29	37	
356,481	4.264	58	40	23	11	7	5	4	29	41	
356,559	4.376	37	33	25	16	9	5	4	28	38	
356,640	4.325	45	30	24	14	9	5	3	28	37	
356,719	4.280	70	41	27	16	9	5	4	29	38	
356,800	4.220	51	31	22	13	7	5	4	29	36	
356,879	4.289	57	36	25	15	9	5	4	29	37	
356,960	4.327	65	40	27	17	10	7	5	28	37	
357,039	4.323	51	36	25	15	9	6	4	29	38	
357,119	4.322	49	36	22	14	8	6	5	29	37	
357,201	4.216	56	39	30	19	11	7	5	29	37	
357,279	4.288	45	31	25	18	11	7	5	29	38	km 356 = 1350m
357,040	4.302	56	36	27	18	12	8	5	29	41	
357,119	4.236	73	46	36	22	9	8	6	29	44	
357,201	4.241	69	44	33	21	13	8	6	29	41	
357,278	4.197	88	66	53	32	18	10	7	29	44	
357,360	4.290	63	48	38	25	15	9	7	29	44	
357,440	4.282	72	54	38	23	14	9	6	29	39	
357,519	4.298	76	57	42	25	14	8	6	29	43	
357,599	4.345	74	51	40	27	18	13	9	29	42	
357,680	4.358	67	50	41	27	17	9	6	29	44	inicio de ponte km 357,722
357,839	4.345	98	60	38	21	11	6	4	29	38	fim de ponte km 357,768
357,919	4.298	54	39	29	14	8	4	3	28	44	km 357 = 1017m
358,000	4.267	66	41	27	14	7	4	3	29	40	
358,082	4.331	67	42	26	14	7	5	4	32	43	
358,161	4.245	55	42	30	17	8	5	4	31	43	
358,240	4.300	50	34	27	17	9	5	4	32	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
358,319	4.220	86	53	31	16	9	6	5	31	43	
358,401	4.309	71	40	27	16	10	7	5	31	44	
358,479	4.250	64	39	27	17	11	7	5	31	44	
358,559	4.264	91	56	33	18	10	6	5	31	44	
358,642	4.261	85	48	28	14	7	5	4	31	44	
358,720	4.276	78	46	29	15	9	6	5	32	44	
358,801	4.246	83	51	34	19	10	7	5	32	44	
358,882	4.272	58	38	26	16	9	6	4	31	44	
358,960	4.290	72	42	27	14	7	5	3	31	43	km 358 = 1000m
359,039	4.265	75	44	27	15	7	5	4	31	44	
359,119	4.262	72	44	29	17	9	5	4	31	43	
359,200	4.311	72	48	30	16	9	6	4	32	42	
359,280	4.354	71	45	28	15	8	5	3	31	43	
359,357	4.317	66	38	26	15	9	6	4	31	43	
359,439	4.284	78	45	26	13	8	6	5	31	43	
359,520	4.279	75	44	28	16	10	7	5	31	42	
359,601	4.237	74	44	29	18	10	7	5	31	42	
359,680	4.286	80	48	29	15	8	5	4	31	42	
359,758	4.274	72	46	30	17	10	6	4	32	41	
359,840	4.279	83	52	34	18	10	7	5	32	42	
359,921	4.280	64	40	28	16	9	6	5	32	42	
359,999	4.284	67	41	27	16	9	6	4	32	41	km 359 = 1000m
360,081	4.263	76	45	29	17	10	6	5	32	42	
360,160	4.268	76	46	30	18	11	7	5	31	42	
360,240	4.282	67	37	24	14	8	6	4	31	41	
360,320	4.293	70	42	27	16	10	7	5	31	42	
360,401	4.277	68	41	28	17	10	6	5	31	43	
360,481	4.284	76	46	29	17	11	8	5	32	43	
360,558	4.267	79	48	33	20	11	7	5	32	42	
360,640	4.296	75	45	29	18	11	8	6	32	43	
360,721	4.277	71	42	29	18	10	6	5	32	42	
360,801	4.295	59	34	23	15	10	7	5	32	43	
360,880	4.286	53	32	23	16	10	7	5	31	44	
360,960	4.264	60	35	23	15	9	6	5	31	43	km 360 = 1003m
361,042	4.265	50	30	21	14	9	5	4	31	45	
361,118	4.300	55	32	22	13	8	6	4	31	44	
361,202	4.247	54	34	24	16	10	6	5	31	45	
361,282	4.325	60	36	26	17	10	7	5	32	45	
361,359	4.254	54	37	27	16	10	6	4	32	44	
361,439	4.290	52	36	29	21	14	10	7	31	43	
361,519	4.274	56	39	31	21	14	9	6	32	42	
361,599	4.234	92	60	43	30	21	14	9	32	42	
361,682	4.274	41	25	18	11	6	4	3	32	43	
361,760	4.296	47	29	19	12	7	5	4	31	44	
361,842	4.313	43	28	21	14	9	6	4	32	44	
361,919	4.268	55	32	23	15	10	6	4	32	43	km 361 = 1000m
361,999	4.263	80	52	38	24	13	8	5	32	44	
362,079	4.263	50	29	21	14	9	6	5	31	45	
362,160	4.272	51	31	22	15	10	7	5	31	45	
362,238	4.288	58	34	24	15	9	6	5	31	44	
362,319	4.279	73	42	24	14	8	5	4	32	42	
362,399	4.290	71	39	24	13	7	5	4	32	43	
362,482	4.252	80	48	29	15	9	6	5	32	42	
362,559	4.309	55	33	24	15	9	5	4	32	44	
362,640	4.333	60	37	26	16	9	5	4	31	45	
362,720	4.261	70	39	23	13	7	5	4	31	43	
362,801	4.255	72	40	26	15	9	6	4	31	42	
362,881	4.264	75	44	26	13	8	5	4	32	41	
362,959	4.308	60	33	23	14	8	4	3	32	43	km 362 = 1000m
363,039	4.272	52	36	26	17	9	5	3	32	42	
363,121	4.311	71	42	28	16	9	5	4	31	43	
363,199	4.248	87	50	32	17	9	6	4	31	42	
363,281	4.279	76	44	28	16	9	6	4	31	42	
363,362	4.302	67	39	25	15	10	6	4	31	42	
363,440	4.248	74	43	28	16	9	6	4	31	42	
363,521	4.259	66	38	24	13	7	4	3	31	42	
363,599	4.266	54	33	22	14	7	4	3	32	43	
363,679	4.284	52	31	23	16	9	6	5	32	44	
363,758	4.291	78	50	34	21	12	7	4	32	42	
363,838	4.266	69	42	29	17	8	4	3	32	43	
363,918	4.266	70	39	26	14	7	4	3	31	42	km 363 = 1000m
364,000	4.284	57	33	23	14	8	5	3	32	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
364,079	4.266	69	38	24	13	8	7	5	31	42	
364,160	4.266	83	49	31	19	11	7	5	31	42	
364,240	4.234	68	41	27	17	10	7	5	31	42	
364,320	4.277	53	34	24	16	11	7	5	31	43	
364,401	4.250	62	37	25	16	10	6	5	31	43	
364,478	4.261	52	32	23	15	10	6	5	32	44	
364,560	4.304	48	31	24	17	11	8	5	32	44	
364,643	4.279	45	29	22	16	10	7	4	32	44	
364,721	4.277	59	36	26	16	10	6	4	32	44	
364,801	4.218	66	40	30	18	10	7	5	32	44	
364,879	4.274	40	22	16	12	9	6	4	31	45	
364,962	4.290	56	33	23	14	8	5	4	31	44	km 364 = 1000m
365,040	4.228	60	34	24	15	9	6	4	31	45	
365,121	4.259	85	50	32	17	9	6	5	32	44	
365,199	4.239	74	43	29	16	9	6	4	32	44	
365,282	4.269	69	48	32	19	10	6	4	32	44	
365,360	4.293	54	35	26	18	12	8	6	32	44	
365,441	4.259	76	51	37	19	11	8	7	31	43	
365,523	4.315	50	38	30	19	11	8	6	31	44	
365,599	4.234	63	44	33	21	11	7	5	31	43	
365,680	4.243	60	44	36	27	19	13	9	31	44	
365,762	4.293	71	51	41	30	19	12	8	32	44	
365,841	4.279	47	32	25	16	9	5	3	32	44	
365,923	4.277	74	54	41	28	16	9	5	31	44	km 365 = 1000m
366,001	4.286	51	38	31	22	15	10	6	31	43	
366,080	4.226	94	56	39	23	15	10	8	31	43	
366,161	4.190	97	69	57	42	29	20	14	31	44	
366,238	4.269	60	38	29	20	14	10	8	31	44	
366,320	4.236	72	44	33	21	13	8	6	32	44	
366,400	4.272	66	45	35	25	16	11	7	32	44	
366,482	4.266	61	39	30	20	13	9	6	32	44	
366,563	4.193	87	58	41	26	16	10	7	32	43	
366,640	4.293	60	40	31	21	14	9	6	32	44	
366,719	4.250	80	53	40	27	16	10	6	31	45	
366,800	4.252	71	47	37	26	17	11	8	32	44	
366,881	4.259	69	43	31	19	11	7	5	31	42	
366,960	4.262	69	43	31	19	10	5	3	31	41	km 366 = 1000m
367,038	4.321	38	23	19	13	9	6	4	31	43	
367,121	4.266	47	29	22	16	10	7	5	32	42	
367,202	4.302	57	37	28	19	12	8	5	32	43	
367,280	4.282	47	29	23	16	10	6	4	31	43	
367,361	4.277	53	34	27	18	11	7	5	32	43	
367,442	4.286	28	23	20	15	10	7	5	32	41	
367,523	4.267	83	52	36	22	12	8	6	31	42	
367,599	4.259	61	45	38	27	17	11	7	31	43	
367,682	4.199	86	62	46	27	15	9	6	31	41	
367,760	4.248	46	30	23	15	8	5	4	31	43	
367,840	4.264	49	32	25	17	11	8	6	31	43	
367,921	4.217	99	73	60	41	24	13	7	31	44	km 367 = 1000m
368,001	4.225	131	94	75	54	36	24	15	31	43	
368,081	4.298	73	51	38	25	16	9	6	31	43	
368,160	4.309	48	33	26	18	12	9	7	32	43	
368,239	4.317	48	31	23	15	10	7	5	31	44	
368,319	4.282	40	27	21	14	9	6	5	31	43	
368,403	4.282	54	35	27	18	11	7	5	31	40	
368,482	4.253	48	30	22	15	9	6	4	31	39	
368,562	4.303	42	24	17	11	7	5	3	31	41	
368,639	4.282	72	42	29	19	11	8	5	31	42	
368,719	4.286	60	36	25	16	10	7	5	32	43	
368,801	4.273	65	38	24	13	7	4	3	31	41	
368,882	4.273	54	33	23	13	7	4	3	31	42	
368,962	4.276	53	36	23	12	6	4	3	32	42	km 368 = 1000m
369,042	4.348	31	20	16	11	7	5	4	31	41	
369,123	4.292	47	30	23	16	10	7	5	31	41	
369,201	4.307	51	31	23	16	10	7	5	32	42	
369,281	4.303	43	28	22	15	10	6	4	32	42	
369,360	4.284	57	33	23	14	8	5	4	31	42	
369,442	4.272	56	32	22	13	8	6	5	31	43	
369,520	4.296	55	33	24	15	10	8	6	31	42	
369,601	4.293	60	34	24	16	10	8	6	32	43	
369,681	4.288	46	30	23	15	10	7	5	31	44	
369,759	4.296	35	26	21	14	9	6	4	31	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
369.839	4.302	68	44	30	18	10	6	5	31	44	
369.921	4.316	47	30	21	14	9	6	4	32	42	km 369 = 1000m
369.999	4.300	64	38	24	14	8	5	4	32	42	
370.080	4.269	61	37	25	15	9	5	4	31	43	
370.160	4.286	56	36	27	17	10	6	4	31	42	
370.239	4.259	49	32	24	16	10	6	4	32	42	
370.321	4.259	59	34	23	15	9	6	4	32	44	
370.401	4.223	72	44	28	17	10	6	4	31	43	
370.481	4.262	61	37	25	15	8	5	4	31	43	
370.561	4.273	44	31	25	17	11	6	4	31	44	
370.641	4.255	61	38	28	18	11	6	4	31	44	
370.719	4.233	47	28	22	15	10	7	5	32	43	
370.801	4.219	57	42	35	20	12	8	6	31	42	
370.878	4.262	67	44	32	20	13	9	7	31	43	
370.960	4.230	109	81	65	48	33	22	15	31	41	km 370 = 1000m
371.040	4.220	101	78	64	48	33	22	14	31	42	
371.119	4.243	53	39	33	26	19	14	10	31	39	
371.201	4.291	62	42	32	21	13	8	5	31	46	início de ponte km 371,235
371.360	4.264	62	38	26	16	10	8	6	31	45	fim de ponte km 371,265
371.440	4.251	65	50	40	27	17	12	9	31	45	
371.518	4.243	74	49	37	25	17	13	10	31	44	
371.599	4.251	59	43	35	25	17	12	9	31	45	
371.681	4.275	89	51	31	17	8	4	3	32	45	
371.756	4.304	54	40	30	17	10	7	4	31	45	
371.840	4.272	77	45	30	19	12	9	6	31	46	
371.919	4.245	73	45	32	20	13	9	7	31	47	km 371 = 1000m
372.000	4.274	77	49	33	21	14	10	7	31	42	
372.079	4.304	81	51	36	22	13	9	7	23	27	
372.160	4.381	73	42	28	17	11	8	6	23	27	
372.240	4.347	57	37	28	18	11	8	6	23	28	
372.319	4.319	72	43	30	18	11	8	6	23	28	
372.400	4.349	53	33	24	16	10	7	5	24	30	
372.481	4.352	43	27	20	14	9	7	5	24	30	
372.560	4.373	46	27	19	13	8	5	4	25	30	
372.639	4.363	65	36	23	13	8	5	4	25	30	
372.720	4.336	48	32	25	17	10	6	4	25	30	
372.800	4.346	65	41	30	18	10	6	4	25	30	
372.881	4.359	78	46	30	18	10	6	4	25	31	
372.960	4.377	46	31	24	15	9	5	4	25	30	km 372 = 1000m
373.042	4.306	63	40	28	18	11	7	5	25	31	
373.121	4.304	64	39	27	17	11	8	5	25	31	
373.200	4.306	67	44	33	22	13	7	5	26	31	
373.281	4.297	68	44	31	20	12	8	5	26	32	
373.360	4.304	77	47	32	20	12	8	5	26	31	
373.442	4.276	71	44	32	20	12	8	6	25	32	
373.519	4.313	59	37	26	17	11	8	6	26	32	
373.600	4.352	70	42	28	18	12	8	6	26	32	
373.681	4.320	48	31	25	17	11	8	6	26	32	
373.759	4.311	68	46	30	18	11	8	6	26	32	
373.841	4.295	62	41	30	20	13	8	6	25	33	
373.921	4.331	56	38	28	19	12	8	6	26	32	km 373 = 1000m
374.000	4.274	55	34	24	15	10	6	4	26	32	
374.081	4.284	66	42	30	18	10	7	5	26	32	
374.160	4.317	48	30	22	14	9	6	4	26	33	
374.240	4.318	51	30	22	13	9	6	5	26	33	
374.321	4.322	52	33	24	16	10	7	5	26	33	
374.399	4.318	54	33	24	16	10	6	4	27	33	
374.480	4.311	66	40	28	18	11	7	5	26	33	
374.560	4.346	66	44	33	22	13	8	6	27	34	
374.639	4.292	58	44	36	27	19	14	11	27	34	
374.719	4.322	65	50	41	31	22	16	11	26	33	início de ponte km 374,879
374.800	4.274	59	42	33	24	16	11	8	27	34	fim de ponte km 374,930
374.962	4.302	68	40	27	18	11	7	4	27	34	km 374 = 1000m
375.041	4.293	58	35	25	16	10	7	6	27	33	
375.120	4.306	68	47	32	17	11	8	6	27	34	
375.200	4.336	72	46	34	20	11	7	5	27	34	
375.280	4.340	82	51	33	19	10	7	5	27	33	
375.360	4.331	72	46	32	20	12	7	5	26	34	
375.440	4.336	81	52	34	20	12	8	6	27	33	
375.521	4.282	73	46	33	21	12	8	6	27	33	
375.601	4.304	71	44	28	16	11	8	6	27	34	
375.681	4.327	79	52	38	23	12	7	4	27	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
375,759	4.304	64	39	26	17	10	7	5	28	34	
375,839	4.315	84	55	36	19	10	7	4	27	34	
375,920	4.329	85	54	34	18	11	7	5	28	35	km 375 = 1000m
376,000	4.340	85	53	33	20	12	8	5	28	34	
376,079	4.340	84	52	31	17	9	6	4	27	34	
376,160	4.331	87	52	33	19	11	7	5	27	35	
376,240	4.346	58	35	26	17	11	7	5	27	34	
376,321	4.320	60	35	25	15	10	7	5	27	33	
376,400	4.282	66	39	26	16	10	7	6	27	33	
376,480	4.329	53	32	22	15	10	7	5	28	34	
376,560	4.300	74	44	29	17	10	7	5	28	34	
376,640	4.318	85	49	29	16	9	6	4	28	34	
376,721	4.313	48	31	23	14	8	5	4	27	34	
376,800	4.329	55	34	25	16	10	7	5	27	34	
376,881	4.261	105	64	41	23	12	8	6	28	33	
376,960	4.272	76	45	30	17	10	6	5	27	34	km 376 = 1000m
377,040	4.325	71	43	30	18	10	6	5	27	34	
377,119	4.257	55	31	22	14	10	7	5	27	34	
377,201	4.262	63	39	26	16	10	7	6	28	35	
377,280	4.272	45	29	22	15	10	7	6	28	34	
377,360	4.250	91	58	33	17	10	7	5	27	35	
377,441	4.266	65	44	32	20	12	7	5	27	35	
377,522	4.269	60	41	31	21	13	9	7	27	34	
377,601	4.286	63	42	32	23	16	12	9	27	34	
377,679	4.268	66	45	34	22	14	9	6	28	36	
377,760	4.294	57	39	30	20	13	9	6	28	36	
377,842	4.255	98	69	56	43	32	23	16	28	36	
377,919	4.290	103	65	39	19	10	6	5	28	36	km 377 = 1000m
378,000	4.291	71	44	26	13	8	6	5	28	36	
378,079	4.292	52	33	23	14	9	7	5	28	36	
378,160	4.257	82	54	39	24	14	8	6	29	36	
378,241	4.327	96	55	31	16	8	4	3	28	36	
378,320	4.347	62	34	22	13	8	6	4	29	36	
378,399	4.286	80	47	27	15	9	6	4	29	35	
378,481	4.322	68	40	27	15	9	6	5	29	35	
378,560	4.271	64	42	31	19	11	7	5	28	36	
378,640	4.237	78	52	36	22	11	7	5	29	37	
378,720	4.358	83	50	32	17	10	6	4	29	36	
378,801	4.313	81	50	32	18	10	7	5	29	36	
378,882	4.292	74	45	30	17	10	7	5	29	37	
378,960	4.265	82	49	36	22	14	9	6	29	37	km 378 = 960m
379,040	4.272	91	62	38	20	13	8	6	28	35	
379,121	4.306	64	42	32	22	15	11	9	29	37	
379,200	4.257	101	70	52	35	23	18	13	28	37	
379,282	4.333	51	37	31	23	16	12	9	28	37	
379,362	4.315	40	29	23	16	12	9	7	29	37	
379,440	4.304	78	44	26	13	7	5	4	29	37	
379,520	4.298	51	34	26	17	10	7	5	29	36	
379,603	4.325	82	49	27	13	8	6	5	29	36	
379,681	4.320	68	46	29	14	10	7	5	29	36	
379,759	4.286	83	54	37	23	12	9	6	29	37	
379,841	4.263	75	46	31	18	12	8	6	28	36	
379,921	4.300	74	46	30	18	11	8	6	29	36	
379,999	4.277	52	36	27	18	12	7	5	29	35	km 379 = 1045m
380,079	4.291	65	40	29	19	11	7	5	29	37	
380,160	4.275	70	41	26	14	8	5	4	28	37	
380,240	4.307	62	37	25	13	8	5	4	29	35	
380,320	4.282	55	34	24	15	9	6	4	29	34	
380,399	4.349	73	41	26	13	8	5	4	29	34	
380,482	4.306	65	36	24	15	9	7	5	29	33	
380,560	4.322	77	46	30	17	9	6	4	27	33	
380,640	4.278	73	43	27	16	9	7	5	28	33	
380,720	4.317	65	38	27	18	11	8	5	27	31	
380,801	4.270	73	39	22	11	6	4	3	28	34	
380,879	4.272	68	41	30	20	13	9	7	27	35	
380,959	4.284	90	50	33	20	12	8	6	27	35	km 380 = 1000m
381,040	4.302	65	42	29	16	10	7	5	27	36	
381,119	4.243	56	35	27	18	11	8	6	28	36	
381,201	4.295	57	34	25	16	10	8	6	28	36	
381,282	4.317	75	42	25	13	9	8	6	28	36	
381,360	4.349	59	38	28	18	12	8	6	27	36	
381,440	4.332	86	55	38	24	15	10	8	28	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
381,519	4,298	78	51	37	24	15	11	9	28	36	
381,601	4,317	67	43	32	21	15	10	8	28	36	
381,681	4,228	68	46	32	19	11	8	7	27	36	
381,760	4,321	58	36	24	15	10	7	6	27	36	
381,840	4,257	65	38	23	14	9	6	5	27	35	km 381 = 890m
382,000	4,386	64	38	24	14	8	6	5	23	27	
382,079	4,270	68	39	24	13	9	7	5	27	34	
382,162	4,265	72	38	23	13	9	7	5	27	34	
382,240	4,333	79	43	26	15	10	7	6	28	34	
382,319	4,263	69	38	25	15	10	8	6	28	34	
382,400	4,241	74	44	28	17	12	9	7	28	34	
382,480	4,261	66	40	28	18	11	7	5	27	35	
382,560	4,264	67	41	29	19	11	8	6	28	35	
382,638	4,263	51	34	27	18	11	7	5	27	33	
382,721	4,270	84	50	31	16	8	7	6	27	33	
382,800	4,303	54	48	23	14	8	6	5	27	34	
382,881	4,303	54	39	31	20	12	8	5	27	34	
382,960	4,359	66	49	27	16	10	7	5	27	35	
383,040	4,318	77	45	29	16	10	7	6	28	35	km 382 = 1106m
383,040	4,329	65	39	30	16	11	8	6	27	34	
383,121	4,367	85	55	37	21	13	9	7	27	35	
383,201	4,299	97	65	48	28	17	13	10	28	33	
383,281	4,283	69	47	36	22	14	9	7	27	31	
383,360	4,254	88	51	33	18	9	6	4	27	35	
383,441	4,300	94	57	35	18	10	5	3	27	33	
383,521	4,249	101	57	33	15	7	5	3	27	34	
383,600	4,308	91	50	32	14	9	7	5	27	34	
383,681	4,290	97	58	35	18	10	8	6	28	34	
383,760	4,322	52	31	24	15	9	6	5	27	35	
383,840	4,268	83	50	31	17	10	7	5	28	34	
383,920	4,270	62	39	26	15	8	6	4	27	35	km 383 = 1000m
384,000	4,329	43	26	19	12	7	5	4	27	35	
384,080	4,276	75	43	25	14	8	6	5	27	34	
384,159	4,280	74	40	23	12	7	5	4	28	35	
384,240	4,303	75	41	25	14	8	5	4	27	35	
384,321	4,290	78	43	27	15	8	5	4	27	35	
384,398	4,278	83	46	26	13	6	4	3	28	35	
384,479	4,268	69	38	24	13	8	5	4	28	35	
384,559	4,292	71	44	30	17	9	6	4	28	35	
384,640	4,279	70	42	29	17	10	7	4	28	35	
384,719	4,216	88	58	44	30	20	14	11	28	35	
384,799	4,243	71	45	33	22	14	9	7	27	35	
384,882	4,274	64	38	26	16	10	6	4	28	35	
384,960	4,229	91	60	39	22	11	7	5	28	35	km 384 = 1000m
385,040	4,079	187	141	109	75	48	30	18	27	33	
385,121	4,240	103	62	42	24	11	7	5	27	33	início de ponte km 385,190
385,283	4,234	106	69	46	25	13	8	5	27	34	fim de ponte km 385,238
385,360	4,313	69	42	28	16	10	7	5	27	34	
385,442	4,261	89	59	43	27	14	9	6	27	34	
385,522	4,253	94	59	38	20	9	4	3	27	34	
385,599	4,272	77	46	31	17	9	5	3	27	34	
385,682	4,301	68	40	28	17	10	6	4	27	35	
385,762	4,272	77	44	28	16	9	6	4	27	33	
385,839	4,299	66	38	24	13	7	5	4	28	34	
385,919	4,283	67	39	25	14	8	5	3	27	34	
385,999	4,297	60	36	25	15	8	5	4	27	33	
386,079	4,263	75	39	23	12	7	5	4	28	33	km 385 = 1095m
386,079	4,280	63	36	24	15	9	6	4	27	34	
386,161	4,294	62	39	26	16	10	7	5	28	34	
386,242	4,288	61	33	22	13	9	6	5	28	33	
386,322	4,256	77	44	27	15	9	6	4	28	34	
386,400	4,294	77	43	28	15	9	7	5	27	33	
386,481	4,312	90	53	28	14	9	6	5	28	33	
386,561	4,251	70	43	30	18	12	8	6	28	33	
386,640	4,263	100	57	35	18	10	6	5	28	35	
386,720	4,270	95	65	39	20	11	8	5	27	34	
386,800	4,270	83	54	39	23	12	7	5	28	34	
386,878	4,308	72	48	36	22	13	8	6	28	35	km 386 = 920m
387,040	4,243	87	71	41	22	12	8	5	28	35	
387,118	4,280	73	49	34	20	10	7	5	27	34	
387,199	4,310	68	43	32	14	9	6	5	27	34	
387,281	4,274	73	45	32	18	10	6	4	27	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
387,362	4.272	77	48	34	20	10	5	5	27	34	
387,442	4.280	71	44	29	17	9	5	4	27	35	
387,520	4.278	69	40	26	13	6	4	3	28	34	
387,599	4.279	68	39	25	14	7	4	3	27	33	
387,681	4.294	65	38	24	13	7	4	3	28	34	
387,760	4.296	58	36	26	14	8	5	4	28	33	
387,839	4.314	54	33	24	16	10	6	5	28	34	
387,918	4.274	67	38	25	14	7	5	4	27	35	km 387 = 1014m
387,999	4.292	70	41	28	17	10	7	5	27	34	
388,080	4.227	91	59	44	30	19	12	8	27	35	
388,160	4.283	76	50	36	22	12	8	5	28	34	
388,240	4.274	79	51	38	25	15	9	5	28	34	
388,321	4.269	86	57	43	29	17	10	7	28	34	
388,399	4.272	101	67	49	33	22	14	9	27	35	
388,481	4.281	66	47	37	25	16	10	6	27	35	
388,560	4.197	165	120	95	64	37	18	9	27	35	
388,640	4.200	125	90	73	53	36	24	16	27	36	
388,719	4.265	62	41	28	16	9	6	5	27	35	
388,801	4.276	81	52	37	22	13	8	5	28	35	
388,879	4.299	68	44	32	19	10	7	5	28	35	
388,959	4.274	69	50	38	24	15	10	6	28	35	km 388 = 1005m
389,040	4.307	72	46	34	22	13	8	5	27	35	
389,121	4.321	64	45	35	24	15	11	9	27	35	
389,201	4.358	55	37	22	12	7	5	4	28	35	
389,280	4.272	65	40	28	17	10	7	5	27	35	
389,361	4.230	77	49	35	22	13	8	6	28	35	
389,440	4.278	78	56	38	23	14	10	7	28	35	
389,521	4.303	78	49	33	19	11	7	5	28	35	
389,599	4.334	50	33	25	15	8	5	4	28	35	
389,681	4.270	60	41	33	25	17	13	10	27	36	
389,759	4.283	89	65	50	34	22	15	10	28	35	
389,840	4.268	81	60	48	34	21	12	7	28	36	
389,918	4.227	82	55	37	23	14	10	7	28	35	km 389 = 1005m
390,000	4.270	56	44	32	15	9	5	3	28	36	
390,081	4.493	73	49	34	19	10	6	4	20	24	
390,160	4.376	99	70	47	30	20	15	10	20	25	
390,240	4.520	73	52	43	27	17	12	9	21	23	
390,321	4.466	80	59	43	21	12	9	6	21	24	
390,401	4.478	74	48	34	20	9	6	4	21	24	
390,479	4.460	65	38	26	17	11	8	5	20	24	
390,561	4.454	65	38	27	15	10	7	5	21	24	
390,640	4.449	66	46	34	21	13	9	6	21	24	
390,720	4.380	78	48	32	19	11	8	5	21	25	
390,800	4.399	73	45	30	18	12	8	6	21	24	
390,879	4.412	82	50	34	19	11	7	5	20	25	
390,960	4.386	81	47	31	18	10	6	5	21	24	km 390 = 1000m
391,040	4.422	78	48	32	19	11	7	4	21	24	
391,119	4.408	67	45	31	17	9	6	4	21	25	
391,200	4.374	52	34	23	14	8	5	4	21	24	
391,281	4.340	72	47	30	15	7	5	4	21	25	
391,361	4.393	77	50	34	20	12	7	5	21	25	
391,442	4.422	80	47	29	15	9	6	4	22	25	
391,519	4.353	70	45	32	20	12	7	5	22	26	
391,599	4.337	62	44	28	15	9	6	4	21	26	
391,680	4.441	77	48	26	10	7	5	4	22	25	
391,759	4.326	65	44	26	15	8	6	4	22	25	
391,842	4.395	73	48	36	22	13	8	5	22	25	
391,919	4.380	67	44	33	21	13	8	6	22	26	km 391 = 1000m
392,001	4.335	46	31	24	16	10	6	5	22	26	
392,078	4.326	84	56	37	20	11	7	5	22	25	
392,161	4.331	97	66	44	25	15	9	6	22	25	
392,240	4.351	81	51	32	19	11	7	5	22	26	
392,321	4.360	59	44	30	17	9	6	4	22	24	
392,399	4.366	73	50	37	22	12	7	5	21	26	
392,479	4.398	86	57	37	23	13	9	6	22	25	
392,562	4.263	109	81	64	47	32	21	14	22	26	
392,640	4.263	102	80	67	52	35	24	16	21	25	
392,721	4.355	91	67	55	41	29	20	14	21	26	
392,801	4.337	87	57	43	29	19	14	10	22	26	
392,881	4.351	67	44	26	13	8	5	5	22	24	
392,960	4.280	67	46	27	14	7	5	4	22	24	km 392 = 1000m
393,040	4.427	68	41	25	14	9	6	5	22	26	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
393,121	4.364	75	45	24	15	7	5	4	22	26	
393,201	4.353	66	37	24	14	8	5	4	22	26	
393,282	4.301	81	50	32	20	13	8	5	22	26	
393,361	4.309	82	45	27	14	8	5	4	21	26	
393,440	4.312	86	53	33	18	9	6	4	20	26	
393,520	4.348	85	48	29	15	8	5	3	22	26	
393,601	4.324	66	38	24	14	9	6	4	21	26	
393,680	4.343	76	45	28	17	9	6	4	21	25	
393,761	4.348	68	43	30	18	11	7	5	21	25	
393,841	4.333	66	41	31	18	11	7	5	21	26	
393,919	4.344	77	47	32	19	12	8	5	21	26	
393,999	4.340	64	37	25	15	9	6	5	22	26	km 393 = 1000m
394,079	4.344	73	43	26	15	9	7	5	22	26	
394,160	4.346	62	38	25	15	9	6	4	22	26	
394,239	4.339	79	48	32	19	11	6	4	21	26	
394,322	4.350	61	37	26	16	10	7	5	21	27	
394,401	4.296	74	43	28	17	10	7	5	22	26	
394,481	4.296	85	55	39	25	16	11	8	22	26	
394,558	4.295	75	42	27	15	9	6	5	22	26	
394,640	4.356	68	39	25	15	10	7	5	22	26	
394,721	4.319	48	28	18	11	6	4	3	22	27	
394,802	4.305	60	36	26	15	8	5	4	22	26	
394,881	4.331	61	38	25	15	8	6	5	22	27	
394,960	4.252	75	57	45	33	23	16	11	22	26	km 394 = 1000m
395,040	4.303	76	53	42	29	19	12	8	22	27	
395,120	4.288	83	55	42	30	20	13	9	22	28	
395,199	4.333	33	22	17	11	7	5	4	23	28	
395,281	4.285	65	33	20	12	8	6	4	22	26	
395,361	4.358	49	28	19	12	7	5	4	22	28	
395,438	4.321	61	39	28	17	10	6	5	23	29	
395,521	4.263	124	86	66	44	29	20	13	22	28	
395,600	4.310	78	54	44	33	23	17	13	22	29	
395,681	4.312	63	42	31	21	13	9	7	23	29	
395,762	4.317	71	50	41	30	22	16	11	23	29	
395,841	4.294	95	68	55	41	28	20	14	23	30	
395,920	4.290	85	60	48	34	23	15	10	23	30	
396,001	4.288	75	49	36	24	14	9	6	23	32	km 395 = 1000m
396,081	4.211	130	89	65	43	27	18	11	24	27	
396,160	4.297	86	53	34	20	12	8	5	24	31	
396,239	4.292	75	52	40	27	17	11	7	25	30	
396,321	4.258	70	51	39	28	18	12	9	24	31	
396,401	4.314	77	57	46	33	22	16	10	25	30	
396,480	4.319	72	44	32	20	12	9	7	24	31	
396,560	4.305	82	56	44	31	20	13	9	24	31	km 396 = 625m
397,040	4.333	55	34	25	16	11	7	6	25	32	
397,119	4.294	66	42	28	17	11	8	6	25	31	
397,201	4.290	59	37	27	17	11	7	5	25	31	
397,281	4.311	60	38	26	16	10	7	5	24	31	
397,360	4.310	39	28	22	15	10	7	5	25	32	
397,438	4.364	61	37	25	16	9	6	5	25	32	
397,519	4.300	62	40	30	20	13	8	5	25	32	
397,601	4.350	63	41	29	20	12	8	6	25	33	
397,679	4.305	48	30	23	15	10	6	5	25	32	
397,759	4.339	50	33	25	18	11	7	5	25	32	
397,838	4.251	58	36	26	17	11	8	6	25	33	
397,921	4.328	56	36	27	18	11	8	6	26	33	
398,001	4.299	66	40	29	20	13	9	7	26	33	
398,079	4.274	70	45	32	21	14	9	7	25	34	
398,159	4.265	72	49	36	23	14	10	8	26	33	
398,240	4.284	41	30	26	20	14	10	8	26	35	
398,318	4.380	75	60	48	34	23	16	10	26	34	km 397 = 1360m
398,079	4.276	101	73	57	41	29	20	14	25	34	
398,160	4.284	96	64	45	28	18	13	9	24	33	
398,240	4.204	111	82	63	44	30	21	15	26	34	
398,319	4.257	82	57	44	30	20	14	10	26	35	
398,397	4.282	81	55	41	29	19	13	9	26	35	
398,479	4.284	58	38	29	21	15	11	9	26	35	
398,560	4.241	88	59	45	33	23	17	12	26	35	
398,638	4.235	82	51	32	20	12	9	6	26	36	
398,721	4.344	66	46	31	17	9	6	4	26	34	
398,799	4.283	84	53	36	21	13	9	7	26	36	
398,879	4.249	92	59	38	21	12	8	6	26	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
404,799	4,265	64	37	25	15	8	5	4	29	33	
404,880	4,244	68	41	27	15	9	7	4	29	33	
404,958	4,241	70	42	27	16	9	7	5	29	33	km 404 = 1000m
405,040	4,348	83	53	36	19	10	6	4	29	33	
405,119	4,290	92	56	37	21	12	7	5	29	32	
405,201	4,301	58	38	26	12	7	5	3	29	33	
405,282	4,323	80	54	34	18	8	5	3	29	32	
405,361	4,299	82	54	36	21	11	6	4	29	33	
405,440	4,276	80	46	24	12	7	5	4	29	33	
405,520	4,335	71	44	29	17	10	6	4	29	33	
405,601	4,283	75	42	26	14	8	6	4	29	32	
405,682	4,297	52	38	27	14	10	7	6	29	33	
405,760	4,349	89	51	33	19	12	8	6	29	33	
405,842	4,317	55	33	23	15	10	8	6	29	34	
405,919	4,295	65	40	24	13	8	6	4	29	34	km 405 = 1000m
406,000	4,326	75	43	29	18	11	7	5	29	33	
406,079	4,297	46	30	24	15	9	6	4	29	34	
406,160	4,306	80	54	35	16	9	6	4	29	35	
406,240	4,283	54	38	26	17	10	7	5	29	34	
406,320	4,223	66	40	26	15	9	7	5	30	34	
406,399	4,219	64	45	33	19	10	7	5	30	34	
406,481	4,309	80	52	33	21	12	9	6	30	35	
406,559	4,293	81	49	35	21	13	8	6	30	35	
406,640	4,280	74	45	30	18	12	8	6	30	35	
406,721	4,311	107	67	34	17	10	8	5	31	34	
406,800	4,274	35	24	19	13	9	6	5	30	35	
406,880	4,264	47	30	22	15	10	7	5	30	35	
406,962	4,305	53	34	26	19	13	8	6	31	36	km 406 = 1000m
407,040	4,219	62	39	30	20	12	8	6	31	35	
407,119	4,288	59	36	27	18	11	7	4	31	35	
407,199	4,323	39	26	21	15	11	8	6	31	35	
407,281	4,296	44	29	24	17	12	8	5	31	36	
407,359	4,320	76	45	28	15	9	7	5	31	35	
407,442	4,280	98	54	32	18	11	8	6	31	36	
407,519	4,239	59	38	29	20	13	8	5	32	37	
407,599	4,243	103	58	32	17	10	7	5	31	36	
407,681	4,272	67	42	29	17	10	7	5	31	36	
407,763	4,220	83	50	33	19	10	6	4	32	36	
407,840	4,290	85	50	32	18	10	7	4	32	37	
407,921	4,345	76	47	30	18	10	7	4	32	36	km 407 = 1000m
408,001	4,323	65	38	26	18	12	8	6	31	36	
408,082	4,334	67	38	25	16	10	7	5	31	36	
408,161	4,323	61	33	22	15	11	8	6	32	37	
408,239	4,318	49	30	23	16	12	8	6	32	36	
408,321	4,293	64	38	26	16	10	6	5	31	36	
408,402	4,284	63	43	33	20	13	8	6	32	37	
408,479	4,248	48	42	27	18	10	7	5	32	37	
408,561	4,292	73	44	30	19	12	7	5	32	37	
408,640	4,253	46	29	22	15	11	7	5	32	38	
408,720	4,217	66	40	25	16	10	7	5	32	37	
408,799	4,298	57	33	21	12	7	5	4	33	38	
408,880	4,244	78	45	27	15	10	7	5	32	37	
408,962	4,257	74	41	28	16	9	7	5	32	37	km 408 = 1000m
409,043	4,272	76	49	29	15	8	4	3	32	38	
409,122	4,332	75	49	32	17	8	6	5	33	38	
409,200	4,270	51	49	33	23	10	5	4	33	37	
409,279	4,319	66	42	27	14	8	5	4	33	37	
409,358	4,257	59	41	27	14	7	5	4	33	37	
409,440	4,271	82	49	33	19	11	6	4	32	38	
409,523	4,235	72	50	34	20	12	8	5	33	37	
409,601	4,268	73	44	31	19	11	6	4	33	37	
409,681	4,278	75	46	32	21	13	9	6	33	38	
409,760	4,284	76	47	33	20	11	7	5	33	38	
409,841	4,253	66	40	26	16	10	7	6	33	37	
409,919	4,285	51	30	21	13	8	5	4	32	38	km 409 = 1000m
410,000	4,235	53	33	24	16	10	6	4	32	37	
410,081	4,221	77	48	33	19	11	7	5	33	37	
410,160	4,241	62	42	31	18	9	6	4	33	37	
410,241	4,273	53	35	27	19	12	8	5	33	38	
410,321	4,289	64	39	26	16	9	6	4	33	37	
410,399	4,311	51	31	22	15	9	6	4	33	36	
410,482	4,324	52	37	28	19	13	8	6	33	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 0,0 ao km 470,4				DATA: fev/2007					
PISTA: Crescente		FAIXA: Simples									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
410.559	4.298	50	35	26	18	12	8	5	33	36	
410.640	4.314	58	35	25	16	10	6	5	33	38	
410.720	4.307	64	41	31	21	14	9	6	32	37	
410.799	4.262	65	38	27	16	10	7	5	33	38	
410.879	4.239	88	58	44	29	17	10	6	32	38	
410.960	4.241	47	33	27	20	13	9	6	33	38	km 410 = 1000m
411.040	4.266	59	37	25	16	9	5	4	33	38	
411.120	4.353	73	56	44	28	14	9	7	33	38	
411.200	4.323	49	36	29	19	12	6	4	33	38	
411.280	4.278	55	40	29	18	10	6	4	32	39	
411.360	4.262	66	44	34	22	14	9	7	33	38	
411.440	4.244	57	31	19	11	7	5	4	33	39	
411.520	4.291	47	30	24	16	11	7	5	33	39	
411.600	4.321	51	34	27	14	8	6	5	33	39	
411.680	4.248	21	17	15	12	9	7	5	33	40	
411.760	4.182	83	57	41	15	11	8	6	33	39	
411.840	4.232	61	41	33	20	11	7	5	33	39	
411.920	4.235	64	51	26	15	8	5	4	32	39	km 411 = 1000m
412.000	4.273	84	49	31	12	7	6	5	32	38	
412.080	4.321	36	24	20	15	10	7	5	33	39	
412.160	4.280	58	34	23	14	9	6	5	33	39	
412.240	4.276	58	39	29	16	9	6	5	33	38	
412.320	4.328	31	21	17	13	9	6	4	33	39	
412.400	4.292	63	39	26	16	9	6	4	32	38	
412.480	4.196	86	61	39	23	10	6	4	33	39	
412.560	4.321	40	27	22	15	10	6	4	33	38	
412.640	4.280	58	38	29	19	11	7	5	32	39	
412.720	4.298	61	40	28	18	11	7	4	33	39	
412.800	4.309	43	28	21	15	9	6	4	33	39	
412.880	4.321	40	27	22	15	10	6	4	33	38	
412.960	4.332	31	21	18	14	10	7	5	33	38	km 412 = 1000m
413.040	4.317	28	19	16	13	10	7	5	32	38	
413.121	4.268	30	21	17	13	9	6	4	32	39	
413.203	4.314	26	18	16	12	9	6	4	33	38	
413.282	4.305	32	23	19	15	11	8	6	33	39	
413.361	4.290	34	22	18	13	9	6	5	33	40	
413.442	4.298	54	36	26	17	10	7	5	33	39	
413.522	4.302	51	34	26	17	10	7	5	33	39	
413.600	4.235	89	58	40	23	13	7	5	33	39	
413.680	4.330	30	20	17	13	9	6	4	32	40	
413.760	4.273	65	41	29	19	12	8	5	33	40	
413.840	4.266	30	21	18	13	10	7	5	33	40	
413.923	4.305	38	27	22	16	11	8	5	33	41	km 413 = 1000m
414.000	4.307	40	25	20	14	10	7	5	32	40	
414.080	4.300	38	23	18	13	9	6	4	32	40	
414.162	4.291	45	26	18	11	7	5	3	32	41	
414.240	4.285	57	36	25	15	8	5	4	31	40	
414.321	4.300	46	31	24	16	10	6	4	33	40	
414.399	4.309	44	29	22	16	10	7	5	32	41	
414.481	4.316	35	23	18	13	8	5	3	32	41	
414.559	4.296	29	19	15	11	7	4	3	32	40	
414.641	4.274	35	25	20	15	9	6	4	32	40	
414.721	4.301	39	27	22	15	10	6	4	32	40	
414.801	4.269	53	38	30	20	12	7	5	33	41	
414.882	4.268	69	45	34	23	15	9	6	33	42	
414.960	4.280	47	30	23	16	11	7	5	32	41	km 414 = 1000m
415.043	4.250	41	25	19	13	9	6	5	33	42	
415.120	4.250	61	38	26	15	9	5	4	33	42	
415.202	4.266	32	20	16	11	8	6	4	32	42	
415.282	4.215	47	31	24	17	11	7	5	33	42	
415.359	4.221	60	38	27	17	11	8	5	33	41	
415.441	4.237	72	47	33	22	14	9	6	32	42	
415.520	4.264	43	28	20	13	8	6	4	33	42	
415.602	4.278	29	19	16	12	9	6	4	33	42	
415.683	4.292	48	30	23	16	11	8	6	32	43	
415.760	4.276	37	24	18	12	8	5	4	33	43	
415.842	4.256	70	48	35	21	12	7	5	33	43	
415.921	4.290	42	24	17	10	7	5	4	32	43	km 415 = 1000m
416.000	4.305	23	16	14	11	8	6	4	33	44	
416.079	4.258	46	28	21	14	9	6	5	32	43	
416.160	4.303	35	22	17	12	9	6	5	33	43	
416.240	4.296	35	24	20	14	10	7	5	32	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
427,761	4.280	40	32	28	22	16	11	8	28	31	
427,840	4.294	24	20	19	17	14	11	9	28	31	km 427 = 879m
428,080	4.328	17	14	14	12	10	9	7	28	31	
428,160	4.288	21	18	17	15	12	10	8	28	31	
428,242	4.326	17	13	12	10	8	7	6	27	32	
428,319	4.295	19	15	13	11	9	8	7	28	31	
428,399	4.294	21	16	14	11	9	7	6	27	32	
428,479	4.278	44	33	28	21	15	10	7	27	32	
428,560	4.276	37	29	25	20	15	11	9	27	32	
428,640	4.280	33	26	23	18	14	11	9	27	32	
428,720	4.292	34	28	25	21	16	12	9	27	31	
428,801	4.296	29	22	19	15	12	9	7	28	32	
428,881	4.265	65	48	34	20	12	8	6	28	31	
428,959	4.315	25	19	16	13	9	7	5	28	32	km 428 = 988m
429,040	4.300	25	18	16	12	10	8	6	28	32	
429,119	4.290	27	22	20	15	11	9	6	28	32	
429,201	4.292	24	20	18	15	11	8	6	28	31	
429,279	4.339	23	19	18	15	12	9	7	28	32	
429,359	4.328	18	15	14	12	10	8	6	28	31	
429,439	4.321	18	15	14	12	10	8	6	28	31	
429,520	4.331	19	16	14	12	10	8	6	28	33	
429,599	4.348	19	17	16	13	11	9	7	28	32	
429,681	4.290	18	15	14	13	11	9	7	27	32	
429,758	4.328	19	15	14	13	11	9	7	28	31	
429,840	4.311	27	21	18	15	12	9	7	28	33	
429,919	4.303	22	18	16	13	11	8	6	28	33	
429,999	4.303	25	21	19	16	13	10	7	28	32	
430,080	4.307	20	17	15	13	10	8	6	28	32	km 429 = 1000m
430,158	4.317	29	22	19	15	12	9	6	28	32	
430,240	4.374	19	16	15	13	11	10	8	28	33	
430,319	4.337	21	17	16	14	12	10	8	27	31	
430,400	4.301	72	56	49	37	18	11	8	27	33	
430,482	4.353	25	20	19	16	13	11	8	28	32	
430,561	4.337	27	22	20	17	14	11	9	28	33	
430,639	4.307	26	19	18	15	12	9	7	28	32	
430,720	4.271	37	28	24	19	13	10	7	27	31	
430,799	4.358	59	49	39	23	15	10	8	27	32	
430,882	4.335	25	20	18	15	12	9	7	28	34	
430,960	4.285	31	23	20	16	12	9	7	28	33	
431,038	4.369	16	13	12	10	9	7	6	28	34	
431,119	4.323	15	12	11	10	8	7	6	28	33	km 430 = 1133m
431,040	4.330	15	13	12	10	9	7	6	28	33	
431,122	4.328	25	20	19	16	13	10	7	28	34	
431,200	4.373	18	15	14	12	10	8	6	28	33	
431,281	4.317	22	17	16	14	12	10	8	28	34	
431,363	4.296	19	15	14	11	9	7	6	28	34	
431,443	4.343	21	17	16	13	11	9	7	28	34	
431,520	4.307	18	15	13	11	9	7	5	28	34	
431,601	4.290	22	18	16	13	10	8	5	28	33	
431,680	4.292	18	14	13	10	8	6	4	28	35	inicio de ponte km 431,575
431,842	4.379	16	13	12	10	9	7	5	29	34	fim de ponte km 431,780
431,921	4.305	19	14	12	10	8	6	4	29	34	km 431 = 1000m
432,000	4.310	12	8	8	6	5	4	3	28	34	
432,082	4.287	11	8	8	6	5	4	3	29	34	
432,161	4.287	15	11	10	8	6	5	3	29	35	
432,242	4.346	12	9	8	7	6	5	4	29	35	
432,322	4.275	48	37	31	22	14	9	5	28	34	
432,400	4.292	14	11	10	9	7	6	5	29	35	
432,481	4.309	19	14	13	11	9	7	5	29	35	
432,562	4.176	47	32	27	21	15	11	7	28	33	
432,642	4.329	21	16	15	13	10	8	6	29	35	
432,720	4.336	19	15	14	12	10	8	6	29	35	
432,801	4.298	26	21	20	16	13	10	7	29	34	
432,882	4.327	19	16	15	13	12	10	8	29	34	
432,940	4.334	19	15	15	13	11	9	7	28	34	km 432 = 944m
433,039	4.280	18	14	13	12	10	8	6	29	33	
433,119	4.273	18	15	13	12	10	8	7	29	35	
433,200	4.293	20	15	14	12	10	8	6	28	34	
433,279	4.286	18	14	13	12	10	8	7	28	34	
433,362	4.296	13	10	9	7	6	5	4	28	34	
433,440	4.311	11	8	8	6	5	4	4	28	34	
433,519	4.316	19	15	14	12	11	9	7	29	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
433,600	4.338	19	16	15	13	12	10	8	28	35	
433,680	4.318	25	20	18	15	12	10	7	28	35	
433,761	4.327	23	19	17	15	12	10	7	28	35	
433,841	4.309	19	15	14	12	10	8	6	28	34	
433,918	4.304	26	21	19	16	13	11	9	28	35	
434,000	4.278	42	32	24	17	11	7	5	28	35	km 433 = 1028m
434,079	4.251	45	33	27	19	12	8	6	28	34	
434,160	4.292	47	35	29	21	15	10	8	28	34	
434,239	4.344	22	16	14	11	9	7	6	29	35	
434,320	4.275	37	28	23	17	12	9	6	28	35	
434,399	4.275	45	35	27	19	12	9	7	28	34	
434,481	4.315	31	23	19	14	10	8	6	28	35	
434,559	4.243	65	48	40	30	17	12	8	28	33	
434,640	4.321	43	33	25	16	11	9	6	28	33	
434,719	4.278	46	34	28	17	13	9	7	28	33	
434,799	4.296	28	21	18	14	10	8	6	28	34	
434,878	4.305	23	18	16	13	10	8	7	28	35	
434,960	4.291	30	24	21	18	14	11	8	29	34	km 434 = 990m
435,041	4.309	54	41	35	26	18	13	9	28	35	
435,121	4.259	50	38	33	26	18	13	10	28	34	
435,201	4.282	69	54	34	22	14	11	8	27	34	
435,281	4.307	27	22	20	17	13	10	8	28	35	
435,360	4.308	49	37	29	21	14	10	7	28	35	
435,440	4.280	42	32	27	20	13	10	7	29	35	
435,520	4.302	28	23	21	18	14	11	8	28	35	
435,601	4.275	46	37	34	26	18	13	9	29	35	
435,679	4.307	31	23	20	16	13	10	8	28	35	
435,762	4.320	25	21	19	16	13	10	8	29	35	
435,840	4.329	28	22	20	16	13	10	7	29	36	
435,920	4.311	25	21	19	16	12	10	7	29	35	
435,999	4.266	20	16	16	14	11	9	7	29	35	km 435 = 1060m
436,080	4.318	22	17	15	13	11	8	6	29	36	
436,160	4.318	19	15	14	12	10	8	6	29	36	
436,242	4.262	21	16	14	12	9	7	5	29	36	
436,320	4.318	16	13	12	10	8	7	5	29	36	
436,401	4.296	26	18	16	13	10	8	6	29	36	
436,480	4.290	42	35	31	23	18	14	10	29	35	
436,560	4.264	89	67	50	30	15	8	6	28	34	
436,642	4.314	58	43	36	25	15	9	6	29	36	
436,719	4.318	59	44	37	27	18	13	10	29	36	
436,802	4.293	67	49	39	25	16	11	8	29	37	
436,879	4.302	73	59	48	37	28	21	15	30	35	
436,960	4.356	60	44	37	24	18	14	10	29	37	
437,049	4.340	38	30	23	17	11	8	6	30	37	km 436 = 1072m
437,040	4.236	66	52	45	35	25	19	14	30	38	
437,119	4.298	58	39	20	15	9	7	6	30	37	
437,199	4.372	49	44	27	20	14	10	6	30	38	
437,281	4.320	32	23	19	14	10	7	5	30	39	
437,360	4.300	56	41	32	18	12	8	6	30	37	
437,439	4.342	39	32	28	22	15	10	7	31	37	
437,519	4.293	48	38	32	24	17	12	9	31	38	
437,600	4.243	72	56	48	36	25	14	10	31	38	
437,679	4.194	71	53	39	27	17	11	7	31	36	
437,758	4.252	72	57	47	31	21	14	10	31	37	
437,840	4.338	24	18	16	12	9	7	6	31	38	
437,920	4.214	38	26	22	17	13	9	7	32	38	km 437 = 1000m
438,000	4.305	32	23	20	15	11	8	6	32	42	
438,079	4.320	38	28	24	19	14	9	8	33	42	
438,159	4.348	31	25	22	18	13	10	7	33	41	
438,238	4.318	31	24	21	17	14	10	8	33	45	
438,318	4.291	81	56	43	29	17	11	8	33	45	
438,398	4.275	48	36	30	23	16	11	8	32	44	
438,477	4.309	33	26	23	19	15	12	9	33	40	
438,562	4.334	24	18	16	13	11	8	6	32	43	
438,640	4.315	28	22	18	14	11	7	5	32	44	
438,721	4.317	20	14	13	10	8	6	5	32	44	
438,799	4.354	18	14	12	11	9	7	6	32	42	
438,880	4.347	23	17	16	13	10	8	5	32	44	
438,959	4.342	20	13	10	8	6	4	3	32	45	km 438 = 1000m
439,040	4.325	18	13	11	9	7	6	4	32	42	
439,119	4.335	17	11	9	8	6	5	3	33	46	
439,199	4.329	20	13	11	9	7	6	5	33	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
439,279	4.244	47	33	28	21	15	11	8	33	46	
439,358	4.320	37	28	24	19	14	10	7	32	45	
439,439	4.325	30	22	19	16	12	10	8	32	47	
439,519	4.327	28	21	19	16	13	10	7	32	47	
439,599	4.291	57	43	36	26	17	11	8	33	47	
439,680	4.329	32	23	20	16	13	10	8	33	48	
439,760	4.327	36	25	22	17	13	10	7	33	48	
439,840	4.300	47	37	33	26	19	14	9	32	48	
439,919	4.293	32	23	19	15	12	9	7	32	48	km 439 = 936m
440,000	4.346	25	19	17	14	11	9	7	32	48	
440,079	4.300	19	13	11	9	8	6	5	32	49	
440,159	4.238	85	45	33	20	13	9	6	32	47	
440,239	4.304	42	29	22	13	8	6	5	32	48	
440,318	4.311	18	12	11	8	7	6	5	32	50	
440,399	4.287	50	37	30	21	14	9	7	32	48	
440,481	4.245	59	42	32	21	12	8	6	32	49	
440,558	4.266	52	36	24	14	9	7	6	32	46	
440,638	4.241	40	28	21	14	9	6	5	32	46	
440,719	4.347	29	21	18	14	11	8	5	32	45	
440,799	4.300	54	39	27	18	12	8	6	31	44	
440,879	4.291	19	12	10	8	6	5	4	32	49	
440,958	4.294	73	41	28	12	8	4	3	32	45	km 440 = 964m
441,040	4.345	63	44	27	15	7	4	3	32	46	
441,119	4.232	60	37	27	14	7	4	3	33	47	
441,199	4.293	67	44	29	13	5	3	2	33	48	
441,281	4.286	30	19	15	10	6	4	4	32	50	
441,360	4.313	20	14	11	9	7	5	4	32	49	
441,440	4.218	93	66	33	16	7	5	4	32	44	
441,519	4.265	79	54	34	17	9	7	5	32	44	
441,599	4.302	44	32	25	17	10	7	5	32	48	
441,679	4.272	61	42	26	13	7	6	5	33	44	
441,760	4.325	18	12	10	8	6	5	4	33	48	
441,840	4.284	21	14	12	9	7	6	5	33	47	
441,921	4.294	26	18	15	11	8	7	5	33	48	km 441 = 1031m
442,001	4.286	22	14	12	9	7	5	4	32	48	
442,079	4.263	22	15	12	9	7	5	4	33	48	
442,161	4.296	24	16	14	10	8	6	4	32	49	
442,241	4.304	28	20	16	12	8	6	5	32	49	
442,318	4.302	23	17	15	12	9	7	5	32	49	
442,399	4.307	43	31	27	20	15	11	8	32	48	
442,479	4.294	33	24	20	16	12	9	7	32	49	
442,560	4.315	35	26	22	17	13	10	7	32	48	
442,640	4.289	32	23	19	14	10	7	6	32	48	
442,719	4.250	35	25	21	15	11	9	7	32	48	
442,801	4.307	25	18	15	12	9	7	5	32	49	
442,879	4.286	28	21	18	14	10	8	6	33	47	
445,679	4.264	47	35	30	23	16	11	8	32	45	
445,758	4.296	36	27	24	19	14	10	7	32	46	
445,840	4.358	27	20	19	16	13	10	7	33	46	
445,919	4.253	92	74	49	30	17	12	9	33	43	
446,000	4.286	54	39	32	24	16	11	8	32	44	km 445 = 1016metros
446,079	4.236	83	64	51	37	21	13	9	32	43	
446,157	4.318	35	26	23	18	14	10	8	32	45	
446,239	4.296	31	23	21	17	13	9	7	32	45	
446,321	4.323	27	21	19	16	13	10	8	32	45	
446,399	4.307	26	20	18	15	12	10	7	31	44	
446,482	4.309	59	44	36	25	17	12	8	32	46	
446,558	4.309	30	23	21	18	14	11	8	31	40	
446,640	4.329	28	20	17	13	10	8	6	31	46	
446,719	4.309	60	46	36	26	22	11	8	31	44	
446,799	4.333	24	16	13	9	7	6	5	31	45	
446,880	4.356	22	18	16	13	10	9	7	31	44	km 446 = 911m
447,040	4.315	56	40	33	24	22	11	8	31	35	
447,119	4.266	26	19	17	14	11	9	7	32	36	
447,199	4.340	21	15	13	11	10	8	6	31	41	
447,282	4.307	19	15	14	12	10	8	6	31	43	
447,362	4.329	20	15	13	11	10	8	6	31	40	
447,441	4.320	21	16	15	13	11	9	7	31	41	
447,517	4.318	21	15	14	12	10	8	6	32	39	
447,599	4.298	16	13	12	10	9	8	6	31	42	
447,679	4.349	16	12	11	9	7	6	5	31	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
447,759	4.315	18	13	12	10	8	7	5	31	41	
447,842	4.331	21	15	14	12	10	8	6	32	39	
447,918	4.298	19	13	12		8	7	5	31	41	km 447 = 986m
447,999	4.318	21	16	15	12	10	8	6	31	40	
448,079	4.315	16	11	10	9	7	5	4	32	39	
448,158	4.306	17	13	12	11	9	8	6	32	41	
448,239	4.321	17	13	12	10	9	7	6	32	37	
448,319	4.336	15	12	11	9	8	7	5	31	38	
448,399	4.300	17	12	10	9	7	6	5	31	37	
448,479	4.317	26	18	15	10	7	5	3	31	41	
448,558	4.275	48	44	30	20	12	7	4	31	41	
448,640	4.233	68	54	38	25	12	7	4	31	40	
448,719	4.241	52	35	26	17	10	6	4	32	41	
448,799	4.296	13	10	9	8	6	5	4	31	37	
448,878	4.293	17	13	12	10	9	7	5	31	35	km 448 = 914m
449,040	4.325	18	14	13	11	9	7	6	32	42	
449,117	4.325	18	14	13	11	10	8	6	31	43	
449,199	4.320	21	15	14	12	9	8	6	31	38	
449,282	4.345	17	12	11	10	8	7	6	31	41	
449,360	4.291	25	17	15	12	10	8	6	31	39	
449,440	4.278	19	15	14	12	10	8	7	30	39	
449,519	4.350	19	14	13	11	9	8	6	30	37	
449,597	4.307	18	13	12	10	9	7	6	30	38	
449,680	4.336	20	15	14	12	10	8	6	30	38	
449,758	4.302	28	22	20	16	13	10	7	30	38	
449,840	4.218	73	55	49	35	26	18	12	30	39	
449,919	4.300	24	19	18	15	13	10	8	30	42	
449,999	4.286	22	17	15	11	9	6	4	30	43	
450,081	4.304	24	18	16	13	9	6	4	30	43	km 449 = 1120m
450,081	4.329	60	48	42	33	24	16	11	30	38	
450,158	4.320	32	25	21	16	11	7	4	30	40	
450,240	4.298	16	12	12	10	9	7	6	29	43	
450,322	4.306	44	35	30	24	18	13	8	30	43	
450,401	4.348	21	15	14	11	9	7	5	29	40	
450,478	4.338	28	20	18	14	11	9	6	30	41	
450,562	4.381	16	12	12	10	9	7	6	30	43	
450,638	4.338	19	15	14	12	10	8	6	29	44	
450,719	4.336	19	14	13	11	9	7	5	29	37	
450,797	4.344	15	11	11	10	8	7	6	30	34	
450,879	4.334	14	11	11	10	8	7	6	30	34	
450,958	4.350	19	15	15	13	11	9	7	30	36	km 450 = 995m
451,038	4.327	20	16	15	13	11	9	7	29	36	
451,119	4.348	15	12	12	10	8	7	5	30	36	
451,200	4.342	20	16	14	12	10	8	6	29	41	
451,279	4.343	15	12	11	10	8	7	5	29	37	
451,360	4.317	17	11	8	6	5	4	3	30	40	
451,441	4.267	32	24	19	13	8	5	4	29	37	
451,521	4.293	50	35	27	17	9	5	4	30	37	
451,601	4.313	19	12	10	7	4	4	4	29	41	
451,682	4.300	25	16	14	11	8	6	4	30	41	
451,759	4.334	17	13	12	10	8	6	5	30	39	
451,840	4.288	28	21	18	14	11	7	5	29	41	
451,920	4.372	21	15	14	11	9	7	5	30	41	km 451 = 945m
452,000	3.461	15	12	10	9	7	5	4	28	29	
452,080	3.490	13	11	10	9	8	6	4	28	29	
452,160	3.490	15	13	12	10	9	7	5	28	30	
452,237	3.468	20	17	16	14	11	8	7	28	30	
452,320	3.425	26	19	15	12	9	6	5	28	29	
452,400	3.461	27	22	19	15	11	8	6	28	30	
452,480	3.446	18	15	14	12	10	7	6	28	29	
452,561	3.425	13	10	10	9	8	6	5	28	29	
452,642	3.446	27	20	18	15	12	8	6	28	29	
452,721	3.389	40	31	27	21	16	11	8	28	29	
452,802	3.468	22	17	15	13	10	7	6	28	29	
452,882	3.454	23	18	16	13	10	7	6	28	29	
452,974	3.446	32	25	21	17	12	8	6	28	29	km 452 = 982m
453,040	3.439	18	13	12	11	9	6	5	28	30	
453,120	3.381	33	21	18	16	12	8	7	28	29	
453,200	3.461	22	19	17	15	12	8	7	28	30	
453,282	3.461	16	12	11	10	9	6	5	28	30	
453,360	3.454	18	12	11	10	8	5	4	28	30	
453,440	3.446	24	19	17	14	11	8	7	28	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Simples					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
453,521	3432	21	14	12	10	8	5	4	28	30	
453,602	3410	35	26	22	18	13	8	5	28	30	
453,683	3432	26	20	17	14	10	6	4	28	30	
453,760	3468	10	8	7	6	5	4	3	28	31	
453,841	3439	18	16	15	13	12	9	7	28	31	
453,922	3446	20	15	14	12	10	7	6	28	31	km 453 = 1000m
454,000	3396	49	39	32	25	18	11	7	28	31	
454,081	3367	40	27	23	19	14	8	6	28	31	
454,161	3353	58	41	32	23	14	8	5	28	31	
454,242	3360	58	45	36	27	17	9	6	28	31	
454,322	3367	72	58	46	35	22	13	9	28	32	
454,402	3331	46	34	29	23	16	10	7	28	32	
454,482	3353	55	35	28	21	14	8	6	28	32	
454,562	3374	40	31	26	20	14	9	6	28	32	
454,642	3360	53	37	30	23	16	10	7	28	32	
454,722	3374	59	46	36	26	15	8	6	28	32	
454,802	3374	63	46	35	26	18	11	7	28	32	
454,881	3331	90	72	56	41	27	16	11	28	32	
454,960	3410	29	21	18	16	12	9	7	28	32	km 454 = 1000m
455,039	3410	38	28	23	16	11	7	6	28	33	
455,121	3425	52	41	30	21	15	10	7	28	33	
455,202	3410	27	22	21	19	16	11	9	28	32	
455,280	3425	22	16	15	12	11	8	7	32	33	
455,361	3446	16	10	9	7	6	4	3	32	33	
455,443	3425	23	18	16	15	12	9	8	32	33	
455,522	3418	27	21	18	16	13	9	7	32	32	
455,603	3439	21	17	15	13	11	8	7	32	33	
455,680	3439	13	10	8	6	5	4	3	32	33	
455,761	3367	40	30	25	19	13	7	4	32	33	
455,840	3353	37	29	26	22	17	11	9	32	33	
455,917	3317	74	62	55	45	34	22	15	32	33	km 455 = 1049m
456,000	3324	73	64	53	42	25	14	10	32	33	
456,080	3281	88	74	50	34	20	12	11	32	33	
456,160	3381	49	38	31	24	17	11	9	32	33	
456,241	3338	59	45	38	29	20	13	10	32	33	
456,321	3367	51	38	31	24	15	9	6	32	33	
456,400	3360	55	36	27	20	13	8	6	32	33	
456,482	3367	60	47	33	24	15	10	8	32	33	
456,560	3389	49	40	32	24	16	9	7	32	33	
456,642	3353	54	46	42	33	22	12	9	32	34	
456,722	3317	69	37	28	22	14	7	5	32	33	
456,800	3295	46	49	37	29	17	9	6	32	33	
456,878	3381	43	34	24	18	13	9	7	32	33	
456,957	3288	87	67	55	41	27	15	10	32	33	km 456 = 1044m
457,000	3309	130	84	65	51	26	14	11	33	35	
457,040	3302	105	80	68	53	27	14	9	33	35	
457,119	3446	27	21	18	16	12	8	6	33	35	
457,200	3432	26	22	17	15	10	6	5	33	35	
457,280	3418	63	46	35	25	15	7	4	33	35	
457,361	3396	46	33	25	19	13	8	6	33	36	
457,442	3302	75	58	45	35	24	14	10	33	35	
457,521	3425	20	15	12	10	7	5	4	33	35	
457,601	3338	60	46	38	29	17	9	5	33	36	
457,682	3302	53	46	36	26	14	7	4	33	35	
457,762	3410	42	29	21	14	6	2	1	33	36	
457,840	3425	37	30	25	15	10	4	3	33	36	
457,920	3432	24	19	16	14	11	7	6	33	36	km 457 = 1041m
458,000	3389	35	23	18	14	10	6	5	33	36	
458,080	3425	36	26	22	18	13	8	7	33	36	
458,160	3418	25	17	15	12	10	7	6	33	36	
458,241	3367	32	22	16	15	11	5	5	33	36	
458,321	3410	23	17	14	12	9	6	5	33	36	
458,400	3345	53	40	33	27	19	11	7	33	36	
458,481	3259	116	88	76	55	26	19	12	33	36	
458,560	3381	29	22	17	14	10	6	6	33	36	
458,640	3381	37	28	22	18	13	9	7	33	37	
458,720	3425	18	11	10	8	7	5	4	33	36	
458,802	3374	20	18	16	14	12	8	7	33	37	km 458 = 816m
459,040	3302	109	78	50	29	16	8	6	33	36	
459,120	3374	64	45	32	23	15	8	7	33	37	
459,200	3360	75	52	40	30	17	10	8	33	36	
459,280	3331	86	62	47	32	17	8	5	33	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 0,0 ao km 470,4				DATA: fev/2007
PISTA:	Crescente					FAIXA:	Simples				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
459,362	3360	49	38	31	25	17	10	7	33	36	
459,440	3324	35	23	21	17	10	7	5	33	36	
459,520	3381	18	15	13	11	9	7	6	33	36	
459,600	3338	66	49	40	30	21	12	9	33	36	
459,680	3208	109	82	59	44	25	14	9	33	37	
459,760	3367	48	33	26	20	14	9	8	33	37	
459,841	3353	61	43	33	24	14	7	5	33	36	
459,921	3360	48	39	32	25	17	11	8	33	37	km 459 = 1056m
460,000	3381	23	18	16	14	11	7	6	33	37	
460,080	3381	58	46	25	15	10	6	5	33	37	
460,161	3194	130	73	49	31	17	8	5	33	36	
460,240	3381	50	35	26	17	10	6	4	33	36	
460,321	3360	44	30	24	19	12	7	5	33	36	
460,403	3324	40	28	22	17	11	7	6	33	36	
460,480	3389	22	15	12	9	7	5	4	33	36	
460,559	3389	26	20	16	13	9	5	4	33	37	
460,640	3418	15	8	7	7	6	4	4	33	36	
460,722	3389	45	39	31	24	16	9	7	33	37	
460,802	3425	32	22	17	13	9	6	4	33	37	
460,880	3331	70	64	54	41	23	13	9	33	37	
460,960	3381	41	27	23	19	15	10	8	33	37	
461,042	3324	70	47	38	31	23	15	11	33	37	km 460 = 1103m
461,040	3353	54	37	30	24	18	11	9	33	37	
461,121	3353	43	33	26	20	15	9	7	33	37	
461,202	3367	32	24	18	14	9	6	5	33	37	
461,280	3374	46	36	28	23	16	9	7	33	37	
461,361	3360	34	31	23	20	13	8	7	33	37	
461,439	3338	57	40	34	27	18	11	7	33	37	
461,522	3360	50	29	21	14	9	5	4	33	37	
461,600	3324	89	60	42	28	15	8	6	33	37	
461,680	3338	82	58	44	30	18	10	7	33	37	
461,760	3309	57	45	38	29	20	12	9	33	37	km 461 = 858m
462,000	3324	78	52	43	32	19	11	8	33	38	
462,082	3374	33	27	23	18	14	10	7	33	37	
462,161	3345	42	36	30	24	17	10	7	33	38	
462,240	3367	28	23	22	20	16	12	9	33	37	
462,320	3381	48	39	34	28	21	14	10	33	38	
462,400	3360	45	29	25	21	16	10	8	33	38	
462,481	3302	89	68	56	44	29	18	13	33	38	
462,563	3389	28	25	23	20	16	10	8	33	37	
462,640	3367	31	22	18	15	11	7	5	33	37	
462,718	3266	90	38	31	29	22	13	11	33	37	
462,798	3403	17	12	11	9	8	6	5	33	37	
462,879	3360	24	18	16	14	11	8	6	33	37	
462,958	3360	27	17	15	12	9	5	4	33	37	
463,039	3374	24	18	16	14	11	7	5	33	37	km 462 = 1105m
463,040	3396	19	14	12	10	8	5	4	33	37	
463,120	3396	26	17	14	12	9	6	4	33	37	
463,200	3381	33	25	21	17	13	8	6	33	37	
463,282	3410	22	15	13	10	7	5	3	33	36	
463,361	3410	17	12	10	9	7	5	4	33	36	
463,442	3410	23	15	12	10	7	4	4	33	36	
463,521	3381	35	28	23	18	12	7	5	33	36	
463,603	3208	128	95	65	48	26	12	7	33	36	
463,683	3345	60	37	27	18	11	6	5	33	36	
463,763	3403	29	22	19	15	11	7	6	33	36	
463,840	3338	58	46	35	23	12	5	3	33	36	
463,923	3374	44	36	29	24	15	9	7	33	36	km 463 = 1000m
464,000	3345	59	43	34	27	18	10	7	33	36	
464,082	3331	73	55	43	30	17	8	5	33	36	
464,161	3331	25	22	19	16	12	8	7	33	36	
464,243	3259	101	87	66	53	33	18	11	33	36	
464,320	3144	181	156	133	112	73	38	19	33	36	
464,400	3410	17	11	9	7	6	4	3	33	36	
464,482	3396	30	22	18	14	11	7	6	33	36	
464,562	3381	44	34	28	21	15	9	6	33	36	
464,643	3389	22	19	16	12	9	6	5	33	36	
464,720	3396	29	21	17	13	10	6	5	33	36	
464,800	3331	80	64	45	30	15	7	5	33	36	
464,882	3389	34	24	19	14	9	5	4	33	37	km 464 = 934m
465,043	3338	31	18	11	7	4	2	1	33	37	
465,120	3403	19	14	10	8	5	3	2	33	36	

Pesquisas e Estudos de Viabilidade de PPP – Sistema Rodoviário Federal Minas Gerais
PROJETO BR 040

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO: km 442,9 ao km 445,6 / km 470,4 ao km 597,0								DATA: fev/2007	
PISTA:	Dupla / Crescente	FAIXA: 2									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
442,958	4.246	31	23	19	15	12	9	7	33	47	Trevo de Paraopeba km 442,960
443,038	4.282	47	33	27	18	12	8	6	32	48	km 442 = 1000m
443,118	4.300	45	33	28	21	14	10	7	32	49	
443,199	4.305	32	23	20	15	11	8	6	32	47	
443,279	4.257	61	45	37	27	18	12	8	32	47	
443,360	4.316	49	36	31	23	16	11	8	33	48	
443,439	4.267	47	35	29	22	15	11	8	33	46	
443,521	4.314	43	32	27	20	14	10	7	33	47	
443,599	4.241	26	18	16	13	10	8	6	33	47	
443,679	4.278	54	39	31	21	14	10	7	33	49	
443,757	4.284	48	35	29	21	14	10	7	33	48	
443,838	4.303	37	27	23	17	12	8	6	32	48	
443,919	4.278	62	46	38	27	18	11	7	32	49	
443,997	4.262	50	38	32	23	15	10	6	33	50	
444,080	4.255	43	32	27	19	12	8	5	33	48	km 443 = 1129ms
444,080	4.309	35	26	22	16	11	7	5	33	48	
444,158	4.257	69	52	44	32	20	12	7	32	49	
444,240	4.257	77	59	50	38	26	16	10	32	49	
444,318	4.221	84	66	57	43	29	17	9	32	47	
444,399	4.316	52	35	26	11	5	1	0	32	46	
444,479	4.284	47	34	28	20	12	6	3	32	47	
444,558	4.296	42	27	20	11	5	2	2	32	48	
444,638	4.314	41	29	24	17	12	8	6	32	49	
444,719	4.259	28	20	17	13	10	7	5	32	48	
444,799	4.298	41	29	24	17	12	8	6	33	48	
444,881	4.311	23	17	15	12	9	6	4	33	47	
444,961	4.325	29	21	19	15	11	8	5	32	45	km 444 = 1027m
445,039	4.278	32	25	23	20	16	13	10	33	44	início de ponte km 445,100
445,201	4.280	60	46	38	22	13	8	6	32	46	fim de ponte km 445,120
445,281	4.273	27	17	13	8	6	4	3	32	46	
445,360	4.275	49	34	27	18	11	7	6	32	47	
445,442	4.323	45	32	24	15	9	6	4	33	46	
445,519	4.267	59	41	32	21	13	10	7	33	43	
445,597	4.327	45	34	29	21	15	10	7	32	37	
470,480	3.829	22	16	12	9	5	3	2	22	24	
470,562	3.785	43	28	20	13	8	6	4	22	25	
470,640	3.807	36	26	19	13	9	6	5	22	25	
470,720	3.792	32	22	16	11	6	4	4	22	25	
470,802	3.807	42	30	23	16	9	5	4	22	25	
470,879	3.792	33	22	16	11	7	5	4	22	25	
470,959	3.792	39	27	19	13	7	4	3	22	25	km 470 =1011m
471,040	3.821	34	21	14	9	4	2	2	22	25	
471,122	3.821	33	21	14	9	5	3	2	22	25	
471,200	3.800	33	23	17	11	6	3	2	22	25	
471,281	3.749	39	27	20	14	8	5	4	22	25	
471,362	3.771	36	26	20	14	9	6	4	22	25	
471,443	3.735	47	34	26	19	11	7	5	22	25	
471,522	3.778	32	22	16	12	7	5	4	22	25	
471,600	3.792	30	21	15	10	5	3	2	22	25	
471,681	3.814	31	20	14	9	5	3	2	22	25	
471,760	3.800	26	17	12	8	5	3	2	22	25	
471,841	3.756	51	33	24	15	8	5	4	22	25	
471,921	3.785	31	22	17	12	7	4	3	22	25	km 471 =964m
472,000	3.994	35	25	19	13	8	5	3	22	24	
472,081	3.937	43	29	21	13	7	5	4	22	24	
472,161	3.821	58	48	29	18	10	6	4	22	24	
472,242	3.879	66	42	28	16	8	6	4	22	25	início de ponte km 472,340
472,400	4.066	13	10	8	6	4	3	2	22	25	fim de ponte km 472,390
472,479	4.038	22	16	13	10	6	4	3	22	25	
472,561	4.023	30	21	16	12	7	5	4	22	25	
472,640	4.002	34	27	23	18	11	7	5	22	25	
472,720	4.023	22	16	13	10	6	3	2	22	25	
472,800	3.994	37	29	25	19	13	7	4	22	25	
472,881	3.994	26	20	16	12	8	4	3	22	25	
472,963	3.937	45	35	29	23	15	8	4	22	25	
473,041	3.994	25	20	17	13	9	6	4	22	25	
473,126	3.908	65	36	21	11	8	5	4	22	26	km 472 = 1144m
473,040	3.958	40	32	26	19	13	8	5	22	25	
473,120	3.800	55	52	36	24	14	5	6	22	25	início faixa adicional km 473,180

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
475,519	3.764	30	22	18	13	9	5	4	22	26	fim faixa adicional km 475,500
475,600	3.749	15	12	11	7	6	4	3	22	27	
475,682	3.742	29	22	18	13	8	5	4	22	26	
475,760	3.728	49	37	30	22	15	9	6	22	27	
475,842	3.771	15	11	9	7	5	3	2	22	27	
475,923	3.778	17	11	8	6	4	3	2	22	27	km 475 = 1049m
476,000	3.764	16	12	10	8	6	4	4	22	27	
476,080	3.720	18	14	11	9	7	5	4	22	27	
476,160	3.720	34	24	19	15	10	6	5	22	27	
476,241	3.699	48	39	33	25	17	10	6	22	27	
476,320	3.764	15	13	10	7	5	3	3	22	27	
476,401	3.742	28	21	17	13	9	6	4	22	27	
476,480	3.764	17	12	9	6	4	2	1	22	27	
476,560	3.728	18	12	9	6	4	3	2	22	27	
476,640	3.771	11	9	7	6	4	3	2	22	27	
476,719	3.749	24	17	13	8	5	3	2	22	27	
476,799	3.764	13	9	7	5	3	2	2	22	27	
476,879	3.771	19	14	10	7	4	2	1	22	27	
476,962	3.699	31	19	14	9	6	4	3	22	27	km 476 = 987m
477,042	3.749	17	12	9	6	4	3	2	22	27	
477,120	3.728	28	20	15	11	6	3	2	22	27	
477,200	3.663	54	39	26	14	7	4	2	22	27	
477,281	3.735	36	23	17	11	6	3	2	22	27	
477,362	3.699	44	27	19	12	6	3	2	22	27	
477,442	3.713	33	22	17	11	7	4	2	22	27	
477,523	3.742	31	22	17	12	8	5	4	22	27	
477,600	3.749	14	11	9	8	6	4	3	22	28	
477,682	3.735	24	18	15	12	8	5	4	22	27	
477,761	3.713	40	32	27	22	9	6	4	22	27	
477,843	3.749	16	12	10	8	6	4	3	22	28	
477,921	3.677	38	27	22	16	11	7	5	22	28	km 477 = 1020m
478,000	3.655	57	41	32	22	15	9	7	22	28	
478,077	3.692	55	44	35	27	18	10	7	22	28	
478,160	3.663	66	58	36	24	16	12	9	22	28	
478,240	3.728	18	13	12	10	9	6	6	27	28	
478,319	3.699	57	56	33	19	13	9	8	27	28	
478,400	3.677	44	33	26	18	11	6	4	27	28	
478,481	3.728	24	18	15	11	7	5	3	27	28	
478,561	3.756	29	22	17	12	8	5	4	27	28	
478,642	3.735	30	21	15	10	5	2	1	27	28	
478,722	3.706	34	24	18	12	7	4	3	27	28	inicio faixa adicional km 478,750
479,921	3.692	31	19	15	11	8	5	4	27	29	fim faixa adicional km 479,900
480,000	3.728	28	22	18	14	10	6	4	27	29	km 479 = 1020m
480,081	3.663	51	38	30	23	15	9	7	27	29	
480,175	3.713	28	22	17	13	8	5	3	27	29	
480,241	3.692	44	34	28	21	14	8	6	27	29	
480,322	3.728	24	18	15	11	8	5	4	27	29	
480,400	3.706	24	18	14	11	8	5	4	27	29	
480,480	3.699	31	23	18	13	8	5	3	27	29	
480,561	3.699	29	23	19	15	11	7	5	27	29	
480,641	3.706	30	21	16	11	6	3	3	27	29	
480,722	3.713	18	13	11	9	7	5	4	27	29	
480,802	3.692	27	19	15	12	9	6	5	27	29	
480,882	3.699	34	22	15	10	6	3	3	27	29	
480,960	3.699	42	28	21	14	7	4	3	27	29	km 480 = 1000m
481,040	3.692	29	20	15	11	6	4	3	27	29	
481,120	3.692	19	13	10	7	5	3	2	27	29	
481,201	3.670	38	28	22	16	9	5	3	27	29	
481,280	3.699	27	20	16	11	6	3	2	27	29	
481,361	3.699	31	24	19	14	8	4	3	27	29	
481,442	3.699	24	17	13	10	6	4	2	27	29	
481,522	3.706	28	20	15	10	6	3	2	27	30	
481,602	3.663	19	13	10	7	4	3	2	27	29	
481,682	3.692	21	15	12	9	5	3	2	27	29	
481,760	3.663	22	17	13	10	7	4	3	27	29	
481,840	3.706	27	20	15	11	7	4	3	27	30	km 481 = 917m
482,000	3.655	17	14	12	9	7	5	4	27	29	
482,081	3.684	33	22	15	10	5	3	2	27	29	
482,162	3.663	46	27	18	12	6	3	2	27	29	
482,242	3.591	77	58	40	30	11	3	4	27	29	
482,320	3.634	56	37	27	17	8	4	2	27	29	inicio faixa adicional km 482,400
485,362	3.648	51	33	21	11	5	3	3	27	30	fim faixa adicional km 485,350

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0					DATA: fev/2007
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
485,442	3,699	26	19	15	11	7	4	3	27	30	
485,522	3,677	31	23	17	13	8	4	3	27	30	
485,600	3,684	21	15	12	9	5	3	2	29	30	
485,680	3,677	28	18	14	10	6	4	3	29	30	
485,760	3,699	24	19	15	11	6	4	2	29	30	
485,841	3,663	37	25	18	13	7	4	3	29	30	km 485 = 928m
486,000	3,663	33	21	17	13	9	6	4	29	30	
486,080	3,591	51	38	28	19	11	6	4	29	31	
486,162	3,684	35	25	18	13	8	5	4	29	31	
486,242	3,684	28	19	15	10	6	3	2	29	31	
486,320	3,670	39	28	21	15	8	5	4	29	31	
486,401	3,677	45	30	21	13	6	2	1	29	31	
486,480	3,677	28	20	15	11	7	4	2	29	30	
486,561	3,677	33	23	18	13	8	4	3	29	31	
486,640	3,627	49	32	24	17	10	5	4	29	31	
486,717	3,641	45	37	31	22	15	10	7	29	31	
486,798	3,670	33	24	19	13	8	4	3	29	31	
486,877	3,641	41	31	26	20	14	7	5	29	31	
486,959	3,619	67	48	35	25	16	10	7	29	31	km 486 = 1000m
487,039	3,699	27	20	16	11	7	4	3	29	31	
487,119	3,648	36	26	20	15	8	4	3	29	31	
487,200	3,591	37	31	22	16	9	6	4	29	31	
487,279	3,684	25	17	13	10	6	4	3	29	31	
487,359	3,663	38	28	21	15	10	6	4	29	31	
487,440	3,641	38	32	21	14	6	5	4	29	31	
487,521	3,655	33	24	18	14	9	5	4	29	31	
487,601	3,648	17	16	15	13	10	7	5	29	31	
487,682	3,677	34	26	21	15	10	5	4	29	31	
487,763	3,634	44	35	28	23	16	10	8	29	31	
487,843	3,627	60	35	26	19	11	7	6	29	31	
487,920	3,655	26	18	14	11	7	4	3	29	31	km 487 = 1063m
488,000	3,634	45	36	27	18	11	7	6	29	31	
488,080	3,605	59	49	29	23	12	8	6	29	31	
488,161	3,648	48	33	25	18	11	5	4	29	31	
488,242	3,692	28	19	15	11	7	5	4	29	32	
488,322	3,591	44	39	24	17	11	6	6	29	31	
488,400	3,663	34	24	19	15	11	7	6	29	32	
488,481	3,663	35	29	23	18	12	8	6	29	32	
488,560	3,627	47	27	22	17	11	7	5	29	32	
488,642	3,655	29	24	20	15	10	7	5	29	32	
488,722	3,627	32	23	17	12	7	4	2	29	32	
488,803	3,677	38	24	17	12	6	3	2	29	32	
488,880	3,627	26	15	11	7	4	2	2	29	32	
488,961	3,612	24	16	13	9	6	3	3	29	32	km 488 = 1000m
489,042	3,641	54	37	28	19	11	6	4	29	32	
489,123	3,605	73	60	40	24	12	7	6	29	32	
489,200	3,547	66	45	33	23	14	8	7	29	32	
489,281	3,562	111	27	19	12	7	4	4	29	32	
489,363	3,619	83	65	42	26	11	8	5	29	32	
489,440	3,699	16	11	8	5	4	2	2	29	32	
489,519	3,692	16	11	8	7	5	3	3	29	32	
489,602	3,670	28	18	12	7	4	3	2	29	32	
489,681	3,641	37	27	21	16	11	7	6	29	32	km 489 = 745m
490,000	3,655	19	14	11	9	6	3	2	29	32	
490,080	3,641	62	38	25	15	8	5	4	29	32	
490,160	3,627	68	40	29	20	12	7	5	29	32	
490,240	3,634	61	43	29	18	9	6	4	29	32	
490,319	3,655	29	20	13	12	7	5	3	29	32	
490,400	3,648	61	36	18	12	7	4	4	29	31	
490,479	3,648	43	33	26	18	8	5	4	29	32	
490,563	3,692	14	10	8	6	4	2	1	29	32	
490,641	3,655	53	38	28	19	10	5	3	29	32	
490,703	3,648	35	26	21	17	12	7	6	29	31	
490,802	3,670	28	17	12	8	4	2	1	29	32	
490,883	3,627	68	51	26	17	7	6	5	29	32	
490,963	3,569	86	51	34	22	14	9	8	29	32	km 490 = 1000m
491,046	3,641	48	34	25	16	9	4	3	29	32	
491,120	3,454	130	63	53	46	28	19	13	29	32	
491,201	3,454	68	31	22	18	8	4	2	29	32	
491,282	3,576	53	37	30	22	17	11	8	29	32	
491,360	3,605	45	33	23	13	6	4	3	29	32	
491,442	3,670	31	20	16	12	8	5	4	29	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
491,521	3.576	72	48	33	22	13	8	6	29	32	
491,601	3.619	42	34	28	23	18	12	10	29	31	
491,681	3.591	48	36	26	17	10	5	4	29	31	
491,760	3.612	56	41	34	27	19	12	9	29	31	
491,838	3.591	70	36	25	0	10	6	4	29	32	
491,917	3.634	34	20	13	0	6	4	4	29	31	
492,000	3.663	15	9	7	5	4	3	3	29	31	
492,080	3.663	15	8	6	4	3	2	2	29	32	
492,160	3.612	47	23	14	9	5	3	3	29	32	
492,240	3.627	42	26	18	10	5	3	2	29	32	
492,320	3.648	31	20	15	11	7	5	4	29	32	km 491 = 1348m
492,000	3.619	44	28	20	13	8	5	3	29	31	
492,079	3.612	50	32	23	15	9	6	5	29	32	
492,160	3.648	35	21	15	10	6	4	3	29	32	
492,242	3.648	22	12	8	6	5	4	4	29	32	
492,321	3.634	33	20	13	9	7	6	5	29	32	
492,402	3.641	32	20	15	11	7	5	4	29	32	
492,482	3.648	21	14	10	8	6	4	4	29	32	
492,563	3.655	27	16	11	8	6	4	3	29	32	
492,643	3.670	20	10	7	5	4	3	2	29	32	
492,723	3.612	49	36	28	21	14	9	8	29	32	
492,800	3.605	58	36	24	15	9	6	4	29	32	
492,882	3.591	52	35	27	19	12	8	6	29	33	
492,962	3.641	28	18	13	10	6	4	3	29	33	
493,041	3.612	47	28	19	11	8	5	5	29	32	
493,123	3.655	27	17	13	7	6	4	4	29	33	km 492 = 1165m
493,040	3.648	43	26	18	11	6	4	4	29	33	
493,121	3.605	55	31	22	13	8	5	4	29	33	
493,201	3.569	45	34	19	13	9	6	5	29	33	
493,281	3.619	48	35	27	21	15	9	7	29	32	
493,362	3.634	33	22	16	0	9	6	5	29	32	
493,442	3.641	27	18	14	11	8	5	4	29	33	
493,520	3.663	18	11	8	7	5	4	3	29	32	
493,600	3.684	18	12	9	7	5	3	3	29	32	
493,680	3.684	19	12	9	7	5	3	2	29	32	
493,760	3.663	21	12	9	6	4	3	2	29	32	km 493 = 826m
494,000	3.670	26	18	13	10	6	4	3	29	32	
494,081	3.807	15	11	10	8	6	5	4	22	24	
494,163	3.800	20	15	13	10	7	5	4	22	24	
494,242	3.792	15	11	9	7	5	4	3	22	24	
494,321	3.807	17	12	10	8	6	5	4	22	24	
494,402	3.800	18	14	12	10	8	6	5	22	24	
494,482	3.807	28	25	21	17	12	7	5	22	24	
494,562	3.778	43	36	29	21	13	8	5	22	24	
494,649	3.792	22	17	15	12	9	6	4	22	24	
494,718	3.807	14	10	8	7	6	4	4	22	24	
494,799	3.800	12	8	6	5	3	3	2	22	24	
494,879	3.800	16	12	10	7	5	3	2	22	24	
494,959	3.792	14	10	8	7	5	4	3	22	23	
495,040	3.749	32	27	22	18	13	9	7	22	23	
495,125	3.778	14	11	9	7	5	4	4	22	24	
495,201	3.764	14	10	7	5	3	2	1	22	24	km 494 = 1235m
495,040	3.785	12	8	7	5	3	2	1	22	24	
495,120	3.807	18	14	12	9	7	5	4	22	24	
495,201	3.764	22	17	14	10	7	5	3	22	24	
495,283	3.771	24	19	15	12	8	5	4	22	24	
495,363	3.785	18	14	12	9	7	5	4	22	24	
495,440	3.800	17	13	10	7	4	2	1	22	24	
495,523	3.749	27	20	15	10	5	2	1	22	24	
495,601	3.742	34	24	18	12	5	2	1	22	24	
495,682	3.778	16	12	10	7	5	3	3	23	24	
495,760	3.778	26	21	18	14	10	6	5	23	24	
495,839	3.778	21	17	15	13	10	7	6	23	25	
495,920	3.764	26	20	16	13	8	5	4	23	25	km 495 = 980m
496,014	3.749	29	23	20	15	10	6	3	23	25	
496,080	3.771	21	17	14	12	8	5	4	23	25	
496,162	3.720	54	45	38	30	20	12	7	23	25	
496,240	3.641	70	58	50	35	24	13	7	23	25	
496,321	3.569	113	90	71	51	29	14	7	23	25	
496,482	3.728	49	37	29	22	13	7	4	23	25	
496,563	3.749	19	14	12	10	7	5	4	23	25	
496,640	3.764	16	11	9	7	5	4	3	23	25	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007					
PISTA: Dupla / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
496,720	3.706	46	35	25	17	9	6	4	23	25	
496,801	3.684	72	49	34	22	15	10	7	23	25	
496,883	3.735	16	11	9	7	5	4	4	23	25	
496,963	3.720	48	40	34	26	16	10	7	23	26	km 496 = 1003m
497,040	3.771	14	10	8	6	5	3	3	23	25	
497,120	3.764	11	8	7	6	4	3	3	23	26	
497,201	3.749	17	13	11	9	7	5	4	23	25	
497,281	3.749	18	12	10	8	5	4	3	23	26	
497,363	3.756	18	14	12	10	7	5	4	23	26	
497,440	3.749	26	20	17	14	11	8	7	23	26	
497,520	3.713	26	23	22	17	13	9	7	23	26	
497,602	3.742	18	13	10	8	6	5	4	23	26	
497,682	3.749	21	16	13	11	8	5	4	23	26	
497,760	3.742	30	24	21	17	12	8	6	23	26	
497,841	3.749	17	12	10	7	5	3	3	23	26	
497,920	3.706	25	18	15	11	8	5	4	23	26	km 497 = 951m
498,000	3.764	24	18	15	12	8	6	4	23	26	
498,081	3.749	18	13	10	8	5	4	3	23	26	
498,162	3.670	30	27	22	16	10	6	5	25	26	
498,242	3.663	46	30	19	12	7	5	4	25	26	
498,320	3.728	25	18	15	11	8	5	4	25	26	
498,401	3.756	17	13	11	9	6	4	3	25	26	
498,481	3.706	53	38	25	15	8	4	3	25	26	início de ponte km 498,495
498,561	3.699	55	37	26	17	8	4	3	25	27	fim de ponte km 498,542
498,641	3.728	24	16	12	9	5	3	2	25	27	
498,722	3.735	23	17	14	12	8	5	3	25	27	
498,802	3.728	26	18	15	12	8	5	3	25	27	
498,880	3.720	18	11	9	7	5	3	2	25	26	
498,960	3.749	9	6	5	5	4	3	2	25	26	km 498 = 960m
499,040	3.749	12	9	8	6	4	3	2	25	26	
499,121	3.742	14	10	8	7	5	3	2	25	26	
499,201	3.720	12	9	8	6	4	3	2	25	27	
499,282	3.713	27	20	16	12	7	4	3	25	27	
499,362	3.677	35	22	17	12	8	5	4	25	27	
499,440	3.677	24	18	16	13	10	7	6	25	27	
499,521	3.692	25	19	16	13	10	7	5	25	27	
499,601	3.699	27	19	16	12	9	6	5	25	27	
499,682	3.728	17	14	12	10	7	4	3	25	27	
499,762	3.634	73	39	27	16	8	4	2	25	27	
499,843	3.641	50	29	20	14	8	3	3	25	27	
499,923	3.699	18	13	11	9	6	4	3	25	28	km 499 = 1000m
500,000	3.670	23	16	13	11	7	5	3	25	28	
500,081	3.692	21	14	12	10	7	5	5	25	28	
500,160	3.713	22	15	12	10	7	5	4	25	28	
500,242	3.684	24	17	14	11	7	5	4	25	28	
500,321	3.670	21	15	12	10	7	5	4	25	28	
500,401	3.699	21	15	12	10	7	4	3	25	28	
500,482	3.641	33	22	17	13	8	6	5	25	28	
500,561	3.692	20	13	11	9	6	4	3	25	28	
500,642	3.684	42	28	21	15	8	5	4	25	28	
500,722	3.576	62	41	29	19	10	6	5	25	28	
500,802	3.605	70	47	31	18	8	4	3	25	28	
500,880	3.684	27	19	15	12	8	5	4	25	28	
500,960	3.677	43	28	21	15	8	4	3	25	28	
501,040	3.713	18	12	10	8	5	3	3	25	28	
501,120	3.720	14	10	8	6	4	3	2	25	28	km 500 = 1142m
501,040	3.728	18	11	8	6	4	3	2	25	28	
501,121	3.684	25	19	16	12	8	5	4	25	28	
501,201	3.692	34	25	19	14	9	6	5	25	28	
501,280	3.713	22	16	13	10	7	4	3	27	28	
501,360	3.713	21	15	12	9	6	4	3	27	28	
501,440	3.706	28	20	16	12	7	5	4	27	28	
501,522	3.699	27	22	18	13	9	5	3	27	28	
501,600	3.634	67	51	37	25	13	7	5	27	28	
501,680	3.692	28	20	15	11	7	4	3	27	28	
501,759	3.619	69	36	27	15	6	3	3	27	28	km 501 = 804m
502,000	3.677	22	14	10	7	4	2	2	27	29	
502,080	3.684	13	9	8	7	5	4	3	27	28	
502,162	3.670	20	14	11	9	6	4	4	27	28	
502,240	3.699	18	12	10	7	6	4	4	27	28	
502,322	3.677	42	30	23	16	9	5	4	27	29	
502,400	3.634	78	61	45	29	13	7	5	27	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
502,480	3,692	33	23	18	13	7	4	2	27	29	
502,558	3,684	27	19	14	10	6	4	3	27	28	
502,641	3,720	18	13	10	8	5	4	3	27	28	
502,720	3,692	25	16	12	9	5	3	3	27	28	
502,801	3,663	30	18	13	8	5	3	2	27	29	
502,884	3,670	51	36	27	20	12	7	5	27	29	
502,960	3,634	90	69	48	30	14	7	5	27	28	km 502 = 970m
503,040	3,641	48	33	23	15	8	4	3	27	28	
503,121	3,634	45	31	25	15	8	4	3	27	29	
503,201	3,655	58	39	27	17	9	5	4	27	28	
503,283	3,684	13	8	7	5	4	3	3	27	29	
503,360	3,670	25	17	13	9	6	4	3	27	29	
503,441	3,677	32	22	16	11	6	4	3	27	28	
503,521	3,663	34	26	20	14	8	4	3	27	28	
503,601	3,627	46	34	24	17	10	6	4	27	29	
503,681	3,663	33	26	22	17	11	6	4	27	29	
503,762	3,648	33	22	17	13	8	5	4	27	29	
503,843	3,619	26	18	13	10	7	5	4	27	29	km 503 = 892m
504,000	3,634	42	27	19	12	7	4	4	27	29	
504,080	3,612	44	32	23	16	9	6	5	27	29	
504,162	3,612	54	41	31	21	11	6	5	27	28	
504,240	3,655	31	20	15	11	7	4	3	27	29	
504,321	3,663	29	21	16	11	7	4	3	27	29	
504,402	3,670	29	24	17	11	6	4	3	27	29	
504,483	3,684	19	12	9	8	6	4	3	27	29	
504,540	3,627	41	25	18	12	7	4	3	27	29	
504,640	3,677	42	29	21	14	7	3	2	27	29	
504,721	3,641	72	51	33	19	6	3	3	27	29	
504,803	3,648	50	34	22	13	6	3	3	27	29	
504,880	3,634	74	54	36	24	10	5	3	27	29	
504,959	3,677	16	12	10	8	6	4	3	27	29	
505,040	3,692	19	14	11	8	5	3	2	27	29	km 504 = 1040m
505,120	3,598	87	63	47	28	13	7	5	28	28	
505,201	3,670	74	54	39	27	10	4	3	28	28	
505,281	3,720	50	41	29	19	10	5	3	28	28	
505,360	3,756	9	7	6	5	5	3	3	28	28	
505,439	3,648	89	66	48	29	10	5	4	28	28	
505,519	3,749	10	8	7	6	5	4	3	28	28	
505,600	3,749	21	16	12	9	6	4	3	28	28	
505,681	3,749	30	21	16	12	7	4	2	28	28	
505,761	3,749	24	17	13	9	6	3	2	28	28	
505,843	3,735	48	32	22	14	7	4	3	28	28	
505,923	3,655	69	37	22	11	5	4	3	28	28	km 505 = 1023m
506,000	3,713	35	28	23	17	11	6	4	28	28	
506,081	3,634	94	62	39	21	9	6	5	28	28	
506,162	3,641	102	60	37	19	8	5	4	28	29	
506,242	3,692	71	48	31	18	8	4	4	28	29	
506,322	3,677	84	57	32	15	7	5	4	28	29	
506,400	3,692	71	56	38	23	12	8	7	28	29	
506,480	3,728	25	20	17	14	9	6	4	28	29	
506,560	3,677	89	52	32	17	9	6	5	28	29	
506,640	3,634	91	68	46	27	15	10	7	28	28	
506,721	3,648	87	61	41	27	12	8	6	28	29	
506,802	3,684	81	62	38	19	10	6	6	28	29	km 506 = 822m
507,040	3,735	27	17	12	8	5	3	3	28	29	
507,117	3,605	92	47	29	16	8	6	5	28	29	
507,200	3,692	45	31	23	16	10	6	5	28	29	
507,277	3,677	81	55	36	21	11	7	5	28	29	
507,358	3,663	110	65	35	16	7	4	4	28	29	
507,440	3,728	55	37	24	15	7	4	3	28	29	
507,519	3,663	84	56	38	22	10	5	4	28	29	
507,600	3,655	68	48	29	15	6	4	3	28	30	
507,680	3,728	38	24	17	12	7	5	4	28	29	
507,761	3,699	52	32	21	13	8	5	5	28	29	
507,840	3,706	42	28	20	14	8	5	4	28	29	
507,919	3,735	37	26	18	11	6	3	3	28	29	
508,001	3,713	40	26	19	13	8	5	4	28	29	km 507 = 1100m
508,000	3,699	53	37	27	18	9	5	3	28	30	
508,080	3,706	30	20	13	9	6	4	4	28	30	
508,161	3,699	44	28	19	12	7	5	4	28	30	
508,241	3,692	38	24	17	11	6	4	4	28	30	
508,321	3,692	33	22	16	11	7	5	4	28	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 442,9 ao km 445,6 / km 470,4 ao km 597,0						DATA: fev/2007			
PISTA: Dupla / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
508,402	3,684	57	38	28	17	9	5	4	28	30	
508,483	3,670	51	35	25	17	9	5	4	28	30	
508,560	3,677	49	30	21	13	8	5	5	28	30	
508,640	3,699	43	29	20	13	7	4	3	28	30	
508,720	3,677	51	35	25	16	8	4	3	28	30	
508,800	3,663	72	46	31	18	9	5	4	28	30	km 508 = 880m
509,000	3,677	47	29	19	11	5	3	2	28	30	
509,040	3,699	56	37	25	16	9	5	4	28	30	
509,121	3,692	56	39	28	19	10	7	6	28	30	
509,200	3,641	50	29	20	13	9	7	6	28	30	
509,280	3,699	31	20	14	10	7	5	4	28	30	
509,358	3,706	35	22	15	9	5	3	3	28	30	
509,438	3,677	47	33	23	15	9	6	5	28	30	
509,518	3,677	63	36	21	12	7	5	4	28	30	
509,600	3,663	59	39	25	15	9	6	5	28	30	
509,681	3,627	88	62	38	21	11	7	6	28	30	
509,761	3,677	66	44	28	17	8	5	4	28	30	
509,841	3,627	62	34	24	14	8	6	5	28	30	
509,922	3,634	72	47	28	14	7	4	3	28	30	
510,000	3,677	55	37	24	13	6	4	3	28	30	km 509 = 1065m
510,000	3,619	41	30	18	9	5	4	3	28	30	
510,081	3,663	51	32	22	14	8	5	4	28	30	
510,161	3,619	82	51	33	20	13	9	7	28	30	
510,241	3,619	79	54	27	15	7	4	3	28	31	
510,322	3,598	45	36	25	15	7	3	3	28	31	
510,400	3,670	75	44	26	14	5	3	2	28	30	
510,479	3,663	64	45	28	13	7	5	4	28	30	
510,561	3,619	77	53	28	18	10	6	5	28	31	
510,640	3,663	69	43	29	18	10	6	5	28	31	
510,721	3,670	37	23	16	10	6	4	3	28	31	
510,800	3,605	71	44	27	15	8	5	4	28	31	
510,882	3,677	30	19	13	9	6	4	3	28	31	km 510 = 948m
511,040	3,612	79	53	32	17	9	7	5	28	31	
511,120	3,605	76	46	26	17	11	7	6	28	31	
511,201	3,663	35	20	13	9	6	4	3	28	31	
511,281	3,684	35	22	15	9	6	4	4	28	31	
511,363	3,605	77	57	33	21	12	9	7	28	31	
511,440	3,634	69	36	21	12	7	5	5	28	31	
511,519	3,684	43	28	20	13	8	5	4	28	31	
511,599	3,641	81	50	25	14	7	5	4	28	31	
511,680	3,634	54	36	23	13	8	6	5	28	32	
511,760	3,612	77	54	38	25	15	10	7	28	31	
511,841	3,612	48	34	21	12	7	5	4	28	31	
511,921	3,490	157	41	25	19	11	4	6	28	32	km 511 = 1000m
512,000	3,634	59	35	23	13	7	5	5	28	31	
512,080	3,439	79	73	48	49	20	5	14	28	32	
512,160	3,627	55	37	26	16	10	7	5	28	32	
512,241	3,598	75	49	30	17	8	5	5	28	31	
512,321	3,648	65	41	26	13	7	5	5	28	31	
512,400	3,663	56	35	21	12	5	3	3	28	32	
512,482	3,684	31	19	13	9	6	5	4	28	32	
512,562	3,677	27	17	12	8	6	4	3	30	32	
512,640	3,684	45	28	19	11	5	3	2	30	32	
512,721	3,641	77	52	31	16	7	4	3	30	32	
512,802	3,677	53	35	24	14	6	4	3	30	32	
512,882	3,663	44	26	18	10	5	3	3	30	32	
512,960	3,692	45	30	21	13	7	4	3	30	32	km 512 = 1000m
513,041	3,670	56	37	26	17	9	5	4	30	32	
513,122	3,663	45	28	19	12	7	5	4	30	32	
513,200	3,684	40	23	15	9	5	3	3	30	32	
513,279	3,684	30	19	13	8	5	4	3	30	32	
513,361	3,677	38	22	15	9	5	3	3	30	32	
513,440	3,655	54	36	26	16	9	5	4	30	32	
513,521	3,670	47	31	21	13	7	4	3	30	32	
513,602	3,677	28	17	12	8	5	3	3	30	32	
513,680	3,663	41	26	18	12	7	5	4	30	32	
513,756	3,627	65	34	23	12	7	6	5	30	32	
513,821	3,663	59	42	29	14	7	4	4	30	32	
513,840	3,555	73	52	34	19	9	5	4	30	32	
513,920	3,655	67	43	30	20	10	6	5	30	32	km 513 = 940m
514,000	3,619	86	62	42	26	11	6	5	30	32	
514,080	3,641	62	39	27	15	7	4	3	30	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0					DATA: fev/2007
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
514,161	3.663	34	20	14	9	6	4	3	30	32	
514,241	3.670	31	19	14	9	6	4	3	30	32	
514,322	3.670	34	22	16	11	7	5	4	30	32	
514,401	3.663	43	29	21	15	10	7	6	30	32	
514,480	3.576	70	51	31	19	12	9	7	30	32	
514,559	3.663	39	25	17	11	5	3	2	30	32	
514,640	3.655	43	28	20	12	6	4	3	30	32	
514,721	3.663	35	22	16	10	6	4	3	30	32	
514,802	3.591	71	40	24	14	7	4	4	30	32	
514,882	3.648	58	32	20	12	5	3	3	30	32	
514,963	3.655	49	26	15	8	4	3	2	30	32	km 514 = 1000m
515,042	3.663	40	20	13	7	4	2	2	30	33	
515,120	3.677	40	22	13	8	4	2	2	30	32	
515,199	3.684	28	15	9	6	4	2	2	30	32	
515,280	3.677	54	32	19	10	5	3	3	30	32	
515,360	3.670	37	20	13	7	4	3	2	30	32	
515,440	3.692	25	16	10	6	3	2	2	30	32	
515,519	3.699	32	17	11	7	4	3	2	30	32	
515,600	3.677	64	45	26	14	6	3	2	30	32	
515,680	3.684	35	20	12	7	5	3	3	30	32	
515,761	3.692	35	19	12	7	4	3	2	30	32	
515,841	3.684	42	24	15	8	5	4	4	30	32	
515,922	3.655	50	33	23	15	6	3	3	30	32	km 515 = 963m
516,000	3.663	49	28	18	10	5	3	3	30	32	
516,082	3.655	53	32	21	11	5	3	3	30	32	
516,160	3.670	36	20	12	7	4	3	3	30	33	
516,240	3.655	33	18	11	7	4	2	2	30	33	
516,321	3.663	38	22	14	8	5	3	2	30	33	
516,401	3.670	36	22	15	10	7	4	4	30	33	
516,482	3.677	36	21	14	9	5	4	3	30	33	
516,562	3.670	36	20	13	8	5	4	3	30	33	
516,640	3.663	33	19	12	7	4	2	2	30	33	
516,722	3.663	55	34	23	14	7	3	3	30	34	
516,800	3.663	54	33	24	16	8	3	2	30	34	
516,882	3.663	43	24	15	9	6	5	4	30	34	km 516 = 1010m
517,040	3.663	44	25	16	10	6	5	4	30	34	
517,121	3.634	67	45	29	18	10	7	7	30	34	
517,200	3.648	44	27	18	11	5	3	2	30	34	
517,277	3.648	57	35	22	12	5	2	2	30	35	
517,357	3.605	76	49	34	21	13	8	7	30	35	
517,438	3.634	45	27	18	11	7	5	5	30	35	
517,519	3.619	56	31	19	11	6	4	3	30	35	
517,599	3.569	89	62	41	20	8	3	3	30	35	
517,680	3.641	55	32	20	11	6	5	4	30	35	
517,759	3.627	42	24	16	10	7	5	4	30	35	
517,842	3.634	46	27	18	12	7	4	4	30	35	
517,921	3.648	42	28	20	14	9	6	5	30	36	km 517 = 1025m
518,012	3.619	59	38	28	20	13	9	8	30	35	
518,040	3.663	53	31	21	14	9	6	5	30	35	
518,121	3.619	74	50	27	16	5	2	2	30	36	
518,201	3.598	53	35	22	14	8	5	4	30	36	
518,282	3.540	88	55	34	22	12	9	8	34	36	
518,362	3.583	76	51	33	21	11	7	5	34	36	
518,443	3.648	58	36	22	13	7	4	4	34	36	
518,540	3.591	63	38	24	15	7	5	4	34	36	
518,621	3.605	67	41	26	14	7	4	3	34	36	
518,680	3.634	69	45	26	15	8	5	4	34	36	
518,760	3.627	66	41	25	14	7	4	4	34	36	
518,841	3.591	83	43	25	13	6	3	3	34	36	
518,921	3.655	49	29	19	11	6	4	4	34	36	
518,960	3.569	77	45	30	18	10	6	5	34	36	km 518 = 1000m
519,040	3.576	84	41	22	14	6	4	4	34	36	
519,121	3.612	77	59	34	17	7	3	3	34	36	
519,202	3.591	51	35	23	13	6	4	4	34	36	
519,283	3.634	72	36	22	12	5	3	3	34	36	
519,360	3.612	75	46	27	17	9	6	5	34	36	
519,440	3.655	44	23	14	8	5	3	3	34	36	
519,520	3.605	69	39	22	14	8	6	5	34	36	
519,601	3.641	50	33	22	13	8	5	4	34	36	
519,682	3.648	39	22	15	10	6	4	4	34	36	
519,763	3.655	59	35	22	13	6	3	3	34	36	
519,840	3.663	50	27	17	9	4	2	2	34	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
519,921	3.583	70	43	28	16	7	3	2	34	36	km 519 = 960m
520,000	3.641	55	32	23	15	9	6	5	34	36	
520,080	3.655	52	32	21	14	8	5	4	34	36	
520,161	3.591	66	34	21	13	8	5	4	34	36	
520,242	3.655	56	34	21	13	8	5	4	34	35	
520,323	3.562	81	45	30	17	9	5	5	34	36	
520,400	3.583	76	51	34	21	12	8	7	34	35	
520,479	3.576	109	64	41	23	11	6	5	34	35	
520,560	3.619	82	58	37	22	9	5	4	34	35	
520,641	3.612	82	58	38	22	11	5	4	34	35	
520,720	3.605	53	32	20	12	7	5	5	34	36	
520,802	3.655	50	35	21	13	8	5	5	34	35	
520,881	3.634	72	44	28	16	8	4	3	34	36	
520,971	3.627	68	42	28	17	10	5	4	34	36	km 520 = 986m
521,040	3.598	73	52	32	19	9	5	4	34	36	
521,121	3.533	82	52	32	19	8	4	3	34	36	
521,201	3.583	70	45	28	17	8	5	3	34	36	
521,281	3.583	61	33	21	12	7	4	3	34	36	
521,363	3.627	68	47	26	14	7	4	3	34	36	
521,440	3.605	76	41	24	13	6	3	3	34	36	
521,521	3.627	64	35	19	10	4	2	2	34	36	
521,600	3.583	82	48	35	24	14	9	7	34	36	
521,677	3.576	78	55	35	22	13	7	6	34	36	
521,757	3.605	79	48	34	21	11	6	4	34	36	
521,841	3.648	47	27	18	12	6	3	3	34	36	km 521 = 874m
522,000	3.655	54	37	23	13	6	4	3	34	36	
522,080	3.612	63	44	25	13	6	4	3	34	36	
522,162	3.569	85	49	30	16	6	3	2	34	36	
522,242	3.547	87	59	36	19	7	4	3	34	36	
522,322	3.591	84	15	26	16	7	5	3	34	36	
522,400	3.605	65	35	20	12	6	4	3	34	36	
522,479	3.576	60	30	17	9	4	2	2	34	36	
522,560	3.504	81	46	28	16	9	5	5	34	36	
522,641	3.663	41	26	16	9	4	2	2	34	36	
522,721	3.605	74	49	30	16	7	4	3	34	36	
522,800	3.634	58	34	21	11	5	3	3	34	36	
522,880	3.612	52	31	20	13	8	5	4	34	36	
522,961	3.583	62	34	21	11	5	3	2	34	36	km 522 = 1000m
523,041	3.612	44	26	17	10	5	3	3	34	36	
523,120	3.619	50	31	21	13	7	4	3	34	36	
523,198	3.612	43	32	21	13	7	5	5	34	36	
523,279	3.627	38	23	15	10	6	4	4	34	36	
523,358	3.605	58	34	20	11	6	3	2	34	36	
523,442	3.634	47	27	18	10	5	2	2	34	36	
523,523	3.634	42	26	18	11	7	4	4	34	36	
523,614	3.619	50	32	23	15	9	6	4	34	36	
523,680	3.634	46	27	17	10	5	3	2	34	36	
523,760	3.562	57	34	20	11	4	2	2	34	36	
523,840	3.612	68	43	27	15	7	4	3	34	36	
523,920	3.555	75	46	29	16	8	4	4	34	36	km 523 = 1000m
524,000	3.619	34	26	22	18	12	6	4	34	36	
524,081	3.547	76	49	32	20	11	6	4	34	36	
524,160	3.583	69	39	25	15	8	5	4	34	36	
524,242	3.562	58	36	25	17	9	6	5	34	36	
524,321	3.598	52	33	19	11	6	5	4	34	35	
524,402	3.619	50	31	21	13	8	5	4	34	36	
524,483	3.583	53	29	20	14	9	6	5	34	36	
524,562	3.598	66	38	24	15	8	4	3	34	36	
524,640	3.598	51	30	19	12	7	4	4	34	35	
524,721	3.605	56	35	24	14	7	4	4	34	36	
524,800	3.627	53	39	26	15	7	4	4	34	36	
524,880	3.583	65	41	29	19	12	8	7	34	36	
524,962	3.576	84	48	32	21	10	6	5	34	36	km 524 = 1024m
525,040	3.598	59	36	23	15	7	4	3	34	36	
525,121	3.612	43	30	24	18	12	6	4	34	36	
525,201	3.634	33	24	18	14	8	4	4	34	36	
525,280	3.526	65	35	23	15	9	6	5	34	36	
525,358	3.598	67	33	21	13	9	6	5	34	36	
525,438	3.612	90	49	30	18	9	6	5	34	36	
525,519	3.619	60	42	25	14	7	5	4	34	36	
525,601	3.605	59	36	23	13	6	4	3	34	36	
525,682	3.605	87	53	32	17	9	5	5	34	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0					DATA: fev/2007
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
525,761	3.598	73	45	27	14	6	3	3	34	36	
525,842	3.605	75	47	29	15	8	6	5	34	36	
525,920	3.605	90	59	39	22	9	5	4	34	36	km 525 = 960m
526,000	3.583	80	51	30	17	9	5	5	34	36	
526,080	3.576	39	25	20	15	10	6	4	34	36	
526,162	3.619	35	19	13	9	6	3	3	34	36	
526,240	3.598	28	18	13	9	6	4	3	34	36	
526,321	3.576	55	31	22	15	9	6	4	34	36	
526,402	3.627	25	14	10	8	5	4	3	34	36	
526,482	3.569	70	34	20	11	6	4	4	34	36	
526,563	3.619	56	36	22	13	7	5	4	34	36	
526,643	3.598	49	31	17	11	7	5	4	34	36	
526,723	3.576	69	33	19	10	5	3	3	34	36	
526,800	3.583	89	58	37	22	9	5	5	34	36	
526,883	3.576	63	40	26	15	8	5	5	34	37	
526,962	3.605	54	32	22	14	8	5	5	34	37	km 526 = 965m
527,040	3.598	47	29	21	14	9	6	5	34	37	
527,121	3.612	44	29	20	13	7	5	4	34	36	
527,202	3.598	53	35	21	12	7	4	4	34	36	
527,283	3.598	69	41	25	14	7	5	5	34	37	
527,363	3.583	71	37	24	14	9	6	5	34	37	
527,440	3.598	75	38	24	15	8	5	4	34	36	
527,521	3.583	67	42	29	18	10	6	5	34	36	
527,602	3.562	74	49	32	17	9	5	4	34	36	
527,682	3.576	65	40	26	16	7	4	4	34	36	
527,762	3.591	59	36	23	14	6	4	4	34	36	
527,842	3.583	54	34	23	14	7	4	4	34	36	
527,922	3.569	68	34	26	15	7	4	3	34	36	km 527 = 1000m
528,000	3.605	57	30	23	13	6	4	3	34	36	
528,080	3.591	65	24	28	17	9	6	5	34	36	
528,160	3.547	48	22	21	16	11	7	5	34	36	
528,241	3.591	39	30	24	19	13	9	7	34	36	
528,320	3.569	50	30	28	21	14	9	7	34	36	
528,400	3.583	48	26	23	15	8	4	3	34	36	
528,478	3.511	72	49	40	24	14	6	4	34	36	
528,557	3.619	25	13	12	9	5	3	2	34	36	
528,639	3.612	38	21	19	13	7	4	3	34	36	
528,720	3.619	56	32	27	18	11	6	5	34	37	
528,798	3.591	41	21	18	13	7	4	3	34	36	km 528 = 860m
529,040	3.612	42	22	19	14	8	5	4	34	36	
529,121	3.555	48	26	24	19	12	8	7	34	36	
529,203	3.598	47	26	24	16	10	6	5	34	36	
529,280	3.555	60	34	31	23	14	8	6	34	36	
529,359	3.497	79	41	36	26	13	7	6	34	36	
529,440	3.547	57	33	25	17	11	6	6	34	36	
529,519	3.576	30	12	16	12	8	5	4	34	36	
529,599	3.547	36	25	20	15	9	6	4	34	36	
529,680	3.526	38	23	22	17	12	8	6	34	36	
529,760	3.576	34	20	18	13	8	5	4	34	36	
529,841	3.555	57	29	29	20	13	7	5	34	36	
529,921	3.555	49	31	23	16	10	6	5	34	36	km 529 = 1006m
530,000	3.591	32	21	18	13	8	5	4	34	36	
530,081	3.634	32	22	17	12	8	5	4	34	36	
530,161	3.583	40	21	16	11	7	4	3	34	36	
530,241	3.569	44	24	18	13	8	5	4	34	36	
530,321	3.605	31	19	15	11	7	4	3	34	36	
530,400	3.591	44	27	20	12	7	4	3	34	36	
530,480	3.598	39	23	20	14	8	4	4	34	36	
530,561	3.547	54	26	20	13	7	4	4	34	36	
530,640	3.540	73	29	20	11	5	3	3	34	36	
530,721	3.605	51	32	30	21	13	7	5	34	36	
530,800	3.410	78	63	1	38	9	10	9	34	36	
530,883	3.569	79	55	36	23	12	6	5	34	36	
530,962	3.562	57	37	25	16	8	5	4	34	35	km 530 = 1000m
531,044	3.619	29	21	17	12	7	4	3	34	35	
531,120	3.583	64	40	29	19	11	6	5	34	35	
531,201	3.619	43	27	20	13	6	3	2	34	35	
531,282	3.634	35	20	15	10	6	4	4	34	35	
531,363	3.547	73	44	24	12	6	4	3	34	34	
531,440	3.619	57	38	25	15	7	3	3	34	35	
531,519	3.612	46	28	17	9	5	3	3	34	34	
531,602	3.591	42	30	21	14	7	4	4	34	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
531,680	3,598	57	34	21	12	7	5	4	34	34	
531,762	3,576	45	32	19	12	6	3	2	34	34	
531,841	3,591	42	29	22	15	9	6	5	34	34	
531,920	3,583	55	33	23	13	8	5	4	34	34	km 531 = 1000m
532,000	3,288	64	37	28	19	13	9	7	34	34	
532,078	3,583	53	36	31	24	17	11	9	34	34	
532,160	3,598	35	23	17	11	7	4	4	34	34	
532,243	3,547	45	29	21	15	10	6	5	34	34	
532,321	3,562	71	49	36	25	16	10	8	34	33	
532,402	3,576	63	42	30	20	12	7	5	34	34	
532,483	3,591	54	39	30	21	13	8	6	34	34	
532,560	3,576	57	37	29	21	15	9	7	34	34	
532,639	3,598	39	25	19	14	9	6	5	34	33	
532,720	3,540	74	47	35	24	15	8	6	34	33	
532,800	3,576	68	52	40	26	15	8	5	34	33	
532,882	3,598	47	33	25	18	12	7	5	34	33	km 532 = 1000m
532,960	3,619	16	10	11	8	7	5	4	34	34	Início Trevo de Acesso BH
544,001	4,411	58	39	29	18	10	5	2	32	41	Final Trevo de Acesso BH
544,079	4,385	56	40	31	20	12	8	5	32	40	
544,160	4,398	55	40	29	18	9	4	2	33	40	
544,241	4,411	55	39	27	13	5	2	2	33	40	
544,321	4,489	34	22	16	10	6	4	4	32	36	
544,400	4,453	39	25	17	9	4	3	2	32	37	
544,481	4,477	25	16	12	7	4	2	2	32	39	
544,560	4,534	26	17	13	8	5	4	3	32	34	
544,640	4,520	28	19	14	8	4	2	2	32	39	km 544 = 1000m
544,721	4,500	30	21	16	10	6	3	2	32	39	início de ponte km 544,885
545,480	4,530	22	14	11	7	4	3	2	32	38	fim de ponte km 545,400
545,560	4,584	21	14	10	7	4	3	3	31	36	
545,640	4,538	31	21	15	8	4	1	1	31	36	
545,720	4,552	12	8	6	4	2	1	1	31	34	
545,800	4,511	33	21	16	10	6	4	4	32	34	km 545 = 975m
546,001	4,478	41	28	21	13	7	4	3	31	35	
546,080	4,417	55	38	29	19	12	8	5	31	33	
546,161	4,436	49	33	25	15	8	5	3	32	33	
546,241	4,412	71	51	37	19	8	3	1	31	31	
546,322	4,484	46	29	21	12	5	3	1	31	32	
546,400	4,452	55	40	31	20	10	5	3	31	32	
546,480	4,427	82	53	33	15	7	3	2	29	32	
546,562	4,396	88	58	32	18	10	7	5	29	31	
546,643	4,470	36	25	19	12	7	5	3	29	30	
546,721	4,514	37	25	20	14	8	6	4	29	31	
546,800	4,452	41	29	23	16	9	5	3	28	32	
546,879	4,462	52	38	30	21	13	8	5	28	36	
546,960	4,479	47	34	29	20	12	7	5	29	32	km 546 = 1000m
547,041	4,507	40	26	19	11	6	3	2	29	37	
547,121	4,448	39	24	18	10	5	3	2	28	36	
547,202	4,477	49	31	24	14	7	3	2	29	37	
547,281	4,462	35	30	25	20	14	9	6	29	35	
547,360	4,463	55	40	30	20	12	8	5	29	37	
547,440	4,448	52	36	27	17	9	4	2	29	36	
547,520	4,444	57	41	30	17	8	4	2	29	34	
547,601	4,423	61	42	31	19	10	6	3	28	36	
547,679	4,434	60	40	29	18	11	7	4	29	36	
547,761	4,376	62	43	31	19	11	7	5	29	36	
547,840	4,392	61	43	33	22	13	8	5	29	37	
547,921	4,457	47	31	24	15	8	4	2	28	38	km 547 = 980m
548,001	4,439	71	47	32	18	8	4	2	29	35	
548,081	4,469	59	44	35	19	12	8	5	29	36	
548,160	4,481	56	39	30	19	12	7	5	28	38	
548,241	4,413	71	49	32	18	10	6	4	29	27	
548,321	4,358	77	51	37	24	14	9	5	28	38	
548,403	4,430	58	42	33	23	15	9	6	29	36	
548,482	4,444	76	52	35	20	11	5	3	29	35	
548,563	4,421	52	34	26	16	7	3	1	29	35	
548,641	4,407	56	42	34	23	13	7	3	29	38	
548,721	4,469	34	23	17	11	6	3	2	29	32	
548,803	4,443	65	41	26	13	6	3	2	29	34	
548,879	4,479	50	36	28	18	10	6	4	29	33	
548,959	4,528	41	29	23	15	9	5	3	28	35	km 548 = 1000m
549,042	4,489	43	29	22	14	8	4	3	29	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
549,121	4.417	50	36	28	19	11	7	4	29	35	
549,201	4.528	19	14	11	8	5	3	2	29	34	início de ponte km 549,210
549,280	4.458	32	20	14	9	5	3	2	29	34	final de ponte km 549,252
549,360	4.450	43	28	21	13	6	3	2	29	36	
549,440	4.460	32	21	15	10	6	3	2	28	35	
549,521	4.448	37	21	14	8	4	2	1	28	38	
549,597	4.463	27	16	11	7	3	2	1	29	35	
549,681	4.527	24	19	16	13	9	6	5	28	34	
549,760	4.529	21	15	13	10	7	5	4	28	35	
549,842	4.535	14	10	9	7	5	4	3	28	35	
549,920	4.513	30	23	20	15	11	7	4	28	34	
550,000	4.523	23	16	13	10	7	4	3	29	33	km 549 = 1007m
550,080	4.558	15	11	9	7	5	4	3	29	23	
550,160	4.559	20	14	12	9	6	4	3	29	34	
550,240	4.584	21	15	13	10	7	5	3	28	36	
550,320	4.581	22	16	13	10	7	5	3	29	34	
550,401	4.567	28	20	15	9	5	3	2	29	35	
550,480	4.535	30	23	18	12	7	4	2	29	34	
550,560	4.511	31	22	16	9	5	3	2	29	35	
550,642	4.522	28	19	14	9	5	3	2	29	36	
550,720	4.535	14	10	9	6	4	3	1	29	34	
550,800	4.492	34	20	13	6	2	2	1	28	35	
550,880	4.584	21	14	10	7	4	3	3	29	34	
550,960	4.538	31	21	15	8	4	1	1	29	34	
551,042	4.469	34	23	17	11	6	3	2	29	33	km 550 = 1070m
551,040	4.622	47	32	23	12	6	3	2	23	29	
551,120	4.624	22	16	13	8	5	3	2	24	29	
551,200	4.524	42	28	20	11	5	2	2	24	29	
551,280	4.527	24	19	16	13	9	6	5	24	29	
551,360	4.513	30	23	20	15	11	7	4	24	29	
551,440	4.545	25	18	14	9	6	3	2	23	26	
551,520	4.568	19	14	13	10	7	5	4	23	26	
551,600	4.581	22	16	13	10	7	5	3	23	26	
551,680	4.523	23	16	13	10	7	4	3	23	26	
551,760	4.558	15	11	9	7	5	4	3	23	26	
551,840	4.527	24	19	16	12	9	6	5	28	34	km 551 = 895m
552,001	4.646	30	22	17	11	7	5	3	23	26	
552,081	4.522	28	19	14	9	5	3	2	23	26	
552,161	4.545	25	18	14	10	6	4	2	23	26	
552,241	4.527	32	22	17	10	5	3	2	23	26	
552,321	4.665	30	22	18	12	7	4	3	23	24	
552,401	4.518	35	26	21	15	9	5	3	23	24	
552,481	4.527	24	19	16	13	9	6	5	23	24	
552,561	4.529	21	15	13	10	7	5	4	23	24	
552,641	4.567	28	20	15	9	5	3	2	23	24	
552,721	4.527	32	22	17	10	5	3	2	23	29	
552,801	4.545	25	18	14	9	6	3	2	24	29	
552,881	4.524	38	29	23	16	10	6	3	24	29	
552,959	4.584	42	31	24	15	8	5	3	24	31	km 552 = 1000m
553,040	4.549	26	20	18	15	11	8	6	24	31	
553,120	4.567	28	23	21	17	13	9	6	24	31	
553,200	4.549	26	20	18	15	11	8	6	24	31	
553,280	4.566	22	17	15	13	10	8	5	24	31	
553,360	4.567	29	20	16	11	7	5	3	24	31	
553,442	4.594	29	20	14	8	4	3	2	24	33	
553,522	4.551	25	18	15	12	8	5	3	25	33	
553,602	4.566	22	17	15	13	10	8	5	25	33	
553,680	4.576	30	21	16	11	7	5	3	25	33	
553,760	4.557	18	14	12	10	8	6	4	25	33	
553,840	4.567	28	20	15	9	5	3	2	25	32	
553,920	4.562	18	13	12	10	8	6	4	25	33	km 553 = 965m
554,001	4.637	38	30	26	20	14	10	7	25	31	
554,081	4.549	40	31	27	21	14	9	6	25	31	
554,161	4.551	25	18	15	12	8	5	4	25	31	
554,241	4.525	43	31	24	16	10	6	4	25	33	
554,321	4.503	41	30	23	15	10	6	4	26	33	
554,401	4.633	34	25	20	13	7	4	2	26	33	
554,481	4.533	39	30	25	18	11	7	5	26	30	
554,561	4.613	12	9	8	7	6	5	4	26	30	
554,641	4.567	29	20	16	11	7	5	3	26	27	
554,721	4.551	25	18	15	12	8	5	3	26	27	
554,801	4.573	83	66	57	45	33	20	11	26	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
554,881	4.552	18	14	12	10	7	4	3	26	27	
554,961	4.525	43	30	24	16	10	6	4	26	27	km 554 = 1000m
555,041	4.556	38	29	27	22	16	12	8	26	27	
555,121	4.594	23	19	17	14	10	8	5	26	27	
555,201	4.561	11	9	8	6	5	4	3	24	27	
555,281	4.597	12	9	7	6	5	3	3	24	27	
555,360	4.673	22	15	11	7	4	2	1	24	27	início de viaduto km 555,481
555,601	4.619	28	20	16	11	6	3	1	27	30	final de viaduto km 555,521
555,681	4.583	24	20	17	15	11	8	5	27	30	
555,761	4.594	23	19	17	14	10	8	5	26	30	
555,841	4.615	12	9	8	6	5	4	3	26	30	
555,921	4.612	13	9	7	5	4	3	2	26	30	km 555 = 940m
556,001	4.659	10	7	6	5	3	2	2	26	30	
556,081	4.615	12	9	8	6	5	4	3	26	30	
556,161	4.638	21	17	16	14	11	9	6	26	30	
556,241	4.562	16	11	10	8	7	6	4	26	30	
556,321	4.659	19	14	11	8	5	4	3	27	30	
556,401	4.594	27	19	16	11	7	4	3	27	30	
556,481	4.604	19	14	12	10	7	4	3	27	30	
556,561	4.543	38	29	24	17	11	8	5	27	30	
556,641	4.536	31	24	22	18	14	9	6	27	30	
556,721	4.638	21	17	16	14	11	9	7	26	30	
556,801	4.616	49	35	28	19	11	6	4	26	31	
556,881	4.594	27	19	16	11	7	4	3	27	30	
556,961	4.541	36	27	22	16	11	8	4	25	32	km 556 = 1000m
557,040	4.541	35	27	22	16	11	8	5	25	32	
557,120	4.602	19	15	13	11	9	6	4	26	33	
557,200	4.514	53	40	30	21	13	7	4	27	33	
557,280	4.549	34	25	21	15	10	6	4	26	33	
557,360	4.615	52	39	31	20	12	7	4	25	32	
557,440	4.576	46	34	27	19	12	8	5	25	32	
557,520	4.615	37	27	21	13	7	4	3	25	32	
557,600	4.604	19	14	12	10	7	5	3	25	32	
557,680	4.626	33	26	22	16	10	6	3	25	32	
557,760	4.562	43	32	19	12	7	5	3	26	32	
557,840	4.615	36	26	21	13	8	4	3	26	32	
557,921	4.581	44	32	23	13	5	2	2	26	33	km 557 = 1000m
558,001	4.591	50	37	29	20	12	8	5	26	30	
558,081	4.609	35	24	16	8	3	3	2	25	30	
558,158	4.611	51	38	29	18	9	5	3	27	32	
558,238	4.596	39	28	19	11	6	3	3	25	30	
558,318	4.424	59	43	34	22	11	5	3	25	30	
558,398	4.422	47	35	24	15	8	5	3	25	30	
558,478	4.483	55	34	25	14	6	3	2	25	31	
558,558	4.453	40	24	11	5	3	3	2	25	31	
558,640	4.558	70	57	46	33	21	12	7	27	33	
558,720	4.517	43	30	20	11	6	3	2	25	32	
558,800	4.508	67	45	34	21	12	6	3	25	31	
558,880	4.527	31	22	17	11	7	4	3	25	32	
558,960	4.504	48	31	22	13	7	4	2	26	30	km 558 = 1000m
559,040	4.626	33	26	22	16	10	6	3	26	30	
559,121	4.576	36	27	21	14	8	4	2	26	30	
559,201	4.562	43	31	19	12	7	5	3	26	30	
559,281	4.597	20	15	13	10	7	5	4	26	30	
559,361	4.669	14	10	10	8	5	4	3	26	30	
559,441	4.624	16	13	12	10	8	7	5	26	30	
559,521	4.573	18	14	12	9	7	4	3	26	30	
559,601	4.628	25	16	12	8	4	2	1	26	30	
559,680	4.628	33	23	17	11	6	4	3	26	30	
559,760	4.599	42	31	23	15	8	5	3	26	30	
559,840	4.609	35	24	16	7	4	3	2	25	30	
559,920	4.596	39	27	19	11	6	3	3	25	30	km 559 = 980m
560,001	4.624	41	31	26	18	11	6	3	27	33	
560,081	4.579	32	24	19	13	7	4	3	26	32	
560,161	4.617	42	32	25	17	10	6	4	26	32	
560,241	4.584	35	26	21	13	8	5	3	26	32	
560,321	4.582	38	27	20	12	6	3	2	26	32	
560,401	4.615	40	28	19	10	5	3	2	26	32	
560,481	4.632	42	33	27	19	9	5	3	26	34	
560,561	4.591	50	37	30	20	12	8	4	26	34	
560,641	4.509	33	23	16	8	4	3	2	26	34	
560,721	4.537	43	30	22	12	5	3	2	26	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
560,800	4.617	42	32	25	17	10	6	3	26	34	
560,880	4.584	35	26	21	14	8	5	4	26	34	
560,960	4.624	34	25	18	10	7	4	3	26	34	km 560 = 1000m
561,040	4.453	40	23	11	6	3	3	2	26	34	
561,120	4.538	23	16	14	10	7	4	3	26	34	
561,200	4.471	35	22	16	10	6	4	2	26	34	
561,280	4.563	30	21	16	11	6	4	2	26	34	
561,360	4.509	34	23	16	8	4	3	2	26	34	
561,441	4.591	55	39	30	18	10	6	3	26	34	
561,521	4.537	43	31	22	12	5	3	2	26	34	
561,601	4.508	66	45	35	22	12	6	3	26	34	
561,681	4.471	35	22	16	10	6	4	2	26	34	
561,761	4.504	48	31	22	13	7	4	2	26	34	
561,841	4.460	37	25	20	14	9	6	4	26	34	
561,920	4.584	42	31	24	15	8	5	3	26	34	km 561 = 1000m
562,000	4.373	36	25	20	12	6	3	1	26	31	
562,080	4.375	21	16	13	9	5	3	1	26	32	
562,160	4.280	44	34	24	14	6	3	2	25	31	
562,240	4.357	40	29	22	13	6	3	1	26	31	
562,320	4.264	55	42	34	24	15	11	8	26	31	
562,400	4.321	19	16	14	12	10	8	6	25	30	
562,480	4.332	23	17	15	11	8	5	4	25	31	
562,560	4.305	44	33	28	19	12	8	6	26	31	
562,639	4.286	62	46	37	25	15	10	7	26	31	
562,719	4.313	44	32	27	19	11	6	3	25	31	
562,801	4.313	24	16	12	8	4	2	2	25	31	
562,880	4.359	13	11	10	9	7	5	3	25	31	
562,960	4.311	10	8	7	6	5	4	3	25	30	km 562 = 1025m
563,040	4.422	56	39	26	15	6	3	2	26	30	
563,120	4.517	29	22	18	13	8	4	2	26	30	
563,199	4.415	63	44	28	17	7	5	4	25	30	
563,280	4.537	22	16	13	10	6	4	3	26	30	
563,359	4.530	29	21	17	11	6	3	3	26	31	
563,440	4.539	24	18	14	10	7	5	3	26	31	
563,519	4.559	17	12	9	6	4	3	3	25	31	
563,599	4.264	46	31	21	11	7	4	3	25	31	
563,679	4.305	48	31	22	12	5	3	2	25	31	
563,760	4.344	46	31	21	12	7	4	3	26	30	
563,839	4.212	62	46	34	20	11	7	4	26	31	
563,919	4.338	64	48	39	26	16	10	6	25	31	km 563 = 1000m
564,001	4.226	42	30	23	14	6	3	1	25	31	
564,081	4.316	30	23	19	14	10	7	4	26	31	
564,159	4.264	62	46	35	25	17	11	8	26	30	
564,240	4.307	67	50	38	23	13	6	3	25	30	
564,321	4.288	51	33	22	12	7	4	3	25	30	
564,401	4.316	60	43	31	17	8	4	3	26	31	
564,480	4.327	50	33	24	13	6	3	2	25	31	
564,560	4.305	44	33	28	19	12	8	6	25	31	
564,639	4.286	62	46	37	25	15	10	7	25	30	
564,719	4.313	44	32	27	19	11	6	3	26	30	
564,800	4.289	51	38	30	20	12	7	4	26	30	
564,880	4.311	61	44	36	24	14	7	4	25	29	
564,960	4.313	31	27	22	15	9	4	2	25	30	km 564 = 1000m
565,040	4.150	56	45	32	19	7	4	3	28	33	
565,120	4.154	51	42	33	23	14	9	6	29	36	
565,200	4.159	45	36	28	20	13	9	7	29	37	
565,280	4.157	48	40	32	23	14	8	4	29	36	
565,361	4.183	19	17	16	14	12	10	8	29	35	
565,440	4.177	25	20	15	10	6	4	3	29	37	
565,522	4.158	47	40	32	22	12	7	3	29	36	
565,600	4.165	39	31	24	14	7	3	2	29	36	
565,680	4.130	78	66	48	31	9	6	3	29	38	
565,760	4.167	37	31	28	23	17	10	6	30	36	
565,842	4.132	75	68	52	35	15	9	6	30	36	
565,920	4.178	25	22	19	14	9	5	3	30	36	km 565 = 1000m
566,001	4.155	50	36	25	15	8	5	3	29	38	
566,080	4.140	66	44	29	10	5	3	3	30	38	
566,161	4.151	54	43	36	25	15	10	7	30	37	
566,240	4.142	65	45	28	25	7	5	4	30	38	
566,319	4.180	23	20	18	15	11	7	5	29	37	
566,401	4.178	25	22	20	17	12	9	6	30	37	
566,479	4.153	52	38	29	17	9	4	2	30	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0					DATA: fev/2007
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
566,560	4.152	53	39	24	11	4	3	3	30	35	
566,642	4.153	52	43	34	20	8	4	3	30	37	
566,719	4.119	90	73	62	44	28	17	9	29	38	
566,800	4.148	58	48	37	25	14	7	3	30	37	
566,880	4.150	56	45	37	26	17	10	6	30	38	
566,961	4.157	48	40	32	23	14	8	4	30	38	km 566 = 1000m
567,039	4.158	47	36	29	19	11	6	4	30	37	
567,121	4.177	25	20	16	10	5	2	1	31	37	
567,200	4.178	24	18	15	10	6	4	3	31	37	
567,280	4.160	45	33	26	16	8	4	3	31	38	
567,360	4.178	25	19	16	10	6	4	3	31	41	
567,441	4.160	45	37	29	18	9	4	2	31	41	
567,520	4.152	53	40	31	21	11	7	5	31	40	
567,602	4.178	24	20	16	12	8	5	3	31	40	
567,680	4.152	53	44	32	21	8	4	3	31	36	
567,760	4.153	52	39	26	12	3	2	1	31	38	
567,842	4.145	61	46	31	14	4	1	1	31	38	
567,921	4.152	53	44	33	20	12	8	6	32	38	
568,001	4.136	72	57	47	32	18	11	6	32	38	km 567 = 1098m
568,080	4.142	65	53	42	27	12	6	4	31	39	
568,161	4.132	75	59	46	28	13	5	2	32	39	
568,240	4.142	64	53	41	25	12	6	3	32	41	
568,321	4.138	69	55	41	24	13	6	3	33	39	
568,401	4.135	72	62	53	38	23	14	7	32	40	
568,480	4.150	55	46	34	21	8	3	2	32	40	
568,558	4.158	46	39	29	18	7	3	1	32	40	
568,640	4.152	53	40	30	17	8	4	2	31	40	
568,720	4.152	53	44	32	21	11	6	4	32	40	
568,803	4.152	54	39	28	17	9	5	3	33	40	
568,882	4.141	65	53	42	27	17	9	5	32	40	
568,961	4.149	57	45	35	23	12	6	3	32	41	km 568 = 980m
569,040	4.160	45	36	28	18	9	4	2	32	41	
569,122	4.168	36	26	18	11	5	2	1	33	42	
569,200	4.152	53	28	20	11	6	3	2	32	41	
569,280	4.145	61	46	31	14	4	1	1	31	41	
569,360	4.155	50	34	22	11	4	1	2	32	40	
569,440	4.156	49	37	26	14	6	2	1	32	41	
569,521	4.158	47	38	26	14	6	3	0	32	40	
569,598	4.151	55	43	30	18	10	6	4	32	40	
569,681	4.176	27	21	17	13	9	7	5	31	40	
569,761	4.158	47	38	27	11	3	1	0	33	39	
569,840	4.182	20	16	12	8	4	2	2	32	39	
569,920	4.173	30	23	18	12	7	4	3	33	40	
570,001	4.164	40	33	28	21	14	9	5	33	39	km 569 = 1096m
570,081	4.172	31	25	20	14	8	4	3	32	39	
570,160	4.174	29	21	15	8	4	2	1	32	38	
570,242	4.176	27	21	16	10	6	3	2	32	40	
570,321	4.176	26	20	16	11	5	2	1	32	39	
570,400	4.178	24	19	15	11	6	4	3	31	40	
570,480	4.163	45	33	26	16	8	4	3	32	41	
570,560	4.178	25	20	16	11	6	4	3	33	41	
570,640	4.155	51	42	33	23	14	9	6	33	40	
570,720	4.159	45	35	29	20	13	9	7	33	40	
570,800	4.157	49	40	33	23	14	8	4	33	41	
570,880	4.162	44	33	29	22	15	9	5	32	42	
570,960	4.169	34	28	22	15	9	5	3	32	39	km 570 = 970m
571,040	4.152	54	28	20	11	6	3	2	32	41	
571,119	4.178	25	19	15	10	6	4	3	33	41	
571,201	4.160	45	36	28	18	9	4	2	32	41	
571,282	4.152	54	40	31	21	11	7	5	31	40	
571,362	4.178	24	20	17	12	8	5	3	32	40	
571,440	4.178	24	20	16	11	7	4	3	32	40	
571,521	4.168	36	25	18	11	5	2	1	31	42	
571,601	4.180	22	17	13	9	5	2	1	32	42	
571,681	4.155	50	40	32	23	15	9	5	33	41	km 571 = 700m
572,080	4.160	45	35	30	21	13	7	4	32	41	
572,160	4.176	27	19	15	10	6	4	2	33	42	
572,240	4.177	25	19	16	12	8	5	3	32	42	
572,321	4.149	57	45	35	23	12	6	3	32	41	
572,403	4.146	60	45	35	22	12	6	4	32	41	
572,481	4.141	65	54	41	25	12	7	5	33	41	
572,521	4.149	57	45	35	23	12	6	3	33	41	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0					DATA: fev/2007
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
572.560	4.165	39	29	19	10	4	2	1	33	40	
572.641	4.183	19	16	14	10	7	4	2	32	42	
572.719	4.172	31	25	20	14	8	4	3	32	42	
572.800	4.161	43	32	27	19	12	7	4	31	43	
572.881	4.162	42	34	27	19	12	7	5	32	42	
572.960	4.158	47	36	28	20	13	8	4	32	42	km 572 = 1021m
573.042	4.160	44	34	29	22	15	9	5	32	42	
573.118	4.174	29	21	17	12	7	4	2	32	41	
573.203	4.148	57	40	26	14	4	1	0	31	43	
573.282	4.165	39	33	27	18	12	7	4	32	42	
573.360	4.177	27	20	17	13	9	7	5	32	40	
573.441	4.159	47	39	28	11	3	1	0	32	41	
573.522	4.183	19	16	13	8	5	2	2	31	40	
573.600	4.172	30	23	18	12	7	4	3	33	40	
573.680	4.174	29	23	18	12	7	4	3	32	42	
573.758	4.162	42	33	26	17	10	5	3	32	43	
573.840	4.151	54	45	37	26	16	10	5	32	43	
573.920	4.164	41	33	25	14	6	2	1	32	43	km 573 = 950m
574.001	4.170	33	24	18	11	5	2	1	32	42	
574.080	4.160	45	38	31	22	13	8	5	31	45	
574.159	4.165	39	28	21	13	7	3	2	32	44	
574.240	4.169	35	26	19	12	6	4	2	32	43	
574.321	4.168	35	25	18	11	5	3	2	32	43	
574.401	4.167	36	28	21	13	6	3	2	32	45	
574.482	4.137	70	55	43	26	13	7	4	32	44	
574.560	4.176	27	23	20	15	10	6	4	32	43	
574.640	4.151	54	43	33	19	8	3	1	32	42	
574.718	4.178	24	19	16	11	7	4	3	32	43	
574.801	4.175	28	23	19	14	9	6	4	32	43	
574.879	4.163	41	34	30	22	15	9	5	32	43	
574.962	4.146	60	47	37	21	10	5	3	33	41	km 574 = 1000m
575.039	4.267	72	56	44	31	19	12	7	32	38	
575.120	4.304	37	29	24	18	13	9	6	31	41	
575.200	4.265	61	42	30	16	10	6	4	32	37	
575.280	4.283	40	28	22	14	8	4	3	32	43	
575.360	4.305	37	26	20	13	7	4	3	32	43	
575.442	4.286	52	34	23	15	8	5	3	33	42	
575.520	4.273	49	35	26	15	9	6	4	32	36	
575.599	4.264	46	31	21	11	7	4	3	32	40	
575.679	4.305	48	31	22	12	5	3	2	33	39	
575.760	4.344	46	31	21	12	7	4	3	32	34	
575.839	4.212	62	46	34	20	11	7	4	31	33	
575.919	4.338	64	48	39	26	16	10	6	32	37	km 575 = 1000m
576.001	4.226	42	30	23	14	6	3	1	32	37	
576.080	4.373	38	29	23	16	10	6	4	32	37	
576.160	4.352	34	23	17	10	4	3	2	31	37	
576.240	4.339	39	28	22	13	8	4	3	32	37	
576.319	4.330	32	22	17	12	8	4	2	33	38	
576.399	4.326	44	32	23	14	6	2	1	33	38	
576.481	4.328	33	24	19	12	6	3	2	31	38	
576.560	4.314	39	29	19	10	4	1	1	33	36	
576.640	4.245	59	42	35	22	13	8	5	32	33	
576.721	4.337	82	52	43	30	16	11	8	32	35	
576.799	4.384	45	36	32	23	17	11	8	31	35	
576.880	4.271	82	55	38	28	17	12	8	31	35	
576.959	4.436	41	28	23	17	11	8	5	32	36	km 576 = 1000m
577.040	4.386	60	44	35	24	15	8	3	31	36	
577.123	4.368	25	19	16	12	8	5	3	31	37	
577.203	4.341	26	17	13	9	5	3	2	30	37	
577.280	4.365	22	16	14	10	6	4	3	29	37	
577.361	4.307	16	11	9	7	4	3	2	29	37	
577.440	4.343	18	13	10	6	3	2	1	29	36	
577.521	4.344	26	19	15	10	5	3	2	30	39	
577.601	4.321	44	32	26	18	11	6	4	30	39	
577.680	4.314	33	26	21	14	8	5	3	30	37	
577.760	4.321	20	14	11	7	4	2	1	29	35	
577.840	4.305	19	14	11	7	5	3	2	30	39	
577.919	4.348	32	23	17	11	6	3	2	30	40	km 577 = 970m
578.079	4.336	21	15	11	6	3	2	1	29	38	
578.160	4.393	20	15	12	8	4	2	1	29	39	
578.242	4.372	50	30	20	11	6	2	1	30	36	
578.322	4.413	24	17	13	8	4	2	1	30	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
578,400	4.336	65	43	31	17	10	6	4	30	37	
578,481	4.361	63	45	33	18	9	5	3	30	34	
578,558	4.303	41	31	24	17	10	6	3	29	37	
578,641	4.296	36	27	22	15	10	7	4	29	38	
578,721	4.363	24	18	16	12	9	7	4	30	37	
578,801	4.300	35	28	24	18	13	8	6	29	39	
578,881	4.327	25	18	13	8	4	2	1	30	35	
578,962	4.236	76	57	45	30	16	12	8	29	37	km 578 = 1000m
579,040	4.321	38	32	28	21	13	7	4	29	33	
579,118	4.388	26	21	18	14	9	6	4	30	35	
579,199	4.332	36	29	26	21	15	11	7	29	36	
579,278	4.276	70	54	44	33	20	11	6	29	35	
579,361	4.316	73	57	45	30	18	12	8	30	34	
579,440	4.327	89	68	54	35	21	12	7	29	36	
579,521	4.359	59	40	30	13	5	3	2	29	34	
579,600	4.354	51	37	26	13	7	3	1	28	32	
579,679	4.388	28	23	18	12	6	3	2	27	40	
579,760	4.365	49	38	29	21	13	8	5	27	38	
579,839	4.328	59	44	33	19	12	8	5	26	36	
579,919	4.305	47	30	21	9	3	1	1	28	39	km 579 = 970m
580,080	4.319	25	20	17	13	9	5	3	27	39	
580,160	4.316	32	21	16	9	4	2	1	28	38	
580,240	4.356	56	36	25	14	6	3	2	28	36	
580,321	4.319	58	40	29	17	9	5	3	27	38	
580,401	4.334	68	50	40	22	11	6	4	27	33	
580,480	4.300	53	38	30	20	12	8	5	27	37	
580,558	4.321	15	12	11	8	6	4	3	28	36	
580,640	4.314	38	27	20	13	7	4	2	27	36	
580,719	4.340	49	33	21	13	6	4	3	28	33	
580,801	4.313	24	16	12	8	4	2	2	28	33	
580,880	4.359	13	11	10	9	7	5	3	27	42	
580,960	4.311	10	8	7	6	5	4	3	27	39	km 580 = 1000m
581,041	4.405	12	9	7	5	4	3	2	27	40	
581,122	4.292	13	10	9	7	5	4	4	27	39	
581,200	4.332	25	18	16	12	9	6	4	27	36	
581,280	4.336	13	10	8	6	5	3	2	28	37	
581,361	4.336	38	27	21	14	8	6	4	27	37	
581,440	4.309	36	27	22	16	10	6	4	28	39	
581,522	4.300	32	25	21	16	11	7	5	28	38	
581,601	4.289	50	39	31	22	14	9	6	27	37	
581,681	4.238	57	43	37	26	14	7	4	27	37	
581,760	4.311	39	30	26	19	12	6	3	28	39	
581,840	4.285	66	48	36	22	14	8	5	28	37	
581,921	4.388	45	32	25	15	7	3	2	28	38	km 581 = 970m
582,081	4.316	30	23	19	14	10	7	4	29	41	
582,159	4.264	62	46	35	25	17	11	8	29	38	
582,240	4.307	67	50	38	23	13	6	3	28	36	
582,321	4.288	51	33	22	12	7	4	3	28	35	
582,401	4.316	60	43	31	17	8	4	3	29	39	
582,480	4.327	50	33	24	13	6	3	2	29	38	
582,561	4.316	37	25	18	11	5	2	2	29	39	
582,639	4.338	38	26	18	10	5	2	1	29	39	
582,720	4.278	51	38	28	17	10	6	4	28	38	
582,800	4.316	69	52	41	29	19	11	7	29	41	
582,880	4.325	65	47	35	22	12	7	4	29	36	
582,960	4.311	29	22	17	11	7	4	2	28	41	km 582 = 1000m
583,039	4.264	72	56	44	31	19	12	7	29	38	
583,121	4.303	37	29	24	18	13	9	6	29	41	
583,201	4.267	60	42	30	16	10	6	4	29	37	
583,281	4.289	40	28	22	14	8	4	3	29	43	
583,361	4.300	37	26	20	13	7	4	3	29	43	
583,442	4.285	51	34	23	15	8	5	3	29	42	
583,521	4.276	49	35	26	15	9	6	4	30	36	
583,599	4.263	46	31	21	11	7	4	3	29	40	
583,679	4.307	47	31	22	12	5	3	2	29	39	
583,762	4.342	46	31	21	12	7	4	3	30	34	
583,839	4.211	61	46	34	20	11	7	4	30	33	
583,919	4.328	65	48	39	26	16	10	6	30	37	km 583 = 980m
584,081	4.344	18	13	11	8	6	4	3	30	38	
584,160	4.321	32	25	21	15	10	6	4	29	39	
584,240	4.303	34	25	20	14	9	6	3	29	38	
584,319	4.309	33	26	22	16	9	5	3	30	39	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0				DATA: fev/2007	
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
584,399	4.311	31	26	24	20	15	10	6	29	39	
584,480	4.278	21	19	17	14	11	8	5	30	39	
584,560	4.285	35	23	18	11	6	3	1	30	38	
584,641	4.346	53	37	28	19	12	7	5	30	38	
584,721	4.334	52	40	34	24	16	10	6	29	38	
584,799	4.309	82	59	47	31	19	11	6	29	36	
584,880	4.346	77	50	35	19	9	5	3	30	37	
584,961	4.377	31	24	19	13	8	5	3	29	35	km 584 = 1000m
585,041	4.339	49	39	29	19	11	6	3	29	38	
585,121	4.321	40	31	24	16	9	5	3	30	39	
585,202	4.329	23	16	12	8	4	3	2	29	37	
585,282	4.352	64	47	34	20	10	5	3	29	37	
585,360	4.339	72	57	45	30	17	9	5	29	38	
585,440	4.366	43	29	21	13	6	3	2	30	39	
585,520	4.344	33	24	19	13	7	4	2	30	40	
585,601	4.381	46	33	26	15	7	3	2	30	40	
585,679	4.362	26	20	16	11	6	3	2	30	39	
585,759	4.323	51	36	27	15	7	4	3	30	36	
585,841	4.357	43	30	22	14	8	5	3	30	38	
585,919	4.393	44	32	27	19	12	7	4	30	39	km 585 = 970m
586,000	4.373	36	25	20	12	6	3	1	30	42	
586,080	4.375	21	16	13	9	5	3	1	30	35	
586,160	4.280	44	34	24	14	6	3	2	30	41	
586,242	4.357	40	29	22	13	6	3	1	29	43	
586,321	4.359	46	34	28	19	11	6	4	30	42	
586,399	4.312	56	44	38	28	19	12	6	29	41	
586,481	4.341	50	36	29	19	11	7	5	29	41	
586,560	4.361	26	21	18	13	9	5	3	29	42	
586,640	4.334	43	33	28	20	12	7	5	30	43	
586,719	4.323	45	34	29	22	16	11	8	30	38	
586,799	4.346	17	13	11	8	5	3	2	30	38	
586,880	4.339	42	31	26	19	12	7	4	30	33	
586,960	4.316	58	45	38	29	20	13	8	29	36	km 586 = 1000m
587,040	4.330	51	39	31	20	12	7	4	30	43	
587,120	4.321	31	21	17	11	6	2	1	30	43	
587,201	4.311	32	23	19	13	7	4	3	30	43	
587,282	4.298	31	23	18	13	8	5	3	29	42	
587,362	4.276	44	34	28	21	14	9	6	29	42	
587,441	4.240	29	20	15	9	6	3	2	30	42	
587,521	4.325	29	21	17	12	8	5	4	32	44	
587,600	4.305	36	25	19	13	7	4	2	32	42	
587,680	4.314	30	21	16	10	6	3	2	31	41	
587,760	4.309	38	28	23	16	10	7	4	31	42	
587,843	4.307	35	23	19	13	7	4	3	31	43	
587,921	4.298	28	23	20	15	9	5	3	31	43	km 587 = 985m
587,999	4.305	38	30	29	24	19	13	9	32	43	
588,079	4.269	42	36	29	22	14	9	5	32	44	
588,160	4.293	25	20	19	16	13	9	7	31	43	
588,240	4.361	22	19	17	14	9	6	4	32	44	
588,320	4.264	55	42	34	24	15	11	8	32	41	
588,401	4.321	19	16	14	12	10	8	6	31	44	
588,483	4.332	23	17	15	11	8	5	4	31	45	
588,561	4.305	44	33	28	19	12	8	6	31	44	
588,639	4.286	62	46	37	25	15	10	7	31	45	
588,719	4.313	44	32	27	19	11	6	3	32	44	
588,800	4.289	51	38	30	20	12	7	4	31	45	
588,879	4.311	61	44	36	24	14	7	4	32	44	
588,962	4.313	31	27	22	15	9	4	2	32	45	km 588 = 1000m
589,041	4.286	59	44	36	22	13	7	4	31	45	
589,121	4.259	56	48	42	29	19	11	6	31	44	
589,202	4.311	64	49	39	29	19	11	6	31	44	
589,281	4.284	44	34	29	22	14	9	6	32	47	
589,358	4.321	23	22	18	13	9	6	4	32	45	
589,440	4.319	47	31	21	11	4	1	1	32	43	
589,523	4.292	33	28	23	15	8	5	3	32	43	
589,600	4.278	58	42	32	20	10	6	4	32	44	
589,680	4.262	44	38	34	27	19	13	9	32	44	
589,760	4.251	63	50	44	35	26	19	13	32	41	
589,840	4.244	37	28	26	21	16	12	8	31	42	
589,920	4.305	42	26	18	10	6	3	2	32	41	km 589 = 980m
590,001	4.305	41	28	21	14	8	4	2	32	42	
590,081	4.291	20	14	12	10	8	7	5	31	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 442,9 ao km 445,6 / km 470,4 ao km 597,0					DATA: fev/2007
PISTA:	Dupla / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
590,160	4.275	37	28	24	19	14	10	7	32	41	
590,240	4.264	57	40	31	21	14	10	7	31	38	
590,322	4.318	51	36	27	15	10	7	5	32	43	
590,403	4.392	28	18	14	8	5	3	2	32	38	
590,480	4.323	55	34	24	14	6	4	3	31	37	
590,560	4.294	53	38	29	18	11	6	4	31	41	
590,642	4.300	59	41	24	13	8	5	3	31	42	
590,721	4.357	15	13	11	8	5	3	2	32	40	
590,800	4.293	46	37	28	18	11	6	4	32	42	
590,883	4.319	41	33	27	20	13	8	6	32	43	
590,960	4.317	37	31	25	18	11	6	3	32	42	km 590 = 1000m
591,040	4.314	40	30	26	18	12	7	5	32	40	
591,121	4.282	39	29	24	19	14	10	6	31	41	
591,201	4.273	28	20	17	13	9	6	4	31	40	
591,281	4.287	36	26	20	14	9	7	4	31	41	
591,362	4.319	24	18	16	12	8	6	4	31	40	
591,440	4.298	72	52	39	25	14	8	5	32	40	
591,518	4.233	92	68	52	34	18	8	4	32	41	
591,599	4.233	122	94	69	45	22	9	4	31	41	
591,680	4.301	51	37	27	17	9	5	4	31	36	
591,759	4.265	64	46	34	22	13	8	5	31	39	
591,842	4.311	66	47	35	23	14	8	6	31	43	
591,920	4.373	61	44	32	21	12	7	5	32	44	km 591 = 970m
592,001	4.351	51	37	31	22	14	10	7	32	44	
592,081	4.357	40	29	22	13	7	5	4	32	41	
592,081	4.343	39	28	21	13	7	5	4	31	41	
592,159	4.280	46	32	23	14	7	4	3	31	39	
592,239	4.316	59	44	33	21	13	9	6	31	41	
592,321	4.305	60	46	36	25	16	11	8	32	41	
592,401	4.357	33	24	20	15	10	7	5	31	42	
592,482	4.303	23	18	15	11	8	5	3	32	44	
592,562	4.309	20	16	14	10	7	5	3	32	44	
592,640	4.356	31	22	17	11	6	4	3	32	43	km 592 = 1000m
593,040	4.318	33	26	22	18	13	10	7	32	43	início de ponte km 592,727
593,120	4.309	49	34	26	17	10	7	5	32	33	fim de ponte km 593,012
593,200	4.614	24	23	21	12	8	5	3	26	29	
593,280	4.683	24	19	17	13	9	6	4	26	31	
593,360	4.682	19	15	13	10	8	6	4	27	31	
593,440	4.594	71	53	36	21	12	8	6	27	32	
593,521	4.685	10	7	7	6	5	4	3	26	33	
593,601	4.659	9	7	6	6	5	4	3	26	31	
593,682	4.607	28	22	20	16	12	9	6	27	30	
593,762	4.554	38	29	24	17	11	6	4	26	33	
593,842	4.600	43	35	28	21	14	10	8	26	31	
593,922	4.626	18	14	12	10	7	4	3	26	33	km 593 = 1000m
594,001	4.576	46	35	28	19	12	8	5	27	32	
594,082	4.629	16	13	12	11	9	8	6	27	26	
594,160	4.633	11	8	8	6	5	4	3	27	30	
594,240	4.565	48	39	34	26	19	13	9	26	30	
594,321	4.567	25	21	19	16	13	10	7	26	29	
594,402	4.565	29	25	22	17	12	7	5	26	28	
594,482	4.616	24	23	20	12	8	5	3	26	29	
594,560	4.534	38	28	22	15	9	5	3	26	32	
594,641	4.587	25	18	14	10	6	3	2	25	31	
594,721	4.605	29	22	18	12	7	4	2	26	30	
594,800	4.546	73	53	43	28	17	11	7	26	31	
594,881	4.538	48	38	28	17	7	3	1	26	26	
594,960	4.570	54	39	29	17	10	7	6	27	31	km 594 = 1000m
595,040	4.570	20	17	15	12	8	6	4	27	34	
595,121	4.567	52	40	33	24	15	9	6	26	26	
595,201	4.596	41	31	25	17	9	7	5	27	31	
595,281	4.567	46	31	22	13	8	6	4	27	25	
595,360	4.500	57	40	28	15	8	6	4	26	25	
595,439	4.605	25	17	13	9	5	3	2	27	24	
595,519	4.544	54	41	31	22	13	8	6	27	24	
595,600	4.555	40	30	25	16	11	7	5	27	25	
595,680	4.509	70	50	37	22	11	7	4	27	30	
595,760	4.540	29	20	16	10	5	4	3	28	26	
595,842	4.584	35	22	17	10	5	3	2	27	25	
595,921	4.498	52	33	17	6	2	1	1	27	24	km 595 = 970m
596,001	4.567	53	31	16	7	1	1	1	25	26	
596,080	4.635	47	34	23	12	6	4	3	25	26	

Pesquisas e Estudos de Viabilidade de PPP – Sistema Rodoviário Federal Minas Gerais
PROJETO BR 040

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597,0 ao km 773,4						DATA: fev/2007			
PISTA: Multivia / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
597,040	4.538	46	32	24	13	5	2	1	25	33	
597,119	4.590	14	10	8	5	3	2	1	26	30	
597,201	4.493	48	35	27	18	10	5	3	25	37	
597,282	4.422	78	65	52	36	23	14	8	25	36	
597,362	4.440	78	60	47	30	17	9	4	26	36	
597,441	4.516	53	41	29	13	7	5	4	25	37	
597,523	4.487	70	54	43	28	17	11	7	25	35	
597,602	4.500	57	42	35	26	17	11	7	26	35	
597,680	4.453	81	62	40	24	12	6	3	25	34	
597,759	4.507	80	60	46	28	16	9	6	26	34	
597,839	4.444	76	58	46	28	18	11	7	26	36	
597,918	4.542	25	18	14	10	6	4	3	27	38	
598,001	4.528	32	25	22	16	12	8	5	27	37	km 597 = 1092m
598,079	4.534	35	25	20	13	8	6	4	27	37	
598,160	4.528	30	24	20	16	11	8	5	27	36	
598,239	4.482	47	35	26	17	10	7	5	26	34	
598,319	4.487	49	39	32	23	13	9	5	27	36	
598,399	4.442	70	55	44	30	19	12	7	27	34	
598,480	4.525	23	17	15	11	7	5	4	27	37	
598,561	4.496	43	33	29	21	13	9	7	28	38	
598,641	4.480	73	43	25	12	6	4	3	28	35	
598,719	4.579	28	23	19	13	7	4	3	27	35	
598,800	4.583	57	42	32	18	11	7	5	28	35	
598,881	4.432	51	35	25	12	6	3	2	28	36	
598,962	4.509	42	29	23	11	7	4	3	28	36	km 598 = 1000m
599,041	4.583	36	26	20	13	8	4	3	28	37	
599,119	4.502	42	29	21	12	6	3	2	28	37	
599,201	4.468	50	36	26	14	8	4	3	28	38	
599,282	4.557	50	35	26	13	7	4	2	27	36	
599,359	4.555	42	28	20	12	7	4	3	28	38	
599,439	4.489	41	27	18	9	4	3	2	28	38	
599,519	4.500	46	28	18	9	4	2	2	28	38	
599,601	4.566	63	47	34	17	11	7	5	27	38	
599,681	4.482	66	46	30	20	12	8	5	28	37	
599,760	4.540	32	24	18	11	6	2	1	28	39	
599,842	4.517	40	27	20	12	5	2	2	29	38	
599,922	4.539	67	50	37	24	15	8	5	28	36	km 599 = 1000m
600,001	4.487	43	35	30	24	18	13	9	28	40	
600,082	4.444	55	41	31	22	14	10	6	29	39	
600,160	4.584	45	33	24	12	8	5	3	29	38	
600,241	4.472	65	47	38	23	12	7	4	29	38	
600,323	4.509	48	35	25	17	9	6	4	29	33	
600,399	4.485	65	49	39	24	15	10	6	29	35	
600,479	4.512	35	25	21	13	8	5	4	28	35	
600,563	4.473	57	42	33	21	12	8	6	28	32	
600,641	4.413	63	48	33	21	15	10	7	28	32	
600,720	4.519	43	27	17	10	7	5	4	29	30	
600,800	4.482	59	43	33	19	11	6	4	29	32	
600,879	4.497	58	45	32	21	11	7	5	28	36	
600,961	4.455	69	51	41	26	14	8	5	29	27	km 600 = 1000m
601,041	4.446	83	56	38	17	11	7	5	29	24	
601,120	4.481	82	65	52	34	18	11	6	28	28	
601,200	4.422	78	57	38	22	12	7	4	27	34	
601,281	4.487	61	49	40	29	16	10	6	28	40	
601,360	4.498	56	36	26	15	7	4	3	28	40	
601,441	4.527	38	27	19	11	5	3	2	28	39	
601,523	4.476	63	42	30	17	11	7	4	27	39	
601,601	4.475	70	50	38	23	13	10	7	29	38	
601,679	4.442	68	50	38	26	16	10	7	29	35	
601,760	4.417	73	53	43	30	20	14	9	28	35	
601,840	4.469	66	51	38	27	16	11	7	29	35	
601,921	4.387	74	50	37	21	12	7	4	28	33	km 601 = 1000m
602,000	4.417	63	43	27	19	9	5	4	28	33	
602,081	4.457	53	35	17	9	5	3	2	28	32	
602,158	4.466	52	37	23	11	4	2	1	27	38	
602,241	4.536	35	24	18	9	4	2	2	28	36	
602,322	4.486	48	32	24	15	7	4	3	27	36	
602,403	4.454	43	31	22	13	8	4	3	28	38	
602,480	4.514	29	22	18	12	6	3	2	28	36	
602,559	4.498	44	28	17	9	5	3	2	27	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
602,640	4.511	31	23	18	11	6	3	2	28	34	
602,719	4.487	45	31	22	10	4	1	1	28	33	
602,801	4.460	46	31	23	13	5	2	1	28	35	
602,881	4.487	52	36	27	11	6	2	2	28	36	
602,961	4.444	52	37	25	15	7	3	2	28	35	km 602 = 1000m
603,040	4.278	73	55	45	30	16	10	7	33	44	
603,120	4.294	54	43	33	22	13	7	5	33	45	
603,200	4.309	65	47	37	24	12	7	4	32	45	
603,280	4.388	30	24	21	16	10	7	4	33	45	
603,360	4.273	101	75	59	39	22	11	7	34	39	
603,440	4.282	89	69	54	33	20	12	9	33	44	
603,520	4.254	73	58	50	34	20	11	7	32	37	
603,601	4.393	36	29	25	19	13	8	4	33	40	
603,679	4.380	47	34	28	16	8	6	4	33	45	
603,760	4.308	45	35	30	22	15	10	8	33	45	
603,841	4.307	14	12	11	10	8	6	5	33	45	
603,921	4.280	18	15	14	12	9	7	5	33	45	km 603 = 1000m
604,000	4.290	15	12	11	9	7	5	4	33	33	
604,080	4.283	14	11	11	9	7	5	4	32	42	
604,161	4.271	13	11	10	9	7	6	4	33	45	
604,240	4.294	21	18	16	14	11	8	6	33	37	
604,319	4.287	27	19	16	13	10	8	7	33	45	
604,401	4.272	50	35	28	18	10	6	5	33	36	
604,480	4.267	38	29	24	16	10	5	4	33	35	
604,560	4.215	72	55	45	31	20	12	8	32	44	
604,640	4.251	43	33	27	19	12	7	5	33	46	
604,720	4.267	45	36	31	23	16	11	8	33	47	
604,800	4.242	47	37	31	24	16	11	7	33	48	
604,881	4.182	68	52	44	31	20	13	9	33	47	
604,960	4.247	32	23	19	14	11	8	6	32	48	km 604 = 1000m
605,041	4.228	26	19	15	11	7	5	4	33	41	
605,123	4.128	107	78	59	36	19	10	7	33	42	
605,202	4.329	31	23	19	13	9	6	4	33	46	
605,281	4.256	101	79	62	42	25	16	11	32	44	
605,360	4.314	32	24	19	14	10	7	6	33	44	
605,442	4.261	32	22	17	11	8	6	4	33	44	
605,520	4.254	40	32	28	22	16	11	8	32	39	
605,601	4.256	40	29	24	16	10	6	4	33	43	
605,680	4.303	44	32	24	16	10	6	4	34	42	
605,760	4.247	63	46	32	16	10	7	5	33	42	
605,842	4.256	42	29	22	12	8	5	4	33	45	
605,920	4.218	42	31	23	15	9	6	5	33	44	km 605 = 1000m
606,000	4.240	40	28	21	14	9	6	4	32	45	
606,080	4.261	38	26	21	14	9	6	4	33	46	
606,159	4.241	48	35	28	20	14	10	7	33	44	
606,240	4.272	43	30	23	15	8	5	4	33	45	
606,321	4.263	37	27	21	15	10	7	5	33	41	
606,401	4.243	56	40	30	19	12	8	6	33	44	
606,481	4.256	47	34	27	18	11	8	6	33	41	
606,560	4.222	48	34	26	17	9	5	4	33	45	
606,640	4.211	86	52	38	21	11	7	5	33	31	
606,719	4.240	50	37	31	23	16	11	8	33	44	
606,800	4.234	62	48	37	24	13	9	7	32	43	
606,879	4.229	68	53	39	22	13	10	8	33	31	
606,960	4.226	101	72	50	26	11	6	4	32	36	
607,040	4.286	47	35	29	20	13	8	5	33	31	
607,121	4.288	31	22	17	11	6	2	1	33	47	km 606 = 1180m
607,040	4.267	32	25	22	16	11	7	6	33	48	
607,120	4.274	18	13	11	8	6	4	2	33	46	
607,201	4.247	28	20	16	11	7	4	3	32	47	
607,280	4.249	25	18	15	10	6	4	2	33	47	
607,361	4.222	23	19	17	15	12	9	6	32	47	
607,442	4.276	47	34	27	20	14	10	7	33	47	
607,522	4.287	22	14	10	6	3	2	1	33	45	
607,602	4.294	26	17	14	9	5	3	2	33	47	
607,679	4.267	77	58	45	25	18	13	9	33	44	
607,761	4.267	23	18	16	13	10	8	6	33	46	
607,841	4.236	20	14	12	9	7	5	4	32	47	
607,919	4.253	17	12	10	7	5	4	3	33	45	
608,001	4.162	42	34	27	20	14	10	5	33	45	
608,082	4.176	27	99	15	55	14	25	8	33	45	km 607 = 1164m
608,082	4.270	26	19	17	14	11	9	8	33	45	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
608,159	4.313	14	9	8	7	6	5	4	32	49	
608,237	4.261	18	11	9	7	5	5	4	32	49	
608,319	4.236	21	15	14	10	8	6	4	33	45	
608,397	4.228	19	15	14	12	10	8	6	32	45	início de ponte 608,416
608,561	4.251	18	13	11	8	5	3	1	33	37	final de ponte 608,499
608,640	4.246	8	6	5	4	3	3	2	32	44	
608,720	4.272	14	11	10	8	6	4	3	32	44	
608,800	4.253	15	11	10	8	6	5	4	33	45	
608,881	4.289	19	14	11	8	5	3	2	33	45	
608,962	4.289	51	38	30	19	11	7	4	33	44	início de ponte km 609,063
609,040	4.243	33	27	24	19	14	9	6	33	45	final de ponte km 609,096
609,121	4.158	47	28	24	18	14	8	2	33	45	
609,201	4.172	31	97	23	47	15	25	6	33	46	km 608 = 1163m
609,039	4.290	41	30	24	15	9	5	4	33	41	
609,119	4.343	44	30	23	15	10	6	4	32	43	
609,201	4.260	42	29	22	15	9	5	4	33	42	
609,280	4.287	65	48	38	26	17	12	8	33	45	
609,362	4.284	22	19	18	16	13	10	8	33	43	
609,441	4.280	34	25	20	13	9	6	5	33	42	
609,518	4.284	26	18	14	10	6	4	3	33	42	
609,600	4.276	18	14	13	9	7	5	4	33	42	
609,678	4.233	28	20	15	9	6	4	3	32	44	início de ponte km 609,753
609,840	4.327	37	24	18	10	6	4	3	33	45	final de ponte km 609,801
609,921	4.311	47	32	23	13	7	4	3	33	44	km 609 = 1000m
610,000	4.343	30	20	16	11	7	5	3	33	43	
610,081	4.296	16	13	12	11	9	8	6	32	43	
610,160	4.300	16	12	11	9	7	5	4	33	43	
610,239	4.274	14	11	10	9	7	6	4	33	42	
610,321	4.285	54	39	33	25	17	11	7	33	43	
610,401	4.233	35	26	19	13	9	7	2	33	40	
610,479	4.290	41	30	23	15	9	5	4	33	41	
610,560	4.258	39	29	25	18	12	8	5	32	42	
610,640	4.256	47	34	26	16	10	6	4	33	39	
610,721	4.263	16	11	10	7	5	3	2	33	41	
610,800	4.307	10	8	7	6	5	4	3	32	34	
610,881	4.298	22	16	15	12	9	6	5	33	37	
610,959	4.290	18	15	14	12	9	5	4	33	40	
611,040	4.294	31	25	22	16	9	6	5	33	39	km 610 = 1100m
611,040	4.291	30	24	20	15	9	6	5	33	39	
611,121	4.267	27	20	16	11	7	4	3	33	39	
611,201	4.282	38	25	20	14	9	7	5	33	40	
611,281	4.272	13	9	9	9	8	6	4	33	40	
611,362	4.263	20	16	15	13	10	8	6	33	39	
611,440	4.292	12	9	8	7	5	3	2	32	38	
611,521	4.228	25	20	17	13	10	8	6	33	36	
611,601	4.260	18	12	10	8	6	5	4	33	37	
611,679	4.172	40	27	20	13	8	6	4	33	36	
611,760	4.239	25	20	17	12	7	5	4	33	37	
611,841	4.257	50	34	24	16	9	6	4	32	37	
611,920	4.202	35	28	25	20	15	10	7	32	36	km 611 = 1000m
612,001	4.289	62	46	37	26	16	10	7	29	37	
612,080	4.251	17	13	12	10	8	7	5	29	36	
612,160	4.287	54	40	32	23	16	11	7	29	35	
612,242	4.303	18	14	13	10	8	6	4	29	36	
612,319	4.314	19	17	16	14	12	10	8	29	36	
612,401	4.282	19	16	14	12	9	7	5	29	37	
612,480	4.287	15	12	12	10	9	7	6	29	37	
612,560	4.271	58	42	33	20	13	9	7	28	35	
612,640	4.317	13	11	10	9	7	6	4	29	37	
612,720	4.280	48	39	34	25	16	10	6	29	36	
612,799	4.261	52	39	32	23	15	10	7	28	36	
612,880	4.321	28	22	19	14	10	7	5	29	36	
612,960	4.269	27	21	17	12	8	6	4	29	36	início de ponte km 612,983
613,080	4.294	52	34	24	14	7	5	3	29	35	final de ponte km 613,032
613,163	4.276	48	30	20	11	6	4	3	28	33	km 612 = 1270m
613,040	4.271	65	46	35	23	13	9	6	28	32	início de ponte km 613,096
613,200	4.285	27	21	17	13	9	6	4	28	38	final de ponte km 613,194
613,279	4.274	32	25	22	16	11	7	4	29	36	
613,360	4.377	48	34	23	12	6	3	2	28	34	
613,440	4.303	55	38	29	19	10	5	3	28	35	
613,520	4.228	81	64	54	39	26	16	11	29	37	
613,598	4.373	68	49	33	20	12	7	6	29	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
613,681	4.260	60	44	36	26	16	10	7	28	36	
613,760	4.253	54	41	32	22	12	7	5	28	36	
613,841	4.263	47	36	31	23	15	9	6	29	36	
613,921	4.282	71	52	43	28	17	10	6	29	34	
614,000	4.265	43	29	22	12	6	2	0	29	35	
614,081	4.262	82	68	55	35	21	12	7	28	30	km 613 = 1120m
614,081	4.339	101	79	65	49	32	18	11	29	37	
614,160	4.368	39	32	27	20	14	9	7	29	37	
614,242	4.384	38	28	24	16	10	7	5	29	37	
614,319	4.274	86	76	63	46	30	18	13	29	36	
614,401	4.285	33	27	23	17	12	8	6	28	37	
614,481	4.287	63	49	39	26	15	9	6	29	36	
614,561	4.283	39	29	24	17	10	6	4	29	37	
614,640	4.307	39	30	25	18	13	10	8	29	37	
614,721	4.309	48	32	24	15	7	5	4	28	37	
614,801	4.283	27	20	16	12	7	5	4	29	34	
614,880	4.249	41	30	24	16	10	7	5	29	34	
614,960	4.298	58	49	42	32	22	16	11	29	38	km 614 = 1080m
615,040	4.231	63	47	36	21	12	7	5	28	36	
615,121	4.238	91	69	51	35	21	15	9	29	35	
615,199	4.231	92	67	52	36	24	16	9	29	36	
615,281	4.309	36	29	26	20	15	11	8	29	37	
615,360	4.307	64	44	35	21	10	7	5	28	37	
615,440	4.313	71	54	42	29	18	11	8	29	38	
615,520	4.257	54	43	34	24	14	8	6	28	37	
615,600	4.141	86	64	48	33	21	14	10	28	36	
615,679	4.263	63	49	43	30	19	12	8	29	36	
615,760	4.149	96	83	71	66	37	33	17	29	37	
615,842	4.265	27	23	21	18	14	10	7	29	38	
615,923	4.278	44	34	29	22	15	11	7	28	38	km 615 = 1080m
616,001	4.285	42	33	28	19	11	5	3	28	38	
616,080	4.204	92	64	38	31	18	12	8	29	34	
616,079	4.294	30	24	22	17	13	9	7	29	38	
616,160	4.288	33	27	25	19	12	7	5	28	37	
616,241	4.290	33	26	21	15	9	6	4	29	38	
616,321	4.253	9	8	7	6	5	5	4	29	37	
616,401	4.776	10	9	7	7	6	5	4	28	35	
616,480	4.348	12	10	9	8	7	6	5	29	33	
616,560	4.265	22	19	17	14	10	8	6	29	37	
616,640	4.267	12	10	10	9	8	7	6	29	37	
616,719	4.244	48	40	35	26	18	13	9	29	36	
616,800	4.234	34	29	27	22	18	14	10	29	36	
616,881	4.265	41	32	27	20	13	8	6	29	36	
616,959	4.261	65	50	43	33	23	14	10	28	37	km 616 = 970m
617,040	4.252	57	46	40	30	20	12	8	20	46	
617,129	4.298	43	33	28	21	14	8	5	20	47	
617,200	4.266	74	53	44	30	18	12	8	20	44	
617,282	4.249	83	63	52	34	20	12	8	20	44	
617,360	4.293	62	49	41	28	17	11	7	20	45	
617,439	4.245	57	44	37	27	17	10	5	20	46	
617,520	4.252	78	59	47	29	15	9	6	20	44	
617,600	4.207	70	53	38	25	10	5	4	20	45	
617,682	4.216	115	92	79	54	27	20	13	20	48	
617,759	4.266	120	95	77	52	32	19	11	20	43	
617,840	4.313	43	32	26	16	9	5	4	20	45	
617,921	4.286	75	57	45	28	15	7	5	20	44	
618,000	4.236	85	62	51	33	21	14	10	20	44	
618,079	4.243	75	57	47	32	20	13	9	20	44	
618,161	4.284	56	42	35	26	17	11	7	20	42	
618,238	4.239	107	83	66	44	23	14	9	20	48	km 617 = 1300m
618,079	4.298	73	50	41	28	17	11	8	20	46	inicio de ponte km 618,093
618,161	4.288	72	51	40	25	15	10	7	20	49	fim de ponte km 618,110
618,239	4.269	53	43	37	27	18	12	7	20	48	
618,319	4.223	115	87	68	40	18	10	7	20	49	
618,398	4.234	74	58	48	33	21	13	8	20	48	
618,479	4.209	109	89	77	55	35	19	10	20	45	
618,562	4.274	90	69	58	36	19	11	7	20	48	
618,642	4.135	123	97	76	49	23	13	9	20	41	
618,721	4.255	80	62	53	36	23	15	8	20	40	
618,800	4.178	126	102	87	61	35	19	11	23	48	
618,883	4.319	79	57	45	29	17	10	8	23	49	
618,960	4.274	117	88	69	43	21	10	7	23	49	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
619,040	4.259	105	76	63	39	23	12	8	23	50	km 618 = 1055m
619,040	4.290	39	28	23	15	10	6	5	23	34	
619,119	4.227	112	83	67	41	18	10	6	23	50	
619,199	4.263	101	75	60	38	19	9	6	23	48	
619,280	4.225	105	83	58	26	12	9	6	23	48	
619,361	4.171	137	121	91	60	28	16	10	23	49	
619,439	4.284	42	34	30	23	16	10	6	23	48	
619,523	4.306	13	10	10	8	6	5	4	23	34	
619,523	4.286	13	10	9	8	6	5	4	23	34	
619,599	4.264	23	19	17	14	11	9	7	23	47	
619,679	4.300	16	12	10	8	6	4	3	23	46	
619,758	4.273	22	17	15	12	9	7	5	23	40	
619,840	4.251	94	66	53	33	18	9	6	23	36	
619,920	4.280	106	79	60	38	20	11	8	23	35	
619,997	4.272	113	95	51	31	7	8	6	23	46	km 619 = 1060m
620,079	4.301	51	38	31	21	13	8	6	23	48	
620,158	4.233	86	62	44	23	10	6	5	23	47	
620,242	4.237	66	49	39	26	13	8	6	23	46	
620,319	4.185	92	68	48	30	15	8	6	23	46	
620,400	4.220	81	64	48	27	15	10	7	23	44	
620,481	4.283	116	85	62	37	18	11	8	23	47	
620,562	4.251	109	82	61	36	18	9	6	23	43	
620,640	4.247	91	66	47	25	11	6	4	23	48	
620,719	4.217	67	50	34	21	11	6	4	23	46	
620,801	4.276	96	80	56	35	16	9	6	23	43	
620,880	4.323	87	64	49	30	15	8	6	23	50	
620,961	4.196	129	95	68	41	22	13	10	23	49	km 620 = 990m
621,040	4.278	75	55	41	24	11	6	5	23	43	
621,121	4.213	76	56	39	24	9	5	3	20	39	
621,199	4.267	104	85	77	37	25	13	8	20	39	
621,281	4.220	98	73	57	34	21	11	7	20	44	
621,363	4.215	121	92	73	47	23	13	8	20	46	
621,442	4.235	67	49	32	21	12	7	5	20	47	
621,518	4.247	103	76	55	32	16	9	0	20	44	
621,601	4.220	83	67	51	37	20	11	7	20	48	
621,680	4.263	108	88	77	54	33	19	11	20	36	
621,759	4.283	100	72	57	32	18	10	7	20	44	
621,840	4.265	86	63	47	24	12	8	5	20	47	
621,922	4.292	42	31	26	18	10	6	4	20	46	
621,999	4.240	69	54	46	34	22	13	8	20	47	
622,080	4.159	93	71	56	33	16	9	6	20	47	km 621 = 1080m
622,079	4.249	93	72	56	35	19	11	7	20	42	
622,158	4.198	94	75	65	36	22	10	7	20	45	
622,240	4.260	89	72	58	40	24	14	9	20	37	
622,319	4.250	55	44	38	29	21	11	7	20	32	
622,399	4.188	124	99	80	55	30	17	10	20	45	
622,480	4.207	124	100	83	58	34	20	11	20	48	
622,560	4.227	121	103	86	58	33	18	11	20	47	
622,639	4.202	110	87	65	36	19	11	8	20	46	
622,721	4.215	82	66	57	42	26	13	8	20	45	
622,802	4.157	119	91	75	47	27	17	11	20	44	
622,879	4.159	108	79	60	36	18	8	6	20	41	
622,960	4.256	81	57	43	26	12	7	5	20	44	
623,041	4.249	64	46	37	24	13	8	5	20	44	km 622 = 1060m
623,040	4.209	98	73	51	22	11	5	4	20	41	
623,119	4.270	38	29	23	14	8	4	3	20	37	
623,200	4.220	110	81	66	39	15	9	7	20	44	
623,281	4.194	101	75	56	34	17	8	4	20	44	
623,359	4.228	88	64	52	37	22	11	6	20	44	
623,439	4.216	89	69	57	41	25	13	7	20	45	
623,520	4.196	109	87	67	42	21	9	4	20	44	
623,600	4.183	153	122	98	67	33	16	9	20	36	
623,681	4.264	97	65	47	24	10	5	4	20	35	
623,759	4.208	123	97	77	48	24	9	6	20	45	
623,840	4.253	71	49	37	19	7	4	4	20	45	
623,921	4.232	100	83	69	45	26	15	10	20	34	km 623 = 960m
624,081	4.188	161	122	95	61	33	14	6	20	46	
624,162	4.237	109	79	64	44	25	12	5	20	46	
624,240	4.228	114	85	67	38	17	7	3	20	46	
624,321	4.257	104	77	62	38	17	7	4	20	47	
624,399	4.228	124	100	83	57	33	20	13	20	47	
624,479	4.189	107	89	75	54	31	20	13	20	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007
PISTA:	Multivia / Crescente					FAIXA:	2				
SENTIDO:	DF/MG					ENSAIO:	a cada 80 m				
624,562	4.224	94	75	64	45	28	17	11	20	48	
624,640	4.334	64	49	41	30	18	11	8	20	46	
624,719	4.356	46	35	29	21	14	8	5	20	46	
624,801	4.313	56	44	37	27	16	11	8	20	46	
624,882	4.257	75	53	40	25	14	10	8	20	44	
624,959	4.216	111	87	72	53	29	15	9	20	45	
625,042	4.217	114	93	75	46	27	17	11	27	45	km 624 = 1060m
625,040	4.269	46	37	33	25	17	11	6	27	47	
625,123	4.345	15	11	9	6	4	2	1	27	35	
625,199	4.294	39	29	23	16	10	6	4	27	33	inicio pista simples km 625,268
625,279	4.296	57	39	29	18	12	7	6	31	45	
625,359	4.354	38	31	28	22	16	10	6	32	46	
625,439	4.254	90	75	60	46	28	13	8	32	45	
625,519	4.249	75	56	45	31	15	7	5	32	44	
625,599	4.504	48	31	22	13	7	4	2	26	30	
625,679	4.460	37	25	20	14	9	6	4	25	31	
625,759	4.527	32	22	17	11	7	5	3	25	32	inicio de ponte km 625,852
625,839	4.525	38	27	22	16	11	7	5	25	31	final de ponte km 625,912
626,000	4.138	135	104	79	50	32	22	15	27	42	final de pista simples km 626,000
626,079	4.199	105	83	75	55	34	22	15	27	37	km 625 = 1120m
626,079	4.153	163	130	107	64	31	16	10	27	44	
626,161	4.259	66	48	40	27	14	8	5	27	45	
626,240	4.255	73	52	42	29	18	12	9	27	40	
626,319	4.205	136	94	68	42	26	17	12	27	33	
626,403	4.266	109	85	66	40	22	14	9	27	33	
626,475	4.178	151	109	80	39	16	8	6	27	42	
626,560	4.237	114	81	65	43	25	11	8	27	41	
626,641	4.275	44	33	28	18	11	7	5	27	41	
626,719	4.286	45	32	26	17	11	7	5	27	39	inicio de ponte km 626,810
626,896	4.259	26	19	16	11	7	5	3	27	35	final de ponte km 626,867
626,962	4.230	102	82	68	45	28	17	10	27	40	km 626 = 1020m
627,040	4.262	53	43	37	20	13	8	6	27	42	
627,121	4.191	98	72	51	28	16	10	7	27	40	
627,200	4.248	91	69	55	36	23	15	11	20	33	
627,280	4.214	98	70	55	34	20	12	7	20	37	
627,359	4.313	128	92	70	40	20	12	8	-273	38	
627,439	4.302	69	51	42	30	18	9	7	-273	41	
627,519	4.269	103	78	61	35	21	12	8	-273	40	
627,600	4.180	166	126	94	58	28	18	12	20	37	
627,682	4.261	105	85	72	46	23	14	9	313	39	
627,760	4.208	97	75	58	36	17	10	6	20	42	
627,840	4.289	114	81	58	36	20	12	8	20	41	
627,919	4.290	101	76	55	30	17	11	8	-566	41	km 627 = 960m
628,079	4.244	117	90	70	46	30	15	10	-273	37	
628,160	4.286	89	206	53	110	38	51	14	-273	37	
628,240	4.276	84	56	43	21	9	6	4	-273	37	
628,321	4.320	42	31	24	14	6	3	3	20	39	
628,401	4.163	41	132	22	67	28	32	10	-273	34	
628,481	4.260	67	41	26	12	4	3	3	20	34	
628,559	4.257	121	92	73	46	23	13	7	-273	35	
628,640	4.264	123	102	86	61	40	28	20	-273	34	
628,719	4.232	96	73	62	39	18	11	7	313	36	
628,801	4.237	115	85	66	38	14	7	5	20	34	
628,881	4.281	79	58	46	31	16	10	7	-273	37	
628,961	4.251	54	40	30	18	10	7	5	20	32	km 628 = 1050m
629,040	4.255	35	24	20	14	9	7	6	-273	41	
629,132	4.280	38	29	24	17	12	9	7	-273	35	
629,199	4.273	54	43	37	27	19	13	10	-273	35	
629,279	4.243	78	63	53	40	27	19	12	-273	37	
629,360	4.314	44	31	25	18	12	8	6	-273	36	
629,440	4.278	31	23	19	14	10	7	5	-273	33	
629,519	4.262	52	39	33	23	15	9	6	-273	33	
629,600	4.233	81	62	52	39	27	20	14	-273	35	
629,681	4.271	62	51	44	35	21	16	12	20	34	
629,760	4.284	53	39	31	21	13	10	7	20	37	
629,840	4.280	41	29	24	16	11	7	5	313	36	km 629 = 890m
630,001	4.306	50	38	31	22	15	10	7	32	41	
630,081	4.263	75	57	48	34	22	13	8	33	42	
630,160	4.259	83	80	46	42	23	21	12	32	41	
630,240	4.146	90	83	34	32	21	19	14	33	41	
630,319	4.284	58	44	32	19	11	8	6	32	41	
630,400	4.214	112	89	70	43	23	14	10	32	39	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
630,481	4.300	74	57	46	33	21	15	11	32	39	
630,560	4.260	67	48	35	21	12	8	6	32	42	
630,642	4.154	59	55	46	36	26	22	12	33	41	
630,719	4.139	68	66	49	47	22	22	12	33	40	
630,799	4.260	39	29	24	18	14	11	9	33	41	
630,882	4.113	117	106	54	44	40	26	23	32	34	
630,960	4.149	56	41	32	27	21	20	5	32	37	
631,040	4.251	50	47	33	28	16	15	7	33	44	km 630 = 1090m
631,040	4.264	48	38	32	24	17	12	8	32	44	
631,040	4.137	74	63	37	34	32	22	18	32	46	
631,121	4.157	48	46	24	17	15	11	9	32	43	
631,202	4.128	100	82	61	52	46	23	21	32	45	
631,280	4.120	99	88	57	52	44	24	22	33	45	
631,360	4.210	98	78	63	43	29	19	14	32	42	
631,441	4.183	92	74	59	40	26	17	12	33	41	
631,519	4.232	67	58	40	33	16	15	8	33	42	
631,600	4.275	66	47	37	24	13	9	7	32	41	
631,680	4.151	55	42	37	27	26	24	12	32	40	
631,761	4.262	49	36	29	20	13	8	6	32	40	km 631 = 820m
635,040	4.269	53	39	32	22	14	10	7	32	41	km 632 = km 635
635,119	4.216	75	56	44	28	15	10	8	32	40	
635,200	4.124	85	80	48	38	29	25	14	32	38	
635,280	4.237	82	63	50	32	20	13	10	33	40	
635,361	4.154	51	42	30	23	16	12	8	33	39	
635,442	4.243	91	70	53	36	20	13	9	33	38	
635,520	4.205	100	79	61	38	22	12	8	33	41	
635,600	4.167	121	100	81	53	32	20	12	32	39	
635,681	4.257	79	61	47	33	19	12	9	32	42	
635,761	4.110	100	84	62	41	40	25	17	32	41	
635,838	4.237	96	75	57	36	22	15	11	32	38	
635,919	4.140	66	52	40	37	17	12	9	32	38	km 635 = 1000m
635,999	4.325	59	45	35	24	16	12	10	32	39	km 636 = km 633
633,040	4.295	59	44	34	21	14	9	7	32	41	
633,121	4.121	87	84	69	50	40	24	19	32	39	
633,201	4.286	63	48	39	28	16	10	6	32	39	
633,278	4.233	68	50	38	25	15	10	7	32	39	
633,360	4.208	67	51	38	25	15	9	7	32	40	
633,443	4.237	55	41	33	23	16	13	10	31	36	
633,522	4.129	79	65	52	49	33	24	21	32	36	
633,600	4.261	56	42	33	22	14	11	8	31	42	
633,706	4.269	116	70	48	30	20	13	9	31	43	
633,760	4.298	70	53	43	29	17	12	9	31	42	
633,840	4.303	83	63	48	28	16	10	7	31	38	
633,920	4.239	87	70	53	32	19	11	9	31	40	km 633 = 1000m
633,999	4.267	60	45	37	27	16	10	7	31	36	km 634 = km 637
637,040	4.278	43	31	24	15	9	6	5	31	36	
637,121	4.307	43	31	24	16	11	8	6	31	40	
637,200	4.278	52	41	35	23	15	11	8	32	30	
637,280	4.316	53	41	32	20	11	7	5	31	36	
637,361	4.316	43	30	23	14	9	6	5	31	39	
637,440	4.249	54	39	30	19	11	8	6	31	40	
637,521	4.201	81	63	49	31	19	14	10	31	40	
637,601	4.242	71	56	43	28	17	12	9	31	41	
637,681	4.173	146	118	93	64	39	25	15	32	37	
637,762	4.214	117	96	77	54	34	19	12	31	39	
637,838	4.290	67	49	36	21	13	9	7	32	37	
637,921	4.300	71	52	41	26	17	12	10	32	39	km 637 = 1000m
638,002	4.284	75	63	47	29	17	11	7	31	34	
638,081	4.248	85	67	57	40	25	15	10	31	38	
638,162	4.258	58	44	34	22	12	8	6	32	37	
638,241	4.276	54	42	34	24	15	10	7	31	34	
638,321	4.194	85	69	56	37	21	12	7	31	37	
638,400	4.323	64	49	37	22	15	11	8	31	35	
638,480	4.269	68	53	42	26	18	14	11	31	33	
638,558	4.247	92	69	53	33	22	17	12	31	34	
638,640	4.294	61	47	38	25	17	13	9	31	35	
638,721	4.278	72	55	40	25	16	12	11	31	32	
638,801	4.286	63	47	31	18	10	7	6	31	35	
638,881	4.251	82	65	49	30	19	14	10	31	36	
638,961	4.350	36	27	24	19	14	11	8	32	41	km 638 = 1000m
639,040	4.289	57	43	35	24	15	10	7	31	41	
639,118	4.280	95	71	52	30	17	11	8	32	41	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
639,201	4.598	83	62	48	31	18	11	8	32	40	
639,280	4.226	103	82	59	35	18	11	7	31	40	
639,360	4.197	118	94	74	49	29	18	11	31	40	
639,440	4.292	56	42	33	20	12	9	6	32	41	
639,519	4.246	68	50	40	26	11	8	6	32	42	
639,603	4.282	68	51	40	26	16	11	8	31	41	
639,679	4.232	73	55	42	23	13	9	7	31	40	
639,760	4.244	69	53	40	24	15	10	7	31	39	
639,840	4.269	71	53	39	24	15	9	6	31	38	
639,920	4.249	69	52	42	28	18	12	8	32	38	km 639 = 1000m
640,000	4.287	46	33	25	15	10	7	6	31	40	
640,082	4.376	42	35	29	22	15	11	8	26	29	
640,160	4.325	89	70	52	30	17	12	9	26	29	
640,238	4.398	39	30	26	18	12	7	5	25	28	
640,321	4.392	56	43	35	24	14	8	6	26	24	
640,401	4.365	48	38	31	23	15	10	8	26	25	
640,481	4.371	56	43	33	20	11	8	6	25	27	
640,559	4.335	60	52	44	30	20	13	9	25	29	
640,638	4.295	83	67	51	33	20	12	8	25	30	
640,721	4.374	61	45	38	28	15	8	7	26	30	
640,801	4.395	65	50	38	23	15	11	8	26	29	
640,879	4.371	98	77	66	51	34	21	13	26	25	
640,962	4.340	73	58	49	35	24	15	9	26	30	km 640 = 1030m
641,040	4.288	115	89	74	53	33	19	12	26	30	
641,120	4.349	88	75	63	44	28	19	13	25	30	
641,201	4.277	125	108	92	67	46	30	20	26	28	
641,281	4.338	76	63	56	46	35	25	17	26	24	
641,360	4.306	67	56	43	26	16	9	6	26	26	
641,441	4.274	127	100	74	51	33	21	11	25	26	
641,521	4.359	81	65	51	32	21	14	9	25	31	
641,599	4.393	57	40	33	23	16	12	9	26	32	
641,682	4.371	70	53	40	25	15	12	9	26	32	
641,762	4.340	64	49	42	28	17	12	8	27	32	
641,840	4.313	74	59	44	26	17	12	9	26	24	
641,921	4.297	64	45	31	18	11	9	7	25	27	km 641 = 1020m
641,999	4.281	70	55	37	21	13	9	7	25	32	
642,082	4.322	72	54	35	22	14	10	7	26	31	
642,160	4.326	71	57	46	31	23	18	13	27	30	
642,240	4.346	73	55	43	26	17	11	8	26	33	
642,321	4.338	57	44	32	22	14	10	8	27	32	
642,402	4.371	41	34	29	22	15	10	6	27	32	
642,480	4.361	57	41	34	24	13	8	7	26	32	
642,560	4.340	49	35	27	17	11	8	6	27	31	
642,640	4.342	36	27	23	17	12	9	8	27	32	
642,721	4.337	43	34	23	15	8	7	6	26	32	
642,801	4.329	30	22	18	13	8	5	3	26	29	
642,881	4.378	33	25	21	15	10	6	4	27	32	
642,960	4.346	33	24	19	13	7	4	3	27	33	km 642 = 1015m
643,040	4.324	57	43	33	21	12	9	7	27	32	
643,121	4.258	102	85	70	53	40	29	20	27	33	
643,200	4.333	52	41	32	20	12	8	6	28	33	
643,281	4.367	48	38	28	20	12	9	6	27	26	
643,361	4.380	41	31	24	13	9	7	4	27	24	
643,440	4.324	48	35	28	16	11	7	6	27	31	
643,522	4.296	54	41	31	20	13	8	6	28	32	
643,599	4.307	65	50	40	22	17	13	8	27	25	
643,679	4.324	56	40	33	22	14	9	6	27	26	
643,759	4.303	92	72	59	43	24	14	8	28	33	
643,840	4.356	59	44	33	20	11	7	4	27	33	
643,920	4.292	61	49	44	36	28	21	16	27	33	km 643 = 1015m
643,999	4.315	49	41	36	29	22	16	11	28	34	
644,083	4.321	39	32	28	23	17	12	9	28	26	
644,160	4.350	34	26	23	16	11	7	4	28	24	
644,240	4.382	52	38	26	14	8	5	3	27	33	
644,320	4.366	39	31	25	17	10	6	4	28	23	
644,401	4.307	53	40	32	22	15	11	8	28	33	
644,479	4.301	61	43	33	23	16	12	9	28	33	
644,561	4.292	40	29	23	14	9	5	4	28	34	
644,640	4.342	36	26	19	13	7	4	3	27	35	
644,721	4.339	36	26	19	10	7	5	4	28	35	
644,800	4.350	32	23	19	13	7	4	3	28	34	
644,883	4.323	32	24	20	13	8	5	4	29	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
644,962	4.280	72	53	42	24	15	10	8	28	34	km 644 = 1020m
645,040	4.317	57	48	38	28	17	12	8	28	34	
645,119	4.334	54	42	36	27	18	13	9	27	34	
645,202	4.282	64	51	34	19	13	9	7	27	34	
645,279	4.310	43	32	23	13	8	5	2	28	34	
645,358	4.244	61	46	37	24	15	9	6	28	34	
645,442	4.271	71	54	41	27	16	10	7	27	26	
645,522	4.298	41	28	20	11	7	6	4	27	25	
645,600	4.325	46	36	27	16	10	8	6	27	32	
645,680	4.341	51	41	35	19	10	8	6	28	27	
645,760	4.364	70	51	41	29	19	12	8	28	37	
645,840	4.325	58	43	31	18	11	7	6	28	36	
645,923	4.292	52	38	30	17	10	6	5	27	32	
645,999	4.368	53	42	34	24	15	11	8	27	27	km 645 = 1040m
646,082	4.287	58	44	36	24	16	11	8	28	36	
646,160	4.280	67	50	37	25	16	9	6	28	34	
646,240	4.314	61	47	37	24	16	11	8	27	36	
646,322	4.298	86	65	49	32	20	14	9	27	34	
646,403	4.343	39	28	22	16	11	7	5	27	35	
646,481	4.357	30	24	20	15	10	7	4	28	34	
646,560	4.352	39	29	24	16	9	6	4	28	36	
646,641	4.336	38	26	20	12	7	4	3	27	30	
646,719	4.353	33	26	22	16	11	8	5	28	37	
646,802	4.348	42	34	29	22	15	10	7	28	34	
646,880	4.332	39	31	25	18	12	9	6	27	37	
646,960	4.323	38	29	24	17	12	8	6	28	31	km 646 = 980m
647,038	4.317	44	33	27	19	12	7	2	28	31	
647,120	4.280	60	46	35	21	12	7	5	28	25	
647,199	4.321	39	30	25	17	10	6	3	27	35	
647,281	4.285	47	35	29	21	14	9	7	28	35	
647,360	4.292	48	38	32	23	15	10	7	28	36	
647,440	4.280	61	48	38	25	16	11	8	28	34	
647,520	4.285	51	40	34	25	16	10	6	27	37	
647,601	4.285	40	29	24	16	9	5	3	27	36	
647,679	4.298	57	44	36	26	17	10	6	28	37	
647,760	4.303	71	55	45	33	22	14	9	28	36	
647,840	4.271	75	58	47	30	19	12	8	28	32	
647,920	4.326	45	33	26	18	11	7	5	28	37	
647,999	4.306	54	40	33	24	16	11	7	33	43	km 647 = 1020m
648,080	4.269	66	51	40	27	17	11	7	32	43	
648,160	4.289	53	39	31	20	14	10	8	33	44	
648,240	4.291	59	45	37	24	14	9	5	32	43	
648,321	4.286	47	36	29	21	13	8	5	33	44	
648,399	4.291	45	34	28	19	12	8	5	33	45	
648,480	4.288	38	28	23	16	10	6	4	33	45	
648,559	4.294	52	38	31	22	15	11	8	33	44	inicio ponte km 648,626
648,720	4.291	63	46	36	23	12	7	5	33	47	fim ponte km 648,632
648,801	4.265	51	36	28	17	10	6	4	33	45	
648,879	4.275	62	51	40	27	16	10	7	33	37	
648,959	4.298	56	42	34	24	15	10	7	33	46	km 648 = 1010m
649,041	4.294	50	37	29	21	14	9	6	32	47	
649,119	4.199	84	65	53	37	26	18	11	33	46	
649,198	4.241	75	60	47	30	19	12	9	33	47	
649,281	4.266	59	41	29	17	9	6	4	32	46	
649,360	4.232	81	63	49	30	17	11	6	33	46	
649,440	4.262	95	76	64	46	31	20	14	33	43	
649,520	4.329	38	28	24	17	11	7	5	33	40	
649,600	4.246	73	52	40	26	15	9	7	32	44	
649,682	4.271	63	46	34	21	12	7	4	33	44	
649,762	4.275	108	85	65	43	27	17	11	32	45	
649,838	4.292	97	76	63	44	28	18	12	32	48	
649,919	4.255	86	68	54	37	24	15	10	33	45	km 649 = 1000m
650,001	4.273	81	63	47	28	15	10	7	33	44	
650,079	4.251	74	57	43	30	18	12	7	32	43	
650,161	4.287	50	36	25	16	9	6	5	32	44	
650,240	4.291	60	44	36	25	18	12	9	33	44	
650,319	4.289	45	34	28	20	14	10	7	33	45	
650,402	4.245	63	47	33	20	11	7	5	33	44	
650,482	4.248	55	40	32	22	13	7	5	32	43	
650,561	4.307	55	41	31	17	11	7	5	33	31	
650,640	4.214	76	62	53	39	27	19	13	33	45	
650,721	4.278	58	43	35	25	17	12	8	33	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
650.800	4.290	42	29	23	16	10	6	4	32	49	
650.881	4.239	37	20	15	11	8	6	5	32	48	
650.960	4.239	44	22	15	11	8	6	5	33	47	km 650 = 1000m
651.042	4.249	41	17	12	9	7	6	5	33	48	
651.121	4.267	44	23	16	11	9	7	6	32	48	
651.201	4.246	36	15	11	8	6	5	4	33	48	
651.279	4.247	36	17	10	7	5	4	3	33	48	
651.361	4.265	41	25	19	13	10	8	6	33	48	
651.440	4.273	40	23	16	11	9	7	6	32	49	
651.520	4.247	42	20	11	7	5	4	3	33	48	
651.599	4.267	43	20	12	7	4	3	3	33	48	
651.680	4.249	37	17	12	8	6	5	4	33	49	
651.759	4.260	48	28	21	15	11	9	8	32	47	
651.841	4.212	56	38	29	18	12	9	8	33	46	
651.919	4.224	47	35	30	22	16	12	9	33	47	km 651 = 1010m
651.999	4.254	55	38	28	17	9	6	5	33	46	
652.081	4.261	26	19	16	13	9	6	5	33	45	
652.159	4.249	54	41	34	25	17	11	7	32	38	
652.241	4.218	86	61	50	35	22	16	11	33	38	
652.319	4.240	56	40	32	21	12	7	4	33	33	
652.399	4.242	53	37	29	18	10	6	4	33	43	
652.479	4.233	51	37	30	20	13	8	6	32	46	
652.561	4.253	58	40	32	21	11	7	4	33	45	
652.638	4.296	42	28	23	16	10	7	5	33	49	
652.719	4.263	44	32	26	19	13	9	7	33	48	
652.800	4.265	31	19	17	14	11	9	6	32	48	
652.879	4.213	76	45	28	14	9	7	6	33	45	
652.959	4.260	43	21	13	8	5	4	4	33	43	
653.041	4.258	54	29	18	10	6	4	4	33	42	km 652 = 1060m
653.040	4.243	48	28	18	11	7	5	4	33	41	
653.122	4.260	40	30	26	18	12	8	6	32	47	
653.201	4.240	48	31	26	20	14	9	6	32	46	
653.280	4.229	45	33	28	21	15	10	7	33	44	
653.359	4.181	109	79	57	37	20	11	6	33	34	
653.441	4.226	84	65	52	33	18	10	6	33	43	
653.519	4.183	101	81	63	42	26	16	10	32	43	
653.599	4.251	52	36	28	20	13	9	6	32	48	
653.681	4.260	21	15	14	11	9	7	5	33	48	
653.760	4.281	16	10	8	7	6	5	4	32	46	
653.839	4.253	42	30	26	20	14	10	5	32	48	
653.921	4.254	27	20	18	15	12	9	7	33	45	km 653 = 1000m
654.001	4.299	20	14	13	10	8	6	5	32	49	
654.082	4.218	42	32	27	21	14	10	7	33	50	
654.162	4.238	30	17	13	10	9	8	7	33	51	
654.242	4.209	37	20	14	11	10	8	7	32	40	
654.320	4.267	44	17	12	9	7	6	5	32	40	
654.399	4.258	48	23	13	11	10	9	7	32	44	
654.480	4.278	32	17	11	8	7	6	5	32	47	
654.561	4.301	28	17	13	10	8	7	6	33	49	
654.642	4.243	61	33	20	11	9	7	6	33	48	
654.722	4.211	65	29	16	8	6	5	4	33	48	
654.801	4.227	52	36	28	17	11	7	5	33	45	km 654 = 840m
655.040	4.215	67	50	40	27	16	9	7	32	44	
655.121	4.267	68	52	39	26	17	11	8	33	38	
655.201	4.213	80	59	45	30	18	12	8	33	40	
655.281	4.233	86	69	51	33	20	13	9	33	44	
655.362	4.222	77	59	47	31	19	12	8	33	43	
655.439	4.249	63	47	36	19	11	8	6	32	31	
655.518	4.278	61	43	32	19	7	8	6	32	38	
655.600	4.355	48	35	29	21	14	10	6	32	33	
655.679	4.358	52	39	33	23	15	9	6	33	43	
655.761	4.346	25	12	10	9	8	7	6	32	34	
655.842	4.303	29	15	11	8	6	5	4	32	47	
655.920	4.278	39	17	11	8	6	5	4	32	46	km 655 = 950m
656.079	4.234	39	17	9	6	5	4	3	33	46	
656.160	4.299	19	10	7	6	5	5	4	32	46	
656.240	4.233	45	28	23	16	10	7	5	33	46	
656.318	4.231	61	45	38	29	20	14	11	33	45	
656.399	4.229	62	46	34	20	12	8	6	33	31	
656.481	4.271	65	48	34	18	11	7	5	33	30	
656.560	4.224	105	82	64	38	18	10	6	33	32	
656.641	4.233	85	66	54	36	21	12	8	32	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
656,720	4,278	68	51	39	26	14	7	4	32	43	
656,800	4,242	81	59	44	26	14	8	5	33	41	
656,879	4,249	63	45	35	22	12	7	4	33	41	
656,960	4,233	64	43	33	21	13	8	7	33	43	km 656 = 1000m
657,040	4,233	68	51	39	22	14	8	4	33	33	
657,119	4,252	60	46	37	23	15	9	5	32	36	
657,200	4,278	54	41	32	19	10	5	4	32	32	
657,283	4,241	98	70	56	36	20	11	7	32	42	
657,360	4,181	95	71	59	38	22	13	8	32	42	
657,440	4,238	55	39	32	21	12	7	4	33	37	
657,521	4,278	21	17	16	14	12	9	7	33	30	
657,600	4,276	27	22	20	17	14	11	8	33	32	
657,681	4,256	24	20	19	15	12	9	6	32	29	
657,760	4,256	21	17	16	13	11	9	7	33	28	
657,840	4,241	13	10	9	7	5	4	3	33	28	
657,923	4,254	31	23	20	15	11	7	5	33	38	km 657 = 1000m
658,001	4,254	26	19	17	14	10	7	5	33	30	
658,081	4,240	35	24	19	13	8	6	4	31	41	
658,160	4,258	24	17	15	12	8	6	5	32	41	
658,241	4,265	20	15	14	11	8	6	4	31	34	
658,321	4,294	28	22	19	14	9	6	4	31	33	
658,398	4,188	36	28	25	20	15	12	9	31	40	
658,479	4,224	43	35	31	26	20	15	11	31	36	
658,560	4,218	53	40	33	23	15	10	7	32	33	
658,641	4,265	39	26	20	14	9	6	4	31	32	
658,721	4,229	38	26	20	13	7	5	3	31	32	
658,799	4,235	32	23	19	14	9	6	5	31	37	
658,881	4,215	53	38	33	24	16	11	7	33	42	
658,962	4,261	23	17	15	12	9	6	4	31	32	km 658 = 1000m
659,043	4,245	32	24	21	16	11	8	6	31	39	
659,119	4,249	28	19	15	11	8	6	5	32	36	
659,199	4,245	56	40	32	21	15	10	7	31	35	
659,281	4,222	30	23	20	16	12	8	6	31	36	
659,361	4,202	37	25	20	16	12	9	7	31	40	
659,439	4,241	24	17	16	13	10	8	6	31	38	
659,521	4,265	22	17	15	12	9	7	5	32	31	
659,601	4,243	21	16	14	12	9	7	5	32	39	
659,681	4,235	26	18	16	13	10	8	7	31	41	
659,760	4,260	27	18	15	12	9	7	5	31	40	
659,840	4,233	53	37	29	20	13	9	6	31	41	
659,920	4,199	58	40	30	20	12	9	7	31	41	km 659 = 1000m
659,999	4,274	36	26	22	17	12	9	6	31	41	
660,082	4,238	59	42	33	23	13	9	6	31	40	
660,161	4,310	43	30	25	19	13	10	7	31	43	
660,240	4,245	66	51	42	32	22	15	11	32	37	
660,322	4,268	31	22	19	15	11	8	5	31	32	
660,399	4,301	31	24	22	18	13	10	7	31	31	
660,480	4,253	68	51	40	30	22	16	11	32	39	
660,562	4,268	13	10	9	8	7	6	4	31	35	
660,641	4,224	22	17	14	12	9	7	5	31	38	
660,720	4,250	23	19	18	15	12	9	7	31	31	
660,798	4,268	20	16	14	12	9	7	5	31	30	
660,879	4,256	29	19	15	10	6	3	2	31	40	
660,960	4,258	42	31	26	20	14	10	7	31	40	km 660 = 1000m
661,038	4,286	69	52	40	27	17	11	7	31	39	
661,119	4,261	56	43	32	19	10	7	5	32	41	
661,200	4,253	64	42	29	18	11	7	5	31	39	
661,281	4,267	60	41	30	19	11	7	5	31	40	
661,362	4,217	65	44	34	23	13	8	5	31	38	
661,440	4,200	70	48	36	23	13	8	5	31	35	
661,521	4,260	49	26	15	8	5	4	3	32	34	
661,600	4,247	59	31	17	9	5	4	3	31	32	
661,680	4,272	41	22	14	9	7	6	5	31	35	
661,762	4,272	57	33	22	15	11	8	6	31	33	km 661 = 1030m
661,840	4,306	22	15	12	10	8	7	5	31	31	inicio de ponte km 661,897
662,001	4,269	41	31	25	17	11	6	4	31	39	fim de ponte km 661,958
662,080	4,265	19	15	13	11	9	6	5	31	32	
662,160	4,283	17	14	13	11	9	7	5	32	31	
662,239	4,258	65	48	39	26	17	12	8	31	37	
662,319	4,193	65	48	37	26	17	12	9	32	36	
662,399	4,265	35	28	26	22	17	14	10	31	38	
662,481	4,272	42	32	28	21	15	11	7	31	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
662,559	4.285	41	30	25	18	13	9	7	31	37	
662,638	4.181	78	58	45	32	21	16	12	31	40	
662,721	4.269	50	34	27	19	11	7	5	32	33	
662,800	4.296	41	28	22	15	10	7	4	31	35	
662,880	4.265	42	29	23	16	10	7	5	31	38	
662,959	4.229	60	43	30	19	12	8	6	31	32	km 662 = 1000m
663,044	4.243	54	38	29	18	12	9	6	31	31	
663,121	4.229	53	36	27	17	12	8	6	30	39	
663,202	4.265	41	29	22	15	8	5	3	29	38	
663,281	4.307	24	20	20	18	15	12	9	30	38	
663,359	4.317	13	12	12	11	10	9	7	29	38	
663,440	4.251	69	46	35	23	13	7	5	29	39	
663,521	4.299	12	10	10	10	9	8	6	30	37	
663,600	4.283	16	15	14	13	11	8	6	30	38	
663,680	4.267	14	13	13	12	11	10	8	30	37	
663,760	4.267	14	12	13	12	10	9	8	31	35	
663,839	4.283	15	13	13	12	10	9	7	30	31	
663,919	4.243	15	11	10	9	7	6	4	30	34	km 663 = 1000m
664,001	4.310	26	20	18	14	10	7	5	33	45	
664,081	4.302	30	22	20	16	12	9	6	33	47	
664,160	4.307	31	25	24	20	17	13	9	33	46	
664,240	4.313	20	15	13	10	7	5	4	34	36	
664,319	4.280	35	26	22	18	13	10	7	33	45	
664,401	4.282	22	16	14	11	9	6	5	33	45	
664,481	4.320	23	17	15	12	9	6	5	33	45	
664,560	4.327	20	15	13	11	9	6	5	33	44	
664,640	4.288	18	13	12	10	8	6	4	34	44	
664,721	4.296	23	18	16	13	10	7	6	33	45	
664,800	4.286	48	38	32	24	17	12	8	33	47	
664,880	4.304	56	35	24	15	9	6	4	33	46	
664,961	4.264	39	29	24	17	11	7	5	33	36	km 664 = 1010 m
665,041	4.269	47	35	28	19	12	8	6	33	47	
665,123	4.284	43	31	24	17	11	8	6	34	47	
665,201	4.268	49	37	32	24	17	12	9	33	43	
665,282	4.295	37	28	25	21	17	13	10	32	47	
665,362	4.288	27	20	17	13	9	6	4	33	48	
665,440	4.203	84	68	58	42	28	18	12	33	48	
665,520	4.199	107	83	68	49	31	20	14	34	46	
665,599	4.196	103	77	59	36	20	13	8	33	46	
665,681	4.300	48	36	29	19	12	8	5	33	49	
665,759	4.253	67	50	41	30	20	13	9	33	48	
665,841	4.262	65	49	40	29	19	13	9	33	48	
665,920	4.218	69	53	44	32	23	16	11	33	47	km 665 = 1050 m
665,999	4.214	70	53	45	33	23	15	10	33	45	
666,080	4.230	81	62	51	37	24	15	9	33	45	
666,159	4.248	77	60	51	39	29	22	15	32	47	
666,240	4.260	77	54	45	33	22	15	10	33	46	
666,320	4.232	60	45	37	27	19	13	9	33	49	
666,401	4.234	54	38	31	21	14	9	6	33	46	
666,480	4.273	47	39	31	20	13	9	6	33	46	
666,558	4.250	32	23	20	16	12	8	6	34	42	
666,640	4.250	30	22	18	14	10	7	5	33	43	
666,719	4.293	28	21	19	15	11	9	6	33	42	
666,799	4.269	24	18	16	13	10	8	6	33	42	
666,879	4.280	46	30	21	12	6	3	2	33	43	km 666 = 1000 m
667,042	4.235	65	47	38	26	17	12	9	33	45	inicio de ponte km 666,923
667,117	4.265	77	57	45	30	17	11	7	32	44	fim de ponte km 666,999
667,201	4.266	40	28	23	16	11	8	5	33	47	inicio de ponte km 667,139
667,281	4.259	52	39	31	22	14	10	7	34	45	fim de ponte km 667,168
667,362	4.224	46	34	26	18	11	7	5	33	45	
667,440	4.248	38	27	21	14	9	7	5	33	46	
667,519	4.243	42	32	26	19	14	10	8	33	46	
667,600	4.241	22	17	16	13	10	7	6	34	46	
667,681	4.276	27	20	17	13	10	8	6	33	46	
667,760	4.248	23	17	15	12	8	6	4	33	44	
667,842	4.260	26	19	16	12	9	6	5	34	44	
667,921	4.242	28	20	18	14	11	9	7	33	43	km 667 = 1000 m
667,999	4.233	69	45	34	20	12	7	5	33	44	
668,081	4.262	42	28	21	15	10	8	6	33	44	
668,163	4.248	47	33	25	16	10	7	5	33	45	
668,240	4.220	44	29	22	14	8	6	5	33	44	
668,321	4.261	56	37	28	17	9	5	3	32	46	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
668,399	4.271	59	41	29	17	9	6	4	33	45	
668,479	4.199	67	47	37	25	16	11	8	33	47	
668,559	4.226	58	41	30	19	12	8	6	32	47	
668,638	4.220	85	61	44	27	15	10	7	33	46	
668,720	4.244	49	35	28	19	12	8	6	33	46	
668,800	4.217	89	70	60	46	33	22	14	32	46	
668,879	4.255	45	33	28	21	15	11	8	32	45	
668,960	4.265	40	29	25	19	15	11	7	32	46	km 668 = 1010 m
669,040	4.273	42	32	27	21	15	10	7	32	47	
669,120	4.284	34	25	22	17	12	9	6	33	49	
669,199	4.246	32	24	21	16	12	8	6	33	48	
669,279	4.253	42	33	29	24	18	13	9	32	46	
669,363	4.290	51	38	33	26	21	16	12	33	46	
669,440	4.271	26	18	14	11	8	6	4	33	47	
669,520	4.249	35	27	24	18	12	9	6	32	46	
669,601	4.208	68	53	42	30	19	13	8	32	47	
669,680	4.260	52	38	31	21	13	9	7	32	49	
669,761	4.212	71	53	43	30	19	13	9	33	46	
669,841	4.230	68	50	41	29	20	13	9	33	47	
669,919	4.301	58	42	33	23	14	9	6	32	48	
670,001	4.220	57	40	28	17	10	6	4	32	47	
670,081	4.244	48	35	28	21	15	11	8	32	48	
670,162	4.230	47	33	26	18	12	9	7	32	49	
670,242	4.222	69	51	41	26	16	10	6	32	48	km 669 = 1310 m
670,079	4.280	26	19	16	12	9	6	4	32	48	
670,160	4.235	28	19	16	12	8	6	4	33	49	
670,240	4.325	18	12	11	9	7	6	4	33	49	
670,320	4.282	28	20	17	13	9	5	3	33	49	
670,400	4.271	27	20	18	14	10	7	5	33	48	
670,483	4.265	19	13	12	9	7	5	3	33	49	
670,559	4.257	26	18	15	11	7	5	3	32	49	
670,640	4.262	25	20	19	16	13	10	7	32	39	
670,720	4.262	22	17	15	13	10	8	6	32	48	
670,802	4.243	41	30	25	18	12	9	6	32	46	
670,879	4.274	48	34	26	17	11	7	5	33	45	
670,960	4.240	59	39	28	18	10	6	4	33	45	km 670 = 1000 m
671,042	4.235	79	57	41	27	16	9	5	33	48	
671,120	4.229	58	43	34	23	15	10	8	32	46	
671,201	4.261	44	32	27	19	13	9	6	32	45	
671,279	4.278	18	14	14	12	9	7	6	33	33	
671,363	4.270	34	25	22	18	14	11	8	33	46	
671,440	4.266	31	23	20	16	11	9	6	32	47	
671,519	4.188	72	55	47	36	26	19	14	32	46	
671,600	4.303	23	15	13	11	9	7	6	33	47	
671,681	4.266	24	17	15	13	10	8	6	33	47	km 671 = 720 m
672,079	4.284	23	17	16	13	11	8	6	32	47	
672,160	4.173	84	61	46	30	18	10	6	32	45	
672,239	4.214	106	78	58	38	21	12	7	32	43	
672,320	4.333	60	41	30	19	12	9	5	33	45	
672,400	4.266	35	26	22	16	11	7	6	33	44	
672,481	4.221	51	34	25	17	11	8	6	33	47	
672,562	4.170	93	73	59	44	31	22	15	32	48	
672,642	4.241	72	51	40	27	17	11	8	32	48	
672,721	4.241	61	42	32	20	12	8	5	33	46	
672,800	4.231	62	44	33	21	13	8	5	33	45	
672,881	4.243	31	22	19	15	10	7	5	32	48	
672,960	4.259	42	30	26	21	15	11	8	32	46	km 672 = 1000 m
673,039	4.207	31	22	19	15	11	8	6	32	47	
673,119	4.247	41	31	26	20	15	11	8	32	47	
673,199	4.250	23	15	14	12	10	8	7	33	47	
673,279	4.237	36	26	23	19	15	11	8	33	46	
673,360	4.227	29	22	19	16	12	9	7	33	45	
673,442	4.214	36	25	21	17	13	10	7	32	46	
673,521	4.304	32	26	24	21	17	14	11	32	47	
673,601	4.237	35	26	23	19	14	10	7	32	47	
673,679	4.268	30	20	17	14	10	8	6	32	47	
673,761	4.219	45	33	28	21	16	12	9	33	46	
673,842	4.241	24	19	18	15	12	10	8	33	47	
673,918	4.207	77	63	53	34	22	14	9	33	45	km 673 = 1000 m
674,000	4.213	57	47	39	32	23	17	12	33	45	
674,078	4.233	49	37	32	24	17	12	8	32	44	
674,160	4.241	36	26	22	18	13	10	8	32	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
674,240	4,284	32	24	22	17	13	10	7	32	34	
674,320	4,277	24	17	15	12	9	7	5	32	42	
674,402	4,252	32	24	21	17	12	9	7	33	42	
674,481	4,232	32	22	19	15	11	8	6	32	37	
674,560	4,215	43	31	26	20	15	11	9	32	39	
674,639	4,202	56	44	40	33	24	17	11	32	35	
674,721	4,239	32	24	21	17	13	9	7	33	36	
674,800	4,275	51	40	36	29	22	16	11	32	41	
674,882	4,234	33	26	23	19	15	11	8	33	45	
674,960	4,237	28	20	18	14	11	9	7	32	44	km 674 = 1000 m
675,040	4,258	30	23	21	17	13	11	9	32	45	
675,120	4,234	36	26	23	18	13	10	8	32	45	
675,201	4,218	34	24	21	15	11	8	6	32	44	
675,281	4,250	31	23	21	17	13	11	8	32	44	
675,358	4,227	42	28	23	15	10	6	4	33	45	
675,440	4,184	43	32	28	21	15	10	8	33	43	
675,521	4,229	51	36	27	18	13	9	6	33	36	
675,603	4,243	30	20	17	13	9	7	5	33	43	
675,680	4,277	27	19	16	13	10	7	5	32	42	km 675 = 680 m
676,079	4,258	27	19	16	13	9	7	5	32	43	
676,161	4,265	21	14	12	10	7	5	4	32	42	
676,242	4,254	36	23	19	14	10	7	5	32	43	
676,321	4,277	18	13	12	10	8	7	5	32	36	
676,403	4,207	43	31	26	20	15	12	9	33	42	
676,480	4,264	26	18	16	12	9	6	4	32	43	
676,560	4,209	45	31	26	20	14	11	8	32	42	
676,640	4,237	23	18	17	15	13	11	9	32	43	
676,719	4,200	60	47	40	31	21	15	11	32	42	
676,799	4,211	38	29	24	18	14	10	7	32	43	
676,882	4,252	25	20	18	15	12	10	7	31	43	
676,960	4,245	22	17	15	13	10	8	6	32	45	
677,039	4,191	36	29	26	21	17	13	9	32	36	
677,119	4,195	59	45	38	28	20	14	10	32	42	
677,202	4,200	63	48	41	32	24	18	13	31	43	
677,280	4,222	44	33	30	25	20	16	12	31	43	
677,360	4,227	65	53	46	37	27	20	14	32	41	km 676 = 1360 m
677,040	4,215	52	40	35	28	21	16	12	32	42	
677,123	4,261	25	18	17	14	12	9	7	31	44	
677,200	4,194	47	35	31	24	18	13	10	31	42	
677,282	4,268	51	40	35	29	22	17	12	32	43	
677,358	4,236	36	26	23	18	13	10	8	31	39	
677,440	4,222	24	17	14	12	10	9	7	32	38	
677,519	4,249	19	14	13	11	9	7	5	32	44	
677,600	4,141	70	53	46	35	25	18	13	32	40	
677,679	4,252	31	24	21	17	13	10	8	32	40	
677,757	4,220	43	36	34	29	24	19	14	31	37	
677,842	4,243	39	27	23	17	13	10	7	31	41	
677,921	4,256	37	28	25	19	15	12	9	31	40	km 677 = 1000 m
678,003	4,248	28	21	19	15	11	9	7	31	40	
678,083	4,191	64	50	41	30	20	13	9	31	35	
678,159	4,233	41	28	23	19	14	10	7	31	36	
678,240	4,178	88	63	50	38	27	19	13	31	41	
678,321	4,225	39	30	26	20	15	11	8	31	33	
678,401	4,216	54	41	35	26	18	11	8	31	39	
678,481	4,220	47	36	30	21	11	9	7	31	31	
678,560	4,256	26	20	18	14	11	8	6	32	31	
678,639	4,243	21	15	13	10	7	5	4	31	35	
678,720	4,256	31	24	22	18	13	10	7	31	32	
678,803	4,236	55	40	33	26	19	13	9	31	39	
678,882	4,260	30	19	12	10	8	7	5	31	42	
678,961	4,241	31	21	17	14	12	10	8	31	43	km 678 = 1000 m
679,042	4,225	45	31	24	19	16	13	10	31	38	
679,119	4,249	42	32	26	22	15	12	8	31	42	
679,199	4,252	23	16	14	12	10	8	7	32	41	
679,279	4,238	36	27	23	19	15	11	8	31	42	
679,361	4,237	29	23	19	16	12	9	7	31	39	
679,442	4,216	36	25	22	17	13	10	7	31	41	
679,522	4,305	33	27	24	21	18	14	11	31	41	
679,602	4,238	36	27	24	19	14	10	7	31	41	
679,679	4,269	31	20	17	14	11	8	6	31	42	
679,762	4,239	45	33	28	21	16	12	9	31	41	
679,841	4,242	24	19	18	15	12	10	8	31	39	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
679,919	4.208	77	63	54	34	23	14	9	31	38	km 679 = 1000 m
680,001	4.265	75	56	45	33	22	15	10	28	36	
680,081	4.267	50	32	22	13	7	4	3	28	34	
680,160	4.243	78	57	43	28	18	12	8	29	31	
680,240	4.265	68	50	41	30	22	16	12	29	35	
680,319	4.290	27	18	13	8	5	3	2	28	31	
680,403	4.263	56	35	23	14	9	6	5	28	37	
680,481	4.279	33	22	16	10	7	5	4	28	34	
680,560	4.223	55	35	27	18	13	9	6	29	44	
680,638	4.215	81	57	43	27	18	12	8	28	35	
680,721	4.258	51	36	28	18	12	9	7	27	45	
680,799	4.193	112	83	63	43	29	19	12	28	34	
680,879	4.267	53	40	34	25	18	13	9	28	30	
680,961	4.180	95	74	62	43	29	18	12	28	43	km 680 = 1000 m
681,039	4.218	75	61	53	40	27	19	12	27	35	
681,119	4.256	41	35	30	23	15	10	7	27	45	
681,201	4.298	30	23	20	15	11	7	5	28	39	
681,279	4.245	56	42	34	24	16	12	9	27	47	
681,362	4.268	57	42	34	25	18	13	10	28	39	
681,441	4.236	72	52	43	32	23	16	11	28	45	
681,519	4.215	69	56	47	32	19	12	8	28	45	
681,599	4.232	58	43	34	22	13	8	6	27	44	
681,680	4.234	46	36	30	21	13	8	6	28	43	
681,760	4.247	42	30	24	16	10	6	4	28	43	início ponte km 681,851
681,838	4.180	105	79	61	39	22	13	8	28	41	fim ponte km 681,888
681,921	4.189	65	48	40	28	20	14	10	27	41	km 681 = 1000 m
682,001	4.218	95	72	58	40	29	21	14	28	36	
682,081	4.211	65	45	31	20	13	9	7	28	37	
682,162	4.247	41	28	22	15	11	8	7	28	43	
682,240	4.220	63	45	35	24	16	11	7	27	38	
682,319	4.237	69	45	34	23	15	10	7	28	41	
682,402	4.223	53	38	30	21	15	11	8	28	43	
682,481	4.241	64	44	32	19	11	7	5	28	42	
682,559	4.170	110	81	64	43	26	17	11	28	41	
682,640	4.263	35	24	18	11	7	4	3	27	33	
682,719	4.250	41	26	18	11	6	4	2	28	39	
682,799	4.216	58	39	29	18	12	8	5	28	39	
682,881	4.198	61	41	30	19	12	8	6	28	44	
682,961	4.241	52	32	23	14	7	4	3	27	34	
683,042	4.215	62	42	31	21	15	11	8	28	43	
683,123	4.211	61	46	37	27	19	14	9	28	43	km 682 = 1150 m
683,040	4.216	85	65	53	36	25	18	12	29	40	
683,120	4.236	63	43	33	22	13	9	6	27	41	
683,201	4.252	39	27	23	17	12	9	6	27	32	
683,280	4.263	40	27	21	14	9	6	4	28	35	
683,359	4.254	55	38	28	18	12	8	6	28	35	
683,442	4.256	52	34	25	16	10	6	4	28	36	
683,520	4.207	111	82	61	41	26	16	10	28	33	
683,599	4.270	66	48	37	27	19	13	9	28	34	
683,679	4.256	52	36	27	18	12	8	6	28	37	
683,760	4.268	44	35	30	23	17	12	9	28	41	
683,839	4.194	77	52	38	24	13	8	6	29	33	km 683 = 1000 m
684,001	4.278	73	47	29	17	9	5	4	33	48	
684,082	4.301	84	58	42	26	15	9	6	34	51	
684,163	4.211	113	85	67	46	30	19	12	33	49	
684,240	4.297	54	39	28	17	11	8	6	33	49	
684,320	4.270	68	47	34	21	12	7	5	34	50	
684,401	4.250	69	49	38	24	15	9	6	33	49	
684,482	4.274	71	48	36	21	11	8	5	33	48	
684,560	4.240	105	81	65	45	29	19	12	34	48	
684,638	4.230	91	62	46	29	18	11	8	33	49	
684,719	4.293	44	31	26	21	14	9	6	33	47	
684,799	4.226	76	55	43	29	17	9	6	33	46	
684,881	4.237	65	49	41	30	20	12	7	34	47	
684,961	4.244	69	51	42	30	19	12	8	34	48	km 684 = 1010 m
685,040	4.228	67	49	40	27	16	10	7	33	47	
685,118	4.230	75	57	46	29	15	8	5	33	47	
685,202	4.250	70	52	42	28	15	9	6	33	47	
685,281	4.269	61	41	33	23	13	7	4	34	47	
685,362	4.242	59	46	37	25	16	11	8	33	45	
685,438	4.234	82	63	53	38	21	13	8	33	46	
685,518	4.215	56	43	36	27	18	12	8	33	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
685,599	4.230	67	49	40	25	15	9	6	33	43	
685,681	4.270	62	45	37	26	16	10	6	33	43	
685,760	4.270	40	31	26	21	15	11	8	33	44	
685,840	4.198	88	65	52	29	17	12	8	34	46	
685,920	4.243	87	63	47	24	13	8	6	33	45	km 685 = 1000 m
686,001	4.273	31	20	15	12	9	7	5	33	44	
686,079	4.313	39	27	23	16	11	7	5	33	42	
686,160	4.270	35	25	21	16	12	8	6	33	44	
686,242	4.277	39	29	25	19	14	9	6	34	44	
686,320	4.276	33	23	19	14	9	6	5	33	43	
686,401	4.303	19	12	11	10	8	7	6	33	45	
686,481	4.258	42	29	23	16	9	5	4	33	48	
686,558	4.305	14	8	5	5	4	4	3	33	49	
686,639	4.266	39	28	21	14	8	5	3	33	51	
686,721	4.232	51	38	32	24	16	11	7	33	50	
686,800	4.232	60	41	32	22	15	11	9	33	51	
686,879	4.209	53	39	34	25	18	13	9	34	51	
686,959	4.264	39	26	20	12	8	6	5	33	50	km 686 = 1010 m
687,040	4.237	37	24	18	12	8	6	5	33	48	
687,119	4.291	19	12	10	8	7	5	4	33	47	
687,201	4.262	22	15	12	11	9	7	6	34	47	
687,280	4.260	42	30	23	17	11	8	5	33	48	
687,362	4.280	23	15	13	10	8	6	5	33	39	
687,438	4.280	26	18	14	11	9	6	5	33	48	
687,520	4.220	71	55	47	37	26	16	11	34	47	
687,601	4.311	18	10	8	7	6	6	5	33	50	
687,683	4.258	24	15	12	10	8	6	5	33	49	
687,760	4.300	18	10	8	7	6	5	4	33	49	
687,840	4.274	31	20	14	9	7	5	4	33	47	
687,922	4.238	26	14	11	8	6	5	4	33	48	km 687 = 1000 m
688,001	4.268	34	22	17	12	9	7	5	33	47	
688,079	4.286	23	14	10	7	5	4	3	32	47	
688,162	4.283	23	13	9	7	5	4	3	33	48	
688,241	4.263	32	19	14	10	7	6	4	33	48	
688,321	4.258	24	15	11	8	6	4	4	33	50	
688,399	4.282	36	22	16	12	9	7	5	32	51	
688,481	4.255	30	17	11	7	5	4	3	33	49	
688,560	4.230	39	26	21	16	12	9	6	33	48	
688,640	4.258	45	30	22	14	10	7	5	32	48	
688,720	4.258	41	28	22	16	12	9	7	32	48	
688,799	4.214	50	36	29	21	15	10	7	32	49	
688,880	4.244	39	26	18	13	9	7	4	32	48	
688,960	4.249	31	19	15	11	8	6	5	33	48	km 688 = 1000 m
689,043	4.235	29	19	15	12	9	8	6	32	48	
689,119	4.217	51	34	24	14	8	6	5	33	48	
689,200	4.255	26	15	12	9	6	5	4	33	50	
689,281	4.242	26	15	11	8	7	5	4	33	49	
689,361	4.242	31	19	15	10	7	5	4	33	49	
689,441	4.210	38	24	19	14	10	7	5	33	49	
689,520	4.226	53	36	24	15	10	7	5	33	50	
689,599	4.294	34	20	16	11	8	6	5	32	52	
689,680	4.226	71	47	32	20	12	8	6	33	50	
689,761	4.238	32	18	13	8	6	5	4	33	50	
689,840	4.246	34	20	13	9	7	5	4	33	52	
689,919	4.238	29	17	12	8	5	4	3	33	52	km 689 = 1000 m
690,001	4.230	31	18	11	7	5	4	3	33	51	
690,081	4.268	26	14	10	7	5	4	3	33	52	
690,159	4.225	32	20	14	10	8	6	5	32	51	
690,241	4.226	36	25	19	14	11	8	6	33	51	
690,321	4.305	20	11	8	6	5	4	3	33	51	
690,401	4.253	30	18	13	9	6	5	4	33	50	
690,482	4.242	31	18	14	10	8	6	5	33	51	
690,560	4.249	30	22	18	13	10	8	7	32	52	
690,641	4.235	62	46	34	22	12	8	5	32	51	
690,721	4.266	43	29	18	11	7	6	4	32	50	
690,800	4.251	28	18	14	10	7	5	4	32	51	
690,881	4.260	37	26	19	13	8	5	2	32	51	
690,960	4.244	41	27	21	14	9	6	4	33	51	km 690 = 1000 m
691,040	4.230	43	28	20	12	7	4	3	33	51	
691,120	4.260	35	23	18	12	8	5	4	32	46	
691,199	4.269	30	18	14	10	6	4	3	32	42	
691,282	4.239	38	23	18	12	7	5	4	32	51	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
691,358	4.256	28	18	14	10	7	5	4	33	51	
691,439	4.230	29	19	14	9	6	4	3	33	50	
691,519	4.253	41	28	21	14	9	6	4	32	50	
691,601	4.224	59	43	33	21	10	7	5	32	49	
691,679	4.244	61	44	35	25	17	11	8	32	50	início ponte km 691,737
691,840	4.269	55	36	25	14	9	6	5	33	49	fim ponte km 691,776
691,920	4.237	52	35	26	16	10	7	6	33	48	km 691 = 1030 m
692,001	4.250	39	25	18	10	8	7	6	33	47	
692,080	4.258	31	19	15	10	7	5	4	33	47	
692,158	4.246	62	39	26	16	11	8	6	32	46	
692,240	4.226	73	51	36	23	16	12	9	32	47	
692,322	4.199	77	55	42	30	21	16	12	32	46	
692,404	4.267	44	30	23	16	11	9	7	33	47	
692,480	4.235	62	40	26	14	9	7	5	33	47	
692,561	4.262	40	29	22	15	10	7	6	33	47	
692,643	4.224	60	42	32	22	14	9	7	33	42	
692,718	4.274	33	23	17	11	8	7	5	33	45	
692,801	4.239	26	18	16	13	10	8	6	33	49	
692,879	4.235	34	22	15	10	7	6	5	33	48	
692,960	4.213	48	33	24	16	10	8	6	33	48	km 692 = 1030 m
693,042	4.215	90	66	48	29	16	10	7	33	48	
693,120	4.248	65	45	31	19	13	10	8	33	47	
693,199	4.241	51	35	27	18	12	10	8	32	48	
693,281	4.274	39	28	22	15	11	8	6	32	49	
693,360	4.225	68	49	37	24	14	9	6	32	47	
693,441	4.215	67	46	33	22	14	10	8	32	48	
693,519	4.230	62	44	33	24	18	15	12	32	48	
693,599	4.266	55	38	28	18	11	8	6	32	48	
693,682	4.205	64	47	35	24	17	12	9	33	42	
693,760	4.242	43	31	23	14	9	7	5	33	47	
693,842	4.108	131	108	91	69	45	30	19	33	48	
693,919	4.257	56	45	37	27	20	16	12	33	50	km 693 = 1025 m
694,003	4.292	29	16	12	8	5	4	3	32	47	
694,081	4.284	64	46	34	23	16	12	9	33	48	
694,162	4.248	45	29	20	11	8	7	5	33	49	
694,242	4.285	49	33	23	14	10	8	7	32	50	
694,321	4.269	47	29	17	10	6	5	4	33	50	
694,403	4.258	49	31	19	11	8	7	6	33	49	
694,479	4.303	31	21	16	11	8	6	5	33	40	
694,560	4.226	48	30	19	10	7	6	5	33	49	
694,639	4.223	59	40	27	15	10	7	6	33	46	
694,718	4.237	48	33	24	14	9	7	6	33	48	
694,802	4.251	39	25	18	12	8	6	5	32	47	
694,881	4.224	63	46	36	24	15	10	7	33	48	
694,958	4.240	31	20	16	12	9	7	6	33	47	km 694 = 1000 m
695,040	4.201	59	40	31	20	13	10	8	32	47	
695,119	4.211	63	45	33	22	14	10	8	32	46	
695,201	4.242	61	41	28	17	11	8	6	32	46	
695,279	4.246	70	49	38	23	15	10	7	32	46	
695,361	4.185	67	51	37	25	17	12	8	32	46	
695,443	4.228	58	42	32	21	14	10	7	32	47	
695,524	4.226	52	34	27	19	12	9	7	32	47	
695,600	4.217	60	41	31	21	15	11	9	32	46	
695,600	4.219	57	39	30	20	14	11	9	32	46	
695,681	4.253	45	30	22	14	9	7	5	32	45	
695,760	4.241	46	31	24	16	11	9	7	32	45	
695,840	4.203	75	52	39	25	16	12	9	32	39	
695,920	4.219	77	53	38	24	16	11	8	32	44	km 695 = 1040 m
695,997	4.237	29	24	22	19	16	12	9	33	45	
696,079	4.208	71	50	38	25	17	13	9	33	45	
696,162	4.264	62	40	27	17	10	8	6	32	38	
696,242	4.248	55	38	28	18	12	10	8	33	46	
696,322	4.254	45	31	24	17	12	10	7	33	46	
696,399	4.262	37	23	18	12	9	7	6	33	46	
696,480	4.242	37	24	18	12	8	7	6	33	46	
696,558	4.256	48	32	22	12	7	6	5	32	45	
696,640	4.226	57	35	24	14	10	7	5	32	44	
696,720	4.251	47	30	20	12	8	6	5	33	46	
696,800	4.248	52	33	21	12	8	6	5	33	36	
696,879	4.226	58	41	29	16	11	9	7	33	45	
696,958	4.256	50	35	24	14	9	7	5	32	46	km 696 = 1000 m
697,038	4.264	47	32	22	12	8	6	5	32	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
697,040	4.510	17	32	25	18	11	6	5	35	32	
697,120	4.465	40	32	25	18	11	6	5	35	32	
697,200	4.452	50	32	25	18	11	6	5	35	32	
697,282	4.483	48	32	25	18	11	6	5	35	32	
697,360	4.414	41	32	25	18	11	6	5	35	32	
697,441	4.435	39	32	25	18	11	6	5	35	32	
697,521	4.434	37	32	25	18	11	6	5	35	32	
697,602	4.440	41	32	25	18	11	6	5	35	32	
697,682	4.424	37	32	25	18	11	6	5	35	32	
697,760	4.398	46	32	25	18	11	6	5	35	32	
697,840	4.416	45	32	25	18	11	6	5	35	32	
697,920	4.455	30	32	25	18	11	6	5	35	32	km 697 = 1000 m
697,999	4.410	34	32	25	18	11	6	5	35	32	
698,081	4.410	37	32	25	18	11	6	5	35	32	
698,160	4.430	16	32	25	18	11	6	5	35	32	
698,240	4.424	29	32	25	18	11	6	5	35	32	
698,319	4.407	29	32	25	18	11	6	5	35	32	
698,400	4.390	27	32	25	18	11	6	5	35	32	
698,482	4.395	29	32	25	18	11	6	5	35	32	
698,560	4.390	28	32	25	18	11	6	5	35	32	
698,639	4.422	27	32	25	18	11	6	5	35	32	
698,722	4.397	21	32	25	18	11	6	5	35	32	
698,801	4.386	23	32	25	18	11	6	5	35	32	
698,881	4.411	18	32	25	18	11	6	5	35	32	
698,962	4.390	25	32	25	18	11	6	5	35	32	km 698 = 1000 m
699,041	4.396	33	32	25	18	11	6	5	35	32	
699,040	4.361	38	26	22	15	11	7	5	21	25	
699,121	4.361	25	19	16	13	10	8	6	22	25	
699,203	4.354	28	22	20	16	12	9	7	22	25	
699,279	4.345	25	18	17	13	10	8	6	22	25	
699,362	4.347	23	17	14	11	8	7	5	22	25	
699,438	4.359	20	14	12	10	7	6	5	23	25	
699,519	4.348	23	16	14	10	8	6	4	22	25	
699,600	4.341	27	22	17	13	10	7	5	22	25	
699,679	4.352	26	18	15	12	9	7	5	22	26	
699,758	4.354	31	24	20	14	9	7	5	22	25	
699,840	4.338	39	26	22	15	11	8	6	22	25	
699,922	4.338	46	36	29	21	13	9	6	22	25	km 699 = 1000 m
700,001	4.384	61	50	40	31	20	14	9	23	25	
700,094	4.444	23	17	15	11	8	6	5	22	24	
700,160	4.456	19	13	11	8	6	5	4	22	25	
700,240	4.444	32	25	21	15	10	7	5	22	25	
700,322	4.445	16	10	8	5	4	4	3	22	25	
700,400	4.426	21	16	14	11	8	7	5	22	25	
700,479	4.440	21	15	12	9	7	6	5	22	26	
700,559	4.413	22	16	14	11	9	7	6	23	27	
700,641	4.404	54	45	40	33	27	22	17	22	27	
700,719	4.429	34	27	23	19	15	11	9	23	27	
700,800	4.445	20	16	14	12	10	8	6	23	26	
700,879	4.416	44	32	27	21	15	12	9	24	26	
700,961	4.412	39	31	27	22	18	15	12	24	27	km 700 = 1000 m
701,041	4.420	28	19	14	9	6	5	4	24	27	
701,123	4.417	28	19	15	10	6	5	4	24	26	
701,199	4.389	23	18	15	11	7	5	4	23	26	
701,279	4.381	25	19	17	13	10	8	6	24	26	
701,360	4.416	19	13	11	7	5	3	1	24	27	
701,440	4.433	19	13	9	5	3	2	2	24	27	
701,519	4.394	18	12	8	5	3	3	2	23	27	
701,600	4.396	29	21	17	13	9	6	5	24	26	
701,681	4.392	26	15	10	6	3	3	2	24	26	
701,761	4.394	34	26	23	19	15	12	8	24	26	
701,842	4.369	30	26	24	17	13	10	8	24	26	
701,920	4.370	36	29	25	20	16	13	10	23	27	km 701 = 990 m
702,001	4.394	26	21	17	13	10	9	4	24	27	
702,081	4.365	31	24	21	17	13	10	8	23	26	
702,160	4.388	23	16	12	9	7	6	5	24	27	
702,240	4.378	22	16	13	9	7	6	5	24	26	
702,321	4.349	27	20	16	12	9	7	6	24	26	
702,401	4.384	19	12	8	6	5	5	4	23	26	
702,480	4.337	38	30	26	21	18	15	11	24	27	
702,560	4.386	23	18	16	13	11	9	7	24	27	
702,641	4.359	40	36	31	22	14	9	6	24	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597,0 ao km 773,4				DATA: fev/2007					
PISTA: Multivia / Crescente		FAIXA: 2									
SENTIDO: DF/MG		ENSAIO: a cada 80 m									
702,721	4.348	25	18	15	11	8	7	5	24	27	
702,801	4.357	34	26	22	12	8	6	4	24	27	
702,881	4.353	23	21	18	13	10	8	6	23	28	
702,960	4.336	28	23	19	14	10	7	5	23	28	km 702 = 990 m
703,041	4.350	27	22	18	14	10	8	6	23	27	
703,120	4.354	20	15	13	10	7	6	4	23	27	
703,200	4.341	40	32	26	18	12	9	7	24	28	
703,279	4.352	24	19	16	13	10	7	6	24	28	
703,360	4.413	23	18	15	12	8	6	2	24	27	
703,440	4.397	21	18	16	13	11	9	6	24	27	inicio ponte km 703,493
703,601	4.396	17	13	11	9	6	5	3	23	25	fim ponte km 703,520
703,683	4.374	21	16	14	11	8	6	4	24	25	
703,762	4.376	20	14	12	9	6	4	3	24	28	
703,840	4.326	30	23	20	16	12	9	7	24	25	
703,921	4.387	34	27	23	17	12	9	6	24	25	km 703 = 990 m
704,002	4.379	32	25	21	16	11	7	5	24	27	
704,081	4.375	32	24	20	15	11	8	6	24	28	
704,161	4.376	31	23	20	15	11	8	6	24	28	
704,242	4.321	58	46	39	31	22	16	11	24	29	
704,319	4.356	37	29	25	20	15	11	8	24	30	
704,400	4.373	34	25	21	16	11	8	6	24	31	
704,481	4.348	28	21	18	13	9	7	5	25	30	
704,559	4.321	36	27	22	16	11	7	6	24	29	
704,641	4.362	44	34	29	22	15	10	8	24	29	
704,720	4.323	58	52	44	33	24	18	12	25	29	
704,799	4.360	25	20	18	15	12	10	6	25	31	
704,878	4.341	43	33	28	22	16	11	8	25	31	
704,960	4.340	40	29	24	17	12	8	5	25	31	km 704 = 960 m
705,040	4.361	37	26	21	15	11	7	5	25	31	
705,121	4.361	24	18	16	13	10	8	6	25	30	
705,203	4.354	28	22	20	16	12	9	7	25	30	
705,279	4.345	24	18	16	13	10	8	6	25	31	
705,362	4.347	22	16	14	11	8	7	5	24	31	
705,438	4.359	20	14	12	10	7	6	5	25	30	
705,519	4.348	22	16	13	10	8	6	4	25	29	
705,600	4.341	28	21	17	13	10	7	5	25	30	
705,679	4.352	26	18	15	12	9	7	5	25	30	
705,758	4.354	31	23	19	14	9	7	5	25	30	
705,840	4.338	37	26	21	15	11	8	6	25	31	
705,922	4.338	48	36	29	21	13	9	6	25	31	km 705 = 930 m
706,079	4.381	25	17	14	1	7	6	4	25	31	
706,159	4.370	26	20	16	12	9	7	5	25	31	
706,240	4.316	31	23	19	14	11	8	6	25	31	
706,320	4.341	42	32	27	20	14	10	7	25	31	
706,401	4.333	32	24	20	16	11	8	6	26	30	
706,481	4.330	24	19	16	12	9	7	5	25	33	
706,559	4.334	22	15	12	9	6	5	3	26	33	
706,638	4.346	28	20	16	12	9	6	4	25	33	
706,719	4.318	28	20	16	12	8	5	4	25	33	
706,800	4.327	28	20	15	11	7	5	4	25	33	
706,880	4.352	24	17	14	10	7	5	4	25	32	km 706 = 920 m
707,040	4.318	23	17	13	10	6	4	3	25	32	
707,121	4.332	29	22	19	15	11	8	6	25	32	
707,201	4.325	33	26	22	18	14	10	7	26	31	
707,279	4.354	21	16	13	10	7	5	4	26	32	
707,360	4.335	20	14	12	9	7	5	5	25	32	
707,441	4.345	23	17	14	10	7	6	4	26	32	
707,521	4.352	24	17	15	11	8	6	5	26	32	
707,599	4.343	24	17	13	10	7	5	4	26	32	
707,681	4.330	22	15	13	9	7	6	4	26	32	
707,760	4.338	24	17	14	10	7	6	5	25	33	km 707 = 830 m
708,079	4.348	39	30	25	20	15	11	9	25	33	
708,162	4.317	32	24	20	15	11	8	6	26	34	
708,241	4.330	33	25	21	16	12	9	7	26	33	
708,323	4.357	24	17	15	11	7	5	4	26	33	
708,400	4.325	20	15	13	10	8	6	5	26	35	
708,482	4.330	30	21	17	12	8	6	4	25	34	
708,560	4.295	34	25	20	14	10	7	6	26	33	
708,643	4.327	25	17	13	9	7	5	4	25	34	
708,720	4.303	24	16	14	10	9	8	6	26	34	
708,800	4.296	25	19	16	13	11	9	7	26	34	
708,879	4.322	18	11	8	6	5	4	3	26	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
708,960	4.301	20	12	9	6	4	3	2	26	33	km 708 = 1010 m
709,042	4.314	23	16	12	8	6	5	3	26	34	
709,119	4.338	25	19	16	11	7	4	3	25	34	
709,202	4.305	29	20	15	10	6	4	4	26	35	
709,280	4.357	18	14	12	9	7	6	5	26	35	
709,362	4.311	42	29	24	17	12	9	6	25	35	
709,440	4.309	20	14	11	8	6	5	4	26	36	
709,520	4.321	27	21	18	14	11	8	6	26	36	
709,600	4.321	35	28	24	20	15	11	8	26	36	
709,679	4.284	39	30	25	18	12	7	4	25	36	
709,760	4.317	31	24	21	17	14	11	8	26	35	início ponte km 709,803
709,840	4.303	40	31	27	21	16	13	10	26	35	fim ponte km 709,829
709,919	4.296	40	31	26	18	12	8	6	26	34	km 709 = 920 m
710,079	4.287	22	15	12	9	7	6	5	26	34	
710,158	4.314	20	14	11	8	6	5	4	26	34	
710,240	4.298	69	54	45	34	22	12	7	25	34	início ponte km 710,255
710,321	4.340	22	16	14	11	8	6	4	26	35	fim ponte km 710,301
710,402	4.305	25	18	15	12	9	7	5	27	36	
710,479	4.298	32	26	22	17	13	11	8	26	34	
710,560	4.316	21	17	15	12	10	7	4	27	35	
710,640	4.302	26	19	16	12	9	7	3	27	34	
710,723	4.309	24	18	16	12	10	8	6	27	34	
710,800	4.327	22	16	13	9	6	4	3	27	34	
710,880	4.317	22	15	12	8	5	4	3	26	34	km 710 = 945 m
711,040	4.298	31	22	15	8	4	3	2	27	35	
711,119	4.309	29	21	16	10	6	5	4	27	36	
711,199	4.300	23	17	14	10	7	5	4	28	35	
711,281	4.313	33	24	19	14	11	8	7	27	35	
711,360	4.313	27	19	15	10	7	5	2	27	37	
711,440	4.280	63	49	40	26	20	15	11	28	35	
711,520	4.309	37	28	24	17	12	9	7	28	36	
711,599	4.313	25	16	13	8	5	3	3	27	36	
711,680	4.294	30	24	21	18	14	11	8	28	37	
711,760	4.271	43	35	31	25	20	15	11	28	36	
711,838	4.271	36	26	22	16	12	10	9	28	37	km 711 = 895 m
712,079	4.305	22	15	12	9	7	6	5	28	36	
712,161	4.294	33	24	19	13	9	7	5	28	37	
712,240	4.345	24	18	14	9	6	4	3	27	36	
712,320	4.311	32	23	19	13	8	6	5	28	37	
712,400	4.305	25	18	15	11	7	5	4	28	38	
712,480	4.309	20	14	11	8	5	4	3	28	36	
712,561	4.301	24	17	13	9	7	5	4	28	36	
712,640	4.311	17	12	9	6	5	4	3	28	34	
712,721	4.309	22	16	13	9	6	5	4	28	36	
712,799	4.319	21	15	13	9	7	6	5	28	35	
712,879	4.311	27	19	15	10	6	4	4	27	36	km 712 = 900 m
713,040	4.294	28	18	14	9	6	5	4	28	35	
713,122	4.301	16	10	8	6	4	3	2	28	35	
713,198	4.296	19	13	11	7	5	4	3	28	36	
713,278	4.288	25	18	15	10	7	5	4	28	36	
713,360	4.317	24	17	13	9	5	4	3	28	36	
713,440	4.305	19	14	12	8	5	4	3	28	35	
713,520	4.325	18	13	10	8	6	5	4	27	37	
713,601	4.312	38	29	24	18	14	11	8	28	37	
713,682	4.288	21	15	12	10	8	7	6	28	34	
713,758	4.282	35	28	23	18	13	9	7	28	38	
713,842	4.278	30	23	19	15	11	8	6	28	38	
713,920	4.305	26	18	15	11	8	6	4	28	39	km 713 = 950 m
714,040	4.292	39	30	26	21	16	12	8	28	38	
714,120	4.282	37	28	22	14	9	5	2	28	40	
714,200	4.292	26	18	15	13	11	10	8	28	40	
714,280	4.282	52	37	30	21	15	11	7	28	41	
714,360	4.265	38	27	22	16	11	8	6	29	39	
714,440	4.309	30	21	17	12	8	6	4	29	39	
714,519	4.290	31	21	16	10	6	4	3	28	40	
714,601	4.307	28	18	14	10	7	5	4	29	39	
714,682	4.294	22	15	13	10	8	6	5	29	40	
714,760	4.303	31	24	20	16	13	10	8	29	39	
714,839	4.325	21	16	15	12	10	7	5	29	38	km 714 = 930 m
715,040	4.296	20	15	13	10	8	6	5	29	38	
715,119	4.300	23	15	13	9	6	5	3	29	38	
715,199	4.316	26	20	17	13	10	7	5	29	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
715,279	4.289	28	22	19	15	11	8	6	29	37	
715,359	4.260	22	16	15	13	11	9	7	29	38	
715,439	4.289	30	22	17	13	10	8	7	29	38	
715,519	4.289	29	19	16	12	10	8	6	30	38	
715,598	4.253	61	43	33	22	12	7	5	29	37	
715,679	4.267	46	36	32	26	21	17	13	30	38	
715,759	4.251	49	37	31	23	17	12	8	30	39	
715,838	4.240	72	55	46	36	28	21	15	29	39	
715,919	4.287	22	15	13	9	6	5	4	30	40	km 715 = 920 m
716,079	4.305	24	15	11	8	7	6	5	30	40	
716,160	4.298	26	17	13	10	8	7	5	30	40	
716,240	4.262	31	21	16	11	9	7	5	29	40	
716,320	4.280	26	17	12	9	8	7	5	29	41	
716,401	4.269	28	20	17	13	11	9	6	30	40	
716,479	4.289	24	16	13	9	7	5	4	29	39	
716,560	4.273	27	18	14	11	9	8	6	30	40	
716,642	4.271	30	15	11	8	7	6	5	29	42	
716,720	4.296	38	25	20	15	11	9	6	30	42	
716,802	4.284	24	15	11	9	7	7	5	29	42	
716,881	4.289	31	17	15	12	11	10	9	29	42	km 716 = 935 m
717,040	4.290	28	19	13	10	8	8	6	30	41	
717,120	4.311	24	16	12	9	8	7	6	29	42	
717,203	4.287	26	19	15	12	10	8	6	29	43	
717,281	4.265	29	19	14	11	10	9	7	30	42	
717,362	4.278	26	18	14	11	9	7	5	30	42	
717,440	4.286	34	23	16	11	8	7	5	29	43	
717,524	4.269	37	21	18	15	11	7	5	29	45	
717,601	4.265	19	12	7	5	4	4	4	29	43	
717,679	4.282	24	12	7	4	4	3	3	30	42	
717,761	4.262	20	17	14	12	10	9	7	30	42	
717,840	4.294	17	11	7	5	4	4	3	30	42	km 717 = 905 m
718,079	4.260	33	25	20	16	12	10	8	29	45	
718,160	4.265	32	21	15	10	8	6	5	30	46	
718,238	4.319	23	15	12	8	7	5	4	30	45	
718,321	4.284	26	17	12	8	6	5	4	29	44	
718,399	4.300	24	15	10	7	5	5	4	30	44	
718,480	4.292	30	19	14	10	7	5	3	30	45	
718,559	4.292	33	22	17	13	11	10	8	30	44	
718,640	4.296	23	15	12	9	7	6	5	30	43	
718,722	4.289	22	13	9	7	5	4	3	30	43	
718,803	4.325	27	18	14	10	9	8	7	29	44	
718,882	4.294	19	11	8	5	5	4	4	30	43	km 718 = 950 m
719,040	4.261	23	15	11	8	6	5	5	29	44	
719,121	4.260	26	17	13	9	7	6	5	29	44	
719,201	4.274	25	17	13	10	8	7	6	29	45	
719,281	4.294	25	17	14	11	9	7	4	30	44	
719,360	4.282	27	20	17	14	11	10	8	30	43	
719,443	4.247	25	16	14	11	9	8	7	30	44	
719,519	4.263	28	19	15	12	10	9	7	29	43	
719,601	4.256	36	23	17	11	8	7	5	29	44	
719,679	4.263	26	18	14	9	7	6	5	30	45	
719,760	4.233	33	24	20	16	13	10	8	29	46	
719,840	4.267	27	18	14	9	7	6	5	30	46	
719,918	4.290	25	16	12	8	6	5	4	30	46	km 719 = 920 m
720,079	4.273	24	16	11	7	6	6	5	30	46	
720,160	4.269	26	13	8	5	5	5	4	30	46	
720,240	4.289	19	11	8	6	5	5	4	30	45	
720,320	4.241	27	16	12	8	7	6	5	30	45	
720,401	4.261	28	18	13	9	7	7	6	29	45	
720,480	4.276	24	14	9	6	5	5	4	30	44	
720,561	4.274	24	15	11	8	7	6	5	30	44	
720,641	4.305	22	13	9	6	5	5	4	30	45	
720,719	4.260	21	12	8	5	5	4	4	29	45	
720,800	4.273	33	19	14	11	10	9	8	30	46	
720,880	4.251	24	16	12	8	7	6	5	29	47	km 720 = 930 m
721,040	4.244	20	17	16	13	11	9	7	30	48	
721,119	4.219	31	24	20	15	11	9	7	30	48	
721,201	4.275	30	21	17	13	10	8	6	30	47	
721,282	4.258	19	13	9	7	6	5	4	30	46	
721,360	4.244	21	12	9	7	5	5	4	29	47	
721,440	4.255	28	16	12	9	8	8	7	29	46	
721,522	4.269	23	14	11	8	7	7	6	30	46	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
721,601	4.262	26	16	12	9	7	6	5	30	46	
721,680	4.271	30	17	12	8	7	6	4	30	45	
721,758	4.291	22	13	9	6	5	5	4	31	46	início ponte km 721,766
721,838	4.276	30	17	11	9	8	7	6	31	46	fim ponte km 721,784
721,919	4.266	27	17	13	9	8	7	6	31	46	km 721 = 935 m
722,079	4.278	29	21	18	14	11	10	8	31	44	
722,160	4.257	30	18	14	11	9	8	6	31	45	
722,237	4.269	25	15	11	8	6	5	4	32	44	
722,319	4.265	28	17	13	9	8	7	6	32	46	
722,403	4.246	26	16	12	8	7	7	6	31	46	
722,481	4.244	25	16	13	10	8	8	7	32	46	
722,560	4.253	22	13	10	7	6	6	5	32	46	
722,640	4.241	20	14	12	9	8	8	7	31	47	
722,721	4.253	24	14	10	7	6	5	4	31	45	
722,801	4.277	25	16	11	8	7	6	5	31	46	
722,881	4.261	28	18	15	11	9	8	7	31	46	km 722 = 910 m
723,040	4.250	27	15	11	7	6	5	4	32	47	
723,123	4.266	26	15	10	7	6	6	5	32	48	
723,200	4.226	27	19	15	11	8	7	6	32	48	
723,281	4.259	17	10	9	8	7	6	5	33	49	
723,361	4.249	12	7	7	6	6	5	4	32	49	
723,439	4.253	26	14	10	7	6	6	5	32	48	
723,522	4.271	23	14	10	7	5	5	4	32	48	
723,599	4.303	23	16	13	10	8	7	6	32	48	
723,680	4.257	25	14	11	8	7	6	5	32	48	
723,759	4.273	19	11	8	6	5	5	4	32	49	
723,842	4.269	19	11	8	6	5	4	4	32	48	
723,921	4.259	25	17	13	10	9	8	6	32	46	km 723 = 920 m
724,079	4.259	23	14	10	7	6	5	4	32	46	
724,159	4.237	31	21	16	11	9	8	7	33	45	
724,240	4.252	27	18	14	11	9	8	7	33	45	
724,321	4.251	26	17	13	9	9	8	7	32	48	
724,402	4.267	25	15	9	6	5	5	4	33	48	
724,481	4.250	28	18	13	9	7	6	5	33	48	
724,561	4.230	31	21	15	11	10	8	5	33	49	
724,638	4.253	21	13	8	6	5	4	3	32	48	
724,722	4.226	21	12	9	6	5	4	3	32	48	
724,801	4.257	24	13	9	5	4	4	4	32	48	
724,882	4.289	22	14	9	5	4	4	3	32	49	km 724 = 920 m
725,040	4.275	32	15	9	6	4	4	3	32	48	
725,120	4.309	28	15	10	7	6	5	4	33	48	
725,199	4.286	37	19	11	8	6	5	4	32	48	
725,280	4.251	29	16	11	8	7	6	5	32	49	
725,359	4.245	38	21	14	11	10	8	7	32	48	
725,441	4.269	27	16	12	10	9	8	6	33	49	
725,521	4.277	31	18	12	9	8	7	5	32	49	
725,601	4.278	29	15	10	7	6	6	5	33	49	
725,681	4.241	32	19	13	10	8	7	6	32	49	
725,760	4.241	35	18	10	7	6	6	5	33	49	
725,840	4.262	28	16	10	8	7	6	5	33	48	km 725 = 905 m
726,079	4.272	29	16	11	9	9	8	7	33	48	
726,160	4.265	33	22	15	10	8	6	5	33	48	
726,238	4.319	24	15	12	8	7	5	4	32	49	
726,320	4.284	25	17	12	9	6	5	4	33	49	
726,399	4.300	24	16	10	8	5	5	4	33	48	
726,480	4.292	30	19	14	10	7	5	3	33	49	
726,560	4.292	34	23	17	13	11	10	8	33	49	
726,640	4.296	23	15	12	10	7	6	5	32	48	
726,720	4.289	23	14	9	8	5	4	3	33	49	
726,800	4.325	28	18	14	11	9	8	7	33	49	
726,880	4.294	19	12	8	6	5	4	4	33	48	km 726 = 900 m
727,040	4.427	24	15	11	8	6	5	4	28	34	
727,119	4.432	22	17	15	12	9	7	5	28	24	
727,200	4.417	13	8	7	5	4	4	3	28	35	
727,282	4.416	16	10	7	5	4	4	3	27	35	
727,361	4.443	14	10	9	8	6	5	4	28	34	
727,442	4.391	21	15	11	7	6	5	4	28	34	
727,522	4.384	23	18	15	12	10	8	7	28	35	
727,601	4.398	15	10	8	5	4	4	3	29	36	
727,679	4.385	15	11	9	7	6	6	5	28	39	
727,760	4.413	16	11	9	7	6	5	4	28	38	
727,841	4.384	15	10	8	6	4	4	3	28	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
727,919	4.363	12	8	6	5	4	4	3	29	26	km 727 = 920 m
728,079	4.372	16	11	8	6	5	5	3	28	35	
728,161	4.372	20	13	10	7	5	5	4	29	38	
728,240	4.374	22	14	10	7	6	5	4	29	39	
728,321	4.408	22	15	11	9	7	6	5	28	38	
728,400	4.392	25	17	13	10	8	7	5	28	38	
728,481	4.368	23	16	13	10	8	7	5	28	39	
728,560	4.358	37	27	23	19	16	13	10	29	41	
728,644	4.379	17	12	10	8	7	6	5	29	41	
728,721	4.356	21	15	11	8	7	5	4	29	40	
728,799	4.389	24	16	12	8	6	5	4	29	40	
728,882	4.374	26	15	10	7	6	5	5	29	40	km 728 = 950 m
729,040	4.321	22	14	10	7	6	5	4	29	40	
729,121	4.379	27	16	12	8	7	6	5	28	40	
729,199	4.377	23	14	10	7	6	6	5	29	41	
729,280	4.366	26	18	14	10	8	7	5	29	42	
729,360	4.379	23	13	8	5	4	4	3	29	42	
729,439	4.354	22	15	11	9	8	7	6	30	41	
729,521	4.349	24	13	10	7	6	5	4	29	41	
729,603	4.345	20	13	10	8	7	6	5	29	40	
729,679	4.320	20	14	10	8	6	5	4	29	40	
729,761	4.394	20	13	10	7	6	5	4	30	40	
729,840	4.352	24	13	11	8	7	6	5	30	41	km 729 = 910 m
730,080	4.346	24	16	11	8	6	6	5	30	39	
730,160	4.344	21	14	11	8	7	6	5	30	38	
730,242	4.309	50	37	29	20	14	10	7	29	39	
730,321	4.319	25	15	10	7	5	5	4	29	39	
730,400	4.344	27	14	10	7	5	5	4	29	40	
730,480	4.364	27	16	12	9	8	8	7	29	41	
730,560	4.330	19	11	7	6	5	5	4	29	41	
730,642	4.339	20	13	9	6	5	5	4	30	41	
730,721	4.332	21	14	10	8	7	6	5	29	41	
730,800	4.332	15	9	6	5	4	3	3	30	42	
730,880	4.334	16	11	8	6	6	5	4	30	41	
730,960	4.358	20	12	9	7	6	5	5	30	42	km 730 = 920 m
731,040	4.303	21	14	10	8	7	6	5	29	42	
731,121	4.294	19	12	9	7	6	5	4	30	43	
731,202	4.325	27	18	13	9	7	5	4	30	45	
731,281	4.314	33	23	18	14	11	8	6	29	43	
731,362	4.296	52	32	22	17	14	12	9	29	43	
731,443	4.294	32	17	12	9	8	7	6	30	41	
731,521	4.267	46	31	25	21	18	15	12	30	43	
731,603	4.284	35	17	10	6	5	4	3	29	44	
731,682	4.333	22	13	9	6	5	4	3	29	44	
731,760	4.331	27	17	12	9	8	7	6	29	44	
731,842	4.376	25	15	11	8	6	6	4	29	44	
731,922	4.343	25	17	13	10	8	7	5	30	43	km 731 = 950 m
732,079	4.385	23	14	9	5	2	2	1	31	41	
732,161	4.366	22	15	11	7	5	3	2	31	41	
732,242	4.342	22	16	12	8	7	7	6	32	41	
732,323	4.367	19	13	10	8	7	6	5	31	41	
732,402	4.348	22	15	11	7	6	5	5	31	42	
732,481	4.357	27	16	12	9	9	8	7	32	44	
732,561	4.326	28	16	12	8	7	6	5	31	45	
732,641	4.326	31	18	13	10	9	8	7	31	43	
732,721	4.317	33	18	12	7	5	4	3	31	43	
732,803	4.355	22	13	8	6	4	4	4	31	41	
732,881	4.344	25	17	13	10	8	7	6	31	32	km 732 = 900 m
733,040	4.317	36	23	18	14	12	11	9	31	36	
733,120	4.367	21	13	9	7	6	5	4	31	42	
733,199	4.350	21	14	11	8	7	6	5	30	41	
733,280	4.329	50	36	25	18	13	10	7	31	45	
733,360	4.349	28	17	12	9	8	7	6	30	45	
733,439	4.338	30	18	13	10	9	8	7	31	45	
733,519	4.320	29	21	16	12	10	7	5	31	46	
733,601	4.319	32	18	13	10	9	8	7	31	46	
733,681	4.281	31	21	16	13	11	10	9	31	45	
733,760	4.338	21	13	10	8	7	7	7	30	42	
733,840	4.341	48	36	31	23	15	9	6	31	44	
733,922	4.292	47	36	30	22	14	9	6	31	45	km 733 = 900 m
733,999	4.323	41	31	27	20	13	8	6	31	42	
734,080	4.250	33	25	22	17	13	9	7	31	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
734,159	4.309	50	39	34	26	19	13	9	31	34	
734,240	4.290	70	54	46	35	24	15	10	32	42	
734,320	4.284	51	39	34	27	21	16	9	31	44	
734,401	4.303	43	34	29	21	14	9	6	32	43	
734,481	4.283	58	47	41	33	23	15	9	32	43	
734,560	4.275	46	36	31	22	15	9	6	32	44	
734,641	4.279	46	34	29	20	13	8	5	31	44	
734,723	4.236	65	53	46	34	23	15	10	31	43	
734,803	4.270	92	71	60	43	28	17	12	31	41	
734,881	4.243	69	53	43	30	19	12	9	31	41	
734,960	4.262	69	53	42	28	16	10	6	32	44	km 734 = 960 m
735,040	4.293	56	42	33	21	13	8	6	32	36	
735,121	4.311	27	22	19	15	11	8	7	31	44	
735,199	4.334	42	30	22	14	8	5	4	31	30	
735,279	4.245	85	64	48	30	18	12	8	31	43	
735,360	4.213	110	85	70	49	33	20	13	31	28	
735,440	4.274	48	36	28	18	12	8	6	31	44	
735,519	4.227	70	55	45	33	23	16	11	32	35	
735,601	4.266	53	40	34	24	16	11	7	31	25	
735,679	4.247	79	60	47	34	24	17	12	32	35	
735,761	4.220	121	92	69	48	33	22	15	31	38	início ponte km 735,905
735,838	4.261	75	59	49	36	25	17	11	31	44	fim ponte km 735,932
735,997	4.309	34	27	24	18	13	10	8	31	46	km 735 = 1000 m
736,081	4.272	63	50	43	33	24	18	13	32	43	
736,160	4.152	114	79	59	41	29	21	14	32	43	
736,240	4.170	150	111	85	58	40	28	20	32	43	
736,319	4.207	83	54	36	21	13	10	7	32	44	
736,400	4.258	86	65	50	34	20	13	9	32	45	
736,483	4.286	119	86	63	41	27	18	13	32	43	
736,563	4.280	44	30	24	18	14	11	8	31	44	
736,640	4.363	20	14	11	8	7	6	5	32	44	
736,719	4.343	21	14	11	8	7	6	5	32	44	
736,800	4.327	26	18	14	11	8	7	5	32	44	
736,881	4.339	25	15	12	8	7	6	5	31	44	
736,960	4.331	31	22	17	12	9	7	6	32	43	km 736 = 1000 m
737,041	4.313	25	17	13	10	8	7	6	32	44	
737,120	4.318	32	22	17	13	10	9	7	32	44	
737,201	4.317	30	21	16	12	10	8	6	32	45	
737,281	4.313	43	32	27	20	13	8	5	32	44	
737,360	4.313	18	12	11	8	7	5	4	32	43	
737,442	4.318	20	15	13	10	8	7	6	32	44	
737,519	4.311	36	26	21	15	11	8	6	31	39	
737,601	4.256	90	63	47	27	13	7	5	32	44	
737,680	4.253	91	69	56	38	22	12	7	32	45	início ponte km 737,690
737,762	4.260	62	48	39	26	15	9	5	33	46	fim ponte km 737,722
737,840	4.241	78	48	33	18	11	8	6	32	48	
737,921	4.216	75	52	38	24	16	13	10	33	47	km 737 = 1000 m
738,000	4.233	113	70	41	19	9	6	5	33	45	
738,079	4.227	84	56	39	23	14	10	8	33	46	
738,160	4.227	104	58	36	21	13	9	7	33	46	
738,240	4.244	91	56	37	21	12	8	6	32	46	
738,319	4.245	92	64	44	26	15	10	6	32	45	
738,399	4.214	81	55	40	25	17	13	10	33	44	
738,480	4.254	52	30	19	11	7	5	4	33	41	
738,562	4.225	69	45	29	15	8	5	4	32	46	
738,640	4.219	97	61	41	22	11	7	5	32	45	
738,720	4.187	105	78	60	39	27	20	15	32	45	
738,801	4.250	79	52	36	23	15	11	8	32	47	
738,880	4.196	88	61	45	30	20	15	12	33	47	
738,962	4.214	90	69	54	37	24	16	11	33	46	km 738 = 1000 m
739,039	4.219	100	64	42	24	15	10	7	32	44	
739,121	4.205	95	64	45	27	16	11	8	32	43	
739,200	4.176	124	80	54	37	25	17	11	32	45	
739,281	4.201	77	41	23	14	10	7	5	32	47	
739,363	4.036	72	48	35	21	13	9	7	31	48	
739,443	4.303	15	8	7	6	5	4	4	33	49	
739,520	4.266	40	30	28	24	20	17	13	33	50	
739,598	4.321	12	5	5	5	4	4	3	33	50	início ponte km 739,609
739,681	4.252	23	13	10	8	8	7	6	33	48	fim ponte km 739,648
739,761	4.276	39	24	18	12	8	7	5	32	48	
739,840	4.266	28	16	14	11	10	9	8	32	49	
739,919	4.256	25	16	14	11	9	8	7	32	48	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
740,001	4.203	53	34	25	17	12	10	8	32	48	
740,082	4.117	153	117	95	70	51	37	27	33	45	km 739 = 1140 m
740,079	4.119	158	112	80	50	30	19	13	33	46	
740,162	4.164	124	99	83	61	43	30	21	33	47	
740,240	4.185	92	73	60	44	31	22	16	32	48	
740,319	4.217	65	46	34	20	12	8	6	32	50	
740,399	4.212	75	56	41	24	14	9	7	32	49	
740,481	4.235	36	26	17	11	8	6	4	32	50	
740,560	4.167	96	77	59	46	42	33	25	33	45	
740,640	4.178	104	77	61	43	29	21	15	32	49	
740,720	4.217	51	38	28	17	10	7	5	33	49	
740,799	4.201	76	65	53	38	27	20	15	33	48	km 740 = 800 m
741,040	4.209	89	70	56	38	24	16	12	32	49	
741,119	4.266	52	43	34	24	15	9	7	31	51	
741,199	4.185	73	58	48	35	24	18	13	32	52	
741,281	4.204	83	65	52	35	22	15	10	33	51	
741,361	4.217	96	71	57	40	26	17	11	33	50	
741,441	4.139	113	79	60	42	29	20	13	33	49	
741,520	4.176	105	68	47	27	14	9	6	32	48	
741,601	4.245	72	46	31	17	10	7	5	32	50	
741,681	4.153	109	74	55	38	27	20	14	32	47	
741,762	4.209	80	53	36	21	13	9	6	33	47	
741,842	4.252	63	41	30	18	11	8	5	32	32	
741,921	4.229	79	51	35	20	12	8	5	32	48	
742,000	4.134	138	103	83	59	39	25	17	32	48	inicio ponte km 742,065
742,162	4.164	131	79	55	35	23	16	11	33	50	fim ponte km 742,072
742,243	4.270	74	57	49	35	23	16	12	33	47	km 741 = 1270 m
741,999	4.309	52	38	32	23	15	10	7	31	38	
742,081	4.303	83	60	46	32	21	14	7	31	40	
742,162	4.264	118	86	67	45	28	19	14	31	42	
742,243	4.257	100	74	58	40	27	19	14	31	42	
742,322	4.318	37	26	20	16	12	9	7	31	39	
742,402	4.289	39	29	23	18	14	6	5	32	38	
742,482	4.234	57	39	29	21	14	9	7	31	37	
742,564	4.261	78	53	39	24	14	9	6	32	40	
742,642	4.289	58	40	30	20	14	9	6	31	38	
742,722	4.313	46	32	23	15	9	6	4	31	37	
742,800	4.153	180	148	117	80	45	26	16	31	39	km 742 = 800 m
743,042	4.243	105	80	63	45	30	20	14	31	39	
743,121	4.237	112	82	65	44	27	17	11	32	38	
743,200	4.167	112	83	66	45	31	18	13	32	34	
743,280	4.350	48	27	18	12	7	5	4	31	34	
743,360	4.305	77	54	42	29	19	13	9	32	36	
743,442	4.248	78	53	34	23	12	7	5	32	35	
743,521	4.246	113	85	69	50	32	22	15	31	36	
743,600	4.243	138	86	64	42	24	13	8	31	35	
743,679	4.226	127	83	61	40	24	14	9	31	35	
743,760	4.246	104	66	46	31	20	13	9	31	37	
743,841	4.243	105	64	44	29	20	15	11	29	39	inicio ponte km 743,941
743,920	4.246	97	65	46	30	20	14	9	31	40	km 743 = 1000 m
744,161	4.223	109	77	57	37	23	15	11	31	40	fim ponte km 744,090
744,240	4.183	106	71	48	29	16	9	6	31	42	
744,321	4.241	105	73	54	32	18	10	6	31	46	
744,401	4.245	83	64	47	31	21	15	10	32	47	
744,481	4.272	68	49	35	21	11	7	4	31	46	
744,561	4.234	92	66	49	32	21	13	9	31	42	
744,640	4.275	81	60	45	31	20	13	6	31	42	inicio ponte km 744,746
744,719	4.207	137	100	80	55	36	24	16	31	41	km 744 = 1000 m
745,040	4.264	62	45	34	23	16	11	9	31	40	fim ponte km 744,938
745,120	4.257	72	53	43	31	20	14	10	31	40	
745,201	4.230	94	70	56	39	26	18	13	31	37	
745,279	4.296	63	46	36	24	15	10	7	31	39	
745,360	4.262	85	62	48	32	20	13	9	32	39	
745,439	4.311	71	53	42	28	18	13	10	31	39	
745,523	4.230	124	98	77	53	35	23	14	31	37	
745,603	4.257	80	55	40	24	13	8	5	32	38	inicio ponte km 745,737
745,681	4.241	90	57	38	22	12	8	6	31	41	km 745 = 1000 m
746,003	4.277	48	35	28	21	16	12	9	31	40	fim ponte km 745,942
746,081	4.284	70	50	38	25	16	11	8	32	41	
746,160	4.302	45	30	22	13	10	8	5	31	40	
746,241	4.251	40	28	21	15	11	9	7	32	42	
746,321	4.280	53	43	35	24	14	9	6	31	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
746,399	4,296	99	75	58	42	27	18	12	31	42	
746,481	4,316	78	55	40	27	17	11	8	32	45	
746,562	4,311	79	58	44	29	17	10	7	32	45	
746,640	4,286	94	68	53	36	26	19	14	31	46	
746,719	4,290	83	61	44	29	17	12	8	31	45	
746,799	4,288	86	61	41	25	14	8	5	31	45	inicio ponte km 746,921
746,879	4,313	76	50	34	20	12	8	6	31	45	km 746 = 1000 m
747,080	4,248	105	70	48	31	20	14	9	31	46	fim ponte km 747,035
747,121	4,286	98	69	49	30	16	8	5	31	46	
747,201	4,307	64	48	39	27	18	13	9	32	46	
747,284	4,230	105	77	57	38	23	14	8	32	46	
747,362	4,253	76	57	43	30	20	14	10	32	45	
747,441	4,262	78	56	45	30	18	12	7	31	48	
747,521	4,232	82	59	46	31	21	14	9	31	44	
747,600	4,270	68	51	38	25	17	12	9	31	43	
747,681	4,256	104	69	48	29	15	9	6	31	42	
747,760	4,293	82	52	35	20	12	9	6	32	43	
747,841	4,280	76	50	35	21	12	7	3	32	46	
747,921	4,268	90	63	47	30	19	12	8	31	47	km 747 = 1000 m
748,001	4,218	96	70	55	37	23	14	9	31	46	
748,080	4,205	107	78	64	46	27	18	11	31	44	
748,161	3,977	374	271	200	124	63	33	19	32	44	
748,241	4,121	214	164	129	91	56	31	18	32	43	
748,323	4,149	164	132	114	90	65	45	29	32	43	
748,401	4,194	133	107	89	68	51	37	27	31	41	
748,482	4,265	91	63	46	29	18	13	9	31	41	
748,560	4,266	63	42	29	16	9	6	2	31	40	
748,640	4,271	70	45	31	20	14	11	10	32	39	
748,721	4,278	78	56	43	28	17	11	7	32	39	
748,800	4,286	70	54	44	32	23	17	13	31	39	
748,881	4,224	64	45	39	29	19	12	8	31	41	
748,961	4,246	68	45	31	18	9	5	4	32	41	km 748 = 1000 m
749,040	4,306	67	48	34	21	11	7	4	32	45	
749,123	4,272	71	51	41	28	18	13	9	32	47	
749,200	4,279	63	44	32	21	13	9	6	32	46	
749,281	4,282	75	54	41	27	18	12	9	33	47	
749,360	4,250	86	67	53	36	22	14	10	33	45	
749,440	4,293	78	55	38	25	15	10	7	33	44	
749,519	4,236	99	75	60	40	27	18	12	33	39	
749,601	4,263	87	67	56	41	29	20	14	33	48	
749,680	4,288	59	42	33	24	17	12	8	33	47	
749,759	4,255	74	53	40	28	19	13	10	33	46	
749,840	4,237	78	56	43	28	17	11	7	33	48	
749,921	4,194	143	97	67	39	22	14	10	32	47	km 749 = 1000 m
750,001	4,264	73	51	39	25	14	10	7	33	41	
750,079	4,263	74	53	41	27	17	12	8	33	48	
750,160	4,203	102	77	63	45	29	19	13	33	48	
750,242	4,209	109	79	62	41	25	17	12	32	49	
750,319	4,185	116	91	75	53	33	20	13	33	48	
750,401	4,194	108	81	61	39	24	16	11	33	49	
750,481	4,250	91	68	52	35	21	15	10	33	47	
750,560	4,318	26	20	18	15	12	10	8	33	49	
750,640	4,311	36	24	21	17	13	11	9	33	48	
750,721	4,291	24	16	14	11	10	9	7	32	46	
750,800	4,300	32	22	17	13	10	8	5	33	46	
750,881	4,282	21	14	11	9	8	7	6	33	46	
750,961	4,261	39	29	26	22	18	15	11	33	46	km 750 = 1000 m
751,043	4,288	24	16	12	9	8	6	5	33	34	
751,121	4,261	49	34	28	21	14	10	7	32	45	
751,203	4,187	101	73	55	36	21	11	7	33	38	
751,282	4,207	121	96	79	59	41	29	20	32	35	
751,362	4,253	86	63	52	37	24	16	12	33	49	
751,438	4,223	115	88	70	50	32	22	16	33	37	
751,523	4,205	125	100	83	60	39	27	18	33	48	
751,602	4,291	54	33	21	11	7	5	4	33	38	
751,680	4,223	101	74	58	38	24	15	9	33	49	
751,761	4,207	111	78	59	40	26	17	12	33	34	
751,841	4,250	74	54	42	28	18	12	8	33	34	
751,919	4,221	88	61	44	25	12	6	4	32	49	km 751 = 1000 m
752,000	4,171	130	90	68	41	22	14	9	33	50	
752,077	4,124	184	145	114	77	47	28	18	33	47	
752,160	4,250	66	44	33	21	13	9	6	33	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
752,240	4.207	129	88	62	35	13	8	6	33	39	
752,319	4.261	64	41	29	18	10	6	4	33	36	
752,400	4.231	71	50	36	20	12	8	6	33	44	
752,481	4.245	80	57	44	30	19	13	9	32	40	
752,562	4.284	164	113	77	42	19	11	7	33	38	
752,643	4.266	96	74	55	36	22	15	11	33	50	
752,721	4.239	78	47	33	21	13	9	7	33	44	
752,803	4.232	110	75	56	37	23	15	11	33	50	
752,877	4.264	71	48	40	28	17	11	7	32	42	
752,962	4.214	78	58	49	38	27	19	12	33	43	km 752 = 1020 m
753,040	4.266	35	32	27	21	15	10	7	33	52	
753,121	4.277	30	22	18	14	10	7	5	33	51	
753,200	4.173	52	40	37	29	21	15	11	33	54	
753,279	4.180	113	71	50	34	22	16	11	34	53	
753,361	4.291	29	15	12	10	9	7	6	33	40	
753,442	4.320	25	16	13	10	7	6	4	32	36	
753,521	4.304	32	22	17	14	13	11	9	33	49	
753,600	4.266	33	16	10	8	7	6	5	33	50	
753,681	4.277	39	27	23	18	13	9	6	34	49	
753,760	4.251	58	36	28	23	19	15	11	33	50	
753,840	4.262	49	34	27	18	12	8	6	33	46	
753,921	4.255	111	78	55	33	19	12	7	33	46	km 753 = 980 m
754,001	4.189	140	87	59	33	16	9	6	33	47	
754,080	4.214	124	92	69	43	24	14	9	33	47	
754,160	4.208	133	88	66	42	25	17	13	33	41	
754,239	4.232	109	74	54	34	23	17	12	33	46	
754,322	4.264	96	65	47	29	15	8	5	34	41	
754,400	4.267	68	47	33	20	12	8	6	33	47	
754,480	4.262	72	47	32	18	11	7	5	33	48	
754,559	4.239	74	46	31	19	11	7	5	33	49	
754,643	4.221	73	46	33	21	13	8	5	33	47	
754,720	4.286	37	24	20	14	9	6	5	34	50	
754,799	4.265	28	25	21	15	10	7	5	33	49	
754,879	4.262	29	26	22	15	9	6	4	32	48	
754,960	4.251	39	24	19	12	7	5	4	33	48	km 754 = 1000 m
755,042	4.275	34	21	17	11	6	4	3	33	49	
755,123	4.251	30	24	21	16	12	8	5	34	50	
755,199	4.284	19	17	17	14	10	7	5	33	43	
755,279	4.237	69	42	28	15	6	2	1	33	41	
755,363	4.243	80	50	32	17	10	6	4	33	44	
755,440	4.257	64	42	29	16	8	5	3	33	46	
755,520	4.288	66	44	29	16	8	6	4	33	45	
755,601	4.271	54	34	24	14	9	6	4	33	37	
755,681	4.269	75	50	38	26	17	13	10	33	37	
755,762	4.219	92	65	52	37	25	18	13	33	35	
755,839	4.217	105	74	57	37	25	16	11	33	35	
755,919	4.247	61	40	29	19	14	10	8	32	35	km 755 = 1000 m
756,001	4.259	83	51	35	22	15	11	8	33	35	inicio ponte km 756,051
756,160	4.294	68	44	32	22	15	11	8	33	37	fim ponte km 756,117
756,239	4.248	98	66	48	30	17	11	7	32	42	
756,320	4.235	102	70	50	29	16	10	7	32	43	
756,401	4.235	85	59	43	28	16	9	6	32	43	
756,479	4.235	97	68	50	32	20	13	9	31	43	
756,563	4.212	122	83	58	37	22	14	10	31	45	
756,642	4.250	78	53	37	22	12	8	6	32	44	
756,720	4.257	55	37	25	14	8	6	5	31	46	
756,802	4.241	82	56	38	23	15	10	7	32	45	
756,879	4.246	81	55	38	22	12	7	5	33	45	
756,963	4.199	86	57	40	23	14	9	6	33	45	km 756 = 1000 m
757,039	4.219	88	53	34	19	10	5	3	33	47	
757,121	4.259	64	42	29	15	9	6	5	33	44	
757,200	4.232	80	54	37	20	10	6	5	31	47	
757,282	4.158	149	112	86	52	32	21	14	31	46	
757,362	4.232	71	49	36	22	14	10	8	31	46	
757,440	4.235	93	67	48	31	19	12	9	31	46	
757,523	4.214	72	52	35	23	14	10	7	31	46	
757,600	4.232	73	52	37	21	12	8	6	32	45	
757,681	4.185	121	92	72	50	30	19	12	31	44	
757,762	4.257	73	51	40	27	17	12	8	32	44	
757,840	4.273	46	29	20	12	8	6	5	31	44	
757,921	4.208	112	88	75	54	37	24	16	32	44	
757,999	4.269	54	35	24	14	8	6	5	31	44	km 757 = 1010 m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
758,081	4.257	78	53	37	22	12	7	5	31	44	
758,158	4.199	108	60	31	13	7	5	3	31	39	
758,240	4.237	82	54	37	20	11	7	6	31	44	
758,318	4.282	34	23	19	12	7	4	3	31	46	
758,402	4.247	60	36	25	14	8	5	4	31	36	
758,483	4.204	100	72	55	36	23	15	11	31	40	
758,559	4.181	114	66	49	35	26	20	15	32	40	
758,640	4.132	178	132	108	77	50	31	20	32	40	
758,719	4.258	123	64	28	17	8	5	3	31	45	
758,801	4.255	97	61	44	30	21	16	12	31	47	
758,881	4.242	72	47	36	24	16	12	10	32	45	
758,960	4.260	64	40	30	20	12	8	5	31	46	km 758 = 1000 m
759,039	4.244	61	37	26	15	8	5	4	31	46	
759,119	4.197	103	70	50	32	20	14	10	31	42	
759,201	4.278	45	34	28	21	15	11	8	31	33	
759,280	4.291	26	19	16	11	8	6	5	31	30	
759,360	4.233	67	47	35	26	17	11	7	31	38	
759,440	4.220	87	58	46	34	24	16	11	31	46	
759,518	4.235	87	61	48	33	21	14	10	32	46	
759,602	4.199	90	61	44	28	17	11	7	32	47	
759,681	4.195	89	61	44	27	14	9	6	31	46	
759,759	4.194	134	101	75	46	28	18	12	32	44	
759,838	4.179	113	83	59	36	22	14	10	32	45	
759,919	4.229	86	58	42	26	16	10	7	32	44	km 759 = 1000 m
759,999	4.213	105	74	56	36	21	13	9	31	44	
760,080	4.126	146	101	71	40	20	11	7	31	44	
760,160	4.231	70	47	34	22	13	9	6	31	42	
760,243	4.194	120	94	78	59	41	27	17	31	41	
760,322	4.160	129	102	84	63	43	28	18	31	39	
760,400	4.204	147	113	92	68	47	30	19	31	39	
760,479	4.188	104	79	63	45	30	19	12	31	41	
760,560	4.210	118	90	72	53	35	22	14	32	42	
760,640	4.276	77	53	39	24	14	9	6	31	43	
760,719	4.278	67	44	32	18	10	6	4	31	42	
760,799	4.276	51	35	26	16	8	5	3	31	43	
760,880	4.212	80	58	46	31	19	12	7	31	43	
760,960	4.210	71	49	35	21	11	7	4	31	42	km 760 = 990 m
761,038	4.237	67	46	34	20	10	6	4	31	42	
761,119	4.237	67	46	35	21	11	7	5	30	42	
761,200	4.269	59	41	31	20	13	8	6	32	35	
761,279	4.195	95	70	55	38	24	16	10	30	42	
761,359	4.202	88	60	46	31	20	14	9	30	39	
761,440	4.251	54	37	29	16	10	6	5	30	32	
761,520	4.149	119	81	59	34	21	14	10	30	33	
761,600	4.258	71	48	34	20	11	7	6	30	35	
761,683	4.199	100	66	47	28	16	10	7	30	38	
761,761	4.134	141	100	72	46	29	19	13	30	34	
761,843	4.172	126	94	69	41	26	16	11	30	35	
761,920	4.167	135	102	80	57	41	27	18	30	41	km 761 = 985 m
762,000	4.228	75	53	38	22	15	11	8	30	37	
762,079	4.255	62	43	33	21	13	9	7	30	32	
762,159	4.212	84	56	42	28	17	12	9	30	39	
762,240	4.237	87	52	34	19	11	8	6	30	39	
762,321	4.239	105	52	32	15	6	4	3	30	39	
762,401	4.299	54	42	37	29	22	16	11	30	35	
762,482	4.267	43	29	21	14	9	5	4	29	37	
762,560	4.260	44	38	32	24	17	12	9	29	39	
762,641	4.237	45	32	25	18	12	8	6	29	42	
762,720	4.255	49	36	29	19	12	7	5	29	38	
762,799	4.208	68	56	49	37	26	17	11	28	44	
762,881	4.309	33	25	21	15	11	8	5	29	41	
762,960	4.249	53	38	29	18	11	7	5	29	39	km 762 = 1015 m
763,040	4.288	60	47	41	30	20	14	9	29	35	
763,120	4.226	98	79	65	49	34	24	16	28	31	
763,201	4.255	70	49	36	23	14	9	5	28	33	
763,280	4.226	74	51	39	23	14	9	6	29	38	
763,358	4.204	105	82	62	41	27	18	12	28	34	
763,437	4.220	95	66	52	36	25	17	12	28	32	
763,521	4.218	83	63	52	38	25	16	11	28	31	
763,599	4.231	83	65	52	34	21	15	11	29	29	
763,679	4.260	75	58	45	29	18	12	8	28	28	
763,760	4.237	79	57	46	32	20	14	10	28	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007	
PISTA:	Multivia / Crescente				FAIXA:	2					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
763,839	4.227	87	65	53	36	23	16	11	28	36	
763,920	4.240	77	54	42	28	18	11	7	29	35	km 763 = 1000 m
764,003	4.203	114	82	61	40	22	11	6	28	36	
764,083	4.206	122	90	69	44	24	12	6	28	38	
764,160	4.160	146	107	78	46	27	16	10	28	36	
764,241	4.213	120	79	58	35	19	11	8	28	38	
764,322	4.227	113	85	65	44	27	17	11	29	39	
764,400	4.194	103	73	54	36	22	14	9	28	39	
764,481	4.215	99	76	62	44	29	19	12	29	38	
764,560	4.280	66	43	32	22	16	11	7	29	37	
764,643	4.220	101	75	56	35	20	12	8	29	33	
764,718	4.260	74	50	38	25	16	10	7	29	34	
764,799	4.262	51	37	28	19	13	10	7	29	36	
764,879	4.192	134	97	76	51	32	20	12	28	36	
764,960	4.144	155	125	100	70	42	25	14	28	36	km 764 = 1000 m
765,040	4.194	149	101	72	47	30	20	13	32	45	
765,126	4.251	132	104	85	61	41	27	17	32	42	
765,200	4.217	148	107	80	52	31	19	12	33	41	
765,281	4.239	122	84	59	38	25	17	12	32	43	
765,362	4.222	114	81	62	41	25	15	10	33	43	
765,440	4.259	80	58	43	26	15	10	6	33	42	
765,520	4.244	98	74	56	38	26	18	14	32	41	
765,601	4.257	62	46	33	19	11	7	5	32	43	
765,681	4.228	93	69	53	36	22	13	9	32	44	
765,759	4.267	78	58	46	31	20	13	9	32	45	
765,841	4.197	101	70	51	31	18	11	8	32	45	
765,920	4.265	92	57	38	22	12	8	6	32	46	km 765 = 990 m
765,999	4.206	128	85	60	36	20	13	9	32	47	
766,081	4.146	147	116	96	70	46	30	18	33	48	
766,161	4.176	132	105	87	63	40	24	13	33	46	
766,243	4.095	239	199	161	109	62	32	18	33	46	
766,320	4.260	67	47	35	24	15	10	4	33	45	
766,401	4.197	123	86	60	34	17	10	7	33	45	
766,481	4.179	160	108	75	45	22	11	7	32	45	
766,561	4.212	106	73	54	33	18	10	6	33	41	
766,640	4.179	147	105	80	51	28	15	9	33	38	inicio ponte km 766,647
766,720	4.122	197	143	107	71	45	29	19	32	41	fim ponte km 766,677
766,800	4.156	169	128	99	65	38	21	11	32	41	
766,881	4.187	148	100	64	31	13	6	3	31	40	
766,960	4.220	73	51	37	23	15	11	8	32	42	km 766 = 1000 m
767,040	4.263	83	56	39	24	15	10	7	32	43	
767,119	4.261	81	54	33	20	12	9	6	32	42	
767,201	4.289	36	28	24	19	16	13	10	32	44	
767,279	4.190	125	86	57	34	19	11	5	32	38	
767,363	4.244	70	49	34	21	14	10	7	33	44	
767,440	4.190	115	75	51	32	20	12	8	33	44	
767,520	4.247	84	53	37	23	15	10	7	32	45	
767,599	4.220	120	72	45	25	14	10	7	32	43	
767,679	4.269	67	47	35	23	15	12	9	32	45	
767,760	4.265	101	71	48	29	19	13	9	31	45	
767,840	4.213	105	75	52	30	17	10	7	32	43	
767,922	4.222	121	80	53	28	13	7	4	32	46	km 767 = 1000 m
767,999	4.255	87	55	39	25	15	9	6	32	47	
768,081	4.241	91	52	39	25	15	9	6	33	50	
768,159	4.222	97	69	51	32	18	11	7	33	48	
768,241	4.181	122	79	53	31	18	12	8	33	46	
768,321	4.203	125	80	50	26	14	8	6	33	48	
768,400	4.218	89	63	42	24	13	8	6	33	47	
768,479	4.267	88	53	34	20	11	7	5	33	46	
768,560	4.267	97	69	49	32	21	15	11	33	46	
768,640	4.255	80	55	37	18	8	5	3	33	46	
768,721	4.237	102	77	56	36	23	15	10	32	45	
768,800	4.251	66	47	34	22	14	9	6	33	45	
768,879	4.280	70	47	32	21	14	10	7	33	48	
768,961	4.224	102	74	55	37	25	17	11	33	46	km 768 = 1055 m
769,040	4.179	139	99	68	45	27	16	11	33	46	
769,121	4.228	79	55	39	24	15	10	8	32	48	
769,200	4.220	105	74	52	35	23	16	12	33	47	
769,281	4.179	166	113	76	46	27	17	11	33	48	
769,362	4.140	116	75	50	29	16	10	6	33	46	
769,440	4.194	130	93	66	38	19	10	6	32	47	
769,519	4.272	92	66	45	24	14	8	6	33	49	

RODOVIA:	BR-040 / MG				TRECHO:	km 597,0 ao km 773,4				DATA: fev/2007			
PISTA:	Multivia / Crescente				FAIXA:	2							
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m							
769,601	4.242	102	69	45	25	13	7	5	33	47			
769,681	4.194	157	114	81	51	29	18	11	33	48			
769,762	4.222	126	82	49	31	18	11	7	33	41			
769,841	4.258	91	59	38	19	11	7	6	32	48			
769,923	4.222	106	70	44	23	11	7	5	32	48	km 769 = 1000 m		
770,001	4.224	104	72	51	32	19	12	8	33	47			
770,080	4.206	112	80	53	32	18	10	6	33	48			
770,160	4.245	66	45	31	20	13	7	5	33	49			
770,240	4.174	155	112	85	55	31	17	10	32	50			
770,320	4.211	123	86	63	39	23	14	10	33	48			
770,402	4.167	162	122	91	60	38	23	15	33	48			
770,480	4.211	119	85	62	39	24	15	10	33	49			
770,561	4.240	89	62	42	24	13	9	7	33	49			
770,641	4.136	146	105	75	48	28	17	10	33	50			
770,721	4.218	105	73	50	28	14	8	5	34	50			
770,800	4.132	187	131	89	51	22	10	6	33	49			
770,881	4.159	137	104	82	53	30	18	12	33	51			
770,960	4.245	73	51	40	27	15	10	7	32	48	km 770 = 1000 m		
771,040	4.170	140	98	67	38	18	10	6	33	49			
771,121	4.213	109	89	70	47	29	17	11	33	46			
771,200	4.222	129	99	77	52	33	21	13	33	46			
771,282	4.236	130	86	58	31	14	8	6	33	45			
771,362	4.256	92	66	49	29	14	8	6	33	45			
771,441	4.272	85	62	49	34	22	14	9	33	42			
771,519	4.288	80	55	39	22	13	10	8	33	43			
771,603	4.286	62	44	33	21	13	9	6	33	44			
771,679	4.251	77	53	37	21	11	7	4	32	42			
771,761	4.131	205	157	128	89	55	35	20	33	45			
771,841	4.225	102	67	51	33	21	15	11	33	45			
771,919	4.194	129	91	67	41	22	12	8	33	46	km 771 = 930 m		
772,079	4.240	98	70	51	32	19	13	9	32	47			
772,160	4.243	86	63	46	27	16	10	7	33	48			
772,243	4.222	101	75	54	33	19	12	8	33	48			
772,321	4.252	70	51	36	21	12	8	5	33	49			
772,403	4.213	110	83	64	44	30	20	13	33	48			
772,479	4.200	127	97	78	54	34	21	12	33	51			
772,560	4.229	88	65	50	32	20	14	11	33	51			
772,640	4.190	127	91	69	47	30	19	13	33	51			
772,720	4.111	188	135	98	62	35	21	13	33	50			
772,803	4.168	125	88	66	38	22	13	9	33	53			
772,881	4.222	102	75	59	38	22	12	8	33	52			
772,960	4.245	71	50	37	23	14	9	7					

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG	TRECHO: km 0,0 ao km 773,4							DATA: fev/2007		
PISTA:	Crescente	FAIXA: Adicional									
SENTIDO:	DF/MG	ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
42,120	3.929	47	29	20	14	9	5	4	31	34	início km 42,100
42,200	3.958	79	53	36	24	14	8	6	31	34	
42,280	4.009	16	13	12	11	9	6	6	31	34	
42,360	3.951	77	55	39	26	16	9	8	31	34	
42,442	3.937	77	56	41	28	18	10	9	31	34	
42,522	3.980	57	40	28	19	12	7	6	31	34	
42,601	3.966	49	31	21	14	8	5	4	31	34	
42,685	3.980	50	35	26	18	11	6	5	31	34	fim km 42,730
46,120	76	41	29	21	14	8	5	4	31	34	início km 46,060
46,200	77	65	41	29	19	11	7	6	31	33	
46,283	76	78	47	29	18	10	5	5	31	34	
46,363	76	58	36	26	17	10	5	5	31	33	
46,442	77	41	27	20	15	9	5	4	31	34	
46,522	77	36	22	14	8	5	2	2	31	33	
46,600	77	28	19	14	10	6	3	2	31	34	
46,680	77	34	20	15	11	8	5	4	31	34	
46,762	77	47	34	25	17	11	7	6	31	34	
46,841	77	34	25	20	15	10	6	6	31	34	
46,921	75	79	63	44	22	11	7	7	31	34	
47,000	76	56	38	28	20	13	8	7	31	34	
47,081	77	47	32	24	17	11	7	6	31	34	
47,161	75	113	90	67	43	23	10	7	31	34	fim km 47,150
137,560	4.146	42	24	21	15	10	6	4	25	36	início km 137,540
137,640	4.016	140	75	55	28	10	3	2	25	36	
137,720	4.102	64	41	35	23	12	7	4	26	36	
137,800	4.102	61	38	31	20	10	6	3	26	36	
137,882	4.124	33	18	14	8	4	3	2	26	36	
137,960	4.124	36	21	17	11	5	3	2	26	36	
138,043	4.102	61	29	19	8	3	2	1	26	36	
138,119	4.117	39	26	21	14	7	4	3	26	36	
138,200	3.980	227	41	11	0	1	2	2	27	36	
138,281	4.088	67	40	29	17	7	4	2	27	36	
138,360	4.124	15	9	8	5	3	2	1	27	36	
138,440	4.102	22	12	9	6	4	3	2	27	36	
138,520	4.131	18	10	9	6	3	2	1	27	36	
138,600	4.110	38	23	19	12	7	4	3	27	36	
138,680	4.088	67	43	38	27	15	10	7	27	36	
138,760	4.030	102	60	51	30	14	7	4	27	36	
138,842	4.066	48	29	25	15	8	5	4	28	36	
138,920	4.038	62	38	31	21	10	6	3	27	36	
139,001	4.110	35	19	15	9	5	3	2	28	36	
139,080	4.110	61	36	29	16	6	3	1	28	36	
139,163	4.102	38	22	18	12	5	3	1	28	36	
139,240	4.153	51	30	24	14	6	2	1	28	36	
139,320	4.124	36	22	18	11	5	2	0	28	36	
139,400	4.081	59	36	29	19	8	3	1	28	36	
139,480	4.102	69	41	34	21	7	2	1	29	36	
139,560	4.074	45	23	14	4	2	1	1	28	36	
139,641	4.095	45	27	22	13	7	3	2	29	36	
139,719	4.102	43	27	24	17	9	5	2	29	36	
139,800	4.066	52	32	28	19	11	7	4	29	36	
139,881	4.066	52	32	28	18	11	6	3	29	36	
139,960	4.110	40	24	19	12	5	3	2	29	36	
140,041	4.117	36	23	19	12	6	4	2	29	36	km 140 = 965m
140,120	4.066	79	46	39	26	13	6	3	30	36	
140,202	4.081	65	39	32	20	9	5	2	30	36	
140,280	4.095	38	24	22	15	9	6	4	30	36	
140,360	4.074	55	31	23	14	7	5	4	30	36	
140,440	3.994	100	59	51	32	18	11	7	30	36	
140,520	4.030	95	53	42	23	10	5	4	30	36	
140,600	4.045	78	46	40	26	12	6	3	30	36	
140,680	3.994	109	66	56	36	17	9	4	30	36	
140,760	4.045	69	43	38	24	11	3	0	30	36	
140,840	3.937	111	67	60	40	22	12	7	30	36	
140,920	4.045	76	47	39	25	12	6	4	30	36	
141,080	4.052	47	29	26	18	8	3	0	31	36	km 141 = 1090m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
141,161	4.110	23	14	12	8	4	2	1	31	36	
141,240	3.908	135	77	65	38	19	10	4	30	36	
141,320	3.980	76	51	48	34	19	12	7	30	36	
141,400	4.052	65	38	31	19	8	4	2	30	36	
141,480	4.081	58	34	28	18	8	5	3	31	36	
141,560	4.102	30	16	12	6	3	1	1	30	36	
141,640	4.059	51	30	26	17	7	3	2	31	36	
141,720	4.102	22	11	9	4	2	1	0	30	36	
141,802	4.081	23	13	10	8	4	3	2	30	36	
141,880	4.088	47	27	23	13	6	2	1	30	36	
141,960	3.944	172	93	64	28	12	7	4	30	36	fim km 141,965
143,881	3.922	66	40	37	27	15	9	5	30	40	inicio km 143,870
143,960	3.951	59	36	33	23	13	8	5	30	40	
144,040	3.973	48	30	27	18	10	6	3	30	40	
144,121	3.987	37	22	19	12	6	4	2	30	40	
144,200	3.966	51	31	26	16	7	4	2	30	40	
144,281	3.987	62	36	30	18	7	1	0	30	40	
144,360	3.929	65	39	33	21	10	5	3	29	40	
144,438	4.009	30	17	15	10	5	3	2	30	40	
144,518	4.045	15	9	8	6	4	3	2	29	40	
144,599	4.030	10	5	4	3	2	2	1	29	40	
144,679	4.045	11	5	4	4	2	2	1	29	40	
144,758	4.038	11	6	6	5	3	3	2	29	40	
144,839	4.030	18	10	9	6	4	3	2	29	40	
144,919	4.052	20	11	10	7	4	3	2	29	40	fim km 144,950
176,050	4.117	66	36	27	17	10	8	6	23	27	inicio km 176,050
176,120	4.131	56	32	26	17	11	8	6	22	27	
176,199	4.146	62	37	28	17	7	5	4	23	27	
176,280	4.038	137	67	29	0	2	2	2	22	27	
176,360	4.102	96	53	34	14	6	4	3	23	27	
176,441	4.131	68	36	26	15	10	7	5	23	27	
176,520	4.139	52	30	24	15	7	5	3	23	27	
176,600	4.153	54	31	20	10	5	4	3	23	27	
176,680	4.189	27	15	12	8	4	3	3	23	27	
176,760	4.189	26	17	14	9	5	3	2	23	27	
176,841	4.139	25	14	11	7	4	3	2	23	27	
176,921	4.167	45	25	18	10	5	3	2	23	27	
177,001	4.131	55	30	22	13	7	5	3	23	27	
177,080	4.146	66	35	24	13	6	4	2	23	27	fim km 177,130
180,280	4.189	34	22	19	13	7	4	4	21	25	inicio km 180,220
180,359	4.160	50	22	17	10	6	5	4	21	25	
180,441	4.167	72	43	34	20	11	7	5	21	25	
180,521	4.081	104	62	47	27	15	10	7	21	25	
180,600	4.059	86	45	33	20	11	7	5	21	25	
180,679	4.066	95	63	40	15	5	4	3	21	25	
180,760	4.160	50	32	26	17	9	4	2	21	25	
180,840	4.153	50	35	32	24	14	8	5	21	25	
180,920	4.139	56	37	31	22	11	7	4	21	25	
181,001	4.110	55	37	33	24	14	8	6	22	25	
181,079	4.081	90	57	46	29	14	9	6	21	25	
181,160	4.059	139	69	50	29	11	7	5	22	25	
181,219	3.980	141	91	71	44	18	9	5	22	25	
181,319	4.081	121	65	44	21	8	5	4	21	25	
181,399	4.110	99	51	29	14	8	6	4	22	25	
181,479	4.139	58	34	28	19	11	7	5	22	25	
181,559	4.023	152	73	30	13	7	7	5	22	25	
181,640	4.153	59	32	22	14	9	6	4	22	25	fim km 181,685
197,721	3.951	71	34	29	18	9	6	5	34	55	inicio = km 197,660
197,800	3.951	120	41	19	5	6	5	4	35	55	
197,880	3.807	195	51	33	14	8	6	4	34	55	
197,960	3.814	167	85	48	20	12	8	6	35	55	
198,040	3.893	85	39	33	18	11	8	5	35	55	
198,120	3.994	86	32	21	10	6	4	3	34	55	
198,200	3.966	100	35	22	11	4	3	2	35	55	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
198,280	3,958	81	32	20	5	4	3	3	35	55	
198,360	4,016	43	19	14	6	3	3	2	35	55	
198,440	3,944	46	28	21	9	4	3	2	35	55	fim = km 198,485
204,120	3,980	75	38	34	18	7	4	3	35	55	inicio = km 204,040
204,200	3,987	72	33	26	14	7	5	3	34	55	
204,280	3,951	80	41	38	23	11	6	4	35	55	
204,360	4,009	49	23	21	12	6	4	3	34	55	
204,440	3,771	170	70	53	17	7	5	5	34	55	
204,520	3,908	152	56	25	0	1	3	3	35	55	
204,600	3,454	326	107	34	0	0	3	2	35	55	
204,680	4,016	48	22	19	12	6	5	3	35	55	
204,760	3,987	56	24	13	7	4	3	2	34	55	
204,840	4,030	42	18	14	8	5	3	2	35	55	
204,920	4,023	47	21	17	10	6	5	3	35	55	
205,000	3,980	45	21	17	10	5	4	3	35	55	fim = km 205,000
247,481	4,004	34	22	23	17	11	8	5	27	33	inicio = km 247,480
247,560	3,997	49	33	33	24	16	11	7	27	33	
247,661	3,993	36	23	21	16	10	5	4	27	33	
247,722	4,042	33	22	21	16	10	6	4	27	33	
247,803	3,989	70	44	43	32	21	15	10	27	33	
247,879	4,062	43	24	21	15	9	6	3	27	33	
248,040	3,988	89	49	43	28	16	9	5	27	33	km-248 tem 1020 m
248,121	4,058	53	31	28	20	12	8	5	27	33	
248,200	4,051	67	39	33	20	11	6	4	26	33	
248,283	4,071	39	23	21	15	9	6	4	27	33	
248,364	4,056	52	27	24	16	9	5	3	26	33	
248,441	4,069	46	24	20	13	7	4	3	27	33	
248,521	4,035	67	40	36	24	14	9	5	27	33	
248,600	4,087	43	24	20	12	6	3	2	27	33	
248,681	4,087	48	27	23	14	7	3	2	26	33	
248,762	4,056	62	34	27	16	8	5	3	27	33	
248,846	4,046	68	37	29	17	7	3	2	27	33	
248,924	4,087	34	17	13	7	4	2	1	27	33	
249,000	4,103	35	17	14	8	5	3	2	27	33	km-249 tem 984 m
249,080	4,022	80	44	37	24	16	11	7	27	33	
249,160	4,103	36	20	17	10	6	4	3	27	33	
249,242	4,083	29	16	14	9	6	4	3	28	33	
249,321	4,090	53	31	27	17	9	5	3	28	33	
249,404	4,100	40	22	17	10	4	2	1	27	33	
249,483	4,101	37	23	21	14	9	6	4	28	33	
249,560	4,093	34	20	18	12	8	6	4	28	33	
249,640	4,043	66	39	35	22	12	7	4	28	33	
249,721	4,071	66	37	31	20	11	7	4	28	33	
249,802	4,042	70	39	33	20	10	5	3	28	33	
249,882	3,952	86	52	46	30	17	10	6	28	33	
249,967	4,042	51	29	26	19	13	9	6	28	33	
250,042	3,946	66	37	33	22	15	10	6	28	33	km-250 tem 1017 m
250,123	4,046	52	27	21	14	8	5	3	28	33	
250,205	4,004	77	42	37	26	17	12	8	28	33	
250,280	4,028	47	23	17	9	6	3	2	28	33	
250,361	4,004	69	31	22	12	7	5	3	28	33	
250,442	4,040	66	36	30	19	11	8	5	28	33	
250,526	4,085	37	19	16	10	6	4	2	29	33	
250,606	4,080	28	13	10	7	5	3	2	29	33	
250,679	4,049	46	25	22	14	8	4	2	29	33	
250,765	4,076	47	24	20	11	6	3	1	28	33	
250,841	4,090	31	17	14	8	4	2	1	28	33	
250,921	4,080	59	34	29	17	9	4	2	28	33	
251,004	4,054	66	40	37	26	17	11	7	28	33	km-251 tem 945 m
251,084	4,042	77	44	39	24	13	8	5	28	33	
251,162	4,019	74	45	41	28	16	10	6	28	33	
251,241	4,078	44	26	23	14	7	4	2	28	33	
251,323	4,029	79	51	48	32	17	9	4	28	33	
251,400	3,885	127	81	75	44	21	7	1	28	33	
251,480	3,932	116	70	62	41	21	10	4	28	33	
251,566	3,855	145	89	75	48	29	18	11	28	33	
251,643	3,939	68	36	32	20	11	8	5	28	33	
251,724	3,952	87	55	51	36	18	12	7	28	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
251,807	3.878	107	60	57	40	26	17	11	28	33	
251,860	3.934	79	40	32	17	7	2	1	28	33	fim = km 251,860
253,160	3.840	131	63	53	35	21	14	8	28	33	início = km 253,120
253,240	3.925	109	60	51	34	18	12	7	28	33	
253,319	3.874	130	73	63	41	24	15	9	27	33	
253,404	3.948	100	58	51	34	20	13	9	27	33	
253,481	3.772	175	104	99	68	43	28	17	27	33	
253,562	3.999	76	43	35	22	12	6	4	27	33	
253,642	4.022	71	39	33	21	12	8	5	27	33	
253,721	3.988	77	43	38	25	15	10	6	27	33	
253,801	3.948	114	59	49	29	14	7	3	27	33	
253,880	3.974	110	62	51	29	13	6	2	27	33	
254,040	4.039	94	51	40	22	9	3	1	27	33	
254,123	3.970	116	62	54	35	18	8	3	27	33	
254,204	3.914	142	82	73	50	30	19	11	28	33	
254,283	3.953	116	70	60	37	20	11	6	27	33	
254,360	4.035	92	54	45	29	16	10	6	27	33	fim = km 254,440
276,200	4.278	57	45	38	28	19	13	9	24	27	início = km 276,200
276,279	4.269	45	28	21	14	11	9	7	24	28	
276,360	4.296	59	40	31	23	18	14	10	24	28	
276,440	4.303	40	24	18	14	11	8	6	25	28	
276,521	4.333	30	20	13	7	3	1	1	24	28	
276,600	4.290	64	48	40	29	20	14	10	25	28	
276,679	4.285	60	51	45	36	28	19	12	25	27	
276,760	4.325	48	35	26	16	9	4	2	24	28	
276,841	4.280	66	46	35	22	13	7	3	24	30	
276,921	4.292	34	23	18	12	6	3	1	24	30	
277,001	4.309	47	35	27	18	11	7	4	24	31	km 277 tem 990 m
277,079	4.333	52	37	30	21	13	8	5	25	31	
277,159	4.235	80	61	51	39	28	19	13	25	32	
277,240	4.290	67	48	39	28	19	13	9	24	32	
277,319	4.290	32	22	17	12	9	7	5	25	32	
277,400	4.305	27	18	13	9	6	4	3	26	32	
277,480	4.323	40	29	22	15	10	7	5	25	32	
277,560	4.253	56	38	28	18	10	6	4	26	32	
277,640	4.301	44	29	21	13	7	4	2	26	33	
277,720	4.269	31	23	20	16	12	9	7	25	33	
277,801	4.287	35	26	21	15	9	5	3	26	30	
277,882	4.278	55	39	32	22	15	11	8	26	33	
277,962	4.260	31	22	14	10	6	4	3	26	29	
278,042	4.222	112	84	65	47	30	20	12	25	31	km 278 tem 1017 m
278,121	4.307	48	32	25	17	11	6	4	25	32	
278,199	4.192	104	82	69	53	38	27	18	25	33	
278,281	4.312	57	40	28	18	11	8	5	26	31	
278,360	4.314	53	36	26	15	9	6	5	25	33	
278,441	4.283	43	32	27	21	15	10	7	25	32	
278,521	4.269	59	43	35	25	16	11	7	26	33	
278,599	4.321	33	25	21	15	10	7	5	26	32	
278,678	4.312	34	25	19	14	9	6	4	25	34	
278,760	4.285	42	33	27	17	11	7	5	25	33	
278,840	4.292	42	29	23	17	13	10	8	26	33	
278,921	4.330	26	19	15	11	7	6	5	26	33	
279,001	4.271	35	24	18	11	7	5	4	27	32	km 279 tem 985 m
279,079	4.255	63	43	33	23	16	11	7	27	32	
279,159	4.259	82	52	38	27	18	13	9	27	32	
279,241	4.229	76	48	37	26	18	13	9	27	31	
279,321	4.272	49	22	14	6	4	3	2	26	32	
279,401	4.285	60	31	17	9	5	4	2	27	30	
279,481	4.325	53	24	13	8	5	4	3	27	31	
279,560	4.290	47	27	15	9	5	5	3	27	31	
279,641	4.294	35	22	16	10	6	5	4	27	31	
279,720	4.285	60	27	13	7	4	3	3	27	31	
279,801	4.338	31	20	13	8	5	4	3	26	31	
279,879	4.287	58	33	17	9	6	4	3	26	31	
279,960	4.289	43	27	18	10	6	4	3	27	32	fim = km 279,985
281,960	4.285	36	23	16	9	5	3	2	28	33	início = km 281,930

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
282,040	4.303	35	22	15	9	5	3	2	28	33	
282,119	4.273	29	18	13	8	5	3	3	27	33	
282,200	4.287	36	23	16	10	6	4	3	28	34	
282,282	4.307	33	22	15	9	5	3	2	28	33	
282,360	4.326	25	16	12	7	4	3	2	28	34	
282,440	4.328	31	21	15	9	5	3	2	27	34	
282,519	4.329	24	16	11	6	3	2	2	28	33	
282,601	4.300	22	14	10	6	4	3	3	28	33	
282,681	4.292	31	21	16	9	5	3	2	28	33	
282,760	4.287	31	21	16	10	5	3	2	27	33	fim = km 282,820
290,040	4.311	41	25	19	14	9	7	5	28	32	inicio = km 290,040
290,119	4.289	59	38	29	21	15	11	9	28	31	
290,201	4.226	83	58	47	35	25	19	14	27	32	
290,280	4.300	37	24	19	14	9	7	5	28	31	
290,360	4.294	42	28	21	14	8	6	4	28	31	
290,440	4.302	63	46	37	25	17	12	8	28	28	
290,521	4.311	37	25	20	15	11	8	6	27	31	
290,601	4.262	58	34	25	17	12	8	5	28	34	
290,681	4.273	93	60	45	31	20	13	8	27	33	
290,760	4.246	102	63	41	24	13	6	4	27	34	
290,840	4.269	67	39	26	17	10	6	3	27	33	
290,919	4.313	71	38	25	15	9	6	4	28	35	
291,000	4.302	62	36	24	15	10	6	4	28	33	km 291 tem 1000 m
291,080	4.274	60	36	25	15	9	7	5	28	35	
291,163	4.183	158	117	93	65	42	27	17	28	34	
291,240	4.262	86	58	45	33	24	18	13	27	35	
291,321	4.208	115	80	60	37	20	10	5	28	33	
291,400	4.287	71	41	26	15	9	6	4	27	34	
291,482	4.251	52	28	18	11	7	5	4	28	30	
291,560	4.257	63	36	23	13	8	5	4	28	31	
291,640	4.290	77	42	21	11	6	4	3	27	32	
291,720	4.267	60	30	19	9	5	3	3	27	32	
291,800	4.266	45	24	14	7	4	3	3	28	33	
291,880	4.270	74	44	22	12	6	4	3	27	32	
291,960	4.287	63	33	19	10	5	4	3	27	32	
292,040	4.266	46	25	15	8	5	3	3	27	33	fim = km 292,040
293,400	4.475	48	32	23	16	11	8	5	23	28	inicio = km 293,360
293,480	4.423	71	48	37	26	18	14	10	24	28	
293,560	4.404	56	36	27	19	14	12	9	24	28	
293,641	4.366	65	45	34	23	17	13	10	24	28	
293,720	4.322	84	57	44	32	23	17	11	24	28	
293,800	4.286	96	70	57	43	33	24	17	24	28	
293,879	4.298	101	79	65	48	35	23	15	24	28	
293,960	4.377	40	26	20	15	12	9	8	24	29	
294,040	4.338	43	27	20	13	9	7	5	25	30	fim = km 294,080
296,280	4.338	56	38	31	24	17	13	9	25	29	inicio = km 296,171
296,362	4.334	94	65	49	34	23	16	12	25	30	
296,441	4.230	161	116	90	66	44	29	18	24	29	
296,520	4.232	160	119	95	70	47	31	20	25	30	
296,600	4.284	99	66	47	32	20	13	9	25	31	
296,681	4.222	179	131	101	69	41	23	12	25	30	
296,760	4.284	104	68	47	29	15	8	4	25	30	
296,840	4.340	100	70	54	38	25	16	11	25	32	
296,922	4.272	119	82	60	39	23	14	9	26	29	
297,000	4.263	130	91	68	46	27	15	9	26	30	fim = km 297,000
300,280	4.342	48	24	13	9	6	4	3	25	29	inicio = km 300,240
300,360	4.349	80	53	39	27	18	13	10	26	31	
300,440	4.284	124	92	75	55	38	26	17	26	31	
300,520	4.324	53	32	23	15	11	8	6	27	29	
300,601	4.340	54	32	24	16	10	7	5	26	29	
300,680	4.349	51	29	20	14	9	6	4	27	27	fim = km 300,720
301,240	4.189	165	110	82	56	34	20	10	27	31	inicio = km 301,240

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
301,320	4.327	97	57	38	23	12	7	3	27	31	
301,399	4.276	111	70	51	32	18	9	5	28	29	
301,479	4.347	57	31	22	14	10	8	6	28	31	fim = km 301,479
424,330	4.330	14	10	9	7	6	5	4	27	30	inicio = km 424,320
424,410	4.308	15	12	10	8	6	5	4	27	30	
424,482	4.310	13	8	7	5	5	4	3	27	30	
424,558	4.342	27	19	15	11	7	5	4	27	30	
424,639	4.321	16	12	11	10	8	7	6	27	30	
424,719	4.313	14	11	9	8	7	6	5	27	30	
424,802	4.294	15	12	10	9	7	6	5	27	30	
424,880	4.349	14	11	10	9	8	7	6	27	30	
424,960	4.366	15	12	11	10	8	7	5	27	30	
425,040	4.310	15	12	11	9	8	7	5	27	30	km 424 = 1037m
425,040	4.331	15	12	11	10	8	7	6	27	30	
425,119	4.319	15	11	10	9	7	6	5	27	30	
425,202	4.387	12	9	9	8	7	6	5	27	30	
425,280	4.403	16	12	11	10	8	7	6	27	30	
425,360	4.365	20	16	14	11	9	7	6	27	30	
425,440	4.256	36	26	20	12	8	7	6	27	30	
425,518	4.354	20	15	13	10	8	7	5	27	30	
425,600	4.321	19	14	12	9	8	7	5	27	30	
425,679	4.324	19	13	12	10	8	7	6	27	30	
425,762	4.367	20	15	13	11	8	7	5	27	30	
425,840	4.301	17	13	11	10	8	7	5	27	30	
425,921	4.303	20	15	13	12	9	8	6	27	30	km 425 = 1000m
426,000	4.403	17	13	11	9	8	7	5	27	30	
426,079	4.245	30	23	20	18	13	9	6	27	30	
426,159	4.340	21	16	15	12	10	8	6	27	30	
426,240	4.326	24	19	17	14	11	9	7	27	30	
426,319	4.346	16	14	13	11	9	7	5	27	30	
426,400	4.330	30	23	21	16	13	10	8	27	30	
426,481	4.294	25	20	19	16	13	11	8	27	30	
426,561	4.303	20	17	16	14	12	10	8	27	30	
426,640	4.335	19	15	14	13	10	9	6	27	30	
426,719	4.305	19	16	15	13	11	9	7	27	30	
426,801	4.358	17	13	11	10	8	7	5	27	30	
426,882	4.329	21	17	15	13	10	8	6	27	30	
426,960	4.294	25	20	19	16	13	11	8	27	30	km 426 = 988m
427,040	4.326	19	14	13	10	9	7	6	27	30	
427,121	4.310	16	13	12	10	8	7	6	27	30	
427,199	4.303	43	33	28	20	14	9	7	27	30	
427,280	4.256	36	26	20	12	8	7	6	27	30	fim = km 427,320
439,041	4.329	20	13	11	9	7	6	5	33	44	inicio = km 439,000
439,121	4.335	17	11	10	8	6	5	4	33	44	
439,201	4.329	20	13	11	9	7	6	5	33	44	
439,281	4.244	47	33	28	21	15	11	8	33	44	
439,361	4.327	28	21	19	16	13	10	8	33	44	
439,441	4.325	30	22	19	16	12	10	8	33	44	
439,521	4.346	25	19	17	14	11	9	7	33	44	
439,601	4.300	19	13	11	9	8	6	5	33	44	
439,681	4.325	30	22	19	16	12	10	8	33	44	
439,761	4.327	36	25	22	17	13	10	7	33	44	
439,841	4.300	47	27	33	26	19	14	9	33	44	
439,921	4.293	32	23	19	15	12	9	7	33	44	km 439 = 936m
440,001	4.346	25	19	17	14	11	9	7	33	44	
440,081	4.327	36	25	22	17	13	10	8	33	44	fim = km 440,120
449,000	3.605	60	55	44	33	21	12	8	28	29	inicio = km 449,000
449,080	3.598	58	43	33	25	16	10	8	28	29	
449,163	3.591	89	70	52	34	21	11	9	28	30	
449,240	3.511	88	69	48	32	17	10	8	28	29	
449,320	3.583	67	67	45	34	19	10	7	28	30	
449,401	3.634	50	45	33	24	16	10	7	28	30	
449,480	3.540	61	49	38	27	17	11	8	28	30	
449,561	3.627	48	40	31	23	17	11	8	28	30	
449,641	3.547	83	64	48	32	17	10	8	28	30	
449,723	3.569	81	73	52	37	19	11	7	28	30	fim = km 449,730

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
454,040	3.612	42	32	24	17	10	6	4	28	29	inicio = km 454,000
454,120	3.627	47	41	31	22	13	7	5	28	29	
454,200	3.526	93	73	57	44	21	12	9	28	29	
454,281	3.576	74	65	44	28	14	9	7	28	29	
454,362	3.576	53	50	41	31	20	12	8	28	29	
454,442	3.591	42	35	29	23	16	10	7	28	29	
454,521	3.562	47	41	32	25	17	11	8	28	29	
454,603	3.591	58	50	39	28	17	10	7	28	29	
454,682	3.562	46	38	30	25	16	9	6	28	29	
454,760	3.605	39	33	26	20	13	8	6	28	29	
454,838	3.576	60	53	44	35	24	15	10	28	29	
454,918	3.627	29	24	21	17	12	8	6	28	29	
455,000	3.634	43	38	30	23	15	9	7	28	29	fim = km 455,000
455,800	3.569	64	58	51	43	31	21	15	28	29	inicio = km 455,750
455,881	3.591	45	38	31	24	18	12	9	28	29	
455,961	3.612	36	32	28	24	18	13	10	28	29	
456,040	3.403	160	131	101	73	43	22	14	28	30	
456,121	3.526	64	59	43	35	21	13	10	28	29	
456,201	3.540	79	64	54	34	21	14	10	28	29	
456,282	3.547	93	73	46	30	17	11	8	28	29	
456,361	3.619	40	32	23	16	10	7	5	28	29	
456,442	3.641	41	33	27	21	15	9	6	28	29	
456,522	3.583	66	52	39	28	17	11	8	28	30	
456,603	3.612	45	40	32	25	17	11	8	28	29	
456,680	3.627	25	24	21	18	15	10	7	28	29	
456,759	3.641	26	25	22	19	15	11	8	28	29	
456,840	3.612	37	28	21	15	10	7	5	28	29	
456,922	3.526	76	66	55	45	31	19	13	28	29	
457,000	3.490	117	112	89	66	45	30	17	28	29	
457,081	3.518	123	126	89	68	34	15	8	28	29	
457,162	3.641	32	27	21	18	13	9	7	28	30	
457,241	3.598	41	38	32	25	17	10	7	28	29	
457,321	3.576	56	46	37	26	17	10	7	28	29	
457,400	3.619	38	34	27	20	13	8	7	28	30	
457,480	3.555	67	60	46	36	24	15	10	28	29	
457,557	3.634	15	13	11	9	7	5	4	28	30	
457,639	3.569	52	46	36	26	16	8	4	28	30	
457,720	3.540	54	46	36	27	16	8	5	28	30	
457,800	3.648	30	23	17	12	6	3	1	28	30	
457,881	3.576	67	49	31	23	12	7	4	28	30	
457,962	3.648	17	16	14	12	10	7	6	28	30	fim = km 457,970
459,640	3.598	30	29	25	20	14	9	7	28	30	inicio = km 459,560
459,719	3.591	48	46	36	27	17	10	7	28	30	
459,800	3.562	61	53	43	32	22	14	9	28	30	
459,883	3.468	81	74	67	50	28	16	10	28	30	
459,961	3.619	39	33	27	20	13	8	7	28	30	
460,040	3.634	17	14	13	11	8	6	4	28	30	
460,122	3.490	93	74	53	35	20	11	7	28	30	
460,201	3.627	25	23	19	16	11	7	5	28	30	
460,280	3.605	43	37	29	21	14	8	6	28	30	fim = km 460,285
463,000	3.627	20	16	14	12	8	6	4	28	31	inicio = km 463,000
463,080	3.598	32	25	20	15	10	6	5	28	31	
463,160	3.605	25	20	17	14	10	7	5	28	31	
463,237	3.547	39	31	25	20	13	7	6	28	31	
463,318	3.619	22	17	14	11	8	5	3	28	31	
463,399	3.634	17	15	14	12	9	6	5	28	31	
463,479	3.612	32	28	22	17	11	7	5	28	31	
463,559	3.627	36	32	27	22	16	11	9	28	31	
463,640	3.583	41	36	28	22	14	7	5	28	31	
463,721	3.511	47	36	28	21	14	8	6	28	31	
463,801	3.583	60	51	48	32	20	10	7	28	31	
463,883	3.389	88	87	75	51	28	15	11	28	32	
463,961	3.432	132	116	88	59	25	11	7	28	31	
464,042	3.562	49	46	37	29	20	12	9	28	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
464,120	3.555	50	49	42	34	24	13	9	28	32	
464,199	3.482	85	79	67	54	33	17	11	28	32	
464,281	3.389	113	107	82	64	39	21	13	28	32	
464,363	3.648	25	31	25	18	13	8	6	28	32	
464,442	3.583	20	23	20	16	12	8	6	28	32	
464,521	3.641	25	23	19	15	11	7	5	28	32	
464,600	3.655	34	35	28	21	13	7	6	28	32	
464,681	3.641	21	19	16	12	9	5	4	28	32	
464,762	3.627	42	38	31	23	14	8	6	28	32	
464,843	3.627	25	22	18	14	9	6	4	28	32	
464,920	3.655	25	19	14	10	5	2	1	28	32	fim = km 465,000
466,840	3.605	35	33	27	21	14	8	5	28	32	inicio = km 466,821
466,920	3.627	31	28	22	16	9	4	1	28	32	
466,999	3.605	42	35	28	20	11	5	2	28	32	
467,080	3.627	35	31	26	20	14	8	5	28	33	
467,080	3.655	18	16	13	10	7	5	3	28	32	fim = km 467,110
469,330	3.634	19	17	14	11	8	5	4	28	33	inicio = km 469,280
469,400	3.648	15	13	11	10	7	5	4	28	32	
469,481	3.627	14	14	12	11	8	6	5	28	32	
469,561	3.641	19	16	13	11	8	5	4	28	32	
469,641	3.634	12	11	9	8	6	4	4	28	32	
469,721	3.634	11	8	7	6	5	4	3	28	32	
469,801	3.634	10	8	7	6	5	4	3	28	32	
469,883	3.612	10	9	7	6	5	3	3	28	32	
469,960	3.591	35	37	25	18	10	5	4	28	33	fim = km 470,050
473,200	3.980	24	17	13	9	6	4	3	22	25	inicio = km 473,180
473,280	3.937	13	17	14	10	7	4	3	22	25	
473,362	3.944	12	16	13	0	6	4	3	22	25	
473,441	3.742	22	15	11	8	5	3	2	22	25	
473,522	3.728	16	10	8	6	4	3	2	22	26	
473,601	3.735	13	9	7	6	4	3	2	22	26	
473,681	3.735	12	7	6	4	3	2	1	22	26	
473,762	3.756	26	19	15	12	8	5	4	22	26	
473,842	3.785	16	11	9	7	5	3	2	22	26	km 473 = 847m
474,000	3.778	17	11	9	7	5	3	2	22	26	
474,083	3.778	17	12	9	7	4	3	2	22	26	
474,161	3.756	18	12	10	7	5	3	2	22	26	
474,240	3.771	19	11	8	6	4	3	2	22	26	
474,319	3.756	24	17	14	11	7	5	3	22	26	
474,401	3.792	16	11	8	6	4	3	2	22	26	
474,480	3.764	19	12	10	7	6	4	3	22	27	
474,558	3.785	13	10	8	6	4	3	2	22	26	
474,640	3.764	29	22	18	14	9	6	4	22	26	
474,720	3.749	30	20	15	11	8	5	4	22	26	
474,801	3.785	16	11	9	7	5	4	3	22	26	
474,881	3.742	31	23	17	11	7	5	4	22	26	
474,962	3.771	14	9	7	5	4	3	2	22	26	km 474 = 979m
475,043	3.735	25	18	15	11	8	5	4	22	26	
475,120	3.764	27	19	15	11	7	5	4	22	26	
475,201	3.778	19	14	10	7	4	2	1	22	26	
475,283	3.807	23	16	13	10	7	5	4	22	26	
475,360	3.792	25	18	14	9	6	3	2	22	26	
475,440	3.742	32	25	21	15	11	8	6	22	26	fim = km 475,500
478,800	3.706	31	22	18	14	10	7	5	27	28	inicio = km 478,750
478,880	3.677	24	19	17	14	11	8	7	27	29	
478,960	3.699	25	16	12	8	5	3	3	27	29	km 478 = 995m
479,041	3.713	28	16	12	8	5	4	3	27	28	
479,120	3.655	43	32	26	19	14	10	8	27	29	
479,200	3.677	24	17	14	10	7	4	3	27	29	
479,280	3.655	64	41	28	18	11	7	6	27	28	
479,361	3.591	69	44	35	22	13	9	6	27	29	
479,441	3.555	115	81	54	34	21	11	8	27	28	
479,521	3.677	52	37	29	21	13	7	6	27	28	
479,600	3.699	33	25	21	16	10	6	5	27	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 0,0 ao km 773,4				DATA: fev/2007	
PISTA:	Crescente				FAIXA:	Adicional					
SENTIDO:	DF/MG				ENSAIO:	a cada 80 m					
479,680	3,728	32	25	19	13	7	4	2	27	29	
479,761	3,684	39	25	19	14	10	7	5	27	29	
479,842	3,677	41	29	23	16	10	6	4	27	28	fim = km 479,900
482,402	3,677	33	23	17	12	7	4	3	27	29	inicio = km 482,400
482,481	3,569	96	60	36	18	10	5	4	27	29	
482,562	3,648	55	30	22	15	10	6	5	27	29	
482,640	3,627	65	34	23	15	10	6	5	27	29	
482,720	3,634	37	21	16	11	8	5	4	27	30	
482,800	3,684	29	20	15	11	8	5	4	27	30	
482,880	3,612	87	55	40	23	13	7	6	27	30	km 482 = 937m
483,000	3,663	48	34	26	18	11	6	5	27	30	
483,079	3,641	46	32	24	16	9	5	3	27	30	
483,159	3,627	46	32	24	16	9	5	3	27	30	
483,239	3,648	40	27	19	12	6	3	2	27	30	
483,320	3,677	45	28	18	11	6	3	2	27	30	
483,402	3,619	69	42	27	14	7	4	3	27	30	
483,480	3,670	49	34	22	13	5	4	3	27	29	
483,559	3,641	58	37	25	16	9	5	3	27	30	
483,641	3,648	63	41	28	17	9	6	4	27	29	
483,721	3,670	47	30	20	12	6	4	3	27	30	
483,799	3,641	51	34	24	16	9	5	4	27	30	
483,882	3,619	54	35	24	14	7	4	3	27	30	
483,961	3,641	41	29	21	14	8	5	4	27	30	km 483 = 1059m
484,000	3,648	51	33	23	15	8	4	3	27	30	
484,080	3,648	38	23	14	8	4	2	1	27	30	
484,162	3,655	38	25	17	11	6	3	2	27	30	
484,240	3,677	47	32	22	14	7	3	2	27	30	
484,318	3,634	58	44	31	20	12	7	5	27	30	
484,398	3,634	64	42	26	17	11	7	6	27	30	
484,480	3,612	80	43	25	14	8	6	5	27	30	
484,560	3,583	69	44	29	18	10	6	5	27	30	
484,641	3,684	34	23	16	11	6	4	4	27	30	
484,721	3,619	67	39	25	15	8	4	3	27	30	
484,801	3,663	47	31	22	15	9	5	4	27	30	
484,881	3,641	76	53	31	14	8	5	3	27	30	
484,962	3,598	66	43	29	16	9	5	3	27	30	km 484 = 1015m
485,041	3,634	78	45	31	19	10	6	4	27	30	
485,120	3,612	73	45	29	17	10	6	4	27	30	
485,201	3,634	78	48	34	21	10	6	4	27	30	
485,282	3,648	63	42	30	19	10	5	4	27	30	fim = km 485,350
544,041	4,411	71	50	33	21	12	8	6	31	33	inicio = km 544,000
544,119	4,471	44	30	22	14	8	4	3	31	35	
544,200	4,457	44	31	24	17	10	6	3	31	35	
544,283	4,501	28	20	15	9	5	3	2	31	34	
544,360	4,471	27	19	14	9	5	3	2	31	32	
544,442	4,485	32	20	14	9	5	4	3	31	33	
544,519	4,489	32	23	17	11	7	5	3	32	32	
544,599	4,509	30	21	15	10	5	3	3	30	32	
544,682	4,495	31	21	16	10	6	4	3	29	32	
544,759	4,454	52	35	27	17	9	6	4	28	32	
545,320	4,549	24	16	11	6	3	2	2	27	32	
545,400	4,514	23	16	12	8	4	2	2	27	31	
545,481	4,518	18	12	9	5	3	2	1	28	30	
545,560	4,530	18	12	9	5	3	2	1	27	30	
545,640	4,468	36	25	19	12	7	4	3	27	31	
545,721	4,506	36	24	18	11	6	4	3	26	32	
546,040	4,479	28	19	13	8	5	3	2	26	32	
546,119	4,495	20	14	11	8	6	4	3	26	30	
546,199	4,503	35	23	18	12	6	3	2	27	30	
546,281	4,460	31	22	18	13	8	4	3	26	29	
546,359	4,475	43	30	25	18	12	8	5	26	31	
546,439	4,420	54	37	28	18	10	7	4	26	32	
546,519	4,489	48	36	30	21	14	9	5	26	32	
546,599	4,457	56	42	34	24	15	9	5	27	32	
546,679	4,470	49	36	30	22	14	9	6	25	32	
546,760	4,487	40	27	20	11	6	3	2	26	32	
546,840	4,498	66	46	32	14	6	2	1	26	31	
546,919	4,434	66	44	31	18	10	6	4	26	32	

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0							DATA: fev/2007		
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
470,440	3.497	31	25	22	16	12	8	6	21	24	
470,360	3.504	30	24	20	16	11	7	5	21	24	
470,281	3.526	10	10	9	8	6	4	3	21	24	
470,202	3.504	21	17	16	14	11	8	6	21	24	
470,122	3.518	49	35	24	17	10	7	5	22	24	
470,040	3.533	13	10	9	8	6	4	3	22	25	
469,959	3.533	12	9	8	6	5	3	2	22	25	km 469 = 1028m
469,878	3.526	12	11	9	8	6	4	3	22	25	
469,799	3.518	10	8	7	6	5	4	3	22	25	
469,720	3.518	10	8	7	6	5	4	3	22	25	
469,641	3.468	12	11	9	8	6	4	3	22	25	
469,557	3.518	12	11	9	8	6	5	4	22	25	
469,479	3.497	12	12	11	10	8	6	5	24	25	
469,399	3.490	12	10	9	8	6	5	4	24	25	
469,319	3.518	11	9	8	7	5	4	3	24	26	
469,240	3.518	10	8	7	6	5	4	3	24	26	
469,160	3.490	9	7	6	6	5	4	3	24	26	
469,079	3.518	9	7	6	5	4	3	2	24	26	
469,000	3.497	14	10	9	8	6	4	3	24	26	
468,920	3.504	15	13	12	10	8	6	5	24	26	km 468 = 945m
468,839	3.504	19	16	15	13	10	7	6	24	26	
468,758	3.511	13	11	10	8	7	5	4	24	27	
468,677	3.518	11	9	9	8	7	5	4	24	26	
468,600	3.497	8	6	6	5	5	4	3	24	27	
468,520	3.482	10	7	7	6	5	4	3	24	27	
468,440	3.425	12	10	9	8	6	5	4	24	27	
468,360	3.418	51	35	25	17	10	6	4	24	27	
468,278	3.504	7	6	5	5	4	4	3	24	27	
468,200	3.490	8	6	5	4	3	2	2	24	27	
468,123	3.468	9	7	6	5	4	3	2	24	27	
468,042	3.475	13	10	9	7	6	4	3	24	27	
467,960	3.461	10	8	7	6	4	3	2	24	27	km 467 = 970m
467,880	3.454	18	15	14	12	9	6	4	24	28	
467,800	3.504	16	13	11	10	8	6	4	24	28	
467,720	3.497	11	10	9	8	7	5	4	24	28	
467,640	3.482	11	9	8	7	6	4	4	24	28	
467,558	3.497	12	10	9	8	6	4	3	24	27	
467,480	3.504	10	9	8	8	6	5	4	24	27	
467,402	3.439	18	13	12	10	8	6	5	24	27	
467,321	3.454	23	19	17	15	11	8	6	24	27	
467,242	3.475	14	11	10	8	7	5	4	24	28	
467,158	3.454	15	11	10	9	7	5	4	26	28	
467,080	3.468	16	12	11	9	7	5	4	26	27	
467,000	3.475	14	11	10	9	7	5	4	26	28	
466,920	3.468	16	13	11	10	7	5	4	26	28	km 466 = 1126m
466,840	3.490	14	11	9	6	4	2	1	26	28	
466,759	3.475	9	8	7	6	5	3	3	26	28	
466,678	3.446	13	12	11	9	7	5	4	26	28	
466,597	3.454	28	24	21	17	13	9	7	26	28	
466,517	3.468	12	10	9	8	6	5	4	26	28	
466,436	3.446	15	13	12	11	9	7	6	26	28	
466,355	3.461	11	9	9	8	6	5	4	26	28	
466,274	3.454	18	16	15	13	10	7	5	26	28	
466,193	3.418	18	16	15	13	11	8	6	26	28	
466,112	3.396	51	40	32	24	16	10	8	26	29	
466,031	3.439	40	29	23	18	12	8	6	26	28	
465,950	3.454	31	22	17	13	9	6	4	26	29	
465,869	3.446	25	18	15	12	8	5	4	26	28	km 465 = 1047m
465,788	3.331	147	104	69	33	17	9	8	26	28	
465,707	3.425	32	25	20	16	11	7	4	26	28	
465,626	3.454	29	22	17	13	7	4	2	26	29	
465,545	3.446	52	34	25	17	8	4	2	26	28	
465,464	3.432	65	45	33	21	13	8	6	26	29	
465,383	3.454	18	15	13	11	9	6	5	26	29	
465,302	3.446	18	15	13	12	10	7	6	26	29	
465,221	3.403	59	43	35	26	17	10	7	26	29	
465,140	3.446	25	19	16	12	9	6	4	26	29	
465,059	3.425	14	11	9	8	6	4	3	26	29	
464,978	3.439	24	18	15	13	9	6	4	26	29	
464,897	3.439	29	24	21	17	10	6	3	26	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
465,000	3.468	13	10	9	7	5	3	2	26	29	
464,920	3.475	15	11	10	8	6	4	2	26	30	km 464 = 934m
464,841	3.432	19	16	14	12	9	6	5	28	30	
464,758	3.454	21	17	14	12	9	6	4	28	30	
464,678	3.425	21	17	15	12	9	6	4	28	30	
464,597	3.432	31	23	19	15	11	7	5	28	30	
464,520	3.425	19	15	13	11	8	6	4	28	30	
464,442	3.418	18	13	11	9	7	4	3	28	30	
464,362	3.425	30	23	19	15	10	6	4	28	30	
464,278	3.331	89	71	61	48	32	19	12	28	30	
464,200	3.374	59	50	43	36	26	17	11	28	30	
464,119	3.410	37	31	27	23	17	12	8	28	30	
464,040	3.396	59	49	42	35	25	16	11	28	30	
463,959	3.345	94	72	57	41	23	12	7	28	29	km 463 = 1000m
463,880	3.360	74	62	55	40	28	14	8	28	30	
463,800	3.418	38	31	27	22	15	9	6	28	29	
463,718	3.389	17	14	13	11	9	6	5	28	29	
463,640	3.425	22	18	16	14	11	8	6	28	30	
463,563	3.381	31	25	22	18	14	9	7	28	30	
463,480	3.418	26	23	21	19	15	11	8	28	29	
463,401	3.425	29	23	19	15	10	7	5	28	30	
463,322	3.425	25	20	16	13	9	5	4	28	29	
463,240	3.410	32	26	23	19	13	8	5	28	30	
463,158	3.396	32	25	21	17	12	8	5	28	30	
463,000	3.410	23	19	16	14	10	6	4	28	30	
462,919	3.396	22	19	16	14	11	8	6	28	30	km 462 = 1105m
462,920	3.367	29	24	20	16	11	7	4	28	30	
462,837	3.396	23	17	15	12	9	6	5	28	31	
462,757	3.353	53	41	33	27	20	13	9	28	31	
462,677	3.360	43	28	19	13	8	5	4	28	31	
462,597	3.331	45	35	29	23	17	12	9	28	31	
462,519	3.331	74	55	45	35	24	16	11	28	31	
462,438	3.187	146	123	98	71	40	25	16	28	31	
462,358	3.309	69	54	44	33	22	13	9	28	31	
462,278	3.345	47	38	32	25	18	11	8	28	32	
462,197	3.302	78	57	48	33	21	11	8	28	31	
462,116	3.360	43	30	24	18	12	7	4	28	32	
462,037	3.338	33	31	27	19	14	9	6	30	32	
461,800	3.288	86	74	56	48	32	18	13	30	32	km 461 = 858m
461,720	3.353	48	41	35	27	19	11	8	30	32	
461,639	3.093	126	115	78	55	32	19	14	30	32	
461,557	3.381	50	34	24	15	7	4	2	30	32	
461,480	3.410	25	14	10	7	4	2	1	30	32	
461,400	3.245	107	50	39	26	16	9	6	30	32	
461,322	3.338	60	49	40	31	20	11	7	30	32	
461,240	3.324	66	56	44	33	21	11	7	30	32	
461,159	3.223	114	84	66	48	31	18	15	30	32	
461,079	3.259	106	71	46	29	16	10	7	30	32	
461,000	3.309	86	56	42	31	20	12	8	30	33	
460,920	3.230	123	100	70	51	27	14	10	30	33	km 460 = 1103m
460,920	3.338	57	46	40	32	23	15	11	30	33	
460,840	3.208	161	112	75	47	27	16	11	30	33	
460,760	3.353	49	39	30	22	14	9	7	30	33	
460,678	3.324	98	79	36	21	11	7	6	30	33	
460,600	3.252	131	95	69	42	21	12	8	30	33	
460,520	3.317	79	55	36	22	11	7	5	30	33	
460,440	3.360	22	18	16	13	10	7	5	30	33	
460,359	3.245	131	88	52	29	10	5	5	30	33	
460,281	3.309	89	65	51	35	19	10	6	30	33	
460,200	3.381	46	33	26	18	10	5	4	30	32	
460,119	3.403	39	28	22	16	10	6	4	30	33	
460,038	3.403	24	16	14	11	8	6	5	30	33	
459,960	3.367	42	34	29	23	16	10	8	30	33	km 459 = 1056m
459,880	3.360	38	34	30	26	20	14	10	30	32	
459,799	3.338	27	23	19	18	14	10	7	30	33	
459,720	3.338	22	18	17	15	11	8	6	30	33	
459,640	3.360	30	26	23	19	15	10	8	30	33	
459,560	3.317	74	58	49	39	28	19	13	30	33	
459,480	3.381	14	12	10	8	6	4	3	30	33	
459,402	3.374	15	11	9	8	6	4	3	30	33	
459,322	3.360	16	12	11	9	7	5	4	30	33	
459,240	3.367	16	12	11	10	8	6	5	30	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
459,160	3.317	79	51	32	22	13	9	7	30	33	
459,079	3.317	62	48	37	28	17	10	7	30	33	
459,000	3.374	33	25	20	15	10	7	5	30	34	
458,760	3.367	36	28	23	19	14	9	7	30	34	km 458 = 816m
458,681	3.245	94	73	60	49	32	20	13	30	33	
458,600	3.288	77	69	64	52	38	20	11	30	33	
458,520	3.331	54	45	39	32	23	15	12	30	34	
458,439	3.317	48	41	31	25	15	8	5	30	33	
458,359	3.389	32	25	21	16	10	6	4	30	34	
458,278	3.273	112	79	66	53	26	18	12	30	34	
458,200	3.353	45	39	34	29	21	14	10	30	33	
458,122	3.389	26	20	18	15	12	8	6	30	33	
458,037	3.381	22	17	15	13	11	8	7	30	33	
457,999	3.389	23	19	14	12	8	5	4	30	33	
457,960	3.374	40	32	26	22	16	10	7	30	33	km 457 = 1041m
457,877	3.425	10	9	8	7	6	4	3	30	34	
457,800	3.396	27	20	15	11	7	3	2	30	33	
457,720	3.381	29	19	16	12	9	6	5	30	33	
457,642	3.288	95	69	53	36	19	9	5	30	34	
457,560	3.317	46	36	29	23	16	10	7	30	33	
457,479	3.288	57	43	37	31	24	18	14	30	34	
457,398	3.353	33	24	19	15	12	9	7	30	34	
457,318	3.288	71	54	46	36	25	17	12	30	34	
457,240	3.281	37	26	21	16	11	7	5	30	34	
457,160	3.266	48	37	31	26	18	12	10	30	34	
457,081	3.338	35	28	23	19	14	9	7	30	34	
457,000	3.266	26	23	22	19	16	11	9	30	34	
456,920	3.324	26	21	18	17	12	9	8	30	34	km 456 = 1044m
456,839	3.331	38	28	22	17	11	7	5	30	35	
456,758	3.324	35	27	24	20	15	10	7	30	35	
456,680	3.288	27	24	21	19	15	10	8	30	34	
456,599	3.396	20	17	15	12	9	6	4	30	34	
456,519	3.338	30	24	21	18	13	9	7	30	34	
456,439	3.345	36	27	21	16	11	7	5	30	35	
456,360	3.338	53	41	32	24	15	9	7	30	35	
456,281	3.345	49	37	29	22	15	9	7	30	35	
456,203	3.317	61	44	37	27	17	10	7	33	35	
456,120	3.281	69	49	39	30	19	11	7	33	35	
456,040	3.259	37	33	27	23	18	11	9	33	35	
456,000	3.295	74	58	46	35	23	14	10	33	35	
455,944	3.317	45	36	30	24	16	10	7	33	35	km 455 = 1049m
455,879	3.295	50	39	33	27	19	12	8	33	35	
455,799	3.259	60	49	43	34	24	14	9	33	35	
455,720	3.338	32	26	22	18	14	9	7	33	35	
455,639	3.237	57	49	41	31	21	12	8	33	35	
455,559	3.317	52	39	34	28	20	12	8	33	35	
455,479	3.345	36	29	25	22	17	11	9	33	35	
455,399	3.302	60	49	41	32	22	13	8	33	35	
455,321	3.295	45	37	32	26	19	12	8	33	35	
455,240	3.201	125	89	71	53	34	20	14	33	35	
455,158	3.302	39	27	21	16	10	7	6	33	35	
455,080	3.324	33	23	17	13	9	6	5	33	35	
455,000	3.338	29	20	16	13	9	6	5	33	36	
454,919	3.324	52	37	28	20	13	7	5	33	35	km 454 = 1000m
454,837	3.345	32	21	16	12	8	5	5	33	35	
454,760	3.345	37	25	20	15	11	7	5	33	35	
454,680	3.317	26	23	19	18	12	8	6	33	35	
454,600	3.324	44	29	21	16	11	7	6	33	35	
454,519	3.331	41	28	22	16	10	6	5	33	35	
454,440	3.309	45	31	24	18	11	7	6	33	35	
454,360	3.317	30	21	17	13	9	6	5	33	35	
454,280	3.194	25	36	29	21	15	9	6	33	35	
454,198	3.281	73	53	41	30	17	10	7	33	36	
454,117	3.151	60	51	40	30	19	11	7	33	36	
454,039	3.317	38	30	24	19	14	9	6	33	35	
453,951	3.367	16	14	13	11	9	6	4	33	36	km 453 = 1000m
453,880	3.273	33	28	25	20	15	9	5	33	36	
453,800	3.288	74	50	34	22	13	9	8	33	36	
453,719	3.309	47	32	24	17	12	8	7	33	35	
453,642	3.317	59	39	26	17	9	6	5	33	35	
453,558	3.302	117	62	29	13	7	6	5	33	35	
453,479	3.266	143	85	29	14	8	6	5	33	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
453,397	3.389	18	15	14	12	10	7	6	33	36	
453,320	3.360	15	12	11	10	8	6	5	33	36	
453,238	3.360	15	12	12	11	9	7	6	33	36	
453,160	3.374	17	14	13	12	10	7	6	33	35	
453,083	3.374	15	11	11	10	8	6	5	33	36	
453,000	3.381	14	11	10	9	8	6	5	33	35	
452,919	3.338	14	12	12	11	9	7	6	33	36	km 452 = 982m
452,837	3.381	16	13	12	11	9	6	5	33	35	
452,758	3.396	14	12	12	11	9	7	6	33	35	
452,680	3.381	18	15	14	12	10	8	6	33	35	
452,598	3.367	12	11	10	9	8	6	5	33	35	
452,519	3.360	15	12	11	10	9	6	5	33	35	
452,440	3.367	14	12	11	11	9	7	6	33	35	
452,361	3.374	14	12	11	10	8	6	5	33	34	
452,281	3.374	20	17	15	14	11	8	7	33	34	
452,200	3.374	23	19	17	15	12	8	6	33	34	
452,118	3.374	19	14	13	11	9	6	5	33	34	
452,030	3.345	14	12	11	10	8	6	5	33	34	
451,880	3.374	16	14	13	11	9	6	5	33	34	km 451 = 945m
451,801	3.374	16	14	12	10	8	5	4	33	34	
451,721	3.389	12	10	9	8	6	4	3	33	34	
451,638	3.360	19	13	10	8	5	3	3	33	34	
451,557	3.381	27	21	15	11	7	5	4	33	34	
451,478	3.367	18	12	10	7	5	3	2	33	33	
451,400	3.367	24	15	11	8	5	3	3	33	34	
451,319	3.345	14	9	8	7	6	4	4	33	33	
451,242	3.360	14	12	11	10	8	6	5	33	34	
451,161	3.345	17	12	11	10	8	6	5	33	34	
451,080	3.345	14	11	10	9	8	6	5	33	34	
450,999	3.338	26	20	18	16	13	10	8	33	33	km 450 = 995m
450,917	3.360	18	15	14	13	11	8	6	33	34	
450,840	3.360	13	10	9	9	7	6	5	33	34	
450,757	3.396	14	12	11	9	8	6	5	33	33	
450,677	3.353	14	13	11	10	8	6	5	33	34	
450,600	3.345	18	15	14	13	11	8	7	33	33	
450,521	3.338	27	18	17	15	12	9	7	33	34	
450,439	3.360	20	14	12	10	8	5	4	33	33	
450,359	3.345	13	11	11	10	9	6	5	33	34	
450,279	3.309	48	40	35	30	23	15	11	33	34	
450,198	3.345	16	15	13	12	9	7	6	33	34	
450,117	3.345	36	26	21	16	10	5	3	33	34	
450,034	3.338	27	23	21	19	16	12	9	33	34	
449,959	3.353	24	20	17	14	10	6	4	33	34	km 449 = 1120m
449,879	3.309	43	33	29	23	17	11	7	33	34	
449,799	3.295	37	31	28	24	19	13	9	33	35	
449,718	3.317	47	33	28	20	14	8	6	33	35	
449,638	3.295	44	36	26	22	13	8	6	33	35	
449,560	3.360	29	20	17	15	11	7	5	33	36	
449,480	3.381	19	13	12	10	9	6	5	34	35	
449,398	3.367	17	13	12	11	9	7	5	34	35	
449,320	3.360	20	15	12	11	9	6	5	34	35	
449,240	3.367	14	12	10	10	8	6	5	34	35	
449,160	3.345	18	13	12	11	9	6	5	34	35	
449,079	3.367	19	14	12	10	8	6	5	34	36	
449,000	3.360	15	14	12	11	9	7	6	34	36	
448,920	4.320	21	15	14	12	9	8	6	31	38	
448,840	3.317	57	40	31	23	14	9	6	36	38	km 448 = 914m
448,760	3.360	61	41	25	13	4	1	2	36	38	
448,680	3.345	58	43	29	17	8	4	3	36	38	
448,600	3.353	40	28	20	13	7	4	3	36	38	
448,518	3.295	68	40	30	17	9	4	4	36	38	
448,439	3.353	49	31	22	14	7	4	4	36	38	
448,357	3.353	18	11	10	9	8	5	5	36	38	
448,278	3.266	98	67	49	32	18	10	8	36	37	
448,197	3.345	23	16	14	12	10	7	6	36	37	
448,120	3.374	15	13	12	10	9	6	5	36	37	
448,037	3.360	18	12	11	10	8	6	5	36	37	
447,960	3.381	21	15	13	11	8	6	4	36	36	km 447 = 986m
447,880	3.381	13	10	10	9	7	5	4	36	36	
447,800	3.367	19	13	12	10	8	6	5	36	36	
447,720	3.345	15	10	9	8	7	5	4	36	36	
447,639	3.345	19	14	13	11	9	7	6	36	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
447,558	3.345	20	15	14	12	10	7	6	36	36	
447,478	3.353	15	12	11	10	8	6	5	36	36	
447,398	3.367	20	15	14	12	10	7	6	36	35	
447,317	3.345	21	15	14	12	10	7	6	36	36	
447,240	3.302	70	51	36	26	14	9	7	36	36	
447,161	3.324	63	47	31	23	13	8	7	36	36	
447,080	3.281	62	37	26	19	13	8	7	36	35	
447,000	3.309	74	52	35	23	14	9	7	36	35	
446,840	3.345	35	22	16	12	8	6	5	36	35	km 446 = 911m
446,761	3.317	54	39	30	21	12	8	6	36	35	
446,680	3.302	50	32	22	15	10	7	6	36	35	
446,600	3.302	58	38	24	16	11	8	7	36	35	
446,520	3.331	24	18	16	13	11	7	6	36	35	
446,440	3.317	33	25	21	17	13	9	7	36	35	
446,359	3.338	38	28	23	18	13	8	7	36	35	
446,278	3.345	27	20	17	15	11	8	6	36	35	
446,198	3.345	27	20	18	15	12	8	7	36	35	
446,117	3.331	20	14	12	11	9	7	6	36	35	
446,040	3.338	28	23	19	16	12	7	7	36	35	
445,960	3.309	47	37	31	26	19	12	9	36	35	km 445 = 1016m
445,880	3.317	40	27	22	17	12	8	7	36	34	
445,799	3.302	46	36	31	24	17	11	8	36	34	
445,720	3.273	77	53	41	30	19	11	9	36	35	
445,643	3.273	65	46	35	25	16	10	7	36	34	
442,839	3.317	36	22	18	14	10	6	5	34	36	
442,759	3.317	25	17	14	11	9	6	5	34	36	
442,680	3.317	35	26	21	16	11	7	5	34	36	
442,599	3.324	32	25	21	16	11	7	6	34	36	
442,518	3.288	68	44	30	20	11	6	6	34	36	
442,440	3.295	51	39	29	20	12	7	6	34	36	
442,359	3.259	74	42	28	20	9	4	4	34	36	
442,281	3.288	31	19	14	10	7	5	4	34	36	
442,199	3.266	83	59	39	22	10	5	4	34	36	
442,121	3.317	30	19	14	11	7	4	4	34	36	
442,038	3.273	21	15	12	9	6	4	4	34	36	
441,958	3.309	18	15	11	9	7	4	4	34	36	km 441 = 1031m
441,959	4.382	19	14	12	10	7	6	5	23	28	
441,879	4.335	41	31	26	18	12	7	5	24	28	
441,797	4.344	18	13	11	8	7	5	4	24	28	
441,719	4.358	35	26	21	15	9	6	5	24	28	
441,639	4.348	19	14	12	9	7	5	4	23	28	
441,557	4.330	83	51	35	18	10	7	5	23	28	
441,480	4.382	78	50	37	19	9	6	5	23	27	
441,397	4.416	32	23	18	12	8	5	4	24	28	
441,320	4.379	44	31	24	16	9	6	4	23	28	
441,238	4.339	79	56	29	14	6	4	3	24	28	
441,159	4.339	67	50	30	16	8	4	3	24	28	
441,080	4.356	61	44	34	18	10	6	3	24	28	
441,000	4.391	29	22	18	12	8	5	3	24	28	
440,919	4.416	22	17	14	11	8	7	5	24	28	km 440 = 964m
440,840	4.401	39	29	24	17	11	7	4	24	29	
440,759	4.420	20	14	11	8	6	5	4	23	28	
440,679	4.338	29	20	16	11	7	5	4	25	30	
440,599	4.366	34	25	20	14	9	7	5	25	31	
440,519	4.309	75	50	34	20	12	8	6	24	29	
440,438	4.343	24	18	15	11	8	6	5	25	30	
440,357	4.314	32	24	21	16	11	9	7	25	30	
440,279	4.316	86	61	44	28	17	13	9	24	29	
440,199	4.412	13	9	9	7	6	6	5	25	28	
440,119	4.344	19	15	14	12	10	8	6	25	28	
440,039	4.346	20	14	12	10	8	6	5	24	29	
439,919	4.346	25	19	17	14	11	9	7	25	30	km 439 = 936m
439,840	4.323	31	24	21	17	13	10	7	24	30	
439,759	4.356	82	59	42	23	13	10	7	25	30	
439,680	4.364	32	25	22	17	14	10	8	25	30	
439,600	4.332	43	31	25	20	15	11	8	25	30	
439,519	4.341	25	19	18	15	12	9	7	24	30	
439,440	4.348	35	28	26	21	17	12	9	25	31	
439,359	4.341	25	20	18	15	12	10	8	25	31	
439,278	4.346	38	29	25	19	14	10	7	25	31	
439,200	4.394	14	10	9	8	7	6	5	25	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
439,118	4.373	20	14	12	9	7	5	4	25	30	
439,039	4.350	21	16	14	12	9	6	4	25	30	
439,000	4.307	44	34	26	19	14	10	6	25	29	
438,919	4.364	14	9	8	7	5	4	3	24	30	km 438 = 1000m
438,838	4.354	15	13	12	11	9	7	5	25	30	
438,757	4.353	14	11	11	10	9	7	6	25	29	
438,679	4.358	20	15	13	10	8	6	4	25	29	
438,597	4.358	20	15	14	11	9	7	5	25	31	
438,518	4.333	18	14	13	11	9	7	6	24	29	
438,439	4.319	19	16	15	13	11	9	6	25	32	
438,358	4.329	20	16	15	13	11	8	6	25	32	
438,278	4.317	22	18	17	14	12	9	7	26	34	
438,201	4.310	21	17	16	14	12	10	8	26	33	
438,119	4.261	39	29	26	20	14	10	7	26	32	
438,038	4.305	21	16	15	13	10	8	6	25	35	
437,958	4.323	21	17	16	13	11	8	6	26	35	km 437 = 1000m
437,879	4.305	20	15	13	10	8	6	5	26	36	
437,799	4.348	51	37	30	21	14	10	7	27	35	
437,718	4.379	57	44	36	19	13	9	7	27	36	
437,638	4.342	74	58	42	30	19	12	9	27	36	
437,558	4.333	56	43	36	26	18	12	9	28	37	
437,478	4.376	53	39	30	20	13	9	6	27	36	
437,398	4.333	39	29	24	17	11	8	5	28	36	
437,319	4.337	22	16	14	11	8	6	5	28	36	
437,240	4.344	37	32	22	17	12	8	6	27	37	
437,160	4.352	41	28	21	14	9	6	5	28	36	
437,080	4.258	93	78	66	51	38	27	18	28	36	
437,000	4.204	85	66	51	41	30	21	15	28	36	
436,999	4.329	62	50	37	25	15	10	7	28	37	
437,001	4.283	69	56	49	38	29	21	15	28	36	
436,920	4.280	73	61	53	41	28	20	14	27	37	km 436 = 1072m
436,840	4.307	22	17	16	13	10	8	7	28	37	
436,759	4.299	27	20	18	14	11	8	7	28	37	
436,679	4.213	77	59	47	34	23	16	11	29	32	
436,599	4.312	34	26	23	17	12	8	6	28	32	
436,519	4.408	21	16	14	12	9	7	6	29	37	
436,439	4.371	16	13	13	11	10	8	7	28	38	
436,359	4.340	14	11	10	8	6	5	4	29	33	
436,278	4.307	20	14	13	10	8	6	5	29	38	
436,199	4.363	22	17	16	13	11	8	6	29	38	
436,118	4.332	17	14	13	11	9	7	6	29	32	
436,040	4.305	18	15	14	12	10	8	6	28	38	km 435 = 1060m
435,959	4.325	19	16	15	13	11	9	7	29	34	
435,878	4.308	20	15	14	12	10	8	6	29	32	
435,798	4.344	21	17	15	12	10	8	6	29	38	
435,719	4.351	34	29	27	16	12	9	7	29	38	
435,640	4.315	27	22	20	16	12	9	7	29	35	
435,560	4.367	60	42	34	23	12	9	7	29	39	
435,480	4.347	23	19	18	15	12	9	7	29	39	
435,399	4.304	48	34	29	22	16	11	8	28	39	
435,319	4.272	53	39	33	24	16	11	8	29	40	
435,240	4.344	31	23	20	15	11	9	7	29	36	
435,160	4.300	55	43	35	26	16	11	9	29	34	
435,081	4.321	49	37	33	25	18	13	9	29	36	
435,000	4.313	44	33	28	21	15	10	8	29	38	
434,919	4.327	20	15	13	11	9	7	6	29	33	km 434 = 990m
434,840	4.320	25	19	17	13	10	7	6	29	38	
434,760	4.266	32	24	21	16	12	8	6	28	39	
434,681	4.338	42	31	25	16	11	8	6	29	38	
434,599	4.342	26	20	17	13	10	8	6	29	37	
434,520	4.320	21	16	14	12	10	8	6	29	40	
434,439	4.292	48	36	27	19	13	8	6	29	39	
434,359	4.307	44	33	26	17	9	7	6	29	38	
434,281	4.327	18	14	12	10	8	7	5	29	37	
434,199	4.317	25	19	16	13	10	7	5	29	38	
434,119	4.299	29	22	18	13	9	7	5	29	38	
434,040	4.353	26	19	16	12	9	6	4	29	38	
433,960	4.346	25	19	17	14	11	9	6	30	38	km 433 = 1028m
433,880	4.306	29	21	19	15	11	8	6	29	37	
433,799	4.329	25	20	18	15	12	10	8	30	38	
433,720	4.344	31	24	22	18	15	11	8	30	38	
433,639	4.272	25	19	17	14	11	9	7	30	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
433,560	4,346	25	19	17	14	11	9	6	30	38	
433,480	4,324	14	10	9	8	6	5	5	30	38	
433,399	4,288	32	23	20	16	12	9	6	30	37	
433,319	4,311	22	17	16	14	12	10	8	29	38	
433,240	4,340	31	24	22	19	15	11	8	30	35	
433,160	4,333	19	15	14	12	10	8	6	30	37	
433,081	4,327	15	12	11	10	9	7	6	29	34	
433,001	4,310	18	15	14	12	10	8	6	30	37	
432,919	4,327	23	18	17	15	12	10	7	29	37	km 432 = 944m
432,840	4,344	18	15	14	12	10	9	7	30	36	
432,759	4,304	20	16	15	13	11	9	7	30	36	
432,679	4,338	20	16	15	13	11	8	6	30	37	
432,598	4,309	19	15	14	12	10	8	6	29	37	
432,519	4,319	21	17	16	13	11	8	6	30	37	
432,440	4,309	15	12	11	10	8	7	5	30	37	
432,360	4,331	14	11	10	9	7	6	4	29	36	
432,281	4,325	13	10	9	7	6	5	4	29	36	
432,198	4,309	11	8	8	7	5	5	4	29	37	
432,118	4,282	13	9	8	6	5	4	3	30	35	
432,040	4,309	11	8	7	6	5	5	4	30	36	
431,959	4,364	14	11	10	8	7	5	4	29	37	km 431 = 1000m
431,879	4,333	14	10	9	8	7	6	5	30	35	
431,797	4,300	36	30	27	22	16	11	7	29	34	início de ponte km 431,780
431,719	4,360	14	10	9	8	6	5	4	30	36	fim de ponte km 431,575
431,640	4,300	17	12	11	10	8	6	5	29	36	
431,558	4,371	17	14	13	11	9	7	5	30	35	
431,479	4,320	21	16	15	12	10	8	6	29	37	
431,399	4,313	20	16	15	13	11	9	7	30	35	
431,319	4,282	21	17	16	14	12	10	7	29	34	
431,237	4,327	21	16	15	13	11	9	7	30	35	
431,160	4,344	23	18	17	14	11	9	7	30	34	
431,079	4,317	17	14	13	12	10	8	6	29	35	
431,000	4,335	17	13	13	11	9	8	6	30	35	
431,079	4,313	18	14	13	11	9	8	6	30	36	km 430 = 1133m
431,000	4,288	19	15	13	12	10	8	6	30	36	
430,918	4,292	18	14	13	12	10	8	6	29	35	
430,838	4,308	25	20	19	16	13	10	8	29	35	
430,758	4,338	20	16	15	13	11	9	7	29	35	
430,680	4,322	20	16	15	13	11	9	7	27	35	
430,601	4,304	24	19	18	16	13	10	8	28	35	
430,518	4,308	22	17	17	14	12	10	8	28	34	
430,439	4,296	45	35	31	25	19	14	10	27	33	
430,358	4,300	58	44	37	28	19	13	8	28	34	
430,280	4,354	21	18	17	14	12	10	8	27	34	
430,201	4,342	19	15	14	12	10	8	7	28	33	
430,118	4,286	23	17	15	13	10	8	6	28	34	
430,040	4,298	27	22	20	17	14	11	8	28	32	
429,959	4,364	25	20	18	15	12	10	7	28	34	km 429 = 1000m
429,879	4,295	40	31	26	19	13	9	6	28	35	
429,799	4,313	23	18	17	15	13	11	8	27	35	
429,718	4,340	23	19	18	15	12	10	7	28	36	
429,638	4,331	21	17	16	13	11	9	7	28	34	
429,558	4,327	19	15	14	12	10	8	6	28	35	
429,477	4,311	27	21	18	15	11	9	7	27	35	
429,399	4,308	22	17	15	13	10	8	6	28	34	
429,319	4,317	20	16	15	13	10	8	7	28	34	
429,239	4,430	22	17	16	13	10	8	6	28	34	
429,160	4,329	39	30	23	18	12	9	7	28	35	
429,079	4,344	39	31	27	21	12	9	6	28	35	
428,998	4,373	18	12	11	8	7	6	5	27	35	
428,920	4,338	19	14	13	11	9	7	6	27	35	km 428 = 988m
428,840	4,320	22	17	15	13	10	8	7	27	35	
428,759	4,295	29	23	21	18	15	12	10	28	36	
428,681	4,296	39	30	26	19	14	10	7	28	34	
428,599	4,319	19	14	13	10	9	7	6	27	36	
428,520	4,332	21	15	13	11	9	7	6	28	36	
428,438	4,319	12	8	8	7	6	6	5	28	36	
428,359	4,343	19	14	12	10	8	7	6	28	36	
428,281	4,261	100	66	53	29	17	11	8	28	34	
428,201	4,348	17	13	13	11	10	8	7	28	36	
428,119	4,381	17	13	13	11	10	8	7	28	36	
428,040	4,338	19	14	13	11	9	7	6	27	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
427,879	4.338	19	15	14	12	10	8	7	28	36	km 427 = 879m
427,800	4.317	21	16	16	13	11	10	8	27	37	
427,718	4.302	21	16	14	12	9	8	6	28	37	
427,637	4.311	19	14	12	10	8	7	6	28	36	
427,559	4.318	30	23	19	15	12	9	7	28	37	
427,479	4.315	13	10	9	8	7	6	5	28	35	
427,400	4.320	14	10	9	7	6	5	4	28	34	
427,319	4.261	35	26	23	17	12	8	6	28	34	
427,239	4.293	28	20	17	13	10	8	6	28	35	
427,159	4.327	17	12	11	10	8	7	6	28	35	
427,079	4.311	18	13	12	9	8	6	5	29	36	
427,000	4.317	41	30	24	17	12	8	6	28	37	
426,919	4.322	18	14	13	11	9	8	6	28	35	km 426 = 988m
426,840	4.295	15	12	11	10	8	7	5	27	35	
426,760	4.327	19	15	13	12	9	7	6	28	37	
426,679	4.284	19	15	15	13	11	9	7	28	35	
426,600	4.320	19	16	15	13	11	9	7	28	37	
426,519	4.300	24	19	18	15	12	10	8	28	36	
426,438	4.335	19	15	14	12	10	8	6	29	37	
426,360	4.302	21	15	13	11	8	6	5	28	36	
426,280	4.295	26	20	17	14	11	8	6	28	37	
426,198	4.295	27	21	18	14	11	8	6	28	37	
426,119	4.284	25	18	16	12	9	7	6	28	36	
426,040	4.286	37	27	22	16	11	8	6	29	37	
425,960	4.315	23	17	15	12	10	8	6	29	35	km 425 = 1000m
425,881	4.293	27	20	18	15	12	9	7	29	36	
425,799	4.327	22	16	14	11	9	7	5	29	36	
425,721	4.320	21	15	14	12	9	8	6	29	36	
425,640	4.315	15	11	10	9	7	6	5	29	36	
425,560	4.316	15	11	10	9	7	6	5	29	37	
425,479	4.239	42	29	22	15	10	7	6	29	38	
425,400	4.298	27	20	17	14	10	8	6	28	38	
425,318	4.333	22	17	15	12	10	8	6	29	36	
425,238	4.315	18	14	12	10	8	7	5	29	36	
425,160	4.318	15	12	11	9	7	6	5	28	35	
425,079	4.325	24	17	15	11	9	7	5	29	36	
425,000	4.277	25	19	16	12	9	7	5	29	36	
424,919	4.253	28	21	17	13	10	7	6	29	37	km 424 = 1037m
424,840	4.288	15	11	10	8	7	6	5	29	37	
424,758	4.261	33	26	22	17	11	7	5	29	37	
424,680	4.304	16	12	11	9	8	6	5	29	35	
424,600	4.313	17	13	11	9	7	5	4	29	35	
424,519	4.331	14	9	8	6	5	4	3	29	33	
424,440	4.340	20	15	12	9	7	5	4	29	34	
424,357	4.347	13	9	8	6	5	4	3	29	35	
424,279	4.336	25	17	15	12	9	7	6	29	36	
424,201	4.360	24	17	15	12	10	8	7	29	38	início de ponte km 424,116
424,038	4.344	15	11	10	8	7	5	4	29	37	fim de ponte km 424,100
423,919	4.264	54	43	38	31	23	17	13	29	37	km 423 = 940m
423,839	4.268	42	32	28	22	17	13	10	29	37	
423,757	4.288	47	38	33	27	20	14	10	28	38	
423,675	4.293	40	31	27	21	15	11	8	29	38	
423,597	4.342	30	22	20	16	12	9	7	29	38	
423,519	4.325	26	20	18	14	10	8	6	29	38	
423,440	4.349	23	17	15	12	9	7	6	29	39	
423,361	4.352	19	15	13	11	8	7	5	29	38	
423,279	4.298	21	15	14	11	8	7	5	29	39	
423,198	4.358	22	17	15	12	10	7	6	29	39	
423,118	4.298	25	19	16	12	9	7	6	29	39	
423,037	4.340	25	17	14	10	7	6	5	29	40	
422,958	4.322	25	15	11	8	6	5	5	29	40	
422,879	4.318	38	26	20	14	11	7	6	29	40	km 422 = 1000m
422,797	4.309	25	18	16	12	10	8	6	29	40	
422,717	4.322	32	22	19	15	12	9	7	30	40	
422,640	4.315	19	12	10	7	6	5	4	30	39	
422,557	4.323	32	22	18	14	11	8	6	30	40	
422,483	4.317	27	19	17	13	10	8	6	30	39	
422,399	4.293	29	20	16	12	10	8	6	30	41	
422,319	4.306	38	27	22	16	12	9	7	30	40	
422,238	4.286	17	12	11	9	7	6	5	30	41	
422,159	4.293	42	30	25	19	14	10	7	29	40	
422,079	4.298	38	27	22	17	12	9	6	30	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
422,040	4.227	47	32	26	19	13	9	7	31	42	
421,961	4.268	54	41	35	26	18	12	7	31	42	km 421 = 1021m
421,879	4.240	74	51	39	25	16	9	6	31	42	
421,800	4.261	37	27	24	18	14	10	7	30	42	
421,718	4.256	48	35	28	20	13	9	6	30	42	
421,639	4.293	42	29	23	17	13	9	6	30	41	
421,560	4.266	62	41	30	19	12	7	5	29	41	
421,479	4.282	45	33	27	20	14	9	7	30	41	
421,399	4.282	54	37	28	19	13	9	6	30	41	
421,319	4.256	61	41	30	20	13	9	7	30	41	
421,240	4.291	53	36	29	22	16	11	8	30	41	
421,160	4.233	47	32	26	19	13	9	6	30	41	
421,080	4.275	45	30	24	18	12	8	6	29	41	
420,999	4.274	53	36	28	21	14	10	7	30	40	
420,919	4.279	50	34	27	20	14	10	7	30	40	km 420 = 985m
420,837	4.247	51	32	22	13	8	6	4	30	40	
420,760	4.275	33	23	19	14	10	8	6	30	40	
420,680	4.288	37	25	20	15	10	7	5	30	40	
420,601	4.304	36	26	22	16	12	8	5	30	40	
420,518	4.252	81	50	33	20	12	8	5	29	39	
420,438	4.279	48	33	26	18	12	9	6	30	39	
420,359	4.270	33	24	20	15	11	8	6	30	39	
420,281	4.272	36	26	23	17	12	9	6	30	39	
420,201	4.306	37	25	20	15	10	7	5	29	40	
420,120	4.304	38	27	22	15	9	6	4	30	39	
420,040	4.232	45	28	22	14	9	6	4	30	40	
419,959	4.309	28	19	17	13	9	7	5	30	40	km 419 = 1000m
419,879	4.272	41	30	24	17	11	7	4	30	39	
419,800	4.246	50	30	23	15	10	7	5	30	39	
419,719	4.317	31	23	20	16	12	9	7	30	39	
419,638	4.262	40	29	24	18	13	10	7	30	39	
419,562	4.302	57	39	30	20	12	8	5	30	39	
419,481	4.288	43	29	23	17	12	8	6	29	39	
419,399	4.276	34	25	20	15	10	7	5	29	39	
419,319	4.293	32	25	21	16	11	8	5	30	39	
419,239	4.279	40	29	25	18	12	7	4	30	39	
419,160	4.300	27	20	17	14	11	8	6	30	39	
419,079	4.258	43	30	25	19	13	9	6	30	39	
419,000	4.293	42	30	24	18	12	9	7	30	39	
418,919	4.400	38	28	24	19	13	10	7	25	31	km 418 = 1025m
418,840	4.414	46	35	29	21	14	9	6	25	31	
418,760	4.408	29	20	17	14	11	9	7	25	30	
418,680	4.409	46	35	29	21	14	9	7	25	31	
418,598	4.379	47	32	25	18	12	8	6	26	31	
418,521	4.386	38	29	24	18	13	10	7	26	31	
418,440	4.344	54	40	33	23	15	10	7	25	31	
418,360	4.388	38	27	22	16	11	8	5	26	30	
418,281	4.405	38	28	24	19	14	10	8	26	31	
418,201	4.389	43	32	28	21	14	10	7	26	32	
418,121	4.321	36	26	22	16	12	9	6	26	31	
418,042	4.405	49	37	30	21	13	9	6	25	31	
417,960	4.357	64	44	34	22	13	8	5	25	31	km 417 = 1000m
417,879	4.354	58	43	34	23	14	9	6	26	32	
417,799	4.383	27	19	16	13	10	7	6	25	32	
417,721	4.362	40	29	22	16	10	7	5	26	32	
417,640	4.381	38	27	22	15	10	7	4	25	31	
417,559	4.387	31	22	19	14	10	7	5	25	31	
417,480	4.333	38	25	20	14	10	8	6	25	31	
417,399	4.355	47	32	24	16	11	8	6	26	31	
417,319	4.364	46	34	27	19	13	8	6	25	32	
417,240	4.359	42	30	25	18	12	8	6	26	31	
417,160	4.362	40	31	26	20	14	9	6	25	32	
417,080	4.375	35	26	22	16	12	8	5	26	31	
416,999	4.333	35	26	22	17	12	9	6	25	31	
416,920	4.319	30	23	20	16	12	9	6	25	31	km 416 = 1000m
416,838	4.290	92	67	47	30	18	12	8	26	31	
416,760	4.391	39	27	22	16	12	8	6	26	31	
416,681	4.339	42	30	24	16	11	7	5	26	31	
416,601	4.339	17	14	13	10	8	6	5	26	32	
416,520	4.342	31	23	19	14	10	7	5	26	32	
416,436	4.360	29	21	18	14	10	7	5	26	31	
416,360	4.323	26	17	15	11	7	5	4	25	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0						DATA: fev/2007			
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
416,280	4.335	40	27	21	14	9	6	4	26	30	
416,198	4.350	17	13	12	10	8	6	5	26	31	
416,121	4.355	15	12	10	8	6	5	4	26	31	
416,041	4.352	25	18	15	11	8	5	4	26	31	
415,960	4.312	17	12	10	8	7	5	4	26	31	km 415 = 1000m
415,880	4.307	25	18	16	11	8	6	4	26	31	
415,801	4.355	37	26	21	15	10	7	5	26	31	
415,719	4.352	25	18	15	12	8	6	4	26	31	
415,641	4.339	31	22	18	13	9	6	4	26	31	
415,558	4.331	14	11	10	8	7	5	4	26	31	
415,481	4.312	36	26	22	16	11	8	6	26	31	
415,398	4.299	24	18	16	13	10	7	5	26	31	
415,321	4.319	31	23	19	14	10	7	5	26	32	
415,239	4.301	27	20	17	13	9	7	5	26	31	
415,158	4.307	24	17	15	12	9	6	4	26	31	
415,082	4.309	36	25	20	15	10	7	5	26	32	
415,000	4.323	40	29	23	17	11	7	5	25	30	
414,918	4.301	42	28	22	14	8	5	4	26	31	km 414 = 1000m
414,842	4.318	35	26	22	17	12	8	6	26	31	
414,762	4.339	18	14	13	11	9	7	5	25	30	
414,679	4.335	23	18	16	12	9	6	4	26	30	
414,601	4.337	23	18	15	12	9	6	4	26	29	
414,521	4.315	18	13	11	8	6	4	3	26	31	
414,442	4.335	23	18	15	12	9	6	4	26	32	
414,359	4.317	21	17	14	11	8	6	4	26	31	
414,279	4.331	19	15	13	10	7	5	4	26	31	
414,200	4.301	18	13	11	9	6	5	3	26	31	
414,120	4.314	21	15	13	10	7	5	4	26	31	
414,041	4.317	24	18	16	13	9	6	4	26	29	
413,959	4.335	19	15	15	12	9	7	5	26	31	km 413 = 1000m
413,881	4.346	20	15	13	10	8	6	4	26	31	
413,800	4.310	30	23	19	14	9	6	4	26	31	
413,719	4.331	26	19	16	12	9	6	4	26	31	
413,640	4.272	100	62	37	16	7	4	3	26	30	
413,557	4.298	42	29	23	16	10	6	4	25	30	
413,481	4.342	30	23	19	14	10	7	5	26	29	
413,401	4.352	22	16	15	12	10	7	5	26	31	
413,319	4.309	23	17	15	12	9	7	5	26	30	
413,240	4.298	28	19	15	12	8	6	4	26	31	
413,160	4.294	26	19	16	12	8	6	4	25	30	
413,080	4.319	17	13	12	10	8	6	4	26	30	
413,000	4.314	54	37	29	18	11	6	4	26	30	
412,918	4.305	32	21	17	13	9	7	5	26	31	km 412 = 1000m
412,840	4.294	68	45	34	21	12	7	5	26	31	
412,759	4.290	54	39	30	21	13	8	6	26	32	
412,680	4.251	57	32	22	14	9	6	5	26	30	
412,599	4.289	69	42	27	16	9	5	4	26	29	
412,521	4.247	70	42	28	16	9	5	4	27	30	
412,440	4.341	90	54	35	19	9	5	4	26	30	
412,357	4.344	23	17	14	11	8	6	4	26	32	
412,279	4.330	38	24	17	12	8	5	4	26	31	
412,199	4.276	43	26	19	13	9	6	4	26	30	
412,121	4.265	45	27	19	12	8	6	4	26	30	
412,040	4.321	39	23	17	12	8	5	4	26	31	
411,960	4.255	57	33	22	14	8	5	4	26	28	km 411 = 1000m
411,879	4.242	82	50	34	21	13	8	5	26	29	
411,800	4.247	77	50	36	24	16	11	8	26	30	
411,722	4.329	21	13	11	8	6	5	4	27	29	
411,639	4.261	66	41	30	20	12	8	5	26	30	
411,560	4.271	69	39	25	15	9	6	5	26	30	
411,481	4.325	44	23	15	10	6	5	4	26	31	
411,399	4.275	72	44	32	20	13	9	6	26	30	
411,319	4.274	39	30	24	17	11	7	4	25	31	
411,241	4.284	40	26	20	13	8	5	4	25	31	
411,158	4.325	48	37	31	23	15	10	8	25	31	
411,079	4.249	62	37	24	14	8	5	4	25	32	
411,000	4.280	100	60	40	23	12	7	5	26	32	
410,921	4.282	71	43	31	20	12	6	4	26	31	km 410 = 1000m
410,841	4.313	45	28	21	14	9	6	5	26	33	
410,760	4.348	42	26	21	16	11	8	6	26	32	
410,681	4.292	72	45	34	21	13	8	5	26	32	
410,597	4.265	80	52	39	27	18	12	8	26	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0						DATA: fev/2007			
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
410,518	4.334	56	34	25	16	10	7	5	26	33	
410,440	4.357	47	31	23	15	10	7	5	26	33	
410,360	4.302	40	23	16	10	6	4	3	25	33	
410,281	4.307	52	32	22	15	9	5	4	26	33	
410,198	4.305	58	36	24	15	9	6	4	25	32	
410,121	4.262	68	41	27	16	9	7	5	25	33	
410,040	4.251	70	39	24	13	8	5	5	25	33	
409,962	4.273	53	32	21	14	9	6	4	25	33	km 409 = 1000m
409,879	4.313	56	35	25	17	11	7	5	26	33	
409,798	4.289	76	46	29	17	10	6	5	26	33	
409,720	4.262	55	34	24	16	10	7	5	26	33	
409,637	4.296	57	33	24	15	10	6	5	25	33	
409,556	4.287	51	31	22	15	11	8	5	26	34	
409,477	4.305	36	23	18	12	8	6	4	26	35	
409,398	4.263	47	30	23	16	10	6	4	26	34	
409,319	4.296	49	30	21	14	9	5	4	26	35	
409,240	4.294	66	41	29	19	11	7	5	26	37	
409,159	4.208	87	47	29	15	9	6	5	26	36	
409,079	4.272	37	21	15	11	7	5	3	26	38	
409,001	4.273	45	29	22	15	10	6	5	26	38	
408,921	4.313	47	30	24	16	10	7	5	26	39	km 408 = 1000m
408,840	4.258	50	31	22	15	9	6	4	27	39	
408,760	4.314	44	28	21	14	9	6	4	27	39	
408,680	4.278	44	28	20	14	9	6	4	27	40	
408,597	4.253	53	32	25	17	11	7	5	27	39	
408,519	4.275	61	37	27	17	10	6	4	27	40	
408,440	4.259	54	35	26	18	12	8	5	27	41	
408,360	4.296	53	33	25	17	11	7	5	27	40	
408,281	4.246	53	34	26	18	13	9	6	28	40	
408,200	4.298	50	33	25	18	12	8	6	28	41	
408,119	4.243	56	32	24	16	10	7	5	28	41	
408,040	4.288	38	26	22	17	13	9	7	28	42	
407,959	4.253	52	33	25	18	12	7	5	29	42	km 407 = 1000m
407,881	4.216	59	37	28	20	14	9	5	29	42	
407,799	4.282	58	36	26	17	10	6	5	29	41	
407,721	4.274	54	32	23	14	9	7	5	29	41	
407,640	4.247	63	37	26	16	10	7	5	29	39	
407,557	4.254	58	36	28	19	12	8	5	29	39	
407,481	4.263	50	31	22	15	10	7	5	29	38	
407,400	4.254	45	30	22	16	11	7	5	29	40	
407,316	4.268	40	29	24	18	13	9	6	29	39	
407,240	4.306	37	25	20	15	10	6	4	29	41	
407,160	4.295	32	23	19	14	9	6	4	29	42	
407,081	4.243	51	33	26	18	12	7	6	29	41	
406,999	4.274	33	23	19	14	9	7	5	29	42	
406,921	4.216	57	36	28	19	12	8	5	30	43	km 406 = 1000m
406,841	4.268	63	40	30	20	12	8	5	29	43	
406,760	4.239	60	37	28	20	14	10	6	30	43	
406,681	4.300	78	48	35	22	13	8	5	30	44	
406,599	4.286	54	34	26	18	11	7	5	30	43	
406,519	4.309	47	30	24	17	12	8	5	30	43	
406,440	4.303	45	31	25	19	13	9	6	29	44	
406,361	4.311	51	31	24	16	11	7	5	30	43	
406,280	4.270	68	42	29	18	11	8	6	30	42	
406,200	4.306	61	34	23	15	9	6	5	30	42	
406,120	4.274	63	38	28	18	10	6	5	30	44	
406,042	4.281	56	36	28	19	12	8	5	30	44	
405,958	4.268	52	34	24	16	10	6	4	30	43	km 405 = 1000m
405,878	4.251	24	18	16	13	9	7	5	30	40	
405,799	4.272	56	32	22	15	10	7	5	30	43	
405,720	4.286	71	40	27	16	10	7	5	30	43	
405,641	4.230	45	28	20	14	9	6	4	29	43	
405,561	4.272	38	23	19	13	9	7	5	30	40	
405,480	4.270	40	26	20	13	8	5	4	30	33	
405,399	4.251	62	37	26	15	8	4	3	30	41	
405,319	4.286	47	34	27	19	11	6	4	30	41	
405,240	4.270	45	33	26	17	10	5	3	30	39	
405,160	4.259	70	49	34	19	10	7	5	30	31	
405,080	4.249	69	42	29	18	10	7	5	30	41	
404,999	4.228	60	37	28	18	11	6	5	30	41	
404,920	4.241	68	42	31	20	11	7	5	30	41	km 404 = 1000m
404,839	4.245	54	32	24	15	9	5	4	30	42	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
404,759	4.214	61	39	29	19	10	5	3	30	43	
404,680	4.294	61	36	24	15	9	6	4	30	37	
404,600	4.238	59	36	26	17	11	6	4	30	40	
404,518	4.281	81	56	36	20	12	8	5	29	40	
404,438	4.232	72	45	32	20	12	7	5	30	42	
404,360	4.303	71	55	31	16	11	8	6	30	40	
404,281	4.272	70	44	31	19	11	7	5	30	39	
404,200	4.274	94	57	41	25	15	9	6	30	37	
404,121	4.252	63	38	25	15	9	6	4	30	39	
404,040	4.298	43	28	23	16	10	7	4	30	39	
403,961	4.259	54	35	27	17	9	5	3	30	40	km 403 = 1000m
403,878	4.253	61	40	26	15	9	6	4	30	38	início de ponte km 403,855
403,801	4.300	70	43	31	19	11	6	4	30	41	fim de ponte km 403,825
403,719	4.307	59	36	26	16	9	5	4	30	40	
403,640	4.261	44	32	27	19	12	8	5	30	40	
403,560	4.303	54	33	23	15	9	6	5	30	40	
403,479	4.284	64	39	28	18	10	6	4	30	39	
403,399	4.277	69	40	25	16	9	6	4	30	40	
403,321	4.282	69	45	33	22	15	10	8	30	38	
403,241	4.269	38	27	24	18	10	8	6	30	36	
403,160	4.311	50	34	26	17	11	8	5	30	37	
403,081	4.269	70	45	30	18	10	6	4	30	36	
403,000	4.293	71	45	33	22	14	9	6	30	38	
402,918	4.295	60	34	23	16	11	7	5	30	38	km 402 = 1000m
402,840	4.286	95	56	35	20	11	8	6	30	37	
402,760	4.303	60	32	23	15	9	6	5	30	41	
402,679	4.234	76	47	35	23	13	8	5	29	42	
402,601	4.268	92	54	35	20	11	7	5	30	41	
402,519	4.245	74	43	29	18	11	7	5	30	42	
402,440	4.252	63	42	31	20	12	9	6	30	42	
402,358	4.252	90	55	40	27	17	10	7	30	42	
402,281	4.241	113	68	45	28	17	11	7	30	42	
402,199	4.241	83	46	32	20	13	8	5	30	42	
402,121	4.247	77	51	39	27	18	12	8	30	42	
402,040	4.290	63	37	24	15	10	8	7	30	41	
401,960	4.277	45	27	18	13	8	6	4	30	41	km 401 = 1000m
401,881	4.277	58	32	22	14	9	6	5	29	43	
401,798	4.254	66	39	28	19	13	9	7	30	43	
401,719	4.236	76	44	28	17	10	8	6	30	43	
401,638	4.238	75	44	29	18	11	8	6	30	42	
401,560	4.222	105	57	35	19	11	7	5	30	43	
401,481	4.254	82	46	30	16	9	6	5	30	43	
401,399	4.207	82	54	31	17	10	7	5	30	43	
401,321	4.198	91	52	35	21	12	8	6	30	43	
401,241	4.218	84	49	33	20	12	8	6	30	44	
401,160	4.230	93	54	37	22	13	8	6	30	44	
401,079	4.236	91	55	37	22	12	8	5	30	44	
401,000	4.232	80	47	31	20	12	8	6	30	42	
400,919	4.292	70	43	31	19	11	6	5	29	42	km 400 = 1000m
400,840	4.230	83	53	34	21	13	9	6	30	43	
400,758	4.245	84	53	37	24	14	9	7	30	43	
400,679	4.225	87	55	38	22	13	8	6	30	43	
400,601	4.230	86	54	37	22	12	7	5	30	43	
400,520	4.253	78	45	29	16	9	6	5	30	43	
400,440	4.272	67	39	26	16	10	7	5	29	42	
400,360	4.237	72	48	34	19	10	6	5	29	43	
400,278	4.245	79	50	33	19	11	8	6	30	43	
400,200	4.277	76	47	35	22	14	9	5	30	44	
400,118	4.239	52	41	34	22	12	8	5	30	43	
400,042	4.230	75	54	41	27	16	10	6	30	42	
399,959	4.292	79	52	37	23	14	9	7	30	40	km 399 = 1000m
399,879	4.265	82	49	36	22	14	9	6	29	41	
399,799	4.259	79	48	33	21	13	9	7	30	41	
399,718	4.256	81	50	36	24	16	11	7	30	42	
399,640	4.254	102	53	32	17	11	8	6	30	41	
399,558	4.263	87	53	36	20	10	5	4	30	41	
399,480	4.336	63	46	36	25	14	8	5	30	41	
399,400	4.251	60	40	31	23	16	11	8	30	43	
399,318	4.259	83	47	30	17	9	5	4	30	42	
399,238	4.263	75	54	42	29	18	11	6	30	40	
399,158	4.205	116	87	72	55	40	28	19	30	40	início de ponte km 399,107
399,000	4.256	52	37	30	21	14	9	6	30	39	fim de ponte km 399,072

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG					TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007
PISTA:	Decrescente					FAIXA:	Simples				
SENTIDO:	MG/DF					ENSAIO:	a cada 80 m				
398,918	4.319	57	40	30	20	12	8	5	30	39	km 398 = 1017m
398,840	4.290	50	38	31	22	14	9	6	30	39	
398,759	4.308	55	32	21	13	8	5	4	30	39	
398,679	4.319	59	35	23	14	9	7	5	30	42	
398,599	4.276	77	52	39	26	18	13	9	31	42	
398,519	4.259	77	57	44	31	21	15	10	31	43	
398,439	4.261	65	45	33	20	12	8	5	30	44	
398,359	4.321	33	27	25	21	17	14	11	30	44	
398,282	4.292	60	42	31	20	11	7	5	30	45	
398,199	4.254	66	52	43	32	22	14	9	30	44	
398,119	4.292	73	53	43	32	23	17	13	30	46	
398,038	4.231	92	71	58	44	30	18	9	31	46	
398,359	4.256	72	45	33	22	15	11	8	30	45	km 397 = 1360m
398,278	4.296	60	41	32	22	13	9	7	30	45	
398,199	4.331	63	42	31	20	13	9	7	30	43	
398,119	4.267	73	48	36	23	14	9	7	30	43	
398,040	4.258	78	52	38	23	14	9	7	30	42	
397,959	4.280	74	45	30	17	11	8	6	29	43	
397,880	4.261	67	40	28	17	11	7	5	30	44	
397,799	4.285	72	41	27	16	10	7	5	31	42	
397,721	4.261	73	43	29	17	9	6	5	30	42	
397,640	4.239	96	61	38	20	11	7	5	30	41	
397,558	4.265	79	50	35	21	11	7	5	30	42	
397,479	4.280	76	44	28	15	8	5	4	30	42	
397,400	4.286	72	41	23	13	8	6	5	30	43	
397,318	4.274	70	44	28	15	9	6	5	31	41	
397,240	4.292	62	39	26	16	10	6	4	31	43	
397,162	4.265	65	39	26	16	10	8	6	31	43	
397,081	4.268	85	54	34	18	9	6	5	31	42	
397,000	4.283	70	46	31	18	10	7	5	31	43	
396,599	4.236	79	50	35	20	11	8	6	31	42	km 396 = 625m
396,518	4.256	93	60	43	26	15	10	7	31	42	
396,439	4.193	159	116	93	66	42	27	17	31	42	
396,360	4.263	85	60	47	33	22	15	10	31	42	
396,277	4.267	97	64	45	29	18	12	8	30	42	
396,197	4.296	88	52	33	20	12	8	6	30	42	
396,119	4.292	60	33	21	13	8	5	4	31	41	
396,040	4.234	117	72	47	28	16	10	7	31	41	
395,957	4.313	61	44	35	25	17	12	9	30	44	km 395 = 1000m
395,877	4.273	101	65	47	30	18	12	9	31	42	
395,799	4.308	74	55	45	33	22	16	11	31	42	
395,718	4.247	89	62	47	31	18	10	7	30	40	
395,640	4.256	89	59	45	30	20	15	11	31	41	
395,559	4.229	100	65	48	31	19	12	9	30	41	
395,481	4.261	71	46	33	20	11	8	6	31	41	
395,399	4.315	94	57	38	22	12	8	5	31	41	
395,319	4.355	74	51	20	8	4	3	2	31	38	
395,240	4.281	54	34	20	7	5	5	4	31	39	
395,159	4.279	91	64	47	27	16	11	8	31	42	
395,077	4.236	109	73	55	35	21	14	9	31	42	
395,002	4.214	129	89	68	46	28	18	11	31	41	
394,921	4.265	49	36	29	20	13	9	6	31	41	km 394 = 1000m
394,841	4.308	58	36	24	14	7	5	4	31	42	
394,760	4.311	66	37	21	10	5	4	3	31	42	
394,681	4.281	60	34	20	10	6	4	3	31	41	
394,599	4.286	72	45	29	16	9	6	5	32	41	
394,520	4.270	69	42	29	16	10	7	6	31	41	
394,439	4.319	48	41	32	18	11	8	5	31	41	
394,361	4.265	74	43	26	14	7	5	4	31	42	
394,281	4.284	64	36	22	12	7	5	3	32	43	
394,201	4.245	75	45	30	17	10	7	5	31	44	
394,120	4.265	71	40	25	14	8	6	5	31	44	
394,042	4.227	62	37	26	16	10	6	4	31	44	
393,960	4.303	78	49	32	19	11	7	5	31	45	km 393 = 1000m
393,880	4.255	81	50	35	19	12	7	5	31	44	
393,799	4.218	73	44	29	17	10	6	4	31	45	
393,718	4.229	90	53	33	18	10	6	4	31	44	
393,642	4.283	57	34	25	15	10	7	5	32	42	
393,560	4.305	65	37	21	12	7	5	4	31	42	
393,480	4.256	80	46	28	15	7	4	4	31	43	
393,397	4.258	50	31	22	13	8	5	4	31	43	
393,320	4.285	90	50	30	15	7	5	4	31	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
393,242	4.220	108	65	40	21	9	5	3	30	42	
393,161	4.247	68	37	23	13	8	5	4	30	43	
393,079	4.292	64	36	22	12	7	5	4	30	43	
393,001	4.207	73	43	28	16	9	6	4	31	43	
392,921	4.253	75	45	28	15	8	6	5	31	43	km 392 = 1000m
392,840	4.246	89	50	33	18	11	8	6	31	44	
392,760	4.238	108	71	53	36	24	16	12	31	45	
392,681	4.207	136	96	76	54	36	24	16	32	45	
392,597	4.175	115	79	61	41	27	17	11	31	45	
392,518	4.247	68	41	30	19	12	9	7	31	46	
392,439	4.259	73	44	29	17	9	6	5	31	46	
392,362	4.259	84	55	41	26	15	9	6	32	46	
392,282	4.249	68	45	34	21	10	6	5	31	44	
392,200	4.257	83	55	39	23	13	8	6	31	43	
392,121	4.253	79	48	35	22	13	8	5	32	43	
392,042	4.262	73	45	32	18	10	7	5	32	44	
391,959	4.272	80	47	33	20	11	8	6	32	46	km 391 = 1000m
391,878	4.250	64	39	29	18	10	7	5	31	46	
391,797	4.277	53	34	26	15	8	5	4	31	47	
391,719	4.248	63	38	27	16	9	6	4	31	46	
391,638	4.286	64	36	24	13	7	4	3	31	47	
391,560	4.267	77	44	29	16	10	6	4	31	46	
391,479	4.261	73	43	29	16	9	6	4	32	46	
391,401	4.288	64	33	24	12	8	5	4	32	45	
391,318	4.256	64	38	25	14	8	6	4	32	46	
391,238	4.266	66	39	28	16	8	4	2	32	44	
391,160	4.200	75	48	33	19	10	6	4	31	45	
391,081	4.288	72	43	29	16	9	5	4	32	45	
391,001	4.274	74	44	29	17	10	6	4	32	46	
390,921	4.279	72	46	31	19	11	7	4	32	46	km 390 = 1000m
390,840	4.272	72	45	31	19	11	7	5	31	46	
390,760	4.306	80	49	32	18	11	7	5	31	45	
390,678	4.234	74	51	37	23	13	8	5	32	45	
390,599	4.322	64	41	30	19	12	8	6	31	45	
390,520	4.284	86	54	38	21	12	8	6	32	45	
390,441	4.225	74	46	31	19	12	8	5	31	46	
390,357	4.198	72	46	33	20	12	7	5	32	45	
390,281	4.238	79	52	37	23	14	9	7	32	45	
390,199	4.249	95	63	46	30	19	14	10	31	46	
390,120	4.236	77	49	36	24	15	10	8	31	48	
390,040	4.156	109	80	61	38	20	9	4	31	45	
389,957	4.207	112	80	61	42	26	15	9	32	46	km 389 = 1005m
389,881	4.160	139	112	91	64	41	26	16	31	47	
389,801	4.234	100	75	60	38	22	14	9	32	48	
389,719	4.232	99	75	62	47	34	24	17	32	48	
389,641	4.257	59	38	27	16	9	6	5	32	47	
389,560	4.303	70	45	32	17	10	7	5	32	46	
389,481	4.288	83	53	37	23	15	9	6	31	45	
389,399	4.279	86	58	38	24	14	10	7	32	45	
389,320	4.224	82	51	35	19	10	6	4	32	45	
389,238	4.309	69	43	24	14	10	7	5	32	43	
389,160	4.272	70	41	28	17	10	6	5	32	44	
389,080	4.261	74	52	39	26	15	9	6	31	45	
388,999	4.255	75	48	35	22	11	6	3	31	45	
388,919	4.239	83	58	45	30	17	10	7	32	44	km 388 = 1005m
388,839	4.282	63	46	31	14	9	5	4	31	43	
388,760	4.277	85	54	34	19	11	7	5	31	43	
388,679	4.254	81	58	47	34	23	16	11	31	42	
388,597	4.124	178	141	116	87	58	35	19	31	42	
388,519	4.201	75	49	34	19	12	7	5	32	42	
388,440	4.209	86	57	41	24	14	9	7	32	43	
388,360	4.230	102	68	48	29	16	10	7	31	42	
388,279	4.146	151	108	84	56	31	12	5	31	42	
388,197	4.253	63	41	26	12	6	3	2	31	41	
388,120	4.265	104	68	45	28	18	12	9	32	39	
388,040	4.270	57	38	24	13	8	6	4	32	40	
387,959	4.238	72	43	28	16	8	5	4	31	41	km 387 = 1014m
387,879	4.214	75	48	33	20	11	6	3	32	39	
387,799	4.264	75	45	27	15	9	5	4	32	39	
387,720	4.220	82	57	41	22	12	8	5	32	39	
387,638	4.288	81	57	39	16	9	5	3	32	39	
387,558	4.323	74	46	22	10	5	4	3	32	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
387,479	4.261	78	49	29	14	8	5	4	31	39	
387,399	4.153	74	45	30	17	10	8	5	31	38	
387,319	4.249	79	51	35	19	10	6	5	31	38	
387,242	4.284	76	43	28	15	10	7	5	32	38	
387,159	4.288	63	38	26	14	9	6	5	32	38	
387,079	4.255	81	49	34	20	12	7	5	31	38	
386,999	4.237	73	51	31	17	11	7	5	30	37	
386,840	4.253	76	43	27	14	8	6	5	30	38	km 386 = 920m
386,758	4.243	82	59	46	27	14	8	5	31	37	
386,681	4.307	86	55	33	17	10	6	4	30	36	
386,601	4.232	80	54	33	17	9	6	4	29	37	
386,521	4.261	79	52	26	15	9	7	5	30	36	
386,441	4.275	88	49	20	14	9	7	5	29	37	
386,358	4.322	94	59	28	16	9	7	5	29	36	
386,282	4.303	74	45	29	15	8	5	4	29	36	
386,201	4.280	81	52	34	19	10	6	5	29	35	
386,121	4.266	66	44	31	19	11	6	4	29	34	
386,042	4.216	74	42	28	16	9	5	4	28	33	
386,079	4.289	72	43	27	15	8	5	4	28	33	km 385 = 1095m
385,959	4.323	92	52	30	15	8	6	4	28	34	
385,880	4.305	100	60	35	17	9	5	4	28	34	
385,800	4.288	85	50	33	18	10	7	5	28	34	
385,719	4.282	82	49	33	18	8	5	4	29	35	
385,640	4.298	64	41	28	15	7	4	3	28	30	
385,560	4.284	81	46	29	14	7	4	3	29	34	
385,479	4.258	106	64	42	24	14	8	5	28	34	
385,399	4.266	78	46	29	15	9	7	5	28	32	
385,319	4.306	65	37	24	13	8	5	3	28	30	
385,240	4.329	26	20	17	13	10	7	5	28	34	início de ponte km 385,238
385,079	4.269	105	65	44	24	13	9	6	28	34	fim de ponte km 385,190
385,000	4.311	88	46	29	18	11	8	6	29	34	
384,920	4.266	103	73	37	24	14	9	6	29	34	km 384 = 1000m
384,840	4.334	75	45	28	16	9	6	5	28	35	
384,760	4.320	95	70	51	31	21	16	12	28	34	
384,681	4.309	64	41	29	17	10	7	5	28	34	
384,599	4.331	62	41	28	17	10	7	6	29	35	
384,519	4.318	76	47	24	11	5	4	3	28	34	
384,439	4.325	76	46	27	12	6	4	3	28	34	
384,361	4.286	63	38	22	11	5	3	2	28	34	
384,280	4.308	87	47	27	15	8	6	4	28	34	
384,199	4.298	90	49	27	12	7	5	4	29	34	
384,122	4.260	85	47	28	14	8	6	4	29	34	
384,040	4.288	66	39	25	14	8	5	4	28	34	
383,960	4.269	83	48	28	13	7	5	4	28	33	km 383 = 1000m
383,880	4.221	93	52	33	18	10	6	5	29	34	
383,799	4.221	69	38	23	13	8	6	5	29	33	
383,721	4.361	92	57	33	18	10	6	5	29	34	
383,640	4.298	82	46	28	16	9	6	5	29	33	
383,560	4.320	96	59	34	17	9	6	4	29	33	
383,479	4.273	99	58	34	17	9	6	4	29	35	
383,400	4.401	46	30	21	15	10	6	4	28	31	
383,320	4.323	78	46	27	14	6	5	4	29	33	
383,238	4.305	83	55	41	29	18	12	9	28	33	
383,160	4.243	112	65	44	26	16	12	9	28	34	
383,079	4.302	67	42	29	17	11	8	7	29	33	
383,000	4.366	54	32	23	15	10	8	6	29	37	
382,920	4.288	69	43	28	16	10	7	5	28	32	km 382 = 1106m
382,840	4.280	92	51	31	17	11	8	6	29	35	
382,760	4.270	86	50	32	17	10	6	5	29	35	
382,679	4.288	92	59	37	20	10	6	4	29	33	
382,601	4.325	59	41	30	19	11	7	5	29	33	
382,518	4.309	69	47	26	15	9	6	5	29	34	
382,438	4.331	77	47	28	16	10	7	5	29	33	
382,357	4.315	84	54	32	16	9	6	5	28	35	
382,280	4.329	64	38	25	17	11	9	7	29	34	
382,198	4.313	66	39	25	15	10	8	6	28	35	
382,119	4.350	71	40	25	15	10	8	6	29	33	
382,042	4.366	67	37	23	13	8	6	4	29	33	
381,879	4.344	63	38	24	14	9	7	5	29	36	km 381 = 890m
381,798	4.318	72	42	27	15	9	7	5	29	37	
381,719	4.278	79	50	34	19	11	8	6	29	36	
381,640	4.264	73	47	36	25	18	13	10	29	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
381.558	4.237	75	48	35	22	14	10	8	29	38	
381.480	4.278	93	65	49	29	17	12	9	29	37	
381.397	4.265	83	50	31	17	11	9	7	29	38	
381.320	4.259	81	48	30	17	10	8	6	29	38	
381.239	4.311	81	47	29	16	10	7	6	28	38	
381.159	4.313	67	41	28	16	10	8	6	29	38	
381.079	4.239	75	45	30	17	10	8	6	29	37	
380.999	4.272	82	54	38	22	12	7	5	28	39	
380.919	4.261	75	46	33	20	11	7	6	29	39	km 380 = 1000m
380.839	4.288	60	38	27	16	9	6	5	28	34	
380.758	4.304	78	44	27	13	7	4	3	29	36	
380.677	4.280	74	45	30	17	9	6	4	29	30	
380.598	4.269	85	55	36	20	11	7	5	29	31	
380.519	4.296	85	48	32	17	9	6	5	29	38	
380.439	4.255	73	41	26	13	8	6	4	29	39	
380.358	4.321	73	42	27	15	9	6	4	29	39	
380.279	4.275	74	38	25	14	8	5	4	29	38	
380.199	4.305	57	32	21	13	8	5	4	29	39	
380.118	4.298	61	36	23	13	7	5	4	29	40	
380.039	4.275	78	52	29	16	10	7	5	29	40	
380.040	4.304	83	51	31	16	10	7	6	30	38	km 379 = 1045m
379.959	4.269	98	59	38	21	12	8	6	30	40	
379.879	4.223	70	42	28	16	9	7	5	30	41	
379.799	4.288	74	50	32	18	11	7	5	30	41	
379.720	4.321	84	47	26	14	8	6	5	30	41	
379.639	4.290	71	41	24	13	8	6	4	29	41	
379.557	4.300	83	49	29	15	9	6	5	30	41	
379.479	4.249	67	35	22	12	6	4	3	29	43	
379.397	4.298	74	41	22	10	6	4	3	29	41	
379.318	4.267	96	56	29	21	13	11	8	30	42	
379.238	4.221	115	74	57	35	25	19	14	29	40	
379.159	4.284	104	73	46	32	22	17	12	29	40	
379.079	4.295	65	43	31	19	11	7	5	30	42	
378.997	4.269	55	36	29	19	11	7	4	30	43	
378.919	4.316	56	35	25	16	9	6	4	30	42	km 378 = 960m
378.839	4.294	85	50	29	16	9	7	5	29	41	
378.758	4.239	64	41	30	19	11	7	5	29	41	
378.680	4.228	69	44	32	20	12	8	5	30	40	
378.601	4.250	67	38	25	13	7	5	4	29	40	
378.520	4.245	69	39	24	13	9	6	4	29	40	
378.438	4.267	96	55	32	15	8	5	4	30	37	
378.360	4.262	80	45	26	11	7	5	4	30	38	
378.281	4.404	90	49	28	12	8	6	4	29	38	
378.200	4.329	79	49	32	17	10	6	4	30	38	
378.118	4.317	89	53	37	23	14	9	6	29	38	
378.039	4.315	85	55	39	22	13	9	7	29	38	
377.959	4.323	53	37	27	17	10	6	4	29	38	km 377 = 1000m
377.879	4.293	50	31	22	14	10	7	5	29	38	
377.800	4.303	80	52	30	20	15	10	7	28	36	
377.721	4.309	70	51	42	29	20	13	9	29	38	
377.640	4.322	87	61	46	31	19	12	9	29	37	
377.560	4.273	91	59	43	25	16	12	9	29	37	
377.478	4.327	67	43	32	21	12	9	6	29	38	
377.399	4.272	76	43	28	16	10	7	5	28	36	
377.319	4.323	56	34	22	14	10	7	5	28	37	
377.240	4.257	68	44	30	16	9	7	5	29	37	
377.159	4.309	64	38	23	14	9	7	5	29	33	
377.079	4.272	63	37	25	14	8	6	5	29	37	
377.000	4.273	81	46	28	16	9	6	5	29	34	
376.920	4.386	64	38	24	14	8	6	5	23	27	km 376 = 1000m
376.840	4.386	69	44	32	21	12	8	6	23	25	
376.760	4.391	73	44	28	17	9	6	5	23	26	
376.679	4.368	72	43	28	15	8	5	4	23	27	
376.600	4.399	50	30	20	13	8	5	4	23	27	
376.520	4.374	62	38	25	15	10	7	5	23	28	
376.438	4.394	71	41	26	15	10	8	6	23	28	
376.360	4.343	78	45	27	15	10	7	6	24	27	
376.281	4.351	62	43	28	16	9	6	5	24	27	
376.200	4.386	72	50	31	18	9	6	4	24	27	
376.121	4.472	89	50	29	15	8	5	4	24	26	
376.040	4.410	81	46	27	14	8	5	4	25	27	
375.960	4.417	46	33	26	17	8	6	5	25	28	km 375 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
375,881	4.358	70	45	34	22	14	9	6	24	28	
375,799	4.380	73	43	28	17	10	7	5	24	28	
375,718	4.378	71	42	28	17	10	7	5	24	28	
375,637	4.342	67	49	34	20	12	8	6	25	28	
375,558	4.331	77	42	32	18	11	7	5	24	28	
375,480	4.353	75	48	34	21	12	8	5	24	29	
375,399	4.407	70	53	34	21	14	9	6	25	29	
375,318	4.394	59	39	29	19	12	8	6	24	29	
375,240	4.337	68	44	32	20	11	7	5	24	29	
375,160	4.369	54	33	24	15	9	7	5	24	30	
375,081	4.355	46	33	26	17	11	7	6	24	30	início de ponte km 374,930
375,000	4.362	64	46	33	22	12	8	5	25	30	fim de ponte km 374,879
374,840	4.420	80	55	40	23	13	9	7	25	30	km 374 = 1000m
374,759	4.389	73	58	45	34	21	14	10	25	30	
374,681	4.331	110	90	82	65	45	33	19	25	31	
374,600	4.391	37	26	23	17	12	9	6	26	29	
374,520	4.374	34	28	23	18	12	7	6	26	30	
374,440	4.428	41	33	26	21	11	6	4	26	31	
374,358	4.378	58	35	25	14	8	5	4	25	26	
374,280	4.348	72	39	26	14	8	6	4	26	30	
374,201	4.339	57	33	22	12	7	5	4	26	27	
374,120	4.372	67	49	37	23	12	6	5	25	30	
374,040	4.350	69	46	34	22	11	7	5	25	29	
373,960	4.385	50	39	32	22	14	8	5	25	29	km 373 = 1000m
373,879	4.343	45	40	32	23	13	8	5	25	29	
373,798	4.286	66	39	25	16	10	7	5	25	30	
373,719	4.327	52	41	33	22	13	8	6	25	32	
373,640	4.381	46	36	29	19	12	9	6	26	30	
373,557	4.380	57	39	28	17	10	7	5	25	31	
373,480	4.338	55	38	27	16	11	8	5	26	28	
373,400	4.310	65	44	31	20	11	8	6	25	30	
373,318	4.328	67	45	35	20	12	8	6	26	31	
373,240	4.371	50	37	28	16	9	6	4	25	30	
373,161	4.351	59	41	31	16	11	6	5	26	31	
373,079	4.307	57	42	31	17	10	6	5	26	25	
373,000	4.371	32	26	23	18	12	7	4	26	29	
372,921	4.317	75	47	29	16	8	6	4	27	32	km 372 = 1000m
372,840	4.296	85	49	30	16	9	5	4	27	31	
372,760	4.350	67	43	29	17	10	6	5	26	32	
372,680	4.344	64	39	23	13	7	5	4	27	31	
372,600	4.325	68	38	23	13	8	5	4	26	33	
372,519	4.289	71	44	27	15	9	6	5	27	32	
372,440	4.285	69	49	30	16	9	7	5	26	31	
372,360	4.408	49	29	22	15	10	7	5	26	31	
372,279	4.327	65	42	28	16	10	7	5	26	33	
372,201	4.303	66	41	27	16	11	8	6	26	29	
372,119	4.357	72	47	31	18	11	8	6	26	30	
372,041	4.344	53	35	26	17	12	9	7	26	32	
371,958	4.276	64	44	30	16	10	8	6	26	32	km 371 = 1000m
371,879	4.314	54	37	29	21	14	9	7	26	32	
371,800	4.310	81	52	32	19	11	7	4	26	32	
371,719	4.303	72	47	34	21	13	8	6	26	32	
371,640	4.307	83	56	41	26	15	9	6	27	33	
371,560	4.300	62	42	31	22	15	12	9	26	34	
371,479	4.289	76	53	42	27	17	11	8	26	33	
371,400	4.302	63	42	32	20	12	8	7	27	27	
371,320	4.309	37	27	22	15	10	6	4	26	36	início de ponte km 371,265
371,158	4.250	82	54	40	26	16	11	8	27	34	fim de ponte km 371,235
371,079	4.069	205	161	131	93	55	34	20	27	30	
371,000	4.264	93	74	62	46	30	21	14	27	33	
370,921	4.340	55	38	27	16	11	9	7	27	32	km 370 = 1000m
370,839	4.296	72	50	33	22	12	9	7	27	33	
370,759	4.340	53	35	25	16	10	7	5	28	33	
370,681	4.289	64	38	25	15	9	6	5	28	34	
370,601	4.316	71	44	29	17	9	6	4	28	36	
370,521	4.342	56	37	26	16	9	6	4	27	36	
370,438	4.304	68	40	26	14	8	6	5	28	35	
370,360	4.304	64	39	23	13	7	5	4	28	35	
370,281	4.286	72	54	33	20	8	5	3	28	35	
370,199	4.356	53	30	22	14	7	5	4	28	36	
370,121	4.284	58	36	26	14	8	5	4	28	35	
370,041	4.253	66	40	26	14	8	5	4	28	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
369,960	4.296	75	44	26	15	9	6	4	29	35	km 369 = 1000m
369,879	4.280	56	36	28	17	9	6	4	29	35	
369,800	4.333	42	30	22	13	8	5	4	28	36	
369,719	4.329	53	38	30	18	7	6	5	29	35	
369,640	4.320	52	37	25	14	8	6	5	28	35	
369,560	4.298	48	32	23	15	10	7	6	29	37	
369,479	4.290	64	43	26	15	9	6	5	29	36	
369,399	4.263	62	39	25	15	9	6	5	29	33	
369,321	4.279	44	30	23	13	8	6	5	29	31	
369,242	4.317	74	46	29	16	9	6	4	27	32	
369,158	4.259	56	34	23	13	8	6	5	27	33	
369,079	4.295	36	24	18	12	7	5	4	27	34	
368,998	4.263	45	30	20	11	6	4	3	28	34	km 368 = 1000m
368,919	4.261	53	36	25	14	7	5	3	28	34	
368,840	4.282	43	31	23	13	6	4	3	28	34	
368,759	4.274	51	33	25	15	8	5	4	29	34	
368,679	4.353	61	44	33	23	15	9	6	28	35	
368,599	4.250	63	33	24	12	8	6	4	28	35	
368,519	4.338	35	25	19	12	8	5	4	29	35	
368,439	4.286	72	44	28	17	10	7	5	29	30	
368,360	4.322	55	37	28	16	10	7	5	29	34	
368,277	4.347	34	27	21	16	10	6	5	29	36	
368,199	4.315	49	37	28	17	11	7	5	29	32	
368,118	4.248	71	47	34	21	13	8	6	29	33	
368,040	4.257	109	86	71	53	35	22	14	29	34	km 367 = 1000m
367,959	4.232	119	90	71	47	28	14	7	29	35	
367,880	4.274	79	57	45	31	19	12	7	28	35	
367,799	4.292	66	42	27	15	8	5	5	29	33	
367,719	4.220	83	57	40	24	12	8	5	29	33	
367,640	4.304	80	56	43	27	15	7	4	28	29	
367,561	4.322	67	48	35	21	13	9	7	29	33	
367,479	4.295	78	49	32	19	10	7	5	28	33	
367,399	4.295	63	39	28	18	11	7	5	28	34	
367,321	4.284	61	39	28	18	11	7	5	29	30	
367,241	4.333	71	48	35	21	12	7	5	28	35	
367,162	4.272	71	44	28	18	11	7	5	29	33	
367,080	4.303	48	34	26	16	9	6	4	29	33	
366,999	4.284	46	33	23	13	6	3	2	29	34	km 366 = 1000m
366,919	4.303	61	42	31	20	11	6	4	29	39	
366,841	4.265	64	39	28	18	10	6	4	28	36	
366,759	4.259	82	58	45	31	19	12	8	29	38	
366,679	4.288	95	62	45	28	16	10	7	29	36	
366,599	4.232	108	71	53	34	20	12	8	29	37	
366,521	4.277	93	65	50	34	21	13	8	29	38	
366,439	4.286	72	49	36	24	14	9	6	29	39	
366,359	4.243	73	44	31	20	12	8	6	28	38	
366,279	4.293	93	56	37	21	12	8	6	29	39	
366,198	4.263	107	76	60	42	29	20	13	30	39	
366,119	4.277	65	47	35	23	13	7	5	30	38	
366,038	4.309	59	42	31	19	11	6	5	29	38	km 365 = 1000m
365,960	4.263	40	29	22	14	6	3	2	30	38	
365,879	4.243	32	23	19	13	9	5	3	30	37	
365,800	4.329	38	28	23	16	11	7	5	30	38	
365,721	4.250	77	59	49	37	25	16	10	30	38	
365,640	4.282	49	36	28	19	12	8	5	30	38	
365,558	4.273	54	39	30	20	12	8	5	30	38	
365,480	4.304	51	33	24	16	11	8	6	31	39	
365,399	4.291	65	38	25	16	10	7	6	30	38	
365,320	4.313	68	49	39	17	10	6	3	30	37	
365,241	4.252	77	48	33	20	11	7	5	30	38	
365,160	4.272	67	40	28	18	10	7	5	30	39	
365,081	4.235	70	43	28	16	10	6	4	31	39	
364,999	4.252	70	42	26	15	8	6	4	30	39	km 364 = 1000m
364,919	4.305	31	22	19	14	9	6	4	30	39	
364,840	4.282	40	26	21	14	8	5	4	30	39	
364,760	4.279	37	30	24	16	10	6	4	30	39	
364,679	4.277	55	35	25	15	9	5	4	30	40	
364,601	4.294	58	37	27	17	11	6	5	30	39	
364,520	4.340	59	39	28	16	9	6	4	30	38	
364,439	4.286	67	50	29	15	9	6	4	30	38	
364,358	4.302	44	32	26	17	11	6	4	30	39	
364,280	4.237	76	50	35	22	12	7	5	30	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
364,199	4,298	69	40	27	16	10	6	4	29	38	
364,117	4,255	64	37	25	14	9	6	4	29	38	
364,039	4,320	83	52	37	21	10	5	4	30	39	
363,961	4,278	69	41	27	15	8	5	4	29	39	km 363 = 1000m
363,879	4,296	72	48	34	18	9	5	3	30	38	
363,801	4,342	60	35	24	16	10	6	4	29	37	
363,719	4,275	73	42	26	14	8	5	3	30	38	
363,642	4,260	73	40	23	12	7	4	4	29	38	
363,558	4,291	72	41	25	14	9	6	4	30	39	
363,481	4,289	80	45	27	14	8	6	4	30	38	
363,399	4,278	76	45	28	15	9	6	4	29	37	
363,319	4,264	77	43	26	14	8	6	4	30	36	
363,239	4,236	86	48	29	16	9	6	4	29	37	
363,159	4,318	55	30	21	14	9	6	4	30	39	
363,081	4,277	81	43	23	13	7	5	4	29	38	
363,000	4,251	92	52	31	17	9	5	4	29	38	
362,920	4,248	80	45	24	11	6	4	3	28	38	km 362 = 1000m
362,841	4,307	66	41	26	15	8	4	3	29	37	
362,760	4,230	73	45	30	18	10	6	4	30	39	
362,679	4,266	74	42	26	14	8	5	4	30	40	
362,601	4,272	77	43	28	16	9	6	4	28	40	
362,520	4,307	75	42	26	14	8	5	4	29	40	
362,440	4,286	72	42	27	15	9	6	5	29	41	
362,360	4,251	63	37	26	16	9	6	4	30	42	
362,279	4,309	75	45	26	14	7	5	4	30	42	
362,198	4,315	57	31	20	12	8	6	4	30	42	
362,120	4,286	59	36	25	16	10	7	5	30	41	
362,040	4,275	60	36	25	15	8	5	4	30	41	
361,958	4,329	48	31	22	15	9	6	5	30	43	km 361 = 1000m
361,879	4,293	56	33	23	15	8	5	4	30	42	
361,798	4,293	48	28	20	12	6	3	2	29	41	
361,721	4,307	18	13	12	10	8	7	5	30	41	
361,640	4,267	78	57	46	34	24	16	11	30	39	
361,559	4,275	56	38	30	21	14	9	6	30	40	
361,479	4,266	63	43	31	22	15	10	7	30	40	
361,398	4,262	75	49	36	25	17	11	8	30	39	
361,318	4,251	67	40	28	17	10	6	5	30	38	
361,240	4,303	48	29	20	14	9	6	5	30	38	
361,160	4,282	59	35	24	15	9	6	4	30	38	
361,081	4,282	62	37	26	16	9	5	3	30	38	
361,000	4,302	50	30	22	14	8	5	4	30	39	
360,919	4,276	74	44	30	18	10	7	5	30	36	km 360 = 1003m
360,840	4,293	57	34	25	16	10	6	4	30	38	
360,758	4,278	52	33	25	17	10	6	5	30	38	
360,678	4,306	56	36	26	17	10	6	5	29	37	
360,600	4,248	63	40	29	20	12	8	5	30	38	
360,518	4,305	60	38	28	19	11	7	5	30	40	
360,439	4,284	62	39	29	19	12	7	5	29	41	
360,360	4,257	63	41	28	18	12	7	5	30	40	
360,280	4,262	57	37	26	16	10	6	4	30	42	
360,199	4,325	62	39	27	17	10	6	5	29	42	
360,121	4,239	87	51	30	17	9	6	5	29	41	
360,039	4,231	78	47	29	16	9	6	4	29	41	
359,959	4,293	58	36	26	17	10	6	4	28	41	km 359 = 1000m
359,881	4,296	62	38	27	17	10	6	4	29	42	
359,797	4,239	69	39	27	15	8	5	4	29	42	
359,720	4,336	75	42	28	16	8	5	3	29	43	
359,638	4,277	47	31	23	16	10	6	4	29	44	
359,558	4,303	52	32	24	16	10	7	5	29	46	
359,479	4,300	63	35	24	14	8	5	3	30	44	
359,399	4,316	71	40	24	13	7	5	4	29	44	
359,321	4,300	63	34	21	12	7	5	4	30	43	
359,240	4,286	72	41	25	13	7	5	4	29	44	
359,160	4,280	72	41	26	14	8	5	4	30	44	
359,081	4,284	69	41	27	15	8	5	4	29	44	
359,001	4,316	69	41	28	16	8	6	5	30	42	
358,919	4,256	57	33	21	11	6	5	4	30	42	km 358 = 1000m
358,839	4,246	85	51	32	17	10	6	5	30	44	
358,760	4,255	79	50	30	16	9	6	5	30	43	
358,679	4,216	83	50	33	18	10	7	5	29	45	
358,601	4,300	58	35	24	15	9	6	4	30	46	
358,520	4,291	69	41	28	17	11	7	5	20	45	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
358,440	4,278	71	43	30	17	10	7	5	30	46	
358,360	4,286	86	52	33	17	9	6	5	30	45	
358,280	4,309	79	50	32	17	9	5	4	30	46	
358,199	4,275	82	50	31	16	8	5	4	29	44	
358,120	4,342	90	53	31	16	8	5	4	29	44	
358,040	4,314	77	46	31	17	9	5	3	30	46	
357,959	4,329	66	42	28	16	9	5	3	28	37	km 357 = 1017m
357,880	4,371	85	57	34	18	9	5	4	28	42	
357,800	4,306	94	59	38	20	8	4	3	28	42	início de ponte km 357,768
357,640	4,329	56	45	34	22	14	10	7	29	40	fim de ponte km 357,722
357,560	4,303	65	39	27	16	10	7	5	29	39	
357,478	4,320	74	46	30	18	10	6	4	29	40	
357,401	4,293	83	54	37	22	12	8	6	28	42	
357,319	4,264	72	47	37	22	13	8	6	29	37	
357,239	4,360	44	37	32	23	14	9	6	28	38	
357,159	4,333	53	37	31	22	14	9	6	28	37	
357,079	4,315	53	41	28	18	10	6	5	28	36	
357,001	4,293	30	23	21	16	11	7	5	28	35	
357,319	4,293	39	32	27	20	13	8	5	28	35	km 356 = 1350m
357,240	4,329	35	26	22	17	11	8	5	28	34	
357,159	4,268	66	42	27	16	9	6	4	28	33	
357,079	4,261	57	38	26	16	9	6	5	27	33	
357,000	4,268	65	39	26	16	9	6	5	28	33	
356,920	4,350	56	47	26	16	9	6	4	24	28	
356,840	4,336	43	30	24	15	9	6	5	25	29	
356,760	4,305	39	28	24	14	7	4	4	25	28	
356,680	4,330	57	42	26	14	9	6	4	25	28	
356,600	4,418	55	36	28	15	8	5	4	25	30	
356,520	4,300	48	35	26	17	8	5	4	25	31	
356,440	4,300	47	36	28	16	9	6	4	26	29	
356,360	4,359	50	35	25	16	10	6	5	25	29	
356,280	4,289	43	29	24	15	10	6	5	25	28	
356,200	4,323	32	25	21	15	10	7	4	26	30	
356,120	4,321	29	23	20	15	10	7	5	25	30	
356,040	4,317	36	26	22	15	10	7	5	25	30	
355,960	4,261	44	31	24	15	9	7	5	25	30	
355,880	4,341	60	38	24	15	8	6	4	26	28	
355,801	4,368	74	47	35	19	11	7	5	26	32	km 355 = 1003m
355,720	4,323	52	36	24	14	8	5	4	26	31	
355,640	4,410	53	36	24	12	8	6	5	27	33	
355,559	4,275	52	36	27	17	10	7	6	26	34	
355,477	4,352	35	24	19	13	9	6	5	26	37	
355,397	4,364	33	21	17	12	8	6	4	26	36	
355,320	4,289	32	21	17	12	8	5	3	26	36	
355,238	4,325	42	26	19	12	7	4	3	27	35	
355,159	4,315	42	27	20	13	9	6	5	27	35	
355,080	4,370	53	35	26	17	10	6	3	26	35	
355,000	4,321	42	28	22	16	11	9	7	26	36	
354,921	4,325	58	40	33	25	18	13	9	26	36	km 354 = 1006m
354,840	4,340	44	31	24	18	13	9	7	27	36	
354,758	4,314	45	29	21	15	10	7	5	27	36	
354,681	4,313	45	30	22	15	10	7	5	27	36	
354,598	4,318	42	29	22	16	10	7	5	26	36	
354,519	4,307	48	31	23	15	10	7	6	27	37	
354,441	4,278	43	28	21	14	8	5	4	27	38	
354,359	4,288	56	37	26	16	8	5	4	27	39	
354,279	4,288	53	35	27	17	11	7	5	27	40	
354,198	4,323	68	40	24	12	7	4	3	27	41	
354,119	4,255	67	37	20	9	5	3	3	26	40	
354,039	4,251	58	37	26	15	7	4	4	27	41	
353,959	4,298	63	35	20	10	7	5	4	30	40	km 353 = 990m
353,879	4,305	46	30	22	14	10	6	4	30	41	
353,800	4,277	45	30	23	15	9	6	4	30	40	
353,718	4,284	57	37	27	17	10	6	5	30	39	
353,640	4,289	43	28	21	14	8	5	4	30	40	
353,557	4,309	49	30	21	13	8	5	4	30	42	
353,482	4,269	57	34	22	13	8	6	4	30	43	
353,399	4,345	46	30	22	14	8	6	4	30	43	
353,319	4,282	39	25	19	13	8	5	4	30	42	
353,240	4,280	47	32	24	16	9	6	4	30	42	
353,157	4,302	41	25	19	13	8	5	4	29	41	
353,079	4,340	48	30	20	12	7	5	4	30	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
353,001	4.311	56	33	21	13	9	6	4	30	38	
352,920	4.264	59	37	27	18	11	8	5	30	38	km 352 = 1000m
352,840	4.264	47	31	24	16	10	7	5	30	38	
352,761	4.267	47	30	23	16	10	7	5	30	38	
352,680	4.298	60	37	26	16	9	6	4	30	37	
352,601	4.250	49	32	23	15	9	6	4	29	36	
352,521	4.261	40	27	21	15	10	6	4	30	36	
352,441	4.279	64	37	23	13	8	5	4	30	35	
352,361	4.284	49	32	24	16	10	6	4	30	35	
352,279	4.248	66	40	28	16	8	5	4	29	35	
352,199	4.248	53	32	22	14	10	7	5	28	34	
352,119	4.230	49	34	26	18	12	8	6	28	35	
352,042	4.253	63	39	27	17	10	6	4	27	34	
352,040	4.251	50	27	17	10	6	4	2	31	47	km 351 = 1040m
351,960	4.278	42	25	18	12	8	5	4	31	50	
351,880	4.282	51	31	21	13	8	5	4	32	44	
351,800	4.302	49	30	22	14	9	6	5	32	50	
351,722	4.275	45	28	21	14	8	5	4	32	51	
351,641	4.278	42	25	18	12	8	5	4	32	50	
351,560	4.277	51	33	23	15	9	6	4	32	50	
351,480	4.296	35	23	18	12	9	6	4	31	50	
351,400	4.267	54	31	21	13	9	7	5	33	49	
351,320	4.296	55	32	22	14	9	6	4	32	48	
351,240	4.249	73	41	26	15	9	6	4	32	48	
351,160	4.274	63	37	25	15	10	6	5	32	49	
351,080	4.266	40	27	20	13	8	6	4	32	50	
351,000	4.264	58	32	21	13	8	5	4	32	49	
350,520	4.250	54	33	23	14	8	5	4	33	48	km 350 = 588m
350,440	4.239	44	24	15	9	6	4	3	32	47	
350,360	4.259	44	26	19	12	8	5	4	32	48	
350,280	4.251	50	27	17	10	6	4	2	32	47	
350,200	4.264	55	33	21	13	8	5	4	32	46	
350,120	4.280	50	30	20	13	8	6	5	32	47	
350,040	4.251	46	27	19	12	8	6	4	32	47	
349,640	4.298	51	30	21	13	8	5	4	32	48	km 349 = 656m
349,560	4.300	56	31	21	13	8	6	4	31	48	
349,481	4.248	49	26	18	12	8	6	4	32	48	
349,399	4.257	48	24	16	10	7	5	4	32	47	
349,320	4.246	50	27	17	10	7	5	4	32	48	
349,240	4.352	37	22	17	11	7	5	3	32	50	
349,160	4.256	45	27	19	13	8	5	4	32	51	
349,079	4.230	51	30	21	13	8	5	4	32	50	
349,001	4.269	54	35	25	15	8	5	4	32	51	
349,319	4.257	44	30	22	15	10	7	5	32	51	km 348 = 1350m
349,238	4.278	57	37	27	17	10	6	5	32	50	
349,160	4.239	67	41	28	18	12	8	6	33	50	
349,079	4.241	66	39	29	18	11	8	6	33	49	
348,999	4.232	67	40	29	19	11	8	6	33	49	
348,919	4.251	59	38	28	18	11	7	6	32	51	
348,839	4.244	54	34	25	17	11	8	6	32	51	
348,758	4.220	65	42	31	19	12	8	6	32	52	
348,679	4.307	51	32	23	16	10	8	6	32	52	
348,599	4.286	52	36	26	17	10	7	6	32	51	
348,519	4.267	56	37	26	15	9	6	5	33	53	
348,438	4.323	53	31	22	14	9	5	4	33	54	
348,360	4.286	37	24	17	11	6	4	3	32	53	
348,280	4.313	16	15	11	7	5	4	3	32	53	início de ponte km 348,196
348,120	4.296	36	20	13	8	5	4	3	32	53	fim de ponte km 348,170
348,039	4.300	37	21	14	9	5	3	2	32	50	
347,958	4.275	49	32	23	15	9	5	3	32	48	km 347 = 1000m
347,880	4.309	34	21	15	10	8	6	4	32	50	
347,799	4.241	60	38	27	17	10	7	5	31	46	
347,719	4.294	39	26	19	13	8	6	4	32	49	
347,640	4.269	51	30	22	15	11	8	6	32	48	
347,558	4.251	53	31	22	14	10	7	5	32	48	
347,479	4.258	62	40	31	22	14	10	7	33	47	
347,398	4.258	47	31	24	16	11	8	6	32	48	
347,318	4.282	67	43	28	16	9	6	4	32	48	
347,238	4.260	75	46	31	18	9	6	5	32	47	
347,160	4.294	69	45	32	20	12	8	5	31	46	
347,080	4.299	69	44	31	19	11	7	6	32	46	
347,000	4.269	66	41	30	18	10	7	5	32	46	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
346,919	4.290	73	46	33	20	11	7	5	32	46	km 346 = 1025m
346,839	4.303	48	32	23	16	10	7	6	32	46	
346,759	4.288	48	33	24	16	10	7	5	32	46	
346,677	4.280	59	40	29	18	10	7	5	32	45	
346,599	4.352	53	34	24	15	9	6	5	32	46	
346,519	4.292	49	33	26	17	11	7	5	31	46	
346,438	4.271	63	40	30	19	11	6	5	31	46	
346,360	4.280	61	42	32	21	13	8	6	31	46	
346,280	4.280	49	36	28	20	13	9	6	31	45	
346,199	4.253	74	47	34	21	11	7	5	32	46	
346,121	4.296	54	33	25	15	10	7	6	32	45	
346,038	4.255	51	34	25	17	11	8	6	32	46	
345,958	4.300	46	31	23	14	9	7	5	32	45	km 345 = 970m
345,879	4.253	61	37	27	17	10	7	5	31	45	
345,799	4.240	74	44	32	20	13	8	6	32	44	
345,719	4.247	68	40	30	19	12	8	6	32	45	
345,640	4.247	73	44	30	18	10	7	6	32	44	
345,559	4.265	67	45	33	21	12	8	6	32	45	
345,480	4.280	51	35	25	16	10	7	5	31	44	
345,399	4.235	57	37	27	16	8	4	2	31	41	
345,318	4.253	51	33	23	13	7	4	3	32	40	
345,238	4.229	58	40	28	17	10	6	4	32	40	
345,160	4.258	49	30	20	12	7	5	3	31	39	
345,080	4.269	43	27	17	10	6	4	2	31	39	
344,999	4.283	57	33	22	13	8	5	3	30	39	
344,921	4.290	49	28	18	11	7	5	3	29	38	km 344 = 890m
344,840	4.280	61	35	24	15	10	6	4	30	37	
344,758	4.251	56	33	22	14	9	6	4	30	37	
344,678	4.253	59	38	27	17	10	6	4	30	37	
344,600	4.251	58	38	26	15	9	6	4	29	37	
344,518	4.249	59	35	23	13	8	5	3	29	36	
344,434	4.274	63	37	25	14	8	5	3	29	37	
344,360	4.274	61	35	23	14	8	5	3	29	36	
344,280	4.254	59	36	23	13	7	4	3	29	35	
344,199	4.283	65	38	25	14	7	3	2	30	34	
344,120	4.221	51	31	21	14	9	6	4	30	37	
344,040	4.243	53	32	24	16	10	6	4	30	37	
343,960	4.285	63	44	34	21	11	7	5	30	36	km 343 = 1000m
343,880	4.303	46	35	24	14	12	7	6	30	36	
343,800	4.286	43	34	22	15	10	7	5	30	36	
343,720	4.282	57	42	24	15	10	6	5	30	35	
343,640	4.352	56	35	23	15	9	6	6	30	36	
343,560	4.297	45	35	23	15	12	7	5	29	36	
343,480	4.271	53	43	32	16	11	6	5	30	37	
343,400	4.282	66	41	32	23	15	7	6	30	37	
343,320	4.280	39	35	24	23	13	9	6	29	35	
343,240	4.256	78	42	32	24	13	8	5	29	37	
343,160	4.296	64	32	25	15	10	6	6	30	36	
343,080	4.252	51	32	23	18	12	7	6	29	37	
343,000	4.283	51	44	32	26	15	6	7	30	37	
343,080	4.241	64	43	33	22	13	8	6	30	37	km 342 = 1105m
343,000	4.300	56	31	26	14	9	7	5	30	38	
342,920	4.254	51	47	37	29	13	10	5	30	38	
342,840	4.246	64	44	36	24	16	8	6	30	37	
342,760	4.247	58	30	28	19	12	9	6	29	37	
342,680	4.241	63	44	38	27	14	7	6	30	38	
342,600	4.265	67	45	36	21	15	9	6	29	37	
342,520	4.285	55	45	28	16	13	7	5	30	37	
342,440	4.235	54	37	26	17	8	6	2	30	37	
342,360	4.254	52	33	28	13	7	5	3	29	38	
342,280	4.229	57	40	28	16	10	7	4	29	38	
342,200	4.252	59	33	20	12	8	6	3	30	37	
342,120	4.269	44	27	16	11	6	4	2	30	39	
342,040	4.281	59	35	22	13	9	7	3	29	37	
341,961	4.291	46	29	18	11	7	5	3	29	38	km 341 = 1006m
341,880	4.280	63	37	24	16	10	6	4	30	37	
341,800	4.252	55	33	21	14	9	6	4	29	37	
341,720	4.253	69	36	27	18	10	6	4	30	37	
341,640	4.251	53	38	26	15	9	6	4	29	37	
341,560	4.246	69	35	22	14	8	5	3	29	36	
341,481	4.271	53	35	25	14	8	5	3	29	37	
341,401	4.274	57	35	22	17	8	5	3	29	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
341,320	4.252	54	36	23	13	7	5	3	29	35	
341,242	4.283	55	36	24	13	7	4	2	30	34	
341,162	4.326	49	39	27	17	10	7	5	29	38	
341,081	4.273	61	35	23	14	8	6	3	29	36	
341,001	4.328	50	38	27	17	10	6	5	29	38	
340,920	4.338	41	30	24	16	11	8	6	29	36	km 340 = 1002m
340,841	4.324	45	31	23	14	8	5	4	29	39	
340,761	4.251	52	34	25	15	9	6	4	29	38	
340,682	4.311	34	21	15	10	6	5	4	29	39	
340,601	4.297	58	36	25	15	8	4	3	29	40	
340,521	4.241	40	28	22	16	11	7	5	29	42	início de ponte km 340,517
340,360	4.307	52	33	25	16	9	5	3	29	40	fim de ponte km 340,435
340,280	4.263	53	34	24	15	9	6	5	30	41	
340,200	4.227	75	51	40	29	19	13	8	29	39	
340,122	4.303	70	43	32	21	14	10	7	30	39	
340,038	4.306	56	36	28	19	13	10	7	30	39	
339,640	4.272	66	42	32	21	13	9	6	30	37	km 339 = 697m
339,560	4.260	66	42	31	21	13	8	6	30	38	
339,481	4.278	61	39	30	21	13	8	6	30	39	
339,402	4.268	52	31	23	16	11	7	5	29	37	
339,321	4.297	49	31	24	17	10	7	5	30	40	
339,240	4.290	41	28	21	14	9	5	4	30	37	
339,160	4.276	45	30	24	17	11	7	5	30	36	
339,080	4.286	41	28	23	16	11	8	6	30	37	
339,001	4.256	63	42	33	22	14	9	6	30	37	
339,240	4.288	56	39	30	21	13	9	6	29	38	km 338 = 1304m
339,160	4.263	51	38	30	22	15	10	7	29	37	
339,079	4.363	43	29	24	16	11	7	5	30	37	
339,001	4.324	50	32	24	17	11	7	5	30	38	
338,919	4.313	40	28	21	15	10	7	5	29	39	
338,842	4.310	45	31	24	16	11	7	5	29	40	
338,761	4.283	36	26	20	15	10	7	5	30	40	
338,681	4.276	37	25	20	15	11	8	5	30	39	
338,599	4.238	48	33	26	18	13	9	7	30	41	
338,518	4.297	46	32	26	19	13	9	7	29	41	
338,437	4.274	36	29	22	15	10	7	5	29	38	
338,360	4.265	28	15	13	10	7	6	4	30	40	
338,280	4.310	55	31	24	16	11	7	5	29	40	
338,200	4.283	46	26	20	15	10	7	5	30	40	
338,120	4.276	32	25	20	15	11	8	5	30	39	
338,040	4.278	51	39	30	21	13	8	6	30	39	
337,960	4.420	51	36	28	20	13	9	6	24	28	km 337 = 1000m
337,879	4.405	66	46	35	22	13	8	6	25	27	
337,800	4.393	70	50	36	23	13	7	5	25	28	
337,719	4.415	62	43	33	22	13	9	7	25	27	
337,640	4.375	78	56	42	26	15	9	7	25	28	
337,558	4.393	76	52	38	24	15	9	7	24	26	
337,479	4.350	75	53	42	30	20	13	9	25	26	
337,401	4.352	77	51	38	24	14	8	6	25	26	
337,321	4.373	77	52	39	24	13	7	6	26	26	
337,240	4.370	66	45	35	24	15	9	7	25	27	
337,160	4.397	64	45	35	23	13	8	7	25	28	
337,079	4.348	61	43	34	23	14	8	6	25	27	
337,000	4.330	76	52	40	27	16	8	6	26	25	
336,920	4.341	61	41	31	19	11	6	4	25	26	km 336 = 1000m
336,840	4.360	58	42	33	21	12	7	5	25	27	
336,760	4.362	47	35	29	20	12	7	6	25	28	
336,682	4.371	54	37	29	19	12	8	5	24	27	
336,597	4.356	66	46	35	23	14	8	6	25	28	
336,518	4.371	57	41	32	22	13	8	6	24	28	
336,440	4.300	67	46	34	21	12	8	6	25	27	
336,360	4.352	46	31	23	15	10	6	5	24	26	
336,279	4.303	58	40	29	19	11	7	5	25	28	
336,198	4.315	56	36	27	18	11	7	5	24	28	
336,121	4.305	63	39	27	17	10	7	5	25	28	
336,039	4.323	56	36	26	17	10	6	4	25	26	
335,960	4.303	62	40	28	17	9	4	2	25	28	km 335 = 1000m
335,878	4.305	65	45	33	21	12	7	4	24	26	
335,797	4.355	60	39	27	15	6	3	1	25	27	
335,721	4.312	71	48	34	20	9	4	3	25	27	
335,640	4.309	58	40	30	19	11	6	4	25	27	
335,558	4.325	73	46	31	17	9	6	5	25	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
335,481	4.310	45	30	20	12	7	5	3	25	28	
335,401	4.309	43	25	16	10	7	5	3	25	28	
335,319	4.338	39	26	18	13	9	6	5	25	29	
335,240	4.348	40	24	17	12	7	5	4	25	30	
335,158	4.368	50	34	24	15	9	6	4	25	28	
335,077	4.341	66	45	34	22	13	8	6	25	28	
335,002	4.346	81	58	42	26	14	8	6	24	27	
334,920	4.330	76	54	41	26	16	10	8	25	29	km 334 = 992m
334,838	4.316	81	56	40	24	14	9	7	25	29	
334,760	4.305	79	55	42	26	14	8	6	25	29	
334,679	4.289	79	55	40	24	13	8	6	24	28	
334,601	4.319	77	54	40	27	17	11	8	25	27	
334,518	4.271	78	55	40	25	14	9	7	25	27	
334,440	4.346	78	55	42	26	14	9	7	24	28	
334,358	4.320	80	57	41	24	13	8	7	24	29	
334,279	4.278	70	49	34	20	10	6	5	24	28	
334,200	4.294	72	51	38	24	14	9	6	24	28	
334,120	4.296	74	50	36	23	15	9	6	24	29	
334,038	4.303	58	41	32	22	14	9	6	24	28	
334,281	4.294	60	40	31	20	12	8	5	25	29	km 333 = 1310m
334,201	4.305	32	21	18	13	9	7	5	25	30	
334,121	4.327	24	16	13	9	7	6	4	25	29	
334,040	4.334	29	20	15	11	7	5	4	25	29	
333,960	4.338	46	31	24	16	11	8	6	25	29	
333,881	4.305	48	33	24	15	10	7	6	24	29	
333,800	4.340	47	29	20	13	8	5	4	25	30	
333,720	4.286	48	28	20	12	7	4	3	24	29	
333,640	4.333	44	28	20	12	7	4	3	25	31	
333,560	4.305	73	45	31	17	8	5	4	25	29	
333,480	4.303	58	39	27	16	10	6	5	25	30	
333,399	4.338	75	50	35	21	11	7	6	24	29	
333,320	4.330	50	37	29	19	13	9	7	25	29	
333,242	4.319	39	27	21	14	10	7	5	24	29	
333,161	4.296	64	38	26	16	9	6	4	25	31	inicio de ponte km 333,067
333,080	4.280	73	50	39	27	17	10	6	25	30	fim de ponte km 333,010
332,998	4.357	30	19	15	11	8	6	4	25	30	km 332 = 706m
332,681	4.338	40	27	20	12	7	4	3	25	30	
332,600	4.319	29	19	14	10	6	5	4	25	29	
332,521	4.276	39	26	20	14	10	8	6	25	30	
332,439	4.265	64	43	33	23	16	12	9	26	30	
332,360	4.292	69	46	34	22	12	7	4	25	27	
332,281	4.300	59	38	28	19	11	7	4	26	29	
332,200	4.300	30	17	13	9	7	5	4	26	31	
332,120	4.319	37	21	16	11	8	6	5	26	30	
332,040	4.276	63	38	27	18	12	9	7	26	29	
331,961	4.257	65	39	28	19	13	10	7	26	28	km331 = 1000m
331,882	4.303	50	33	26	18	12	9	6	25	29	
331,800	4.300	49	33	26	18	12	9	6	25	30	
331,720	4.334	46	31	24	17	11	8	6	26	29	
331,641	4.287	61	41	32	23	16	11	8	25	30	
331,560	4.294	54	37	27	19	14	11	8	26	29	
331,480	4.307	47	31	24	17	11	8	5	26	30	
331,401	4.325	54	38	30	22	15	10	8	25	29	
331,319	4.309	44	30	23	16	11	8	6	25	30	
331,238	4.305	53	36	29	21	14	9	6	26	29	
331,162	4.275	42	27	21	15	11	7	5	26	29	
331,081	4.359	33	20	16	13	10	8	6	26	29	
331,001	4.352	38	25	20	15	11	9	6	26	30	
330,920	4.319	47	32	24	16	9	6	4	26	29	km 330 = 1000m
330,842	4.335	41	28	22	15	10	7	4	25	30	
330,760	4.348	56	40	31	22	15	11	8	26	29	
330,681	4.325	59	39	29	18	12	8	5	26	29	
330,599	4.290	81	54	41	28	18	12	8	26	29	
330,522	4.323	30	16	12	9	8	6	5	25	30	
330,440	4.278	73	51	39	25	15	9	5	26	29	
330,362	4.265	56	36	26	17	10	7	5	26	30	
330,281	4.290	60	37	25	15	8	4	3	25	30	
330,201	4.294	50	32	23	15	8	5	4	26	28	
330,119	4.332	34	23	18	13	10	7	5	26	30	
330,039	4.262	71	52	41	30	20	14	10	26	30	
329,961	4.329	28	17	13	9	7	5	4	26	29	km 329 = 1000m
329,881	4.278	53	35	25	17	11	8	6	25	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
329,801	4.204	114	79	64	46	32	22	16	26	29	
329,721	4.301	55	36	28	19	13	10	7	26	29	
329,640	4.328	51	34	25	17	10	7	5	26	29	
329,561	4.239	127	85	68	48	31	21	14	26	29	
329,481	4.283	60	43	34	24	15	10	7	25	30	
329,401	4.267	60	39	29	19	11	6	4	26	29	
329,319	4.298	65	43	31	20	11	7	5	26	29	
329,239	4.267	55	37	28	19	12	8	6	26	31	
329,160	4.289	45	29	22	14	10	7	6	25	30	
329,080	4.289	41	28	24	18	13	9	7	26	31	
329,001	4.251	86	58	44	31	22	15	11	26	29	
328,920	4.292	43	28	21	15	11	9	7	26	31	km 328 = 1000m
328,840	4.292	39	27	21	14	10	7	5	25	29	
328,760	4.332	33	22	17	12	9	6	5	26	31	
328,680	4.294	36	23	17	12	9	7	5	26	31	
328,598	4.296	36	22	16	11	8	6	5	26	32	
328,519	4.317	33	22	17	12	9	7	5	26	32	
328,439	4.229 1	128	93	72	50	32	19	12	25	32	
328,360	4.226	100	73	56	39	25	17	12	26	32	
328,281	4.255	75	51	38	25	17	12	9	25	32	
328,200	4.278	50	32	23	14	7	5	4	26	32	
328,119	4.276	51	32	23	14	8	5	4	26	33	
328,041	4.251	71	43	30	17	10	7	5	26	32	
327,958	4.312	48	30	23	15	10	7	6	26	32	km 327 = 1040m
327,880	4.260	72	48	35	20	11	8	7	25	32	
327,800	4.271	75	50	36	21	11	8	7	26	31	
327,721	4.332	44	28	21	14	10	7	5	26	30	
327,639	4.305	36	24	18	13	9	7	6	26	31	
327,560	4.298	52	34	26	17	11	7	5	26	32	
327,480	4.292	56	38	27	17	10	7	6	26	32	
327,400	4.301	42	26	19	12	8	6	5	25	32	
327,319	4.263	67	46	36	25	17	11	8	26	32	
327,240	4.255	98	68	54	37	23	14	9	26	33	
327,161	4.271	55	38	30	17	10	7	6	26	32	
327,081	4.278	60	40	30	19	12	8	6	26	32	
327,001	4.290	43	30	25	18	13	9	7	26	32	
326,921	4.246	58	40	31	20	12	7	5	25	32	km 326 = 965m
326,841	4.246	75	52	40	27	18	11	7	26	32	
326,760	4.257	87	65	52	38	26	17	12	26	33	
326,681	4.294	51	36	29	21	15	11	8	26	34	
326,600	4.272	59	44	34	25	17	12	9	26	33	
326,521	4.283	71	46	34	23	16	12	10	26	33	
326,438	4.258	78	56	44	32	21	13	9	26	33	
326,358	4.247	83	57	44	30	19	12	9	26	32	
326,281	4.280	85	62	49	35	24	16	11	26	33	
326,202	4.319	30	20	15	10	7	5	4	26	33	
326,121	4.300	18	11	9	6	5	3	3	27	31	
326,042	4.271	55	40	33	24	17	12	9	26	33	
325,960	4.267	50	37	30	22	15	10	7	27	33	km 325 = 1000m
325,880	4.256	61	44	34	23	14	9	6	27	32	
325,799	4.233	77	59	47	35	24	15	9	26	33	
325,719	4.309	30	20	16	11	8	5	4	27	33	
325,641	4.277	65	49	40	30	21	14	9	26	33	
325,562	4.305	61	40	31	21	14	9	7	27	32	
325,479	4.262	44	28	21	15	10	7	5	27	33	
325,400	4.330	62	40	32	22	15	11	8	27	34	
325,320	4.352	17	9	7	5	4	4	3	27	34	
325,239	4.408	57	34	23	14	8	5	4	28	33	
325,160	4.216 1	124	79	64	46	32	21	14	28	34	
325,080	4.360	60	40	32	22	14	9	6	27	33	
325,000	4.294	43	28	23	17	12	9	6	28	33	
324,918	4.345	58	40	31	21	13	8	6	28	33	km 324 = 1000m
324,838	4.264	76	55	44	32	22	15	10	28	34	
324,760	4.345	33	21	16	12	8	6	4	28	34	
324,679	4.302	58	44	35	24	16	11	8	27	35	
324,597	4.356	34	21	17	12	9	7	5	28	34	
324,519	4.296	57	41	34	25	19	14	10	28	34	
324,439	4.291	37	26	21	16	11	8	6	29	35	
324,358	4.255	43	28	22	16	12	9	7	28	35	
324,279	4.327	52	37	30	22	15	11	8	29	35	
324,197	4.248	92	62	47	31	19	12	8	29	35	
324,120	4.257	45	33	26	19	14	10	7	29	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
324,040	4.275	37	25	19	13	8	5	4	28	36	
323,961	4.276	49	32	24	17	11	7	5	29	36	km 323 = 1000m
323,881	4.239	59	41	32	23	15	10	7	29	35	
323,802	4.239	33	20	15	10	7	5	4	29	36	
323,720	4.248	79	58	47	35	25	17	12	29	35	
323,638	4.267	57	38	28	18	11	7	5	29	36	
323,558	4.230	73	50	38	26	16	10	7	29	36	
323,480	4.260	77	53	40	26	15	9	6	28	37	
323,400	4.275	46	31	25	18	14	11	8	29	37	
323,318	4.216	93	71	58	43	30	21	15	29	37	
323,238	4210 1	99	76	62	45	31	20	12	29	36	
323,159	4.277	47	34	27	20	14	10	8	29	36	
323,080	4.316	37	25	21	15	11	7	5	29	37	
323,001	4.289	41	27	22	15	10	8	6	29	38	
322,921	4.284	34	24	19	12	7	5	3	29	36	km 322 = 1000m
322,841	4.278	30	19	14	10	6	4	3	29	38	
322,760	4.296	38	28	22	15	11	8	6	28	37	
322,677	4.228	91	65	53	38	26	17	11	29	37	
322,597	4.286	40	25	20	13	9	6	5	29	37	
322,518	4.269	39	25	19	14	10	8	7	29	37	
322,440	4.235	53	33	23	15	9	6	5	29	37	
322,360	4.340	40	26	20	13	9	6	5	29	36	
322,281	4.275	67	45	34	23	14	10	8	29	38	
322,199	4.280	31	20	15	9	6	5	4	29	38	
322,119	4.296	51	36	28	18	11	6	5	29	38	
322,038	4.278	48	34	27	20	14	11	7	29	38	
321,960	4.201	94	72	61	46	32	23	15	29	37	km 321 = 1000m
321,879	4.279	66	48	38	26	17	11	7	29	37	
321,800	4216 1	107	78	64	47	32	21	13	29	38	
321,720	4.290	36	23	18	12	8	6	5	28	39	
321,638	4.259	48	34	27	19	12	8	6	29	37	
321,560	4.248	81	59	48	35	25	18	13	29	38	
321,479	4.194	95	67	55	39	26	18	13	29	38	
321,397	4.219	60	42	34	25	18	13	9	29	38	
321,318	4.267	47	29	21	14	9	7	5	29	38	
321,240	4.261	39	27	22	15	10	7	5	29	39	
321,161	4.302	59	45	38	29	20	14	10	29	39	
321,080	4.271	82	62	51	37	23	15	9	29	40	
321,161	4.241	54	36	32	22	16	12	9	30	40	km 320 = 1170m
321,080	4.235	94	62	46	31	20	13	8	29	40	
321,000	4.282	48	36	30	22	15	10	7	30	40	
320,920	4.300	24	15	10	6	3	2	1	30	39	
320,842	4.266	56	42	35	25	18	12	9	30	40	
320,761	4.247	51	37	31	23	17	13	9	30	40	
320,682	4.251	71	50	40	29	20	13	9	30	40	
320,600	4.294	37	24	20	14	10	8	6	30	41	
320,521	4.216	86	66	54	40	28	18	12	30	40	
320,441	4.267	48	31	24	17	11	8	6	29	41	
320,360	4.212	63	43	35	26	18	12	8	30	42	
320,280	4.249	51	34	26	18	13	9	7	30	42	
320,201	4.228	61	43	35	27	20	15	10	30	44	
320,120	4.144	171	124	99	70	43	25	15	30	42	fim de ponte km 320,072
320,040	4.124	194	148	120	90	60	38	23	30	42	inicio de ponte km 320,008
319,800	4.305	39	23	19	14	10	7	5	30	43	km 319 = 840m
319,720	4.291	45	29	23	17	13	10	7	30	46	
319,641	4.295	27	16	13	11	9	8	6	31	45	
319,562	4.313	27	17	15	12	9	7	6	31	46	
319,480	4.272	60	42	33	23	15	10	7	31	45	
319,401	4.303	52	35	28	20	13	9	6	31	45	
319,320	4197 1	129	81	67	51	35	24	15	32	46	
319,240	4.284	72	54	45	34	24	17	12	32	45	
319,160	4.279	61	42	34	25	18	13	10	31	46	
319,080	4.189	74	51	41	30	20	13	9	32	45	
319,000	4.275	46	32	26	19	14	10	8	31	45	
318,920	4.401	40	25	19	13	9	7	6	26	30	km318 = 976m
318,840	4.344	58	37	28	18	11	7	5	26	29	
318,760	4.349	41	26	20	14	10	7	6	25	29	
318,677	4.315	34	23	17	12	8	5	5	25	29	
318,602	4.294	30	20	16	11	8	6	5	25	29	
318,520	4.327	21	14	11	9	7	5	4	25	27	
318,438	4.286	34	24	18	12	8	6	4	25	27	
318,361	4.330	31	20	14	10	6	4	3	24	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
318,281	4.296	42	26	19	12	8	5	3	24	28	
318,198	4.286	53	37	26	15	10	7	6	25	29	
318,121	4.323	33	23	18	13	9	7	5	24	27	
318,038	4.329	35	21	17	12	8	6	4	24	29	
317,960	4.325	39	25	20	14	10	8	6	24	28	km317 = 1023m
317,879	4.246	94	71	60	44	30	20	13	23	28	
317,800	4.329	35	25	21	15	11	8	6	23	28	
317,720	4.302	52	34	27	20	14	11	8	23	27	
317,638	4.327	46	31	26	21	16	12	9	24	28	
317,558	4.327	34	23	18	14	11	9	7	22	28	
317,479	4.282	44	30	25	19	14	10	8	24	28	
317,399	4.325	44	22	14	8	4	2	1	24	28	
317,320	4.296	58	35	26	17	11	7	4	24	28	
317,238	4.282	55	30	19	10	5	3	2	24	28	
317,161	4.264	80	58	48	36	27	19	13	23	29	
317,079	4.315	26	12	8	6	5	5	4	23	28	
317,000	4.363	47	25	18	13	9	7	5	24	28	
316,919	4.313	78	48	37	26	17	11	7	24	28	km316 = 995m
316,842	4.304	58	41	31	22	15	10	6	24	29	
316,760	4.294	66	41	30	20	12	7	4	23	28	
316,680	4.311	25	11	7	5	3	2	2	24	28	
316,599	4.304	63	36	23	14	8	5	3	24	29	
316,518	4.298	52	31	23	14	8	5	3	24	28	
316,439	4.276	43	27	20	14	9	6	4	24	29	
316,360	4.259	73	44	32	21	13	8	5	24	29	
316,280	4.203	114	82	67	50	35	23	13	24	29	
316,200	4.257	64	38	28	18	12	8	5	24	28	
316,118	4.262	60	34	22	12	6	3	1	23	28	
316,039	4.316	57	33	24	18	13	10	7	24	29	
315,960	4.316	60	37	27	18	12	8	6	24	28	km315 = 982m
315,879	4.300	63	32	21	13	8	6	4	25	28	
315,801	4.243	88	52	36	22	12	7	4	25	28	
315,720	4.190	163	118	92	65	41	25	15	24	28	
315,640	4.219	53	30	20	14	9	7	5	25	29	
315,560	4.321	25	14	10	7	5	4	3	25	29	
315,480	4.309	46	28	19	10	6	3	3	25	29	
315,401	4.298	36	19	12	7	5	3	3	24	29	
315,320	4.292	53	31	20	12	7	5	4	25	30	
315,240	4.332	42	24	16	10	7	5	4	25	30	
315,158	4.323	41	23	16	10	6	5	3	24	30	
315,079	4.366	35	20	14	9	6	3	3	24	30	
315,000	4.275	48	26	17	10	6	4	3	25	30	km314 = 1051m
314,920	4.298	35	19	13	8	6	5	4	25	30	
314,840	4.284	46	22	14	8	6	5	4	25	30	
314,760	4.298	30	17	12	8	5	4	3	26	30	
314,681	4.323	29	15	11	8	6	5	4	25	31	
314,601	4.284	36	20	14	10	7	6	5	25	30	
314,520	4.264	48	28	19	12	8	6	4	25	30	
314,439	4.291	46	28	20	12	7	5	4	25	31	
314,362	4.331	50	27	18	11	7	5	3	25	30	
314,279	4.266	45	28	20	13	8	6	5	26	31	
314,200	4.309	46	28	21	15	10	8	7	25	32	
314,121	4.303	38	24	19	14	10	8	6	25	31	
314,040	4.302	49	29	22	15	10	7	5	26	31	
313,958	4.277	51	32	23	16	11	8	6	26	31	km313 = 974m
313,881	4.293	77	54	43	32	24	18	14	25	31	
313,800	4.241	116	83	66	47	33	22	16	25	30	
313,721	4.201	182	142	118	87	60	39	24	25	31	
313,640	4.288	52	33	24	16	12	10	7	26	31	
313,561	4.264	106	79	66	51	36	25	17	26	31	
313,479	4.151	141	107	88	68	49	34	23	25	31	
313,399	4.126	216	169	137	100	66	41	23	25	31	
313,319	4.284	63	39	28	18	11	8	6	26	32	
313,240	4.309	61	40	29	19	11	7	4	26	32	
313,160	4.321	33	18	13	7	5	3	3	26	32	
313,079	4.269	57	34	25	17	12	10	8	25	32	
313,001	4.212	71	50	40	32	24	18	12	26	32	
312,918	4.042	272	216	174	120	64	29	11	26	32	km312 = 1000m
312,840	4.261	98	64	48	32	22	16	12	26	32	
312,759	4.228	71	48	37	26	18	13	9	26	33	
312,681	4.274	60	37	25	15	9	6	5	25	32	
312,600	4.311	52	33	25	17	12	9	7	26	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
312,518	4.320	44	26	17	10	7	5	4	27	32	
312,440	4.286	52	31	20	11	7	4	3	26	32	
312,360	4.259	42	24	17	11	7	6	4	26	33	
312,277	4.316	44	25	18	12	9	6	5	26	31	
312,198	4.307	35	22	17	12	9	7	6	27	33	
312,121	4.287	52	31	22	14	9	7	5	26	32	
312,041	4.253	52	30	21	13	8	6	5	26	33	
311,960	4.255	64	40	28	17	10	6	5	26	33	km 311 = 976m
311,880	4.259	73	45	32	19	11	7	5	27	33	
311,800	4.275	63	40	29	19	12	8	6	26	32	
311,718	4.250	63	42	31	20	12	8	6	27	32	
311,639	4.269	64	39	28	18	10	7	5	27	33	
311,558	4.261	39	23	15	10	7	6	4	27	32	
311,480	4.286	44	24	17	10	7	5	4	27	33	
311,401	4.284	41	22	15	9	6	4	4	26	33	
311,318	4.282	39	15	8	4	3	3	2	27	33	
311,238	4.323	50	27	18	10	6	4	4	27	32	
311,159	4.268	43	23	15	8	5	4	4	27	32	
311,081	4.266	41	23	14	8	4	3	3	26	32	
310,999	4.259	37	20	14	10	6	5	4	26	32	km 310 = 1022m
310,919	4.277	39	23	15	9	6	4	3	27	33	
310,840	4.288	26	13	8	5	4	3	2	27	32	
310,760	4.232	42	21	13	8	5	4	3	27	31	
310,680	4.243	60	35	22	12	6	4	3	27	33	
310,601	4.264	41	23	15	8	4	3	3	26	31	
310,520	4.284	40	20	12	6	4	3	2	26	32	
310,438	4.266	33	17	12	8	5	3	3	27	32	
310,360	4.282	28	15	11	8	6	5	4	27	33	
310,279	4.309	24	11	7	5	3	2	2	27	32	
310,201	4.291	31	14	9	6	4	3	3	27	32	
310,120	4.257	49	25	16	10	6	4	3	26	32	
310,040	4.237	39	18	12	7	5	4	3	26	32	
309,959	4.318	47	24	15	8	5	4	3	26	31	km 309 = 1000m
309,879	4.261	48	28	17	9	4	3	3	27	32	
309,799	4.329	28	14	9	6	4	3	3	27	31	
309,718	4.320	32	17	12	7	5	4	3	26	32	
309,640	4.295	34	21	15	10	6	4	3	26	31	
309,560	4.286	28	16	11	7	5	4	3	27	31	
309,481	4.302	48	30	19	8	5	4	3	27	31	
309,401	4.300	40	23	16	9	6	4	3	27	32	
309,321	4.309	27	14	8	5	3	2	2	27	32	
309,239	4.277	42	27	17	8	4	3	3	26	32	
309,157	4.253	48	30	19	10	5	4	3	27	32	
309,079	4.282	50	30	20	10	5	3	3	27	32	
309,081	4.263	31	18	11	7	5	4	3	27	32	km 308 = 1143m
309,000	4.286	36	20	13	8	6	5	4	28	32	
308,921	4.282	45	26	16	9	5	3	3	27	31	
308,843	4.263	45	28	19	11	6	4	3	27	31	
308,761	4.280	55	34	23	13	7	4	3	26	32	
308,680	4.252	49	30	20	11	6	4	3	26	31	
308,600	4.318	47	29	19	12	8	5	4	27	31	
308,521	4.269	32	18	12	8	5	4	3	27	31	
308,442	4.295	29	16	11	7	5	3	3	27	31	
308,362	4.286	30	18	12	8	5	3	2	26	31	
308,280	4.243	46	28	18	11	6	4	3	27	31	
308,201	4.296	35	21	15	10	7	5	4	26	30	
308,120	4.288	35	22	14	8	5	4	3	26	31	
308,040	4.241	38	26	20	15	10	7	5	26	30	
307,800	4.269	34	22	17	13	10	7	5	26	31	km 307 = 858m
307,721	4.254	40	26	19	14	10	7	5	26	30	
307,641	4.259	52	33	24	16	11	7	5	27	31	
307,560	4.257	53	36	27	17	10	6	5	27	31	
307,480	4.248	54	35	25	16	10	7	6	26	30	
307,398	4.315	49	31	23	16	11	8	6	26	30	
307,320	4.234	40	27	20	13	8	6	5	26	30	
307,240	4.253	36	23	16	11	8	6	5	26	29	
307,160	4.255	32	20	15	10	7	6	5	27	30	
307,081	4.277	35	22	16	10	7	6	4	27	31	
307,003	4.290	48	29	21	13	8	6	4	26	31	km 306 = 987m
306,918	4.293	59	38	27	16	8	5	3	26	30	
306,840	4.234	40	23	15	9	6	4	3	27	31	
306,760	4.234	51	29	18	10	5	3	3	26	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0				DATA: fev/2007					
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
306,681	4.218	35	23	16	10	6	4	3	26	31	
306,599	4.232	35	19	13	8	6	4	2	26	31	
306,519	4.232	29	16	11	7	5	4	3	27	31	
306,439	4.255	39	25	18	12	8	6	4	26	31	
306,361	4.302	30	17	12	7	4	3	2	26	30	
306,281	4.315	33	18	12	6	4	3	3	27	31	
306,201	4.336	34	20	14	8	4	3	2	27	30	
306,122	4.295	27	17	12	8	5	3	2	27	31	
306,040	4.264	33	19	13	8	5	4	3	27	31	
305,960	4.334	34	18	12	7	4	3	3	27	31	km 305 = 1000m
305,877	4.315	40	23	15	9	5	3	3	26	30	
305,799	4.325	39	23	14	8	5	3	3	26	30	
305,721	4.277	41	22	15	9	5	4	3	27	31	
305,640	4.293	48	26	17	9	5	4	3	26	30	
305,561	4.261	44	26	17	9	5	4	3	26	30	
305,479	4.298	23	13	9	6	3	3	3	26	30	
305,398	4.266	35	18	11	7	5	4	3	27	30	
305,318	4.267	30	17	11	7	4	3	3	27	30	
305,238	4.236	38	21	13	7	4	3	2	27	30	
305,160	4.228	35	19	12	7	4	3	3	27	29	
305,082	4.293	36	20	13	8	5	4	3	26	30	
305,000	4.257	51	30	19	11	7	5	3	26	30	km 304 = 1006m
304,919	4.248	52	29	18	10	7	5	4	26	30	
304,842	4.259	44	26	16	10	6	4	3	26	30	
304,761	4.259	46	26	16	9	6	4	3	26	30	
304,679	4.264	34	19	13	8	4	3	3	27	30	
304,600	4.295	37	21	14	9	6	4	3	27	29	
304,520	4.252	40	22	15	9	5	4	3	26	30	
304,441	4.324	34	20	14	9	7	5	3	26	30	
304,360	4.257	43	24	13	7	4	3	3	27	30	
304,279	4.329	22	11	8	6	5	4	3	27	30	
304,201	4.261	38	22	14	8	5	3	3	26	30	
304,119	4.350	32	17	11	7	5	4	3	26	30	
304,040	4.307	35	18	11	6	4	3	3	27	29	
303,960	4.269	22	11	7	5	4	3	3	27	29	km 303 = 970m
303,881	4.255	32	17	10	6	4	3	3	26	30	
303,799	4.327	30	15	10	7	5	4	3	26	30	
303,720	4.259	38	19	12	8	5	4	3	26	30	
303,640	4.251	50	26	15	8	5	4	3	25	30	
303,561	4.300	40	23	16	10	7	5	4	25	31	
303,478	4.279	73	46	31	17	8	4	3	25	30	
303,400	4.279	46	28	20	12	7	5	4	26	30	
303,319	4.277	33	21	15	9	5	4	3	25	30	
303,240	4.296	25	14	11	8	5	4	3	25	29	
303,158	4.288	41	25	19	12	7	5	4	25	30	
303,080	4.331	27	18	14	10	7	6	4	25	30	
303,000	4.286	40	24	18	13	9	7	5	26	30	
302,918	4.313	41	26	19	12	8	6	5	25	30	km 302 = 1050m
302,840	4.273	40	23	17	11	7	5	4	24	30	
302,759	4.282	39	24	19	12	7	5	4	25	30	
302,682	4.261	36	21	15	10	7	5	4	25	30	
302,600	4.281	39	26	20	13	8	5	4	25	30	
302,519	4.234	52	37	29	19	12	7	5	25	30	
302,441	4.255	55	36	27	18	12	8	6	25	29	
302,360	4.245	63	41	31	20	13	8	6	25	29	
302,281	4.214	48	31	24	16	9	6	5	25	29	
302,201	4.232	71	46	35	23	15	9	6	26	30	
302,121	4.257	54	35	27	18	12	8	6	25	29	
302,042	4.236	58	37	28	19	12	8	6	25	29	
301,960	4.298	43	26	18	11	7	5	3	29	33	km 301 = 980m
301,880	4.281	56	37	27	17	10	7	5	28	32	
301,800	4.304	59	37	27	17	10	7	5	28	32	
301,720	4.309	48	29	19	12	7	5	4	28	31	
301,640	4.263	72	44	30	18	9	5	4	27	26	
301,560	4.263	45	27	19	12	8	5	4	28	27	
301,479	4.290	56	36	26	16	10	7	5	28	32	
301,400	4.315	40	28	24	18	13	9	7	27	27	
301,321	4.306	55	39	29	19	11	6	3	28	34	
301,242	4.325	45	30	23	15	9	5	3	28	34	
301,161	4.323	35	24	19	14	9	6	5	28	35	
301,080	4.297	46	34	29	22	16	11	8	27	35	
301,001	4.333	33	22	18	13	9	7	5	28	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0				DATA: fev/2007					
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
300,921	4.327	41	25	19	13	9	6	5	28	35	km 300 = 1947m
300,840	4.335	33	24	20	16	13	10	7	29	35	
300,758	4.230	119	85	64	41	23	12	6	29	34	
300,680	4.274	85	59	45	31	21	14	9	28	34	
300,600	4.317	55	36	27	18	12	10	7	28	36	
300,521	4.338	33	23	18	13	9	7	6	28	35	
300,440	4.295	56	38	29	19	11	7	5	28	32	
300,360	4.295	40	27	19	12	7	6	5	29	36	
300,281	4.328	27	17	13	9	6	5	4	29	35	
300,200	4.295	40	25	16	9	6	5	3	28	37	
300,120	4.335	24	16	12	9	6	5	4	28	36	
300,041	4.365	31	20	16	11	7	5	4	29	37	
300,960	4.318	23	15	11	8	6	5	4	29	37	
300,880	4.315	26	18	15	12	4	4	3	29	36	
300,800	4.319	19	12	9	6	5	4	3	30	34	
300,721	4.326	22	14	11	9	7	5	4	30	36	
300,640	4.367	42	28	23	16	10	7	5	30	29	
300,559	4.337	27	19	16	12	9	7	5	30	35	
300,480	4.346	29	19	15	12	9	7	6	30	36	
300,400	4.306	49	34	27	20	16	12	10	29	35	
300,319	4.279	54	38	30	22	16	12	9	30	34	
300,240	4.298	43	26	18	11	7	5	3	29	33	início de ponte km 300,210
300,08000	4.337	20	13	11	8	6	5	4	30	34	fim de ponte km 300,156
300,000	4.281	56	37	27	17	10	7	5	29	32	
299,800	4.304	59	37	27	17	10	7	5	29	32	km 299 = 831m
299,720	4.309	48	29	19	12	7	5	4	29	31	
299,640	4.263	72	44	30	18	9	5	4	29	26	
299,560	4.263	45	27	19	12	8	5	4	29	27	
299,479	4.290	56	36	26	16	10	7	5	28	32	
299,400	4.300	36	24	19	13	9	6	4	28	36	
299,318	4.226	94	72	59	44	30	19	12	28	34	
299,240	4.277	72	54	46	36	27	18	12	29	34	
299,158	4.284	66	48	38	26	17	11	6	29	34	
299,081	4.313	46	30	23	16	10	7	4	29	35	
299,000	4.334	52	34	26	18	13	10	8	27	33	
299,159	4.272	76	55	45	33	23	15	9	28	35	km 298 = 1200m
299,080	4.250	119	78	55	34	17	10	7	28	35	
299,000	4.208	110	81	66	49	33	20	12	28	34	
298,920	4.245	108	77	59	39	25	15	10	28	34	
298,840	4.264	56	40	33	25	18	12	8	28	38	
298,758	4.249	73	51	39	28	18	12	8	29	37	
298,681	4.280	79	51	35	20	10	5	2	30	37	
298,597	4.248	91	63	45	27	14	8	5	30	36	
298,520	4.316	59	38	25	15	8	4	2	30	37	
298,440	4.304	72	47	34	21	12	7	4	29	36	
298,358	4.246	89	61	45	30	19	12	8	30	36	
298,279	4.216	123	87	67	46	28	16	9	30	37	
298,201	4.313	66	48	38	27	17	11	8	30	38	
298,121	4.262	85	63	52	40	29	21	15	29	37	
298,040	4.313	75	47	32	20	11	7	5	30	38	
297,960	4.284	85	62	51	37	26	17	11	29	38	km 297 = 1000m
297,880	4.298	74	50	38	27	18	12	8	29	38	
297,800	4.296	63	41	30	21	14	10	6	30	38	
297,720	4.275	78	56	43	30	21	14	10	30	33	
297,638	4.272	59	43	34	26	15	12	9	30	38	
297,560	4.318	22	14	12	10	8	7	5	30	40	
297,481	4.288	54	33	24	16	10	5	3	30	40	
297,399	4.267	76	51	37	24	13	8	4	30	38	
297,319	4.247	90	63	47	30	17	11	6	30	38	
297,240	4.263	48	37	32	25	19	14	10	31	40	
297,159	4.180	97	70	56	40	26	16	10	30	37	
297,080	4.311	42	32	27	21	15	10	7	30	40	
296,999	4.298	62	39	28	17	11	7	5	30	36	
296,919	4.255	80	57	46	33	21	13	8	30	37	km 296 = 1057m
296,839	4.247	78	58	47	34	22	14	9	30	37	
296,760	4.264	71	47	34	22	13	8	5	30	32	
296,681	4.185	103	78	63	46	31	19	12	30	35	
296,600	4.232	73	50	37	25	15	9	6	30	36	
296,521	4.198	101	78	63	47	33	22	15	30	35	
296,440	4.237	91	66	53	38	25	18	12	29	36	
296,359	4.284	60	41	31	23	17	12	9	30	36	
296,279	4.284	53	33	24	16	9	6	5	30	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
296,200	4.304	50	32	22	14	8	5	4	30	37	início de ponte km 296,150
296,038	4.248	36	26	22	16	11	8	6	29	37	fim de ponte km 296,050
295,958	4.250	42	28	21	14	9	6	4	28	36	km 295 = 1000m
295,879	4.266	74	52	42	31	21	15	11	28	35	
295,799	4.286	29	17	13	9	7	6	5	28	36	
295,721	4.294	59	38	31	22	16	12	9	29	36	
295,641	4.243	75	49	38	27	19	13	9	28	34	
295,560	4.324	35	21	16	11	8	6	5	29	37	
295,479	4.269	32	19	14	10	7	6	5	28	35	
295,402	4.255	45	25	16	10	7	5	4	29	33	
295,320	4.269	46	26	18	11	7	6	5	29	36	
295,238	4.311	45	27	19	12	8	6	5	30	38	
295,160	4.255	42	24	15	7	3	2	2	30	45	
295,079	4.248	49	31	23	13	7	5	3	29	37	
295,000	4.288	44	26	17	10	5	3	2	29	38	km 294 = 1000m
294,920	4.302	26	17	13	9	5	3	2	29	39	
294,838	4.243	38	24	18	11	7	5	4	30	38	
294,760	4.267	46	30	22	15	9	6	5	30	38	
294,679	4.244	30	20	16	12	8	6	4	30	39	
294,601	4.259	29	19	15	11	8	6	5	30	41	
294,518	4.323	31	20	16	10	6	4	3	30	39	
294,440	4.298	38	25	18	12	8	6	4	30	38	
294,359	4.272	36	23	17	11	8	6	4	30	40	
294,281	4.277	44	29	22	15	9	6	5	30	39	
294,199	4.255	39	25	19	14	9	7	4	30	36	
294,121	4.232	46	30	21	13	8	6	5	30	40	
294,042	4.263	43	25	17	11	7	5	4	30	42	
293,960	4.248	59	36	24	15	10	8	7	30	43	km 293 = 1000m
293,879	4.226	54	36	28	19	14	11	9	30	43	
293,799	4.257	56	38	27	18	12	10	8	30	41	
293,719	4.216	48	31	23	16	11	9	7	31	43	
293,639	4.253	54	35	26	18	13	11	9	31	43	
293,560	4.250	50	32	23	15	11	9	7	31	43	
293,480	4.251	55	35	25	16	11	8	6	31	43	início de ponte km 293,345
293,399	4.212	81	56	40	25	14	8	6	31	44	fim de ponte km 293,300
293,239	4.255	36	23	18	13	10	7	5	32	45	
293,159	4.193	89	69	57	44	32	24	17	32	44	
293,079	4.146	147	113	92	68	45	29	17	31	45	
293,001	4.235	55	34	24	16	11	9	7	32	46	
292,918	4.243	53	34	25	17	12	9	6	32	45	km 292 = 1000m
292,838	4.272	55	35	25	16	12	9	7	32	46	
292,759	4.261	85	59	38	20	10	7	5	32	44	
292,681	4.237	84	57	39	23	14	9	6	31	43	
292,597	4.296	50	35	28	19	13	9	6	32	45	
292,520	4.261	48	31	20	11	6	4	4	32	43	
292,437	4.293	21	13	10	8	6	4	3	32	43	
292,360	4.275	25	16	13	10	7	6	4	32	39	
292,278	4.325	38	26	16	7	4	3	2	32	44	
292,199	4.293	26	15	11	8	6	4	3	32	45	
292,119	4.255	42	24	15	7	3	2	2	31	45	
292,040	4.296	32	19	13	7	4	4	3	31	48	
291,959	4.270	45	23	15	8	4	4	3	32	47	km 291 = 1000m
291,880	4.286	39	23	15	8	5	4	3	32	47	
291,800	4.333	33	18	12	6	4	3	2	32	46	
291,720	4.313	59	33	17	8	4	3	3	33	44	
291,639	4.293	58	35	20	8	5	4	3	32	43	
291,561	4.336	54	33	20	9	5	4	3	31	44	
291,481	4.286	60	30	16	8	6	5	3	32	43	
291,400	4.315	73	44	25	12	7	5	3	31	45	
291,321	4.313	103	65	43	25	15	9	6	32	45	
291,240	4.234	132	94	68	46	30	20	13	32	45	
291,158	4.272	80	55	38	24	16	13	10	32	45	
291,080	4.290	58	33	20	10	6	5	4	31	48	
291,000	4.321	57	35	25	15	10	7	5	32	48	
290,920	4.319	79	49	31	18	10	6	4	32	48	km 290 = 1000m
290,840	4.252	66	41	24	12	6	4	3	31	48	
290,760	4.290	95	64	44	26	16	10	7	31	49	
290,679	4.317	82	54	32	19	11	7	5	32	48	
290,601	4.265	78	54	39	22	13	8	6	32	49	
290,521	4.243	123	89	66	46	33	22	14	31	48	
290,438	4.234	47	30	21	13	9	7	6	31	48	
290,357	4.247	77	50	36	20	10	5	4	31	49	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
290,281	4.181	84	50	31	21	13	8	6	32	47	
290,200	4.245	122	84	61	41	29	21	15	32	47	
290,119	4.313	87	53	33	21	14	11	8	32	49	
290,040	4.304	32	22	18	13	9	6	4	31	48	
289,960	4.248	57	34	20	13	8	6	4	32	45	km 289 = 1000m
289,879	4.280	52	31	23	15	9	6	4	32	45	
289,800	4.296	56	30	18	12	8	6	4	32	42	
289,718	4.327	20	15	13	11	8	6	4	32	45	início de ponte km 289,700
289,638	4.261	52	30	21	12	7	5	3	31	44	fim de ponte km 289,650
289,562	4.295	57	35	24	13	7	5	3	32	44	
289,479	4.289	54	32	22	13	7	4	3	32	43	
289,399	4.304	74	46	29	16	9	6	5	32	40	
289,319	4.226	65	31	21	14	10	6	4	32	40	
289,237	4.311	79	41	26	14	9	7	5	32	39	
289,160	4.302	49	33	24	16	10	8	6	32	40	
289,080	4.162	130	95	70	43	23	13	7	32	39	
288,998	4.273	72	45	27	14	7	4	3	32	39	
288,918	4.253	110	80	60	38	24	17	12	32	41	km 288 = 1000m
288,838	4.321	56	38	27	15	8	6	5	31	40	
288,761	4.286	42	32	27	19	13	9	6	32	41	
288,680	4.300	77	51	34	18	10	7	5	32	40	
288,599	4.275	78	52	38	24	15	12	9	32	40	
288,521	4.275	88	67	56	41	29	21	14	32	41	
288,442	4.318	73	51	41	29	20	15	10	32	41	
288,358	4.286	22	13	11	10	8	6	5	32	41	
288,281	4.264	54	38	30	21	14	10	8	31	40	
288,202	4.253	73	51	40	29	20	13	9	32	41	
288,118	4.352	22	13	11	9	7	6	5	32	41	
288,040	4.336	17	13	12	10	9	7	6	32	40	
287,960	4.287	15	12	11	9	7	6	4	32	42	km 287 = 1000m
287,880	4.264	18	11	9	7	5	4	3	32	41	
287,799	4.300	35	20	14	8	4	3	2	32	42	
287,719	4.284	45	26	17	8	4	3	2	32	41	
287,639	4.345	13	10	8	6	4	3	3	32	44	
287,558	4.289	16	12	9	6	4	3	2	32	44	
287,482	4.307	14	10	8	6	4	3	3	32	43	
287,401	4.277	28	21	17	12	8	5	4	33	43	
287,319	4.272	41	28	22	14	10	7	6	32	43	
287,240	4.262	21	16	13	9	5	3	2	32	44	
287,160	4.257	25	18	15	10	7	5	3	32	44	
287,078	4.291	28	20	17	11	7	4	3	32	44	
287,001	4.274	13	11	10	8	7	5	4	23	29	
286,920	4.308	17	13	10	7	5	4	3	23	29	km 286 = 1000m
286,841	4.302	19	11	8	5	4	3	3	24	29	
286,760	4.324	15	12	10	7	5	3	2	24	30	
286,680	4.277	17	13	11	7	5	4	3	25	30	
286,600	4.284	36	24	17	10	5	3	3	25	30	
286,519	4.269	25	16	12	8	5	3	3	24	31	
286,440	4.292	19	14	11	8	6	4	3	25	30	
286,360	4.295	26	17	13	7	4	3	2	25	30	
286,279	4.317	18	12	10	8	6	5	3	25	30	
286,197	4.279	8	7	6	5	4	3	3	26	31	
286,117	4.286	7	5	4	4	3	2	2	26	30	
286,041	4.318	17	12	10	7	5	3	3	26	31	
285,959	4.319	27	18	13	8	4	3	2	27	31	km 285 = 1030m
285,878	4.296	34	20	14	8	5	4	3	26	31	
285,799	4.300	23	17	15	11	7	4	3	26	31	
285,719	4.295	38	24	20	13	8	5	3	27	30	
285,637	4.317	38	22	15	6	4	3	3	27	31	
285,560	4.410	25	14	9	6	4	4	3	27	32	
285,479	4.389	17	12	10	7	4	3	2	27	31	
285,397	4.325	25	16	11	6	3	3	2	26	31	
285,319	4.324	18	11	8	5	3	3	2	27	31	
285,241	4.322	20	12	8	5	3	3	2	27	32	
285,160	4.304	29	18	13	7	4	3	2	27	31	
285,077	4.290	32	22	14	7	3	3	2	27	31	
285,001	4.284	35	22	15	9	5	4	3	28	31	
284,920	4.304	16	11	9	7	4	3	3	28	31	km 284 = 1000m
284,841	4.322	14	9	8	5	4	2	2	28	30	
284,760	4.338	29	15	9	6	4	4	3	27	31	
284,680	4.320	29	20	14	8	4	3	2	28	32	
284,597	4.367	46	29	17	7	4	3	3	28	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
284,518	4.304	38	24	16	9	4	3	3	28	32	
284,440	4.277	34	23	16	9	4	3	3	28	31	
284,360	4.264	41	26	15	8	4	3	2	27	31	
284,280	4.298	35	22	13	6	3	3	2	28	31	
284,199	4.304	25	18	15	10	6	4	3	28	32	
284,117	4.263	29	19	14	7	4	3	3	28	32	
284,041	4.340	33	23	14	8	5	3	3	27	31	
283,960	4.338	25	18	14	9	5	4	3	27	38	km 283 = 1026m
283,879	4.274	47	32	24	15	10	8	6	28	37	
283,800	4.294	33	21	15	8	5	3	2	28	40	
283,719	4.315	41	30	24	17	10	6	4	29	40	
283,640	4.335	19	12	8	5	3	3	2	29	40	
283,559	4.322	24	15	11	7	5	3	3	29	43	
283,479	4.327	28	18	13	7	5	4	3	28	42	
283,401	4.332	40	25	18	11	6	4	3	29	43	
283,319	4.311	19	13	10	6	4	3	2	30	42	
283,242	4.340	27	17	12	7	4	3	3	30	42	
283,159	4.288	30	17	9	5	3	3	2	30	42	
283,079	4.300	35	21	13	6	3	2	2	30	43	
282,999	4.303	28	18	13	8	4	3	2	30	42	
282,920	4.292	21	14	11	5	3	2	2	31	42	km 282 = 1000m
282,840	4.303	16	11	8	5	3	2	2	30	44	
282,760	4.299	23	16	11	6	3	2	2	30	44	
282,678	4.284	26	17	11	6	3	2	2	30	43	
282,600	4.308	11	7	6	4	3	2	2	31	43	
282,521	4.292	13	8	7	4	3	2	2	31	43	
282,438	4.297	24	14	10	5	3	2	2	31	44	
282,358	4.286	18	12	9	6	4	2	2	32	45	
282,280	4.308	25	15	11	6	4	3	2	32	44	
282,199	4.299	19	13	10	6	4	3	2	32	44	
282,119	4.286	27	18	13	8	4	3	2	31	45	
282,039	4.290	25	15	10	6	4	3	2	32	45	
281,958	4.284	32	19	12	7	4	3	3	32	45	km 281 = 1000m
281,881	4.297	27	18	14	10	7	6	5	32	45	
281,800	4.288	36	24	16	10	7	5	4	32	44	
281,719	4.268	52	36	26	15	8	5	4	32	45	
281,640	4.308	41	28	21	12	7	5	4	31	44	
281,558	4.305	19	14	10	7	5	4	3	31	46	
281,480	4.300	20	16	14	11	8	6	5	32	46	
281,399	4.285	35	24	18	11	6	4	3	32	45	
281,321	4.270	33	23	18	12	7	5	4	32	46	
281,240	4.294	21	15	12	9	6	5	4	32	46	
281,160	4.270	19	13	10	7	5	4	3	32	45	
281,075	4.283	17	12	11	8	6	5	4	31	45	
280,999	4.259	62	45	35	22	12	6	4	32	45	
280,919	4.268	43	31	24	16	9	6	5	32	46	km 280 = 1000m
280,837	4.296	45	31	23	14	8	5	4	32	45	
280,760	4.288	39	25	17	9	4	2	2	32	46	
280,680	4.299	39	27	19	11	5	3	2	32	46	
280,599	4.267	29	20	15	9	6	4	3	32	46	
280,519	4.286	26	19	16	12	8	6	4	32	46	
280,440	4.321	15	12	11	9	7	5	4	31	47	
280,359	4.268	21	13	10	6	3	3	2	32	46	
280,281	4.299	21	13	8	5	3	3	2	32	44	
280,199	4.290	22	14	8	4	3	3	2	33	44	
280,120	4.272	26	16	12	7	5	4	3	32	44	
280,038	4.280	25	14	9	6	4	3	3	32	44	
279,959	4.297	36	22	15	8	4	3	3	32	44	km 279 = 985m
279,881	4.261	29	18	12	8	6	3	3	32	43	
279,801	4.278	35	22	14	7	4	3	3	33	44	
279,719	4.274	32	17	10	6	4	3	3	32	43	
279,639	4.284	36	23	16	10	7	3	3	32	43	
279,560	4.292	21	13	10	7	5	4	3	32	42	
279,480	4.375	30	20	15	10	6	3	2	33	43	
279,400	4.300	21	15	14	11	8	6	5	33	44	
279,320	4.285	36	25	18	11	6	4	3	33	43	
279,241	4.270	34	26	18	12	7	5	4	32	44	
279,160	4.294	22	17	12	9	6	5	4	32	43	
279,080	4.270	18	14	10	7	5	4	3	32	42	
279,001	4.311	40	23	16	10	7	6	5	32	42	
278,921	4.270	53	36	28	19	12	9	7	32	41	km 278 = 1017m
278,840	4.279	75	56	46	33	22	15	10	33	42	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
278.759	4.249	73	54	42	29	18	12	8	32	41	
278.680	4.252	52	38	29	19	12	7	4	32	42	
278.601	4.224	59	44	36	25	17	11	8	32	43	
278.521	4.224	78	57	44	29	17	10	5	31	43	
278.439	4.212	75	56	45	29	17	10	6	32	42	
278.361	4.205	77	59	46	29	16	9	6	32	44	
278.281	4.284	60	44	34	23	14	9	6	32	43	
278.200	4.209	126	101	81	57	34	20	12	32	43	
278.121	4.297	33	21	13	7	4	3	2	31	44	
278.042	4.229	91	71	58	40	25	15	10	32	44	
277.960	4.296	10	7	7	5	4	3	2	32	43	km 277 = 990m
277.879	4.267	67	49	37	25	16	10	6	32	44	
277.799	4.281	68	51	39	26	16	10	6	32	44	
277.719	4.281	17	14	13	12	10	8	7	32	45	
277.640	4.270	71	49	35	20	9	4	2	31	45	
277.558	4.247	58	42	30	19	11	7	4	32	44	
277.482	4.259	70	49	37	23	13	8	4	32	45	
277.400	4.277	45	28	18	9	4	2	2	32	45	
277.321	4.295	52	35	28	20	13	9	7	32	46	
277.241	4.222	82	61	48	33	21	13	8	32	46	
277.159	4.218	98	74	59	40	24	13	6	31	46	
277.079	4.241	48	33	25	17	10	6	4	32	47	
277.000	4.272	72	52	38	23	11	4	1	32	47	
276.919	4.237	74	55	43	28	15	6	2	33	46	km 276 = 1000m
276.840	4.225	108	79	61	37	17	5	0	33	46	
276.759	4.288	37	24	17	10	5	3	1	33	46	
276.677	4.229	81	65	55	40	26	16	10	33	46	
276.600	4.197	99	81	70	54	36	21	10	32	46	
276.520	4.247	65	46	35	21	9	4	2	33	46	
276.441	4.259	55	30	18	10	6	5	4	33	46	
276.359	4.249	65	43	33	25	18	14	9	33	47	
276.282	4.267	64	39	29	21	15	11	8	32	47	
276.200	4.239	54	41	33	24	17	12	9	33	46	
276.118	4.227	67	52	43	30	20	14	9	33	48	
276.041	4.251	63	49	40	27	17	12	8	33	46	
275.960	4.256	51	36	26	17	12	9	7	32	46	km 275 = 1000m
275.877	4.243	63	51	44	34	24	17	12	32	46	
275.799	4.233	72	51	39	26	18	13	9	33	46	
275.717	4.258	43	30	24	17	12	9	7	32	46	
275.641	4.303	42	29	24	17	12	9	6	33	46	
275.560	4.267	37	24	18	12	7	5	4	32	45	
275.481	4.261	35	23	18	13	9	6	5	32	45	
275.401	4.308	33	21	17	11	7	5	4	33	45	
275.321	4.245	58	38	29	19	11	7	5	32	45	
275.240	4.238	69	53	45	35	26	19	14	32	45	
275.160	4.184	77	62	55	45	35	26	18	32	45	
275.080	4.224	50	37	31	23	16	11	8	32	44	
275.000	4.198	86	67	57	44	31	22	15	32	44	
274.920	4.278	29	21	18	14	11	8	7	32	44	km 274 = 1000m
274.840	4.274	22	16	13	10	7	5	2	32	44	
274.758	4.265	36	26	22	17	12	8	6	32	44	
274.680	4.286	30	23	20	16	11	7	5	33	44	
274.598	4.283	19	14	10	5	3	2	2	32	44	
274.521	4.283	45	31	24	16	10	6	5	32	45	
274.440	4.306	13	9	9	7	5	4	3	32	45	
274.360	4.229	69	51	40	28	18	13	9	31	45	
274.279	4.278	43	28	22	17	12	9	6	32	45	
274.199	4.249	52	36	30	23	17	12	8	33	45	
274.118	4.252	52	34	26	18	11	7	4	32	44	
274.040	4.286	25	15	11	7	4	3	2	32	43	
274.120	4.240	34	21	16	12	8	6	4	32	43	km 273 = 1135m
274.041	4.278	26	16	13	9	6	3	2	32	44	
273.960	4.259	40	28	21	13	9	6	4	32	45	
273.880	4.258	33	25	22	18	14	11	9	32	45	
273.800	4.270	38	26	21	14	9	5	3	32	46	
273.721	4.265	23	15	13	9	7	5	4	32	46	
273.642	4.252	27	20	17	13	10	7	5	31	45	
273.562	4.220	86	65	53	39	27	17	11	32	46	
273.480	4.249	55	39	31	21	14	9	6	32	46	
273.400	4.297	9	6	6	5	4	3	3	32	46	início de ponte km 273,360
273.000	4.290	9	4	4	4	3	3	2	32	46	
272.922	4.286	24	15	12	8	5	3	3	32	46	km 272 = 990m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
272,841	4.306	16	13	11	9	6	5	3	32	47	
272,760	4.286	23	18	16	12	7	5	4	32	46	
272,680	4.291	16	12	11	8	6	5	3	33	47	
272,600	4.315	16	12	11	8	6	4	3	32	46	
272,521	4.300	22	16	14	10	7	5	4	33	47	
272,440	4.284	33	23	18	12	7	5	4	33	46	
272,360	4.257	22	18	16	12	8	5	4	33	47	
272,281	4.282	26	17	15	12	8	6	4	32	47	
272,200	4.290	18	14	12	10	7	5	3	32	47	
272,120	4.270	18	14	12	9	6	5	3	32	46	
272,040	4.270	22	14	11	8	5	4	3	32	45	
271,960	3.840	8	5	5	3	3	3	2	24	26	km 271 = 1000m
271,880	3.838	11	7	7	6	5	4	3	24	26	
271,799	3.803	24	15	14	9	6	4	3	24	26	
271,719	3.833	11	8	8	7	5	4	3	24	26	
271,640	3.824	16	11	11	8	6	4	2	24	26	
271,559	3.857	11	8	8	5	5	4	2	24	26	
271,480	3.822	18	12	9	7	5	3	2	24	26	
271,399	3.815	32	20	18	13	9	7	5	24	26	
271,319	3.837	16	11	11	9	6	4	2	24	26	
271,238	3.820	25	17	17	15	10	8	5	24	26	
271,160	3.819	15	11	11	9	8	7	5	24	26	
271,079	3.820	35	21	17	11	5	3	2	24	26	
271,000	3.831	23	13	11	7	4	3	2	25	26	
270,920	3.803	31	19	17	11	8	5	3	24	26	km 270 = 1000m
270,839	3.812	31	17	14	10	5	4	2	25	26	
270,758	3.817	21	12	11	7	4	2	1	25	26	
270,680	3.834	22	13	12	7	4	2	1	24	26	
270,599	3.822	29	17	14	8	5	3	2	25	26	
270,519	3.800	31	18	16	10	5	3	2	25	26	
270,439	3.813	15	9	8	5	3	2	2	25	26	
270,360	3.805	6	4	4	3	2	2	1	24	26	
270,280	3.752	30	20	19	15	10	6	4	25	26	
270,199	3.741	39	25	24	18	12	8	5	25	26	
270,118	3.725	30	21	20	17	11	8	5	25	26	
270,039	3.770	19	12	11	8	6	4	3	24	26	
269,960	3.596	62	37	34	25	17	12	7	24	26	km 269 = 1000m
269,880	3.660	42	22	18	11	6	4	2	25	26	
269,800	3.625	65	34	28	15	7	2	0	25	26	
269,720	3.375	101	61	56	38	21	12	7	25	26	
269,640	3.628	35	24	24	19	12	7	4	25	26	
269,560	3.567	59	39	37	26	16	10	6	24	26	
269,480	3.624	30	20	20	15	11	8	5	25	26	
269,400	3.563	79	50	48	27	16	9	6	24	26	
269,320	3.599	41	31	29	24	17	11	7	24	26	
269,240	3.563	107	61	51	23	13	7	4	25	26	
269,159	3.631	23	16	16	11	9	7	4	25	26	
269,080	3.554	84	56	51	30	18	11	6	25	26	
269,000	3.534	107	65	60	43	23	13	8	25	26	
268,920	3.588	61	41	41	30	19	12	7	25	26	km 268 = 1000m
268,840	3.622	25	14	14	10	6	5	4	24	26	
268,760	3.480	129	80	73	44	25	15	9	25	26	
268,679	3.608	38	26	26	19	13	8	5	25	26	
268,599	3.601	48	30	28	20	12	7	3	25	26	
268,519	3.655	43	27	23	14	6	2	1	25	26	
268,439	3.559	96	49	41	23	11	6	3	25	26	
268,359	3.625	36	21	19	12	7	4	3	25	26	
268,279	3.655	71	43	41	28	16	9	5	24	26	
268,199	3.709	31	19	18	13	8	5	3	25	26	
268,119	3.635	85	48	40	23	11	6	4	25	26	
268,038	3.676	81	43	34	17	8	5	3	25	26	
267,960	3.642	99	58	44	23	12	7	4	24	26	km 267 = 1000m
267,880	3.730	40	26	26	18	11	7	4	24	25	
267,800	3.658	61	40	38	27	18	11	6	24	25	
267,719	3.675	28	18	18	14	10	7	5	24	25	
267,640	3.722	20	13	12	8	6	5	3	24	27	
267,560	3.629	34	26	25	19	15	11	7	24	27	
267,478	3.748	15	11	11	8	6	5	3	25	27	
267,400	3.776	18	12	13	9	7	5	3	24	27	
267,320	3.643	72	49	48	36	26	18	11	24	27	
267,239	3.734	16	11	10	9	7	6	5	24	27	
267,159	3.694	64	44	43	31	20	14	9	24	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
267,079	3.714	23	14	12	11	7	3	3	24	27	
267,000	3.737	55	30	24	13	8	6	5	23	27	
266,839	3.729	33	19	17	11	6	4	3	23	27	km 266 = 1065m
266,760	3.535	135	83	72	45	28	20	13	23	27	
266,680	3.696	53	34	31	22	16	11	7	23	27	
266,599	3.658	72	44	42	29	22	16	10	23	27	
266,520	3.723	51	29	24	15	9	6	4	23	27	
266,439	3.705	61	32	25	14	7	4	3	23	27	
266,360	3.675	49	29	25	14	7	4	2	23	27	
266,279	3.671	36	23	22	15	10	6	4	23	27	
266,200	3.700	32	20	18	11	7	4	3	23	27	
266,119	3.685	31	21	19	12	7	4	2	23	27	
266,040	3.707	32	19	17	11	7	4	2	23	27	
265,960	3.651	78	42	35	20	8	5	3	24	27	
265,960	3.638	48	31	29	20	12	7	4	23	27	km 265 = 1000m
265,820	3.651	31	21	20	15	10	7	4	24	27	
265,799	3.599	53	36	36	24	15	10	5	23	27	
265,720	3.645	68	45	41	24	11	4	3	23	27	
265,639	3.625	67	38	34	19	11	5	4	23	27	
265,560	3.680	37	23	21	14	9	6	3	23	27	
265,480	3.625	48	32	32	25	17	10	6	23	27	
265,399	3.613	39	25	22	15	9	6	4	22	27	
265,320	3.662	46	29	28	20	13	8	5	23	27	
265,239	3.711	31	19	17	11	6	3	3	23	27	
265,157	3.648	43	22	17	10	5	3	2	22	27	
265,079	3.665	32	23	21	14	8	5	3	23	27	
264,999	3.751	27	17	16	11	7	4	3	22	27	
264,919	3.756	43	25	18	10	5	4	2	23	27	km 264 = 1000m
264,839	3.726	39	20	17	10	6	4	3	23	27	
264,759	3.761	24	14	13	10	5	3	2	23	27	
264,679	3.746	54	27	22	13	7	6	4	23	27	
264,600	3.723	43	24	16	9	6	4	3	23	27	
264,519	3.676	62	35	25	12	5	3	2	23	27	
264,439	3.736	40	22	17	9	5	3	2	22	27	
264,358	3.741	17	10	9	6	3	3	2	22	27	
264,279	3.758	29	16	13	8	5	3	2	22	27	
264,200	3.736	31	18	14	8	5	4	2	22	27	
264,119	3.700	28	17	14	9	5	3	2	22	27	
264,038	3.709	37	18	14	8	5	3	2	22	27	
263,960	3.759	20	13	11	8	4	3	2	22	27	km 263 = 1000m
263,879	3.712	47	26	17	6	2	2	1	22	27	
263,798	3.718	41	22	17	9	4	2	2	22	27	
263,719	3.734	34	20	15	9	5	3	2	22	27	
263,639	3.726	32	15	10	5	2	1	1	22	27	
263,560	3.716	34	19	14	8	4	3	2	22	27	
263,480	3.714	28	13	9	5	2	2	1	22	27	
263,399	3.773	31	17	13	7	5	3	2	22	27	
263,320	3.704	38	21	15	8	4	1	1	22	27	
263,239	3.696	57	30	21	11	4	3	2	22	27	
263,160	3.692	52	32	23	12	4	2	2	22	27	
263,079	3.702	63	24	21	11	3	2	1	23	27	
263,000	3.678	51	21	16	9	4	2	2	22	27	
262,920	3.648	48	28	18	9	4	2	2	22	27	km 262 = 1000m
262,840	3.687	40	22	17	10	4	2	2	22	27	
262,759	3.696	52	25	15	7	4	3	2	23	27	
262,680	3.680	47	22	15	6	3	2	2	23	27	
262,600	3.714	50	24	15	7	4	2	2	23	27	
262,519	3.689	41	19	13	7	3	2	2	23	27	
262,439	3.763	24	14	11	6	3	2	1	22	27	
262,359	3.756	19	11	9	6	3	2	1	23	27	
262,280	3.768	24	13	10	7	3	2	1	23	27	
262,199	3.759	35	19	16	10	5	3	2	23	27	
262,119	3.709	77	34	23	11	6	4	2	23	27	
262,039	3.763	24	15	13	10	5	3	2	23	27	
261,960	3.743	24	15	13	7	4	3	1	23	27	km 261 = 1000m
261,878	3.730	31	19	16	9	5	3	2	23	27	
261,800	3.719	23	14	12	8	4	2	2	23	27	
261,719	3.716	38	21	16	9	4	2	2	23	27	
261,639	3.730	18	12	11	8	3	2	1	23	27	
261,558	3.732	24	15	13	9	5	2	2	23	27	
261,480	3.743	45	24	17	10	3	2	1	23	27	
261,400	3.748	23	14	12	6	2	1	1	23	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
261,320	3.752	40	23	18	9	3	2	2	24	27	
261,239	3.765	24	14	12	7	3	2	1	24	27	
261,159	3.761	27	16	14	9	3	2	1	24	27	
261,079	3.719	33	18	15	10	6	4	3	24	27	
261,000	3.748	52	28	21	11	5	2	2	24	27	
260,919	3.696	57	29	22	12	6	3	2	24	27	km 260 = 1000m
260,839	3.729	22	13	11	8	4	3	3	24	27	
260,759	3.667	61	36	27	14	6	4	3	24	27	
260,679	3.694	56	27	22	11	5	3	2	24	27	
260,600	3.672	67	27	18	8	4	3	2	24	27	
260,520	3.672	80	37	28	13	6	3	2	24	27	
260,439	3.705	27	15	12	7	3	2	1	24	27	
260,360	3.696	58	35	28	14	6	3	2	24	27	
260,280	3.697	29	17	15	8	5	3	2	24	27	
260,200	3.655	62	29	17	5	3	1	2	24	27	
260,120	3.678	41	21	16	8	5	3	2	24	27	
260,039	3.702	33	18	13	7	4	3	2	24	27	
259,959	3.722	59	29	20	9	4	2	2	24	27	km 259 = 1060m
259,878	3.692	62	32	24	11	5	2	2	24	27	
259,799	3.725	47	25	20	11	5	3	2	24	27	
259,720	3.689	48	26	17	10	5	4	3	24	27	
259,638	3.689	31	15	11	6	3	2	1	24	27	
259,559	3.704	43	23	14	8	2	1	1	24	27	
259,479	3.682	48	26	20	9	5	3	2	24	27	
259,399	3.687	41	22	19	11	6	4	3	24	27	
259,319	3.665	49	25	20	9	4	4	2	24	27	
259,239	3.732	27	17	14	8	4	2	2	24	27	
259,158	3.793	26	15	13	8	4	3	2	24	27	
259,081	3.752	35	19	14	14	4	3	2	24	27	
259,000	3.791	28	17	13	8	4	3	2	24	28	
258,820	3.726	61	37	28	16	6	1	1	24	28	km 258 = 850m
258,840	3.689	94	47	35	19	7	3	2	24	28	
258,759	3.709	69	27	17	7	4	3	2	24	28	
258,680	3.776	42	23	13	5	3	2	2	24	28	
258,599	3.752	84	34	26	13	6	3	2	25	28	
258,518	3.783	46	26	18	9	4	3	2	24	28	
258,438	3.763	37	20	16	9	5	4	2	24	28	
258,361	3.714	55	28	21	11	4	3	2	25	28	
258,279	3.725	44	24	17	10	5	3	2	24	28	
258,199	3.719	56	27	22	14	7	4	3	25	28	
257,960	3.655	77	41	34	18	9	4	2	25	28	km 257 = 1000m
257,880	3.648	69	40	31	18	9	5	4	25	28	
257,799	3.689	43	23	17	9	5	4	3	24	28	
257,719	3.669	63	28	19	9	4	3	3	24	28	
257,638	3.655	39	23	18	12	7	4	4	25	28	
257,561	3.692	19	12	11	8	5	3	2	25	30	
257,480	3.705	32	19	15	7	3	2	2	25	30	
257,401	3.725	42	24	18	9	4	2	2	24	30	
257,320	3.730	31	16	12	6	3	2	2	25	30	
257,239	3.685	43	21	14	6	3	2	1	24	30	
257,160	3.672	64	32	21	10	5	4	3	25	30	
257,080	3.658	52	27	20	11	5	4	2	25	30	
257,000	3.694	26	15	12	7	4	2	2	25	30	
256,920	3.719	26	16	14	9	5	3	2	25	30	km 256 = 1000m
256,840	3.704	22	13	11	7	4	2	1	25	30	
256,760	3.709	30	17	14	8	4	2	2	26	30	
256,678	3.711	29	15	12	7	3	2	2	25	30	
256,599	3.718	38	17	12	6	3	1	1	25	30	
256,521	3.719	27	16	13	8	4	3	2	25	30	
256,440	3.719	29	16	12	7	3	2	2	25	32	
256,360	3.743	36	20	16	10	4	2	1	26	32	
256,278	3.658	75	38	31	13	6	3	2	25	32	
256,198	3.734	38	23	19	11	5	3	2	26	32	
256,121	3.723	47	24	18	11	5	4	3	25	32	
256,038	3.678	36	22	20	13	7	4	2	26	32	
255,960	3.655	55	33	29	16	8	5	3	26	32	km 255 = 1000m
255,881	3.709	43	21	16	9	4	2	1	26	32	
255,798	3.683	55	27	21	11	5	3	2	26	32	
255,721	3.711	49	25	17	7	3	2	1	25	32	
255,641	3.729	52	23	16	6	3	2	2	26	32	
255,559	3.754	21	12	11	7	4	2	2	26	32	
255,480	3.687	40	18	13	9	4	2	2	26	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
255,399	3.678	33	18	12	7	4	2	1	26	32	
255,320	3.687	34	17	12	7	4	2	1	26	32	
255,240	3.725	23	14	12	8	5	1	2	26	32	
255,158	3.758	21	13	11	6	3	2	2	26	32	
255,080	3.697	43	21	15	7	4	2	2	26	32	
254,999	3.690	53	27	17	8	3	1	1	26	32	km 254 = 1057m
254,919	3.711	36	20	17	12	5	3	3	26	32	
254,840	3.667	70	33	22	11	5	3	2	26	32	
254,758	3.665	65	32	27	16	8	4	3	26	32	
254,678	3.689	44	26	22	15	9	6	4	26	32	
254,599	3.685	46	23	19	14	9	7	5	26	32	
254,518	3.702	49	27	22	15	9	6	4	27	32	
254,440	3.714	46	26	21	13	7	4	3	26	32	
254,359	3.722	27	15	12	9	6	4	3	26	32	
254,280	3.689	64	40	37	29	18	10	6	26	32	
254,201	3.642	87	50	45	31	19	14	8	27	32	
254,121	3.692	69	40	37	27	18	12	8	27	32	
254,039	3.744	63	38	30	19	8	4	2	27	32	
253,959	3.751	51	25	19	13	5	2	1	26	32	
253,880	3.689	82	51	45	34	17	8	4	27	32	km 253 = 930m
253,798	3.687	66	32	28	18	10	6	3	26	32	
253,721	3.629	79	47	41	28	16	10	6	27	32	
253,640	3.718	58	34	28	19	10	7	4	27	27	
253,559	3.638	71	44	41	31	20	15	10	27	34	
253,478	3.683	61	34	29	20	11	5	4	27	34	
253,400	3.606	103	56	45	29	16	9	7	27	34	
253,319	3.604	73	40	32	22	12	5	4	27	34	
253,238	3.593	101	55	46	31	17	10	6	27	34	início de ponte km 252,103
253,080	3.610	82	45	41	28	16	11	8	27	34	fim de ponte km 252,060
252,920	3.709	19	11	11	9	7	6	5	27	34	km 252 = 1000m
252,840	3.547	91	58	52	36	21	13	8	27	34	
252,760	3.676	55	30	26	17	10	7	5	27	34	
252,678	3.500	79	44	41	29	18	11	6	27	34	
252,599	3.455	51	49	36	32	29	19	12	27	34	
252,519	3.651	40	20	20	16	13	10	9	27	34	
252,440	3.645	35	20	19	14	10	8	5	27	34	
252,359	3.667	27	14	13	10	7	6	4	27	34	
252,280	3.664	15	8	8	8	6	6	4	28	34	
252,200	3.653	24	17	16	15	12	10	7	27	34	
252,118	3.622	69	42	41	29	17	10	6	27	34	
252,039	3.574	76	43	41	27	18	13	9	27	34	
251,945	3.908	88	49	49	38	26	18	10	28	39	km 251 = 945m
251,880	3.944	77	47	32	27	16	11	6	28	39	
251,800	4.023	65	39	35	23	14	9	6	28	39	
251,719	3.908	100	56	51	30	15	10	6	28	39	
251,640	3.973	85	57	54	36	20	10	7	28	39	
251,559	4.023	42	22	19	12	9	7	5	28	39	
251,478	3.994	62	32	26	18	12	8	5	29	39	
251,399	4.009	56	35	33	19	12	8	5	29	39	
251,320	4.074	25	11	8	4	3	2	1	29	39	
251,239	4.030	36	23	17	9	5	3	2	29	39	
251,159	3.994	72	44	38	25	11	5	2	30	39	
251,079	4.038	38	21	19	11	5	3	2	30	39	
250,999	4.009	61	35	32	21	13	9	6	30	39	km 250 = 1017m
250,919	4.016	31	21	19	13	7	4	3	30	39	
250,838	4.016	45	33	31	20	11	7	4	30	39	
250,759	4.088	31	13	9	5	3	2	1	30	39	
250,679	4.059	64	31	23	11	5	2	1	30	39	
250,599	4.074	15	11	11	8	5	4	2	30	39	
250,520	4.074	31	15	13	8	5	3	2	30	39	
250,439	4.081	24	14	11	7	5	3	2	30	39	
250,360	4.074	32	18	16	10	5	2	1	30	39	
250,278	4.045	43	27	23	15	10	6	4	30	39	
250,199	4.052	21	14	14	11	8	6	5	30	39	
250,120	3.994	47	28	24	17	10	7	4	30	39	
250,040	3.994	23	13	12	9	6	5	3	31	39	
249,960	3.987	57	31	28	20	14	10	7	31	39	km 249 = 984m
249,880	3.908	73	41	35	24	13	12	7	31	39	
249,799	4.002	75	38	30	21	15	11	7	31	39	
249,720	4.002	87	43	37	25	17	12	7	31	39	
249,640	4.081	24	16	16	12	8	6	4	31	41	
249,560	4.095	30	19	18	14	10	7	5	31	41	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
249,479	4.102	40	23	19	12	7	5	3	31	41	
249,399	4.102	30	15	14	9	4	3	2	31	41	
249,320	3.958	106	61	56	37	20	12	6	31	41	
249,239	4.117	10	8	7	7	6	5	3	31	41	
249,159	4.016	67	46	44	35	24	16	10	31	41	
249,079	4.088	19	15	13	13	11	9	7	31	41	
249,000	4.095	36	20	18	11	7	5	3	31	41	
248,919	4.088	43	19	13	5	2	1	1	31	41	km 248 = 1020m
248,840	4.066	52	28	23	12	6	4	2	31	41	
248,759	4.088	29	15	12	7	3	1	1	31	41	
248,679	4.066	47	27	23	15	8	4	2	31	41	
248,599	4.110	34	20	19	14	9	6	4	31	41	
248,519	4.038	84	49	43	27	14	8	5	31	41	
248,439	4.088	44	25	21	14	8	5	3	31	41	
248,357	4.052	58	34	29	19	10	6	4	31	41	
248,279	4.045	68	39	34	23	14	9	6	31	41	
248,199	4.009	104	62	56	38	23	14	9	31	41	
248,120	4.074	54	30	25	15	8	5	4	31	41	
248,039	4.052	53	31	29	20	12	7	4	31	41	
247,959	4.088	43	24	22	14	8	5	2	31	41	km 247 = 902 m
247,879	4.088	43	24	22	14	8	5	2	31	41	
247,799	3.915	82	52	48	31	19	12	8	32	41	
247,720	3.922	93	63	62	43	25	15	8	32	41	
247,639	3.843	140	86	65	42	22	16	10	31	41	
247,559	4.023	46	30	29	22	15	11	7	32	41	
247,478	4.016	58	37	37	27	17	11	6	32	41	início ponte km 247,447
247,400	4.088	43	24	22	14	8	5	2	31	41	final ponte km 247,298
247,320	3.915	82	52	48	31	19	12	8	32	41	
247,240	4.081	12	8	7	7	6	5	3	32	43	
247,159	3.886	108	59	58	40	24	16	11	32	43	
247,078	4.030	26	17	18	14	10	7	5	32	43	
247,000	3.915	103	71	68	40	27	18	11	32	43	
246,919	3.692	159	90	86	59	32	20	11	32	43	km 246 = 960 m
246,840	3.800	152	87	86	57	30	17	10	32	43	
246,760	3.829	145	82	81	55	28	17	10	32	43	
246,680	3.915	79	55	52	40	27	18	10	32	43	
246,599	4.038	40	29	26	23	17	12	8	32	43	
246,519	3.966	82	50	48	36	22	13	8	32	43	
246,439	4.009	50	31	31	23	16	12	8	32	43	
246,357	4.045	38	21	20	15	10	7	5	32	43	
246,279	4.045	31	17	16	12	9	7	5	32	43	
246,199	4.038	33	22	21	16	10	7	5	32	43	
246,120	4.045	34	20	20	15	10	7	5	32	43	
246,040	4.052	67	32	26	15	9	5	2	32	43	
245,959	3.944	107	44	31	15	6	3	1	32	43	km 245 = 870 m
245,879	3.879	106	72	47	29	16	11	6	32	43	
245,799	3.980	45	24	23	16	10	6	4	32	43	
245,718	3.879	106	72	47	29	16	11	6	32	43	
245,639	3.980	45	24	23	16	10	6	4	32	43	
245,559	4.002	38	22	21	14	9	5	4	33	43	
245,480	3.987	44	26	25	18	11	7	5	32	43	
245,399	3.951	69	41	41	29	16	9	5	33	43	
245,320	4.016	55	29	25	15	7	4	2	33	43	
245,239	3.987	54	32	31	22	14	9	6	33	43	
245,159	3.742	171	102	85	57	41	26	15	32	43	
245,079	3.958	63	45	41	36	25	18	11	32	43	
244,999	4.052	45	28	28	20	14	9	6	32	43	
244,921	4.045	39	22	21	17	12	9	6	33	43	km 244 = 1000 m
244,839	4.052	32	18	18	14	10	8	5	32	43	
244,759	4.045	33	25	23	19	14	9	6	32	43	
244,679	4.002	64	38	37	29	21	15	10	32	43	
244,600	4.052	53	26	22	13	7	4	2	32	43	
244,520	4.066	42	23	20	14	9	6	4	33	43	
244,439	4.016	65	42	40	31	21	14	9	33	43	
244,357	4.045	34	24	23	19	13	9	6	33	43	
244,280	4.045	46	28	27	19	12	8	5	32	43	
244,199	4.074	44	25	23	15	8	5	4	33	43	
244,120	3.886	89	51	50	37	25	18	12	33	43	
244,040	4.030	8	5	5	4	4	3	3	33	43	
244,120	3.958	65	35	35	25	16	11	8	34	48	km 243 = 1136 m
244,034	4.010	47	27	26	16	9	5	3	34	48	
243,957	3.972	52	29	29	21	14	9	7	34	48	
243,870	3.948	84	40	37	23	14	10	7	34	48	
243,792	4.004	39	16	12	7	5	4	3	34	48	
243,713	3.923	86	42	39	26	16	12	8	34	48	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
243,631	3,955	79	37	32	20	12	8	5	34	48	
243,549	3,925	109	48	36	17	7	4	2	34	48	
243,474	3,896	103	45	33	17	10	7	4	34	48	
243,390	4,115	27	13	13	9	6	5	4	34	48	
243,309	4,053	47	23	21	14	8	5	3	34	48	
243,230	3,950	123	58	48	26	13	8	5	34	48	
243,150	4,017	57	31	29	19	11	5	2	34	48	
243,070	4,014	81	31	19	9	3	1	1	34	48	
242,991	3,977	57	28	25	16	10	7	4	35	48	
242,913	3,958	71	35	31	21	13	9	6	34	48	km 242 = 1000 m
242,832	3,927	90	47	43	27	15	10	6	34	48	
242,754	3,985	60	29	25	17	11	7	4	34	48	
242,681	3,963	56	28	27	19	12	8	5	35	48	
242,594	3,997	49	23	17	9	5	4	3	35	48	
242,511	3,914	74	30	26	17	12	9	6	34	48	
242,433	4,076	16	10	9	8	6	5	3	35	48	
242,352	4,075	17	11	10	8	6	4	3	35	48	
242,274	4,046	20	14	12	11	8	6	4	35	48	
242,191	4,029	35	18	18	12	7	4	2	35	48	
242,113	4,022	26	14	12	6	3	2	2	35	48	
242,033	4,039	17	11	10	8	5	3	1	35	48	
241,951	4,015	47	23	20	12	6	4	3	35	48	km 241 = 1000 m
241,871	4,010	54	24	18	10	5	3	3	35	48	
241,789	3,958	72	36	32	20	11	7	4	35	48	
241,713	3,986	63	29	25	15	9	7	5	35	48	
241,640	4,004	48	25	23	15	9	7	5	34	48	
241,560	4,061	33	16	13	7	4	3	3	34	50	
241,470	4,066	22	10	8	5	3	2	2	35	50	
241,389	4,071	32	13	11	7	5	4	3	35	50	
241,312	4,043	38	21	21	14	9	6	4	35	50	
241,235	4,061	30	16	16	11	8	6	4	34	50	
241,159	4,100	23	12	11	7	4	3	2	34	50	
241,080	4,096	27	13	12	7	4	3	2	34	50	
240,988	4,068	29	15	13	8	4	3	2	34	50	km 240 = 1013 m
240,911	4,083	22	12	10	7	5	4	3	34	50	
240,839	4,094	16	9	8	6	4	3	2	34	50	
240,759	4,075	29	12	10	7	5	3	2	34	50	
240,680	4,069	12	6	6	4	3	2	2	34	50	
240,594	4,056	16	9	9	6	4	3	2	33	50	
240,513	4,035	33	15	13	9	7	5	3	34	50	
240,431	4,036	23	11	8	6	4	4	4	34	50	
240,352	4,051	20	12	12	8	5	4	3	34	50	
240,272	4,061	28	15	14	10	6	4	3	34	50	
240,199	4,046	27	12	11	8	5	3	2	34	50	
240,110	4,062	30	16	15	9	5	4	3	34	50	
240,033	4,078	23	12	11	7	4	3	2	34	50	
239,960	4,049	26	15	14	9	5	3	2	33	50	km 239 = 985 m
239,872	4,054	33	19	17	11	6	3	2	34	50	
239,799	4,066	28	15	14	9	5	3	2	33	50	
239,710	4,051	19	11	11	8	5	4	3	34	50	
239,639	4,019	57	27	22	13	7	5	3	34	50	
239,550	3,986	47	21	16	8	4	3	2	34	50	
239,475	4,000	40	21	19	12	6	3	2	34	50	
239,391	3,977	42	19	16	9	5	3	2	33	50	
239,311	4,004	22	12	11	7	4	3	2	33	50	
239,229	4,006	24	13	12	8	5	4	3	33	50	
239,151	4,021	43	18	16	10	6	3	3	33	50	
239,071	4,039	24	13	12	8	5	3	2	33	50	
239,000	4,031	25	13	12	7	4	3	2	33	50	
238,911	4,006	35	16	14	8	5	3	2	33	50	km 238 = 935 m
238,839	4,043	18	9	8	5	3	2	2	34	50	
238,751	4,007	20	10	10	7	4	2	2	34	50	
238,671	4,019	37	18	15	8	4	3	3	34	50	
238,592	4,043	28	14	13	9	5	3	2	33	50	
238,511	3,965	44	20	15	8	6	3	2	34	50	
238,431	3,986	42	21	14	8	5	3	3	34	50	
238,351	4,006	21	12	11	7	5	4	3	34	50	
238,269	3,955	26	13	11	7	4	3	2	34	50	
238,189	3,945	36	18	14	9	5	3	3	34	50	
238,109	3,999	15	8	8	7	5	3	2	34	50	
238,035	3,927	32	15	12	7	4	3	2	34	50	
237,792	3,974	42	18	15	9	5	4	3	34	50	km 237 = 820 m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
237,710	4.017	18	9	9	6	3	2	1	34	50	
237,634	3.941	71	30	23	12	6	4	2	34	50	
237,559	3.982	45	22	20	11	6	3	3	33	50	
237,470	4.026	17	9	9	6	5	3	2	33	50	
237,400	3.993	30	15	15	10	6	3	2	34	50	
237,311	4.040	33	18	16	9	4	3	2	33	50	
237,228	4.061	19	9	9	7	4	3	2	33	50	
237,149	3.943	32	17	15	9	4	3	2	33	50	
237,069	3.916	57	27	21	14	7	4	3	33	50	
237,232	3.862	69	26	16	8	3	2	2	34	50	km 236 =1270 m
237,159	3.878	45	22	18	11	5	4	3	33	50	
237,079	3.901	74	29	25	15	5	3	2	33	50	
236,993	3.989	46	21	17	9	5	3	3	33	50	
236,910	3.977	62	32	25	12	5	3	3	33	50	
236,830	3.938	59	27	24	14	7	5	3	33	50	
236,760	3.945	68	32	28	16	9	5	3	33	50	
236,677	4.028	32	15	11	7	4	3	3	33	50	
236,593	3.953	53	26	24	19	9	3	2	33	50	
236,509	3.958	62	31	27	22	11	6	5	33	50	
236,436	3.869	80	45	43	37	19	14	5	33	50	
236,351	3.943	80	32	25	18	10	8	5	33	50	
236,279	3.950	79	36	28	16	9	6	5	33	50	
236,189	3.952	72	32	27	17	7	5	4	34	50	
236,116	3.938	63	33	30	18	10	7	4	33	50	
236,036	3.950	60	26	21	12	8	6	5	33	50	
235,960	4.007	29	14	13	8	5	3	2	33	50	km 235 =1000 m
235,873	3.930	68	31	29	19	11	7	5	34	50	
235,793	3.961	50	23	19	12	8	7	5	34	50	
235,711	3.952	45	23	22	15	10	7	5	34	50	
235,630	3.945	51	22	18	11	7	5	4	34	50	
235,552	3.953	53	24	18	9	5	4	3	34	50	
235,471	3.923	38	19	16	9	6	4	3	34	50	
235,390	3.950	44	19	17	10	5	4	3	34	50	
235,311	3.948	67	28	22	12	5	4	3	34	50	
235,235	3.921	70	31	24	12	4	3	3	34	50	
235,152	3.950	60	27	21	10	4	3	3	34	50	
235,075	3.927	60	26	21	12	5	4	3	34	50	
235,000	3.965	34	15	12	7	4	3	2	34	50	
234,918	3.948	35	16	14	8	4	4	3	34	50	km 234 =1000 m
234,832	3.958	56	30	24	14	6	4	3	34	50	
234,749	3.935	50	21	17	12	6	4	3	34	50	
234,671	3.989	33	17	14	9	4	3	2	34	50	
234,594	3.923	74	35	32	26	11	8	4	34	50	
234,508	3.995	23	12	10	7	4	3	2	34	50	
234,437	3.999	31	14	12	7	4	3	2	34	50	
234,340	3.941	28	10	8	3	2	2	1	34	50	
234,271	3.955	20	8	7	5	3	2	2	34	50	
234,188	3.981	27	12	10	7	4	3	2	34	50	
234,113	3.989	23	10	9	6	4	3	2	34	50	
234,040	3.953	29	14	12	8	4	3	2	34	50	
233,960	3.911	45	17	14	8	4	3	2	34	50	km 233 =1034 m
233,871	3.975	36	18	15	10	4	1	1	34	50	
233,791	3.997	36	19	17	12	6	4	3	34	50	
233,715	4.021	25	12	11	11	4	3	2	34	50	
233,628	3.974	54	23	20	11	6	4	3	34	50	
233,549	3.995	62	28	24	13	7	4	3	34	50	
233,477	4.035	35	15	13	8	5	3	1	34	49	
233,397	3.985	36	17	14	11	5	3	2	34	49	
233,316	4.026	25	14	13	11	6	4	3	34	49	
233,229	4.007	24	13	12	10	6	4	3	34	49	
233,152	3.989	31	15	15	11	7	5	3	34	49	
233,071	3.993	23	12	11	11	3	3	2	34	49	
232,999	3.974	17	8	8	5	4	3	2	33	49	
232,907	3.988	15	8	7	3	4	3	2	34	49	km 232 =1000 m
232,829	4.006	14	6	6	6	4	3	2	34	49	
232,748	4.000	32	15	13	10	5	3	2	34	49	
232,670	3.950	25	13	13	11	5	4	3	34	49	
232,600	4.006	29	15	14	9	6	4	3	34	49	
232,509	4.000	21	12	11	8	5	3	2	34	49	
232,433	3.916	75	15	7	2	2	1	1	34	49	
232,358	3.985	39	18	17	12	8	5	4	33	49	
232,273	3.932	46	21	20	19	8	6	4	34	49	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
232,195	3,916	80	36	33	22	15	11	7	33	49	
232,111	3,963	32	24	18	15	11	9	6	34	49	
232,034	3,972	26	18	16	13	10	8	5	33	49	
232,192	3,960	37	20	20	16	10	7	5	33	49	km 231 =1225 m
232,111	3,986	25	11	9	6	4	3	2	33	49	
232,033	4,002	30	16	15	10	6	4	2	33	49	
231,956	3,946	38	15	11	8	4	3	2	33	49	
231,877	3,974	20	17	12	9	6	4	3	33	49	
231,799	3,975	24	15	14	9	5	3	2	33	49	
231,709	3,985	28	15	14	8	5	3	2	32	49	
231,629	4,033	22	13	12	9	5	3	2	32	49	
231,560	4,017	29	16	15	8	5	3	2	32	49	
231,471	4,035	31	17	15	9	5	3	2	32	49	
231,391	3,965	51	21	18	14	5	4	2	32	49	
231,319	4,024	22	11	11	8	4	3	2	32	49	
231,229	4,054	24	13	13	8	5	4	3	32	49	
231,147	4,051	41	22	20	11	6	4	3	32	49	
231,076	4,004	52	25	19	10	5	4	2	32	49	
230,999	4,024	19	10	10	7	4	3	2	32	49	
230,756	4,026	16	9	9	6	4	3	2	33	49	km 230 =814 m
230,679	4,010	25	12	12	7	5	4	3	32	49	
230,586	4,033	23	13	12	8	6	4	3	33	49	
230,518	3,999	27	15	14	9	5	4	3	33	49	
230,428	3,974	47	19	16	10	7	4	3	33	49	
230,359	4,015	18	9	9	6	4	3	2	33	49	
230,267	4,002	20	10	10	7	5	4	3	33	49	
230,194	3,986	27	10	8	6	4	3	2	33	49	
230,120	3,953	70	32	26	15	8	5	3	33	49	
230,034	4,010	27	13	13	10	7	6	4	33	49	
229,953	4,014	36	18	18	12	9	7	5	33	49	km 229 =990 m
229,871	4,040	32	16	16	11	8	6	4	33	49	
229,789	4,033	29	15	14	9	7	5	4	33	49	
229,713	4,033	26	14	14	8	5	3	2	33	49	
229,639	4,035	25	12	11	6	4	3	2	33	49	
229,551	4,053	20	10	10	6	4	3	2	33	49	
229,469	4,064	30	15	15	10	6	4	3	33	49	
229,389	4,064	24	13	12	8	6	5	3	33	49	
229,313	4,042	27	13	12	8	5	4	2	33	49	
229,237	4,039	25	13	13	9	6	4	2	34	49	
229,153	4,031	23	11	10	6	4	3	2	33	49	
229,079	4,031	17	9	10	7	5	3	2	33	49	
228,988	4,056	35	18	18	12	7	5	3	33	49	km 228 =1000 m
228,911	4,066	17	9	9	6	5	4	2	33	49	
228,830	4,051	33	18	17	11	8	5	3	33	49	
228,752	4,076	19	10	10	7	5	4	2	33	49	
228,670	4,054	19	10	10	6	5	3	2	33	49	
228,597	4,039	35	18	16	10	6	4	3	33	49	
228,512	4,076	31	14	12	8	4	3	2	33	49	
228,439	4,051	26	13	12	7	4	3	2	33	49	
228,348	4,061	22	12	12	7	5	3	2	33	49	
228,270	4,062	20	12	11	7	5	3	2	33	49	
228,190	4,073	18	10	10	6	4	3	2	33	49	
228,115	4,051	25	13	13	8	5	3	2	33	49	
228,040	4,058	22	12	11	7	5	3	2	33	49	
227,959	4,043	34	15	12	6	4	3	2	33	49	km 227 =1000 m
227,870	4,029	47	21	17	10	5	3	2	33	49	
227,793	4,043	30	14	11	8	5	3	2	33	49	
227,713	4,035	36	18	16	10	6	4	3	33	49	
227,630	4,010	30	14	12	9	5	4	3	33	49	
227,559	4,026	23	12	12	8	5	4	3	32	49	
227,471	4,021	50	23	19	11	6	3	2	33	49	
227,391	4,040	41	21	17	10	5	4	2	32	49	
227,320	4,042	33	16	15	9	6	4	3	32	49	
227,236	4,042	33	15	13	8	5	4	3	32	49	
227,150	4,006	51	21	17	10	6	4	3	32	49	
227,077	4,042	40	18	15	9	5	4	3	32	49	
226,990	4,051	31	15	14	8	6	4	3	32	49	
226,913	4,043	30	17	15	9	6	5	3	32	49	km 226 =1000 m
226,829	4,039	42	20	17	9	5	4	3	32	49	
226,747	4,068	34	17	16	10	6	4	3	32	49	
226,672	4,054	22	10	9	5	4	3	2	32	49	
226,591	4,031	31	15	13	8	5	4	3	32	49	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0				DATA: fev/2007					
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
226,519	4.017	45	23	20	13	9	6	4	32	49	
226,431	4.042	42	22	20	13	10	6	4	31	49	
226,348	4.036	32	20	19	14	10	7	4	32	49	
226,271	4.015	65	32	26	14	8	5	3	32	49	
226,189	4.031	39	19	17	11	8	5	3	32	49	
226,108	4.017	85	37	29	15	10	6	4	31	49	
226,038	4.015	73	37	33	19	10	6	4	31	49	
225,960	4.052	79	40	32	16	8	6	4	36	50	km 225 = 1000 m
225,879	4.066	73	38	33	20	11	7	4	36	50	
225,800	4.066	74	38	33	20	10	6	4	36	50	
225,720	4.110	40	22	20	12	7	4	3	35	50	
225,639	4.102	46	26	23	14	7	5	4	35	50	
225,558	4.081	69	36	31	17	9	5	4	36	50	
225,479	4.074	68	34	30	17	9	6	4	35	50	
225,400	4.081	63	34	30	17	9	6	4	35	50	
225,321	4.081	30	18	18	12	8	6	4	35	50	
225,241	4.102	24	14	13	8	5	4	3	35	50	
225,159	4.066	26	14	12	7	4	3	2	35	50	
225,079	4.095	23	13	13	8	6	4	3	35	50	
224,999	4.052	55	29	26	15	9	6	3	35	50	
225,000	4.045	65	30	22	12	7	4	3	35	50	
224,920	4.023	27	13	11	6	5	4	3	35	50	km 224 = 1080 m
224,840	3.966	39	15	10	5	3	3	2	35	50	início trevo Pirapatos km 224,960
224,759	4.023	34	14	10	6	4	2	2	35	50	
224,680	4.052	38	16	12	7	4	3	2	35	50	
224,600	3.973	66	33	29	19	10	6	4	35	50	fim trevo Pirapatos km 224,600
224,519	4.074	37	22	22	14	10	6	4	35	50	
224,439	4.074	22	13	13	8	6	4	3	35	50	
224,360	4.045	18	11	10	7	4	3	2	36	50	
224,280	4.045	54	28	25	15	9	5	3	35	50	
224,200	4.045	36	19	16	9	5	3	2	35	50	
224,118	4.016	67	28	23	14	7	4	2	35	50	
224,041	4.088	20	11	10	7	4	3	2	35	50	
223,961	4.066	20	11	10	7	4	3	2	36	50	km 223 = 1000 m
223,881	4.074	17	10	10	6	4	3	2	36	50	
223,800	4.066	18	10	9	7	4	3	2	36	50	
223,719	4.059	23	12	11	7	5	3	2	35	50	
223,638	4.081	17	10	10	8	5	4	3	35	50	
223,560	4.038	28	15	13	8	5	3	3	36	50	
223,479	4.059	26	15	13	8	6	4	3	35	50	
223,400	4.038	32	17	16	10	6	4	3	35	50	
223,320	4.081	20	12	12	9	6	4	3	35	50	
223,240	4.030	27	15	14	8	5	3	2	35	50	
223,160	4.059	23	15	15	11	8	6	4	35	50	
223,079	4.052	25	15	15	9	7	5	4	35	50	
223,000	4.030	38	21	20	13	7	5	4	35	50	
222,919	4.059	31	17	16	11	6	4	3	35	50	km 222 = 1000 m
222,839	4.074	26	15	15	10	6	4	3	36	50	
222,758	4.002	61	29	23	12	7	5	4	35	50	
222,680	4.045	24	15	15	11	7	4	3	36	50	
222,599	4.052	23	14	14	9	6	4	3	35	50	
222,519	4.038	37	20	18	11	7	5	3	36	50	
222,438	4.045	47	26	23	14	8	5	4	35	50	
222,360	4.059	37	20	19	12	8	5	3	35	50	
222,279	4.016	50	25	23	13	7	4	3	36	50	
222,198	4.066	24	13	13	8	5	4	3	36	50	
222,120	4.066	26	15	14	10	6	4	3	36	50	
222,040	4.052	32	18	16	11	6	4	3	36	50	
221,960	4.059	25	13	12	8	4	3	2	36	50	km 221 = 1000 m
221,879	4.059	22	12	12	8	4	2	2	36	50	
221,800	4.074	15	8	8	5	3	2	1	36	50	
221,720	4.045	24	12	10	4	2	2	1	35	50	
221,639	4.059	35	19	18	9	5	3	2	35	50	
221,560	4.066	24	15	14	8	5	3	2	35	50	
221,480	4.074	18	10	9	6	4	3	2	35	50	
221,400	4.081	24	12	12	7	6	4	3	35	50	
221,320	4.052	57	27	22	11	5	2	1	35	50	
221,239	4.052	19	9	7	4	3	2	1	35	50	
221,158	4.045	33	19	18	12	7	5	3	35	50	
221,080	4.045	35	16	13	8	5	3	2	35	50	
220,999	4.030	27	13	12	7	4	3	2	35	50	
220,920	4.045	32	15	12	7	4	2	2	35	50	km 220 = 1000 m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
220,841	4.052	18	8	8	5	3	2	1	35	50	
220,759	4.023	30	12	9	5	2	2	1	35	52	
220,680	4.059	53	24	19	9	4	3	2	35	52	
220,599	4.066	23	12	11	7	3	2	1	35	52	
220,520	4.045	27	12	10	6	3	2	1	35	52	
220,440	4.052	49	22	17	8	4	2	2	36	52	
220,359	4.059	34	17	15	8	4	3	2	35	52	
220,280	4.052	21	9	9	5	4	3	2	35	52	
220,200	4.045	36	16	13	7	4	3	2	36	52	
220,120	4.023	59	28	24	12	6	3	2	35	52	
220,038	4.030	20	10	10	7	4	3	2	36	52	
219,960	4.002	65	32	24	9	3	2	1	36	52	km 219 = 1000 m
219,879	4.023	37	21	16	10	5	3	3	35	52	
219,800	3.994	58	26	21	12	7	5	3	36	52	
219,718	4.038	37	16	11	6	3	2	2	36	52	
219,640	4.002	45	20	17	10	5	4	3	36	52	
219,559	4.009	32	13	11	7	5	4	3	36	52	
219,478	3.980	36	17	16	10	6	4	2	36	52	
219,399	3.994	46	19	14	6	3	3	2	36	52	
219,320	4.030	10	6	6	4	3	3	2	36	52	
219,240	4.030	38	17	14	8	4	3	2	36	52	
219,160	4.002	27	11	8	5	3	2	2	36	52	
219,081	4.030	23	10	9	6	4	3	2	37	52	
219,000	3.980	65	28	21	9	3	3	2	37	52	
218,920	4.038	21	10	9	5	3	2	2	37	52	km 218 = 1000 m
218,838	4.016	26	14	12	8	5	3	2	37	52	
218,759	4.045	17	9	9	5	3	2	2	36	52	
218,678	4.016	23	13	12	7	4	2	2	36	52	
218,600	4.009	31	15	13	8	4	3	2	37	52	
218,519	3.966	46	20	18	11	6	4	2	36	52	
218,438	3.994	21	12	10	7	4	3	2	37	52	
218,360	4.023	22	12	11	7	4	3	2	37	52	
218,281	3.966	66	28	24	13	6	3	2	37	52	
218,200	4.016	25	12	12	8	5	3	2	37	52	
218,119	4.002	34	17	16	11	5	3	2	36	52	
218,039	3.973	24	13	12	8	4	3	2	36	52	
217,960	4.009	27	13	11	7	4	3	2	37	52	km 217 = 1000 m
217,879	4.009	26	13	11	7	4	3	2	37	52	
217,799	4.030	21	12	11	7	4	3	2	37	52	
217,720	4.016	18	9	8	5	3	2	1	37	52	
217,640	3.994	43	21	13	7	2	1	2	37	52	
217,560	3.987	55	24	18	9	4	2	2	37	52	
217,479	3.987	63	30	25	11	4	2	2	37	52	
217,398	4.009	30	14	11	6	3	2	2	37	52	
217,320	4.045	16	8	7	4	3	2	2	37	52	
217,240	4.023	22	10	9	5	3	2	2	37	52	
217,160	4.038	29	15	13	8	4	3	2	37	52	
217,081	4.038	16	8	7	5	3	2	1	36	52	
217,000	4.030	31	16	15	9	5	3	2	36	52	
216,919	4.009	56	26	21	11	5	3	2	36	52	km 216 = 943 m
216,838	4.045	11	5	5	4	3	2	2	36	52	
216,760	4.030	16	7	6	4	3	2	1	36	52	
216,680	4.002	18	9	8	6	3	2	2	36	52	
216,599	3.980	47	18	15	9	5	3	3	36	52	
216,519	4.023	17	9	8	4	2	1	1	37	52	
216,440	4.016	15	9	9	6	4	3	2	37	52	
216,358	4.023	33	18	15	8	4	3	2	37	52	
216,280	4.030	25	11	10	6	3	2	2	36	55	
216,200	4.016	24	12	11	7	5	4	2	36	55	
216,119	4.002	17	9	9	7	4	3	2	37	55	
216,040	3.994	40	19	17	10	5	4	3	37	55	
215,960	4.009	25	13	13	9	5	4	3	37	55	km 215 = 1000 m
215,879	4.002	22	11	11	7	4	3	2	37	55	
215,800	4.009	18	9	9	6	4	3	2	37	55	
215,718	4.016	13	6	5	3	2	2	1	38	55	
215,640	4.023	18	9	9	6	4	3	2	37	55	
215,579	4.023	12	7	6	4	2	1	1	38	55	
215,480	4.045	13	7	6	4	3	2	1	38	55	
215,400	4.009	56	26	21	11	5	2	2	38	55	
215,319	4.016	44	26	19	11	5	3	2	38	55	
215,240	4.009	24	12	12	7	4	3	3	38	55	
215,160	3.937	49	22	17	8	4	4	2	38	55	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
215,079	3,944	43	15	11	4	2	2	2	38	55	
215,000	3,994	55	25	20	12	6	4	2	38	55	km 214 = 1008 m
214,920	4,074	42	20	16	9	4	3	2	28	42	
214,840	4,081	39	23	20	13	7	5	4	27	42	
214,760	4,081	36	21	18	12	8	6	4	27	42	
214,679	4,059	62	33	28	19	11	7	5	28	42	
214,600	4,023	77	40	33	21	13	9	6	28	42	
214,519	4,045	115	59	48	27	12	9	6	28	42	
214,439	4,052	81	43	35	21	10	6	4	28	42	
214,360	4,009	111	64	53	31	16	11	8	28	42	
214,281	4,016	80	40	30	17	10	6	6	28	42	
214,200	4,045	59	34	32	23	15	10	6	28	42	
214,040	4,023	30	19	18	14	9	5	3	28	42	
213,962	4,074	59	35	34	23	14	10	6	28	42	km 213 = 990 m
213,882	3,958	109	65	60	40	24	17	11	29	42	
213,801	4,045	60	35	31	20	11	7	5	28	42	
213,722	4,110	31	18	17	10	5	3	3	28	42	
213,641	4,095	44	26	23	14	6	3	2	29	42	
213,561	4,030	42	26	25	18	13	10	7	29	42	
213,480	4,016	34	26	25	21	14	10	6	29	42	
213,400	4,030	66	33	27	17	9	6	4	29	42	
213,320	4,074	19	11	10	7	5	4	3	29	42	
213,240	4,074	23	13	12	8	5	3	2	29	42	
213,159	4,074	22	11	10	7	4	4	3	29	42	
213,080	4,081	21	13	12	9	5	3	2	30	42	
213,000	4,059	26	15	14	10	6	5	4	30	42	
212,920	4,066	26	16	15	10	6	5	3	30	42	km 212 = 1000 m
212,840	4,095	15	10	9	8	5	4	3	30	42	
212,760	4,074	16	9	8	5	4	3	2	29	42	
212,679	4,074	21	10	9	6	4	3	3	30	42	
212,599	4,088	13	8	8	5	3	2	1	30	42	
212,519	4,081	9	5	5	3	2	2	2	30	42	
212,440	4,038	15	9	8	4	2	1	1	30	42	
212,360	4,074	13	8	7	5	3	2	1	30	42	
212,279	4,088	12	8	7	5	3	2	1	30	42	
212,198	4,095	28	16	13	8	5	3	3	30	42	
212,120	4,081	15	9	8	6	4	2	2	30	42	
212,040	4,081	32	17	13	6	2	2	2	30	42	
211,960	4,095	13	8	8	6	4	2	2	30	42	km 211 = 1000 m
211,880	4,081	20	12	11	7	4	3	2	30	42	
211,799	4,074	20	12	12	8	5	3	2	30	42	
211,719	4,081	20	13	12	8	5	3	2	30	42	
211,639	4,074	19	12	11	8	5	3	2	30	42	
211,557	4,088	17	10	10	7	4	3	2	30	42	
211,480	4,110	14	9	9	6	4	3	2	30	42	
211,401	4,102	21	12	11	8	5	4	3	30	42	
211,321	4,059	26	16	14	9	5	3	3	30	42	
211,240	4,095	18	9	8	5	3	2	2	30	42	
211,159	4,059	15	8	8	6	3	2	2	30	42	
211,079	4,052	16	10	9	6	3	2	2	30	42	
211,001	4,074	16	10	10	7	5	4	3	30	42	
210,921	4,081	19	12	11	8	5	3	2	30	42	km 210 = 1000 m
210,841	4,059	21	13	12	8	5	3	2	30	42	
210,760	4,052	19	10	10	7	4	3	2	30	42	
210,679	4,066	44	23	18	10	6	4	3	30	42	
210,600	4,074	17	9	8	6	4	3	3	31	42	
210,520	4,045	39	19	15	9	5	3	2	31	42	
210,441	4,045	31	17	13	6	3	2	2	31	42	
210,359	4,038	32	14	11	6	3	2	2	30	42	
210,280	4,088	22	13	12	8	5	3	2	31	42	
210,199	4,023	38	16	12	7	5	3	2	31	42	
210,118	4,088	25	12	11	6	3	3	2	31	42	
210,040	4,059	19	11	11	7	4	3	2	31	42	
209,960	4,038	18	10	10	7	4	3	2	31	42	km 209 = 975 m
209,879	4,059	18	11	11	8	5	3	2	31	42	
209,799	4,038	31	15	12	7	3	2	2	31	42	
209,738	4,088	18	11	10	7	4	2	1	31	42	
209,640	4,081	22	13	11	6	2	2	2	31	42	
209,559	4,074	29	15	13	8	5	3	2	31	42	
209,479	4,052	24	13	12	8	4	3	2	31	42	
209,400	4,074	19	10	7	4	3	2	2	31	42	
209,318	4,059	17	8	7	4	3	2	1	31	42	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
209,239	4.059	16	9	8	5	3	3	2	31	42	
209,160	4.059	20	11	10	7	4	3	2	31	42	
209,079	4.059	17	11	10	7	4	3	2	31	42	
209,000	4.045	23	11	9	5	3	2	2	32	42	
208,920	4.023	16	9	8	6	4	3	2	31	42	km 208 = 1025 m
208,839	4.016	26	13	11	6	4	3	2	32	42	
208,759	4.045	18	10	9	5	3	2	2	31	45	
208,679	4.030	19	11	10	7	4	3	2	31	45	
208,598	4.045	31	17	15	9	5	3	2	31	45	
208,520	3.951	72	29	20	9	4	3	2	32	45	
208,440	4.045	15	8	8	6	4	3	2	32	45	
208,360	3.958	103	43	23	6	2	2	2	32	45	
208,280	4.038	25	15	13	9	5	4	2	32	45	
208,199	4.016	36	18	14	7	4	3	2	32	45	
208,119	4.023	50	22	17	7	2	1	1	31	45	
208,039	4.038	36	14	11	5	3	2	1	32	45	
207,958	4.023	23	11	9	5	3	2	1	32	45	km 207 = 1000 m
207,879	4.038	21	11	10	6	3	2	1	32	45	
207,798	4.066	18	10	9	6	3	3	2	32	45	
207,720	4.009	31	17	15	10	5	3	1	32	45	
207,641	4.009	37	19	16	9	5	3	2	32	45	
207,560	4.023	34	18	15	8	3	3	2	32	45	
207,480	4.074	24	13	12	7	3	2	1	32	45	
207,399	4.074	16	9	8	6	4	3	2	32	45	
207,318	4.074	21	12	12	8	5	4	2	32	47	
207,239	4.074	25	15	14	10	6	3	2	32	47	
207,160	4.066	17	10	9	7	4	2	2	33	47	
207,078	4.074	21	12	11	7	4	3	2	32	47	
207,000	4.074	16	9	10	8	5	4	2	33	47	
206,919	4.074	24	15	15	11	7	4	3	33	47	km 206 = 1000 m
206,840	4.074	20	13	12	8	5	3	2	33	47	
206,760	4.088	23	13	11	7	4	3	2	33	47	
206,679	4.059	26	15	14	8	4	3	2	33	47	
206,600	4.038	23	14	13	9	5	3	2	33	47	
206,521	4.066	34	20	18	12	7	4	3	33	47	
206,441	4.059	19	10	9	6	4	3	2	33	47	
206,360	4.038	24	15	15	12	7	5	4	33	47	
206,279	3.980	60	32	29	18	9	6	4	32	47	
206,199	4.030	20	12	11	8	5	3	2	33	47	
206,120	4.016	23	13	13	10	6	4	2	33	47	
206,040	3.944	36	20	20	14	8	5	3	33	47	
205,880	3.951	27	16	13	8	4	3	2	34	47	km 205 = 920 m
205,800	4.052	16	10	11	8	5	4	3	33	47	
205,721	4.023	21	13	13	10	7	5	3	33	47	
205,680	4.045	20	13	13	10	7	5	3	33	47	
205,600	4.052	23	14	12	8	4	3	2	33	47	
205,521	4.023	27	16	13	7	4	3	2	34	47	
205,480	4.045	18	11	10	7	4	3	2	34	47	
205,400	4.045	28	15	13	7	4	2	2	34	47	
205,321	4.045	29	16	15	9	5	3	2	34	47	
205,241	4.045	30	17	16	11	6	3	2	34	47	
205,160	4.052	14	9	9	7	4	3	2	33	47	
205,080	4.088	16	9	8	6	4	3	2	34	47	
205,000	4.052	15	8	7	5	4	2	2	34	47	
204,920	4.059	12	7	7	5	4	3	2	34	47	km 204 = 1072 m
204,838	4.052	25	11	9	6	3	2	2	34	47	
204,760	4.038	18	9	9	6	4	3	2	35	47	
204,682	4.023	17	11	10	8	5	4	2	34	47	
204,600	4.030	25	12	10	7	5	3	3	35	47	
204,520	4.066	9	5	5	5	4	3	2	35	47	
204,440	4.052	12	7	6	5	4	3	3	35	47	
204,360	4.052	23	13	13	10	6	5	3	35	47	
204,280	4.052	31	15	10	5	3	3	2	35	47	
204,200	4.023	26	14	12	8	6	4	3	35	47	
204,122	4.023	32	20	19	12	6	3	2	35	47	
204,042	4.052	25	15	15	10	6	4	2	35	47	
204,120	4.045	18	12	11	9	6	5	3	35	47	km 203 = 1138 m
203,960	4.016	11	7	6	6	5	4	3	35	47	
203,880	3.987	37	20	19	13	7	3	2	36	47	fim de ponte km 203+1075
203,800	3.980	20	13	13	9	6	4	3	35	47	
203,720	3.994	15	7	7	5	3	2	2	35	47	
203,640	3.980	21	10	9	7	4	3	2	35	47	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
203,560	3,987	16	8	7	5	3	3	2	35	47	
203,480	3,966	36	16	13	8	5	3	2	35	47	
203,400	3,980	28	14	13	8	5	3	2	35	47	
203,321	3,994	21	13	13	9	5	3	2	36	47	
203,240	3,987	30	16	13	7	4	2	2	36	47	
203,160	4,016	18	10	10	7	4	2	2	36	47	
203,080	4,002	50	22	19	11	5	3	2	36	47	
203,000	4,038	16	9	9	6	4	2	1	36	47	
202,920	4,030	19	11	10	6	3	3	2	36	47	km 202 = 1000 m
202,838	4,023	25	14	12	7	4	2	2	36	47	
202,760	4,052	18	9	8	5	3	2	1	36	47	
202,677	3,973	28	13	9	5	4	3	2	36	47	
202,600	4,038	21	10	9	6	3	3	1	36	47	
202,520	3,966	61	30	26	14	6	3	2	35	47	
202,440	4,038	24	10	8	5	4	3	2	35	47	
202,359	4,030	26	13	11	8	4	3	2	36	47	
202,279	4,038	24	13	12	7	3	2	2	35	47	
202,200	4,038	19	11	11	7	4	3	2	35	47	
202,120	4,045	14	8	8	6	4	3	2	35	47	
202,040	4,016	12	7	8	5	3	2	2	35	47	
201,960	4,196	12	7	7	5	3	2	2	26	42	km 201 = 1000 m
201,880	4,160	14	9	8	6	4	3	2	26	42	
201,800	4,153	18	11	10	7	4	3	2	26	42	
201,720	4,153	19	12	11	8	5	3	2	26	42	
201,639	4,139	15	10	9	6	4	3	2	26	42	
201,560	4,153	22	14	13	9	5	3	2	26	42	
201,480	4,146	32	14	11	6	3	2	2	26	42	
201,399	4,160	18	11	10	6	4	2	2	26	42	
201,319	4,146	11	6	6	5	4	3	2	26	42	
201,239	4,167	15	11	10	8	5	3	2	26	42	
201,158	4,095	19	14	14	10	8	5	4	26	42	
201,079	4,117	28	13	11	9	5	3	2	26	42	
200,999	4,117	15	10	10	8	5	4	2	26	42	
200,919	4,146	14	9	8	6	3	2	2	26	42	km 200 = 1000 m
200,839	4,131	24	14	13	10	6	4	3	26	42	
200,758	4,088	28	18	17	13	7	4	2	26	42	
200,679	4,074	45	20	16	9	4	3	2	26	42	
200,599	4,117	20	12	10	7	4	3	2	26	42	
200,519	4,110	11	8	8	6	4	3	2	27	42	
200,439	4,102	16	11	10	8	6	4	2	26	42	
200,359	4,124	11	7	7	5	4	3	2	27	42	
200,279	4,074	39	21	18	10	5	3	2	27	42	
200,199	4,081	18	11	10	6	3	1	0	27	42	
200,119	4,095	19	12	11	8	5	3	2	27	42	
200,039	4,074	26	13	12	9	8	2	2	27	42	
199,957	4,117	40	24	20	11	5	3	2	26	42	km 199 = 1000 m
199,879	4,095	58	29	22	10	4	2	2	27	42	
199,799	4,038	19	11	9	6	3	2	2	27	42	
199,718	4,110	24	15	13	8	4	3	2	27	42	
199,639	4,088	33	15	11	7	5	3	2	27	42	
199,560	4,074	24	14	14	9	5	2	2	27	42	
199,479	4,131	15	9	8	5	4	3	2	27	42	
199,399	4,102	47	21	17	9	5	3	3	27	42	
199,319	4,131	20	12	10	7	4	3	2	27	42	
199,240	4,124	26	15	11	7	4	3	2	27	42	
199,160	4,095	20	12	11	7	4	3	2	27	42	
199,079	4,095	25	14	13	8	5	3	2	27	42	
198,999	4,045	22	13	11	7	4	3	2	27	42	
198,919	4,088	21	11	9	6	4	3	2	27	42	km 198 = 1000 m
198,839	4,124	22	11	10	6	3	2	1	27	42	
198,759	4,139	7	4	4	3	2	2	1	27	42	
198,677	4,131	8	5	5	4	3	2	2	27	42	
198,599	4,110	8	5	5	4	3	3	2	28	42	
198,520	4,117	15	9	8	7	4	2	2	27	42	
198,439	4,102	10	7	7	5	4	3	2	28	42	
198,360	4,095	6	5	5	4	3	2	2	28	42	
198,279	4,081	12	8	8	6	4	3	2	28	42	
198,199	4,081	16	9	8	5	4	3	2	28	42	
198,120	4,110	21	14	13	10	7	5	4	28	42	
198,039	4,074	25	16	14	10	7	5	3	28	42	
197,960	4,045	33	20	19	14	9	7	4	28	42	km 197 = 995 m
197,880	4,074	32	21	20	14	9	6	4	28	42	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
197,800	4,088	15	11	10	8	5	4	3	29	42	
197,720	4,074	25	16	16	12	8	6	5	29	42	
197,640	4,095	22	14	14	11	8	6	4	29	42	
197,560	4,110	22	14	13	9	7	5	4	29	42	
197,480	4,110	17	11	11	7	6	5	4	29	42	
197,400	4,117	14	9	10	8	6	5	4	29	42	
197,320	4,074	22	14	13	10	7	5	4	29	42	
197,240	4,081	21	13	12	8	7	6	4	29	42	
197,159	4,102	16	11	11	7	7	5	3	29	42	
197,080	4,117	11	8	8	6	5	3	2	29	42	
196,999	4,102	32	21	19	13	8	6	4	30	42	
196,920	4,110	18	12	12	9	7	6	4	30	42	km 196 = 960 m
196,840	4,117	27	16	15	11	7	5	4	29	42	
196,680	4,023	77	38	32	16	6	3	3	29	42	
196,599	4,066	15	9	8	6	4	2	1	30	42	
196,520	4,059	21	14	13	10	8	6	4	30	42	
196,440	4,030	46	30	30	22	16	12	9	30	42	
196,360	4,066	33	16	13	8	6	5	3	30	42	
196,280	4,088	11	7	6	5	3	2	2	30	42	
196,199	4,074	25	15	12	8	5	4	3	30	42	
196,120	4,074	20	12	10	7	4	4	3	30	42	
196,040	4,074	20	11	10	7	5	4	2	31	42	
195,958	4,052	30	16	12	6	4	4	3	30	42	km 195 = 1000 m
195,879	4,052	53	25	16	8	4	4	3	31	42	
195,799	4,030	29	15	12	8	4	3	3	30	42	
195,719	4,074	20	13	13	9	7	7	5	30	42	
195,640	4,081	29	20	19	16	11	8	5	30	42	
195,559	4,030	71	41	36	22	12	8	5	30	42	
195,479	4,095	30	20	20	15	10	7	4	30	42	
195,399	4,088	28	18	17	13	8	6	4	29	42	
195,319	4,074	24	14	13	8	6	4	3	29	42	
195,239	4,088	23	15	14	11	8	5	4	29	42	
195,159	4,045	14	10	10	10	7	6	4	30	42	
195,079	4,095	23	12	10	7	3	2	1	30	42	
195,000	4,110	18	15	13	11	8	6	4	29	42	km 194 = 1009 m
194,839	4,059	43	26	22	15	8	4	3	30	42	
194,759	4,045	31	17	15	10	6	5	3	30	42	
194,678	4,045	24	16	16	11	8	5	3	30	43	
194,599	4,088	18	10	9	6	5	4	3	29	43	
194,520	4,088	16	9	8	6	5	4	3	29	43	
194,441	4,088	15	11	11	8	7	5	4	30	43	
194,359	4,081	43	24	19	10	3	1	1	30	43	
194,279	4,102	11	7	7	5	3	3	1	30	43	
194,199	4,081	18	11	11	8	6	5	3	30	43	
194,120	4,088	30	16	13	8	4	3	2	30	43	
194,040	4,016	55	35	29	18	11	7	5	30	43	
193,959	4,045	43	24	22	16	11	9	6	29	43	
193,800	4,081	28	19	19	14	9	6	4	29	43	km 193 = 920 m
193,721	4,038	24	14	14	10	7	6	4	29	43	início de ponte km 193,916
193,640	4,038	16	10	10	8	6	5	4	30	43	fim de ponte km 193,825
193,560	4,052	11	7	8	7	5	3	3	29	43	
193,480	4,081	11	9	8	8	6	5	4	30	43	
193,400	4,074	19	14	13	12	10	8	6	30	43	
193,321	4,074	12	9	8	7	6	5	4	29	43	
193,241	4,059	17	9	8	6	4	4	3	30	43	
193,160	4,052	15	8	7	5	4	3	2	30	43	
193,080	4,066	12	6	6	5	4	3	2	30	43	
193,000	4,038	15	8	8	7	4	3	2	30	43	
192,920	4,088	15	8	8	7	6	4	3	30	43	km 192 = 1000 m
192,839	4,052	23	12	9	6	5	3	3	30	43	
192,759	4,045	28	13	11	7	5	4	3	30	43	
192,679	4,045	16	7	6	3	2	2	1	30	43	
192,599	4,081	10	6	6	4	3	2	2	30	43	
192,519	4,066	17	10	10	7	5	3	2	30	43	
192,442	4,066	17	11	11	9	7	5	4	30	43	
192,359	4,052	21	13	12	9	6	5	3	30	43	
192,279	4,052	13	8	8	6	5	4	2	30	43	
192,199	4,074	14	9	8	6	5	4	3	30	43	
192,120	4,052	11	7	7	4	3	2	1	30	43	
192,039	3,987	45	18	13	6	3	3	3	30	43	
191,959	4,045	36	14	10	6	4	3	2	30	43	km 191 = 1000 m
191,880	4,052	23	11	8	6	4	3	2	30	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
191,799	4,045	40	16	12	7	4	3	2	30	44	
191,721	4,023	31	9	7	4	3	2	2	30	44	
191,639	4,059	16	8	6	4	3	2	2	30	44	
191,560	4,059	11	6	6	2	2	2	1	30	44	
191,480	4,052	43	22	19	11	6	3	3	30	44	
191,399	3,994	33	15	12	7	5	3	2	31	44	
191,320	4,066	14	8	8	5	3	2	2	30	44	
191,240	4,002	48	23	17	7	3	3	2	31	44	
191,159	4,066	9	6	5	4	3	3	2	30	44	
191,079	4,045	21	12	11	7	4	3	2	31	44	
190,999	4,002	70	30	21	7	2	1	1	31	44	
190,919	4,023	39	21	18	12	7	4	2	31	44	km 190 = 1000 m
190,840	4,009	42	21	17	11	5	3	2	31	44	
190,759	4,023	33	17	13	6	3	2	2	31	44	
190,679	4,009	52	25	18	9	4	3	2	32	44	
190,599	3,951	95	32	26	12	6	1	0	32	44	
190,521	4,009	44	23	19	12	7	5	3	32	44	
190,440	4,009	50	23	19	11	5	3	2	32	44	
190,359	4,045	30	12	9	6	3	2	2	32	44	
190,280	3,937	60	30	23	11	6	4	2	32	44	
190,199	3,951	55	27	18	9	4	3	2	32	44	
190,120	3,929	78	38	28	12	5	2	2	32	44	
190,041	3,951	56	28	21	11	6	4	3	32	44	
189,960	3,937	32	16	13	8	4	3	2	32	44	km 189 = 1000 m
189,880	3,937	47	25	20	10	5	3	2	32	44	
189,800	3,994	52	27	22	13	6	3	3	32	44	
189,721	4,016	58	28	23	12	6	4	3	32	44	
189,640	3,980	39	22	18	11	4	2	2	32	44	
189,560	4,009	26	11	8	4	3	2	1	32	44	
189,480	4,030	22	12	11	8	6	5	4	32	44	
189,397	3,973	50	23	18	9	5	3	3	32	44	
189,321	3,951	50	27	23	13	7	4	3	32	44	
189,241	4,045	18	11	10	7	5	3	2	32	44	
189,160	4,038	38	21	19	11	6	3	2	32	44	
189,080	4,002	49	24	19	10	4	3	2	32	44	
189,000	3,980	35	16	11	7	4	3	2	32	44	
188,999	4,052	25	13	11	7	4	3	2	32	44	km 188 = 1085 m
188,921	4,038	27	15	12	7	4	3	2	33	44	
188,842	3,973	54	27	20	10	5	4	3	33	44	
188,760	4,023	49	27	23	14	7	4	2	33	44	
188,680	4,023	22	12	11	7	4	3	2	33	44	
188,600	4,016	41	21	18	9	4	3	2	33	44	
188,521	3,980	30	15	12	8	5	3	2	33	44	
188,440	4,016	22	11	10	6	4	3	2	33	44	
188,360	4,016	41	19	15	8	4	3	2	33	44	
188,280	4,002	52	22	15	7	4	3	2	33	44	
188,200	3,994	30	16	14	9	5	3	2	33	44	
188,120	3,987	37	19	17	10	6	4	2	33	44	
188,040	4,016	29	15	13	8	5	3	2	33	44	
187,880	4,016	30	17	15	10	6	4	3	33	44	km 187 = 920 m
187,800	3,980	47	25	20	8	4	2	2	33	44	
187,720	3,987	32	19	18	11	5	3	2	33	44	
187,641	3,980	34	20	18	9	4	2	2	33	44	
187,560	3,973	34	21	21	13	8	5	3	33	44	
187,480	3,944	52	26	23	13	7	4	3	34	44	
187,400	3,951	47	26	25	15	8	5	3	33	44	
187,320	3,980	47	23	20	13	6	4	3	33	44	
187,241	3,922	42	20	19	12	7	4	3	34	44	
187,160	3,958	50	28	25	16	9	5	4	34	44	
187,080	3,994	82	38	32	18	9	5	4	34	44	
187,000	3,966	59	30	25	13	6	4	3	34	44	
186,841	4,125	60	31	24	15	6	4	3	31	53	km 186 = 1000m
186,761	4,110	36	22	20	14	9	6	4	31	53	
186,681	4,154	37	22	20	13	7	5	3	31	53	
186,600	4,146	29	17	15	11	6	4	3	31	53	
186,518	4,161	17	10	9	6	4	3	2	31	53	
186,440	4,073	21	12	10	8	4	2	2	31	53	
186,359	4,110	26	14	11	7	4	3	2	31	53	
186,279	4,110	11	5	5	4	2	2	1	31	53	
186,199	4,095	39	16	11	6	4	3	2	31	53	
186,120	4,066	32	14	8	4	2	2	1	31	53	
186,039	4,095	14	7	6	4	3	2	1	31	53	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
185,960	4,066	71	36	29	9	4	2	2	31	53	km 185 = 1000m
185,878	4,095	22	12	9	6	3	2	2	31	53	
185,800	4,066	24	14	12	8	4	2	1	31	53	
185,720	4,073	54	8	7	6	3	2	2	31	53	
185,640	4,081	18	10	9	9	5	4	2	31	53	
185,560	4,052	26	14	9	4	3	2	2	31	53	
185,478	4,073	12	7	5	4	2	2	1	31	53	
185,398	4,088	24	14	11	7	3	2	1	31	53	
185,320	4,110	17	9	7	4	3	2	1	31	53	
185,239	4,095	22	11	7	6	3	3	2	31	53	
185,160	4,110	21	12	9	8	3	3	2	32	53	
185,080	4,073	33	14	11	7	4	3	2	31	53	
185,000	4,066	33	16	12	8	4	3	3	31	53	
184,919	4,110	14	8	7	6	4	3	2	31	53	km 184 = 1000m
184,838	4,081	20	11	9	5	3	2	2	32	53	
184,759	4,154	17	11	10	8	5	3	2	31	53	
184,679	4,154	13	8	8	5	4	2	2	31	53	
184,599	4,117	25	14	11	7	4	3	2	31	53	
184,519	4,139	29	17	15	10	6	4	3	32	53	
184,440	4,117	20	11	9	7	4	3	2	31	53	
184,359	4,110	29	18	16	11	7	5	3	32	53	
184,279	4,066	25	11	9	7	4	4	3	31	53	
184,199	4,037	40	16	11	6	4	3	2	31	53	
184,118	4,081	17	9	8	5	3	2	1	32	53	
184,037	4,037	44	16	11	6	3	3	2	32	53	
183,960	4,030	22	13	11	7	4	2	2	32	53	km 183 = 1000m
183,880	4,066	18	10	8	5	3	2	2	32	53	
183,801	4,044	39	19	16	11	5	4	3	32	53	
183,719	4,044	31	17	15	10	5	4	3	32	53	
183,639	4,044	20	11	10	6	4	4	3	32	53	
183,559	4,073	28	17	14	10	4	3	2	32	53	
183,480	4,066	21	12	11	7	4	3	2	32	53	
183,400	4,066	33	17	13	10	5	4	3	32	53	
183,320	4,073	21	12	11	7	4	3	2	33	53	
183,240	4,081	25	15	12	9	4	2	2	33	53	
183,160	4,037	38	13	11	7	3	2	1	32	53	
183,080	4,052	30	18	15	9	5	3	2	32	53	
183,000	4,081	20	12	11	6	3	2	2	33	53	
182,919	4,059	25	13	11	7	4	2	2	33	53	km 182 = 1000m
182,840	4,044	21	12	10	6	4	3	1	33	53	
182,761	4,117	9	5	5	4	3	2	2	33	53	
182,680	4,103	21	13	12	9	5	3	1	33	53	
182,601	4,125	15	10	9	7	4	3	2	33	53	
182,519	4,073	12	7	7	6	4	4	3	32	53	
182,439	4,030	33	16	13	7	4	2	2	32	53	
182,360	4,022	27	15	13	9	5	3	2	32	53	
182,280	4,037	30	17	15	11	6	4	2	32	53	
182,200	4,008	65	32	25	13	6	3	2	32	53	
182,119	4,044	47	24	18	9	5	4	3	32	53	
182,037	4,154	22	11	9	6	3	3	2	32	53	
181,960	4,132	27	14	12	8	4	2	2	32	53	km 181 = 1000m
181,880	4,132	26	15	13	9	5	3	2	32	53	
181,799	4,132	16	8	8	5	4	3	2	32	53	
181,719	4,044	73	31	21	11	5	3	2	32	53	
181,640	4,117	25	14	12	8	6	4	3	31	53	
181,559	4,103	38	22	21	16	10	8	5	31	53	
181,480	4,154	22	13	12	10	7	5	4	31	53	
181,400	4,139	28	16	13	10	6	4	3	32	53	
181,320	4,059	39	23	21	14	10	7	5	32	53	
181,239	4,117	22	13	12	9	6	5	4	31	53	
181,159	4,059	71	42	37	24	13	7	5	31	53	
181,080	4,125	26	18	17	13	10	8	6	31	53	
181,000	4,154	18	14	12	10	8	7	5	31	53	
180,920	4,125	21	12	12	9	7	5	4	31	53	km 180 = 1018m
180,840	4,110	25	15	14	11	8	6	5	31	53	
180,758	4,088	40	22	19	12	8	5	4	31	53	
180,680	4,110	38	22	18	12	5	2	2	31	53	
180,599	4,088	60	34	26	19	10	6	5	31	53	
180,520	4,125	31	19	18	17	9	6	5	31	53	
180,439	4,117	36	23	22	15	10	7	5	31	53	
180,358	4,139	17	11	11	8	6	4	2	31	53	
180,279	4,146	16	13	11	9	6	4	3	31	53	início de ponte km 180,180

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
180,200	4.110	66	36	30	16	12	7	4	31	53	fim de ponte km 180,011
179,960	4.146	15	7	5	3	2	2	1	31	53	km 179 = 990m
179,879	4.132	19	10	8	7	3	2	1	31	53	
179,799	4.117	18	11	11	9	6	4	2	31	53	
179,720	4.117	15	8	8	6	5	5	4	31	53	
179,640	4.059	17	8	7	5	3	2	2	31	53	
179,559	4.110	28	15	13	10	7	6	5	32	53	
179,480	4.081	44	25	22	15	10	7	5	32	53	
179,400	4.139	26	12	9	6	4	4	3	32	53	
179,320	4.088	18	7	7	5	3	2	2	31	53	
179,239	4.088	27	13	10	7	5	4	3	31	53	
179,158	4.073	20	11	9	7	4	3	2	32	53	
179,078	4.103	18	10	9	6	3	2	1	32	53	
179,000	4.146	18	10	9	7	4	3	2	31	53	
178,920	4.146	21	11	10	7	4	3	2	32	53	km 178 = 1000m
178,840	4.103	17	8	7	5	4	3	2	31	53	
178,758	4.125	44	21	11	3	2	2	2	31	53	
178,680	4.139	20	10	10	7	5	4	2	31	53	
178,601	4.146	16	8	7	4	3	2	1	31	53	
178,520	4.088	17	10	8	5	3	2	1	32	53	
178,440	4.125	19	10	9	6	3	2	2	32	53	
178,359	4.139	21	11	10	7	5	4	2	31	53	
178,282	4.125	17	10	9	6	4	3	2	31	53	
178,200	4.117	23	11	9	6	4	3	2	31	53	
178,121	4.139	19	12	11	7	4	4	2	31	53	
178,040	4.066	31	14	10	6	3	2	2	31	53	
177,959	4.146	27	13	11	7	4	3	2	31	53	km 177 = 1000m
177,880	4.132	15	9	8	5	2	1	1	31	53	
177,799	4.132	14	8	8	5	3	2	1	31	53	
177,718	4.139	23	13	11	8	4	2	1	31	53	
177,638	4.103	16	9	8	5	4	3	2	31	53	
177,560	4.125	22	13	12	8	4	2	2	30	53	
177,479	4.146	26	13	11	8	5	4	3	30	53	
177,398	4.146	23	14	12	8	3	2	1	30	53	
177,320	4.183	10	6	6	4	3	2	2	30	53	
177,239	4.161	11	6	5	5	2	1	1	30	53	
177,158	4.168	10	6	6	6	3	2	1	30	53	
177,080	4.139	11	6	6	4	3	2	1	30	53	
176,999	4.132	17	9	7	6	4	3	2	29	53	
176,920	4.154	11	7	7	5	4	2	2	29	53	km 176 = 1000m
176,839	4.132	22	14	13	8	6	3	2	30	53	
176,760	4.190	15	9	8	6	4	2	2	29	53	
176,679	4.154	24	14	11	7	4	3	2	29	53	
176,601	4.146	22	10	9	7	5	3	3	29	53	
176,519	4.146	22	11	8	6	4	4	3	29	53	
176,438	4.117	53	28	22	12	7	6	5	28	53	
176,360	4.146	25	14	11	7	4	4	3	28	53	
176,279	4.008	18	13	10	8	6	5	4	28	53	
176,200	4.132	25	14	11	6	3	2	2	27	53	
176,118	4.103	51	29	21	12	8	7	5	27	53	
176,038	4.125	56	34	30	19	13	9	6	27	53	
175,960	4.081	68	39	32	20	12	9	6	27	53	km 175 = 1000m
175,879	4.139	70	40	33	19	11	8	5	27	53	início de ponte km 175,864
175,800	4.095	60	36	33	23	13	7	5	27	53	fim de ponte km 175,804
175,719	4.095	28	14	12	9	6	4	3	27	53	
175,640	4.088	18	10	9	7	4	4	3	27	53	
175,559	4.117	23	13	11	7	4	3	2	27	53	
175,479	4.139	17	9	7	5	4	2	1	26	53	
175,399	4.110	23	14	12	8	6	5	4	26	53	
175,319	4.103	26	12	11	8	6	5	3	26	49	
175,239	4.117	23	10	8	6	4	3	3	26	49	
175,160	4.110	27	14	11	8	5	4	3	26	49	
175,079	4.125	22	13	12	9	6	4	2	26	49	
175,000	4.132	24	16	14	10	5	3	2	26	49	
174,921	4.132	22	14	12	8	5	3	2	26	49	km 174 = 1020m
174,839	4.125	28	15	13	8	5	3	2	26	49	
174,760	4.146	17	10	8	6	3	2	1	26	49	
174,680	4.139	18	10	8	5	2	1	1	26	49	
174,599	4.139	13	8	6	4	3	2	2	26	49	
174,520	4.132	19	10	7	4	3	2	2	26	49	
174,438	4.117	67	33	24	10	6	4	3	26	49	
174,358	4.117	29	15	12	8	3	2	1	26	49	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
174,280	4.125	34	19	15	9	5	3	2	26	49	
174,199	4.161	19	10	8	4	2	2	1	26	49	
174,120	4.168	15	9	7	4	3	2	2	26	49	
174,041	4.168	13	8	6	5	2	1	1	26	49	
173,960	4.117	12	6	5	4	3	1	1	26	49	km 173 = 1000m
173,880	4.139	22	11	8	5	2	2	1	25	49	
173,800	4.117	14	9	7	6	4	4	2	25	49	
173,720	4.095	11	5	5	4	3	2	2	25	49	
173,639	4.132	14	9	7	5	3	2	1	25	49	
173,558	4.139	16	10	9	6	4	3	2	25	49	
173,478	4.168	23	14	12	8	4	3	2	25	49	
173,397	4.161	21	11	9	6	4	3	2	25	49	
173,320	4.161	13	8	7	6	4	3	2	25	45	
173,240	4.132	32	20	16	9	4	2	2	25	45	
173,159	4.154	12	8	6	5	3	2	1	25	45	
173,078	4.146	16	8	7	5	3	3	2	24	45	
173,000	4.176	14	8	7	5	3	2	2	24	45	
172,920	4.154	14	7	6	5	3	2	2	25	43	km 172 = 1000m
172,840	4.161	11	6	5	4	3	2	1	24	43	
172,759	4.110	47	25	19	11	4	2	2	24	43	
172,679	4.095	64	35	25	14	6	4	2	24	43	
172,598	4.154	47	22	15	8	4	3	2	24	43	
172,520	4.161	15	9	8	6	3	3	2	24	43	
172,440	4.176	16	9	8	6	4	3	2	25	43	
172,360	4.146	16	10	9	6	4	3	2	24	43	
172,279	4.183	17	9	7	4	2	1	1	24	43	
172,200	4.154	23	12	10	7	4	2	1	24	43	
172,118	4.183	13	8	7	5	4	4	3	24	43	
172,040	4.146	36	23	19	13	7	4	3	24	43	
171,960	4.161	20	12	10	6	4	3	2	24	43	km 171 = 1000m
171,878	4.113	16	9	7	5	3	2	2	24	43	
171,800	4.113	10	7	6	5	4	3	2	24	43	
171,719	4.127	16	8	7	5	4	3	2	24	43	
171,638	4.134	21	13	11	9	6	4	3	24	43	
171,560	4.120	14	9	8	7	4	3	2	24	43	
171,480	4.091	23	13	11	8	5	3	2	24	43	
171,400	4.077	32	16	12	7	3	1	1	24	43	
171,319	4.084	16	8	6	4	2	1	1	24	43	
171,240	4.091	20	12	10	6	4	3	2	24	43	
171,161	4.055	11	6	4	3	2	1	1	24	43	
171,079	4.062	12	6	5	4	2	2	2	24	43	
171,000	4.098	24	13	10	6	3	2	1	24	43	
170,919	4.070	25	15	12	8	4	3	2	24	43	km 170 = 900m
170,839	4.077	23	13	10	6	3	3	2	24	43	
170,758	4.127	20	11	10	7	5	3	2	23	43	
170,680	4.105	18	10	9	6	3	2	2	23	43	
170,600	4.127	30	17	13	8	5	2	2	24	43	
170,518	4.127	13	7	5	4	2	2	1	23	43	
170,440	4.127	17	10	8	6	4	3	2	24	43	
170,360	4.113	26	17	15	11	7	5	3	24	43	
170,279	4.120	11	6	6	5	3	3	2	24	43	
170,199	4.127	17	10	8	6	4	3	2	24	43	
170,119	4.141	10	6	4	2	1	1	1	24	43	
170,040	4.127	11	6	5	3	3	2	1	24	43	
170,040	4.141	10	6	5	4	3	2	2	24	43	km 169 = 1110m
169,959	4.105	10	5	4	3	2	2	2	24	43	
169,878	4.105	9	5	4	4	3	2	2	24	43	
169,800	4.091	20	11	9	7	4	2	2	24	43	
169,720	4.113	14	9	8	6	3	2	2	23	43	
169,641	4.120	23	14	11	7	5	2	2	24	43	
169,562	4.077	26	17	14	9	6	4	3	24	43	
169,482	4.120	16	10	9	6	4	3	2	23	43	
169,399	4.084	15	10	8	6	4	2	2	23	43	
169,318	4.134	11	6	4	4	2	2	1	23	43	
169,238	4.084	15	8	6	3	3	2	1	24	43	
169,160	4.105	18	12	10	8	4	3	2	23	43	
169,080	4.134	16	10	9	7	5	4	3	23	43	
169,000	4.113	14	9	8	7	5	3	2	24	43	
168,918	4.105	24	16	13	10	6	4	3	23	43	km 168 = 1000m
168,840	4.105	23	14	13	10	6	3	3	24	43	
168,760	4.091	19	11	9	8	5	3	3	23	43	
168,680	4.105	15	10	8	7	4	3	2	24	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
168,600	4.127	15	8	7	5	4	2	2	23	43	
168,519	4.105	43	23	17	10	4	3	2	24	43	
168,439	4.098	23	13	11	8	4	3	2	24	43	
168,360	4.105	41	20	14	7	3	2	1	24	43	
168,281	4.084	52	29	22	12	6	3	2	24	43	
168,199	4.084	33	18	14	9	5	3	2	24	43	
168,120	4.113	10	6	5	3	3	3	2	23	41	
168,040	4.105	11	5	4	3	2	2	1	24	41	
167,958	4.149	11	6	4	3	2	2	1	26	41	km 167 = 1000m
167,880	4.134	17	10	10	9	5	3	2	26	41	
167,797	4.134	18	11	10	8	5	4	2	26	41	
167,719	4.141	14	8	7	5	3	2	2	26	41	
167,638	4.120	21	11	10	6	4	3	2	26	41	
167,559	4.134	19	11	9	6	4	3	3	26	41	
167,479	4.113	16	10	9	6	4	3	2	26	41	
167,399	4.084	19	13	12	10	7	5	3	26	41	
167,321	4.120	19	12	11	9	5	4	3	26	41	
167,239	4.127	21	14	12	8	5	3	3	26	41	
167,160	4.113	20	13	11	8	5	4	3	26	41	
167,081	4.120	37	23	20	13	8	5	3	26	41	
167,001	4.141	23	15	14	10	6	4	2	26	41	
166,920	4.149	23	14	13	9	6	3	2	26	41	km 166 = 1000m
166,840	4.134	23	15	13	9	6	4	3	26	41	
166,760	4.134	31	21	19	14	10	7	5	26	41	
166,680	4.127	16	10	9	6	5	4	1	26	41	
166,600	4.127	19	12	11	7	5	4	3	26	41	
166,518	4.149	16	10	9	6	4	3	2	26	41	
166,439	4.141	11	7	6	4	2	1	1	26	41	
166,359	4.149	18	11	10	7	4	3	2	26	41	
166,280	4.134	17	10	8	5	3	2	2	26	41	
166,200	4.120	19	12	11	8	5	3	2	26	41	
166,121	4.134	15	9	9	6	4	3	2	26	41	
166,040	4.120	17	10	8	4	3	2	2	26	41	
165,960	4.134	11	8	8	6	4	3	2	27	41	km 165 = 1000m
165,879	4.149	12	8	7	5	4	2	1	26	41	
165,800	4.127	8	4	4	3	3	2	1	26	41	
165,720	4.127	12	8	7	6	4	2	2	26	41	
165,640	4.149	13	8	7	4	3	2	2	26	41	
165,559	4.156	8	5	5	4	3	3	2	26	41	
165,479	4.127	11	7	7	6	4	2	1	26	41	
165,400	4.105	13	8	8	6	4	3	2	26	41	
165,320	4.141	15	9	8	6	4	2	1	26	41	
165,240	4.127	10	5	5	4	3	3	1	26	41	
165,161	4.120	9	5	4	3	2	2	1	27	41	
165,079	4.127	14	6	5	3	3	2	2	27	41	
165,000	4.113	17	9	7	4	3	2	2	26	41	
164,920	4.113	13	7	7	5	3	3	2	26	41	km 164 = 1000m
164,840	4.105	20	12	10	7	4	3	2	26	41	
164,759	4.113	22	14	12	8	4	3	2	26	41	
164,679	4.113	23	15	13	9	6	5	3	26	41	
164,599	4.055	47	28	22	14	9	6	4	26	41	
164,520	4.084	24	15	14	10	6	4	3	27	41	
164,440	4.084	23	14	12	8	4	3	2	27	43	
164,359	4.077	21	12	10	6	3	2	1	27	43	
164,279	4.091	19	12	10	7	4	3	2	26	43	
164,200	4.062	39	21	15	9	5	3	2	27	43	
164,119	4.055	22	12	11	9	6	4	2	27	43	
164,040	4.091	34	21	18	13	7	5	3	27	43	
163,961	4.098	57	32	25	14	6	3	2	27	43	km 163 = 1000m
163,880	4.134	13	8	6	5	4	3	2	27	43	
163,800	4.105	39	19	8	5	3	2	1	27	43	
163,719	4.134	38	19	13	9	6	3	3	27	43	
163,640	4.113	45	26	20	12	6	3	3	27	43	
163,561	4.120	40	23	18	10	5	3	2	27	43	
163,479	4.105	32	19	15	10	6	4	3	27	43	
163,399	4.120	40	23	17	10	5	3	3	27	43	
163,320	4.156	27	16	13	8	4	2	2	27	43	
163,240	4.127	32	19	15	9	5	3	2	28	43	
163,159	4.113	49	28	23	13	7	4	3	28	43	
163,080	4.149	12	6	4	3	2	1	1	27	43	
163,000	4.134	18	11	9	7	4	3	2	28	43	
162,920	4.091	35	23	21	13	7	5	3	28	43	km 162 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
162,839	4,098	43	26	21	13	7	4	3	28	43	
162,758	4,077	62	35	28	17	8	5	3	28	43	
162,680	4,055	76	44	31	17	8	5	3	28	43	
162,599	4,077	50	28	22	14	7	5	4	28	43	
162,519	4,120	27	16	13	9	6	5	4	28	43	
162,439	4,098	26	15	13	8	5	3	2	28	43	
162,360	4,048	58	32	20	8	4	3	2	28	43	
162,280	4,105	43	28	24	16	8	5	3	28	43	
162,198	4,091	29	18	15	10	6	3	2	29	43	
162,120	4,091	35	19	15	9	5	3	2	29	43	
162,040	4,077	50	29	23	11	6	4	3	29	43	
161,959	4,091	29	18	15	9	5	3	2	29	43	km 161 = 1000m
161,880	4,084	34	19	15	9	5	3	2	28	43	
161,800	4,077	48	29	24	14	7	4	3	28	43	
161,718	4,055	38	18	13	7	3	2	1	28	43	
161,640	4,098	27	13	9	5	3	2	2	28	43	
161,560	4,084	47	27	20	11	5	3	2	28	43	
161,480	4,070	48	25	18	8	4	2	2	28	43	
161,399	4,105	29	16	12	7	4	3	2	29	43	
161,319	4,098	43	22	16	9	4	3	2	29	43	
161,240	4,084	54	29	21	11	5	3	2	29	43	
161,159	4,077	28	13	10	6	4	2	2	29	43	
161,080	4,077	33	18	15	9	5	3	2	29	43	
161,000	4,091	38	22	19	11	7	4	3	30	43	
160,920	4,098	48	29	24	16	8	5	3	29	43	km 160 = 1000m
160,839	4,113	33	19	16	10	7	5	3	30	43	
160,759	4,062	40	22	18	11	7	5	3	30	43	
160,680	4,120	21	13	11	8	5	4	3	30	43	
160,601	4,105	37	20	17	11	6	4	3	30	43	
160,521	4,091	49	28	23	13	5	4	3	30	43	
160,442	4,084	40	23	19	14	8	5	3	30	43	
160,360	4,034	80	45	37	22	10	6	4	30	43	
160,281	4,034	77	43	35	21	12	8	5	30	43	
160,200	4,062	41	25	22	15	9	6	4	30	43	
160,119	4,070	61	36	30	18	9	6	4	30	43	
160,038	4,091	41	25	22	15	9	5	4	30	43	
159,960	4,070	65	34	26	15	8	5	3	30	45	km 159 = 995m
159,880	4,062	59	33	26	15	8	5	3	30	46	
159,799	4,091	51	30	25	15	8	5	3	30	46	
159,718	4,091	52	31	25	15	7	5	3	30	46	
159,640	4,055	59	33	27	15	7	5	3	30	46	
159,560	4,070	57	31	25	13	8	5	3	30	46	
159,483	4,098	26	16	14	10	6	4	3	31	46	
159,402	4,070	46	24	19	12	6	4	3	30	46	
159,322	4,055	41	26	23	16	10	7	4	30	46	
159,242	4,091	38	22	19	12	8	5	3	30	46	
159,161	4,077	52	30	23	14	7	4	3	30	46	
159,081	4,098	29	17	14	10	6	4	3	30	46	
159,000	4,048	58	33	28	19	10	6	4	30	46	
158,920	4,084	33	18	14	9	5	4	3	30	46	km 158 = 1000m
158,839	4,091	22	14	12	10	6	4	3	30	46	
158,760	4,055	46	25	20	13	6	4	3	30	46	
158,680	4,062	49	26	20	11	7	4	3	30	46	
158,599	4,084	26	14	12	9	5	4	3	30	46	
158,519	4,084	25	15	14	10	7	5	3	30	46	
158,440	4,091	30	18	16	11	7	5	3	31	46	
158,359	4,084	38	22	18	12	7	4	3	30	46	
158,279	4,070	43	22	18	11	6	4	3	30	46	
158,198	4,077	44	25	22	15	8	6	4	31	46	
158,118	4,077	26	15	12	10	6	4	3	31	46	
158,040	4,077	55	30	24	14	8	5	3	31	46	
157,960	4,084	32	20	18	13	8	5	3	31	46	km 157 = 1000m
157,879	4,070	50	28	24	16	9	6	4	31	46	
157,797	4,091	23	16	15	12	7	5	4	31	46	
157,720	4,091	25	17	16	12	8	6	4	31	46	
157,640	4,077	25	15	15	12	8	6	4	31	46	
157,561	4,055	28	19	17	13	9	6	4	31	46	
157,480	4,084	34	21	19	13	8	5	4	31	46	
157,400	4,070	28	18	16	11	7	5	4	31	46	
157,319	4,062	31	19	18	13	8	6	4	31	46	
157,239	4,062	37	19	16	11	8	6	5	31	50	
157,160	4,091	23	14	13	10	6	4	3	31	50	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
157,079	4.084	32	21	19	14	9	6	5	31	50	
157,000	4.098	26	17	16	12	7	5	4	31	50	
156,919	4.098	26	15	15	11	7	5	4	31	50	km 156 = 1000m
156,840	4.098	22	14	13	10	6	5	3	31	50	
156,760	4.105	28	18	16	12	8	6	4	31	50	
156,681	4.091	34	22	20	13	9	6	5	31	50	
156,601	4.077	27	17	16	12	8	6	4	31	50	
156,520	4.019	25	17	16	12	8	6	4	31	50	
156,439	4.098	26	17	15	12	9	6	4	31	50	
156,360	4.070	27	16	15	12	8	6	4	31	50	
156,279	4.077	28	18	16	12	8	5	4	31	50	
156,199	4.062	28	17	16	12	7	5	4	31	50	
156,120	4.091	32	19	17	11	6	5	4	31	50	
156,040	4.062	34	19	17	12	7	5	4	31	50	
155,960	4.062	35	21	20	14	10	7	5	31	50	km 155 = 1000m
155,877	4.084	30	17	15	10	7	5	3	31	50	
155,800	4.070	35	23	21	15	10	7	5	31	50	
155,720	4.098	22	14	13	10	7	5	4	31	50	
155,640	4.084	22	14	13	10	6	5	3	31	50	
155,559	4.091	23	14	13	9	6	4	3	32	50	
155,480	4.084	24	15	14	10	7	5	3	32	50	
155,400	4.105	35	21	19	13	8	5	3	32	50	
155,319	4.091	18	11	10	8	5	4	3	32	50	
155,239	4.105	23	15	14	10	6	4	3	32	50	
155,160	4.062	29	18	16	11	7	5	3	32	50	
155,079	4.070	21	12	11	8	5	4	3	32	50	
155,000	4.091	16	11	10	8	6	4	3	32	50	
154,918	4.098	21	13	13	9	7	5	3	32	50	km 154 = 1000m
154,839	4.091	26	17	15	11	7	5	4	32	50	
154,760	4.098	20	13	12	8	6	5	3	32	50	
154,679	4.062	19	12	11	8	6	4	3	33	50	
154,600	4.070	20	12	12	10	7	5	3	33	50	
154,519	4.084	19	12	11	7	5	4	3	33	50	
154,438	4.055	24	14	13	10	7	5	3	33	50	
154,360	4.070	20	12	11	8	6	4	3	33	50	
154,279	4.091	16	10	9	7	5	4	3	33	50	
154,200	4.062	21	13	12	10	6	4	3	34	50	
154,120	4.048	44	27	23	15	9	5	4	34	50	
154,041	4.062	19	12	11	8	6	4	3	34	50	
153,960	4.062	17	10	9	7	4	4	3	34	50	km 153 = 1000m
153,879	4.084	16	10	10	7	5	4	3	34	50	
153,799	4.062	21	11	10	7	5	4	3	34	50	
153,722	4.070	20	13	11	8	5	4	3	34	50	
153,640	4.012	54	28	20	10	6	4	4	34	50	
153,559	4.070	14	10	9	6	5	4	3	34	50	
153,480	4.077	17	9	9	6	5	4	3	34	50	
153,398	4.055	15	8	8	6	4	4	3	34	50	
153,321	4.062	17	10	9	6	5	3	2	34	50	
153,240	4.041	22	11	9	5	3	3	2	33	50	
153,148	4.077	11	7	7	6	5	3	2	34	50	
153,079	4.062	13	7	6	5	4	3	2	33	50	
153,000	4.026	11	8	7	6	5	4	2	34	50	
152,920	4.062	9	7	6	5	4	3	2	34	50	km 152 = 1000m
152,840	4.062	15	10	10	7	5	4	3	34	50	
152,759	4.005	22	10	9	7	4	3	2	34	50	
152,681	4.048	12	8	7	6	5	3	3	33	50	
152,600	4.048	36	17	14	8	4	2	2	34	50	
152,519	4.055	16	8	7	5	4	3	2	34	50	
152,439	4.048	13	7	7	5	3	2	2	33	50	
152,360	4.062	11	5	4	4	3	2	2	34	50	
152,280	4.062	13	8	7	6	4	3	2	34	50	
152,199	4.062	29	16	12	7	4	3	2	33	50	
152,120	4.034	44	24	19	11	6	4	3	33	50	
152,040	4.048	18	10	10	7	5	4	3	33	50	
151,960	4.048	31	17	15	10	7	4	3	33	50	km 151 = 1000m
151,880	4.048	31	16	14	9	6	4	3	33	50	
151,801	4.034	20	10	10	7	4	3	2	33	50	
151,719	4.026	41	21	18	11	7	4	3	33	50	
151,640	4.019	31	17	14	9	5	4	2	33	50	
151,560	4.026	34	20	17	10	6	4	2	33	50	
151,481	3.990	44	23	20	12	7	4	3	33	50	
151,400	3.998	56	31	27	16	8	5	3	32	50	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
151,320	3,998	35	17	13	9	6	4	3	33	50	
151,240	4,048	30	15	13	9	6	4	3	33	50	
151,158	4,048	30	16	14	10	6	4	3	33	50	
151,078	4,062	32	17	14	9	5	3	2	33	50	
151,000	4,041	24	13	11	8	5	4	3	33	50	
150,919	4,055	21	12	10	7	4	3	2	33	50	km 150 = 1000m
150,839	4,055	25	14	12	8	5	3	2	32	50	
150,758	4,055	22	11	9	6	4	3	2	32	50	
150,680	4,048	35	21	17	10	5	4	2	32	50	
150,600	4,034	35	18	14	9	5	3	3	32	50	
150,519	4,012	56	25	18	11	5	3	3	32	50	
150,440	4,041	44	22	17	11	7	5	3	32	50	
150,360	4,048	16	9	9	7	3	3	2	31	50	
150,279	4,070	16	8	7	6	4	3	3	31	50	
150,200	4,084	12	7	6	5	4	3	2	31	50	
150,120	4,055	12	6	5	5	4	3	3	31	50	
150,042	4,034	16	9	7	4	3	2	2	31	50	
149,960	4,211	25	15	13	9	5	4	3	24	36	km 149 = 1013m
149,877	4,232	9	6	6	4	3	2	1	24	36	
149,800	4,247	10	6	6	4	3	3	2	24	36	
149,719	4,261	9	6	5	4	3	2	1	24	36	
149,638	4,225	13	9	8	7	5	3	2	24	36	
149,559	4,203	8	4	3	3	2	1	1	25	36	
149,478	4,232	13	7	6	5	3	3	2	24	36	
149,400	4,211	7	4	4	3	2	2	1	25	36	
149,320	4,189	8	5	4	3	2	1	1	25	36	
149,240	4,203	14	7	6	4	3	3	2	25	36	
149,159	4,225	11	7	7	5	3	2	2	25	36	
149,080	4,196	10	5	4	3	2	2	1	25	36	
148,999	4,203	12	7	6	4	3	2	2	25	36	
148,919	4,189	13	8	7	5	4	3	3	25	36	km 148 = 986m
148,840	4,203	20	12	11	8	6	4	3	26	36	
148,759	4,175	28	16	13	8	5	4	3	26	36	
148,679	4,175	27	16	13	9	6	4	3	26	36	
148,600	4,196	17	11	9	6	4	3	2	25	36	
148,519	4,182	19	11	9	7	4	3	2	26	36	
148,439	4,175	25	15	12	7	4	2	2	26	36	
148,360	4,167	13	8	7	5	3	2	1	26	36	
148,278	4,196	13	8	6	5	3	2	2	26	36	
148,200	4,189	12	7	6	4	3	2	2	26	36	
148,119	4,182	11	7	6	4	3	2	2	26	36	
148,039	4,139	12	9	8	6	4	3	2	27	36	
147,959	4,167	10	6	5	4	3	3	2	26	36	km 147 = 1000m
147,879	4,196	14	10	9	7	5	3	2	26	36	
147,797	4,175	12	7	7	4	3	2	2	26	36	
147,719	4,189	11	7	7	5	3	2	2	26	36	
147,640	4,182	9	7	6	5	3	2	2	27	36	
147,560	4,189	10	6	5	4	3	2	2	26	36	
147,478	4,175	9	5	5	3	2	2	1	26	36	
147,399	4,182	16	7	4	3	2	2	2	27	36	
147,319	4,167	17	7	4	3	2	2	2	27	36	
147,240	4,153	17	8	5	4	3	3	2	27	36	
147,161	4,139	29	15	9	5	5	3	2	27	36	
147,079	4,160	27	13	8	5	4	3	2	26	36	
146,999	4,167	27	12	7	4	3	2	2	26	36	
146,918	4,167	27	16	11	7	5	4	3	27	36	km 146 = 1000m
146,841	4,160	37	17	10	6	4	3	2	26	36	
146,759	4,160	46	24	17	10	6	5	3	26	36	
146,679	4,182	23	12	7	4	3	2	2	26	36	
146,599	4,182	7	0	4	2	2	2	1	27	36	
146,519	4,189	9	5	4	4	2	2	2	27	36	
146,439	4,182	8	4	3	2	1	1	1	27	36	
146,358	4,196	10	5	4	3	2	2	2	27	36	
146,279	4,167	9	5	4	4	3	2	1	27	36	
146,199	4,160	18	10	7	5	3	2	2	27	36	
146,119	4,182	10	5	5	4	3	1	1	27	36	
146,040	4,139	29	16	13	8	4	3	2	27	36	
145,959	4,167	9	5	4	3	2	2	1	27	36	km 145 = 1000m
145,879	4,146	10	6	6	4	3	2	2	27	36	
145,799	4,139	16	10	8	6	4	3	2	27	36	
145,720	4,160	8	4	3	3	2	2	2	27	36	
145,639	4,153	10	6	6	4	3	3	2	27	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0				DATA: fev/2007					
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
145,560	4.131	13	6	5	4	2	2	1	27	36	
145,480	4.139	27	15	11	7	3	2	2	27	36	
145,399	4.117	27	15	11	7	5	3	2	27	36	
145,319	4.102	41	21	15	8	4	2	1	27	36	
145,239	4.110	7	4	3	3	2	1	1	27	36	
145,159	4.139	15	7	5	4	3	2	1	27	36	
145,078	4.139	9	5	5	4	3	2	1	27	36	
145,000	4.153	9	4	3	2	2	2	1	28	36	
144,920	4.124	17	9	7	5	3	2	2	27	36	km 144 = 950m
144,839	4.131	13	7	6	3	2	2	1	27	36	
144,760	4.081	12	8	7	6	4	3	2	27	36	
144,679	4.110	10	6	5	3	2	1	1	27	36	
144,599	4.117	13	7	6	4	3	2	2	27	36	
144,519	4.088	29	17	15	11	6	3	3	27	36	
144,438	4.124	32	20	17	12	7	4	3	28	36	
144,357	4.102	36	23	21	14	9	5	3	28	36	
144,277	4.088	55	31	24	13	6	4	3	27	36	
144,199	4.088	28	16	13	8	5	4	3	27	36	
144,119	4.102	37	22	17	10	5	4	2	27	36	
144,040	4.066	48	30	26	18	11	7	5	27	36	
143,960	3.987	111	69	60	37	20	11	7	27	36	km 143 = 1057m
143,879	4.045	72	49	45	31	17	10	6	27	36	
143,799	4.110	27	18	16	12	8	5	4	28	36	
143,719	4.074	51	31	27	19	11	8	6	27	36	
143,639	4.110	30	17	14	9	5	4	3	27	36	
143,558	4.074	70	40	28	15	8	5	4	27	36	
143,479	4.023	86	44	33	17	6	2	1	27	36	
143,399	4.088	56	33	28	19	10	6	4	28	36	
143,318	4.030	68	40	30	17	8	4	3	28	36	
143,240	3.966	100	63	49	26	15	8	5	27	36	
143,158	4.030	67	38	26	13	5	3	3	28	36	
143,079	4.030	59	35	27	17	6	3	1	27	36	
143,000	4.002	57	31	24	15	7	4	2	27	36	
142,840	4.074	89	62	45	25	11	6	5	24	36	km 142 = 915m
142,760	4.117	43	28	23	16	9	6	3	24	36	
142,680	4.131	32	19	15	10	6	4	3	25	36	
142,600	4.153	24	16	14	11	7	5	4	25	36	
142,521	4.182	26	16	14	11	7	5	3	25	36	
142,441	4.189	29	18	15	11	6	4	2	25	36	
142,360	4.182	22	14	12	8	5	3	2	25	36	
142,280	4.175	24	14	11	7	4	3	2	25	36	
142,200	4.196	28	18	15	10	5	3	2	25	36	
142,120	4.196	11	7	6	5	4	3	2	25	36	
142,040	4.088	44	27	22	16	9	6	4	26	36	
141,960	4.175	23	15	14	10	7	5	3	25	36	km 141 = 1090m
141,880	4.153	48	27	22	14	6	4	3	25	36	
141,800	4.167	22	10	8	5	2	1	1	25	36	
141,718	4.167	17	9	6	4	2	1	1	25	36	
141,638	4.160	23	13	10	6	3	1	1	25	36	
141,640	4.095	33	20	17	12	6	4	2	30	36	
141,561	4.102	39	20	16	9	4	2	1	30	36	
141,480	4.066	36	20	14	7	3	1	1	30	36	
141,400	4.102	17	8	6	4	3	2	1	29	36	
141,321	4.081	37	22	19	14	10	8	6	30	36	
141,241	4.074	58	38	33	21	10	6	4	30	36	
141,160	4.110	13	7	6	4	3	2	1	30	36	
141,080	4.052	71	42	35	21	10	4	1	30	36	
141,000	4.110	29	16	12	7	3	1	1	30	36	
140,918	4.059	64	38	33	23	14	10	7	30	36	km 140 = 965m
140,839	4.088	47	28	25	18	11	7	4	30	36	
140,759	4.102	54	31	25	15	7	3	1	30	36	
140,679	4.066	55	34	31	22	14	9	6	30	36	
140,599	4.110	44	25	21	13	7	4	3	30	36	
140,520	4.102	33	20	17	13	7	4	3	31	36	
140,440	4.066	60	38	34	23	13	9	6	31	36	
140,359	4.074	49	29	24	15	9	6	4	31	36	
140,279	4.117	37	20	16	9	5	3	2	31	36	
140,200	4.117	25	14	13	10	5	3	2	31	36	
140,120	4.117	18	11	10	6	3	2	2	31	36	
140,039	4.088	21	10	10	7	6	4	3	31	36	
139,960	4.074	27	15	11	7	5	4	3	32	36	km 139 = 1025m
139,880	4.088	17	10	9	7	5	3	2	32	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
139,799	4.095	23	14	13	10	7	5	3	32	36	
139,720	4.102	14	9	9	8	5	2	1	32	36	
139,638	4.088	17	7	5	1	1	1	0	32	36	
139,560	4.139	13	7	7	6	3	2	2	32	36	
139,479	4.102	14	7	5	4	3	2	1	32	36	
139,399	4.066	12	6	5	4	3	2	1	32	36	
139,320	4.074	18	10	9	8	4	3	1	32	36	
139,240	4.081	34	18	14	7	3	1	0	32	38	
139,159	4.095	42	24	19	11	5	2	1	32	38	
139,079	4.088	25	15	14	11	6	4	2	32	38	
139,000	4.095	12	6	5	4	2	2	1	33	38	
138,920	4.066	43	24	19	10	4	3	2	33	38	km 138 = 1020m
138,840	4.059	30	17	13	9	5	4	3	32	38	
138,760	4.095	13	6	6	5	3	3	2	33	38	
138,680	4.045	27	15	15	10	8	6	4	33	38	
138,598	4.045	23	13	12	9	6	4	3	33	38	
138,520	4.102	15	8	7	5	3	2	1	32	40	
138,439	4.081	37	23	23	17	11	7	5	32	40	
138,359	4.081	41	25	22	14	7	4	2	32	40	
138,278	4.088	21	11	10	8	5	4	3	32	40	
138,199	4.066	18	10	9	6	4	3	2	32	40	
138,120	4.088	17	9	7	5	3	2	2	32	40	
138,040	4.088	21	12	12	9	5	4	3	32	40	
137,960	4.088	33	20	17	12	5	3	2	32	40	km 137 = 1000m
137,879	4.081	37	17	14	10	6	4	3	32	40	
137,800	4.016	65	40	34	20	13	8	6	32	40	
137,719	4.045	73	39	33	20	11	8	5	32	40	
137,639	4.074	40	22	19	12	6	4	3	32	40	
137,560	4.059	42	24	20	13	8	6	4	32	40	
137,479	4.081	34	20	18	13	8	5	3	32	40	
137,399	4.066	23	12	10	6	4	3	2	32	40	
137,320	4.117	33	18	14	8	4	2	1	32	40	
137,240	4.095	27	14	12	8	4	3	2	32	40	
137,159	4.074	32	18	16	13	8	6	4	32	40	
137,080	4.088	39	21	17	10	5	3	2	32	40	
137,000	4.081	25	13	11	8	5	4	3	32	40	
136,920	4.081	20	10	9	7	4	3	2	32	40	km 136 = 1000m
136,840	4.074	26	15	11	8	4	3	2	32	40	
136,758	4.081	26	13	11	8	4	2	2	32	40	
136,679	4.074	42	21	17	12	6	4	2	32	40	
136,599	4.059	44	24	21	16	10	6	4	32	40	
136,520	4.030	68	40	34	20	11	7	5	32	40	
136,438	4.045	47	30	26	18	11	7	4	32	40	
136,359	3.994	50	29	26	17	10	7	4	32	40	
136,278	4.023	61	36	32	21	12	7	4	32	40	
136,198	4.038	51	26	16	8	3	2	1	32	40	
136,120	4.066	21	11	9	5	2	1	0	32	40	
136,040	4.023	40	24	21	12	8	5	3	32	40	
135,960	4.084	31	15	13	8	5	3	2	34	57	km 135 = 1000m
135,877	4.070	38	24	22	16	10	6	3	33	57	
135,799	4.070	40	21	19	13	8	5	3	34	57	
135,720	4.048	65	34	27	16	9	6	4	34	57	
135,639	3.976	110	66	57	33	17	10	6	34	57	
135,560	4.098	31	14	11	8	3	1	1	34	57	
135,482	4.055	42	24	23	16	9	5	3	34	57	
135,401	4.070	29	13	10	6	2	1	0	34	55	
135,321	4.091	36	19	16	11	6	3	1	34	55	
135,240	4.034	38	22	20	14	8	5	3	34	55	
135,159	4.077	43	22	18	12	6	4	2	34	55	
135,079	4.077	42	19	15	9	4	1	1	35	55	
135,000	4.012	47	32	30	23	16	11	7	34	55	
134,920	3.998	39	31	25	20	13	10	6	34	55	km 134 = 1000m
134,838	4.062	33	18	16	11	6	4	2	34	55	
134,760	4.048	34	17	13	7	2	1	0	35	55	
134,680	4.019	53	27	23	15	10	6	4	35	55	
134,599	4.026	39	21	19	14	9	6	4	34	55	
134,519	4.019	25	14	14	12	8	6	4	35	55	
134,440	4.026	31	21	19	14	10	8	5	35	55	
134,360	3.998	50	27	22	14	8	5	4	34	55	
134,280	4.019	67	39	34	21	11	6	4	35	55	
134,200	4.026	34	21	18	15	10	8	5	35	55	
134,119	3.983	58	30	28	20	12	8	5	35	55	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
134,038	3,955	89	47	42	28	18	12	8	35	55	
133,960	3,976	50	29	27	20	13	9	7	35	55	km 133 = 1000m
133,879	3,998	49	23	18	11	5	3	2	35	55	
133,800	3,947	78	41	35	22	11	7	5	35	55	
133,720	3,990	36	22	22	17	11	7	4	35	55	
133,637	4,034	70	35	29	17	9	6	4	35	55	
133,560	3,990	77	44	40	26	13	8	5	35	55	
133,479	4,026	67	34	27	15	7	5	3	35	55	
133,398	4,041	32	18	16	11	6	5	3	35	55	
133,319	3,998	80	39	31	16	7	5	4	35	55	
133,238	4,005	93	46	35	17	8	5	4	35	55	
133,160	4,019	62	28	20	10	5	4	3	35	55	
133,079	4,012	46	23	18	12	7	4	3	35	55	
133,000	4,026	31	16	13	10	6	4	3	35	55	
132,918	4,005	69	33	25	14	7	4	3	35	55	km 132 = 967m
132,839	4,005	77	41	34	20	9	5	3	35	55	
132,760	4,048	29	14	13	10	7	5	3	35	55	
132,682	3,976	98	49	38	19	10	6	4	35	55	
132,602	4,026	59	30	26	16	8	5	4	35	55	
132,520	4,019	44	23	20	14	7	4	3	35	55	
132,438	3,983	67	36	32	21	11	7	5	35	55	
132,359	4,041	28	15	13	9	5	4	3	35	55	
132,277	4,005	43	22	20	14	8	6	4	35	55	
132,199	4,026	42	20	16	10	6	4	3	35	55	
132,120	3,998	61	32	27	17	8	6	4	35	55	
132,040	4,012	67	29	22	13	6	5	3	35	55	
131,960	4,034	33	17	14	10	6	4	4	35	55	km 131 = 1055m
131,879	4,005	76	40	32	19	10	6	4	35	55	
131,800	3,983	99	55	44	24	10	7	5	35	55	
131,720	3,990	74	37	32	19	10	6	5	35	55	
131,640	4,005	61	32	28	19	10	6	4	35	55	
131,560	3,983	50	25	22	15	9	6	4	35	55	
131,479	4,019	32	17	16	11	7	5	4	35	55	
131,400	3,983	69	38	35	23	12	8	5	35	55	
131,320	3,969	92	51	44	26	12	7	5	35	55	
131,239	3,969	90	44	37	20	10	7	5	35	55	
131,160	3,983	86	40	30	15	8	6	5	35	55	
131,080	4,012	40	20	18	12	7	5	4	35	55	
131,000	3,998	65	33	28	18	10	7	5	35	55	
130,920	3,976	86	46	39	25	14	9	6	35	55	km 130 = 993m
130,840	4,012	39	21	19	14	8	6	5	35	55	
130,759	3,998	76	37	29	16	9	6	4	35	55	
130,680	3,990	106	46	33	15	8	6	4	35	55	
130,599	4,005	29	16	16	12	8	6	4	35	55	
130,519	3,962	90	47	41	24	11	6	4	35	55	
130,440	4,005	64	31	23	12	6	3	3	35	55	
130,360	4,005	44	23	19	12	6	4	3	35	55	
130,279	3,990	42	21	18	11	6	4	3	35	55	
130,199	3,998	25	12	11	7	5	3	3	35	55	
130,118	4,005	20	11	11	8	6	4	3	35	55	
130,038	3,990	28	16	15	12	8	5	3	35	55	
129,960	3,983	84	40	32	18	8	5	4	35	55	km 129 = 1004m
129,879	3,990	24	12	11	9	5	3	3	34	55	
129,799	4,005	54	28	26	17	9	5	3	35	55	
129,720	4,012	22	12	11	8	5	4	3	35	55	
129,639	4,012	34	18	15	10	5	3	2	34	55	
129,559	4,034	41	20	15	10	5	3	2	35	55	
129,479	4,012	22	12	11	8	4	3	2	34	55	
129,400	4,019	51	25	18	9	4	3	3	34	55	
129,319	4,026	24	12	11	8	5	4	3	34	55	
129,237	4,019	19	10	9	7	4	4	3	34	55	
129,160	4,012	23	13	12	10	6	5	4	34	55	
129,081	3,983	72	31	23	12	7	5	4	34	55	
129,000	4,005	79	37	26	13	6	4	4	34	55	
128,920	3,955	105	45	30	13	6	4	3	34	55	km 128 = 1000m
128,838	3,990	60	28	20	11	5	3	3	34	55	
128,759	3,976	54	27	21	12	5	4	3	34	55	
128,680	3,969	75	37	29	15	6	4	3	34	55	
128,600	3,962	63	33	29	20	9	5	3	33	55	
128,519	3,998	51	25	19	8	4	3	2	33	55	
128,438	3,969	41	22	20	13	7	4	3	33	55	
128,359	3,969	19	9	9	8	5	4	3	33	55	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
128,280	3.990	27	13	11	8	5	4	3	33	55	
128,199	3.998	26	15	12	8	5	4	2	33	52	
128,119	4.005	24	11	10	7	4	3	2	33	52	
128,039	3.990	33	18	15	9	5	3	2	33	52	
127,960	4.113	25	14	12	8	5	4	3	29	52	km 127 = 963m
127,879	4.149	14	9	8	7	4	3	2	29	52	
127,800	4.105	18	10	9	6	4	4	3	29	52	
127,723	4.141	20	12	11	9	6	5	3	29	52	
127,642	4.134	20	12	11	8	6	4	3	29	52	
127,561	4.105	16	9	9	7	6	4	3	29	52	
127,481	4.127	20	11	10	8	5	4	3	29	52	
127,400	4.120	22	13	11	8	6	4	3	29	52	
127,319	4.105	19	10	8	6	4	3	2	29	52	
127,240	4.084	30	18	17	12	7	5	3	29	52	
127,160	4.098	36	20	17	12	7	4	3	29	52	
127,079	4.127	15	9	8	6	5	3	3	29	52	
127,000	4.048	25	14	12	9	6	4	3	29	52	
127,000	4.091	39	23	21	14	7	5	3	29	52	km 126 = 1040m
126,920	4.077	26	15	13	10	5	3	3	29	52	
126,839	4.134	20	11	10	7	5	4	3	29	52	
126,759	4.105	20	12	11	9	6	4	3	29	52	
126,680	4.105	22	14	11	9	6	4	3	29	52	
126,599	4.113	15	10	9	7	5	4	3	29	52	
126,520	4.113	19	11	10	9	6	4	3	29	52	
126,439	4.105	19	12	11	10	6	5	4	29	52	
126,360	4.084	48	28	24	14	7	4	3	29	52	
126,281	4.098	33	17	14	9	6	4	3	29	52	
126,200	4.098	42	23	17	9	5	3	3	29	52	
126,119	4.055	55	27	21	12	6	5	4	29	52	
126,040	4.091	37	20	17	11	7	5	4	29	52	
125,960	4.084	32	17	14	9	5	4	3	29	52	km 125 = 1000m
125,880	4.113	20	10	9	6	4	3	2	29	52	
125,799	4.084	31	18	16	11	7	5	4	29	52	
125,721	4.091	33	21	18	13	8	6	4	30	52	
125,640	4.077	36	18	16	11	7	5	4	29	52	
125,559	4.127	30	17	14	9	6	4	3	29	52	
125,479	4.127	17	11	10	6	4	4	3	30	52	
125,400	4.098	27	16	14	11	6	5	3	30	52	
125,319	4.062	26	16	14	10	6	4	3	30	52	
125,239	4.098	24	15	14	11	8	5	3	30	52	
125,160	4.070	25	15	12	8	5	4	3	30	52	
125,080	4.084	23	13	11	9	6	4	3	30	52	
125,000	4.098	25	16	14	10	6	5	3	30	52	
124,919	4.098	19	11	11	8	6	4	3	30	52	km 124 = 1000m
124,841	4.062	31	18	16	11	7	5	4	31	52	
124,759	4.084	24	14	13	11	7	5	3	30	52	
124,679	4.055	31	17	16	11	8	6	4	30	52	
124,599	4.048	41	23	19	13	7	5	3	31	52	
124,520	4.077	21	13	12	9	6	4	3	31	52	
124,442	4.077	26	16	14	10	7	5	3	31	52	
124,362	4.062	24	13	11	8	6	4	3	31	52	
124,281	4.055	22	13	13	10	7	5	3	31	52	
124,199	4.070	25	16	15	12	8	5	4	31	52	
124,119	4.077	30	14	11	8	6	4	3	31	52	
124,040	4.077	59	15	13	10	8	6	4	31	52	
123,880	4.070	37	18	13	8	5	4	3	31	52	km 123 = 948m
123,798	4.091	36	15	12	7	6	4	3	31	52	
123,719	4.077	31	16	12	7	5	4	4	31	52	
123,639	4.084	27	14	11	8	5	4	2	31	52	
123,561	4.055	29	16	12	8	5	4	3	31	52	
123,479	4.055	31	17	14	9	6	4	3	32	52	
123,398	4.041	39	20	16	8	5	3	2	32	52	
123,320	4.091	27	16	12	7	4	4	3	32	52	
123,241	4.077	22	13	11	7	4	3	3	32	52	
123,160	4.026	30	16	12	7	3	3	2	32	52	
123,079	4.070	20	11	9	6	3	3	2	32	52	
123,000	4.062	24	13	10	6	4	4	2	32	52	
123,000	4.098	34	17	14	9	4	3	2	32	52	km 122 = 1053m
122,920	4.084	26	13	11	7	5	3	3	32	54	
122,839	4.084	32	15	11	6	4	3	2	32	54	
122,760	4.041	41	12	8	6	3	2	2	32	54	
122,679	4.077	19	10	8	6	4	2	2	32	54	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
122.600	4.055	25	15	13	8	4	3	2	32	54	
122.519	4.005	53	16	11	8	4	3	2	32	54	
122.439	4.026	39	20	11	5	3	3	2	32	54	
122.360	4.048	55	27	20	9	3	3	2	32	54	
122.279	4.055	49	26	18	10	4	3	2	32	54	
122.200	4.026	56	20	14	6	3	3	2	32	54	
122.120	4.005	40	20	15	8	4	2	2	32	54	
122.039	4.012	42	21	16	8	5	4	3	32	54	
122.040	4.026	53	23	16	7	3	2	2	32	54	km 121 = 1060m
121.960	4.041	52	26	21	11	5	3	2	32	54	
121.879	4.062	55	28	20	10	3	2	2	32	54	
121.800	4.034	57	31	25	13	6	4	3	33	54	
121.719	4.055	53	27	20	10	4	3	2	33	54	
121.638	4.034	59	32	25	12	6	4	3	33	54	
121.560	4.041	53	25	19	10	5	2	2	33	54	
121.477	3.983	57	28	22	13	6	5	4	33	54	início de ponte km 121,393
121.159	4.026	47	27	24	17	10	7	5	33	54	fim de ponte km 121,180
121.080	4.005	37	22	19	12	7	4	3	33	54	
121.000	3.969	87	50	46	31	19	12	8	32	54	
120.920	4.127	74	35	20	9	7	6	5	27	47	km 120 = 1011m
120.840	4.113	93	49	36	20	10	6	5	27	47	
120.758	4.113	71	36	28	15	7	5	4	27	47	
120.679	4.105	44	23	18	11	5	4	3	27	47	
120.598	4.113	52	24	15	6	2	2	1	27	47	
120.520	4.084	48	24	13	5	3	2	1	27	47	
120.439	4.149	26	16	13	8	4	2	2	27	47	
120.358	4.105	42	17	10	3	2	1	1	27	47	
120.279	4.012	70	25	10	5	3	2	2	27	47	
120.199	4.141	13	6	6	5	4	3	2	28	47	
120.119	4.105	27	14	10	5	3	2	2	28	47	
120.039	4.084	49	25	17	8	4	3	2	28	47	
119.962	4.120	51	22	13	6	3	2	2	27	47	km 119 = 1000m
119.879	4.098	59	29	19	9	4	2	2	28	47	
119.799	4.070	56	27	19	7	3	2	2	28	47	
119.718	4.062	55	27	17	6	3	3	3	28	47	
119.640	4.091	32	17	12	7	4	3	1	28	47	
119.559	4.127	50	29	19	9	5	3	3	28	47	
119.480	4.098	47	26	17	7	4	4	3	28	47	
119.398	4.120	40	19	12	6	4	3	2	28	47	
119.320	4.041	46	27	21	11	5	4	3	29	47	
119.240	4.120	45	23	15	9	5	4	4	29	47	
119.159	4.091	72	36	23	10	4	2	2	29	47	
119.079	4.077	72	32	22	12	7	5	4	29	47	
119.000	4.084	63	30	20	10	6	4	3	29	47	
118.920	4.120	55	31	21	9	4	3	3	28	47	km 118 = 1000m
118.840	4.105	57	29	21	12	6	4	2	29	47	
118.759	4.091	67	34	18	9	4	3	3	29	47	
118.682	4.091	48	25	18	9	5	4	3	28	47	
118.600	4.084	37	18	13	8	5	3	3	29	47	
118.521	4.084	55	30	21	12	6	4	3	28	47	
118.441	4.113	48	22	15	8	5	3	2	29	47	
118.360	4.120	46	19	12	7	4	3	2	29	47	
118.279	4.120	30	17	13	8	5	3	2	29	47	
118.200	4.120	40	18	12	6	4	3	2	29	47	
118.120	4.120	49	24	15	8	5	4	3	29	47	
118.040	4.105	29	13	8	5	3	2	2	29	47	
117.959	4.113	31	15	9	3	2	2	2	29	47	km 117 = 985m
117.880	4.113	48	22	14	7	3	2	2	29	47	
117.800	4.091	71	35	23	8	4	3	2	30	47	
117.720	4.098	66	29	19	7	3	2	2	30	47	
117.640	4.120	53	24	11	4	2	2	2	29	47	
117.559	4.098	35	14	9	4	3	2	2	30	50	
117.479	4.113	31	15	10	6	3	2	2	30	50	
117.399	4.105	29	15	10	4	2	2	1	30	50	
117.319	4.134	40	20	13	6	3	2	1	29	50	
117.239	4.134	32	15	9	4	3	3	2	29	50	
117.159	4.120	31	17	11	5	3	3	2	29	50	
117.079	4.105	42	19	14	8	5	3	2	29	50	
117.000	4.105	35	19	14	7	4	3	2	30	50	
116.920	4.120	51	25	17	9	5	4	3	30	50	km 116 = 1000m
116.839	4.105	38	20	13	7	4	3	2	30	50	
116.760	4.141	27	14	10	6	3	3	2	30	50	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
116,678	4.120	35	17	12	6	3	3	2	30	50	
116,600	4.113	36	18	11	5	3	2	2	30	50	
116,519	4.091	35	19	14	7	4	3	2	30	50	
116,441	4.084	39	20	15	9	5	4	3	30	50	
116,359	4.077	33	17	12	6	3	3	2	30	50	
116,280	4.105	30	15	10	4	3	3	3	30	50	
116,200	4.113	31	15	9	4	3	3	2	30	50	
116,120	4.077	31	15	9	4	2	2	2	30	50	
116,038	4.091	30	15	10	5	4	3	2	30	50	
115,960	4.091	27	13	9	4	3	2	2	30	50	km 115 = 993m
115,879	4.105	27	15	10	5	3	3	2	30	50	
115,799	4.062	31	16	11	4	2	2	2	31	50	
115,718	4.098	30	14	10	4	2	2	2	30	50	
115,640	4.084	29	17	11	6	3	2	1	30	50	
115,560	4.091	31	17	12	6	3	3	2	30	50	
115,480	4.105	22	11	7	4	2	2	1	30	50	
115,400	4.070	54	26	16	9	3	2	2	31	50	
115,320	4.091	46	23	15	6	3	3	2	31	50	
115,240	4.062	48	21	15	6	3	2	1	31	50	
115,159	4.098	32	19	12	5	2	1	1	31	50	
115,080	4.105	32	18	13	7	4	3	2	30	50	
115,000	4.070	43	18	12	4	3	3	2	31	50	
114,920	4.062	35	16	10	4	2	2	1	31	50	km 114 = 995m
114,838	4.084	35	20	15	8	5	3	2	31	50	
114,760	4.062	40	17	10	4	3	2	2	30	50	
114,680	4.070	31	15	9	3	2	2	2	31	50	
114,600	4.084	34	17	11	5	3	3	2	31	50	
114,520	4.062	35	19	14	8	5	4	3	31	50	
114,439	4.098	32	15	10	5	4	2	2	31	50	
114,360	4.098	36	18	12	6	3	2	2	31	50	
114,281	4.091	37	18	12	6	3	2	2	31	50	
114,200	4.105	33	16	11	6	3	3	2	31	50	
114,120	4.062	36	18	13	6	3	2	2	31	50	
114,039	4.084	33	15	9	4	3	3	2	31	50	
113,958	4.062	31	15	9	4	2	2	2	31	50	km 113 = 1034m
113,880	4.084	29	15	10	5	3	2	2	31	51	
113,800	4.105	30	14	9	4	3	2	1	31	51	
113,720	4.098	31	15	10	5	3	2	2	31	51	
113,639	4.084	27	16	11	4	3	2	2	31	51	
113,560	4.084	43	21	13	6	3	2	1	31	51	
113,479	4.084	25	12	7	3	3	2	2	31	51	
113,398	4.070	36	16	10	5	4	3	2	31	51	
113,320	4.062	28	13	9	4	2	2	1	31	51	
113,239	4.048	29	13	9	4	2	2	2	31	51	
113,159	4.084	30	14	9	5	3	3	2	31	51	
113,078	4.077	28	13	9	5	4	2	2	32	51	
113,000	4.084	26	11	7	4	3	2	2	31	51	
112,919	4.055	29	14	8	3	2	1	1	31	51	km 112 = 941m
112,839	4.048	28	13	9	4	2	2	2	31	51	
112,759	4.091	21	11	7	3	3	2	1	31	51	
112,678	4.048	41	19	12	6	3	2	2	31	51	
112,600	4.084	28	17	13	8	4	2	2	31	51	
112,519	4.091	28	15	11	6	2	2	2	32	51	
112,440	4.084	24	12	8	4	3	2	2	31	51	
112,360	4.084	31	15	9	5	2	2	1	32	51	
112,279	4.070	41	19	13	7	4	2	2	31	51	
112,200	4.062	31	15	10	6	4	3	2	32	51	
112,119	4.084	28	16	11	5	4	3	3	32	51	
112,038	4.048	26	13	9	5	3	2	2	32	51	
111,958	4.055	52	22	11	5	4	2	2	31	51	km 111 = 1000m
111,878	4.084	22	11	9	6	4	3	2	31	51	
111,798	4.077	29	14	9	4	3	2	2	31	51	
111,720	4.070	28	15	11	7	5	4	3	31	51	
111,639	4.077	27	16	12	7	4	3	2	32	51	
111,558	4.077	28	15	11	6	3	3	2	31	51	
111,480	4.084	28	14	10	6	4	2	2	31	51	
111,400	4.077	27	13	9	4	3	3	2	31	51	
111,320	4.070	24	12	7	3	2	1	1	32	51	
111,240	4.070	29	15	10	4	2	1	1	31	51	
111,160	4.062	33	14	9	6	4	2	2	31	51	
111,078	4.048	36	19	14	6	4	3	2	32	51	
111,000	4.084	21	14	11	7	4	2	2	31	51	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
110,920	4.048	29	14	11	7	4	3	2	31	51	km 110 = 972m
110,840	4.062	24	11	8	5	3	3	2	31	51	
110,760	4.070	37	19	14	8	5	4	3	31	51	
110,678	4.070	37	20	14	9	4	3	2	31	51	
110,600	4.055	36	19	13	8	3	3	2	31	51	
110,518	4.019	42	22	17	8	4	3	2	32	51	
110,440	4.048	52	24	15	7	4	4	2	31	51	
110,358	4.070	23	12	8	6	4	2	2	32	51	
110,280	3.998	60	37	28	14	5	4	3	32	51	
110,200	4.019	48	25	16	7	3	2	2	32	51	
110,119	4.041	35	18	13	7	4	2	1	32	51	
110,040	4.048	26	13	9	5	2	2	1	32	51	
109,959	4.062	32	16	11	5	3	3	2	32	51	km 109 = 1000m
109,879	4.055	29	18	13	7	5	3	2	32	51	
109,799	4.077	33	17	12	7	4	3	2	32	51	
109,721	4.070	31	16	12	5	3	3	2	32	51	
109,640	4.070	33	18	14	7	4	3	2	32	51	
109,560	4.070	37	21	15	8	5	3	2	31	51	
109,480	4.077	24	11	7	3	2	2	1	32	51	
109,400	4.062	27	13	9	5	2	2	2	32	51	
109,320	4.070	32	13	9	4	3	2	2	32	51	
109,239	4.048	48	25	17	6	3	2	2	32	51	
109,158	4.070	27	14	10	5	3	3	2	32	51	
109,077	4.062	30	15	11	5	3	2	2	32	51	
109,000	4.077	37	17	11	6	3	2	2	32	51	
108,917	4.041	42	19	14	7	4	3	2	32	51	km 108 = 1000m
108,839	4.062	31	16	12	6	3	2	2	32	51	
108,761	4.062	28	13	8	4	3	2	2	32	52	
108,679	4.070	33	16	11	5	3	3	2	32	52	
108,599	4.062	33	15	10	6	4	3	2	32	52	
108,521	4.048	33	18	13	7	3	2	2	32	52	
108,441	4.048	33	13	10	6	4	3	2	32	52	
108,360	4.055	30	15	11	6	4	2	2	32	52	
108,279	4.062	35	17	13	6	3	3	2	32	52	
108,198	4.055	35	18	13	7	3	3	2	32	52	
108,120	4.055	38	19	13	8	5	3	2	33	52	
108,039	4.055	29	15	11	8	5	3	3	32	52	
107,960	4.034	41	18	14	9	5	4	2	33	52	km 107 = 963m
107,879	4.041	48	24	18	10	6	4	3	32	52	
107,799	4.077	25	11	9	5	3	2	2	32	52	
107,720	4.077	27	14	10	5	3	3	2	32	52	
107,639	4.070	28	14	10	6	3	2	2	32	52	
107,559	4.055	49	25	17	8	4	4	2	32	52	
107,478	4.026	68	33	23	11	4	3	2	32	52	
107,400	4.077	23	10	7	4	3	2	2	32	52	
107,321	4.041	21	11	7	3	1	1	1	33	52	
107,239	4.048	27	13	8	5	2	1	1	33	52	
107,160	4.070	21	11	7	5	3	2	1	33	52	
107,083	4.048	52	27	20	11	6	4	2	32	52	
106,999	4.034	52	21	14	6	4	3	2	33	52	
106,908	3.990	84	41	26	12	6	3	2	33	52	km 106 = 1038m
106,829	3.976	47	22	17	10	7	5	4	33	52	
106,761	4.041	35	19	13	5	2	2	2	33	52	
106,680	3.998	101	45	32	15	8	6	4	33	52	
106,600	4.048	36	18	13	6	4	3	2	33	52	
106,521	4.019	73	39	28	13	6	5	3	33	52	
106,441	4.005	36	16	11	6	4	3	2	33	52	
106,359	4.041	80	35	20	7	2	2	2	33	52	
106,280	4.026	35	18	12	6	4	2	2	33	52	
106,200	4.012	53	26	20	10	5	3	2	32	52	
106,118	4.012	77	36	25	12	4	3	2	32	52	
106,040	3.998	87	43	30	13	5	3	2	32	52	
105,962	4.034	39	21	16	9	5	3	2	33	52	km 105 = 1000m
105,880	4.005	76	40	25	10	4	2	2	33	52	
105,798	4.019	41	21	15	8	4	3	2	32	52	
105,721	4.005	89	42	28	12	5	3	2	32	52	
105,640	4.019	74	38	25	11	5	3	2	33	52	
105,560	4.026	55	26	19	10	5	3	3	33	52	
105,479	4.026	56	26	19	9	5	3	2	32	52	
105,402	4.062	35	20	15	10	5	4	2	33	52	
105,322	4.048	45	19	13	7	5	3	2	33	52	
105,240	4.034	60	24	15	9	6	4	3	33	52	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
105,160	4.062	31	15	11	7	4	4	3	33	52	
105,080	4.048	44	21	15	9	5	3	2	33	52	
105,000	4.019	63	29	19	8	5	3	2	33	52	
104,921	4.034	54	26	18	10	6	4	3	33	52	km 104 = 1014m
104,841	4.048	42	22	14	6	4	3	3	34	52	
104,759	4.034	44	21	16	9	5	4	3	34	52	
104,680	4.055	33	15	11	7	5	4	3	33	52	
104,597	4.070	29	16	12	7	4	3	2	34	52	
104,517	4.062	34	16	11	7	5	4	2	34	52	
104,442	4.041	47	20	13	7	4	3	2	35	52	
104,363	4.019	42	21	16	9	6	4	2	34	52	
104,283	4.048	39	18	13	7	4	3	2	34	52	
104,202	4.070	42	23	12	5	3	3	2	34	52	
104,120	4.019	32	14	9	5	3	2	2	35	52	
104,040	4.048	28	14	11	7	5	5	3	35	52	
103,960	3.983	47	23	16	10	5	4	3	35	52	km 103 = 990m
103,880	4.041	39	19	14	8	5	4	3	35	52	
103,800	3.976	54	26	19	10	5	4	3	35	52	
103,719	4.048	36	18	14	8	5	3	2	35	52	
103,639	4.012	37	16	11	7	4	4	3	35	52	
103,562	4.005	66	29	19	10	6	4	3	35	52	
103,481	4.026	49	19	14	9	6	4	3	35	52	
103,401	4.048	43	20	14	9	5	4	3	35	52	
103,320	4.034	48	23	16	9	5	3	3	35	52	
103,240	4.012	77	36	24	11	5	3	2	35	52	
103,157	4.026	55	23	16	10	6	5	3	35	52	
103,078	4.012	33	16	13	7	4	3	3	35	52	
103,000	4.041	35	16	10	6	4	3	3	36	52	
102,919	4.019	58	25	16	10	6	4	3	35	52	km 102 = 1010m
102,839	4.019	61	25	19	12	7	4	3	35	52	
102,758	3.998	69	31	23	10	5	3	2	35	52	
102,677	4.041	49	22	15	8	5	4	2	36	52	
102,601	4.026	43	17	11	5	3	3	2	35	52	
102,521	4.048	40	18	13	6	4	3	2	36	52	
102,441	4.026	52	23	15	7	5	4	2	35	52	
102,361	4.012	34	15	10	4	3	2	2	36	52	
102,279	4.005	29	12	8	6	3	3	3	35	52	
102,200	4.048	32	16	11	6	3	2	2	36	52	
102,120	3.990	72	38	21	5	1	1	1	36	52	
102,039	4.034	27	16	14	7	3	2	1	36	52	
101,880	4.019	88	40	25	10	3	2	1	35	52	km 101 = 994m
101,798	3.983	80	30	10	2	1	1	1	35	52	
101,718	4.034	28	12	7	3	2	2	1	35	52	
101,640	4.041	32	15	9	4	3	2	2	35	52	
101,559	4.070	26	12	8	5	3	2	1	35	52	
101,479	4.005	28	11	7	3	2	2	2	35	52	
101,399	4.026	37	16	12	7	3	3	2	35	52	
101,318	4.019	64	27	14	4	2	2	2	36	52	
101,237	4.055	25	13	10	6	3	2	2	35	52	
101,161	3.983	59	33	24	9	4	3	2	36	52	
101,080	4.034	35	14	9	4	2	2	1	35	52	
100,999	4.005	55	25	16	7	4	3	2	35	52	
100,920	4.012	59	25	18	9	4	3	3	35	52	km 100 = 1000m
100,840	4.005	32	15	10	5	4	3	2	35	52	
100,760	4.055	24	11	8	5	3	2	1	36	56	
100,680	4.005	42	19	15	6	3	2	2	36	56	
100,600	3.969	102	40	21	7	2	1	1	36	56	
100,519	3.990	69	32	21	7	2	2	2	36	56	
100,438	4.005	100	42	24	7	2	2	1	36	56	
100,360	3.983	92	41	26	9	4	2	2	36	56	
100,279	3.947	65	25	17	8	4	3	2	36	56	
100,199	3.983	47	22	17	8	5	2	2	37	56	
100,120	3.976	38	15	11	6	3	2	2	36	56	
100,040	3.983	55	24	15	7	3	2	2	36	56	
99,960	3.962	63	30	20	8	3	2	2	36	56	km 99 = 1000m
99,879	3.983	54	19	13	5	4	3	2	37	56	
99,801	3.983	103	40	22	8	4	2	1	36	56	
99,721	4.034	64	33	25	12	5	4	3	37	56	
99,640	3.998	96	42	29	14	7	5	4	37	56	
99,559	3.998	70	24	13	5	4	3	2	37	56	
99,479	3.998	54	27	20	9	3	2	1	37	56	
99,398	3.983	65	26	18	7	4	2	1	37	56	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
99,320	4.005	60	30	22	9	4	2	2	37	56	
99,240	3.990	63	36	23	8	4	2	2	37	56	
99,158	3.983	64	33	24	10	5	4	2	37	56	
99,077	3.990	46	17	10	5	4	4	3	37	56	
99,001	3.962	105	46	31	13	5	4	3	37	56	
98,921	3.983	39	17	13	7	5	4	3	37	56	km 98 = 1000m
98,843	3.998	68	34	21	8	4	3	3	38	56	
98,760	4.005	44	18	13	8	5	4	3	38	56	
98,679	4.019	34	15	10	5	3	2	2	37	56	
98,600	4.012	33	12	8	6	4	4	3	37	56	
98,521	4.026	37	16	12	7	5	3	2	37	56	
98,440	4.041	26	12	9	5	4	3	2	38	56	
98,359	4.005	59	26	17	7	3	3	2	37	56	
98,279	4.012	32	14	9	4	3	2	2	38	56	
98,198	4.019	49	21	14	7	4	3	2	37	56	
98,120	3.998	71	29	17	6	3	3	2	37	56	
98,041	4.012	28	13	10	5	3	3	2	38	56	
97,960	4.142	74	46	28	15	8	4	3	26	30	
97,960	4.180	49	28	16	9	5	3	3	26	30	km 97 = 1060m
97,882	4.188	27	17	10	5	3	2	2	27	30	
97,802	4.157	72	43	26	13	5	3	3	26	30	
97,720	4.157	35	24	15	8	4	3	3	26	30	
97,641	4.150	51	30	18	9	4	3	2	27	30	
97,559	4.127	54	30	18	9	5	3	3	27	30	
97,479	4.134	76	44	23	13	7	4	3	27	30	
97,399	4.112	81	51	28	8	4	2	2	27	30	
97,320	4.165	45	27	15	7	3	2	2	27	30	
97,238	4.119	71	49	29	14	6	3	3	28	30	
97,158	4.142	57	33	20	10	5	3	3	28	30	
97,080	4.165	62	40	23	13	7	5	3	27	27	
97,000	4.119	48	32	20	12	6	4	3	28	27	
96,920	4.119	50	33	20	11	5	3	3	28	27	km 96 = 942m
96,838	4.112	66	38	23	13	7	5	4	28	27	
96,760	4.150	30	17	10	6	4	2	2	28	27	
96,680	4.134	32	20	10	4	3	2	2	29	27	
96,599	4.157	34	23	14	8	5	3	2	29	27	
96,519	4.134	51	32	19	11	6	3	2	29	27	
96,439	4.081	71	45	27	15	8	4	3	29	27	
96,359	4.157	40	22	13	7	4	2	2	29	27	
96,277	4.119	43	29	18	11	6	3	2	29	27	
96,197	4.112	60	38	22	11	5	2	2	29	27	
96,120	4.096	41	25	14	8	4	2	2	30	27	
96,040	4.112	57	38	22	9	4	2	2	29	27	
95,960	4.112	49	28	15	6	3	2	2	30	27	km 95 = 1000m
95,879	4.089	62	34	19	8	4	2	2	30	27	
95,799	4.112	36	20	11	6	4	3	3	30	27	
95,720	4.081	37	15	8	5	3	2	2	30	27	
95,663	4.112	24	14	8	4	3	2	2	30	27	
95,580	4.127	23	14	9	6	4	3	2	30	27	
95,480	4.119	32	21	13	7	4	2	2	30	27	
95,400	4.119	28	16	9	5	3	2	2	30	27	
95,319	4.104	18	10	5	3	2	1	1	31	27	
95,239	4.104	45	29	13	5	3	2	1	30	27	
95,158	4.089	28	17	10	7	5	4	3	31	27	
95,077	4.089	51	27	13	8	5	3	2	31	27	
95,000	4.036	34	19	11	6	3	1	1	31	27	
94,919	4.104	45	28	17	10	5	2	2	31	27	km 94 = 1000m
94,838	4.081	56	37	23	13	7	4	3	31	27	
94,758	4.096	44	21	12	7	4	3	2	30	27	
94,677	4.089	48	31	20	12	6	4	3	30	27	
94,600	4.081	52	37	24	13	7	3	3	30	27	
94,520	4.081	70	41	25	12	5	3	2	30	27	
94,439	4.066	60	33	21	10	5	3	2	31	27	
94,359	4.058	68	43	25	13	6	3	3	31	27	
94,277	4.081	68	45	28	15	8	4	3	31	27	
94,197	4.081	47	28	16	8	4	3	2	31	27	
94,120	4.058	45	28	18	10	5	3	3	31	27	
94,041	4.081	43	28	17	9	5	3	2	31	27	
93,960	4.074	49	32	14	8	5	3	2	31	27	km 93 = 1000m
93,877	4.074	47	29	17	9	5	3	3	31	27	
93,799	4.074	42	25	14	7	4	3	2	31	27	
93,718	4.081	51	29	16	7	3	2	2	31	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
93,637	4.051	52	32	19	10	6	3	3	31	27	
93,558	4.081	45	29	18	10	5	3	2	31	27	
93,477	4.043	60	35	20	11	6	3	3	31	27	
93,399	4.051	33	20	12	8	5	4	3	31	27	
93,318	4.051	71	49	29	14	7	4	4	32	27	
93,239	4.074	38	24	15	8	5	3	2	32	27	
93,158	4.028	63	37	23	12	6	4	3	32	27	
93,077	4.081	45	28	12	7	5	3	3	32	27	
93,000	4.096	34	23	15	9	6	4	3	32	27	
92,919	4.066	32	21	14	9	5	2	1	32	27	km 92 = 1000m
92,838	4.074	41	22	12	8	4	2	1	32	27	
92,758	4.089	47	27	16	10	6	4	3	32	27	
92,678	4.089	46	26	15	8	5	3	3	32	27	
92,597	4.058	67	43	24	13	7	4	4	32	27	
92,520	4.081	42	26	15	8	4	2	2	32	27	
92,440	4.074	47	30	18	8	4	2	2	32	29	
92,360	4.104	29	17	10	5	3	2	2	32	29	
92,278	4.104	29	18	11	7	4	3	2	32	29	
92,198	4.074	43	23	14	8	4	2	1	32	29	
92,117	4.074	56	31	16	8	4	2	2	31	29	
92,040	4.066	56	35	20	10	4	2	2	32	29	
91,960	4.051	73	41	22	9	3	2	1	31	29	km 91 = 1000m
91,880	4.036	79	52	27	11	4	2	1	31	29	
91,799	4.081	37	23	13	6	3	2	2	31	29	
91,717	4.043	59	32	17	8	3	2	1	32	29	
91,637	4.051	52	33	19	9	4	3	2	31	29	
91,557	4.043	51	31	17	9	4	3	2	31	29	
91,477	4.036	40	25	16	10	5	3	2	31	29	
91,400	4.028	65	29	16	7	3	2	2	31	29	
91,321	4.036	64	38	18	7	3	2	1	32	29	
91,240	4.020	60	36	19	8	3	2	1	32	29	
91,158	4.020	111	33	7	3	1	1	1	31	29	
91,078	4.058	62	39	23	11	5	3	3	31	29	
91,000	4.066	40	28	17	9	5	3	2	32	29	
90,920	4.051	51	34	22	12	5	3	3	32	29	km 90 = 982m
90,840	4.051	60	44	27	14	6	3	3	32	29	
90,759	3.998	102	54	30	16	8	5	4	32	29	
90,678	4.013	67	47	31	17	10	6	4	32	29	
90,440	4.036	67	43	23	12	5	3	3	32	29	
90,359	3.990	98	65	36	18	8	4	4	32	29	
90,279	3.982	102	63	37	18	9	5	4	32	29	
90,198	4.036	77	56	33	16	7	4	3	33	29	
90,118	3.982	87	65	37	18	8	4	3	32	29	
90,037	3.982	79	42	24	12	6	4	4	32	29	
89,960	3.998	52	32	19	11	7	4	4	32	29	km 89 = 1000m
89,879	3.998	65	44	26	14	7	4	3	33	29	
89,799	3.975	72	49	30	16	8	5	4	33	29	
89,717	3.998	69	46	26	12	6	4	4	33	29	
89,638	3.960	88	53	26	11	5	3	3	32	29	
89,557	3.975	79	54	33	17	9	5	5	33	29	
89,477	3.967	93	62	36	17	8	4	4	33	29	
89,400	3.967	80	49	29	11	6	4	3	32	29	
89,322	4.028	13	11	9	8	6	4	3	33	29	
89,240	4.005	72	48	31	17	8	4	3	33	29	
89,160	3.990	77	42	20	9	4	2	2	33	29	
89,079	4.005	73	44	25	15	9	5	4	33	29	
89,000	3.937	84	55	33	20	10	5	4	33	29	
88,919	3.998	56	34	21	12	7	4	3	33	29	km 88 = 996m
88,839	4.028	34	23	15	10	6	4	3	33	29	
88,759	4.013	42	30	20	13	7	4	4	32	29	
88,678	4.043	41	30	20	12	6	4	3	32	29	
88,598	4.036	47	32	21	12	7	4	4	33	29	
88,517	4.005	41	28	19	12	7	4	4	32	29	
88,437	4.020	40	25	17	10	6	3	3	32	29	
88,360	3.998	48	31	20	11	6	4	4	32	29	
88,279	3.998	54	35	23	13	7	5	4	32	29	
88,198	4.020	55	39	26	16	9	5	5	32	29	
88,117	4.020	45	32	21	12	7	4	4	32	29	
88,027	4.028	55	34	23	14	8	5	4	32	29	
87,960	4.005	53	34	23	14	9	5	5	32	29	km 87 = 1000m
87,879	4.020	42	31	22	14	8	5	4	32	29	
87,799	4.005	48	33	23	14	8	5	4	32	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
87,717	4.036	37	26	17	11	7	4	4	32	29	
87,637	4.036	37	26	18	12	7	4	3	32	29	
87,560	3.990	52	33	23	14	9	5	4	32	29	
87,480	3.998	38	25	18	12	8	6	5	32	29	
87,400	3.998	50	35	25	17	11	6	5	32	29	
87,318	3.960	64	41	28	17	10	6	5	32	29	
87,241	4.028	37	26	19	13	8	5	4	32	29	
87,157	3.998	43	31	23	15	9	6	5	32	29	
87,080	3.982	46	31	22	14	8	5	5	32	29	
87,000	3.975	54	34	24	17	11	7	5	32	29	
86,921	3.998	42	32	23	15	9	6	5	31	29	km 86 = 1000m
86,839	3.998	50	35	24	15	9	5	5	32	29	
86,758	3.975	46	30	20	14	9	6	5	32	29	
86,678	3.967	52	34	21	14	9	6	5	32	29	
86,600	3.982	48	30	21	14	9	6	5	32	29	
86,520	4.020	40	28	19	12	8	5	5	31	29	
86,439	4.013	49	32	21	13	8	5	4	32	29	
86,359	3.982	46	31	21	14	9	5	5	31	29	
86,278	3.990	41	29	22	15	10	6	5	31	29	
86,197	4.005	41	29	20	13	8	5	4	31	29	
86,110	4.013	50	33	23	15	9	6	5	31	29	
86,028	4.020	48	30	20	13	8	5	4	31	29	
85,960	3.990	67	49	33	20	11	6	5	31	29	km 85 = 1016m
85,879	3.944	84	56	39	23	12	7	6	31	29	
85,798	3.944	61	43	29	18	9	5	4	31	29	
85,717	3.975	61	42	28	17	9	5	5	31	29	
85,637	4.005	43	28	18	10	6	4	4	31	29	
85,558	3.967	61	40	25	15	10	6	5	31	29	
85,480	3.982	63	37	23	14	9	5	5	31	29	
85,399	3.990	63	39	24	13	7	4	3	31	29	
85,318	3.975	58	42	27	16	9	5	5	32	29	
85,238	3.944	72	49	31	18	10	6	4	32	29	
85,157	3.967	58	38	24	13	6	4	3	32	29	
85,080	3.982	59	39	23	12	5	3	2	32	29	
85,000	4.013	90	46	36	20	11	7	5	36	31	km 84 = 988m
84,920	3.871	102	70	46	19	10	6	5	36	31	
84,841	4.069	62	34	26	14	8	6	5	36	31	
84,761	4.013	51	25	20	12	8	6	4	36	31	
84,679	4.061	57	32	26	14	8	6	5	36	31	
84,599	3.982	97	45	34	16	9	7	5	36	31	
84,518	4.005	95	39	27	14	8	6	5	35	31	
84,442	4.029	92	42	29	15	9	7	5	35	31	
84,361	4.053	43	21	18	12	8	7	5	35	31	
84,281	4.013	94	47	31	15	8	6	5	35	31	
84,200	4.021	61	30	23	14	9	7	5	35	31	
84,119	4.037	69	37	27	14	8	6	5	35	31	
84,039	3.974	73	36	26	15	9	7	6	35	31	
83,959	4.061	55	29	23	15	10	8	6	34	31	km 83 = 1008m
83,882	4.037	69	40	32	18	10	8	6	34	31	
83,800	4.061	50	26	22	14	10	7	6	34	31	
83,722	4.029	77	42	35	21	15	12	9	33	31	
83,642	4.061	74	37	24	12	8	7	6	34	31	
83,561	4.069	51	27	22	13	10	8	6	34	31	
83,480	4.005	87	39	28	15	9	8	6	34	31	
83,400	4.029	84	40	30	16	11	9	6	33	31	
83,322	4.037	71	35	27	16	11	8	6	34	31	
83,243	4.029	78	40	29	17	11	9	6	33	31	
83,163	4.061	32	17	15	10	7	6	4	33	31	
83,081	3.997	89	41	25	14	9	7	6	34	31	
83,000	4.069	33	23	17	13	10	7	4	34	31	km 82 = 995m
82,920	4.013	85	37	25	11	7	6	5	33	31	
82,838	4.053	70	40	29	15	8	6	6	33	31	
82,759	4.013	62	32	25	14	9	7	5	33	31	
82,678	4.029	57	31	24	14	8	7	5	33	31	
82,597	4.084	37	19	15	11	7	5	4	33	31	
82,517	4.029	43	21	17	10	6	4	3	33	31	
82,442	3.997	61	28	23	15	10	7	5	34	31	
82,361	4.045	68	35	27	15	9	6	5	33	31	
82,281	4.045	56	29	24	15	9	6	4	33	31	
82,198	4.069	40	22	18	11	7	5	4	33	31	
82,119	4.069	64	37	28	14	6	4	3	34	31	
82,037	4.045	50	25	19	11	6	4	2	34	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
81,960	4.021	44	24	20	11	7	5	3	34	31	km 81 = 1000m
81,882	4.037	42	22	18	10	5	3	2	34	31	
81,799	4.037	55	30	23	11	3	2	2	34	31	
81,722	4.005	55	25	19	11	6	4	3	34	31	
81,642	4.037	58	31	22	11	6	5	4	34	31	
81,560	4.053	50	28	21	13	8	5	4	33	31	
81,480	4.092	9	6	5	4	3	3	2	33	31	
81,400	4.076	14	7	7	6	4	3	2	34	31	
81,318	4.076	12	9	7	5	4	3	2	34	31	
81,239	4.092	14	11	8	7	5	4	3	34	31	
81,158	4.061	14	12	9	6	5	4	3	34	31	
81,078	4.076	16	13	8	7	5	3	3	34	31	
80,994	4.069	12	10	8	6	5	4	3	34	31	km 80 = 1000m
80,919	4.076	18	13	10	9	6	4	3	34	31	
80,842	4.045	12	9	7	6	4	4	3	34	31	
80,762	4.076	16	12	10	8	6	5	3	34	31	
80,680	4.069	21	15	14	11	9	7	5	34	31	
80,600	4.069	24	18	16	13	10	7	5	34	31	
80,520	4.069	22	18	16	12	10	7	5	34	31	
80,439	4.053	28	23	21	16	13	10	6	34	31	
80,358	4.029	19	16	14	11	9	8	5	34	31	
80,282	4.037	23	20	16	13	10	8	6	34	31	
80,200	4.037	29	21	19	15	10	7	4	34	31	
80,118	4.061	17	13	12	11	9	7	6	35	31	
80,040	3.982	32	24	21	16	12	9	6	34	31	
79,960	4.037	16	14	11	10	8	7	5	35	31	km 79 = 1000m
79,882	4.037	17	14	12	10	8	7	5	34	31	
79,799	4.092	11	10	8	7	6	5	4	34	31	
79,723	4.037	19	17	14	11	9	8	5	35	31	
79,642	4.061	17	15	12	10	8	7	5	34	31	
79,561	3.997	18	15	12	11	8	7	5	34	31	
79,480	4.037	19	17	14	12	9	8	6	34	31	
79,401	4.053	16	14	12	9	8	6	5	34	31	
79,319	4.021	17	13	11	10	7	6	5	34	31	
79,239	4.045	14	10	9	8	7	6	4	34	31	
79,158	4.037	12	10	8	7	6	6	4	34	31	
79,080	4.053	12	10	8	8	7	6	5	34	31	
79,000	4.045	10	10	8	7	6	5	4	34	31	
78,922	4.045	11	9	7	6	6	5	4	34	31	km 78 = 1000m
78,841	4.045	12	10	9	8	6	5	4	35	31	
78,761	4.045	12	10	8	7	6	6	4	35	31	
78,680	4.045	13	11	9	8	7	6	4	34	31	
78,600	4.053	10	8	7	6	5	5	3	35	31	
78,519	4.045	8	6	5	4	4	4	3	35	31	
78,440	4.037	13	9	7	7	5	5	3	32	31	
78,360	4.045	12	8	7	6	5	4	3	32	31	
78,279	4.045	9	5	4	4	3	2	2	32	31	
78,199	4.084	12	7	7	6	4	3	2	32	31	
78,117	4.061	16	12	10	9	7	6	4	32	31	
78,037	4.013	42	26	26	19	11	7	5	33	31	
77,962	3.997	45	28	27	18	11	7	4	33	31	km 77 = 1000m
77,882	3.990	53	31	28	16	11	6	5	33	31	
77,801	3.974	45	26	25	18	12	7	5	33	31	
77,721	4.021	36	27	24	18	12	7	5	33	31	
77,640	4.013	62	36	32	21	13	8	5	33	31	
77,559	4.021	44	29	29	21	13	8	5	34	31	
77,479	4.037	41	25	24	17	11	7	5	33	31	
77,397	4.053	41	33	25	19	12	7	5	34	31	
77,322	4.045	39	32	25	19	12	8	5	34	31	
77,241	4.069	30	24	22	17	13	10	7	33	31	
77,159	3.990	39	31	27	18	12	8	6	33	31	
77,080	3.990	45	36	27	21	14	9	6	34	31	
77,000	4.029	59	32	30	21	13	8	6	33	31	
76,920	4.021	46	27	26	18	12	8	6	34	31	km 76 = 1000m
76,838	3.990	66	38	37	23	14	8	5	33	31	
76,760	4.005	29	17	16	13	8	6	4	34	31	
76,681	3.982	36	23	23	18	11	6	4	34	31	
76,600	4.061	29	22	18	13	8	5	3	33	31	
76,520	4.053	29	22	18	13	9	6	3	34	31	
76,437	4.013	50	36	32	22	16	10	6	34	31	
76,359	4.005	70	40	39	26	14	7	3	34	31	
76,280	4.061	32	17	15	9	4	1	1	33	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
76,198	4,053	52	31	29	20	12	7	4	33	31	
76,122	4,045	42	25	24	17	11	7	5	34	31	
76,041	3,990	71	41	40	28	14	6	2	34	31	
75,962	4,061	28	17	16	11	7	4	2	34	31	km 75 = 1000m
75,881	4,045	23	14	14	10	6	3	1	33	31	
75,801	4,061	41	24	23	14	8	3	1	34	31	
75,720	4,005	60	39	38	24	15	8	5	34	31	
75,640	4,076	16	8	7	6	4	4	3	34	31	
75,559	4,045	36	22	20	14	8	4	2	34	31	
75,478	4,045	26	14	14	9	5	2	1	34	31	
75,398	4,037	48	28	26	18	11	6	4	34	31	
75,322	3,997	46	22	19	12	7	5	4	34	31	
75,243	4,061	30	17	17	11	7	3	1	33	31	
75,163	4,029	38	21	19	14	9	6	4	33	31	
75,082	4,053	28	16	15	11	7	4	2	34	31	
75,000	4,037	30	18	18	14	10	6	4	34	31	
74,919	4,061	12	10	8	6	5	5	3	34	31	km 74 = 1000m
74,838	4,053	28	17	17	12	8	5	3	34	31	
74,758	3,997	23	12	12	7	5	2	1	34	31	
74,680	4,045	31	19	17	11	6	3	1	33	31	
74,598	4,029	41	23	21	13	7	3	1	33	31	
74,520	4,053	16	12	9	8	7	4	3	33	31	
74,443	4,037	37	26	22	18	12	8	5	33	31	
74,362	4,029	20	14	11	9	7	5	4	33	31	
74,278	4,053	22	17	13	10	7	5	3	33	31	
74,200	4,045	18	10	10	7	5	2	1	33	31	
74,121	4,045	35	18	17	11	6	2	1	33	31	
74,040	4,029	25	19	15	11	8	6	4	33	31	
73,960	4,053	21	13	13	10	7	4	3	33	31	km 73 = 1000m
73,880	4,045	23	12	11	7	4	3	1	33	31	
73,800	4,045	21	12	12	8	5	3	1	34	31	
73,719	4,061	12	8	6	5	4	3	3	33	31	
73,640	4,069	18	9	9	7	4	2	1	34	31	
73,559	4,037	47	28	26	17	9	6	4	33	31	
73,481	3,982	38	30	24	17	13	9	6	34	31	
73,400	3,990	43	21	20	14	10	6	4	33	31	
73,320	4,021	29	15	13	8	4	2	1	34	31	
73,241	4,021	26	13	12	7	3	1	0	34	31	
73,159	4,013	20	9	8	5	3	1	0	34	31	
73,078	4,045	26	15	15	11	7	5	3	34	31	
73,000	4,045	18	10	9	6	4	2	1	34	31	
72,920	4,069	11	5	4	3	1	0	0	34	31	km 72 = 1000m
72,837	4,076	18	10	10	8	5	3	2	33	31	
72,758	4,061	26	19	15	11	8	5	3	34	31	
72,680	4,069	19	10	9	6	3	1	0	34	31	
72,600	4,069	30	17	16	12	6	3	1	34	31	
72,514	4,037	24	17	14	11	8	6	4	33	31	
72,438	3,997	29	16	14	9	4	2	1	34	31	
72,359	4,021	40	22	22	15	9	5	2	33	31	
72,278	4,013	37	23	23	17	12	8	5	33	31	
72,198	4,029	27	14	13	9	5	3	1	33	31	
72,120	4,037	27	19	16	11	7	4	1	33	31	
72,041	4,061	23	12	11	8	3	1	0	33	31	
71,880	4,053	41	22	20	13	6	2	0	33	31	km 71 = 894m
71,800	4,084	16	8	8	6	4	2	1	34	31	
71,718	4,021	39	29	24	17	12	8	4	33	31	
71,636	3,974	68	35	32	24	14	9	5	33	31	
71,557	4,037	32	19	18	12	7	3	1	33	31	
71,482	4,013	16	10	9	5	2	1	0	33	31	
71,401	4,045	13	7	6	4	3	2	1	33	31	
71,322	4,061	16	7	5	3	2	2	1	33	31	
71,240	4,029	40	24	23	16	9	5	3	34	31	
71,160	4,005	36	20	18	12	6	3	2	33	31	
71,078	4,045	29	18	17	12	8	5	3	34	31	
71,000	3,997	25	14	14	10	7	4	2	34	31	
70,919	3,997	45	22	19	11	6	4	2	33	31	km 70 = 1000m
70,839	3,966	28	16	14	8	6	3	2	33	31	
70,758	4,021	29	16	15	11	7	4	2	33	31	
70,678	4,005	20	16	12	10	8	5	4	33	31	
70,598	4,037	14	7	6	5	3	3	2	33	31	
70,517	4,045	15	12	9	8	5	5	3	33	31	
70,440	4,005	25	13	13	9	6	4	2	33	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
70,363	3,982	49	30	29	21	14	10	6	33	31	
70,281	3,990	42	33	28	22	15	9	5	33	31	
70,202	4,029	27	21	17	13	10	7	4	33	31	
70,122	4,037	31	19	18	11	7	4	1	33	31	
70,042	4,053	16	9	8	6	4	2	1	33	31	
69,960	4,069	20	12	12	9	6	4	2	35	33	km 69 = 973m
69,879	4,005	26	15	14	10	6	4	2	35	33	
69,800	4,053	24	13	12	8	4	2	1	34	33	
69,720	4,045	15	8	7	4	2	1	0	35	33	
69,639	4,061	11	5	5	3	2	1	0	35	33	
69,559	4,037	22	12	12	9	6	4	3	35	33	
69,479	4,076	16	9	8	7	5	3	2	35	33	
69,399	4,045	22	14	14	11	8	6	3	35	33	
69,317	4,084	11	6	6	5	4	2	2	35	33	
69,237	4,037	24	19	16	13	9	6	4	35	33	
69,160	4,061	18	9	9	7	5	3	2	35	33	
69,071	4,076	13	7	7	6	4	3	2	35	33	
69,000	4,061	19	14	12	11	8	7	4	35	33	
68,920	4,076	15	11	10	8	6	5	4	35	33	km 68 = 994m
68,838	4,045	21	17	15	12	10	7	5	35	33	
68,759	4,061	13	8	7	7	5	4	3	35	33	
68,678	4,061	12	9	8	7	5	4	3	35	33	
68,600	4,076	10	6	6	5	4	4	3	35	33	
68,519	4,084	13	9	8	7	6	5	3	36	33	
68,437	4,069	13	9	8	7	6	5	3	36	33	
68,358	4,076	18	14	13	10	8	6	4	36	33	
68,278	4,061	20	15	13	10	7	5	3	36	33	
68,199	4,053	26	20	17	13	9	6	4	35	33	
68,119	4,013	35	25	19	17	10	5	3	36	33	
68,040	4,037	14	9	8	6	5	4	3	36	33	
67,960	4,029	10	7	6	5	4	4	3	36	33	km 67 = 1000m
67,880	4,045	12	8	7	6	5	5	3	36	33	
67,798	4,045	14	10	8	7	5	4	3	36	33	
67,718	4,029	19	15	13	11	9	6	4	36	33	
67,639	4,045	20	14	13	10	8	6	4	36	33	
67,559	4,045	14	10	9	7	6	4	3	36	33	
67,477	4,069	12	9	8	6	5	3	3	36	33	
67,399	4,037	20	16	15	12	9	7	5	36	33	
67,319	4,053	14	10	9	8	6	5	3	36	33	
67,238	4,045	10	7	7	6	5	3	3	36	33	
67,157	4,061	11	8	7	6	5	3	3	36	33	
67,070	4,053	10	8	7	5	4	3	3	36	33	
67,000	4,037	10	7	6	6	4	3	2	36	33	
66,917	4,029	11	6	6	6	4	4	3	36	33	km 66 = 1000m
66,839	4,053	14	10	9	7	6	5	3	36	33	
66,757	4,069	10	6	6	5	4	3	2	35	33	
66,678	4,061	10	6	5	4	4	3	2	36	33	
66,600	4,013	14	9	9	7	6	5	3	36	33	
66,519	4,045	9	6	5	4	3	3	2	36	33	
66,439	4,037	11	7	6	5	4	3	2	36	33	
66,358	4,029	12	7	7	5	4	3	2	36	33	
66,279	4,037	13	9	8	7	5	4	3	36	33	
66,200	4,029	11	7	6	5	4	2	2	36	33	
66,119	4,005	25	19	17	13	9	7	4	36	33	
66,039	4,037	14	10	9	7	6	5	4	36	33	
65,959	4,029	16	12	11	9	8	7	4	35	33	km 65 = 1000m
65,879	4,037	15	11	10	9	7	6	4	35	33	
65,798	4,053	17	13	12	10	8	7	5	35	33	
65,717	4,029	16	12	10	8	7	5	4	35	33	
65,640	4,021	18	13	12	10	8	6	4	35	33	
65,478	4,045	12	8	7	6	5	4	3	35	33	
65,398	4,045	16	11	10	9	6	5	3	35	33	
65,318	4,045	11	8	7	7	5	4	3	35	33	
65,237	4,045	17	13	11	9	7	6	4	35	33	
65,160	4,037	22	17	15	12	10	7	5	35	33	
65,080	4,029	16	12	10	9	7	5	3	35	33	
65,000	4,037	16	13	12	10	8	6	4	35	33	
64,919	4,037	28	21	18	15	11	7	4	35	33	km 64 = 1000m
64,839	4,005	29	22	19	16	12	8	5	35	33	
64,759	4,013	37	28	24	19	13	9	5	35	33	
64,678	4,037	21	17	15	12	10	8	5	35	33	
64,600	4,005	22	17	15	13	10	7	4	35	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
64,519	4,053	17	13	12	10	9	7	5	35	33	
64,439	4,069	19	14	13	10	9	6	4	35	33	
64,358	4,037	14	11	10	8	7	6	4	35	33	
64,278	4,013	13	10	9	8	7	5	4	35	33	
64,200	4,037	15	11	10	9	6	5	3	35	33	
64,120	4,037	15	12	11	9	7	6	4	35	33	
64,040	4,029	20	17	15	12	10	7	5	35	33	
63,959	4,013	21	16	15	13	10	8	5	35	33	km 63 = 1000m
63,878	4,021	17	13	11	9	8	6	4	35	33	
63,798	4,021	17	12	10	9	7	6	4	35	33	
63,717	4,029	14	12	10	8	6	5	3	35	33	
63,640	4,029	20	14	12	10	8	6	4	35	33	
63,557	4,037	13	10	9	8	6	5	3	35	33	
63,479	4,029	15	9	8	8	5	4	3	35	33	
63,400	4,037	15	11	10	8	7	5	4	35	33	
63,320	4,037	15	11	10	8	6	5	3	35	33	
63,240	4,021	18	14	12	11	9	6	4	35	33	
63,158	4,045	13	11	10	8	7	5	4	35	33	
63,078	4,013	15	10	9	8	7	5	4	34	33	
63,000	4,021	21	16	14	11	9	6	4	34	33	
62,918	3,974	44	32	27	20	13	8	4	35	33	km 62 = 1000m
62,839	4,013	9	7	6	5	5	4	3	35	33	
62,760	3,997	7	6	5	4	3	2	2	35	33	
62,683	4,037	12	8	7	5	5	4	3	34	33	
62,603	4,029	27	21	18	14	10	7	4	34	33	
62,520	4,029	16	12	10	8	6	5	3	34	33	
62,442	4,005	17	12	12	11	8	5	4	35	33	
62,362	3,974	17	12	10	8	6	5	3	35	33	
62,281	4,005	17	12	10	9	6	5	3	35	33	
62,201	3,990	21	15	13	11	9	7	5	35	33	
62,121	4,013	28	19	17	14	10	7	5	35	33	
62,039	4,029	17	12	11	9	8	6	4	35	33	
61,960	4,029	11	8	7	7	5	5	3	35	33	km 61 = 1000m
61,881	4,005	16	12	11	9	7	5	4	34	33	
61,800	4,021	17	12	10	9	7	6	4	35	33	
61,720	4,013	15	11	9	9	7	5	4	34	33	
61,640	4,021	11	9	8	7	6	5	4	34	33	
61,558	3,990	22	12	11	8	7	5	4	34	33	
61,478	4,013	22	17	16	15	10	6	5	34	33	
61,400	4,005	25	16	14	12	9	7	4	35	33	
61,321	4,045	17	12	11	8	7	5	3	34	33	
61,240	4,037	17	11	9	8	6	4	3	34	33	
61,158	4,029	14	10	9	7	6	5	3	34	33	
61,078	3,997	24	19	17	15	11	8	5	33	33	
61,000	4,029	19	16	13	11	9	7	5	34	33	
60,987	4,029	15	11	10	9	7	6	4	34	33	km 60 = 1113m
60,919	4,013	19	13	12	9	7	6	4	34	33	
60,837	4,037	18	15	13	11	9	7	4	34	33	
60,758	4,029	11	9	8	7	6	5	3	34	33	
60,677	4,029	12	9	8	7	6	4	3	34	33	
60,600	4,037	12	9	8	6	6	4	3	34	33	
60,519	4,029	14	10	9	8	6	5	3	34	33	
60,438	4,021	24	18	16	12	10	7	4	34	33	
60,358	4,013	23	17	15	12	9	7	5	34	33	
60,277	4,005	17	11	10	9	7	6	4	34	33	
60,200	3,997	28	19	17	14	11	8	5	34	33	
60,118	4,021	20	14	13	11	9	7	5	34	33	
60,040	4,013	11	8	7	6	5	4	3	34	33	
59,961	4,037	15	11	10	8	6	5	4	34	33	km 59 = 1000m
59,880	3,997	22	14	13	10	9	6	5	34	33	
59,798	3,990	18	12	11	9	7	6	5	34	33	
59,717	3,997	38	30	26	20	14	9	5	34	33	
59,640	3,966	23	16	13	11	8	6	4	34	33	
59,558	3,997	24	17	14	11	8	6	4	34	33	
59,478	4,005	18	13	12	9	7	5	4	34	33	
59,397	4,029	15	11	10	8	6	5	3	34	33	
59,320	4,021	18	14	11	8	6	5	3	34	33	
59,240	3,997	28	20	16	12	9	6	4	34	33	
59,160	4,029	18	14	12	9	7	6	4	34	33	
59,079	4,013	9	5	5	4	4	4	3	34	33	
59,000	4,037	9	6	6	5	4	4	3	34	33	
58,920	4,013	14	10	9	8	7	5	4	34	33	km 58 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 470,5 ao km 0,0						DATA: fev/2007			
PISTA: Decrescente		FAIXA: Simples									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
58,839	4.053	10	8	7	6	5	4	3	34	33	
58,758	4.069	9	7	7	6	5	4	3	34	33	
58,677	4.061	11	9	8	7	5	4	3	34	33	
58,600	4.061	8	6	5	4	3	3	2	34	33	
58,520	4.053	7	5	4	3	2	2	1	34	33	
58,439	4.045	19	13	11	8	6	4	3	33	33	
58,278	4.021	28	22	19	14	11	8	6	33	33	
58,197	4.053	11	7	6	5	4	3	2	33	33	
58,120	4.053	11	8	7	6	4	3	2	33	33	
58,040	4.045	13	9	7	6	4	3	2	33	33	
57,960	4.021	19	11	8	7	5	4	3	33	33	km 57 = 1000m
57,878	4.053	13	8	6	5	4	4	3	33	33	
57,797	4.045	15	10	8	6	5	3	3	33	33	
57,719	4.021	14	9	7	6	5	4	3	33	33	
57,640	4.061	18	13	11	9	7	5	3	33	33	
57,559	4.037	14	10	9	8	6	5	3	33	33	
57,478	4.061	14	9	8	6	5	4	3	33	33	
57,400	4.029	15	9	7	6	4	3	2	33	33	
57,320	4.053	14	10	8	7	5	3	2	32	33	
57,240	4.045	14	10	9	8	6	5	3	32	33	
57,158	4.037	15	10	9	7	6	4	3	33	33	
57,080	4.037	14	11	9	8	7	5	4	32	33	
57,000	4.021	15	11	9	8	6	5	3	32	33	
56,920	4.013	16	9	8	7	5	3	3	32	33	km 56 = 1000m
56,839	4.021	16	9	8	7	5	4	3	32	33	
56,759	4.029	13	9	8	7	6	4	4	32	33	
56,677	3.997	18	12	10	9	7	5	4	32	33	
56,597	4.069	15	11	9	7	6	5	4	32	33	
56,520	4.037	13	10	9	8	6	6	4	32	33	
56,439	4.037	10	7	6	5	4	4	3	33	33	
56,360	4.045	13	8	7	6	5	4	3	33	33	
56,279	4.021	11	8	7	6	5	5	3	32	33	
56,198	4.037	9	6	6	5	4	4	3	33	33	
56,118	4.037	11	6	5	5	4	4	3	33	33	
56,037	4.029	10	7	7	6	5	4	3	32	33	
55,960	4.013	12	9	8	7	6	4	4	33	33	km 55 = 1000m
55,880	4.005	17	13	11	10	7	6	4	32	33	
55,799	4.005	17	13	11	9	8	6	5	32	33	
55,719	4.013	16	11	9	8	7	5	4	33	33	
55,639	4.021	15	11	10	9	7	6	4	33	33	
55,560	3.997	18	13	11	9	7	5	4	33	33	
55,480	3.974	19	15	13	11	8	6	4	32	33	
55,399	3.997	14	10	9	8	6	5	3	33	33	
55,320	4.037	11	8	7	6	5	4	3	33	33	
55,239	4.021	14	7	7	6	5	4	2	32	33	
55,158	4.013	17	10	10	8	6	5	3	33	33	
55,079	4.005	16	9	9	7	5	4	3	33	33	
55,000	4.013	12	7	6	5	4	2	2	33	33	
54,918	3.997	16	9	9	7	6	4	3	33	33	km 54 = 1000m
54,839	4.021	17	10	10	8	6	4	3	33	33	
54,759	3.974	14	8	8	7	5	4	2	33	33	
54,678	3.997	15	7	7	4	4	2	2	33	33	
54,597	4.005	10	6	6	4	3	2	1	33	33	
54,516	4.045	10	5	5	4	3	2	1	33	33	
54,460	4.037	10	5	5	4	3	2	1	33	33	
54,362	4.029	14	8	8	6	4	3	2	33	33	
54,280	4.013	11	6	6	5	4	3	2	33	33	
54,199	4.045	11	7	6	4	4	3	2	33	33	
54,118	4.037	25	21	19	15	12	9	6	33	33	
54,038	4.021	26	20	18	15	12	9	6	33	33	
53,960	4.005	31	25	22	18	13	9	6	33	33	km 53 = 1000m
53,878	3.997	22	17	14	12	9	6	4	33	33	
53,799	3.997	29	22	18	15	11	8	6	34	33	
53,719	4.005	25	17	14	11	9	6	4	34	33	
53,638	4.005	17	12	10	8	6	5	3	34	33	
53,557	3.997	12	9	8	7	5	4	3	34	33	
53,477	4.013	11	8	6	5	4	4	3	34	33	
53,397	4.005	17	9	8	6	5	4	3	34	33	
53,318	4.029	12	7	6	5	4	3	2	34	33	
53,237	4.029	14	11	10	8	7	5	4	34	33	
53,160	4.053	12	8	7	5	5	4	3	34	33	
53,083	4.045	12	8	7	6	5	4	3	34	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
53,000	4.005	13	10	9	7	6	5	4	34	33	
52,918	4.037	13	9	8	7	6	5	4	34	33	km 52 = 1000m
52,840	4.029	13	10	9	8	7	5	4	34	33	
52,759	4.029	13	10	8	7	6	4	3	33	33	
52,678	4.005	16	10	9	7	6	5	4	34	33	
52,598	4.021	16	11	9	8	6	5	4	34	33	
52,518	4.037	14	9	8	6	6	5	4	33	33	
52,437	4.045	15	10	9	8	6	5	4	33	33	
52,360	3.997	14	8	7	6	6	4	3	34	33	
52,282	3.990	14	10	9	7	7	6	4	33	33	
52,200	4.029	14	8	7	6	4	3	3	33	33	
52,120	4.021	14	9	8	7	6	5	3	33	33	
52,038	4.037	13	8	6	5	5	5	3	33	33	
51,960	4.058	10	7	6	5	5	3	3	32	29	km 51 = 1000m
51,880	4.036	10	8	7	6	5	4	3	31	29	
51,800	4.051	13	9	8	7	6	4	4	32	29	
51,720	4.058	12	9	8	7	6	4	4	32	29	
51,640	4.074	11	8	7	6	5	4	3	32	29	
51,558	4.066	12	9	8	7	6	4	4	31	29	
51,479	4.013	12	8	7	7	5	4	3	32	29	
51,397	4.043	9	7	6	5	4	3	2	32	29	
51,317	4.028	10	8	7	6	5	4	3	32	29	
51,240	4.051	15	12	11	9	7	5	4	33	29	
51,160	4.043	17	12	11	9	8	5	4	33	29	
51,080	4.036	13	9	8	7	6	4	3	33	29	
51,000	4.051	13	10	8	7	6	4	4	33	29	
50,919	4.036	15	11	9	8	6	4	4	33	29	km 50 = 1000m
50,838	4.013	15	12	9	8	7	4	4	33	29	
50,758	4.020	12	8	7	6	5	3	3	33	29	
50,678	4.043	12	9	8	7	6	4	4	33	29	
50,600	4.020	9	7	6	5	5	3	3	34	29	
50,522	4.051	7	5	4	4	3	2	1	33	29	
50,442	4.020	15	10	9	8	7	5	5	33	29	
50,362	4.020	10	6	5	4	3	2	2	33	29	
50,282	4.028	7	5	4	4	3	2	2	33	29	
50,200	4.020	7	6	5	4	3	2	2	34	29	
50,121	4.013	9	6	5	4	3	2	2	33	29	
50,041	4.028	8	6	5	4	4	3	2	33	29	
49,960	4.036	9	6	5	4	4	3	2	34	29	km 49 = 1000m
49,878	4.028	8	5	4	3	3	2	1	33	29	
49,799	4.028	9	6	5	4	4	2	2	34	29	
49,719	4.043	8	6	4	4	3	2	2	34	29	
49,638	4.020	10	5	4	4	3	2	2	34	29	
49,560	4.020	7	6	4	4	3	2	1	34	29	
49,477	4.013	8	5	5	4	3	2	2	34	29	
49,401	4.028	10	7	6	5	4	3	2	34	29	
49,321	4.036	9	6	5	4	3	2	2	34	29	
49,240	4.081	7	5	4	3	2	2	1	34	29	
49,160	4.089	8	6	5	4	3	2	2	34	29	
49,079	4.058	8	6	5	4	4	2	2	33	29	
48,999	4.005	8	5	4	4	3	2	1	33	29	
48,918	4.020	7	5	4	3	3	2	1	33	29	km 48 = 993m
48,837	4.051	11	8	7	6	5	3	3	33	29	
48,760	4.043	10	7	6	5	4	3	3	33	29	
48,679	4.058	8	6	5	4	3	2	1	33	29	
48,597	4.058	7	5	4	3	3	2	1	33	29	
48,517	4.051	8	6	5	4	4	3	2	33	29	
48,438	4.036	9	6	5	4	3	2	2	33	29	
48,360	4.051	8	6	5	4	3	2	2	33	29	
48,280	4.051	8	6	5	4	3	2	2	33	29	
48,200	4.066	7	5	4	4	3	2	2	33	29	
48,118	4.066	8	7	6	5	4	3	3	33	29	
48,039	4.051	7	6	5	5	4	2	1	33	29	
47,960	4.043	9	7	6	6	5	3	3	33	29	km 47 = 1013m
47,879	4.043	8	6	5	5	4	3	3	33	29	
47,798	4.074	10	8	7	6	5	3	3	33	29	
47,718	4.066	10	8	7	7	5	4	4	33	29	
47,630	4.036	11	9	8	7	6	4	4	33	29	
47,557	4.051	11	8	7	7	6	4	4	33	29	
47,480	4.028	12	9	8	7	6	4	4	33	29	
47,397	4.058	12	9	8	7	6	4	3	33	29	
47,317	4.058	9	6	5	5	4	3	3	33	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
47,240	4,043	13	10	9	8	7	5	4	33	29	
47,160	4,028	11	9	8	7	6	4	4	33	29	
47,080	4,036	11	9	8	7	6	5	4	33	29	
46,999	4,066	11	7	7	6	5	4	4	33	29	
46,907	4,043	9	6	6	5	4	3	3	33	29	km 46 = 1006m
46,836	4,058	9	6	6	5	4	3	3	33	29	
46,760	4,066	7	5	4	4	3	2	2	34	29	
46,679	4,058	8	6	5	5	4	3	2	34	29	
46,599	4,074	5	4	3	3	3	2	1	34	29	
46,518	4,074	6	4	4	4	3	2	2	34	29	
46,437	4,043	8	7	6	5	4	3	2	34	29	
46,360	4,043	14	11	9	9	7	5	4	34	29	
46,282	4,043	15	12	11	9	7	5	4	34	29	
46,198	4,051	11	7	6	6	5	3	3	34	29	
46,117	4,051	9	6	5	5	4	3	2	35	29	
46,037	4,043	9	7	7	6	5	4	4	35	29	
45,960	4,317	12	8	7	7	6	4	4	35	31	km 45 = 1000m
45,878	4,332	9	6	5	5	4	3	3	35	31	
45,799	4,309	10	6	6	5	4	3	3	35	31	
45,720	4,286	7	5	4	3	3	2	1	35	31	
45,641	4,286	12	10	9	8	7	5	5	35	31	
45,561	4,248	13	11	10	9	8	6	5	35	31	
45,480	4,302	12	9	9	8	7	5	5	36	31	
45,400	4,279	12	8	7	6	6	4	4	36	31	
45,319	4,286	10	6	5	4	3	2	2	35	31	
45,238	4,264	12	7	6	5	5	3	2	35	31	
45,157	4,241	7	6	6	6	5	3	3	36	31	
45,077	4,233	11	6	5	4	4	3	2	36	31	
44,996	4,233	9	7	5	5	4	3	3	36	31	
44,997	4,226	9	7	6	5	4	3	2	35	31	km 44 = 1043m
44,960	4,226	12	10	8	7	6	4	4	35	31	
44,878	4,248	11	8	8	7	6	5	4	35	31	
44,800	4,195	13	11	10	9	8	5	5	35	31	
44,719	4,226	17	13	12	11	10	7	7	35	31	
44,639	4,286	14	10	9	8	7	5	5	35	31	
44,557	4,256	17	13	12	11	9	6	6	34	31	
44,478	4,271	10	6	6	5	4	3	3	35	31	
44,398	4,256	18	13	11	9	8	5	4	35	31	
44,320	4,264	10	6	5	5	4	3	3	35	31	
44,240	4,271	11	9	7	7	5	4	3	34	31	
44,161	4,256	17	12	10	9	7	4	3	35	31	
44,079	4,271	12	7	6	5	4	3	2	34	31	
44,000	4,271	9	6	6	5	4	3	3	34	31	
43,998	4,256	9	6	6	5	4	3	3	34	31	
43,920	4,248	9	7	6	6	5	4	3	34	31	km 43 = 963m
43,841	4,203	14	10	9	7	6	4	3	34	31	
43,759	4,210	11	7	6	5	4	3	3	34	31	
43,679	4,226	13	8	7	6	5	4	3	34	31	
43,599	4,203	12	8	7	6	5	4	3	34	31	
43,519	4,195	12	8	7	6	5	3	3	34	31	
43,438	4,218	13	10	9	7	6	4	4	34	31	
43,360	4,210	11	8	7	6	6	4	4	34	31	
43,280	4,256	13	10	9	8	7	5	5	34	31	
43,199	4,210	12	9	8	7	7	5	4	34	31	
43,160	4,279	13	11	9	8	7	5	4	33	31	
43,080	4,264	12	9	8	7	6	4	4	33	31	
43,000	4,279	14	10	9	8	6	4	4	33	31	
42,919	4,271	11	8	7	7	6	4	4	33	31	km 42 = 1000m
42,838	4,241	11	8	7	7	6	4	4	33	31	
42,758	4,264	11	8	8	7	6	4	4	33	31	
42,678	4,256	10	7	6	6	5	4	3	33	31	
42,598	4,256	10	7	6	5	5	3	3	33	31	
42,520	4,256	8	6	6	5	5	4	3	34	31	
42,438	4,271	8	6	5	5	4	3	3	34	31	
42,358	4,271	8	7	6	5	5	3	3	34	31	
42,280	4,226	16	12	11	10	9	6	5	33	31	
42,199	4,256	9	6	5	5	4	3	2	34	31	
42,119	4,256	9	6	5	5	4	3	2	34	31	
42,040	4,218	9	7	5	5	4	3	2	33	31	
41,959	4,218	10	7	6	5	5	4	3	32	31	km 41 = 992m
41,877	4,218	12	8	7	7	6	4	4	32	31	
41,799	4,203	9	7	5	5	4	3	2	32	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
41,717	4.180	9	6	5	5	4	3	3	32	31	
41,640	4.210	8	6	4	4	3	2	2	32	31	
41,559	4.241	10	7	6	5	5	3	3	32	31	
41,478	4.226	11	8	7	6	5	3	3	33	31	
41,397	4.233	9	7	6	5	5	3	3	33	31	
41,320	4.241	10	7	6	5	4	3	3	32	31	
41,243	4.203	11	9	8	7	5	3	3	32	31	
41,162	4.188	13	9	8	7	5	4	3	32	31	
41,081	4.188	13	9	8	7	6	4	3	32	31	
40,990	4.210	12	10	9	8	7	5	4	32	31	km 40 = 1107m
40,919	4.203	10	6	6	5	5	3	3	32	31	
40,920	4.210	10	8	7	7	5	4	3	32	31	
40,838	4.218	11	8	8	7	6	4	3	32	31	
40,757	4.241	12	10	9	8	7	5	4	32	31	
40,680	4.203	10	8	7	6	5	4	4	32	31	
40,601	4.180	17	11	10	8	6	4	3	33	31	
40,519	4.203	9	7	6	5	4	3	3	32	31	
40,438	4.172	11	8	6	6	5	4	3	33	31	
40,380	4.226	15	12	11	11	9	6	5	33	31	
40,280	4.271	7	6	5	4	4	3	2	33	31	
40,199	4.218	10	7	6	5	4	3	3	33	31	
40,117	4.210	10	7	7	6	5	3	3	33	31	
40,037	4.218	11	9	7	6	5	4	3	33	31	
39,960	4.157	18	16	14	13	11	7	6	33	31	km 39 = 1000m
39,877	4.210	15	11	11	9	8	6	5	33	31	
39,798	4.188	10	8	7	6	5	4	3	33	31	
39,720	4.180	12	9	8	7	6	4	4	33	31	
39,637	4.180	20	14	13	12	10	7	6	33	31	
39,559	4.203	12	7	6	6	5	3	3	33	31	
39,477	4.203	13	10	9	8	7	5	5	33	31	
39,397	4.210	12	10	9	8	7	5	5	34	31	
39,320	4.210	11	9	9	8	7	5	4	34	31	
39,240	4.218	12	10	9	8	7	5	4	34	31	
39,160	4.226	13	8	7	6	5	3	3	34	31	
39,077	4.226	12	10	8	7	6	4	4	34	31	
38,991	4.181	8	6	5	5	4	4	3	26	31	km 38 = 1000m
38,920	4.142	10	10	8	7	7	6	4	27	31	
38,839	4.118	9	8	7	5	5	5	4	27	31	
38,759	4.134	11	8	7	7	5	5	3	27	31	
38,677	4.103	13	11	9	8	7	6	4	26	31	
38,598	4.079	27	18	16	11	7	5	3	27	31	
38,519	4.103	21	13	12	8	5	3	2	27	31	
38,439	4.118	14	10	9	7	5	3	2	27	31	
38,358	4.111	14	10	9	7	5	4	3	27	31	
38,277	4.056	17	11	10	7	5	3	2	27	31	
38,198	4.111	12	8	8	6	4	3	2	28	31	
38,118	4.095	23	16	14	11	7	5	3	28	31	
38,039	4.087	18	11	10	8	6	4	3	27	31	
37,879	4.048	36	25	24	18	13	8	5	28	31	km 37 = 904m
37,799	4.048	37	32	27	20	14	9	6	28	31	
37,719	4.056	36	26	25	20	14	10	6	28	31	
37,640	4.056	18	12	11	9	7	5	4	28	31	
37,561	4.064	30	20	18	13	8	6	4	28	31	
37,479	4.040	40	27	25	16	10	7	4	28	31	
37,399	4.048	21	14	11	8	5	3	2	28	31	
37,319	4.087	32	21	18	12	7	4	3	28	31	
37,238	4.095	27	18	17	12	8	6	4	28	31	
37,158	4.009	45	31	30	23	15	10	6	28	31	
37,078	4.040	28	20	19	16	11	8	5	28	31	
37,000	4.048	30	20	19	15	11	8	6	28	31	
36,919	4.033	29	19	18	14	10	7	5	28	31	km 36 = 1000m
36,839	4.056	27	19	18	14	10	7	5	29	31	
36,758	4.072	29	19	18	14	9	6	4	28	31	
36,679	4.048	24	17	16	12	8	5	3	29	31	
36,599	4.064	31	20	19	14	9	5	3	29	31	
36,520	4.095	24	16	16	12	8	5	3	29	31	
36,440	4.095	27	18	17	13	8	5	3	29	31	
36,361	4.079	31	23	21	18	11	6	4	29	31	
36,280	4.048	35	24	23	17	13	9	6	29	31	
36,199	4.072	20	14	13	11	6	4	3	29	31	
36,119	4.079	45	29	25	16	10	6	3	29	31	
36,039	4.079	29	19	17	11	7	4	3	29	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
35,958	4.103	34	22	20	13	8	5	3	29	31	km 35 = 1000m
35,878	4.001	37	26	23	15	9	5	4	30	31	
35,802	3.978	44	28	25	18	12	8	6	30	31	
35,720	3.986	52	36	33	24	15	10	6	30	31	
35,640	4.025	39	27	25	18	11	10	6	30	31	
35,559	4.040	37	26	25	19	12	7	5	30	31	
35,479	4.033	49	32	29	18	11	7	5	30	31	
35,398	3.978	51	33	30	20	12	7	5	30	31	
35,318	4.025	46	29	26	19	12	8	6	30	31	
35,237	4.040	34	22	19	13	8	6	5	30	31	
35,157	4.017	34	20	18	13	9	6	5	30	31	
35,077	4.017	31	19	17	12	8	5	4	30	31	
35,000	4.009	39	24	21	15	10	7	5	30	31	
34,919	4.001	28	18	17	12	8	5	3	30	31	km 34 = 1000m
34,839	4.048	18	11	9	5	3	1	0	30	31	
34,758	4.033	20	13	12	8	4	2	1	30	31	
34,678	4.048	32	20	18	12	7	3	1	30	31	
34,600	4.033	37	24	20	13	6	2	0	29	31	
34,520	4.033	26	17	16	10	6	3	1	29	31	
34,440	4.048	17	10	9	6	2	1	0	30	31	
34,360	4.048	17	11	10	8	4	1	1	30	31	
34,280	4.001	21	13	13	9	5	3	1	30	31	
34,199	4.048	20	14	13	9	6	4	2	30	31	
34,121	4.025	13	8	7	4	3	2	1	30	31	
34,039	3.994	17	11	10	7	4	3	2	31	31	
33,959	4.033	16	10	9	6	4	2	2	30	31	km 33 = 1000m
33,880	4.025	22	13	11	7	4	2	1	30	31	
33,800	4.033	21	13	10	8	3	2	1	30	31	
33,721	4.048	35	20	15	8	3	1	1	30	31	
33,640	4.017	24	15	12	7	4	2	2	30	31	
33,560	3.986	29	18	15	10	5	2	1	30	31	
33,480	3.970	23	15	13	8	6	4	3	30	31	
33,399	4.001	29	18	16	14	8	6	5	30	31	
33,317	3.994	36	20	15	9	5	3	3	30	31	
33,239	4.048	26	13	10	5	3	3	2	30	31	
33,159	4.017	26	13	9	6	3	3	2	30	31	
33,077	4.033	28	16	13	7	5	3	2	30	31	
33,000	4.048	23	15	12	7	4	3	2	30	31	
32,919	4.033	28	19	15	10	6	5	3	30	31	km 32 = 1000m
32,839	4.033	24	14	12	7	5	4	3	30	31	
32,759	4.025	26	16	13	8	5	3	3	30	31	
32,679	4.033	32	20	17	12	8	6	4	30	31	
32,600	4.033	31	20	18	13	8	6	4	30	31	
32,523	4.040	27	18	16	10	7	4	3	30	31	
32,442	4.017	23	14	12	9	6	4	3	31	31	
32,361	4.048	25	16	13	9	6	4	2	30	31	
32,281	4.064	27	15	12	8	5	3	2	30	31	
32,200	4.072	34	21	16	10	6	5	3	30	31	
32,120	4.072	28	18	15	10	6	4	3	30	31	
32,040	4.072	25	19	18	13	9	6	4	30	31	
31,960	4.087	20	13	12	9	5	3	2	29	31	km 31 = 1000m
31,879	4.064	28	19	16	12	7	4	3	29	31	
31,799	4.056	25	16	14	10	7	4	3	29	31	
31,719	4.064	27	18	15	11	7	4	3	29	31	
31,638	4.079	31	22	20	16	10	8	4	29	31	
31,558	4.033	34	23	22	17	11	7	5	29	31	
31,477	4.048	39	26	24	19	13	9	6	29	31	
31,400	4.048	35	25	23	16	11	7	5	29	31	
31,318	4.056	30	20	18	13	8	6	4	29	31	
31,241	4.064	27	18	16	11	7	5	3	29	31	
31,161	4.048	26	18	16	11	8	5	4	29	31	
31,081	4.040	32	21	20	14	9	6	4	29	31	
31,000	4.079	25	18	16	11	7	5	3	29	31	
30,918	4.072	31	21	19	14	9	6	4	29	31	km 30 = 1000m
30,839	4.064	35	24	22	16	10	7	4	30	31	
30,758	4.048	50	32	29	20	12	8	5	30	31	
30,678	4.009	37	23	20	14	9	7	5	30	31	
30,597	4.033	32	20	17	11	6	3	2	30	31	
30,518	4.048	24	16	14	9	6	4	3	30	31	
30,442	4.017	38	23	20	13	8	5	3	30	31	
30,361	4.040	37	24	21	14	8	5	4	30	31	
30,281	4.017	44	31	29	21	13	8	6	30	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
30,200	3.986	61	38	34	22	13	8	6	30	31	
30,120	3.986	49	31	28	19	12	8	6	30	31	
30,039	4.048	28	18	16	11	7	5	3	30	31	
29,962	3.978	22	13	12	9	6	4	3	0	3	km 29 = 1000m
29,882	4.064	36	21	19	12	8	5	3	0	3	
29,801	4.040	26	15	14	10	6	5	3	0	3	
29,721	3.986	50	33	28	19	11	7	4	0	3	
29,640	3.970	56	38	34	25	15	11	6	30	29	
29,559	4.009	33	22	20	13	9	6	4	30	29	
29,479	4.001	35	24	22	15	10	4	3	30	29	
29,398	3.994	35	23	22	17	10	6	3	30	29	
29,317	3.962	39	25	24	16	10	6	4	30	29	
29,241	3.962	57	30	25	17	9	6	4	30	29	
29,162	3.994	34	22	21	16	10	7	5	30	29	
29,082	3.994	41	28	27	20	13	8	5	30	29	
29,000	3.978	38	22	19	14	8	5	3	30	29	
28,920	3.978	56	34	28	19	10	7	5	31	29	km 28 = 1000m
28,839	3.962	38	22	18	13	8	6	4	31	29	
28,759	4.040	44	24	21	13	8	6	4	31	29	
28,678	3.986	36	23	21	15	10	7	5	31	29	
28,598	4.025	27	18	16	13	8	5	3	31	29	
28,521	4.025	19	12	11	7	4	3	2	31	29	
28,442	4.009	29	16	13	8	4	3	2	31	29	
28,359	4.025	21	10	9	6	4	2	2	31	29	
28,281	4.009	20	12	10	6	4	3	2	30	29	
28,198	4.009	20	12	10	8	6	3	2	31	29	
28,117	4.025	25	16	15	10	6	4	3	30	29	
28,040	3.978	26	17	15	11	7	5	3	30	29	
27,962	4.025	23	13	12	7	5	2	2	30	29	km 27 = 1000m
27,882	4.017	20	12	10	7	4	3	2	30	29	
27,800	3.970	22	14	12	8	5	2	2	30	29	
27,721	4.033	23	16	14	9	5	3	2	30	29	
27,640	4.064	24	14	13	8	5	3	2	30	29	
27,560	4.064	33	21	18	12	7	4	2	29	29	
27,480	4.009	45	26	22	15	9	5	3	29	29	
27,398	4.009	41	24	22	14	8	5	3	29	29	
27,320	4.040	36	21	16	10	5	3	2	29	29	
27,242	3.994	36	23	20	14	7	3	2	29	29	
27,160	3.994	35	23	17	11	6	3	2	0	3	
27,080	4.009	30	17	15	8	4	2	1	0	3	
27,000	4.064	35	22	20	13	7	4	2	0	3	
26,919	4.064	36	23	22	16	10	6	3	0	3	km 26 = 1000m
26,839	3.947	44	30	30	22	14	8	5	0	3	
26,759	4.017	38	25	23	17	11	7	5	29	29	
26,678	3.970	36	24	22	16	10	7	4	29	29	
26,597	4.033	36	22	20	14	9	6	4	29	29	
26,517	3.986	46	31	29	20	13	8	5	30	29	
26,437	4.017	42	28	27	18	12	8	5	30	29	
26,360	4.001	52	32	27	19	14	11	8	29	29	
26,279	3.978	51	29	26	18	11	7	5	29	29	
26,201	4.040	43	28	26	19	12	8	5	29	29	
26,121	3.994	51	31	28	18	10	7	5	30	29	
26,041	4.025	53	32	26	17	11	7	5	29	29	
25,960	4.140	55	29	24	16	10	6	4	28	32	km 25 = 1000m
25,877	4.211	35	24	22	17	9	5	3	28	32	
25,799	4.203	39	25	22	14	8	5	3	27	32	
25,722	4.195	33	22	21	15	9	5	2	28	32	
25,641	4.203	18	11	9	7	3	2	1	28	32	
25,560	4.163	26	16	13	8	4	3	2	28	32	
25,482	4.179	29	18	15	10	6	4	3	28	32	
25,402	4.148	26	16	14	9	5	3	2	28	32	
25,321	4.155	37	24	21	14	8	5	3	27	32	
25,241	4.155	36	25	23	17	11	6	4	28	32	
25,161	4.116	45	27	24	17	10	7	5	28	32	
25,080	4.108	47	30	27	18	13	9	6	28	32	
25,000	4.155	42	28	25	18	13	10	7	28	32	
24,920	4.179	38	25	23	16	11	8	6	28	32	km 24 = 1010m
24,840	4.171	38	25	23	18	12	8	6	28	32	
24,759	4.171	43	30	27	20	12	8	6	28	32	
24,680	4.140	55	35	30	19	12	8	6	28	32	
24,598	4.155	52	33	28	19	12	6	5	28	32	
24,518	4.187	44	31	28	20	13	9	6	28	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
24,437	4.179	50	34	31	21	13	9	6	28	32	
24,359	4.179	46	29	25	19	13	9	6	28	32	
24,282	4.171	50	32	28	19	11	8	6	28	32	
24,201	4.179	49	34	32	23	15	10	7	28	32	
24,120	4.148	62	39	32	19	12	8	6	28	32	
24,039	4.155	57	40	38	27	18	12	7	28	32	
23,959	4.155	42	29	26	19	12	9	6	28	32	km 23 = 992m
23,879	4.163	44	30	27	19	13	8	6	28	32	
23,799	4.179	60	39	34	23	14	9	7	28	32	
23,718	4.163	49	35	32	25	15	10	7	28	32	
23,642	4.179	46	29	26	19	12	8	6	28	32	
23,560	4.187	33	23	21	16	10	7	5	28	32	
23,480	4.155	59	37	31	21	12	8	5	28	32	
23,400	4.140	40	29	27	20	13	9	6	28	32	
23,319	4.132	55	36	32	23	15	8	6	28	32	
23,238	4.148	47	32	29	22	14	9	6	28	32	
23,160	4.124	52	32	28	19	12	9	6	28	32	
23,078	4.148	35	24	21	18	9	6	4	29	32	
23,000	4.132	35	24	23	17	11	8	5	28	32	km 22 = 1000m
22,920	4.132	37	27	25	18	12	7	6	29	32	
22,839	4.148	35	23	21	15	10	7	5	29	32	
22,759	4.148	43	30	28	21	13	8	5	29	32	
22,677	4.132	30	20	18	15	8	6	4	29	32	
22,597	4.187	20	12	10	6	4	2	2	29	32	
22,522	4.171	26	17	15	10	6	4	2	29	32	
22,441	4.155	33	19	17	11	7	4	2	29	32	
22,358	4.163	24	16	14	10	6	4	3	29	32	
22,280	4.108	53	29	24	17	10	6	4	29	32	
22,199	4.163	26	16	14	13	7	6	4	29	32	
22,118	4.163	30	20	18	12	8	5	4	29	32	
22,030	4.148	32	19	14	11	6	2	2	29	32	km 21 = 1000m
21,957	4.163	26	17	15	11	7	5	3	29	32	
21,882	4.092	36	19	15	10	6	3	2	29	32	
21,800	4.108	27	17	15	10	7	4	3	29	32	
21,719	4.084	44	29	25	20	11	5	4	29	32	
21,639	4.084	61	39	33	26	14	8	5	29	32	
21,559	4.092	35	22	21	15	9	6	5	29	32	
21,478	4.108	32	22	20	13	8	5	3	29	32	
21,397	4.108	31	20	17	13	7	3	3	29	32	
21,322	4.100	43	30	27	19	11	6	4	29	32	
21,241	4.053	40	27	24	19	12	7	5	29	32	
21,160	4.092	27	19	17	12	9	7	5	29	32	
21,079	4.108	38	24	22	15	9	6	3	29	32	
21,000	4.069	45	28	25	19	10	7	4	29	32	km 20 = 1000m
20,919	4.092	46	29	25	18	11	7	4	29	32	
20,839	4.108	39	25	23	17	11	7	5	29	32	
20,762	4.140	40	23	19	14	8	6	4	29	32	
20,682	4.132	23	15	13	10	6	4	3	29	32	
20,601	4.116	36	24	21	14	8	5	3	29	32	
20,520	4.100	24	16	14	10	6	3	2	29	32	
20,441	4.116	16	10	8	6	4	2	2	29	32	
20,357	4.148	14	9	8	6	4	2	2	29	32	
20,278	4.155	13	8	7	5	3	2	1	29	32	
20,199	4.108	17	11	9	5	3	2	1	29	32	
20,118	4.124	22	13	10	8	4	2	2	29	32	
20,039	4.124	19	12	10	6	4	3	2	29	32	km 19 = 961m
19,960	4.140	23	15	14	9	6	4	3	29	32	
19,879	4.116	23	16	15	12	8	5	3	29	32	
19,799	4.116	18	13	13	10	8	6	4	29	32	
19,720	4.084	19	14	14	11	8	5	4	29	32	
19,640	4.092	20	14	14	11	8	6	4	29	32	
19,561	4.076	31	22	21	16	12	8	5	28	32	
19,479	4.100	36	27	26	20	14	9	6	29	32	
19,399	4.069	40	27	25	18	12	8	5	29	32	
19,319	4.084	25	18	17	14	10	7	5	29	32	
19,239	4.092	45	30	28	20	13	9	6	29	32	
19,157	4.076	27	23	19	17	12	10	7	29	32	
19,068	4.108	20	17	14	12	10	8	6	29	32	
19,000	4.092	21	17	14	12	10	7	5	29	32	km 18 = 1000m
18,919	4.116	18	16	13	11	9	7	5	29	30	
18,838	4.092	26	23	19	16	12	8	6	29	30	
18,759	4.116	43	35	28	21	15	10	7	29	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
18,677	4155	17	15	13	10	8	7	5	29	30	
18,598	4148	21	19	16	13	10	8	5	29	30	
18,517	4076	32	27	22	18	13	9	6	29	30	
18,437	4076	60	45	32	21	13	9	7	29	30	
18,357	4069	46	35	27	21	14	9	6	29	30	
18,282	4108	48	40	32	23	15	11	7	29	30	
18,201	4100	45	36	29	22	14	10	7	29	30	
18,120	4140	21	18	15	13	10	8	6	29	30	
18,040	4140	22	19	16	13	10	7	5	29	30	
17,960	4132	17	15	13	11	9	6	5	29	30	km 17 = 1000m
17,879	4124	16	14	12	10	7	5	4	29	30	
17,798	4163	14	11	9	8	5	4	2	29	30	
17,717	4132	13	10	8	6	4	3	2	29	30	
17,637	4171	13	10	8	7	4	3	2	29	30	
17,562	4132	14	11	9	7	5	4	2	30	30	
17,480	4140	16	12	10	7	6	4	3	30	30	
17,400	4155	21	18	14	14	7	4	3	30	30	
17,319	4140	19	16	11	9	6	3	2	30	30	
17,238	4155	13	10	8	6	5	4	3	30	30	
17,159	4140	15	12	11	9	7	6	4	31	30	
17,080	4140	12	11	9	8	6	5	4	30	30	
17,000	4116	12	11	9	8	6	5	4	30	30	
16,919	4132	14	11	9	8	5	4	2	31	30	km 16 = 1000m
16,837	4132	17	16	13	10	9	8	6	31	30	
16,758	4124	13	12	10	8	7	6	4	31	30	
16,678	4140	14	11	9	7	6	4	3	31	30	
16,600	4140	8	6	5	4	3	3	2	31	30	
16,520	4124	17	15	12	10	8	6	4	31	30	
16,439	4108	18	18	15	14	10	8	6	31	30	
16,358	4108	19	15	13	10	8	6	4	31	30	
16,280	4140	18	16	13	12	9	7	4	31	30	
16,198	4116	31	26	21	19	13	10	7	31	30	
16,117	4116	18	16	13	11	9	7	5	31	30	
16,040	4092	24	22	18	16	13	10	8	31	30	
15,961	4124	15	14	13	13	9	6	4	32	30	km 15 = 1000m
15,881	4140	15	12	10	8	6	5	3	32	30	
15,800	4100	16	13	11	9	7	5	3	31	30	
15,720	4092	18	15	12	9	7	5	3	32	30	
15,640	4076	21	16	13	11	8	5	3	32	30	
15,559	4092	20	16	14	12	10	8	6	31	30	
15,478	4061	20	15	13	10	9	6	5	31	30	
15,399	4069	17	13	12	10	8	7	5	31	30	
15,318	4084	17	13	12	11	9	7	5	31	30	
15,237	4076	27	22	19	16	13	11	7	31	30	
15,159	4100	16	14	12	10	9	7	5	31	30	
15,077	4076	25	19	16	12	9	7	5	31	30	
15,000	4076	22	15	13	11	9	7	5	31	30	
14,920	4092	23	18	15	12	9	7	5	31	30	km 14 = 1032m
14,839	4037	53	40	30	20	14	8	5	31	30	
14,759	4045	49	33	24	16	10	7	5	31	30	
14,679	4100	39	29	22	15	10	7	4	31	30	
14,599	4092	31	25	20	15	11	8	5	31	30	
14,518	4076	27	20	17	13	10	6	5	31	30	
14,438	4069	27	23	19	16	12	9	6	31	30	
14,357	4092	27	24	20	17	12	9	6	31	30	
14,277	4037	43	34	28	23	16	11	7	31	30	
14,200	4061	36	29	24	19	14	10	7	31	30	
14,120	4069	30	24	20	16	11	9	6	31	30	
14,043	4076	33	26	21	16	12	8	5	31	30	
13,960	4069	46	36	29	23	14	9	5	31	30	km 13 = 1000m
13,880	4076	43	35	27	20	13	9	5	31	30	
13,800	4069	47	38	30	22	13	9	5	31	30	
13,719	4076	52	39	29	20	12	7	5	31	30	
13,639	4053	50	40	30	22	15	10	6	31	30	
13,558	4069	38	28	22	17	11	8	5	31	30	
13,480	4100	29	24	20	16	12	9	6	31	30	
13,402	4069	35	28	22	17	12	9	6	31	30	
13,322	4037	62	45	34	26	14	9	6	31	30	
13,241	4092	40	34	27	21	15	11	7	31	30	
13,161	4084	43	30	23	20	12	8	7	30	30	
13,080	4132	30	25	20	16	12	9	7	30	30	
13,000	4116	28	24	20	17	12	9	6	31	30	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
12,920	4212	30	25	22	18	14	9	7	24	26	km 12 = 1000m
12,840	4227	25	22	20	16	13	9	7	24	25	
12,760	4219	22	19	17	14	12	9	7	24	26	
12,679	4227	22	19	17	14	11	8	6	24	26	
12,597	4234	19	16	14	12	10	7	6	24	26	
12,518	4139	27	21	17	15	11	8	6	24	26	
12,440	4205	22	18	16	13	11	8	6	24	26	
12,359	4161	36	30	25	19	13	8	6	24	26	
12,279	4176	48	37	30	22	14	9	7	24	26	
12,197	4183	42	33	27	19	13	8	6	24	26	
12,118	4161	39	31	24	18	12	7	6	24	26	
12,040	4212	30	25	20	16	11	7	5	24	26	
11,960	4154	42	34	27	21	14	9	6	24	26	km 11 = 1000m
11,878	4219	29	23	19	15	10	6	5	24	26	
11,799	4168	31	26	21	16	12	7	5	24	26	
11,718	4168	41	34	27	20	13	7	5	24	26	
11,638	4161	35	28	24	18	13	8	6	24	26	
11,560	4161	36	29	24	19	13	8	6	24	26	
11,479	4154	28	23	19	15	11	7	5	24	26	
11,399	4183	32	27	22	18	13	9	6	24	26	
11,318	4146	33	27	23	19	13	9	7	24	26	
11,238	4190	27	22	17	13	9	6	4	24	26	
11,157	4198	12	10	8	6	5	3	3	24	26	
11,080	4219	12	9	7	5	3	2	2	24	26	
11,000	4219	19	15	12	9	6	3	3	24	26	
10,919	4161	33	20	15	11	7	5	4	24	27	km 10 = 1000m
10,838	4176	17	13	10	8	6	4	3	24	27	
10,758	4154	24	20	17	13	9	6	4	24	26	
10,677	4168	22	19	16	13	10	7	5	24	26	
10,597	4161	31	25	20	15	10	6	4	24	27	
10,518	4161	29	23	19	15	11	7	5	24	26	
10,437	4146	32	27	23	18	13	8	6	24	27	
10,360	4132	36	28	24	18	13	8	6	24	27	
10,279	4154	36	29	24	18	13	8	6	24	27	
10,200	4161	38	30	24	18	12	8	6	24	26	
10,118	4125	34	28	23	18	12	7	6	24	27	
10,037	4168	32	26	22	17	13	8	6	24	27	
9,962	4117	35	29	23	19	11	7	6	24	27	km 9 = 1000m
9,881	4168	31	26	21	17	12	8	6	24	27	
9,801	4161	32	27	23	18	13	9	6	24	27	
9,720	4168	31	24	20	15	10	6	5	24	26	
9,640	4146	36	30	24	18	12	7	4	24	26	
9,559	4154	23	19	16	13	9	6	4	24	27	
9,478	4161	35	28	22	16	10	6	4	24	27	
9,398	4168	20	16	13	10	7	5	4	24	27	
9,320	4161	14	11	9	7	5	4	3	24	27	
9,240	4168	27	19	15	11	7	5	4	24	27	
9,158	4198	11	9	7	6	5	3	3	24	27	
9,077	4161	20	15	12	9	5	3	2	24	27	
9,000	4183	14	10	8	6	4	2	2	24	27	
8,919	4146	45	29	20	12	6	3	2	24	27	km 8 = 1000m
8,826	4176	14	11	9	6	4	2	2	24	27	
8,760	4168	18	14	11	8	5	3	2	24	27	
8,679	4161	17	13	10	7	5	2	2	24	27	
8,600	4161	19	15	11	8	4	3	2	24	27	
8,517	4168	27	22	17	12	7	4	3	24	27	
8,440	4168	18	14	12	9	6	4	3	24	27	
8,359	4161	24	16	12	8	5	3	3	24	27	
8,278	4168	11	8	5	4	3	2	2	24	27	
8,197	4176	16	13	11	8	5	3	2	24	27	
8,120	4176	21	12	8	5	4	2	2	24	27	
8,040	4176	11	8	6	5	4	2	2	24	27	
7,960	4161	10	7	5	4	3	2	2	24	27	km 7 = 1000m
7,879	4176	12	10	7	6	4	2	2	24	27	
7,799	4176	9	6	5	4	3	2	2	24	27	
7,718	4161	10	8	6	4	2	2	1	24	27	
7,640	4183	11	8	6	5	3	2	1	24	28	
7,560	4176	9	6	5	4	3	2	1	24	28	
7,479	4154	10	7	6	4	3	2	1	24	27	
7,398	4146	16	11	9	6	4	2	2	24	28	
7,338	4168	8	6	4	3	2	2	2	24	28	
7,238	4176	10	7	5	4	2	2	1	24	28	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 470,5 ao km 0,0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Simples					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
7,157	4176	16	11	8	6	4	2	2	24	28	
7,080	4176	15	11	9	6	4	2	2	24	28	
7,000	4168	7	6	5	4	3	2	2	24	28	
6,920	4176	12	8	6	5	3	3	2	24	28	km 6 = 1000m
6,839	4176	13	9	7	5	4	2	2	24	28	
6,758	4146	13	10	8	6	4	3	2	24	28	
6,677	4146	26	19	15	11	7	4	3	24	28	
6,597	4146	17	13	10	8	6	3	2	24	28	
6,520	4161	14	11	9	7	5	3	2	24	28	
6,439	4154	14	11	9	7	4	3	2	24	28	
6,359	4176	12	9	7	5	4	3	2	24	28	
6,278	4176	11	9	7	5	4	2	2	24	29	
6,199	4146	14	11	8	6	4	3	3	24	29	
6,117	4161	19	15	12	9	6	4	3	25	28	
6,040	4154	13	10	7	5	3	2	2	25	29	
5,960	4154	19	15	12	9	6	3	2	25	28	km 5 = 993m
5,879	4146	21	16	12	9	5	3	2	25	28	
5,798	4117	19	14	11	8	5	3	2	25	29	
5,717	4125	30	22	17	12	7	4	2	25	29	
5,637	4117	24	19	15	11	7	4	3	25	29	
5,558	4139	29	23	18	14	8	4	3	25	29	
5,477	4146	26	19	15	11	6	4	3	25	29	
5,400	4139	29	21	15	10	6	3	2	25	29	
5,319	4117	31	22	18	13	8	3	2	25	29	
5,238	4161	19	15	12	9	6	3	2	25	29	
5,158	4146	16	13	10	8	5	3	2	25	29	
5,079	4125	21	17	14	10	6	4	3	25	30	
5,000	4168	19	15	12	8	6	3	2	25	29	
4,919	4154	15	10	8	6	4	3	2	25	29	km 4 = 1000m
4,839	4125	20	14	11	9	6	3	2	25	30	
4,758	4146	21	15	11	8	5	3	2	25	30	
4,678	4139	18	15	12	10	7	5	4	25	30	
4,597	4110	27	20	17	12	8	5	4	25	30	
4,518	4146	25	21	16	11	7	4	3	25	30	
4,437	4117	32	27	23	18	13	8	6	25	30	
4,359	4095	28	23	19	15	10	6	4	25	30	
4,278	4110	44	34	27	19	12	7	4	25	30	
4,198	4132	22	17	13	10	6	3	2	25	30	
4,117	4066	58	41	30	20	12	6	4	25	30	
4,037	4066	43	32	24	15	9	5	3	25	30	
3,960	4095	20	15	12	8	5	3	3	25	30	km 3 = 1000m
3,880	4146	17	13	11	9	6	4	3	25	31	
3,799	4154	21	16	13	10	7	4	3	25	31	
3,719	4146	25	19	16	12	8	5	3	25	31	
3,638	4117	38	32	27	22	16	10	7	25	31	
3,558	4132	28	22	18	15	11	7	6	25	31	
3,480	4095	38	32	25	20	13	8	5	25	31	
3,401	4154	29	24	19	13	7	3	2	25	31	
3,319	4154	14	11	9	8	6	4	3	25	31	
3,240	4139	14	10	7	5	3	2	1	25	31	
3,161	4125	26	20	15	11	7	4	3	25	31	
3,080	4132	17	16	13	11	8	5	3	25	31	
3,000	4103	30	26	22	19	14	9	7	25	31	
2,918	4125	32	21	15	11	7	5	4	25	31	km 2 = 1012m
2,839	4110	31	16	12	9	7	5	3	25	31	
2,758	4125	16	13	10	8	6	3	2	25	31	
2,678	4161	18	14	12	10	7	4	3	25	31	
2,597	4125	25	19	16	12	8	5	4	25	31	
2,520	4088	22	18	15	12	9	5	4	25	31	
2,440	4117	25	21	19	15	11	7	5	25	31	
2,360	4073	33	27	22	17	13	8	7	25	31	
2,278	4125	38	31	26	20	13	7	5	25	31	
2,197	4052	59	44	32	21	11	5	2	25	31	
2,120	4044	77	58	44	29	16	7	3	25	31	
2,039	4052	58	39	28	17	8	3	2	25	31	
1,960	4103	20	16	13	11	8	5	5	25	32	km 1 = 995m
1,879	4081	18	16	15	13	11	7	7	27	32	
1,799	4066	42	36	32	26	20	12	10	27	32	
1,720	4073	29	23	20	17	13	9	7	27	32	
1,640	4095	27	21	18	14	10	6	4	27	32	
1,558	4103	22	18	15	12	8	5	4	27	32	
1,478	4110	22	19	15	12	8	5	3	27	32	

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9							DATA: fev/2007		
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
596,999	4.305	38	27	21	15	9	6	4	73	34	
596,920	4.315	64	50	37	25	14	8	6	20	33	
596,839	4.340	66	45	27	14	7	4	2	20	33	
596,761	4.319	91	75	56	37	22	14	9	13	34	
596,679	4.313	57	45	37	28	16	11	8	20	35	
596,919	4.332	44	33	25	16	8	5	3	20	34	km 596 = 1000m
596,840	4.364	46	33	24	14	7	3	2	6	35	
596,757	4.394	41	28	20	10	4	2	2	73	33	
596,679	4.319	42	29	21	12	6	3	2	73	33	
596,601	4.389	40	30	23	13	5	4	3	20	34	
596,519	4.294	60	44	33	17	9	4	3	20	34	
596,438	4.360	59	42	26	16	6	4	2	20	35	
596,359	4.381	58	38	26	13	7	4	4	73	36	
596,280	4.398	30	21	15	9	4	3	2	20	36	
596,199	4.346	65	41	16	10	5	3	2	20	28	
596,121	4.367	75	46	26	10	4	2	2	73	34	
596,040	4.402	53	36	22	12	5	3	2	73	33	
595,961	4.367	17	13	11	8	5	3	2	73	28	km 595 = 1000m
595,882	4.346	51	36	28	18	11	8	5	20	39	
595,801	4.338	20	15	12	9	6	5	3	73	27	
595,719	4.236	55	36	30	22	16	11	8	13	35	
595,638	4.329	42	30	23	14	7	4	2	73	38	
595,559	4.337	30	20	14	7	4	3	2	20	37	
595,479	4.312	52	37	27	16	9	7	5	20	39	
595,397	4.319	70	46	33	20	11	7	5	73	40	
595,321	4.351	32	21	13	7	3	2	2	73	39	
595,241	4.340	34	23	16	8	5	4	3	66	37	
595,159	4.311	36	25	20	14	8	6	4	73	40	
595,079	4.335	18	13	10	7	4	3	2	20	40	
595,001	4.332	21	14	10	6	3	1	1	20	40	
594,921	4.308	24	20	18	15	12	9	7	20	37	km 594 = 1000m
594,841	4.297	18	14	12	8	5	3	2	20	33	
594,760	4.261	40	32	28	21	14	10	7	20	39	
594,679	4.323	22	19	18	15	11	8	5	73	37	
594,599	4.327	29	20	15	10	5	3	2	20	40	
594,519	4.307	41	27	19	11	6	3	2	20	39	
594,438	4.312	18	13	10	7	4	2	2	13	29	
594,360	4.317	32	21	16	9	4	3	2	73	34	
594,280	4.328	40	30	25	19	12	7	4	73	38	
594,200	4.247	53	39	30	19	12	8	5	13	38	
594,118	4.296	43	29	21	14	8	4	3	13	40	
594,040	4.309	34	23	17	10	4	2	2	20	40	
593,958	4.288	28	20	17	12	8	5	3	66	41	km 593 = 1280m
593,879	4.283	19	13	10	7	4	2	2	73	32	
593,799	4.298	56	39	27	17	8	5	3	20	39	
593,720	4.290	36	30	26	17	10	5	3	20	38	
593,640	4.280	33	24	19	12	8	5	3	20	36	
593,560	4.310	28	19	14	8	4	2	1	20	36	
593,480	4.307	26	19	14	9	4	2	1	73	36	
593,401	4.285	36	24	17	9	4	2	2	73	31	
593,319	4.309	38	26	19	12	5	3	2	13	29	
593,241	4.274	38	27	20	13	7	3	2	73	29	
593,161	4.328	22	17	14	9	6	4	3	20	34	
593,077	4.328	36	24	18	11	6	4	3	13	30	
592,999	4.307	30	23	19	13	8	5	4	20	32	km 592 = 1000m
592,920	4.326	19	15	12	8	5	3	2	13	30	
592,840	4.308	23	18	15	11	7	4	2	73	33	
592,761	4.290	25	19	16	11	7	5	3	13	28	
592,921	4.326	27	22	18	14	10	7	5	20	30	
592,840	4.253	44	34	28	19	13	8	6	73	29	
592,759	4.259	59	46	38	28	19	14	10	20	28	
592,681	4.220	54	38	30	17	10	5	3	20	34	
592,598	4.159	132	101	77	49	26	12	5	73	33	
592,519	4.282	102	81	67	49	30	15	5	20	29	
592,438	4.323	81	61	48	29	14	6	3	73	35	
592,360	4.359	29	21	17	11	7	4	2	20	36	
592,282	4.324	43	31	25	18	11	5	2	73	36	
592,199	4.326	39	32	27	20	12	7	4	73	35	
592,121	4.294	40	32	28	22	13	6	2	20	30	
592,039	4.323	42	34	30	23	17	11	7	73	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
591,961	4.355	45	38	32	24	17	11	6	73	31	km 591 = 1000m
591,881	4.323	49	39	33	25	17	11	7	20	36	
591,799	4.371	30	21	17	11	6	4	3	73	33	
591,721	4.351	23	18	16	12	8	5	4	20	30	
591,640	4.337	66	51	42	31	20	11	7	73	34	
591,560	4.355	49	38	33	25	18	12	8	73	35	
591,481	4.355	62	49	43	34	26	17	11	20	36	
591,398	4.334	49	38	31	22	13	9	6	20	39	
591,321	4.388	30	23	19	14	10	7	5	66	35	
591,240	4.355	26	19	16	12	8	6	4	73	39	
591,159	4.346	17	12	9	7	5	4	3	20	38	
591,079	4.313	14	10	8	5	4	3	2	13	33	
591,000	4.299	34	27	23	18	13	9	7	73	31	
590,919	4.334	17	13	11	9	6	5	4	20	35	km 590 = 1000m
590,838	4.334	15	11	10	7	5	4	3	20	31	
590,760	4.287	18	14	12	9	7	5	4	73	32	
590,680	4.301	31	23	19	14	9	6	4	20	32	início de ponte km 590,634
590,360	4.363	17	13	11	8	6	4	3	20	31	final de ponte km 590,371
590,280	4.364	18	14	11	9	6	4	3	73	28	
590,200	4.278	26	21	18	14	9	6	3	20	29	
590,120	4.404	30	22	19	13	9	6	4	20	32	
590,038	4.329	25	20	17	13	9	6	4	73	33	
589,960	4.269	33	25	21	15	10	6	4	20	31	km 589 = 1000m
589,879	4.263	40	32	28	20	14	10	7	13	29	
589,799	4.253	58	44	36	24	16	11	7	73	28	
589,718	4.267	43	32	27	19	14	10	8	73	31	
589,639	4.294	30	23	19	13	8	5	3	20	32	
589,559	4.274	40	29	23	16	10	6	3	20	32	
589,479	4.294	18	14	11	8	5	3	2	20	31	
589,399	4.317	38	25	18	13	8	5	3	13	32	
589,321	4.294	17	13	12	10	8	6	4	20	35	
589,240	4.290	22	18	16	13	9	6	4	20	35	
589,159	4.283	24	20	18	14	11	7	5	73	34	
589,079	4.337	40	30	26	19	12	7	4	20	35	
588,919	4.188	61	48	39	27	18	12	8	20	32	km 588 = 1000m
588,840	4.298	22	17	15	11	8	5	3	13	36	
588,758	4.301	14	10	9	7	6	5	4	20	34	
588,680	4.285	32	24	21	16	11	7	5	20	34	
588,598	4.260	44	29	23	14	6	3	2	73	33	
588,521	4.373	19	16	16	14	12	10	8	20	34	
588,439	4.292	45	33	27	19	12	7	5	20	33	
588,359	4.326	19	12	10	7	4	3	1	20	30	
588,280	4.317	18	14	13	10	7	5	4	73	29	
588,199	4.299	21	15	12	9	6	4	3	20	29	
588,121	4.290	19	14	11	8	5	3	2	73	34	
588,040	4.260	27	20	16	12	8	5	3	73	27	
587,960	4.282	34	27	23	17	12	8	5	20	32	km 587 = 1000m
587,882	4.217	106	82	64	41	23	13	7	20	33	
587,798	4.299	81	68	55	39	24	13	8	73	30	
587,717	4.253	105	83	67	42	23	12	6	20	33	
587,641	4.309	80	62	53	38	23	12	6	20	36	
587,560	4.280	48	36	29	19	13	8	6	20	37	
587,559	4.301	40	30	24	17	11	7	5	6	38	
587,482	4.276	40	30	24	16	10	6	4	20	39	
587,400	4.280	37	28	23	16	10	6	4	73	40	
587,319	4.253	62	44	34	22	11	5	3	73	38	
587,239	4.280	39	28	22	14	7	3	1	13	39	
587,158	4.303	28	20	16	12	8	6	4	20	39	
587,078	4.298	32	25	21	15	10	6	3	73	40	
587,000	4.273	22	16	13	9	6	3	2	66	35	
586,922	4.274	28	20	16	11	7	5	3	20	38	km 586 = 1000m
586,919	4.220	56	44	31	19	12	8	6	13	37	
586,838	4.334	43	31	23	13	7	4	2	13	38	
586,759	4.365	50	35	27	16	9	5	3	73	37	
586,681	4.256	46	31	24	15	8	3	1	20	38	
586,601	4.325	59	40	28	16	7	4	2	13	38	
586,519	4.309	46	34	25	15	9	6	4	20	35	
586,442	4.343	64	47	36	24	12	7	5	20	39	
586,359	4.290	56	42	34	22	11	6	3	73	39	
586,281	4.317	58	41	31	20	12	8	5	20	38	
586,201	4.303	86	69	54	36	20	11	6	20	37	
586,121	4.247	57	39	29	19	10	5	3	13	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
586,040	4.350	53	43	36	25	14	7	4	20	39	
585,960	4.316	61	46	36	24	13	8	4	20	39	km 585 = 1000m
585,879	4.303	75	55	43	30	18	11	7	73	38	
585,801	4.253	62	48	39	27	16	9	5	73	38	
585,722	4.282	53	39	31	21	12	7	4	13	39	
585,637	4.255	65	46	34	21	12	7	4	13	38	
585,560	4.317	53	37	27	16	9	4	3	20	37	
585,479	4.261	75	55	42	22	12	5	3	20	38	
585,397	4.328	36	23	18	12	8	6	4	13	33	
585,320	4.282	81	63	52	37	23	14	9	20	38	
585,242	4.321	54	43	37	28	19	12	8	20	40	
585,158	4.296	44	33	27	20	13	9	6	73	38	
585,082	4.265	55	40	31	19	11	7	5	13	39	
585,001	4.261	76	54	40	24	10	5	3	66	38	
584,921	4.265	59	39	27	15	7	3	2	73	38	km 584 = 1000m
584,838	4.287	49	35	28	19	10	6	4	20	39	
584,758	4.328	29	19	13	8	4	3	2	73	33	
584,681	4.274	51	35	27	18	10	5	3	20	36	
584,597	4.342	25	17	13	8	5	2	1	13	32	
584,518	4.307	47	35	29	21	13	7	4	20	32	
584,437	4.288	38	26	19	12	5	2	1	20	31	
584,359	4.326	19	12	10	7	4	3	1	20	30	
584,280	4.317	18	14	13	10	7	5	4	73	29	
584,199	4.299	21	15	12	9	6	4	3	20	29	
584,121	4.290	19	14	11	8	5	3	2	73	34	
584,040	4.260	27	20	16	12	8	5	3	73	27	
583,959	4.288	28	20	17	12	8	5	3	66	41	km 583 = 1000m
583,880	4.283	19	13	10	7	4	2	2	73	32	
583,799	4.298	56	39	27	17	8	5	3	20	39	
583,721	4.290	36	30	26	17	10	5	3	20	38	
583,641	4.280	33	24	19	12	8	5	3	20	36	
583,562	4.310	28	19	14	8	4	2	1	20	36	
583,481	4.307	26	19	14	9	4	2	1	73	36	
583,402	4.285	36	24	17	9	4	2	2	73	31	
583,319	4.309	38	26	19	12	5	3	2	13	29	
583,240	4.274	38	27	20	13	7	3	2	73	29	
583,160	4.328	22	17	14	9	6	4	3	20	34	
583,080	4.328	36	24	18	11	6	4	3	13	30	
583,001	4.405	26	17	13	8	4	3	3	25	24	
582,920	4.338	45	32	24	15	9	6	4	26	33	km 582 = 1000m
582,840	4.417	58	41	32	20	10	7	4	26	33	
582,758	4.500	53	38	30	19	11	7	4	28	32	
582,679	4.468	24	18	15	11	7	5	3	27	34	
582,599	4.437	30	20	14	9	4	3	2	27	33	
582,519	4.398	64	48	36	23	14	8	4	28	30	
582,439	4.403	63	50	39	27	17	11	7	27	32	
582,360	4.430	29	21	16	9	5	2	2	28	33	
582,281	4.432	53	28	17	10	5	3	2	27	23	
582,197	4.403	13	9	7	5	3	2	1	28	24	
582,118	4.409	15	10	8	6	4	3	2	28	29	
582,040	4.373	45	30	20	11	6	4	3	27	22	
581,960	4.342	52	41	34	25	17	10	5	28	21	km 581 = 1060m
581,881	4.338	41	31	27	22	16	11	7	28	22	
581,800	4.376	23	17	14	10	7	4	3	28	28	
581,720	4.383	45	34	27	19	11	6	3	28	36	
581,638	4.360	29	23	19	13	9	6	4	28	35	
581,560	4.356	42	35	30	23	16	10	6	29	35	
581,480	4.254	60	41	31	18	10	5	3	28	31	
581,401	4.419	18	14	13	11	8	6	4	29	35	
581,319	4.364	27	21	18	13	8	5	3	29	35	
581,238	4.381	49	35	24	14	9	5	3	29	32	
581,158	4.348	37	28	23	16	11	8	5	29	30	
581,081	4.380	58	40	29	18	12	8	6	29	30	
581,000	4.373	50	39	30	20	12	7	4	29	32	
580,920	4.434	12	9	7	5	4	3	2	28	34	km 580 = 1000m
580,840	4.389	23	18	16	12	8	5	3	27	34	
580,760	4.398	19	15	12	8	5	3	2	28	34	
580,681	4.369	20	16	13	9	6	3	2	28	24	
580,599	4.369	12	10	8	6	4	3	2	29	28	
580,521	4.375	13	9	8	6	4	3	2	28	27	
580,440	4.369	14	11	10	8	6	4	3	29	28	
580,360	4.375	23	18	15	11	7	4	3	29	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9						DATA: fev/2007			
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
580,279	4.339	34	26	22	17	11	7	5	29	33	
580,197	4.342	63	46	39	27	17	10	7	28	31	
580,119	4.332	46	37	30	22	15	10	6	28	35	
580,041	4.364	49	37	27	17	9	4	2	29	34	
579,962	4.242	92	66	47	28	13	6	3	29	31	km 579 = 1155m
579,878	4.398	26	18	14	9	6	4	3	29	29	
579,801	4.303	63	45	37	24	15	9	6	29	23	
579,721	4.369	38	27	22	16	11	7	5	28	26	
579,639	4.377	32	25	20	15	10	6	4	28	23	
579,560	4.378	23	17	14	10	7	5	4	28	37	
579,479	4.303	42	27	21	15	9	7	5	28	34	
579,400	4.359	25	19	16	11	7	4	3	29	36	
579,319	4.297	66	44	32	19	10	6	4	28	38	
579,240	4.375	57	34	20	9	4	3	2	28	36	
579,158	4.362	43	24	15	7	3	2	1	28	36	
579,079	4.355	39	25	16	8	4	3	2	28	30	
579,001	4.369	52	32	21	10	5	3	2	27	31	
578,920	4.338	52	34	23	13	7	4	3	26	33	km 578 = 1000m
578,919	4.342	25	17	13	8	5	3	2	27	28	
578,838	4.409	22	13	8	5	3	2	2	27	35	
578,761	4.315	72	47	33	20	10	5	2	27	36	
578,682	4.366	26	19	15	10	6	3	3	27	36	
578,599	4.355	12	8	6	4	2	1	1	28	28	
578,519	4.332	14	10	8	5	4	2	1	27	36	
578,437	4.344	39	24	14	7	4	2	2	26	28	
578,360	4.391	15	10	8	5	3	2	2	27	37	
578,280	4.332	18	12	9	6	4	3	2	27	37	
578,200	4.298	26	18	14	9	5	3	2	27	37	
578,119	4.325	18	13	11	8	5	3	2	26	36	
578,040	4.305	13	8	6	4	3	2	2	26	36	
577,960	4.317	20	14	11	7	4	3	2	26	35	km 577 = 1180m
577,881	4.305	17	12	9	6	3	2	2	26	37	
577,800	4.307	12	8	7	5	3	2	2	26	36	
577,718	4.312	26	18	14	9	5	3	2	27	36	
577,642	4.251	24	18	15	11	7	5	4	26	35	
577,561	4.280	28	21	18	12	8	5	4	26	37	
577,479	4.269	43	30	24	16	10	6	4	26	30	
577,401	4.326	12	10	9	7	5	4	3	26	25	
577,320	4.305	22	18	16	12	8	6	4	26	22	
577,242	4.272	19	15	13	9	6	4	2	27	24	
577,160	4.288	11	9	8	6	4	3	2	26	27	
577,081	4.290	28	20	15	10	6	3	2	26	39	
576,999	4.288	12	8	7	5	4	3	2	26	24	
576,920	4.270	15	11	9	6	4	3	2	26	36	km 576 = 1000m
576,840	4.263	37	28	24	17	11	7	5	26	37	
576,760	4.399	20	15	12	8	5	3	2	26	34	
576,680	4.368	19	16	13	9	6	3	2	26	24	
576,599	4.369	13	10	8	6	4	3	2	26	28	
576,520	4.377	13	9	8	6	4	3	2	27	27	
576,440	4.363	14	11	10	8	6	4	3	26	28	
576,360	4.377	24	18	15	11	7	4	3	26	35	
576,279	4.339	34	26	22	17	11	7	5	26	33	
576,197	4.344	63	46	39	27	17	10	7	26	31	
576,119	4.337	47	37	30	22	15	10	6	26	35	
575,960	4.556	24	18	14	10	7	4	3	33	43	km 575 = 1000m
575,880	4.613	19	13	10	7	4	2	2	33	46	
575,797	4.565	34	23	18	11	6	3	2	33	46	
575,721	4.497	53	37	28	17	9	5	3	32	45	
575,641	4.439	42	28	21	12	7	4	2	33	43	
575,561	4.539	36	25	20	14	9	6	3	33	44	
575,481	4.570	36	26	22	16	10	7	5	32	45	
575,400	4.584	38	29	25	19	13	8	5	33	45	
575,321	4.594	31	23	19	15	10	7	5	33	45	
575,241	4.572	22	16	14	10	7	5	3	33	45	
575,160	4.549	25	17	14	9	6	4	3	33	45	
575,080	4.527	23	16	14	10	7	4	3	33	45	
575,001	4.529	68	48	33	16	8	4	2	33	43	
574,920	4.581	23	16	12	8	4	2	1	32	44	km 574 = 1000m
574,840	4.573	21	13	10	6	3	2	2	33	44	
574,760	4.537	21	14	11	8	5	3	2	33	43	
574,680	4.503	26	18	15	10	6	4	2	33	42	
574,600	4.524	23	17	14	11	8	5	3	33	43	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
574,521	4.529	25	18	15	11	7	4	2	33	43	
574,440	4.546	22	16	12	8	5	2	2	33	42	
574,361	4.538	35	24	19	12	7	3	2	33	43	
574,279	4.505	34	26	22	16	10	7	4	32	42	
574,200	4.511	38	29	25	20	14	10	6	32	41	
574,121	4.505	49	33	25	15	8	5	4	32	42	
574,040	4.473	45	32	26	17	10	5	4	33	43	
573,961	4.556	24	18	14	10	7	4	3	33	43	km 573 = 1000m
573,879	4.501	24	17	13	8	5	3	2	33	43	
573,798	4.528	22	16	13	9	6	3	2	32	44	
573,719	4.559	25	17	13	9	5	3	2	33	42	
573,642	4.519	45	29	21	12	6	2	1	33	40	
573,561	4.554	40	28	20	11	5	2	1	32	40	
573,481	4.573	26	17	12	8	4	2	2	32	42	
573,401	4.491	39	27	22	15	9	5	3	33	42	
573,320	4.486	44	30	24	17	10	5	3	33	43	
573,239	4.497	46	32	24	15	9	5	3	33	41	
573,160	4.484	51	36	24	16	10	6	3	32	42	
573,079	4.495	33	22	17	11	6	4	2	33	43	
572,999	4.556	39	30	26	20	14	9	3	32	43	
572,919	4.482	39	27	20	11	5	3	2	33	42	km 572 = 1000m
572,840	4.505	48	31	22	11	4	2	1	33	40	
572,762	4.535	34	23	18	12	6	3	1	32	39	
572,680	4.513	37	24	19	12	6	3	2	32	37	
572,599	4.519	47	32	25	15	8	4	2	33	40	
572,519	4.538	35	25	18	10	5	2	2	33	40	
572,438	4.443	72	52	42	30	19	11	7	33	39	
572,360	4.532	34	24	20	14	8	5	3	33	36	
572,281	4.543	38	27	22	15	10	6	3	33	39	
572,201	4.496	59	40	28	17	9	6	3	33	38	
572,118	4.435	61	41	31	18	10	8	6	32	38	
572,040	4.373	59	39	30	19	11	7	5	33	41	
571,960	4.508	67	45	34	22	12	7	4	33	39	km 571 = 1000m
571,879	4.504	49	31	22	13	7	4	2	32	41	
571,799	4.475	44	29	19	10	5	3	2	33	41	
571,718	4.500	36	25	21	15	10	7	4	33	43	
571,640	4.498	33	23	18	13	9	6	4	33	43	
571,560	4.538	22	16	14	10	7	4	3	32	42	
571,482	4.471	35	22	16	10	6	4	2	33	42	
571,399	4.422	47	35	24	15	8	5	3	33	40	
571,319	4.539	33	21	15	9	5	3	2	33	41	
571,239	4.495	43	28	22	15	9	5	3	32	43	
571,160	4.453	40	24	11	5	3	2	1	31	38	
571,081	4.563	30	21	16	11	6	4	2	32	42	
570,999	4.565	34	25	21	15	11	7	5	32	43	
570,919	4.427	64	46	35	22	13	7	4	32	40	km 570 = 1000m
570,919	4.478	53	38	29	20	12	6	4	31	40	
570,839	4.441	48	33	25	16	9	4	2	33	40	
570,761	4.509	33	25	20	14	9	5	3	32	40	
570,679	4.471	39	27	20	13	6	3	1	32	38	
570,599	4.501	31	23	18	12	5	3	2	32	38	
570,520	4.446	52	38	25	14	8	4	3	32	36	
570,440	4.503	40	29	23	15	9	5	3	31	37	
570,361	4.503	36	24	18	11	7	4	2	32	38	
570,280	4.449	59	40	29	18	10	6	4	31	37	
570,199	4.430	58	34	22	9	3	1	1	31	36	
570,119	4.471	51	37	27	12	7	3	2	31	37	
570,040	4.500	30	23	18	13	8	4	2	30	38	
569,962	4.519	27	20	16	11	6	4	2	30	35	km 569 = 840m
569,881	4.503	39	28	22	14	8	4	2	30	37	
569,801	4.539	27	19	15	9	5	3	2	30	36	
569,719	4.525	47	34	25	15	8	4	3	30	37	
569,639	4.541	30	21	17	12	8	5	3	30	37	
569,560	4.534	38	27	22	15	9	5	3	29	37	
569,479	4.671	53	37	28	17	10	5	3	29	38	
569,399	4.500	44	27	17	9	6	4	3	28	37	
569,320	4.499	39	23	17	10	5	2	2	29	36	
569,240	4.471	49	31	22	11	4	2	1	29	36	
569,160	4.476	44	30	22	13	7	4	2	28	36	
568,919	4.546	31	21	15	9	4	2	1	28	37	km 568 = 1000m
568,839	4.556	35	25	20	14	9	6	4	27	38	
568,760	4.480	40	24	18	10	5	2	2	28	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9						DATA: fev/2007			
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
568,681	4.584	21	15	12	8	6	4	3	28	34	
568,602	4.509	58	37	27	17	9	4	2	28	33	
568,519	4.472	78	62	53	40	29	20	13	28	37	
568,440	4.439	70	50	37	26	17	11	7	28	36	
568,361	4.462	60	41	30	16	9	5	3	28	38	
568,280	4.474	45	28	16	8	4	3	2	28	38	
568,200	4.487	43	29	19	10	5	3	2	28	38	
568,118	4.498	47	30	19	10	5	3	2	27	38	
568,040	4.517	43	30	20	11	6	3	2	27	39	
567,960	4.463	47	32	21	13	7	4	2	28	38	km 567 = 1160m
567,880	4.455	50	31	20	12	6	3	2	27	39	
567,800	4.444	44	27	17	9	4	2	1	27	40	
567,719	4.549	24	14	10	7	5	3	2	28	40	
567,640	4.489	40	28	20	12	7	4	3	27	39	
567,560	4.517	31	23	19	14	8	5	3	27	40	
567,479	4.489	36	25	20	13	7	3	2	27	40	
567,398	4.471	37	26	20	12	5	2	1	28	40	
567,319	4.490	68	54	41	26	16	9	5	28	37	
567,239	4.485	35	25	19	13	7	4	2	28	39	
567,160	4.426	54	38	26	16	10	6	4	28	36	
567,080	4.482	40	29	23	15	8	4	2	27	38	
567,001	4.498	26	19	15	10	6	4	2	28	39	
566,921	4.466	52	38	31	22	15	10	7	28	39	km 566 = 1000m
566,840	4.485	52	40	33	24	16	11	6	28	40	
566,919	4.348	60	41	30	19	10	5	4	27	39	
566,840	4.441	56	39	29	16	9	4	2	28	38	
566,761	4.469	51	38	31	22	15	8	5	28	39	
566,680	4.501	28	21	17	12	8	5	3	28	37	
566,600	4.522	39	28	23	17	12	9	6	28	37	
566,519	4.538	53	39	29	18	11	5	3	27	37	
566,436	4.490	23	17	14	11	7	5	3	28	38	
566,359	4.421	52	38	29	19	11	6	6	28	38	
566,281	4.422	62	48	40	30	20	12	8	28	37	
566,199	4.437	40	30	24	14	9	5	3	27	37	
566,121	4.440	55	39	31	19	10	6	3	27	35	
566,041	4.517	29	22	18	13	9	6	4	28	38	
565,960	4.503	30	22	18	13	9	6	4	28	35	km 565 = 1000m
565,877	4.451	60	44	35	25	17	11	7	28	34	
565,799	4.460	37	25	20	14	9	6	4	28	35	
565,719	4.527	31	22	17	11	7	4	3	28	35	
565,639	4.525	37	27	22	16	10	7	5	27	37	
565,560	4.471	49	34	26	16	9	5	3	28	37	
565,477	4.498	34	25	20	14	8	5	3	28	38	
565,398	4.462	50	36	27	16	8	5	3	28	37	
565,321	4.498	42	30	26	20	13	9	5	28	39	
565,240	4.484	42	29	22	15	7	4	3	28	38	
565,160	4.512	49	38	32	25	17	12	8	28	39	
565,081	4.532	29	21	18	13	10	7	6	28	39	
564,999	4.471	38	25	19	13	9	6	5	28	39	
564,919	4.544	33	23	19	14	9	6	4	28	39	km 564 = 1000m
564,840	4.549	31	20	15	9	5	3	2	28	38	
564,760	4.511	28	20	17	11	7	4	2	27	40	
564,677	4.464	24	18	15	9	6	3	2	28	38	
564,677	4.546	24	18	14	9	6	3	2	27	38	
564,599	4.511	24	17	14	9	6	3	2	28	38	
564,520	4.502	33	23	18	12	8	6	5	28	35	
564,441	4.522	31	22	17	12	7	4	3	28	35	
564,361	4.482	27	20	17	12	8	5	3	27	35	
564,281	4.431	59	39	30	18	13	10	7	28	35	
564,199	4.417	73	55	45	31	21	13	9	28	37	
564,120	4.466	43	30	25	18	13	9	7	27	36	
564,041	4.496	36	25	20	15	10	7	5	27	33	
563,962	4.488	21	15	12	8	5	3	2	27	33	km 563 = 1000m
563,881	4.519	28	19	15	9	5	3	2	27	34	
563,799	4.523	27	20	16	12	7	4	3	26	34	
563,719	4.546	28	23	18	10	6	4	2	27	33	
563,640	4.469	36	23	15	9	5	2	2	27	32	
563,560	4.559	20	15	13	9	6	4	2	27	31	
563,479	4.507	26	20	17	13	9	6	4	26	31	
563,399	4.430	80	63	53	40	26	17	9	27	32	
563,321	4.483	55	35	25	14	6	3	1	26	33	
563,240	4.424	59	43	34	22	11	5	2	26	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
563,160	4.476	44	30	22	13	7	4	2	26	32	
563,081	4.532	29	21	18	13	10	7	6	27	32	
562,999	4.471	38	25	19	13	9	6	5	27	31	
562,919	4.546	31	21	15	9	4	2	1	27	31	km 562 = 1000m
562,839	4.556	35	25	20	14	9	6	4	26	31	
562,760	4.480	40	24	18	10	5	2	2	26	32	
562,681	4.584	21	15	12	8	6	4	3	27	31	
562,602	4.509	58	37	27	17	9	4	2	27	31	
562,519	4.472	78	62	53	40	29	20	13	26	31	
562,440	4.439	70	50	37	26	17	11	7	26	31	
562,361	4.462	60	41	30	16	9	5	3	26	31	
562,280	4.474	45	28	16	8	4	3	2	26	31	
562,200	4.487	43	29	19	10	5	3	2	25	30	
562,118	4.498	47	30	19	10	5	3	2	25	31	
562,040	4.517	43	30	20	11	6	3	2	25	32	
561,960	4.508	67	45	34	22	12	7	4	25	31	km 561 = 1000m
561,879	4.504	49	31	22	13	7	4	2	26	30	
561,799	4.460	37	25	20	14	9	6	4	25	31	
561,719	4.527	31	22	17	11	7	4	3	25	32	
561,639	4.525	37	27	22	16	10	7	5	25	31	
561,560	4.538	22	16	14	10	7	4	3	26	31	
561,480	4.471	35	22	16	10	6	4	2	25	30	
561,399	4.422	47	35	24	15	8	5	3	25	30	
561,320	4.483	55	35	25	14	6	3	1	25	31	
561,240	4.424	59	43	34	22	11	5	2	25	30	
561,160	4.453	40	24	11	5	3	2	1	25	31	
561,080	4.563	30	21	16	11	6	4	2	26	30	
561,001	4.509	33	23	16	8	3	1	1	25	23	
560,919	4.537	43	31	22	12	5	3	2	25	23	km 560 = 1000m
560,840	4.693	29	20	15	9	4	2	2	25	25	
560,758	4.617	53	38	25	14	7	4	3	26	31	
560,680	4.591	50	37	30	20	12	8	5	26	30	
560,599	4.609	35	24	16	7	3	2	2	25	30	
560,519	4.596	40	28	19	11	6	3	2	25	30	
560,437	4.615	40	28	18	10	5	3	2	26	30	
560,359	4.617	43	32	25	17	10	6	4	25	31	
560,280	4.584	35	26	20	14	8	5	4	26	31	
560,201	4.582	38	27	20	12	6	3	2	26	31	
560,120	4.605	50	35	26	15	9	5	4	26	32	
560,039	4.579	32	24	19	13	7	4	3	26	32	
559,958	4.597	34	25	20	12	6	3	1	25	32	km 559 = 1100m
559,880	4.588	47	34	25	14	7	3	2	26	31	
559,801	4.568	43	32	26	17	9	4	2	27	32	
559,720	4.565	53	39	29	16	7	3	1	26	31	
559,640	4.576	56	38	28	15	6	3	1	27	31	
559,558	4.547	46	34	25	9	4	2	1	26	32	
559,482	4.571	42	30	20	13	6	3	2	27	31	
559,400	4.599	43	31	23	15	8	5	4	26	32	
559,318	4.628	33	23	17	10	6	4	3	26	31	
559,240	4.576	47	35	27	19	12	8	5	26	31	
559,161	4.626	33	26	22	16	10	6	3	26	30	
559,081	4.562	43	31	19	12	7	5	3	27	28	
559,000	4.615	37	27	21	13	7	4	3	27	23	
558,920	4.627	16	13	12	10	8	6	4	27	32	km 558 = 1000m
558,919	4.669	14	11	9	7	5	4	3	26	33	
558,840	4.624	15	13	12	10	8	6	5	25	32	
558,760	4.675	8	6	5	4	4	3	3	27	32	
558,679	4.599	8	5	5	4	3	3	2	27	32	
558,599	4.588	6	4	4	3	3	2	2	26	32	
558,521	4.663	9	7	7	6	5	4	3	27	31	
558,440	4.607	9	7	6	5	4	3	2	27	32	
558,358	4.608	11	9	8	7	6	5	3	27	32	
558,279	4.587	11	8	7	6	4	3	2	27	24	
558,199	4.573	18	14	12	9	7	4	3	26	24	
558,121	4.597	20	15	13	10	7	5	4	27	34	
558,040	4.579	13	11	10	8	7	5	2	26	33	
557,960	4.581	18	14	12	10	7	5	3	26	23	km 557 = 900m
557,879	4.657	7	5	5	4	3	3	2	26	24	
557,799	4.655	8	5	4	4	3	2	2	26	25	
557,721	4.647	11	8	7	6	4	3	2	26	26	
557,640	4.590	18	13	11	8	5	3	2	26	24	
557,560	4.617	8	6	5	4	3	2	2	27	26	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
557,481	4.609	10	8	7	6	5	5	4	26	24	
557,399	4.604	18	14	12	10	7	4	3	27	26	
557,321	4.600	9	7	6	5	4	3	2	27	24	
557,240	4.633	8	6	5	4	4	3	2	26	23	
557,162	4.584	12	10	9	8	7	5	4	26	25	
557,001	4.536	31	24	22	18	14	10	7	25	30	
556,920	4.638	21	17	16	14	11	9	7	26	33	km 556 = 1000m
556,838	4.609	14	10	9	7	5	4	3	26	34	
556,759	4.541	35	27	22	16	11	8	5	25	32	
556,677	4.602	19	15	13	11	9	6	4	26	33	
556,599	4.514	53	40	30	21	12	7	4	27	33	
556,518	4.498	52	37	28	20	12	7	4	26	35	
556,440	4.581	9	6	5	4	4	3	2	26	35	
556,360	4.594	27	19	16	11	7	4	3	26	36	
556,281	4.549	34	25	21	15	10	6	4	26	33	
556,202	4.615	12	9	8	6	5	4	3	26	34	
556,120	4.581	46	36	30	23	16	10	6	26	35	
556,041	4.543	39	29	24	17	11	8	5	26	35	
555,960	4.562	15	11	10	8	7	6	4	26	35	km 555 = 1000m
555,879	4.586	29	23	21	17	13	10	7	27	36	
555,799	4.583	23	19	17	15	11	8	5	27	35	início de viaduto km 555,743
555,640	4.557	38	25	18	10	5	3	2	27	36	final de viaduto km 555,700
555,562	4.612	12	9	7	5	3	2	2	27	36	
555,479	4.595	31	24	21	16	10	6	3	28	36	
555,399	4.594	23	19	17	14	10	8	5	28	35	
555,319	4.561	11	8	8	6	5	4	3	27	36	
555,240	4.573	7	5	4	4	3	3	2	28	30	
555,160	4.573	8	6	5	5	4	4	3	28	35	
555,079	4.640	9	6	6	5	4	4	3	28	34	
555,001	4.549	8	6	6	5	4	4	3	28	35	
554,919	4.597	12	8	7	6	5	3	3	27	36	km 554 = 1000m
554,838	4.533	39	30	25	18	11	7	5	28	36	
554,760	4.613	11	8	8	7	5	4	3	28	36	
554,680	4.559	13	10	8	7	5	3	2	28	36	
554,599	4.552	18	14	12	10	7	4	3	29	36	
554,520	4.559	14	10	9	7	5	3	2	29	28	
554,438	4.527	32	23	19	14	9	6	4	28	37	
554,360	4.549	40	31	27	20	14	9	6	29	36	
554,280	4.525	43	30	24	16	10	6	4	29	38	
554,280	4.503	41	30	23	15	10	6	4	29	38	
554,201	4.529	29	21	17	12	8	6	4	29	38	
554,119	4.567	29	20	16	11	7	5	3	29	37	
554,042	4.551	25	18	15	12	8	5	3	29	37	
553,960	4.583	13	9	8	6	4	3	2	29	38	km 553 = 920m
553,880	4.557	17	14	12	10	8	6	5	29	33	
553,800	4.567	28	23	21	17	13	9	7	28	38	
553,718	4.556	38	30	27	22	16	12	8	28	38	
553,638	4.549	26	20	18	15	11	8	6	29	37	
553,560	4.566	22	17	15	13	10	8	5	28	37	
553,479	4.562	18	13	12	10	8	6	5	28	37	
553,398	4.545	18	13	12	10	8	6	5	28	37	
553,318	4.535	20	17	16	13	11	9	6	29	37	
553,239	4.565	13	11	11	9	7	6	5	29	25	
553,160	4.581	20	16	14	12	9	6	4	28	35	
553,080	4.576	30	21	16	11	7	5	3	28	37	
552,919	4.567	28	20	15	9	5	3	2	28	32	km 552 = 1000m
552,840	4.535	30	23	18	12	7	4	2	27	32	
552,760	4.511	31	22	16	9	5	3	2	28	27	
552,679	4.522	28	19	14	9	5	3	2	27	33	
552,599	4.527	32	22	17	10	5	3	2	28	29	
552,519	4.545	25	18	14	9	6	3	2	27	36	
552,439	4.524	42	28	20	11	5	2	2	27	38	
552,359	4.520	30	20	14	8	3	2	1	28	39	
552,277	4.515	24	16	13	8	5	3	2	28	37	
552,200	4.568	19	14	13	10	7	5	4	27	24	
552,118	4.518	35	26	21	15	9	5	3	28	25	
552,040	4.559	15	11	10	8	7	5	1	28	29	
551,961	4.527	24	19	16	13	9	6	5	28	34	km 551 = 1000m
551,881	4.529	21	15	13	10	7	5	4	28	27	
551,801	4.535	14	10	9	7	5	4	3	27	25	
551,719	4.513	30	23	20	15	11	7	4	27	40	
551,637	4.523	23	16	13	10	7	4	3	27	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
551,560	4,558	15	11	9	7	5	4	3	26	29	
551,480	4,559	20	14	12	9	6	4	3	27	33	
551,399	4,584	21	15	13	10	7	5	3	27	34	
551,320	4,581	22	16	13	10	7	5	3	27	38	
551,240	4,572	29	21	17	13	10	7	5	28	39	
551,160	4,524	38	29	23	16	10	6	3	28	37	
551,082	4,583	23	17	14	10	7	4	2	28	38	
551,000	4,527	38	27	21	15	10	7	5	28	39	
550,919	4,543	29	21	18	13	9	6	4	28	39	km 550 = 1000m
550,838	4,527	41	31	27	20	14	9	6	27	40	
550,758	4,563	30	22	18	13	10	7	5	28	40	
550,679	4,591	16	12	10	8	7	5	4	29	40	
550,598	4,531	18	14	12	10	7	6	4	28	40	
550,519	4,524	17	13	11	9	7	6	4	29	40	
550,439	4,500	26	21	19	16	13	10	7	29	40	
550,360	4,529	21	16	14	11	9	6	5	29	40	
550,279	4,531	27	21	19	15	11	8	5	29	40	
550,200	4,535	13	9	7	5	4	2	1	29	40	
550,119	4,569	11	7	6	5	3	2	2	29	39	
550,039	4,508	13	9	8	6	5	4	3	29	35	
549,958	4,497	15	10	9	6	4	3	2	29	39	km 549 = 660m
549,879	4,465	9	5	4	3	2	1	1	30	41	
549,799	4,531	14	10	9	8	6	5	4	28	42	
549,718	4,545	8	5	4	3	2	1	1	29	38	
549,640	4,551	10	7	6	5	3	2	2	29	32	
549,559	4,529	6	4	4	3	2	1	1	29	32	
549,480	4,510	6	4	4	3	2	1	1	28	36	início de viaduto km 549,408 final de viaduto km 549,362
549,001	4,508	31	22	16	10	6	4	3	27	39	
548,920	4,472	65	45	33	21	12	8	5	29	39	km 548 = 1000m
548,838	4,538	16	13	12	10	8	7	6	29	39	
548,762	4,544	14	12	11	9	8	6	5	28	40	
548,680	4,545	17	13	12	10	8	6	4	29	40	
548,599	4,535	14	10	9	6	4	3	1	29	40	
548,519	4,492	34	20	13	6	2	1	1	29	40	
548,440	4,507	51	31	20	8	2	1	0	29	40	
548,360	4,496	40	25	16	7	2	0	0	30	40	
548,281	4,534	30	18	12	6	3	2	1	32	40	
548,201	4,492	26	17	13	8	5	3	2	30	39	
548,121	4,444	66	46	33	18	7	3	1	30	39	
548,040	4,459	52	37	29	17	8	3	1	30	40	
547,960	4,451	68	50	38	23	11	5	2	30	39	km 547 = 1160m
547,881	4,475	54	37	27	17	8	3	1	30	41	
547,800	4,455	57	38	26	14	5	2	1	30	41	
547,719	4,448	45	31	23	13	7	3	1	30	41	
547,641	4,403	95	61	39	20	9	5	3	30	33	
547,561	4,496	26	17	13	8	5	3	1	29	28	
547,477	4,506	33	21	15	8	4	2	1	30	38	
547,400	4,535	34	24	17	10	4	2	1	30	39	
547,317	4,457	44	28	20	10	4	2	1	31	41	
547,238	4,450	46	35	28	18	10	4	2	31	41	
547,161	4,459	66	51	39	25	12	7	5	31	39	
547,077	4,444	63	47	37	26	14	8	5	30	34	
547,000	4,535	30	19	13	7	3	1	1	30	40	
546,919	4,473	65	39	23	8	3	1	1	30	39	km 546 = 1000m
546,841	4,452	46	33	26	17	10	7	5	31	27	
546,922	4,470	42	30	22	15	9	5	3	31	30	
546,840	4,473	26	19	15	10	5	3	2	31	37	
546,759	4,489	48	34	27	18	10	6	3	31	39	
546,679	4,479	32	23	18	11	6	4	2	31	40	
546,600	4,446	43	28	20	11	6	3	2	31	32	
546,519	4,450	47	35	28	19	10	5	3	32	38	
546,439	4,497	46	28	20	11	6	3	2	31	42	
546,360	4,444	41	28	20	11	6	3	2	32	42	
546,280	4,446	46	28	17	8	4	2	1	32	40	
546,201	4,427	49	32	24	13	7	3	2	32	41	
546,119	4,333	59	39	26	15	9	5	2	32	39	
546,041	4,492	48	33	26	18	12	8	6	32	40	
545,960	4,433	66	46	34	22	13	9	6	31	38	km 545 = 1000m
545,880	4,489	33	24	18	12	7	4	2	31	39	
545,801	4,516	46	32	24	14	7	4	2	31	41	
545,719	4,476	59	42	30	17	9	4	2	32	40	
545,640	4,459	59	41	29	16	8	5	3	32	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
545,558	4,488	42	28	20	11	6	4	3	32	41	início de viaduto km 545,541
545,001	4,420	72	53	43	29	16	7	3	32	42	final de viaduto km 545,020
544,919	4,567	28	20	15	9	5	3	2	31	39	km 544 = 1000m
544,840	4,535	30	23	18	12	7	4	2	31	38	
544,760	4,511	31	22	16	9	5	3	2	32	40	
544,679	4,522	28	19	14	9	5	3	2	32	39	
544,599	4,535	14	10	9	6	4	3	1	32	40	
544,519	4,492	34	20	13	6	2	2	1	31	40	
544,440	4,507	51	31	20	8	2	1	1	31	40	
544,360	4,496	40	25	16	7	2	1	1	31	40	
544,280	4,534	30	18	12	6	3	2	1	32	40	
544,200	4,492	26	17	13	8	5	3	2	32	39	Início Trevo de Acesso BH
533,000	3,684	21	16	15	12	10	7	5	24	27	Final Trevo de Acesso BH
532,920	3,670	17	14	12	11	8	6	5	24	27	km 532 = 1000m
532,840	3,663	44	30	23	17	10	6	3	24	28	
532,757	3,641	60	42	34	23	14	8	6	24	28	
532,680	3,612	46	33	25	18	12	7	5	24	28	
532,597	3,663	38	27	21	16	11	6	5	24	28	
532,520	3,648	45	29	22	16	11	8	6	24	28	
532,440	3,634	47	35	27	20	14	9	7	24	28	
532,359	3,619	44	30	23	15	9	5	4	24	28	
532,279	3,627	44	35	26	18	11	7	5	24	28	
532,198	3,641	49	37	26	17	10	5	4	24	28	
532,119	3,663	41	33	24	16	9	4	3	24	29	
532,038	3,663	39	28	21	14	8	4	3	24	29	
531,960	3,641	43	29	22	16	11	7	5	24	29	km 531 = 1000m
531,877	3,612	56	33	25	18	11	6	4	27	29	
531,799	3,655	43	26	20	14	9	5	3	27	29	
531,718	3,598	49	35	27	19	11	7	5	27	29	
531,640	3,648	38	30	23	17	10	6	3	27	30	
531,561	3,663	35	24	18	12	7	4	3	27	30	
531,480	3,619	46	34	24	14	7	4	3	27	30	
531,399	3,655	48	35	25	17	10	6	4	27	30	
531,319	3,699	44	30	21	14	8	5	4	27	30	
531,238	3,612	52	37	23	16	9	6	4	27	30	
531,158	3,670	34	22	16	11	7	4	3	27	30	
531,077	3,684	34	24	19	13	8	5	3	27	30	
531,000	3,655	37	25	20	14	9	5	4	27	30	
530,920	3,619	37	23	16	11	7	5	4	27	30	km 530 = 1000m
530,842	3,576	81	64	46	30	20	13	10	27	30	
530,762	3,634	59	48	29	16	7	4	3	27	30	
530,681	3,576	55	38	27	17	10	6	5	27	30	
530,601	3,641	48	41	27	21	10	5	4	29	30	
530,521	3,627	54	36	26	16	9	5	4	29	30	
530,439	3,619	51	33	22	13	7	5	4	29	30	
530,357	3,641	50	38	25	16	9	5	4	29	30	
530,277	3,655	42	36	26	17	11	7	5	29	31	
530,200	3,684	28	23	20	17	13	10	9	29	31	
530,119	3,612	57	45	33	24	16	10	6	29	31	
530,039	3,641	57	41	26	20	13	9	7	29	30	
529,958	3,591	53	34	25	19	12	8	6	29	30	km 529 = 1000m
529,880	3,663	40	27	20	14	7	4	3	29	31	
529,799	3,648	53	37	27	19	11	7	5	29	30	
529,719	3,612	54	39	29	20	12	8	5	29	30	
529,638	3,619	42	30	22	15	10	6	4	29	30	
529,558	3,627	49	36	28	20	13	8	6	29	30	
529,477	3,641	43	32	24	17	11	7	5	29	30	
529,400	3,641	49	39	29	21	13	7	5	29	30	
529,321	3,663	43	32	25	19	12	7	5	29	30	
529,238	3,591	56	35	26	19	12	7	5	29	30	
529,157	3,655	37	27	22	17	11	7	5	29	31	
529,078	3,634	31	19	14	10	6	4	3	29	31	
528,998	3,641	48	33	24	16	10	6	4	29	30	
528,920	3,648	28	22	18	14	10	6	5	29	31	km 528 = 1000m
528,839	3,634	43	31	23	16	11	6	5	29	31	
528,759	3,641	40	26	20	14	8	4	2	29	31	
528,678	3,641	53	34	24	16	9	5	3	29	31	
528,599	3,663	49	35	24	13	7	4	3	29	31	
528,517	3,648	45	34	21	14	7	4	3	29	30	
528,437	3,619	63	41	29	20	14	9	7	29	31	
528,360	3,598	51	40	27	21	13	9	7	29	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9								DATA: fev/2007	
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
528,279	3.648	46	32	22	16	10	7	5	29	31	
528,198	3.598	76	49	31	17	9	6	6	29	31	
528,119	3.648	59	38	21	11	5	4	3	29	31	
528,037	3.612	70	47	31	18	9	5	4	29	31	
527,958	3.583	54	36	25	16	9	5	4	29	32	km 527 = 1000m
527,877	3.648	61	40	27	17	8	5	4	29	31	
527,800	3.605	68	46	31	19	12	7	6	29	31	
527,718	3.612	65	44	25	15	8	5	5	29	31	
527,640	3.612	70	50	33	22	14	9	6	29	32	
527,558	3.598	73	52	33	19	12	8	7	29	32	
527,480	3.634	59	36	24	15	8	5	5	29	32	
527,399	3.605	64	42	25	14	7	4	4	29	32	
527,319	3.627	51	36	25	15	9	6	5	29	32	
527,238	3.619	72	53	33	20	11	7	5	29	32	
527,160	3.641	35	22	14	9	7	5	4	29	32	
527,078	3.655	58	34	21	12	6	4	3	29	32	
527,000	3.619	68	40	26	16	9	6	5	29	32	
526,920	3.627	71	45	28	17	10	6	6	29	32	km 526 = 1000m
526,839	3.612	18	12	9	7	5	4	3	29	32	
526,757	3.627	44	30	23	18	13	9	7	29	32	
526,680	3.598	47	30	23	17	12	8	6	29	32	
526,600	3.634	41	28	20	14	10	6	4	29	32	
526,520	3.627	39	25	18	13	8	5	4	29	32	
526,440	3.641	34	21	15	11	7	4	3	29	32	
526,360	3.641	30	19	14	10	6	3	3	29	32	
526,280	3.641	60	32	18	11	6	4	3	29	33	
526,198	3.641	21	13	10	8	6	4	3	29	32	
526,119	3.591	96	71	46	29	17	9	7	29	32	
526,040	3.627	76	52	34	19	10	6	5	29	32	
525,961	3.576	84	58	40	28	17	11	8	29	33	km 525 = 840m
525,879	3.598	74	45	29	20	12	7	5	29	32	
525,799	3.619	59	41	29	20	12	8	6	29	33	
525,719	3.612	42	31	25	19	13	8	5	29	33	
525,638	3.619	75	47	28	17	9	6	5	29	33	
525,558	3.619	78	53	37	21	12	7	5	29	33	
525,479	3.612	57	33	23	15	9	5	4	29	33	
525,398	3.591	64	39	27	19	11	6	5	29	33	
525,320	3.562	100	63	45	29	16	8	5	29	33	
525,240	3.627	33	24	20	16	11	7	5	29	33	
525,160	3.670	13	11	9	8	6	5	4	29	33	
525,000	3.627	14	12	9	8	7	5	4	29	33	
524,920	3.663	21	16	14	11	9	6	4	29	33	km 524 = 1024m
524,837	3.655	19	16	14	12	9	6	5	29	34	
524,758	3.576	58	44	33	28	17	12	7	29	34	
524,680	3.605	28	25	21	17	12	8	6	29	34	
524,600	3.663	24	17	14	11	7	4	3	29	34	
524,519	3.612	45	35	28	22	15	8	5	29	34	
524,440	3.634	32	23	20	16	12	8	6	29	34	
524,360	3.641	30	21	18	14	11	7	5	29	34	
524,279	3.619	23	15	13	11	8	6	5	29	34	
524,200	3.663	12	9	8	7	6	4	4	29	34	
524,120	3.655	18	14	12	10	8	6	4	29	34	
524,040	3.663	14	10	8	7	6	4	3	29	34	
523,960	3.641	18	11	9	7	6	4	3	29	34	km 523 = 1000m
523,879	3.648	21	13	11	8	6	4	3	29	34	
523,798	3.648	17	9	8	7	5	4	3	29	34	
523,719	3.634	19	12	11	9	7	5	4	29	34	
523,639	3.634	15	9	8	6	5	3	3	29	34	
523,557	3.627	19	13	12	10	8	6	4	29	34	
523,480	3.634	14	9	7	7	5	3	2	29	34	
523,402	3.641	14	11	10	8	6	4	3	29	34	
523,322	3.641	14	10	9	8	7	5	4	29	34	
523,242	3.648	17	9	7	6	4	3	2	29	34	
523,158	3.641	19	10	8	6	5	3	3	29	34	
523,081	3.634	18	8	6	5	4	3	2	29	34	
523,000	3.627	30	21	16	13	9	6	4	29	34	
522,918	3.619	27	17	13	10	7	5	3	29	34	km 522 = 1000m
522,840	3.619	13	7	6	5	4	3	2	33	34	
522,759	3.634	22	15	12	9	6	4	3	33	34	
522,678	3.648	15	9	7	6	4	2	2	33	34	
522,597	3.634	16	10	9	8	6	4	4	33	34	
522,518	3.619	32	21	17	14	10	7	5	33	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9						DATA: fev/2007			
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
522.440	3.612	29	18	14	10	6	4	2	33	33	
522.359	3.612	39	28	22	17	11	7	5	33	34	
522.278	3.598	25	18	15	12	9	6	4	33	33	
522.200	3.612	24	15	12	10	7	4	3	33	33	
522.119	3.634	18	10	8	7	5	3	2	33	33	
522.040	3.641	26	16	12	9	6	3	2	33	33	
521.800	3.619	34	21	16	12	8	4	3	33	33	km 521 = 874m
521.720	3.634	27	16	13	10	7	4	3	33	34	
521.637	3.619	29	18	14	10	7	5	4	33	33	
521.559	3.641	18	9	7	6	4	2	2	33	34	
521.479	3.634	19	12	10	8	6	4	3	33	34	
521.401	3.641	24	15	13	11	8	5	4	33	34	
521.317	3.627	20	13	12	10	8	6	5	33	34	
521.237	3.619	24	16	13	10	7	5	3	33	34	
521.157	3.605	33	21	17	14	10	6	4	33	34	
521.080	3.634	24	18	15	12	9	6	4	33	34	
521.000	3.612	24	14	12	10	7	5	3	33	34	
520.920	3.598	26	17	15	13	10	7	5	33	35	km 520 = 986m
520.837	3.627	18	11	10	8	5	4	3	33	35	
520.759	3.627	21	14	12	10	8	5	4	33	34	
520.678	3.627	18	11	9	7	5	3	3	33	34	
520.598	3.619	27	17	14	11	9	5	4	33	35	
520.517	3.605	45	27	20	14	8	5	3	33	34	
520.438	3.619	25	16	12	9	6	4	3	33	35	
520.358	3.612	34	22	16	12	7	5	4	33	35	
520.277	3.648	41	29	18	11	5	3	2	33	34	
520.198	3.591	43	27	19	14	9	5	4	33	34	
520.120	3.627	21	13	11	9	7	5	4	33	35	
520.042	3.619	18	10	8	7	5	3	3	33	34	
519.880	3.627	18	14	12	10	8	6	5	33	35	km 519 = 960m
519.799	3.634	19	11	10	9	7	5	4	33	35	
519.718	3.641	19	12	11	9	8	6	5	33	34	
519.640	3.619	15	10	9	8	7	5	4	33	34	
519.560	3.627	15	8	8	7	6	5	4	33	34	
519.480	3.619	17	14	13	12	9	6	5	33	34	
519.401	3.627	17	12	11	9	8	5	4	33	34	
519.321	3.619	14	11	10	9	7	5	4	33	34	
519.239	3.612	15	9	8	7	6	4	4	33	34	
519.158	3.605	17	14	12	11	8	6	4	33	34	
519.078	3.627	27	19	16	13	10	6	5	33	34	
519.000	3.648	14	9	8	7	6	5	4	33	35	
518.917	3.663	13	8	7	6	6	4	4	33	34	km 518 = 1000m
518.839	3.641	13	8	7	6	4	3	2	33	34	
518.758	3.634	24	17	13	11	8	5	4	33	35	
518.677	3.648	15	11	10	9	7	5	4	33	34	
518.600	3.641	17	12	10	9	7	5	4	33	35	
518.521	3.612	23	14	12	9	7	4	3	33	35	
518.441	3.634	16	11	9	7	6	4	3	33	35	
518.359	3.663	14	8	7	6	5	4	4	33	34	
518.279	3.648	19	13	11	10	8	6	5	33	35	
518.200	3.634	25	19	16	13	9	6	5	33	35	
518.119	3.619	16	10	9	8	6	4	4	33	35	
518.040	3.648	13	10	8	7	5	3	2	33	34	
517.958	3.641	11	7	6	5	4	3	2	33	35	km 517 = 1000m
517.879	3.641	15	9	8	6	5	3	3	33	35	
517.798	3.634	21	14	12	10	8	5	4	33	35	
517.717	3.627	17	12	9	8	7	5	4	33	35	
517.637	3.619	16	10	8	7	5	4	3	33	35	
517.559	3.627	17	11	9	8	6	4	4	33	35	
517.479	3.583	14	9	8	7	6	4	3	33	35	
517.399	3.598	16	10	9	8	6	5	4	33	35	
517.320	3.641	20	13	11	9	7	4	4	33	35	
517.240	3.634	18	11	9	8	6	4	3	33	35	
517.159	3.641	20	13	10	8	5	3	3	33	35	
517.078	3.619	21	16	13	11	8	5	4	33	35	
517.000	3.619	17	11	9	8	6	4	3	33	35	
516.920	3.634	15	9	8	7	6	4	3	33	34	km 516 = 800m
516.840	3.641	11	5	4	3	3	2	2	33	34	
516.745	3.627	11	6	6	5	4	3	2	33	34	
516.679	3.655	14	7	5	5	4	3	2	33	34	
516.588	3.655	12	7	6	5	4	3	3	33	34	
516.517	3.634	15	8	6	5	4	3	2	33	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
516,440	3,627	13	8	6	5	4	3	3	33	34	
516,359	3,634	14	8	7	6	5	3	3	33	34	
516,278	3,641	16	13	11	9	7	4	3	33	34	
516,198	3,634	17	13	11	9	7	4	3	33	34	
516,117	3,655	17	13	12	10	7	5	3	33	34	
515,880	3,641	17	12	10	9	7	5	3	33	34	km 515 = 963m
515,799	3,612	17	13	10	9	6	4	3	33	34	
515,720	3,612	16	11	9	8	6	4	3	33	34	
515,640	3,627	17	12	10	9	7	5	4	33	34	
515,557	3,612	12	8	7	6	5	4	3	33	34	
515,478	3,605	21	16	15	13	10	7	5	33	33	
515,399	3,605	22	17	15	13	10	7	5	33	33	
515,320	3,569	20	15	13	12	9	6	5	33	33	
515,240	3,598	16	15	13	11	9	6	4	33	33	
515,162	3,641	18	14	13	11	9	6	4	33	33	
515,080	3,605	31	24	21	18	13	8	5	33	33	
515,000	3,619	14	12	11	10	7	5	4	33	33	
514,919	3,605	21	16	14	12	9	6	4	33	33	km 514 = 1000m
514,838	3,612	27	23	20	17	12	7	5	33	33	
514,758	3,605	22	18	16	13	10	7	5	33	34	
514,677	3,627	16	12	11	9	7	5	4	33	33	
514,597	3,619	28	21	17	15	11	7	5	32	34	
514,520	3,605	28	19	16	14	11	7	6	32	34	
514,438	3,619	26	18	15	13	10	6	5	32	34	
514,360	3,634	17	12	10	9	7	5	4	32	33	
514,280	3,605	22	17	15	13	9	6	4	32	34	
514,200	3,627	22	15	12	10	7	4	3	32	34	
514,122	3,612	25	18	15	13	10	6	5	32	34	
514,041	3,619	19	12	11	9	7	5	3	32	34	
513,880	3,605	24	16	13	11	8	5	4	32	34	km 513 = 940m
513,799	3,605	21	13	11	10	8	5	4	32	34	
513,719	3,612	24	17	14	13	10	7	5	32	34	
513,639	3,619	19	13	10	8	6	4	3	32	34	
513,559	3,576	27	18	15	13	10	6	5	32	34	
513,478	3,562	26	17	15	13	10	6	5	32	34	
513,397	3,598	15	9	7	6	5	3	2	32	34	
513,320	3,605	18	13	11	10	8	6	5	32	34	
513,239	3,627	19	10	7	5	4	2	2	32	34	
513,160	3,612	23	16	13	11	8	5	4	32	34	
513,079	3,634	12	6	5	4	3	2	2	32	34	
513,000	3,583	16	11	10	9	8	5	5	32	34	
512,919	3,591	17	10	9	8	7	5	4	32	34	km 512 = 1000m
512,839	3,591	19	11	9	8	6	4	3	32	34	
512,759	3,591	21	14	12	10	8	5	4	32	34	
512,678	3,576	25	14	11	8	6	4	3	32	34	
512,599	3,526	29	19	15	12	9	5	3	32	34	
512,519	3,562	22	13	12	10	9	6	5	32	34	
512,440	3,605	16	10	8	7	6	4	4	32	34	
512,362	3,619	25	16	14	12	9	6	4	32	34	
512,281	3,598	25	14	12	10	8	5	4	32	34	
512,198	3,605	17	11	8	7	6	4	4	32	34	
512,118	3,591	24	13	12	10	8	6	4	32	34	
512,038	3,619	17	9	8	7	6	5	4	32	34	
511,960	3,612	19	11	10	9	7	5	4	32	34	km 511 = 1000m
511,880	3,612	21	13	11	10	8	5	4	32	34	
511,798	3,627	16	9	8	7	6	4	4	32	34	
511,720	3,612	21	12	11	10	8	6	6	32	34	
511,643	3,612	23	16	15	13	11	8	6	32	34	
511,563	3,583	27	20	18	16	13	9	7	32	34	
511,483	3,591	20	14	13	11	9	6	5	32	34	
511,403	3,576	23	15	13	12	9	6	5	32	35	
511,323	3,598	20	12	11	10	8	5	4	32	34	
511,237	3,583	23	16	15	13	11	8	6	32	34	
511,163	3,591	20	11	9	8	6	4	3	32	34	
511,080	3,612	15	10	8	7	6	4	3	32	34	
511,000	3,598	20	14	13	12	10	7	6	32	34	
510,920	3,612	21	15	13	11	9	7	5	32	34	km 510 = 942m
510,840	3,619	16	12	10	8	6	4	4	32	35	
510,758	3,605	26	16	13	11	9	6	4	32	34	
510,679	3,598	25	15	14	12	10	7	6	32	34	
510,598	3,591	31	21	19	17	14	10	8	32	34	
510,519	3,598	19	13	12	11	9	6	5	32	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9						DATA: fev/2007			
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
510,437	3,591	26	16	14	12	10	7	6	32	34	
510,360	3,605	22	13	11	10	8	5	4	32	34	
510,280	3,583	35	25	21	17	13	8	6	32	34	
510,200	3,612	29	21	19	16	12	8	6	32	34	
510,121	3,627	24	15	14	12	10	7	6	32	33	
510,040	3,670	36	25	21	17	12	8	6	32	33	
509,959	3,692	15	10	9	9	7	5	4	32	33	km 509 = 1065m
509,960	3,684	16	10	8	7	6	5	4	32	34	
509,879	3,641	31	24	21	18	14	9	7	32	33	
509,802	3,699	14	9	7	6	5	3	3	32	33	
509,722	3,684	15	11	10	10	8	6	5	32	34	
509,642	3,634	26	19	16	13	10	7	5	32	34	
509,580	3,627	38	25	20	16	11	6	5	32	34	
509,481	3,591	38	29	26	22	16	10	8	32	33	
509,402	3,648	19	14	12	11	8	6	4	32	33	
509,320	3,634	17	10	9	8	6	4	3	32	33	
509,243	3,612	16	11	10	9	7	5	5	32	33	
509,160	3,619	22	16	14	13	10	7	6	32	33	
509,080	3,634	21	14	12	10	8	5	4	32	33	
509,000	3,648	16	9	8	7	6	4	3	32	33	
508,840	3,641	16	12	10	9	7	4	3	32	33	km 508 = 880m
508,757	3,619	26	16	14	11	9	6	4	32	33	
508,679	3,634	28	22	19	16	11	7	5	32	33	
508,598	3,634	28	20	17	14	11	7	5	32	33	
508,517	3,655	20	14	12	11	8	6	4	32	33	
508,440	3,648	24	15	14	12	10	7	6	32	33	
508,359	3,648	20	13	11	10	9	6	6	32	33	
508,283	3,627	23	14	12	11	8	5	4	32	33	
508,199	3,648	20	14	12	10	7	5	3	32	33	
508,119	3,655	16	8	7	6	5	3	3	32	33	
508,028	3,619	22	16	14	13	10	7	5	32	33	
507,958	3,627	25	17	15	13	11	8	7	32	33	km 507 = 1100m
507,880	3,627	25	16	13	11	9	6	4	32	33	
507,800	3,627	27	18	15	13	10	7	5	32	33	
507,719	3,619	24	21	18	16	12	8	6	32	33	
507,639	3,612	29	21	18	14	11	7	5	32	33	
507,558	3,648	17	10	8	7	6	4	3	32	33	
507,478	3,627	17	13	11	9	7	5	4	32	33	
507,397	3,634	14	9	8	7	6	4	4	32	34	
507,320	3,627	22	14	12	10	7	5	4	32	33	
507,237	3,619	23	18	15	13	10	7	5	32	33	
507,158	3,627	19	10	9	8	6	4	4	32	33	
507,080	3,641	20	13	11	10	7	5	4	32	33	
507,000	3,627	20	11	10	9	7	5	5	32	33	
506,760	3,627	18	13	11	9	8	5	5	32	33	km 506 = 822m
506,680	3,619	26	18	16	14	11	8	6	32	33	
506,600	3,627	20	12	10	9	7	5	4	32	33	
506,519	3,641	20	15	13	11	8	6	4	32	34	
506,439	3,598	31	28	24	21	16	11	9	32	33	
506,358	3,598	33	28	25	21	17	12	10	32	33	
506,280	3,641	19	15	13	11	9	6	5	32	33	
506,203	3,634	19	14	12	10	8	5	4	32	34	
506,122	3,619	21	12	11	10	8	5	4	32	34	
506,041	3,591	45	34	28	22	15	9	6	32	34	
505,960	3,619	25	18	15	13	9	6	5	32	33	km 505 = 1023m
505,880	3,619	22	16	13	11	8	5	4	32	34	
505,803	3,641	16	10	8	6	5	3	3	32	34	
505,722	3,619	24	14	12	10	7	5	4	32	33	
505,642	3,605	28	19	16	13	10	6	5	32	33	
505,560	3,612	31	22	17	13	9	6	4	32	33	
505,480	3,612	27	20	16	12	9	5	4	32	34	
505,401	3,605	29	20	16	13	9	5	4	32	34	
505,319	3,576	54	37	27	21	13	7	6	32	34	
505,240	3,555	56	44	35	27	18	11	7	32	34	
505,159	3,612	23	17	14	11	8	5	4	32	33	
505,079	3,605	6	4	3	3	3	2	2	32	34	
505,000	3,670	24	19	17	14	10	7	4	27	30	km 504 = 1040m
504,920	3,670	26	19	16	13	9	6	4	27	30	
504,840	3,612	57	42	35	26	17	10	7	27	30	
504,758	3,634	59	51	43	34	23	13	8	27	30	
504,679	3,663	31	27	22	18	13	8	6	27	31	
504,599	3,706	16	10	8	7	5	3	3	27	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
504,518	3.684	22	16	13	11	8	5	4	27	31	
504,440	3.699	17	13	11	9	6	4	3	27	31	
504,358	3.663	14	10	9	8	7	5	4	27	31	
504,280	3.670	13	9	7	6	5	4	3	27	32	
504,202	3.699	13	8	7	6	4	3	2	27	31	
504,121	3.699	14	12	10	9	7	5	4	27	32	
504,041	3.699	12	7	7	6	5	3	3	27	32	
503,959	3.692	17	13	11	10	8	6	5	27	32	km 503 = 1000m
503,878	3.706	14	9	8	7	6	4	3	27	32	
503,792	3.655	12	10	9	8	7	5	4	27	33	
503,720	3.670	8	5	4	4	3	3	2	27	32	
503,638	3.706	9	6	5	5	4	3	2	27	33	
503,559	3.706	11	7	6	5	4	3	3	27	33	
503,480	3.699	19	13	10	8	5	3	3	27	33	
503,401	3.677	29	18	15	12	8	5	3	27	33	
503,320	3.655	51	42	32	24	15	8	5	27	33	
503,239	3.670	38	26	20	15	10	6	4	27	33	
503,158	3.684	12	7	6	5	4	3	2	27	33	
503,078	3.677	29	20	17	13	9	6	4	27	34	
503,000	3.684	20	14	12	10	7	4	3	27	33	
502,920	3.699	17	11	9	8	6	4	3	27	34	km 502 = 970m
502,840	3.670	11	5	4	3	2	2	1	27	33	
502,759	3.655	13	8	7	6	4	3	2	27	34	
502,679	3.663	24	15	12	9	6	4	3	27	34	
502,599	3.655	25	15	11	8	6	3	3	27	34	
502,520	3.619	42	32	27	22	16	10	7	27	34	
502,440	3.634	23	17	14	11	8	6	5	27	34	
502,359	3.684	15	11	9	7	6	4	3	27	34	
502,278	3.677	14	9	7	6	4	3	2	27	33	
502,198	3.663	23	13	11	8	5	3	2	27	34	
502,120	3.684	17	11	8	6	4	3	2	27	34	
502,040	3.677	25	17	13	9	6	4	3	27	34	
501,800	3.684	25	18	13	10	6	4	3	27	34	km 501 = 804m
501,719	3.692	19	12	10	8	5	3	3	27	34	
501,638	3.648	28	20	17	13	9	6	4	27	34	
501,558	3.655	21	15	12	9	6	4	3	32	34	
501,480	3.655	33	22	17	13	8	4	3	32	34	
501,399	3.655	26	19	15	12	8	5	3	32	34	
501,320	3.598	47	31	24	19	12	6	5	32	34	
501,240	3.627	27	18	14	10	6	4	3	32	34	
501,160	3.605	42	28	23	18	12	8	6	32	34	
501,080	3.648	29	20	16	13	9	5	4	32	34	
501,000	3.634	33	25	20	15	10	7	5	32	34	
500,920	3.634	32	21	17	13	10	6	5	33	34	km 500 = 1142m
500,907	3.670	17	10	9	7	6	4	4	33	34	
500,840	3.670	39	26	21	16	11	7	5	33	34	
500,759	3.670	35	25	20	16	11	7	5	33	34	
500,681	3.634	32	23	19	16	10	6	5	33	34	
500,598	3.663	23	16	13	11	8	5	4	33	34	
500,518	3.634	33	23	19	16	11	7	5	33	35	
500,440	3.655	22	15	13	10	7	5	4	33	35	
500,359	3.670	24	15	13	11	8	6	4	33	34	
500,279	3.677	22	16	14	11	8	5	4	33	34	
500,197	3.655	30	20	17	14	10	7	6	33	34	
500,120	3.655	30	22	19	16	12	8	5	33	34	
500,043	3.655	29	22	19	16	12	8	7	33	35	
499,960	3.663	17	11	10	8	6	4	3	33	34	km 499 = 1000m
499,879	3.648	39	29	24	20	14	9	6	33	34	
499,798	3.655	31	22	18	14	10	6	5	33	34	
499,718	3.663	31	21	17	13	9	6	4	33	34	
499,640	3.684	23	16	13	10	8	5	4	33	34	
499,557	3.663	24	17	13	11	8	5	4	33	34	
499,479	3.670	34	22	17	13	8	5	4	33	34	
499,398	3.648	50	34	26	19	11	7	5	33	34	
499,320	3.663	34	23	18	14	9	5	3	33	34	
499,240	3.684	25	17	13	9	6	3	2	33	34	
499,160	3.677	22	14	11	8	5	3	2	33	34	
499,080	3.648	18	11	9	7	5	3	3	33	34	
499,000	3.555	33	25	20	14	9	6	5	33	35	km 498 = 960m
498,920	3.663	30	22	18	14	10	6	5	33	35	
498,838	3.670	21	14	11	9	6	4	3	33	34	
498,757	3.655	41	31	26	20	14	9	7	33	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9						DATA: fev/2007			
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
498,678	3,641	26	18	16	13	10	6	5	33	35	
498,598	3,663	25	21	18	15	12	8	6	33	35	
498,520	3,677	17	12	11	10	8	6	5	33	35	início de ponte km 498,440
498,359	3,569	54	44	36	30	19	10	7	33	35	fim de ponte km 498,400
498,278	3,547	75	62	53	42	27	15	8	33	35	
498,198	3,497	117	91	66	47	25	11	6	33	35	
498,120	3,569	97	77	57	40	20	9	6	33	34	
498,040	3,648	38	25	18	13	8	5	4	33	35	
497,880	3,612	40	25	18	12	8	5	4	33	35	km 497 = 951m
497,789	3,670	13	10	8	7	6	4	4	33	35	
497,717	3,634	11	6	6	5	4	3	3	33	35	
497,639	3,663	11	6	5	5	4	3	3	33	35	
497,558	3,655	10	6	5	5	4	3	3	33	34	
497,480	3,641	10	6	5	5	4	3	3	33	35	
497,399	3,663	12	8	7	6	5	3	3	33	35	
497,317	3,648	14	9	8	7	5	4	3	33	34	
497,240	3,634	20	13	11	10	7	5	4	33	35	
497,159	3,634	23	16	14	12	9	5	4	33	34	
497,079	3,641	15	10	9	7	6	4	3	33	34	
497,000	3,655	12	9	7	7	6	4	4	33	34	
496,919	3,663	15	11	9	8	6	5	4	33	34	km 496 = 1003m
496,838	3,670	13	9	8	8	6	5	4	33	34	
496,760	3,634	46	26	16	10	6	4	3	33	34	
496,678	3,605	36	19	15	11	8	6	5	33	34	
496,598	3,583	74	45	32	20	13	8	6	33	34	
496,520	3,598	48	31	21	13	8	5	4	33	34	
496,461	3,576	76	49	31	15	7	4	4	33	33	
496,359	3,612	54	35	26	17	10	5	4	33	34	
496,279	3,540	69	45	29	19	10	6	4	33	33	
496,200	3,583	43	27	19	13	8	5	4	33	33	
496,120	3,612	64	40	26	16	9	6	5	33	33	
496,040	3,540	85	48	32	20	12	8	7	33	33	
495,960	3,533	84	44	26	15	8	4	4	33	33	km 495 = 980m
495,880	3,598	37	22	17	12	8	5	5	33	33	
495,801	3,562	33	24	19	14	10	6	5	33	33	
495,720	3,583	57	41	32	23	14	8	6	33	33	
495,640	3,576	65	48	32	22	11	6	5	33	33	
495,561	3,547	55	23	13	7	5	3	3	33	33	
495,477	3,612	24	8	5	4	3	1	1	33	33	
495,400	3,619	56	38	18	10	4	2	2	33	33	
495,320	3,619	24	17	10	7	5	4	3	33	33	
495,240	3,605	40	25	18	13	9	6	5	33	34	
495,161	3,446	144	88	49	28	10	5	4	33	33	
495,081	3,518	102	68	48	34	22	13	9	33	33	
495,000	3,555	75	43	28	18	11	7	6	33	33	
494,919	3,569	69	37	24	15	9	6	5	33	34	km 494 = 1235m
494,839	3,627	25	24	11	7	5	4	3	33	33	
495,000	3,655	11	6	6	5	4	3	3	33	33	
494,920	3,641	11	7	7	6	5	3	3	33	33	
494,839	3,569	76	41	22	11	6	4	3	33	33	
494,757	3,641	29	21	17	14	10	7	5	33	34	
494,679	3,655	19	12	9	8	6	5	4	33	33	
494,598	3,670	11	6	5	4	4	2	2	33	33	
494,518	3,663	13	8	7	6	5	3	3	33	33	
494,440	3,663	10	6	5	4	3	3	2	33	33	
494,360	3,655	11	7	6	5	4	3	3	33	33	
494,279	3,641	14	10	7	7	6	4	4	33	33	
494,198	3,634	16	11	10	9	7	5	4	32	33	
494,118	3,663	13	8	7	6	5	4	3	32	33	
494,040	3,663	19	13	9	7	6	4	3	32	33	
493,960	3,648	15	9	8	7	6	5	4	32	33	km 493 = 742m
493,879	3,641	11	7	6	5	4	3	3	32	33	
493,798	3,663	16	12	10	8	6	4	4	32	33	
493,718	3,648	19	14	12	10	8	5	5	32	33	
493,638	3,677	11	9	8	7	6	5	4	32	33	
493,560	3,670	10	6	5	5	4	3	3	32	33	
493,479	3,655	14	10	9	8	6	5	4	32	33	
493,399	3,655	12	8	7	6	5	4	3	32	33	
493,320	3,641	11	7	6	6	5	4	3	32	33	
493,000	3,634	14	10	9	8	7	5	4	32	33	
492,919	3,634	12	9	8	7	6	5	4	32	33	km 492 = 1000m
492,840	3,598	26	16	11	9	8	5	5	32	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 597 ao km 470,5 / 445,6 ao km 442,9						DATA: fev/2007			
PISTA: Dupla / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
492,763	3.641	13	8	8	7	6	4	4	32	33	
492,680	3.627	14	9	8	7	6	4	3	32	33	
492,598	3.648	10	7	6	5	4	3	3	32	33	
492,518	3.641	12	8	7	6	5	4	4	32	33	
492,437	3.648	11	7	6	5	4	3	3	32	33	
492,360	3.655	13	9	8	7	6	4	4	32	33	
492,280	3.641	16	9	8	6	5	4	3	32	33	
492,199	3.634	18	13	12	11	10	7	6	32	33	
492,118	3.641	7	5	4	3	3	2	3	32	33	
492,038	3.648	13	8	7	6	5	3	3	32	33	
492,000	3.655	13	10	9	8	7	5	5	32	33	
491,919	3.619	10	7	6	5	5	3	3	32	33	km 491 = 968m
491,838	3.605	40	27	20	15	10	7	6	32	33	
491,758	3.663	11	7	6	6	5	3	3	32	33	
491,680	3.663	11	6	5	4	4	3	2	32	33	
491,599	3.634	18	11	10	8	6	5	4	32	33	
491,518	3.641	15	10	8	7	5	4	3	32	33	
491,438	3.648	17	12	11	9	8	5	4	32	33	
491,358	3.663	16	12	10	8	6	4	3	32	33	
491,280	3.648	14	10	8	7	6	4	4	32	33	
491,200	3.634	13	9	7	6	5	3	3	32	33	
491,121	3.634	14	9	7	6	4	3	2	32	33	
491,000	3.648	12	8	6	6	4	3	3	32	33	
491,000	3.778	12	8	6	5	4	3	3	32	33	km 490 = 1160m
490,920	3.749	14	10	8	7	6	5	4	32	33	
490,837	3.756	11	8	7	6	6	4	4	32	33	
490,920	3.749	11	6	5	4	3	3	2	32	32	
490,838	3.728	9	5	4	4	3	3	3	32	32	
490,760	3.706	15	11	9	8	6	5	4	32	33	
490,680	3.713	15	10	8	7	5	4	3	32	33	
490,599	3.699	21	13	10	7	4	3	2	32	32	
490,519	3.699	12	8	6	5	4	2	2	32	33	
490,439	3.706	11	7	6	5	4	3	3	32	32	
490,358	3.692	12	7	6	5	4	3	3	32	33	
490,277	3.699	15	10	8	6	5	3	3	32	33	
490,200	3.677	30	21	16	12	8	5	4	32	33	
490,120	3.670	47	27	17	9	4	2	1	32	33	
490,025	3.692	14	9	8	6	5	4	3	32	32	
489,958	3.677	9	6	5	4	3	2	2	32	33	km 489 = 1032m
489,877	3.684	11	8	6	5	4	3	3	32	33	
489,788	3.706	10	7	6	5	5	3	3	32	32	
489,721	3.692	8	4	3	3	2	2	1	32	33	
489,640	3.663	10	7	6	5	4	3	3	32	33	
489,560	3.677	10	7	6	6	5	3	3	32	33	
489,478	3.655	10	6	5	4	3	2	2	32	32	
489,400	3.692	8	6	5	4	3	2	2	32	32	
489,318	3.677	12	8	7	5	4	3	2	32	32	
489,240	3.598	64	47	31	17	7	3	3	32	32	
489,160	3.641	51	30	22	15	7	5	4	32	32	
489,081	3.720	10	7	5	4	3	2	1	32	32	
489,000	3.670	24	17	14	10	7	4	4	32	33	
488,920	3.663	41	30	21	14	10	6	6	32	33	km 488 = 1083m
488,920	3.663	20	17	16	14	11	8	7	32	32	
488,840	3.677	13	8	7	6	5	3	3	32	32	
488,759	3.627	37	25	20	15	10	6	4	32	32	
488,676	3.663	15	11	10	9	7	5	5	32	32	
488,598	3.670	19	13	11	9	8	6	6	32	32	
488,519	3.634	29	19	15	12	8	4	2	32	33	
488,437	3.670	21	17	13	9	6	4	3	32	33	
488,360	3.699	14	10	8	7	5	4	3	32	32	
488,279	3.677	14	10	8	7	6	4	4	32	33	
488,199	3.663	14	10	9	8	7	5	5	32	32	
488,117	3.641	20	15	14	12	10	7	6	32	32	
488,039	3.670	17	14	12	10	9	6	6	32	32	
487,957	3.663	17	11	10	8	6	5	4	32	32	km 487 = 1240m
487,877	3.670	19	15	12	10	7	5	3	32	32	
487,797	3.684	16	12	10	9	6	4	3	32	32	
487,880	3.619	12	8	7	6	5	4	3	32	32	
487,801	3.684	15	10	8	7	5	3	3	32	32	
487,720	3.634	69	43	29	15	6	4	4	32	31	
487,640	3.677	15	11	9	7	6	4	3	32	32	
487,560	3.641	42	25	14	9	5	3	3	32	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
487,480	3.490	44	14	12	10	5	3	3	32	32	
487,400	3.677	12	9	8	6	5	3	3	32	32	
487,320	3.670	13	10	9	7	5	4	3	32	31	
487,240	3.670	11	7	6	6	4	3	3	32	32	
487,160	3.677	15	9	7	5	4	3	3	32	32	
487,080	3.663	11	8	7	6	5	3	3	32	32	
486,997	3.684	12	8	7	5	4	3	2	32	31	km 486 = 1240m
486,916	3.677	16	9	8	6	4	3	2	32	31	
486,838	3.677	11	7	6	5	4	3	2	32	31	
487,000	3.663	14	8	7	5	4	3	2	32	32	
486,919	3.670	26	15	11	8	6	4	3	32	31	
486,839	3.692	12	7	6	5	4	2	2	32	31	
486,760	3.670	10	7	6	5	4	2	2	32	31	
486,680	3.684	10	7	6	5	4	3	2	32	31	
486,601	3.684	12	7	6	5	4	3	3	32	31	
486,520	3.677	13	7	6	5	4	3	2	32	31	
486,439	3.699	14	8	7	5	4	3	3	32	31	
486,359	3.663	13	8	7	6	5	3	3	32	31	
486,278	3.677	7	5	5	4	3	3	2	32	31	
486,200	3.706	9	5	5	4	4	3	2	32	23	
486,120	3.742	8	5	5	4	4	3	2	32	23	
486,040	3.728	8	6	5	5	4	3	2	22	24	
485,920	3.728	14	9	7	6	5	4	3	22	24	km 485 = 928m
485,841	3.728	9	5	5	4	3	2	2	22	23	
485,761	3.713	16	7	6	5	4	3	2	22	24	
485,680	3.713	10	7	6	5	4	3	2	22	24	
485,600	3.706	9	6	5	4	3	3	2	22	24	
485,519	3.728	7	5	4	4	3	2	2	22	24	
485,438	3.713	8	6	5	4	3	3	2	22	24	
485,358	3.728	15	8	7	6	4	3	2	22	25	
485,278	3.713	23	16	12	9	6	4	3	22	25	
485,200	3.742	12	7	6	5	4	3	3	22	25	
485,079	3.641	38	29	23	19	14	9	7	22	25	
485,000	3.720	11	8	7	6	5	4	4	22	25	
484,920	3.648	10	8	7	6	5	4	4	32	32	km 484 = 1000m
484,840	3.663	10	7	6	5	4	3	3	32	32	
484,761	3.655	11	6	6	5	4	3	3	32	32	
484,680	3.655	19	10	9	8	7	5	4	32	32	
484,601	3.670	9	7	6	6	5	3	3	32	32	
484,520	3.663	15	9	8	7	6	4	4	32	32	
484,439	3.641	13	8	7	6	5	4	3	32	32	
484,358	3.655	16	11	9	8	6	5	4	32	32	
484,279	3.663	11	7	6	5	4	3	2	32	32	
484,200	3.655	9	6	5	4	3	2	2	32	32	
484,120	3.677	10	7	5	4	3	2	1	32	32	
484,039	3.655	16	8	7	5	4	3	2	32	32	
483,960	3.670	8	6	5	4	3	2	2	32	32	km 483 = 1030m
483,879	3.670	5	4	3	3	2	2	2	32	32	
483,799	3.663	11	4	3	3	2	2	2	30	32	
483,720	3.605	31	17	12	8	5	3	3	30	32	
483,643	3.641	25	18	14	10	7	4	3	30	32	
483,560	3.605	35	24	19	14	9	6	5	30	32	
483,479	3.663	19	12	9	7	5	4	3	30	32	
483,399	3.670	14	10	7	6	4	3	2	30	32	
483,320	3.655	19	12	9	7	4	3	2	30	32	
483,238	3.619	52	34	24	15	7	3	2	30	32	
483,160	3.634	29	18	13	9	5	3	3	30	32	
483,066	3.619	29	19	15	11	8	5	4	30	32	
483,000	3.562	84	50	29	13	5	2	2	30	33	
482,918	3.641	38	23	16	11	6	3	2	30	32	km 482 = 906m
482,840	3.605	63	39	27	15	7	5	4	30	32	
482,760	3.627	35	24	18	13	8	5	4	30	33	
482,680	3.619	35	23	18	14	9	5	4	30	33	
482,603	3.569	66	39	25	15	6	3	3	30	32	
482,523	3.547	94	55	21	11	5	2	2	30	33	
482,441	3.591	69	44	29	17	8	3	2	30	33	
482,362	3.583	73	46	31	18	8	4	2	30	32	
482,281	3.605	33	16	10	7	4	3	2	30	32	
482,201	3.627	13	8	6	5	4	3	2	30	32	
482,123	3.583	27	17	13	10	7	4	4	30	33	
481,960	3.598	40	29	20	15	9	6	5	30	32	km 481 = 1031m
481,880	3.627	21	12	10	8	5	3	3	30	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9				DATA: fev/2007	
PISTA:	Dupla / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
481.797	3.670	11	7	6	5	4	3	2	30	32	
481.718	3.641	12	6	5	4	3	2	2	30	32	
481.640	3.663	12	8	7	6	4	3	2	30	32	
481.560	3.663	14	10	8	7	5	3	2	30	32	
481.480	3.670	14	10	9	7	6	4	3	30	32	
481.399	3.663	9	5	4	4	3	2	2	30	32	
481.318	3.583	37	20	14	9	5	3	2	30	32	
481.238	3.648	29	19	15	11	8	4	3	30	31	
481.157	3.619	45	25	16	10	6	3	3	30	32	
481.080	3.655	17	12	9	6	4	3	2	30	32	
481.000	3.627	27	18	14	11	8	5	4	30	31	
480.918	3.641	28	18	13	9	6	3	3	30	32	km 480 = 882m
480.840	3.670	15	10	8	6	4	3	2	30	32	
480.760	3.663	18	14	11	9	7	4	4	30	32	
480.678	3.641	16	10	8	7	6	4	4	30	32	
480.618	3.641	39	30	16	11	6	4	3	30	31	
480.520	3.627	37	23	17	10	5	3	3	30	31	
480.440	3.627	30	15	10	7	4	3	2	30	31	
480.358	3.641	10	6	5	4	3	2	2	30	31	
480.278	3.648	13	8	7	6	4	3	2	30	31	
480.200	3.627	34	24	19	15	10	6	5	30	31	
480.000	3.641	24	16	12	9	5	3	3	30	31	
479.920	3.648	26	16	11	7	5	3	2	30	30	km 479 = 1007m
479.838	3.670	11	7	6	5	4	3	3	30	31	
479.758	3.648	25	17	14	11	8	5	4	30	30	
479.678	3.663	15	10	8	7	5	3	2	30	31	
479.600	3.648	23	16	13	11	8	5	5	30	31	
479.520	3.655	17	12	10	8	6	4	4	30	30	
479.438	3.670	10	7	6	5	4	3	3	29	30	
479.358	3.634	24	16	12	9	6	4	3	29	30	
479.280	3.648	12	6	5	4	4	3	3	29	30	
479.199	3.627	48	30	21	13	8	5	4	29	30	
479.118	3.634	42	30	20	14	8	5	4	29	30	
479.000	3.641	23	16	13	11	8	5	4	29	30	
478.919	3.655	12	8	7	6	5	3	3	29	30	km 478 = 987m
478.838	3.591	40	20	14	9	7	4	4	29	30	
478.757	3.677	10	7	6	4	3	2	2	29	30	
478.680	3.670	27	21	15	10	5	3	2	29	30	
478.597	3.655	11	7	6	5	4	3	2	29	30	
478.521	3.641	11	7	7	6	5	4	4	29	30	
478.459	3.627	12	8	7	6	5	4	3	29	30	
478.359	3.619	12	8	7	6	5	4	3	29	30	
478.279	3.648	13	9	7	6	5	3	3	29	30	
478.200	3.655	15	11	10	9	7	5	5	29	30	
478.120	3.663	16	10	9	8	6	5	4	29	30	
478.037	3.648	13	9	8	7	5	4	3	29	30	
477.960	3.641	12	8	7	6	5	4	3	29	30	km 477 = 1012m
477.878	3.670	15	11	9	8	6	5	4	29	30	
477.800	3.655	10	6	6	5	4	3	2	29	31	
477.720	3.663	9	5	5	4	4	3	3	29	30	
477.640	3.648	12	7	6	5	5	4	3	29	30	
477.559	3.677	10	7	6	5	4	3	2	29	31	
477.479	3.670	8	6	5	4	3	2	2	29	31	
477.398	3.670	9	6	5	4	4	3	2	29	31	
477.317	3.677	10	7	6	5	4	3	2	29	30	
477.240	3.655	11	6	5	4	4	3	2	29	30	
477.159	3.670	17	12	10	8	6	4	3	29	31	
477.079	3.627	13	9	8	7	5	4	3	29	31	
477.000	3.648	13	10	9	8	6	4	4	29	31	
476.920	3.655	12	7	5	4	3	2	1	29	31	km 476 = 983m
476.838	3.670	10	6	5	4	3	2	1	29	31	
476.759	3.670	11	6	5	4	3	2	1	29	31	
476.678	3.648	10	4	3	3	2	2	1	29	31	
476.597	3.648	10	6	5	4	3	2	1	29	31	
476.517	3.641	10	6	5	4	2	1	1	29	31	
476.460	3.648	11	7	6	5	3	2	1	29	31	
476.360	3.619	11	6	5	5	4	3	3	29	31	
476.279	3.641	16	11	10	8	6	4	3	29	31	
476.199	3.655	14	10	8	6	4	3	2	29	31	
476.120	3.663	11	7	6	5	4	3	3	29	31	
476.037	3.641	11	8	7	6	5	3	3	29	30	
475.960	3.641	10	6	4	4	2	1	1	29	31	km 475 = 1045m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG			TRECHO:	km 597 ao km 470,5 / 445,6 ao km 442,9					DATA: fev/2007	
PISTA:	Dupla / Decrescente			FAIXA:	2						
SENTIDO:	MG/DF			ENSAIO:	a cada 80 m						
475,879	3.648	12	7	6	5	4	3	2	29	31	
475,799	3.670	11	7	5	4	3	2	2	29	31	
475,718	3.648	7	6	5	4	4	3	3	29	30	
475,638	3.670	7	4	3	3	3	2	2	29	30	
475,560	3.634	29	20	15	11	7	5	4	29	31	
475,480	3.648	24	14	10	7	4	2	1	29	31	
475,399	3.655	20	14	12	9	7	4	3	29	31	
475,318	3.562	79	51	35	22	13	8	6	29	31	
475,237	3.598	95	51	28	16	8	3	3	29	30	
475,160	3.612	59	42	31	21	11	6	4	29	31	
475,080	3.655	17	13	10	8	5	3	2	29	30	
475,000	3.627	17	8	6	5	4	3	3	29	30	
474,920	3.735	16	12	10	8	6	4	3	25	26	km 474 = 972m
474,837	3.728	10	9	8	7	6	5	4	25	26	
474,758	3.756	9	8	7	7	6	4	4	25	26	
474,680	3.764	9	7	7	6	5	4	4	25	26	
474,600	3.756	6	5	4	3	3	2	1	25	26	
474,520	3.742	9	5	5	4	3	2	1	25	26	
474,439	3.771	11	8	7	6	4	3	2	25	26	
474,358	3.785	9	8	7	6	5	3	3	25	26	
474,278	3.742	27	20	17	13	9	6	4	25	26	
474,200	3.785	9	6	5	5	4	3	2	25	27	
474,120	3.792	5	3	2	2	1	1	1	25	27	
474,041	3.771	11	8	7	6	5	3	2	25	27	
473,800	3.778	11	10	9	8	7	5	4	25	27	km 473 = 840m
473,721	3.792	13	9	8	7	5	4	2	25	27	
473,639	3.756	16	13	11	9	6	4	3	25	27	
473,558	3.756	9	7	6	5	4	3	2	25	27	
473,477	3.778	13	10	8	7	5	4	3	25	27	
473,400	3.785	9	7	6	5	4	3	2	25	28	
473,320	3.749	13	11	10	9	7	5	4	25	28	
473,238	3.713	29	23	19	15	12	8	6	25	28	
473,158	3.706	39	32	26	21	15	10	8	25	28	
473,078	3.764	11	10	9	8	7	5	4	25	28	
473,000	3.728	19	16	14	12	9	7	5	25	28	
472,943	3.713	11	8	7	6	5	4	3	25	28	km 472 = 1134m
472,920	3.728	10	8	7	6	4	3	3	25	28	
472,840	3.728	25	18	14	10	6	4	3	25	29	
472,759	3.785	10	7	6	5	4	2	2	25	29	
472,679	3.764	12	9	7	6	4	3	2	25	29	
472,598	3.749	14	11	10	8	6	4	3	25	29	
472,520	3.778	10	8	7	6	5	4	3	25	29	
472,440	3.756	14	10	9	7	5	4	3	25	29	
472,358	3.764	8	6	5	5	4	3	2	25	29	inicio de ponte km
472,198	3.735	29	19	13	8	4	3	2	25	29	fim de ponte km
472,117	3.728	24	17	14	11	7	4	3	25	30	
472,037	3.720	14	10	9	8	6	5	4	25	30	
471,880	3.749	16	12	10	9	7	5	4	25	30	km 471 = 962m
471,800	3.749	13	10	9	7	6	4	3	28	30	
471,719	3.756	16	12	10	8	5	3	3	28	30	
471,638	3.742	14	10	9	7	5	3	2	28	30	
471,559	3.728	21	16	13	11	8	5	4	28	30	
471,477	3.735	22	17	14	11	9	6	5	28	30	
471,396	3.720	27	20	16	12	9	5	4	28	30	
471,320	3.749	15	12	10	9	7	5	4	28	31	
471,239	3.735	22	17	14	12	9	6	5	28	30	
471,158	3.749	11	8	7	6	5	3	2	28	31	
471,077	3.742	13	8	7	6	5	4	3	28	30	
471,000	3.742	19	12	10	8	6	4	3	28	30	
470,919	3.749	23	17	14	11	8	5	4	28	31	km 470 = 1008m
470,839	3.742	17	13	11	9	7	5	4	28	31	
470,759	3.720	13	9	8	7	6	4	3	28	31	
470,678	3.713	21	15	13	11	8	5	4	28	31	
470,597	3.706	26	18	14	11	8	5	4	28	31	
470,520	3.692	21	16	13	10	7	4	3	28	31	
445,561	3.309	47	35	27	20	14	9	7	36	35	
445,480	3.281	27	17	12	9	6	4	3	36	35	
445,401	3.288	56	36	25	16	10	6	5	36	35	
445,322	3.288	50	33	22	15	9	6	5	36	35	
445,241	3.273	49	31	22	15	10	6	5	36	34	
445,161	3.245	72	47	35	25	15	9	7	36	34	inicio de ponte km 445,120

[illegible]

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA: BR-040 / MG
 PISTA: Multivia / Decrescente
 SENTIDO: MG/DF
 TRECHO: km 773,4 ao km 597,0
 FAIXA: 2
 ENSAIO: a cada 80 m
 DATA: fev/2007

km	Força (kgf)	Deflexões (0,01 mm)							Temp.		OBS
		D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
773,401	4.374	42	32	26	18	11	6	4	23	28	
773,319	4.356	71	53	42	29	18	12	8	25	28	
773,240	4.317	83	62	49	34	19	11	7	25	28	
773,161	4.337	83	62	50	36	23	14	8	25	29	
773,079	4.370	49	35	27	17	9	5	4	24	29	
773,000	4.355	77	59	48	33	18	10	6	24	29	
772,919	4.321	101	75	60	38	17	9	4	25	30	km 772 = 1000 m
772,839	4.299	138	103	78	47	23	12	9	24	29	
772,758	4.281	126	95	75	49	27	16	11	24	31	
772,679	4.330	113	87	64	39	24	16	11	25	30	
772,597	4.274	145	101	71	44	26	17	13	26	31	
772,520	4.280	114	84	61	38	23	14	9	25	27	
772,440	4.261	143	113	92	62	34	18	12	25	27	
772,359	4.222	201	155	124	86	51	28	15	26	29	
772,280	4.333	90	62	46	28	17	11	7	25	29	
772,199	4.310	99	72	52	29	15	8	5	25	28	
772,119	4.328	70	55	43	28	16	10	7	25	29	
772,040	4.280	97	65	47	31	19	13	9	25	29	
771,960	4.224	137	102	77	51	31	19	13	25	29	km 771 = 930 m
771,880	4.244	132	95	71	46	26	16	11	25	30	
771,800	4.228	146	104	78	52	33	21	14	24	29	
771,720	4.307	83	54	32	21	13	8	6	25	27	
771,640	4.301	73	46	32	18	10	6	4	24	30	
771,560	4.339	43	31	26	19	12	8	5	25	31	
771,479	4.366	22	17	15	12	9	7	5	25	29	
771,399	4.262	135	83	60	39	26	19	13	24	30	
771,320	4.330	98	61	41	23	12	7	6	25	30	
771,240	4.229	146	113	94	69	46	30	19	25	29	
771,160	4.262	108	77	57	38	25	17	12	24	29	
771,080	4.341	71	49	35	22	14	10	7	24	27	
771,000	4.286	91	58	38	22	12	7	5	24	28	
770,920	4.296	72	56	47	31	18	11	7	25	27	km 770 = 1000 m
770,840	4.194	181	142	116	84	55	34	20	25	30	
770,760	4.260	99	72	54	37	23	16	11	25	30	
770,680	4.196	160	118	90	62	38	20	11	25	29	
770,601	4.174	208	163	124	82	42	24	13	25	30	
770,518	4.185	154	118	92	65	41	24	15	25	31	
770,439	4.237	110	84	64	39	24	15	10	25	30	
770,358	4.176	191	147	116	81	50	29	16	25	30	
770,280	4.300	123	86	59	35	21	14	9	25	32	
770,199	4.267	91	64	47	29	17	11	8	25	31	
770,119	4.286	91	58	38	22	12	7	5	25	31	
770,038	4.309	86	56	35	19	8	3	1	25	28	
769,960	4.289	97	70	48	30	18	11	7	25	34	km 769 = 1000 m
769,880	4.255	115	82	56	31	20	13	9	24	33	
769,799	4.273	107	73	49	29	15	10	7	26	34	
769,719	4.267	100	65	45	27	16	11	8	25	33	
769,640	4.265	110	76	56	35	20	13	9	25	31	
769,560	4.282	88	58	38	20	10	6	4	25	32	
769,481	4.292	76	52	37	20	10	7	5	26	33	
769,400	4.298	54	32	20	11	7	5	4	26	29	
769,319	4.235	145	104	71	41	20	9	5	26	33	
769,240	4.286	102	73	54	35	22	15	11	25	34	
769,160	4.198	158	130	106	73	46	29	18	26	33	
769,080	4.228	129	96	68	41	23	15	11	25	35	
768,999	4.217	128	93	71	47	32	21	15	26	33	
768,919	4.216	145	113	90	60	34	20	12	26	35	km 768 = 1055 m
768,840	4.237	132	91	63	37	21	13	8	26	35	
768,760	4.262	100	75	60	41	25	15	9	26	31	
768,681	4.332	65	47	36	24	15	10	6	26	34	
768,599	4.288	117	80	54	33	19	11	7	26	33	
768,521	4.271	110	82	61	38	21	12	7	26	35	
768,441	4.315	72	48	32	18	10	7	5	27	36	
768,359	4.267	127	87	63	39	20	12	8	26	35	
768,280	4.325	80	56	41	24	13	8	5	27	35	
768,200	4.205	175	137	103	63	34	18	10	26	33	
768,120	4.334	62	40	27	16	10	7	5	26	35	
768,039	4.233	139	95	66	39	20	12	8	26	37	
767,958	4.257	122	79	50	26	13	8	6	26	37	km 767 = 1000 m
767,881	4.264	121	79	48	29	17	12	8	27	34	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
767,798	4,277	82	55	37	23	15	10	7	27	37	
767,719	4,230	79	64	56	39	25	14	9	27	33	
767,639	4,246	73	55	43	29	18	10	7	27	37	
767,560	4,296	80	58	37	21	13	9	6	28	38	
767,481	4,267	111	78	58	39	25	16	10	27	35	
767,400	4,226	122	100	78	50	30	18	12	28	36	
767,320	4,219	121	95	72	49	30	19	12	28	34	
767,240	4,244	93	68	54	36	21	11	7	27	38	
767,158	4,158	178	144	107	72	44	28	18	28	31	
767,080	4,265	81	58	41	25	14	10	7	28	38	
766,999	4,251	80	57	40	25	15	10	7	28	33	
766,919	4,269	85	53	34	19	10	6	4	28	38	km 766 = 1000 m
766,838	4,174	183	133	97	62	37	21	12	27	38	
766,758	4,237	131	87	60	35	20	12	8	28	40	início ponte km 766,703
766,599	4,311	50	34	27	19	12	7	5	27	29	fim ponte km 766,643
766,518	4,338	49	37	29	20	13	8	5	27	28	
766,439	4,244	109	83	62	36	18	10	6	28	41	
766,359	4,243	126	91	66	40	22	12	7	28	40	
766,279	4,243	94	68	51	33	19	12	8	29	41	
766,201	4,235	95	65	49	32	21	16	11	29	40	
766,119	4,294	84	52	33	18	10	7	5	29	41	
766,039	4,284	68	48	37	24	15	9	6	29	31	
765,960	4,237	116	88	70	47	30	19	13	29	42	km 765 = 1000 m
765,879	4,275	72	48	36	22	13	8	6	30	29	
765,801	4,185	123	92	68	43	25	16	10	30	42	
765,720	4,136	164	123	94	60	34	20	13	30	43	
765,639	4,120	164	125	96	62	35	22	14	31	43	
765,560	4,213	115	87	68	47	28	18	12	31	42	
765,480	4,165	157	109	76	47	27	17	11	31	42	
765,401	4,203	123	88	66	41	23	13	8	31	42	
765,319	4,193	137	100	79	55	37	25	17	31	43	
765,238	4,233	97	73	56	37	24	16	11	32	44	
765,160	4,347	64	49	40	28	20	14	10	31	29	
765,081	4,274	84	59	44	23	15	11	9	32	34	
765,000	4,286	124	93	69	45	27	20	14	31	31	
764,920	4,172	168	133	109	79	52	34	23	32	42	km 764 = 1000 m
764,840	4,195	119	83	54	27	14	9	6	32	44	
764,760	4,241	68	45	30	17	10	7	6	32	46	
764,680	4,240	71	60	45	29	18	12	8	33	47	
764,599	4,266	85	62	44	29	18	13	9	32	46	
764,519	4,247	90	66	49	34	21	14	9	32	48	
764,440	4,231	116	95	75	51	30	18	12	33	49	
764,357	4,268	104	78	61	42	26	16	10	32	50	
764,280	4,295	84	61	43	26	14	9	6	33	50	
764,197	4,197	128	107	85	58	35	20	12	33	49	
764,118	4,252	79	56	39	21	11	6	4	33	50	
764,037	4,200	90	67	47	25	11	6	4	33	51	
763,960	4,225	111	66	43	24	14	10	7	32	51	km 763 = 1000 m
763,878	4,223	99	67	47	29	18	12	9	33	50	
763,799	4,265	101	71	50	27	14	8	6	33	44	
763,719	4,238	65	51	44	34	26	19	14	33	47	
763,638	4,267	86	61	46	28	16	10	7	32	33	
763,559	4,202	104	73	50	28	15	9	6	33	43	
763,480	4,252	77	57	46	29	19	13	9	33	48	
763,400	4,254	57	44	34	24	17	11	8	33	47	
763,319	4,231	96	63	43	23	11	7	5	32	50	
763,241	4,222	85	58	40	24	15	10	7	33	46	
763,160	4,258	79	55	40	24	14	9	6	33	48	
763,079	4,204	94	71	55	39	26	18	13	33	46	
762,999	4,247	68	52	42	31	20	14	9	32	46	
762,919	4,223	82	60	47	32	20	12	7	33	49	km 762 = 1015 m
762,839	4,211	80	59	44	26	14	9	7	33	51	
762,760	4,196	110	79	57	35	21	13	8	33	49	
762,679	4,159	147	111	86	58	34	19	11	34	49	
762,599	4,190	100	75	54	36	24	16	11	33	49	
762,519	4,238	78	58	45	30	19	13	10	33	49	
762,440	4,225	136	110	90	62	39	25	15	33	41	
762,359	4,211	123	100	77	53	33	21	13	33	41	
762,280	4,211	113	86	67	46	30	20	13	32	50	
762,199	4,211	99	73	56	38	26	19	14	33	49	
762,121	4,265	80	54	41	26	17	12	9	33	33	
762,040	4,240	59	44	34	23	15	11	8	33	48	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
761.960	4.215	95	70	56	38	23	15	10	33	43	km 761 = 985 m
761.880	4.243	54	40	33	23	15	9	6	33	41	
761.802	4.233	81	57	43	27	16	11	9	33	45	
761.720	4.179	110	83	66	43	25	15	10	32	43	
761.640	4.217	109	78	58	35	20	13	9	33	47	
761.559	4.177	121	90	69	43	24	15	10	33	47	
761.480	4.313	58	39	27	18	12	9	6	33	35	
761.399	4.281	56	40	28	19	12	9	6	33	46	
761.320	4.308	35	23	17	10	7	5	4	33	38	
761.240	4.256	71	51	40	25	15	10	7	33	46	
761.158	4.260	57	40	30	18	10	7	5	32	44	
761.080	4.245	74	55	43	28	16	10	6	34	48	
760.999	4.218	79	62	50	36	23	13	8	33	44	
760.919	4.217	80	59	47	33	21	14	10	33	47	km 760 = 990 m
760.839	4.236	69	46	34	23	13	8	5	33	50	
760.762	4.260	58	39	27	18	10	6	3	34	47	
760.681	4.163	108	81	64	42	23	11	4	33	47	
760.601	4.238	59	41	32	23	16	11	8	33	48	
760.519	4.148	136	109	89	62	39	23	13	32	46	
760.440	4.208	92	67	56	43	30	20	12	33	48	
760.358	4.109	162	129	106	80	54	35	21	33	45	
760.277	4.155	127	99	81	60	39	25	15	33	45	
760.199	4.229	69	46	33	21	12	7	5	32	45	
760.119	4.252	38	27	18	11	7	4	3	33	45	
760.040	4.270	46	36	32	24	14	8	6	33	45	
759.961	4.233	100	74	56	36	21	12	8	33	44	km 759 = 1000 m
759.880	4.207	115	87	68	46	30	20	14	33	43	
759.799	4.215	81	57	41	26	15	10	7	32	40	
759.717	4.256	73	47	32	20	13	9	7	33	42	
759.638	4.222	84	60	46	30	18	11	7	33	41	
759.560	4.204	105	71	54	36	23	15	10	32	42	
759.481	4.141	154	109	84	58	38	25	17	33	45	
759.399	4.236	59	36	24	15	11	8	6	33	42	
759.319	4.155	126	92	71	50	34	23	15	33	42	
759.240	4.112	187	143	114	79	49	31	19	32	42	
759.160	4.172	148	107	78	46	22	10	6	33	42	
759.081	4.159	119	86	68	49	32	20	13	33	44	
758.999	4.213	64	44	33	21	13	9	6	33	44	
758.919	4.180	116	79	57	36	22	15	10	33	45	km 758 = 1000 m
758.840	4.162	127	85	63	43	28	18	12	32	43	
758.758	4.232	70	49	36	22	12	7	5	32	46	
758.680	4.225	103	64	45	27	15	9	6	32	45	
758.599	4.207	99	66	49	31	19	12	8	33	46	
758.518	4.202	117	80	58	37	21	12	7	33	45	
758.438	4.211	101	67	46	27	16	9	6	33	45	
758.360	4.216	92	64	47	29	17	11	7	33	44	
758.279	4.202	142	92	62	33	15	7	4	33	46	
758.200	4.245	79	45	27	11	3	1	0	33	45	
758.120	4.225	85	53	32	17	9	5	3	33	44	
758.040	4.279	47	26	15	8	4	3	3	33	44	
757.959	4.222	107	81	65	46	30	19	12	33	44	km 757 = 1010 m
757.877	4.232	71	50	35	20	11	7	5	33	44	
757.799	4.218	77	55	41	27	17	12	9	33	46	
757.720	4.221	83	57	44	30	19	12	8	32	46	
757.640	4.264	47	31	24	16	10	6	5	33	47	
757.560	4.272	57	36	24	15	9	6	4	33	46	
757.479	4.215	97	52	32	20	14	9	6	33	46	
757.399	4.163	150	102	71	43	25	15	9	33	46	
757.318	4.164	161	104	71	41	20	12	8	33	46	
757.239	4.247	120	78	52	25	10	6	4	33	46	
757.160	4.220	97	68	50	30	17	11	8	32	46	
757.081	4.282	25	17	15	11	8	6	4	33	48	
756.999	4.318	27	21	19	15	11	8	5	33	45	
756.920	4.232	61	48	41	29	19	12	8	33	46	km 756 = 1000 m
756.838	4.225	57	40	32	22	15	11	8	33	37	
756.762	4.259	60	41	30	20	14	11	9	33	42	
756.681	4.250	69	41	27	15	10	7	5	32	42	
756.597	4.224	91	56	38	25	17	13	10	33	46	
756.519	4.162	141	95	68	41	22	12	8	33	45	
756.439	4.239	66	46	34	22	13	9	6	33	45	
756.359	4.260	37	23	18	13	9	6	5	33	43	
756.280	4.243	102	69	53	35	23	15	10	33	48	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
756,199	4.184	76	48	34	24	16	11	8	33	42	início ponte km 756,143
756,031	4.274	51	34	27	19	13	10	7	33	46	fim ponte km 756,061
755,958	4.268	13	12	11	9	6	5	3	32	41	km 755 = 1000 m
755,880	4.307	38	29	26	19	13	9	6	33	42	
755,799	4.246	43	33	31	26	20	14	9	33	39	
755,719	4.254	32	23	19	15	11	8	6	33	46	
755,639	4.266	54	44	40	32	22	15	10	33	45	
755,560	4.237	62	45	37	26	15	8	5	33	48	
755,479	4.229	40	28	24	18	13	8	5	33	47	
755,400	4.270	22	26	22	18	13	10	6	33	45	
755,319	4.221	95	54	34	15	5	1	1	32	43	
755,240	4.200	114	84	68	47	29	17	11	33	44	
755,157	4.278	67	41	31	19	9	5	3	33	44	
755,080	4.193	138	85	53	27	13	6	4	33	45	
755,001	4.148	158	98	69	41	22	11	7	33	45	
754,919	4.235	68	48	38	25	14	8	5	33	46	km 754 = 1000 m
754,840	4.239	64	41	30	17	8	4	3	32	44	
754,759	4.162	98	78	59	39	22	14	9	33	45	
754,681	4.243	20	16	15	13	11	9	6	32	47	
754,599	4.275	16	13	13	12	10	8	6	33	46	
754,519	4.245	38	31	28	22	15	10	6	33	45	
754,438	4.171	84	63	53	37	23	14	10	33	42	
754,359	4.211	97	70	56	38	22	13	8	32	42	
754,279	4.205	124	92	71	48	29	16	10	33	40	
754,199	4.227	66	52	46	35	22	13	8	33	43	
754,119	4.202	80	64	51	35	21	13	9	33	45	
754,040	4.235	126	92	71	47	28	16	10	33	44	
753,960	4.205	126	90	62	36	21	13	8	33	39	km 753 = 1000 m
753,879	4.230	129	92	65	41	25	16	11	32	42	
753,799	4.275	88	59	44	28	17	11	8	32	42	
753,719	4.304	29	16	10	8	7	6	5	33	43	
753,639	4.294	40	18	12	10	8	7	6	33	44	
753,558	4.293	30	17	12	10	9	8	7	32	41	
753,477	4.292	28	15	11	9	8	7	6	32	41	
753,399	4.273	52	34	25	16	10	7	5	32	43	
753,320	4.223	87	57	36	18	10	8	6	31	43	
753,237	4.235	85	54	39	22	11	6	4	32	43	
753,158	4.246	78	50	35	21	12	8	5	32	42	
753,081	4.230	68	42	30	20	12	8	6	31	39	
753,001	4.232	95	65	46	27	15	9	6	32	37	
752,919	4.237	76	51	35	20	12	8	6	31	40	km 752 = 1020 m
752,840	4.218	98	69	48	29	17	11	8	31	42	
752,762	4.282	59	40	29	16	11	8	7	32	39	
752,681	4.245	87	58	40	23	15	11	8	32	41	
752,599	4.261	80	55	42	26	15	10	7	32	41	
752,519	4.246	81	54	39	23	14	10	8	31	40	
752,440	4.193	90	59	43	27	16	9	7	31	40	
752,358	4.194	110	74	52	33	19	11	7	31	34	
752,279	4.178	124	89	70	45	25	13	8	31	34	
752,201	4.248	84	55	38	21	10	5	3	31	37	
752,121	4.245	88	52	32	14	4	2	3	31	37	
752,040	4.196	113	74	51	30	17	10	7	32	38	
751,958	4.184	118	79	57	35	20	12	8	31	36	km 751 = 1000 m
751,879	4.266	69	50	40	28	18	11	8	32	35	
751,799	4.280	50	33	24	14	8	6	4	32	34	
751,718	4.200	91	61	44	27	16	11	8	32	37	
751,641	4.290	66	42	30	18	10	7	5	32	31	
751,559	4.194	104	73	55	37	25	18	13	32	35	
751,481	4.245	81	56	41	26	15	10	7	31	35	
751,399	4.191	107	79	61	41	25	15	9	31	35	
751,318	4.211	88	56	38	21	11	7	5	31	37	
751,239	4.241	74	53	42	27	16	9	5	32	41	
751,160	4.259	59	46	40	31	23	15	10	32	38	
751,079	4.278	38	25	22	17	12	8	6	31	38	
750,999	4.301	25	14	12	10	8	7	5	31	39	
750,919	4.432	14	10	10	9	8	6	6	26	32	km 750 = 1000 m
750,840	4.400	30	21	18	14	10	7	6	27	34	
750,761	4.417	14	9	7	6	4	4	3	27	28	
750,680	4.458	12	8	7	6	5	5	4	26	33	
750,600	4.358	82	67	59	47	28	18	11	26	28	
750,520	4.320	104	72	53	34	20	12	8	27	35	
750,441	4.256	139	109	85	56	33	19	12	27	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
750,359	4.354	96	68	50	31	18	12	8	28	36	
750,279	4.306	130	99	77	55	36	24	18	28	34	
750,201	4.341	81	54	30	15	7	4	3	27	35	
750,119	4.370	84	59	44	29	19	14	11	27	36	
750,040	4.304	101	77	59	41	27	18	10	28	35	
749,960	4.365	78	55	42	27	16	10	7	28	36	km 749 = 1000 m
749,880	4.309	87	60	46	30	19	12	8	28	37	
749,800	4.372	64	46	35	22	14	9	6	28	38	
749,721	4.303	103	78	62	42	25	14	9	28	38	
749,638	4.327	74	56	45	31	20	13	9	28	39	
749,560	4.320	92	67	53	37	24	16	11	28	27	
749,479	4.313	78	58	45	31	20	14	9	28	28	
749,399	4.320	74	55	43	30	21	16	12	28	36	
749,319	4.381	62	44	35	23	14	8	6	29	31	
749,242	4.352	63	41	29	18	12	8	4	29	37	
749,160	4.331	67	48	37	23	12	7	5	28	36	
749,081	4.300	92	69	55	36	24	17	12	29	36	
749,001	4.334	64	45	33	20	11	7	5	29	36	
748,921	4.266	141	98	74	47	27	15	9	29	36	km 748 = 1000 m
748,840	4.304	100	75	57	38	23	15	10	29	35	
748,759	4.327	82	59	45	28	16	9	6	28	35	
748,679	4.304	87	68	54	39	26	17	12	29	35	
748,597	4.319	81	54	45	34	24	16	11	29	37	
748,519	4.313	111	85	64	46	33	24	17	29	38	
748,440	4.311	99	78	66	51	36	26	18	29	39	
748,360	4.300	115	87	70	49	32	23	17	28	38	
748,281	4.371	45	37	34	28	22	16	12	28	38	
748,200	4.348	40	33	29	23	17	12	8	29	39	
748,119	4.339	27	23	21	19	15	12	9	28	41	
748,040	4.292	82	59	41	21	13	8	6	28	39	
747,959	4.351	53	36	25	13	9	6	5	28	40	km 747 = 1000 m
747,881	4.294	77	56	42	25	15	10	6	29	40	
747,799	4.278	91	69	46	30	18	11	7	29	40	
747,723	4.288	90	64	49	33	19	12	8	29	40	
747,639	4.301	72	52	40	26	17	12	9	29	40	
747,561	4.278	77	60	51	37	24	16	11	29	39	
747,482	4.335	72	54	43	31	21	15	10	29	38	
747,399	4.323	68	50	37	24	14	10	7	29	39	
747,318	4.282	106	77	57	34	18	10	7	29	38	
747,238	4.284	107	80	62	41	25	15	10	29	40	
747,159	4.307	73	54	42	29	20	14	10	29	39	inicio ponte km 747,203
747,079	4.335	68	46	32	19	11	7	5	30	37	fim ponte km 746,907
746,840	4.305	58	43	34	24	16	12	9	29	35	km 746 = 1000 m
746,759	4.267	64	46	35	23	13	8	5	29	35	
746,681	4.296	64	47	36	25	17	12	8	29	35	
746,599	4.271	63	46	35	25	18	13	9	28	34	
746,518	4.265	92	72	55	38	22	13	8	29	34	
746,438	4.287	104	67	47	28	14	6	3	29	32	
746,358	4.317	118	85	62	40	26	17	11	28	29	
746,279	4.335	85	62	48	32	22	15	11	28	34	
746,198	4.296	103	75	57	38	23	14	9	29	37	
746,119	4.286	97	70	53	38	24	16	10	29	38	
746,040	4.309	97	67	50	34	22	14	9	28	35	
745,961	4.307	94	64	50	35	25	18	13	28	33	km 745 = 1000 m
745,718	4.288	105	70	49	29	16	10	7	28	37	inicio ponte km 745,931
745,640	4.171	189	152	117	75	40	24	14	27	37	fim ponte km 745,749
745,562	4.261	85	64	51	35	23	16	11	28	38	
745,481	4.263	86	59	43	25	12	6	4	28	39	
745,400	4.276	97	68	48	28	16	11	8	28	38	
745,321	4.237	117	90	69	46	28	17	11	28	37	
745,240	4.249	115	83	59	36	21	15	11	28	35	
745,157	4.246	100	72	55	37	24	17	12	29	36	
745,077	4.263	91	64	48	33	23	16	11	29	37	
745,001	4.273	111	70	49	32	22	16	12	28	39	
744,759	4.305	52	37	29	20	13	9	7	28	39	km 744 = 1000 m
744,681	4.282	88	61	45	29	19	13	10	28	39	inicio ponte km 744,981
744,599	4.327	34	25	20	14	8	7	5	29	29	fim ponte km 744,794
744,520	4.257	73	50	36	23	14	9	6	28	41	
744,441	4.287	80	55	36	21	12	8	7	28	41	
744,360	4.241	104	77	60	40	24	14	6	28	40	
744,280	4.269	120	89	69	47	28	17	10	29	36	
744,200	4.208	111	92	75	55	37	25	17	28	39	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773,4 ao km 597,0				DATA: fev/2007					
PISTA: Multivia / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
744,119	4.316	71	53	42	29	17	11	8	29	36	inicio ponte km 744,090
743,880	4.284	75	57	46	33	22	15	9	28	41	km 743 = 1000 m
743,797	4.249	100	72	51	33	20	12	8	29	42	fim ponte km 743,945
743,718	4.255	90	65	48	31	19	12	8	29	39	
743,642	4.214	113	93	72	50	30	19	12	29	37	
743,560	4.235	115	91	75	47	29	18	12	29	38	
743,479	4.303	108	73	49	28	15	8	5	29	40	
743,399	4.271	108	75	50	31	19	13	8	29	41	
743,319	4.345	33	19	15	12	10	9	7	29	34	
743,242	4.301	48	26	18	12	9	7	5	28	34	
743,157	4.273	96	55	36	22	13	9	6	28	41	
743,079	4.246	83	60	45	31	21	16	12	28	42	
742,997	4.258	78	53	38	24	15	11	8	28	42	km 742 = 800 m
742,760	4.251	74	53	40	28	19	13	9	28	42	
742,680	4.244	104	73	51	31	18	10	5	29	43	
742,600	4.288	71	43	29	16	9	5	4	29	42	
742,521	4.239	108	65	47	32	22	15	11	29	39	
742,442	4.248	105	65	44	27	17	12	8	29	41	
742,361	4.271	79	53	38	23	14	10	8	29	40	
742,280	4.162	192	133	98	60	36	22	15	29	41	
742,201	4.137	191	141	107	69	42	27	18	30	41	
742,120	4.341	31	27	25	20	15	10	6	30	38	
742,041	4.307	40	32	28	21	15	11	8	30	38	
742,200	4.475	33	25	20	14	8	4	3	28	33	km 741 = 1270 m
742,121	4.413	39	31	26	20	13	8	5	27	31	
742,000	4.410	65	48	39	28	20	14	10	26	31	
741,921	4.386	91	65	50	34	22	14	9	26	34	
741,841	4.380	102	76	58	39	25	15	10	26	36	inicio ponte km 741,827
741,762	4.374	85	65	52	37	24	15	10	26	35	fim ponte km 741,808
741,681	4.428	69	50	38	24	14	8	5	26	34	
741,600	4.435	42	30	22	14	9	6	4	26	36	
741,521	4.414	74	49	34	20	12	8	6	27	35	
741,441	4.366	83	58	44	29	18	12	8	27	36	
741,362	4.365	96	71	54	36	24	17	13	26	34	
741,281	4.381	60	40	28	15	8	5	3	26	36	
741,200	4.392	65	42	29	16	7	4	3	27	35	
741,121	4.382	70	48	35	21	12	8	6	26	37	
741,040	4.391	66	45	30	17	11	9	7	26	35	
740,800	4.452	13	10	9	7	6	5	4	27	24	km 740 = 800 m
740,721	4.442	34	27	23	17	11	7	5	28	36	
740,640	4.398	45	31	23	15	11	6	5	27	33	
740,561	4.352	87	65	49	33	22	15	11	27	35	
740,480	4.339	89	62	46	28	16	9	6	27	37	
740,400	4.346	71	46	32	17	9	6	5	28	24	
740,321	4.376	68	45	31	18	10	8	6	27	35	
740,240	4.314	117	81	59	36	20	12	8	26	34	
740,161	4.375	58	46	39	28	17	11	7	27	32	
740,080	4.368	62	51	45	35	25	17	12	27	34	
739,959	4.274	137	101	78	53	32	20	14	28	37	km 739 = 1000 m
739,880	4.367	71	53	41	27	17	12	10	29	36	
739,799	4.417	36	27	22	16	11	8	6	29	35	
739,719	4.420	22	15	13	10	9	7	6	29	36	
739,640	4.411	11	8	7	6	4	4	3	28	24	
739,559	4.395	15	11	10	8	7	5	4	29	38	inicio ponte km 739,492
739,399	4.371	27	20	16	13	11	10	8	28	38	fim ponte km 739,467
739,320	4.360	33	24	20	17	15	13	12	29	36	
739,240	4.317	81	57	44	27	15	9	6	29	36	
739,159	4.333	87	61	46	29	17	11	7	29	33	
739,081	4.314	79	58	46	33	24	18	14	28	35	
739,001	4.357	63	44	33	20	12	8	6	28	25	
738,921	4.369	55	39	31	21	14	10	7	28	23	km 738 = 1140 m
738,840	4.354	57	42	33	22	14	9	6	29	26	
738,762	4.375	55	39	28	17	9	6	4	29	27	
738,681	4.331	65	46	36	25	18	14	11	29	27	
738,597	4.310	98	62	43	26	16	12	8	29	36	
738,519	4.355	86	57	39	23	13	9	6	29	37	
738,440	4.332	79	49	34	20	13	9	7	29	38	
738,360	4.319	86	56	36	21	11	7	5	29	32	
738,281	4.294	97	68	51	34	21	16	12	29	24	
738,197	4.310	81	51	34	20	11	7	5	28	38	
738,120	4.359	64	45	33	21	13	8	6	29	26	
738,038	4.299	106	73	54	35	23	16	13	29	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
737,959	4.280	107	68	45	25	13	9	8	29	38	
737,881	4.271	90	69	56	40	27	19	14	29	38	
737,959	4.319	70	46	33	20	11	8	6	29	38	km 737 = 1000 m
737,879	4.316	71	55	46	34	23	15	10	28	27	
737,800	4.323	44	34	29	21	15	10	8	28	38	início ponte km 737,736
737,640	4.360	48	34	26	15	8	5	4	28	36	fim ponte km 737,726
737,560	4.196	194	164	134	99	63	37	21	29	26	
737,479	4.231	143	122	100	75	49	31	19	29	36	
737,400	4.301	86	64	50	33	19	11	8	28	40	
737,320	4.313	70	47	35	22	13	8	6	28	38	
737,238	4.351	32	19	14	9	7	5	4	29	40	
737,158	4.331	30	22	18	14	10	8	6	29	39	
737,080	4.372	19	14	11	9	8	7	6	28	36	
737,000	4.331	32	23	17	12	9	8	7	28	36	
736,920	4.342	28	22	18	14	11	9	7	28	39	km 736 = 1000 m
736,839	4.374	34	23	17	12	9	7	5	29	40	
736,760	4.339	28	20	19	16	13	10	7	29	41	
736,679	4.353	19	14	12	10	7	6	4	28	39	
736,600	4.439	17	13	12	10	8	6	5	28	37	
736,520	4.321	107	63	42	28	17	11	7	29	39	
736,438	4.274	123	94	78	59	41	28	19	29	40	
736,360	4.230	166	121	91	61	36	21	13	28	36	
736,279	4.346	77	53	40	26	16	11	8	29	35	
736,199	4.398	26	18	14	10	7	5	4	28	36	
736,117	4.391	33	24	20	15	12	10	8	28	41	
736,040	4.343	43	33	28	20	12	7	5	29	31	
735,960	4.302	95	55	35	20	13	9	7	29	38	km 735 = 1000 m
735,879	4.318	65	53	45	33	23	15	10	29	40	início ponte km 735,929
735,799	4.300	87	63	49	31	17	12	8	29	23	fim ponte km 735,906
735,721	4.296	81	66	58	47	36	27	19	29	22	
735,640	4.302	72	54	42	28	17	10	6	29	24	
735,560	4.316	77	60	48	36	24	15	9	28	35	
735,479	4.255	120	92	74	51	32	20	13	29	39	
735,398	4.252	142	112	87	57	33	18	10	29	34	
735,321	4.223	132	102	83	59	38	23	15	29	31	
735,240	4.257	95	72	59	42	28	19	13	29	26	
735,161	4.296	89	68	56	42	30	21	15	28	36	
735,080	4.294	67	51	41	28	19	13	9	29	28	
735,000	4.278	86	62	47	31	18	10	7	29	24	
734,919	4.290	96	72	58	39	24	14	10	29	26	km 734 = 980 m
734,840	4.331	32	25	22	17	12	9	6	29	26	
734,758	4.257	92	71	60	45	31	21	14	29	42	
734,680	4.305	48	37	32	23	15	9	6	29	42	
734,599	4.307	45	34	29	22	15	9	6	29	43	
734,518	4.280	60	45	38	29	19	12	8	29	42	
734,438	4.282	70	55	47	36	23	14	9	29	43	
734,359	4.268	53	42	36	27	18	12	8	30	42	
734,279	4.300	40	30	26	19	13	9	6	30	30	
734,201	4.309	30	23	20	16	12	9	6	31	34	
734,119	4.320	19	14	12	9	7	6	5	30	29	
734,040	4.358	31	22	18	13	9	6	4	31	45	
733,960	4.279	41	24	19	14	10	7	5	32	50	km 733 = 932 m
733,881	4.276	47	30	25	19	13	9	6	33	49	
733,799	4.297	51	33	26	18	12	9	7	33	46	
733,719	4.326	16	9	9	7	6	5	4	33	40	
733,640	4.288	47	29	19	12	8	6	5	34	48	
733,559	4.282	26	16	11	7	5	4	4	33	39	
733,479	4.249	42	23	14	9	7	6	5	33	49	
733,400	4.247	49	26	17	10	7	5	4	32	48	
733,319	4.308	34	18	11	7	5	4	3	33	43	
733,242	4.272	32	14	10	6	4	4	3	33	45	
733,160	4.267	43	22	16	12	9	7	6	33	45	
733,081	4.269	42	20	14	9	6	5	4	32	44	
732,841	4.306	26	14	10	8	6	6	4	33	42	km 732 = 920 m
732,760	4.266	47	31	24	16	12	8	6	33	45	
732,680	4.195	56	23	13	9	7	5	4	32	50	
732,600	4.255	58	36	26	19	14	10	7	33	49	
732,521	4.251	41	17	9	6	5	5	4	33	50	
732,441	4.272	29	13	6	4	4	3	3	34	51	
732,360	4.245	33	17	13	10	9	8	7	34	49	
732,280	4.229	40	20	8	5	5	5	4	34	52	
732,200	4.217	27	16	11	8	7	6	4	33	52	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773,4 ao km 597,0				DATA: fev/2007					
PISTA: Multivia / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
732,121	4.253	35	19	11	8	6	5	3	33	52	
732,040	4.272	28	11	7	5	4	3	2	33	51	
731,881	4.263	32	14	8	6	6	5	4	33	52	km 731 = 920 m
731,800	4.247	41	20	12	9	7	6	5	34	52	
731,721	4.263	35	20	12	7	5	4	3	33	51	
731,641	4.247	42	23	15	11	8	7	5	33	51	
731,560	4.258	40	20	10	6	5	5	4	33	52	
731,480	4.256	37	19	10	8	7	6	5	33	52	
731,400	4.288	23	11	7	5	5	4	4	34	52	
731,321	4.274	27	14	10	8	7	6	5	33	53	
731,241	4.260	44	23	13	10	9	8	6	33	52	
731,160	4.306	25	14	8	6	5	4	3	34	41	
731,080	4.272	29	15	10	7	6	6	5	33	50	
730,921	4.321	24	13	7	5	4	4	3	33	52	km 730 = 920 m
730,840	4.286	25	11	7	5	4	3	3	34	51	
730,761	4.274	27	13	9	6	5	4	3	34	52	
730,680	4.279	30	14	7	4	4	3	3	33	52	
730,600	4.263	30	18	12	8	7	6	5	34	51	
730,521	4.245	27	16	9	7	6	5	4	33	52	
730,441	4.258	34	21	15	11	10	9	7	34	52	
730,361	4.270	31	17	10	7	7	6	5	33	52	
730,280	4.239	24	13	8	6	5	5	4	33	51	
730,200	4.268	34	19	12	9	8	7	6	33	51	
730,121	4.245	27	15	11	9	8	7	5	33	50	
730,040	4.218	26	15	12	9	8	7	6	34	51	
729,960	4.238	31	18	12	9	9	8	7	32	51	km 729 = 920 m
729,880	4.234	32	16	10	7	6	5	4	33	52	
729,799	4.209	36	14	8	6	5	5	4	33	52	
729,720	4.215	28	14	8	5	5	5	4	33	51	
729,639	4.225	29	14	9	6	5	5	4	33	52	
729,561	4.234	26	15	10	7	6	6	5	33	51	
729,479	4.209	28	16	11	8	8	7	6	33	52	
729,400	4.206	30	20	11	8	7	6	5	34	51	
729,319	4.198	31	16	12	10	8	7	6	33	51	
729,240	4.254	25	15	10	7	6	5	4	33	50	
729,160	4.215	45	17	10	6	4	4	3	33	50	
729,080	4.239	36	18	10	7	6	5	4	33	49	
728,920	4.243	33	17	10	6	4	4	3	32	47	km 728 = 930 m
728,841	4.227	29	15	8	5	4	4	3	33	49	
728,761	4.234	36	14	7	4	4	3	3	33	48	
728,680	4.221	37	15	7	4	3	3	3	33	48	
728,600	4.227	37	18	8	5	4	4	3	32	44	
728,521	4.239	36	17	9	5	4	4	3	33	47	
728,440	4.215	35	16	10	7	7	7	6	33	47	
728,361	4.261	28	15	11	9	8	7	6	32	47	
728,280	4.233	38	24	20	17	15	13	11	33	47	
728,200	4.272	29	21	18	14	11	9	7	33	46	
728,120	4.250	23	13	9	6	5	4	4	32	45	
727,040	4.243	21	14	12	10	9	7	6	32	45	
727,878	4.270	20	10	7	6	6	5	4	33	47	km 727 = 920 m
727,800	4.257	34	16	12	9	7	6	4	33	47	
727,721	4.248	20	11	8	7	6	6	5	33	46	
727,640	4.269	16	9	7	6	5	5	4	32	47	
727,559	4.260	18	12	9	7	7	6	5	33	47	
727,481	4.264	18	10	7	6	5	4	4	33	47	
727,399	4.235	19	12	9	8	7	7	6	33	47	
727,320	4.289	23	14	9	6	4	4	3	33	46	
727,241	4.270	25	16	13	11	10	9	8	33	44	
727,158	4.254	18	10	8	6	5	5	4	32	45	
727,079	4.225	18	11	8	6	5	5	4	33	47	
727,001	4.252	25	12	8	5	4	4	3	33	46	
726,760	4.262	23	13	10	7	6	5	4	32	44	km 726 = 840 m
726,680	4.239	31	17	13	9	7	6	5	33	44	
726,600	4.252	23	14	11	8	6	5	4	33	45	
726,521	4.244	22	13	10	8	6	6	5	33	45	
726,441	4.244	22	12	8	6	5	4	3	33	46	
726,360	4.269	19	12	10	8	7	6	5	33	47	
726,280	4.262	20	13	11	9	8	7	6	32	47	
726,200	4.255	22	15	13	11	9	8	7	33	48	
726,121	4.246	25	14	10	7	6	5	4	33	48	
726,040	4.244	24	19	15	13	11	9	7	34	48	
725,959	4.252	26	16	13	10	8	7	5	33	47	km 725 = 940 m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773,4 ao km 597,0				DATA: fev/2007					
PISTA: Multivia / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
725,879	4.235	24	13	10	8	6	5	4	34	48	
725,799	4.256	26	14	10	7	6	6	5	33	47	
725,721	4.245	23	13	11	9	8	7	6	33	46	
725,639	4.262	26	17	13	9	8	7	6	34	45	
725,558	4.223	52	35	28	21	16	13	10	33	44	
725,482	4.241	37	23	17	13	11	9	8	33	45	
725,401	4.286	31	22	14	11	10	9	7	33	46	
725,321	4.277	22	13	9	7	6	6	5	33	45	
725,239	4.272	22	13	10	7	6	5	4	33	45	
725,162	4.288	30	19	13	10	9	7	6	33	44	
725,081	4.264	21	12	7	3	2	2	1	33	43	
724,840	4.257	38	17	11	7	6	5	4	33	42	km 724 = 920 m
724,760	4.259	26	15	11	9	7	6	5	33	42	
724,680	4.273	27	16	13	10	8	7	5	33	39	
724,600	4.250	22	13	9	7	5	4	4	33	41	
724,522	4.262	20	12	9	7	6	5	5	32	40	
724,441	4.286	20	12	9	6	5	5	4	33	40	
724,361	4.250	23	14	10	8	7	7	6	33	42	
724,280	4.247	21	14	11	8	7	6	5	32	40	
724,200	4.306	18	12	10	7	6	5	4	32	36	
724,121	4.270	27	15	11	8	7	5	4	32	43	
724,040	4.268	25	16	13	10	8	7	5	32	42	
723,880	4.279	33	20	15	11	9	8	6	32	42	km 723 = 930 m
723,800	4.282	24	15	11	8	7	6	4	32	41	
723,721	4.265	27	18	14	10	8	7	6	31	41	
723,641	4.223	26	16	12	9	8	7	5	31	40	
723,561	4.239	27	13	9	6	5	5	4	31	41	
723,480	4.277	24	14	10	7	6	5	4	31	40	
723,400	4.272	25	14	10	7	6	6	5	32	40	
723,321	4.245	29	17	12	9	8	7	5	31	40	
723,240	4.265	25	14	10	8	7	6	5	31	39	
723,161	4.239	30	16	11	9	8	7	6	32	39	
723,080	4.256	26	14	10	7	6	5	5	31	39	
723,001	4.266	22	12	9	7	6	5	5	32	39	
722,840	4.252	32	15	8	5	5	4	4	31	39	km 722 = 920 m
722,760	4.259	23	12	7	4	3	3	3	31	37	
722,680	4.254	30	17	12	9	8	7	6	32	38	
722,600	4.279	23	14	10	7	6	5	4	32	37	
722,521	4.284	20	12	10	7	6	5	4	31	37	
722,441	4.256	19	12	9	7	6	5	4	32	37	
722,360	4.263	16	11	8	6	5	4	3	31	35	
722,280	4.261	26	14	9	6	4	4	3	32	39	
722,200	4.258	20	12	9	6	5	4	4	31	39	
722,120	4.229	27	15	10	6	5	5	4	32	40	
722,040	4.290	34	23	17	14	11	9	7	31	40	
721,879	4.258	26	15	12	9	8	7	6	31	39	km 721 = 930 m
721,799	4.282	19	10	8	6	6	5	4	32	40	inicio ponte km 721,769
721,719	4.236	22	15	14	11	9	7	5	32	34	fim ponte km 721,750
721,640	4.243	22	15	11	8	6	5	3	31	37	
721,562	4.232	28	18	14	10	8	7	5	31	41	
721,481	4.220	32	20	15	12	10	9	7	31	41	
721,399	4.247	33	24	19	15	12	10	7	31	41	
721,319	4.245	24	13	8	6	5	5	4	32	40	
721,240	4.258	26	13	7	5	4	4	3	32	40	
721,162	4.245	29	15	9	5	4	4	3	32	40	
721,081	4.265	29	15	10	7	6	6	5	31	39	
720,999	4.263	31	16	10	6	5	5	4	31	40	
720,840	4.239	31	21	17	12	10	8	7	31	40	km 720 = 920 m
720,760	4.231	25	14	10	8	7	6	5	32	40	
720,680	4.261	23	13	10	8	6	5	5	32	40	
720,600	4.256	25	15	10	7	6	5	4	31	41	
720,519	4.256	32	20	15	11	9	7	6	31	42	
720,440	4.245	28	16	12	8	6	5	4	31	41	
720,359	4.254	27	17	12	7	6	5	4	31	42	
720,279	4.270	24	14	10	7	6	5	4	31	42	
720,201	4.266	27	16	12	9	7	6	5	31	41	
720,117	4.261	31	18	13	9	8	7	6	31	41	
720,039	4.245	29	17	13	9	8	7	6	31	41	
719,879	4.260	27	16	11	8	6	6	5	31	39	km 719 = 940 m
719,799	4.243	24	14	11	9	8	8	6	31	40	
719,722	4.239	29	17	12	9	8	8	7	31	40	
719,640	4.246	33	19	13	10	9	8	7	31	40	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
719,560	4,268	30	18	12	9	7	6	5	31	39	
719,477	4,216	39	22	14	11	9	7	6	32	40	
719,399	4,234	36	21	14	9	7	6	5	31	42	
719,317	4,232	44	24	17	11	8	6	5	31	41	
719,240	4,241	32	18	12	9	7	6	5	31	40	
719,160	4,237	33	20	14	11	9	8	6	31	41	
719,079	4,237	33	17	9	6	5	4	3	31	40	
719,000	4,263	30	19	12	8	7	6	4	31	39	
718,840	4,272	38	24	18	14	12	9	7	31	40	km 718 = 950 m
718,759	4,262	36	19	12	8	7	6	4	32	41	
718,680	4,275	28	15	10	7	6	5	4	31	41	
718,597	4,255	32	21	17	14	12	10	7	31	41	
718,519	4,280	27	18	14	10	8	7	5	31	41	
718,440	4,256	26	17	13	10	9	7	5	31	41	
718,360	4,277	32	21	17	12	10	8	6	32	40	
718,280	4,284	27	17	13	10	8	7	5	31	40	
718,202	4,266	35	21	15	11	9	8	6	31	40	
718,120	4,278	26	16	12	9	8	7	6	31	39	
718,040	4,272	30	20	15	11	9	8	7	31	39	
717,879	4,257	25	15	11	8	7	6	5	33	48	km 717 = 905 m
717,800	4,313	21	12	8	6	5	4	3	33	48	
717,720	4,248	24	14	9	6	5	4	4	32	50	
717,639	4,255	23	14	10	7	6	5	4	32	50	
717,560	4,276	24	14	9	7	6	5	4	33	50	
717,479	4,269	32	18	12	7	6	5	4	33	50	
717,399	4,261	28	18	13	9	7	6	5	32	50	
717,319	4,267	27	16	11	8	7	6	5	32	49	
717,242	4,266	32	19	13	9	8	6	5	32	49	
717,159	4,282	29	19	14	11	9	8	6	32	49	
717,081	4,246	39	20	13	10	8	6	5	33	49	
716,999	4,216	43	27	19	14	12	9	7	32	49	
716,919	4,230	38	23	15	12	10	8	6	32	49	km 716 = 935 m
716,839	4,271	31	19	14	11	9	8	6	32	49	
716,761	4,298	32	19	14	11	8	7	5	32	51	
716,681	4,244	45	22	14	11	9	8	7	32	51	
716,601	4,237	36	22	16	11	9	8	6	33	51	
716,519	4,239	37	24	21	17	14	12	9	33	49	
716,440	4,266	33	20	14	11	8	7	5	33	50	
716,360	4,228	37	23	17	12	9	7	6	32	51	
716,281	4,259	37	24	15	11	8	6	5	33	51	
716,201	4,248	26	18	14	10	8	6	5	33	51	
716,121	4,206	39	25	21	16	13	11	8	33	51	
716,040	4,262	30	18	15	11	9	8	6	33	51	
715,879	4,311	42	31	26	19	14	10	8	32	43	km 715 = 920m
715,800	4,328	36	25	21	16	12	8	5	33	43	
715,717	4,309	38	26	21	17	14	11	8	33	43	
715,637	4,325	30	22	19	15	12	9	7	33	43	
715,558	4,300	32	24	21	16	12	10	7	33	44	
715,478	4,341	29	20	16	11	7	5	3	33	44	
715,400	4,301	19	12	10	7	5	4	3	33	44	
715,318	4,301	35	26	22	17	11	7	5	32	44	
715,240	4,300	36	24	18	13	9	7	5	33	44	
715,161	4,305	29	21	17	13	10	8	6	33	43	
715,079	4,290	43	29	23	17	11	7	5	33	44	
714,997	4,306	29	20	16	13	10	8	6	33	44	
714,840	4,288	33	25	22	17	13	10	7	33	31	km 714 = 910m
714,760	4,301	32	23	20	15	12	9	7	33	42	
714,679	4,285	31	22	19	14	11	8	6	32	43	
714,600	4,280	25	17	13	10	8	6	5	33	44	
714,519	4,281	33	24	20	15	12	9	6	33	44	
714,439	4,299	37	27	23	17	13	9	6	33	44	
714,359	4,271	49	35	28	20	13	8	5	33	45	
714,278	4,280	35	25	22	17	13	10	7	32	45	
714,198	4,267	37	26	21	15	10	7	5	33	45	
714,119	4,267	31	20	16	12	9	8	6	33	46	
714,039	4,267	26	16	13	10	8	7	6	32	45	
713,879	4,294	20	13	10	8	6	5	4	32	45	km 713 = 950m
713,799	4,309	20	11	10	8	7	6	5	33	45	
713,720	4,267	59	45	37	27	18	13	9	33	41	
713,640	4,251	36	25	21	15	10	7	2	33	42	
713,560	4,257	31	23	20	16	12	9	7	33	47	
713,478	4,289	19	12	10	8	7	6	5	33	45	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
713,399	4.300	31	20	16	13	10	7	5	33	45	
713,318	4.290	28	17	13	10	8	7	5	33	45	
713,238	4.269	25	16	13	10	9	8	6	33	45	
713,160	4.263	37	27	23	17	12	9	6	32	45	
713,081	4.260	28	17	13	10	8	6	5	32	45	
712,999	4.267	29	18	15	11	9	7	5	33	45	
712,840	4.290	23	15	13	10	9	8	6	32	45	km 712 = 900m
712,760	4.280	26	17	14	11	9	7	5	32	44	
712,678	4.290	38	27	23	18	13	10	7	33	46	
712,597	4.296	18	10	7	5	4	4	3	33	46	
712,519	4.276	19	12	10	8	7	6	5	33	46	
712,441	4.285	19	12	10	8	7	6	2	33	45	
712,360	4.254	39	30	25	19	13	9	6	33	46	
712,281	4.240	34	24	20	15	11	8	5	33	47	
712,201	4.258	24	16	13	10	7	6	5	33	45	
712,120	4.253	41	31	26	20	15	11	7	33	45	
712,040	4.265	28	18	15	11	9	7	5	32	45	
711,879	4.278	29	20	16	12	8	6	4	32	45	km 711 = 895m
711,799	4.258	46	31	24	18	13	9	6	33	46	
711,717	4.269	19	13	11	9	8	7	6	33	46	
711,640	4.291	23	13	9	7	6	5	4	33	45	
711,560	4.316	29	19	15	12	10	8	7	33	46	
711,480	4.318	18	9	7	5	5	4	4	32	46	
711,400	4.289	18	11	9	7	5	4	3	33	47	
711,320	4.284	23	13	10	8	8	7	6	33	47	
711,241	4.289	31	20	16	14	12	11	9	33	47	
711,158	4.275	45	31	25	20	17	14	11	33	49	
711,081	4.264	25	16	12	9	7	5	4	33	48	
711,001	4.273	21	11	9	8	6	5	4	33	48	
710,919	4.260	25	14	11	10	8	6	4	33	46	km 710 = 945m
710,839	4.303	30	19	15	11	8	5	3	32	47	
710,760	4.298	33	22	18	14	10	7	4	33	46	
710,679	4.291	17	9	7	6	5	4	3	33	46	
710,599	4.352	15	6	5	4	4	3	3	34	46	
710,520	4.302	34	21	17	12	8	6	4	33	48	
710,440	4.299	29	17	14	10	8	6	6	33	47	
710,360	4.298	26	19	16	12	8	6	4	33	45	início de ponte km 710,323 fim de ponte km 710,275
710,199	4.316	29	20	17	13	10	8	6	33	44	
710,120	4.292	42	25	20	15	12	9	7	33	44	
710,040	4.323	29	18	15	12	9	7	6	32	44	
709,961	4.286	19	12	9	8	6	6	5	32	45	km 709 = 1000m início de ponte km 709,914 fim de ponte km 709,869
709,800	4.321	27	19	16	13	9	7	5	33	45	
709,721	4.344	26	18	14	10	8	6	5	33	45	
709,641	4.295	30	21	17	13	9	6	4	34	46	
709,560	4.288	26	16	14	11	8	6	4	33	46	
709,480	4.272	32	22	19	16	12	10	7	33	46	
709,400	4.249	27	18	15	12	9	7	5	33	45	
709,321	4.276	30	21	18	14	10	7	5	33	44	
709,241	4.258	19	12	11	8	6	4	3	33	46	
709,160	4.252	44	31	26	19	13	8	5	33	47	
709,080	4.281	44	30	24	16	10	6	3	34	47	
709,000	4.290	24	15	12	8	6	4	3	33	46	
708,841	4.297	23	16	13	9	6	4	2	33	41	km 708 = 1000m
708,760	4.281	27	19	15	12	9	7	5	33	43	
708,680	4.263	42	29	24	17	12	8	6	33	42	
708,600	4.265	30	18	13	9	8	7	5	33	41	
708,521	4.284	24	15	10	7	5	4	3	34	40	
708,440	4.319	27	16	13	9	7	6	4	34	41	
708,361	4.277	29	18	13	9	7	6	4	33	40	
708,280	4.273	32	20	15	11	8	6	5	33	40	
708,200	4.282	26	15	12	10	9	8	6	33	40	
708,121	4.261	22	14	12	9	8	7	6	32	42	
708,040	4.273	23	15	12	10	9	8	6	33	43	
707,959	4.268	36	25	22	20	17	15	12	32	42	km 707 = 920m
707,881	4.286	28	19	15	12	10	8	6	33	43	
707,801	4.270	31	20	16	12	10	8	6	32	40	
707,721	4.275	22	15	12	9	8	7	6	33	42	
707,640	4.248	22	14	11	8	7	6	5	33	43	
707,560	4.279	26	17	14	11	9	8	7	33	42	
707,481	4.277	29	19	14	10	8	7	5	33	44	
707,399	4.272	21	12	11	9	8	7	6	32	44	
707,319	4.275	23	17	15	13	12	10	8	33	42	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
707,238	4.270	26	19	16	13	12	10	8	33	45	
707,161	4.273	30	21	18	15	13	11	9	33	46	
707,081	4.280	22	15	11	8	6	5	4	33	47	
706,999	4.257	17	11	7	5	5	4	4	33	47	
706,840	4.268	19	14	10	7	6	6	5	33	47	km 706 = 1000m
706,760	4.248	22	10	7	5	4	4	3	32	48	
706,680	4.243	26	14	9	6	5	5	4	32	48	
706,600	4.284	22	14	10	8	7	6	5	32	46	
706,521	4.246	26	15	12	10	8	7	6	32	46	
706,440	4.237	31	14	10	8	7	6	5	32	45	
706,360	4.272	24	13	9	7	6	5	4	32	44	
706,280	4.284	25	14	10	7	6	5	4	32	45	
706,200	4.261	22	11	9	6	6	5	4	32	45	
706,121	4.247	21	10	6	4	3	3	2	33	45	
706,040	4.297	21	10	7	5	4	3	3	33	46	
705,879	4.263	24	15	11	9	8	6	5	33	45	km 705 = 920m
705,799	4.286	26	16	11	8	7	6	5	33	44	
705,720	4.267	30	18	14	10	9	8	7	32	45	
705,642	4.245	29	17	12	10	10	9	7	33	46	
705,561	4.274	28	15	11	7	6	5	4	33	47	
705,481	4.270	20	12	9	8	7	6	5	33	45	
705,400	4.282	21	12	9	6	6	5	4	33	46	
705,319	4.277	23	13	10	7	6	5	4	33	46	
705,242	4.266	20	12	9	7	6	5	4	33	47	
705,160	4.286	24	13	9	6	5	4	3	33	46	
705,077	4.282	27	16	12	9	8	7	5	32	46	
705,003	4.264	24	15	12	9	8	7	5	33	46	
704,840	4.241	25	14	10	8	6	6	5	33	44	km 704 = 920m
704,760	4.253	21	10	6	3	3	2	1	33	43	
704,678	4.276	25	15	10	7	6	5	4	32	44	
704,599	4.257	33	18	12	8	7	6	5	33	44	
704,519	4.307	27	17	12	9	8	7	5	33	43	
704,440	4.264	38	24	19	15	13	11	9	33	43	
704,360	4.282	23	14	10	8	6	6	5	33	41	
704,281	4.276	21	13	9	6	5	4	4	33	41	
704,201	4.268	21	12	9	6	5	4	3	33	42	
704,119	4.243	32	21	17	13	10	7	5	33	43	
704,041	4.270	22	13	9	6	5	5	4	32	43	
703,960	4.294	23	14	11	8	7	6	5	33	46	km 703 = 1000m
703,880	4.314	21	12	9	5	4	3	3	32	44	
703,800	4.248	23	11	7	5	4	4	3	32	48	
703,721	4.253	27	15	9	6	5	5	4	33	48	
703,640	4.284	23	16	9	8	7	6	5	33	46	
703,560	4.256	26	15	12	10	8	7	6	33	46	início de ponte km 703,520
703,480	4.257	32	14	11	8	7	6	5	32	45	fim de ponte km 703,490
703,400	4.262	24	14	9	7	6	5	4	33	44	
703,321	4.274	26	14	11	7	6	5	4	33	45	
703,241	4.251	23	13	9	6	6	5	4	33	45	
703,160	4.245	22	11	6	4	3	3	2	33	45	
703,080	4.287	22	10	7	5	4	3	3	32	46	
703,001	4.536	37	26	21	15	11	8	6	21	30	
702,920	4.554	29	21	18	13	10	7	6	21	29	km 702 = 1000m
702,840	4.538	29	18	13	9	6	5	3	22	30	
702,758	4.532	29	23	17	12	8	5	3	22	30	
702,679	4.519	24	17	13	9	7	5	4	23	30	
702,601	4.502	38	28	23	17	12	8	6	23	30	
702,518	4.478	35	27	23	17	12	9	6	22	30	
702,440	4.465	28	21	18	14	11	8	6	22	31	
702,360	4.491	17	13	11	9	8	7	6	23	30	
702,282	4.477	15	12	11	10	9	7	6	23	30	
702,201	4.464	18	14	12	10	8	7	5	23	30	
702,119	4.478	31	22	18	14	11	9	7	23	30	
702,038	4.438	28	21	17	13	9	7	5	23	30	
701,960	4.462	25	19	16	12	10	8	6	23	30	km 701 = 1000m
701,881	4.501	29	22	17	12	9	6	5	24	30	
701,800	4.509	20	14	12	9	7	6	5	24	29	
701,720	4.471	31	24	20	15	12	9	6	24	30	
701,640	4.445	40	30	25	19	14	10	7	23	32	
701,560	4.475	24	17	13	10	7	6	4	24	31	
701,481	4.474	23	15	11	7	5	4	3	24	32	
701,401	4.445	23	15	11	8	6	5	4	24	32	
701,320	4.459	26	19	16	12	8	6	4	24	31	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
701,242	4.434	29	20	15	11	7	5	4	24	30	
701,160	4.414	37	27	22	15	10	6	4	25	31	
701,081	4.431	33	26	21	16	11	7	5	25	31	
701,000	4.474	23	17	14	10	7	5	4	24	32	
700,920	4.452	26	20	16	12	8	6	5	25	32	km 700 = 1000m
700,842	4.431	37	29	25	20	16	13	9	24	33	início de ponte km 700,810
700,758	4.425	40	33	29	24	20	16	12	26	32	fim de ponte km 700,779
700,681	4.448	22	15	13	10	8	7	6	26	33	
700,601	4.434	28	18	13	9	7	6	5	25	33	
700,520	4.420	24	16	13	10	8	7	5	26	33	
700,439	4.416	27	20	16	12	10	8	7	26	33	
700,359	4.440	21	13	9	7	6	6	5	26	33	
700,279	4.438	28	19	14	10	8	6	5	26	33	
700,200	4.432	31	24	20	15	10	7	5	27	33	
700,121	4.415	28	21	18	15	12	9	6	26	32	
700,042	4.382	50	43	39	32	24	17	12	26	33	
699,961	4.405	43	36	32	27	21	16	12	27	34	km 699 = 1010m
699,880	4.404	23	17	15	12	10	8	5	27	34	
699,800	4.403	28	23	20	16	13	11	8	27	32	
699,718	4.405	36	29	25	20	16	12	9	27	32	
699,642	4.408	20	15	13	10	8	7	5	27	32	iniciode ponte km 699,565
699,480	4.393	19	13	10	8	6	6	5	27	35	fim de ponte km 699,505
699,401	4.397	20	14	11	7	5	5	4	27	33	
699,318	4.402	22	16	13	9	7	5	4	27	34	
699,240	4.393	19	14	12	10	8	6	5	27	33	
699,156	4.401	22	17	16	12	10	8	6	28	34	
699,079	4.388	22	17	14	11	8	6	4	27	36	
699,000	4.349	29	23	21	17	14	12	9	27	35	
698,919	4.404	32	25	22	17	13	10	7	27	34	km 698 = 1125m
698,839	4.341	68	58	51	40	26	17	10	27	34	
698,760	4.389	57	46	39	29	20	12	7	28	32	
698,677	4.419	44	35	31	24	18	14	10	27	34	
698,600	4.408	24	19	16	12	9	7	5	27	35	
698,521	4.396	56	46	41	33	26	18	12	27	35	
698,440	4.378	48	40	35	28	21	15	10	28	35	
698,359	4.410	25	20	17	14	11	8	6	28	33	
698,279	4.399	32	24	19	13	8	5	4	28	34	
698,202	4.379	18	13	11	9	7	6	5	27	34	
698,120	4.365	19	14	12	9	7	5	4	27	34	
698,040	4.369	15	12	10	9	7	5	4	28	35	
697,960	4.367	22	17	15	12	9	7	5	28	34	
697,880	4.348	17	14	13	12	9	8	6	28	34	início ponte km 697,990
697,958	4.383	22	18	16	14	11	9	7	28	34	fim ponte km 697,967
697,880	4.363	19	14	12	10	7	6	4	27	29	km 697 = 1000m
697,799	4.388	37	27	24	20	16	12	8	27	33	
697,718	4.361	35	27	23	18	13	10	7	28	35	
697,637	4.337	38	31	27	22	17	14	10	28	35	
697,559	4.390	17	12	10	7	5	3	3	28	36	
697,479	4.383	34	25	21	15	10	7	6	28	35	
697,401	4.353	40	27	20	13	8	6	5	28	35	
697,320	4.341	44	30	23	15	10	8	6	28	36	
697,240	4.343	43	32	24	14	9	7	5	28	35	
697,160	4.361	33	26	22	17	11	8	6	28	24	
697,080	4.333	34	25	20	14	9	8	7	27	25	
697,001	4.365	39	28	22	10	7	4	3	27	32	
696,920	4.349	41	29	20	12	8	6	5	27	35	km 696 = 920m
696,840	4.365	25	18	15	10	7	6	4	27	34	
696,760	4.333	71	54	40	26	15	10	7	27	34	
696,677	4.333	55	42	35	24	15	10	6	28	36	
696,600	4.321	50	35	28	18	11	7	6	27	37	
696,520	4.357	33	24	18	12	7	5	3	28	37	
696,441	4.323	53	41	34	23	15	9	7	28	36	
696,360	4.349	67	53	44	32	21	14	10	27	36	
696,281	4.361	46	32	24	15	9	7	5	27	36	
696,201	4.334	51	34	23	14	9	7	6	28	34	
696,121	4.335	49	34	24	16	11	9	5	27	37	
696,040	4.394	35	25	20	14	10	7	6	28	36	
695,960	4.391	25	17	14	10	7	6	5	28	37	km 695 = 1000m
695,882	4.325	46	34	27	18	11	7	5	28	37	
695,800	4.290	44	30	20	11	8	6	5	28	37	
695,719	4.333	28	20	16	11	8	5	4	28	38	
695,639	4.329	36	27	22	16	10	7	5	29	35	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
695,560	4,364	33	25	21	15	11	8	6	28	37	
695,477	4,316	48	34	23	14	9	7	6	28	36	
695,399	4,303	49	35	23	13	8	6	6	29	36	
695,320	4,290	44	30	20	11	8	6	5	28	37	
695,241	4,298	50	36	24	15	9	7	5	28	37	
695,160	4,362	34	25	20	15	11	9	7	28	31	
695,077	4,314	32	22	16	11	7	6	5	28	35	
695,000	4,292	59	42	31	20	13	10	8	29	32	
694,920	4,321	20	13	10	8	5	4	2	28	38	km 694 = 1000m
694,841	4,342	24	19	16	13	9	7	6	29	34	
694,759	4,315	24	17	15	12	9	6	5	29	36	
694,680	4,328	12	8	7	6	5	4	3	28	38	
694,599	4,310	17	14	12	10	8	6	4	28	27	
694,521	4,346	19	14	13	10	8	6	5	28	37	
694,440	4,335	19	14	13	11	9	7	5	29	38	
694,360	4,346	23	18	17	14	11	9	7	28	38	
694,281	4,343	15	11	10	8	6	4	3	28	39	
694,200	4,323	22	17	15	12	9	7	5	29	38	
694,118	4,323	26	20	18	15	11	9	7	29	39	
694,040	4,323	28	20	16	11	8	6	5	29	39	
693,959	4,300	23	16	13	9	7	6	5	29	40	km 693 = 1000m
693,879	4,300	24	18	14	10	7	6	5	28	41	
693,800	4,304	67	50	41	28	16	10	6	28	40	
693,719	4,335	29	22	19	17	13	10	8	29	39	
693,641	4,311	24	19	16	12	8	5	4	29	28	
693,562	4,318	40	32	27	21	14	10	6	29	32	
693,479	4,325	14	11	10	8	7	6	5	29	28	
693,399	4,252	66	52	43	32	23	17	12	29	39	
693,320	4,325	44	31	24	16	10	8	6	30	39	
693,240	4,319	43	33	28	20	14	9	7	30	39	
693,159	4,294	46	34	27	19	12	9	7	30	40	
693,081	4,288	49	36	30	22	15	11	8	30	42	
693,001	4,274	49	37	30	23	16	12	9	29	41	
693,001	4,309	23	15	14	12	9	8	6	30	39	
692,918	4,261	71	55	46	36	25	17	11	30	39	km 692 = 1000m
692,840	4,262	40	29	22	15	11	8	6	30	39	
692,759	4,340	33	24	20	15	10	8	6	31	39	
692,679	4,304	71	59	48	33	21	13	8	30	39	
692,602	4,288	37	28	23	17	12	9	7	30	39	
692,521	4,288	89	70	57	36	23	17	11	30	41	
692,441	4,275	50	36	28	19	12	9	7	30	41	
692,360	4,315	49	37	31	23	16	11	8	30	41	
692,279	4,309	45	33	27	19	13	9	6	30	41	
692,201	4,294	47	33	25	16	10	7	4	30	42	
692,121	4,276	65	47	35	22	14	10	7	31	41	
692,040	4,294	75	53	40	24	14	9	6	31	41	
691,961	4,320	56	38	28	16	9	5	4	31	42	km 691 = 1020m
691,879	4,288	41	28	20	12	9	7	6	31	41	
691,800	4,296	35	25	20	14	9	7	6	31	41	
691,721	4,198	102	88	78	66	46	32	19	31	41	inicio ponte km 691,715
691,639	4,341	14	10	9	7	5	4	3	31	28	fim ponte km 691,695
691,561	4,322	15	11	10	8	7	5	4	31	39	
691,481	4,327	18	14	13	12	10	8	6	31	38	
691,399	4,272	39	28	23	16	11	8	6	31	40	
691,321	4,277	20	14	12	9	6	5	4	31	29	
691,241	4,302	33	26	23	18	14	11	8	32	42	
691,160	4,311	24	17	13	9	6	4	3	31	41	
691,081	4,296	32	21	17	12	8	5	4	31	41	
690,999	4,302	24	16	13	10	8	6	4	32	41	km 690 = 1030m
690,919	4,311	26	18	15	10	6	4	3	31	40	
690,837	4,307	40	30	26	19	13	9	6	32	40	
690,760	4,284	31	19	14	9	5	4	3	31	39	
690,680	4,277	31	21	17	13	9	7	5	32	41	
690,599	4,289	31	22	18	13	9	7	5	31	42	
690,519	4,252	47	33	24	16	11	9	7	31	41	
690,441	4,258	38	27	22	16	12	9	8	32	41	
690,362	4,259	34	24	19	14	10	7	5	32	43	
690,282	4,232	67	47	36	24	15	10	7	32	42	
690,200	4,295	39	26	20	14	10	7	6	31	41	
690,120	4,298	44	29	22	15	10	8	6	31	41	
690,040	4,251	87	62	44	24	12	7	5	31	42	
689,958	4,259	69	47	32	17	8	5	4	31	42	km 689 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
689,881	4.306	24	16	13	10	7	5	4	32	41	
689,799	4.297	27	17	12	8	5	4	3	31	42	
689,721	4.270	43	28	20	11	6	4	4	32	41	
689,638	4.266	44	30	22	13	7	5	4	31	42	
689,560	4.266	42	30	24	17	12	8	6	31	42	
689,480	4.259	29	19	15	10	7	5	4	31	43	
689,401	4.277	30	19	15	10	7	5	4	31	44	
689,320	4.259	29	19	15	11	8	7	6	31	44	
689,240	4.282	23	15	12	9	6	5	4	31	42	
689,160	4.297	31	22	18	13	8	6	4	32	44	
689,081	4.274	28	20	17	13	9	7	6	32	43	
689,001	4.290	31	20	16	11	7	6	4	31	44	
688,921	4.281	27	19	16	12	9	7	6	32	44	km 688 = 1000m
688,840	4.274	29	19	14	10	7	5	4	32	43	
688,757	4.335	32	21	16	11	8	6	5	32	43	
688,679	4.270	23	15	11	7	4	3	3	32	44	
688,600	4.288	27	19	17	13	9	7	5	32	44	
688,518	4.262	32	22	18	13	10	8	6	32	43	
688,441	4.291	27	17	14	10	7	5	4	32	44	
688,361	4.266	24	16	13	10	7	5	4	31	37	
688,279	4.305	24	18	16	13	10	8	6	31	26	
688,201	4.286	30	22	19	15	11	8	6	32	44	
688,118	4.262	36	27	23	18	14	11	9	32	43	
688,040	4.278	34	23	18	12	8	6	5	32	46	
687,958	4.253	34	24	20	15	11	8	6	31	46	km 687 = 1030m
687,879	4.252	35	23	18	12	8	5	4	32	45	
687,801	4.278	28	18	15	11	8	6	5	31	44	
687,720	4.237	31	21	17	13	9	7	5	32	44	
687,641	4.282	29	21	17	13	9	7	5	32	40	
687,560	4.259	32	22	18	13	10	7	5	32	43	
687,480	4.290	42	29	23	17	12	10	8	32	43	
687,400	4.307	29	18	14	9	6	5	4	32	46	
687,321	4.280	31	20	15	10	7	5	4	32	40	
687,240	4.280	23	16	13	9	7	5	4	31	45	
687,158	4.287	23	15	12	9	7	6	5	31	43	
687,077	4.286	26	18	15	11	8	6	5	32	45	
686,999	4.278	27	19	15	11	7	6	4	32	40	
686,921	4.282	32	25	22	17	12	9	7	32	33	km 686 = 1010m
686,841	4.265	49	36	29	20	14	10	8	32	32	
686,761	4.262	46	34	29	21	15	10	8	33	39	
686,678	4.276	51	37	29	20	12	8	6	33	46	
686,601	4.279	40	28	21	13	8	5	4	33	43	
686,519	4.256	41	30	25	18	12	7	5	33	43	
686,439	4.268	61	44	34	22	13	8	6	32	44	
686,358	4.284	28	20	17	12	8	6	4	32	33	
686,279	4.267	33	24	21	16	11	8	5	32	36	
686,201	4.258	39	28	23	16	11	7	5	33	47	
686,119	4.262	41	29	24	17	12	8	6	33	46	
686,040	4.260	42	28	20	13	8	6	4	33	47	
685,961	4.208	80	61	50	34	20	11	6	31	47	km 685 = 1000m
685,881	4.206	65	49	42	30	21	14	10	32	46	
685,801	4.247	47	36	30	23	16	11	7	31	45	
685,719	4.247	55	41	32	20	11	7	4	31	44	
685,639	4.283	19	13	10	9	7	6	4	32	45	
685,560	4.218	75	56	42	25	12	6	4	31	45	
685,478	4.238	94	66	49	31	15	10	6	31	46	
685,400	4.226	93	73	57	37	18	10	7	31	46	
685,320	4.248	52	40	33	24	16	10	6	31	46	
685,239	4.262	68	49	39	26	15	8	5	32	46	
685,160	4.222	82	65	51	32	16	9	6	32	43	
685,080	4.256	46	34	28	20	13	8	5	31	47	
684,998	4.266	45	31	26	19	12	8	6	31	46	
684,921	4.220	71	54	45	32	20	12	8	32	45	km 684 = 1000m
684,841	4.220	83	67	53	36	21	12	8	31	43	
684,760	4.210	71	55	44	29	16	11	8	32	45	
684,680	4.175	98	79	66	48	28	17	11	31	46	
684,600	4.240	70	51	39	26	18	13	9	31	47	
684,523	4.215	60	44	34	24	16	12	8	31	47	
684,439	4.242	52	31	21	13	8	6	4	31	48	
684,357	4.249	46	33	24	16	9	6	4	31	47	
684,280	4.236	58	46	39	28	18	12	8	31	45	
684,199	4.257	45	33	27	19	13	9	7	32	46	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
684,120	4.254	53	39	29	19	13	9	7	32	45	
684,041	4.272	36	28	22	16	11	9	6	32	46	
683,880	4.268	55	40	30	20	12	7	5	33	45	km 683 = 900m
683,800	4.249	61	42	31	20	13	9	6	33	47	
683,721	4.238	75	48	34	21	13	9	6	33	47	
683,640	4.254	54	37	25	16	9	6	4	32	47	
683,561	4.242	54	41	33	23	16	11	7	33	43	
683,480	4.288	44	28	21	13	8	6	4	33	48	
683,400	4.263	54	38	28	17	10	6	4	33	50	
683,321	4.249	48	33	25	16	10	7	5	32	48	
683,241	4.263	53	38	29	19	12	8	6	33	48	
683,160	4.250	48	32	23	13	7	4	3	33	46	
683,080	4.266	39	26	21	15	11	7	5	32	49	
683,000	4.254	37	26	21	14	9	6	4	33	42	
682,919	4.266	43	32	25	17	11	7	6	33	40	km 682 = 1150m
682,841	4.236	46	35	29	21	14	10	6	33	47	
682,760	4.220	56	42	34	23	15	11	8	33	47	
682,681	4.233	46	28	23	15	10	7	5	32	43	
682,599	4.223	47	36	30	21	13	8	5	33	45	
682,518	4.217	73	53	43	31	22	15	10	33	45	
682,440	4.215	103	75	59	37	21	12	7	33	39	
682,358	4.268	52	35	28	19	12	9	6	33	46	
682,279	4.252	52	38	32	23	16	11	8	33	36	
682,202	4.247	54	42	35	26	18	12	8	32	43	
682,118	4.196	84	62	49	34	21	14	10	33	43	
682,040	4.184	91	66	52	34	19	11	7	33	43	
681,960	4.248	70	49	39	27	17	11	8	32	43	km 681 = 1000m
681,881	4.182	106	78	61	42	27	17	11	33	44	
681,959	4.231	82	62	52	38	25	17	11	32	44	início de ponte km 681,883 fim de ponte km 681,850
681,801	4.292	37	29	24	17	11	8	6	33	47	
681,718	4.236	62	48	41	31	22	17	13	33	46	
681,640	4.254	45	35	29	21	16	12	9	33	46	
681,559	4.233	58	45	38	27	19	14	11	33	48	
681,481	4.265	50	42	36	27	19	14	11	33	47	
681,400	4.229	77	58	48	34	23	16	12	32	46	
681,319	4.222	56	44	37	25	16	12	9	32	48	
681,241	4.202	69	56	46	31	19	12	9	33	49	
681,159	4.204	72	52	40	26	17	12	10	33	47	
681,079	4.218	48	39	34	24	16	11	8	33	49	
681,001	4.265	52	37	29	20	14	11	9	33	47	
680,918	4.269	26	18	15	10	7	6	4	33	37	km 680 = 1000m
680,840	4.225	44	29	22	15	9	7	5	33	43	
680,758	4.215	46	31	23	14	9	7	5	33	45	
680,680	4.204	55	41	32	22	14	9	7	33	43	
680,597	4.222	39	29	23	15	10	7	6	32	43	
680,519	4.211	71	48	37	25	15	10	7	33	44	
680,440	4.163	100	76	60	43	26	16	10	33	43	
680,360	4.184	46	34	29	21	14	8	5	33	33	
680,279	4.263	33	21	17	11	7	5	4	33	37	
680,199	4.274	45	33	27	17	10	7	5	33	35	
680,119	4.256	22	16	13	8	5	3	3	32	44	
680,039	4.218	85	60	43	23	12	8	5	33	37	
679,960	4.261	59	41	31	18	10	7	5	33	36	km 679 = 1040m
679,877	4.285	57	45	38	28	19	13	9	33	37	
679,800	4.373	57	49	26	18	11	8	6	26	24	
679,721	4.383	43	31	24	15	8	6	5	26	32	
679,640	4.387	45	36	30	21	14	10	7	26	29	
679,560	4.403	21	16	13	10	7	5	4	26	35	
679,479	4.401	36	28	22	17	12	8	6	26	34	
679,399	4.383	20	15	14	12	10	8	6	26	34	
679,318	4.430	15	10	9	8	7	6	6	27	33	
679,240	4.391	30	25	22	18	14	10	7	27	33	início de ponte km 679,214 fim de ponte km 679,184
679,160	4.329	56	46	40	32	24	15	9	27	31	
679,081	4.447	30	25	23	19	14	10	7	27	31	
678,998	4.418	22	18	16	13	9	7	5	27	34	km 678 = 1000m
678,919	4.342	28	25	24	19	14	10	8	26	24	
678,839	4.366	24	19	17	13	10	7	5	27	32	
678,760	4.383	27	23	21	18	15	12	9	27	21	
678,681	4.372	29	26	25	22	18	15	11	27	21	
678,600	4.386	30	26	24	21	17	14	11	27	22	
678,520	4.392	14	12	12	11	10	8	7	26	28	
678,441	4.393	16	14	13	12	10	8	7	27	22	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
678.360	4.391	24	20	19	16	14	11	9	27	22	
678.281	4.358	32	28	26	22	17	13	10	26	32	
678.199	4.309	60	50	45	36	27	20	13	27	31	
678.120	4.340	43	35	30	23	16	11	7	27	24	
678.040	4.375	51	41	35	26	18	12	8	27	34	
677.959	4.345	25	21	20	17	14	11	9	27	31	km 677 = 1020m
677.879	4.325	25	22	21	18	15	12	9	27	31	
677.800	4.371	21	18	16	14	11	9	7	26	32	
677.721	4.377	23	20	18	15	12	10	7	27	33	
677.640	4.340	22	18	17	15	13	10	8	26	33	
677.560	4.354	23	20	18	16	13	11	8	27	33	
677.481	4.332	37	30	28	23	18	14	10	27	33	
677.400	4.321	27	23	22	19	16	12	9	27	30	
677.320	4.329	30	26	24	21	17	14	11	27	25	
677.241	4.332	26	23	22	19	16	13	10	26	22	
677.158	4.370	18	16	16	14	12	10	8	27	22	
677.079	4.338	30	26	24	21	17	14	11	27	28	
677.000	4.332	40	33	31	26	21	17	13	27	23	
676.919	4.325	32	28	26	23	19	16	12	27	26	km 676 = 1360m
676.840	4.323	27	24	23	21	18	15	12	27	22	
676.760	4.348	27	23	22	19	15	13	10	27	22	
676.681	4.325	45	38	35	31	25	20	15	27	33	
676.599	4.354	28	23	21	18	14	11	9	26	32	
676.519	4.345	31	27	25	22	18	14	11	27	32	
676.440	4.344	28	23	20	17	13	10	7	27	35	
676.358	4.327	29	23	21	17	14	11	8	26	34	
676.278	4.341	24	19	18	16	13	11	9	27	36	
676.201	4.338	30	26	24	20	15	12	8	27	32	
676.119	4.356	19	16	14	11	8	6	4	27	33	
676.037	4.332	29	25	24	20	17	13	10	28	33	
675.959	4.362	15	13	13	11	9	7	6	27	23	
675.880	4.290	78	57	44	30	18	12	8	27	31	
675.800	4.321	46	28	19	10	6	4	3	28	36	
675.719	4.319	55	36	26	16	11	8	6	27	34	
675.959	4.343	19	15	13	11	8	6	4	27	38	km 675 = 1000m
675.879	4.330	28	23	21	14	10	7	5	28	36	
675.799	4.316	41	31	26	21	16	11	8	28	26	
675.721	4.325	31	25	22	18	14	10	7	29	25	
675.639	4.370	12	10	10	9	9	8	7	29	29	
675.559	4.327	28	23	21	17	13	9	7	28	35	
675.480	4.356	24	20	19	17	14	11	8	29	33	
675.401	4.340	31	27	25	22	18	14	10	29	28	
675.321	4.340	26	22	21	19	16	14	11	29	34	
675.240	4.345	23	19	17	14	11	8	6	29	34	
675.161	4.345	25	22	20	17	14	11	9	28	37	
675.079	4.315	28	23	21	18	14	11	8	29	35	
675.001	4.298	29	24	22	18	15	11	8	29	34	
674.600	4.325	25	21	19	16	13	10	8	29	34	km 674 = 670m
674.521	4.331	22	19	18	16	13	11	9	29	34	
674.441	4.306	25	20	19	16	13	10	8	28	37	
674.360	4.311	22	17	16	13	10	7	5	29	37	
674.280	4.298	29	24	22	18	14	10	7	29	37	
674.200	4.284	34	28	26	22	18	14	11	29	36	
674.121	4.309	30	26	25	22	18	15	12	29	36	
674.040	4.303	26	21	20	17	13	10	8	29	37	
673.960	4.294	31	26	23	19	14	10	8	30	38	km 673 = 1000m
673.879	4.326	16	14	13	11	10	8	6	30	26	
673.800	4.272	32	28	27	24	21	18	14	30	38	
673.719	4.267	29	25	23	19	15	12	9	29	39	
673.640	4.309	40	32	28	22	16	12	9	29	39	
673.559	4.328	22	18	16	14	11	8	6	30	38	
673.477	4.299	27	23	21	17	14	10	7	30	38	
673.397	4.308	25	21	19	16	12	9	7	30	38	
673.318	4.292	22	19	18	15	12	10	7	30	37	
673.241	4.314	25	21	19	16	13	10	8	29	38	
673.160	4.303	21	18	17	15	12	10	7	29	26	
673.077	4.321	25	22	20	18	15	12	9	30	38	
673.000	4.299	22	19	17	15	12	10	7	30	35	
672.919	4.292	16	14	13	11	10	8	6	30	32	km 672 = 1020m
672.840	4.310	29	23	21	16	11	7	5	30	27	
672.758	4.303	46	36	30	22	16	11	8	30	38	
672.681	4.284	47	36	29	20	12	7	5	30	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773,4 ao km 597,0						DATA: fev/2007			
PISTA: Multivia / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
672,600	4,261	69	57	48	36	25	17	11	29	37	
672,519	4,232	85	66	53	37	22	13	8	30	37	
672,440	4,261	72	55	45	32	19	11	9	29	24	
672,362	4,334	57	41	29	19	11	7	5	29	35	
672,280	4,283	88	67	52	35	21	14	9	30	38	
672,199	4,260	66	50	39	26	16	10	7	29	37	
672,120	4,323	24	19	17	14	10	8	5	29	39	
672,040	4,315	24	20	19	16	12	9	6	30	37	
671,960	4,328	21	17	16	14	11	8	6	30	41	km 671 = 1000m
671,880	4,310	21	16	14	11	8	5	4	31	40	
671,799	4,307	34	29	27	23	19	16	13	31	41	
671,720	4,307	24	20	18	14	11	8	5	31	38	
671,640	4,294	26	21	19	16	13	10	7	30	41	
671,560	4,325	25	21	20	16	13	10	8	30	39	
671,481	4,299	28	23	20	16	12	8	6	30	34	
671,399	4,283	72	59	50	38	26	20	14	30	38	
671,320	4,238	105	80	61	38	20	9	5	30	42	
671,240	4,281	75	59	48	32	19	12	7	30	40	
671,160	4,204	62	47	37	24	14	9	6	30	42	
671,079	4,348	26	23	21	17	13	10	7	29	39	
670,999	4,330	29	24	22	19	15	12	9	30	38	
670,921	4,322	14	11	10	8	6	5	4	30	29	km 670 = 1000m
670,838	4,297	33	26	23	17	12	8	5	31	39	
670,758	4,317	12	10	9	8	6	5	4	30	28	
670,681	4,321	23	20	18	16	13	10	8	32	29	
670,600	4,337	17	14	13	10	7	5	3	31	27	
670,520	4,334	24	21	19	16	13	10	7	31	30	
670,438	4,312	24	20	19	16	13	10	8	31	35	
670,360	4,292	30	24	22	17	12	9	5	31	40	
670,279	4,276	60	46	37	26	16	9	6	31	37	
670,201	4,267	72	56	45	31	19	11	7	31	36	
670,119	4,313	34	23	18	11	5	2	1	32	34	
670,039	4,288	71	57	48	36	24	16	10	31	25	
669,960	4,283	55	39	30	19	11	6	4	31	28	km 669 = 1010m
669,879	4,303	45	33	26	17	10	6	4	32	34	
669,801	4,332	41	31	25	17	10	6	4	32	25	
669,721	4,301	78	62	51	38	24	17	12	31	24	
669,639	4,295	45	34	28	19	12	7	5	31	37	
669,560	4,247	48	37	31	23	16	11	7	31	41	
669,479	4,299	26	21	18	15	11	8	6	31	40	
669,399	4,313	16	13	12	10	8	6	5	31	37	
669,319	4,270	30	24	22	19	15	11	9	32	41	
669,244	4,297	31	24	21	16	12	10	8	32	30	
669,156	4,301	22	18	16	13	10	8	6	31	40	
669,081	4,332	26	22	21	18	14	11	9	31	38	
668,999	4,303	26	21	19	16	13	10	7	31	40	
668,921	4,277	23	19	18	15	12	9	7	31	42	km 668 = 1010m
668,839	4,327	27	21	19	15	11	8	6	32	43	
668,760	4,286	77	56	43	27	17	13	10	32	42	
668,680	4,286	59	44	32	20	12	9	7	31	40	
668,601	4,315	56	41	29	18	12	9	7	32	41	
668,519	4,327	70	52	40	25	17	13	10	31	40	
668,441	4,264	83	63	49	33	22	16	10	31	41	
668,360	4,289	66	49	37	23	14	9	6	32	37	
668,281	4,298	43	28	21	14	8	6	4	31	41	
668,197	4,284	53	39	29	17	11	8	6	32	32	
668,120	4,278	59	43	32	21	13	9	7	31	41	
668,039	4,305	39	28	21	14	9	6	5	31	42	
667,957	4,278	37	26	21	15	9	6	5	31	42	km 667 = 1000m
667,881	4,277	27	21	19	16	13	11	9	32	42	
667,799	4,259	33	25	22	17	13	9	6	32	43	
667,719	4,288	23	18	17	13	10	7	5	31	43	
667,640	4,295	17	15	14	12	10	8	6	31	37	
667,559	4,272	38	29	25	18	13	9	7	31	42	
667,481	4,305	36	26	22	16	10	7	5	31	42	
667,399	4,288	49	37	30	22	15	11	8	31	43	
667,321	4,304	49	35	26	17	9	6	4	32	43	inicio de ponte km 667,188
667,238	4,277	51	38	30	20	13	9	6	32	46	fim de ponte km 667,184
667,080	4,277	72	53	42	28	17	12	8	32	47	inicio de ponte km 667,010
666,919	4,288	35	24	19	13	9	6	5	31	41	km 666 = 1000m
666,842	4,325	40	31	26	18	11	6	2	31	28	fim de ponte km 666,940
666,760	4,340	11	8	8	6	5	4	3	31	42	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
666,681	4.294	19	15	14	12	9	7	6	32	43	
666,600	4.266	17	13	12	10	8	7	5	31	42	
666,519	4.273	16	13	12	10	8	7	5	31	42	
666,440	4.269	51	38	32	23	16	11	7	31	40	
666,360	4.279	45	34	27	20	14	10	7	32	44	
666,281	4.250	70	48	37	23	14	9	6	32	45	
666,201	4.230	84	64	52	37	25	16	10	31	45	
666,121	4.230	80	61	50	36	25	18	12	31	45	
666,040	4.266	50	37	30	20	12	8	6	31	37	
665,960	4.311	51	37	28	17	9	6	4	31	44	km 665 = 1050m
665,880	4.257	64	50	42	31	21	15	11	31	32	
665,802	4.269	76	55	42	28	17	14	10	31	44	
665,719	4.270	67	48	36	20	13	9	7	31	29	
665,640	4.230	84	59	40	28	16	10	7	32	45	
665,560	4.185	102	80	66	47	32	21	14	32	45	
665,481	4.199	112	86	68	48	31	20	13	31	44	
665,400	4.243	142	108	84	59	38	25	14	31	44	
665,321	4.351	30	25	22	17	12	8	5	31	44	
665,239	4.288	34	26	24	18	14	10	7	32	46	
665,158	4.239	62	48	42	32	23	16	11	32	48	
665,081	4.257	53	38	29	19	12	8	6	31	47	
665,001	4.265	68	52	43	31	21	16	11	31	46	
664,919	4.239	79	57	43	27	15	10	6	31	45	km 664 = 1010m
664,840	4.268	92	65	50	32	18	10	6	32	46	
664,758	4.304	60	45	37	25	16	11	8	32	40	
664,679	4.344	28	22	19	15	11	8	6	31	45	
664,599	4.333	19	14	12	9	7	5	3	31	47	
664,519	4.311	27	21	19	15	12	9	6	31	44	
664,439	4.309	19	15	13	11	9	8	6	32	45	
664,362	4.288	40	32	27	21	14	9	6	32	47	
664,279	4.279	39	30	27	21	15	10	7	32	45	
664,201	4.266	23	18	15	12	9	6	4	31	41	
664,119	4.293	19	15	13	11	9	6	4	32	43	
664,040	4.306	17	14	13	11	9	7	6	32	29	
663,960	4.429	16	14	13	11	9	7	5	24	28	km 663 = 1020m
663,880	4.363	19	15	14	12	10	8	6	24	30	
663,801	4.403	39	30	26	20	15	10	7	24	30	
663,721	4.403	43	31	26	20	14	10	7	24	30	
663,640	4.395	39	32	28	20	15	10	7	25	31	
663,560	4.402	36	30	27	22	16	11	7	25	31	
663,481	4.381	47	35	29	21	13	8	5	25	30	
663,401	4.383	41	31	27	20	14	9	6	26	31	
663,320	4.375	51	38	31	23	15	10	7	25	30	
663,240	4.386	47	35	28	21	13	9	6	25	31	
663,158	4.289	100	73	52	29	14	8	6	25	29	
663,079	4.354	65	49	37	26	15	9	7	25	27	
663,000	4.415	53	40	34	24	16	10	7	25	29	
662,919	4.395	45	35	29	22	15	9	5	25	30	km 662 = 1000m
662,839	4.359	72	56	48	35	22	14	9	26	28	
662,761	4.372	43	34	29	22	16	11	8	25	29	
662,681	4.388	40	31	26	20	13	9	7	25	26	
662,600	4.366	48	38	33	25	17	11	7	25	29	
662,520	4.352	46	37	33	26	19	13	9	25	27	
662,441	4.343	49	43	39	32	24	16	11	26	30	
662,359	4.402	20	17	16	14	12	10	8	25	30	
662,279	4.362	25	21	20	17	14	11	8	26	28	
662,198	4.375	15	12	12	10	9	7	6	26	30	
662,119	4.375	9	7	6	5	4	4	2	26	29	
662,039	4.357	18	14	13	11	9	6	5	26	28	
661,962	4.375	39	18	11	6	4	3	2	26	30	km 661 = 1025m
661,799	4.323	58	44	36	26	17	11	7	26	31	início de ponte km 661,925
661,720	4.390	32	19	13	9	7	6	5	25	32	fim de ponte km 661,879
661,639	4.361	40	29	24	18	12	8	6	26	32	
661,560	4.371	19	15	14	12	9	7	5	26	32	
661,479	4.377	14	11	10	8	7	5	4	26	32	
661,401	4.344	49	39	35	28	20	12	8	26	31	
661,321	4.364	46	36	29	21	13	8	6	27	32	
661,241	4.305	72	51	38	21	12	7	5	26	32	
661,160	4.275	74	53	39	24	15	10	7	27	32	
661,079	4.374	45	31	21	11	5	3	2	27	25	
661,000	4.372	48	36	29	20	13	8	6	27	30	
660,919	4.361	71	53	39	25	15	8	5	26	24	km 660 = 1000m

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
660,840	4.383	35	25	21	15	11	7	4	26	29	
660,758	4.361	16	14	13	12	10	9	7	26	30	
660,681	4.354	19	16	15	12	9	7	5	27	32	
660,600	4.345	28	22	20	16	13	9	6	27	32	
660,518	4.325	29	22	20	16	12	9	6	26	33	
660,439	4.348	42	33	29	22	15	11	8	27	32	
660,360	4.323	40	31	24	18	11	7	6	27	32	
660,281	4.374	29	24	22	17	13	9	6	27	33	
660,201	4.311	73	61	53	41	27	17	11	26	33	
660,121	4.381	23	19	18	15	11	8	6	26	27	
660,040	4.338	30	25	22	17	13	9	6	26	34	
659,961	4.348	41	32	27	20	15	10	8	26	34	km 659 = 1000m
659,881	4.331	51	37	30	20	12	8	3	26	29	
659,799	4.323	40	31	26	19	13	8	6	27	35	
659,719	4.305	74	57	47	33	21	13	7	27	29	
659,640	4.313	88	70	53	33	21	14	10	27	35	
659,559	4.370	73	55	41	28	19	14	10	27	34	
659,480	4.372	68	52	42	29	18	12	8	26	34	
659,399	4.300	96	70	50	31	20	13	9	27	34	
659,319	4.320	60	46	37	25	16	11	9	27	33	
659,240	4.302	83	64	50	32	19	12	9	27	35	
659,160	4.381	35	30	27	22	16	12	8	27	26	
659,081	4.313	72	53	44	33	21	14	10	27	35	
659,001	4.311	41	34	31	26	19	14	11	26	35	
658,919	4.345	18	15	14	13	11	9	7	26	34	km 658 = 1000m
658,842	4.354	14	11	10	8	7	5	4	27	27	
658,761	4.341	10	9	8	7	6	5	4	27	36	
658,679	4.346	40	30	22	15	7	5	4	26	36	
658,599	4.314	41	35	31	26	20	15	11	26	37	
658,520	4.307	76	56	43	26	16	11	8	27	36	
658,440	4.351	31	27	25	21	17	13	9	28	36	
658,360	4.348	21	17	16	13	10	8	6	27	29	
658,277	4.344	16	13	12	10	8	6	2	27	27	
658,201	4.329	24	19	17	14	11	8	6	28	36	
658,119	4.337	14	10	10	9	7	6	5	28	35	
658,040	4.337	13	10	10	8	7	5	4	27	33	
657,958	4.360	13	10	9	8	7	6	5	27	35	km 657 = 1000m
657,881	4.338	16	12	11	9	7	5	4	28	30	
657,801	4.319	13	10	9	8	6	5	3	28	36	
657,719	4.319	24	20	18	15	12	9	7	28	30	
657,640	4.317	17	14	13	12	10	8	6	27	36	
657,559	4.323	25	21	20	17	14	11	8	28	37	
657,479	4.326	18	15	14	11	9	7	4	28	38	
657,401	4.222	82	65	49	33	19	10	5	29	37	
657,319	4.314	57	40	29	15	7	5	4	27	35	
657,241	4.310	47	36	29	19	11	7	5	27	28	
657,160	4.305	62	43	32	16	9	6	4	28	27	
657,080	4.301	30	24	20	15	11	7	5	28	29	
656,999	4.258	68	51	39	26	17	12	9	28	33	
656,920	4.256	95	73	59	44	29	18	12	28	34	km 656 = 1000m
656,841	4.278	76	60	48	35	25	19	13	28	34	
656,760	4.312	59	47	36	26	19	14	9	29	34	
656,681	4.260	82	62	46	32	24	16	11	27	35	
656,599	4.317	63	50	38	26	16	12	9	28	35	
656,521	4.287	73	52	36	22	11	7	5	28	35	
656,439	4.321	70	54	42	29	18	12	9	27	36	
656,360	4.350	46	38	32	24	17	11	7	27	37	
656,279	4.335	28	22	19	14	10	6	4	29	38	
656,197	4.328	42	36	31	25	18	11	4	28	38	início de ponte km 656,136
656,038	4.366	13	8	7	6	4	4	3	28	36	fim de ponte km 656,093
655,959	4.344	26	19	16	12	9	7	5	29	35	km 655 = 1000m
655,879	4.331	27	20	18	14	10	7	6	28	35	
655,799	4.331	33	25	21	15	10	7	4	28	38	
655,721	4.311	43	34	29	23	17	12	9	28	37	
655,640	4.310	56	46	39	30	22	15	10	29	30	
655,562	4.247	65	54	48	34	21	16	11	28	27	
655,481	4.265	61	50	43	33	23	15	11	29	26	
655,401	4.319	49	40	35	24	16	11	8	29	26	
655,317	4.296	43	31	25	18	12	8	6	29	37	
655,239	4.312	42	32	27	20	13	8	6	29	36	
655,159	4.256	63	46	38	28	19	14	9	28	36	
655,081	4.263	70	57	49	37	24	16	11	28	36	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
655,001	4.269	58	48	41	29	20	12	8	29	36	
654,921	4.307	45	36	31	22	15	10	7	28	38	km 654 = 1000m
654,842	4.297	15	10	8	7	6	5	4	29	38	
654,758	4.324	26	17	12	9	7	6	5	29	37	
654,681	4.326	23	16	13	10	8	7	6	29	37	
654,599	4.337	20	12	9	7	6	5	4	29	37	
654,521	4.299	16	9	6	4	3	3	2	28	38	
654,441	4.342	24	15	12	9	8	7	6	29	39	
654,360	4.297	26	17	12	9	8	7	6	28	38	
654,280	4.290	16	10	7	6	5	4	4	28	38	
654,199	4.326	28	19	15	10	6	5	4	29	37	
654,121	4.319	15	10	9	8	7	6	5	29	38	
654,037	4.344	14	10	9	8	7	6	5	29	38	
653,800	4.328	15	10	9	8	7	6	5	29	39	km 653 = 840m
653,721	4.274	20	15	14	13	11	9	7	30	38	
653,640	4.328	11	7	6	5	4	3	1	29	38	
653,559	4.314	16	11	11	9	8	7	4	29	39	
653,481	4.283	42	34	30	24	17	12	8	29	35	
653,399	4.276	47	37	32	24	16	11	8	29	30	
653,319	4.273	46	35	30	22	15	10	6	30	27	
653,241	4.258	62	48	41	31	21	14	9	29	29	
653,159	4.301	52	36	26	17	12	9	7	29	36	
653,080	4.283	52	30	21	14	11	9	9	29	41	
652,999	4.267	49	27	17	11	7	6	5	30	41	
652,919	4.265	42	24	16	10	7	5	4	29	37	km 652 = 1060m
652,840	4.265	49	28	18	12	9	7	6	30	38	
652,761	4.252	49	26	15	8	5	4	3	30	40	
652,680	4.265	53	40	34	27	21	15	11	30	41	
652,599	4.257	39	32	28	22	16	11	8	29	40	
652,520	4.285	41	33	28	21	14	9	5	30	39	
652,437	4.242	60	45	35	23	13	7	5	29	38	
652,359	4.273	43	33	27	19	12	7	4	30	36	
652,281	4.220	56	44	33	23	12	8	3	29	38	
652,199	4.246	54	42	35	25	17	11	8	30	39	
652,121	4.258	44	33	28	20	13	8	6	30	38	
652,038	4.233	53	41	35	26	18	12	8	29	40	
651,957	4.264	46	34	27	18	10	4	3	30	38	km 651 = 1010m
651,959	4.239	60	48	41	32	23	17	12	29	39	
651,881	4.244	67	55	45	32	21	16	11	30	41	
651,800	4.292	45	37	32	26	19	14	11	29	42	
651,721	4.352	25	21	19	16	12	9	7	29	43	
651,641	4.311	13	9	8	6	5	4	3	30	41	
651,559	4.307	12	7	6	5	4	3	3	29	39	
651,479	4.319	12	8	7	6	5	4	3	30	39	
651,400	4.294	16	11	11	9	7	5	4	29	40	início de ponte km 651,356
651,239	4.303	12	8	7	5	4	3	2	30	40	fim de ponte km 651,313
651,160	4.309	19	15	13	11	9	7	5	30	42	
651,079	4.292	21	16	14	11	8	6	4	30	41	
650,997	4.301	22	15	14	12	9	6	5	29	41	km 650 = 1000m
650,921	4.280	13	8	8	7	6	5	4	30	42	
650,840	4.317	27	22	18	13	9	6	5	30	41	
650,760	4.298	31	25	21	16	11	7	4	29	42	
650,681	4.244	50	40	35	27	19	13	9	30	40	
650,599	4.255	55	39	31	21	12	7	5	29	39	
650,519	4.249	57	42	32	21	13	7	4	30	37	
650,438	4.215	59	44	36	24	15	10	5	30	38	
650,358	4.258	57	44	36	25	16	9	5	29	38	
650,279	4.263	38	29	24	17	12	8	6	29	38	
650,200	4.265	36	27	22	16	11	8	6	30	39	
650,120	4.289	47	35	28	18	10	6	3	29	38	
650,040	4.246	71	55	46	30	19	12	7	29	40	
649,959	4.233	81	65	54	38	25	15	9	31	39	km 649 = 1000m
649,881	4.246	43	33	28	20	14	9	7	31	38	
649,799	4.259	42	33	28	20	13	9	6	30	37	
649,721	4.255	53	37	25	15	8	5	4	30	37	
649,640	4.287	45	35	30	22	15	10	7	31	39	
649,560	4.289	41	32	29	23	17	13	8	30	38	
649,480	4.257	59	44	38	28	19	12	7	30	38	
649,400	4.294	46	36	32	24	17	13	8	30	30	
649,321	4.269	45	31	25	16	9	5	3	29	35	
649,242	4.248	52	38	31	21	12	7	4	30	42	
649,158	4.262	42	32	27	20	14	10	7	30	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
649,081	4.237	54	40	32	22	12	7	4	30	45	
648,999	4.267	49	37	31	22	14	9	6	29	45	km 648 = 1010m
648,919	4.255	61	44	32	19	11	7	5	30	45	
648,841	4.282	36	26	21	14	8	5	3	31	43	
648,760	4.264	50	37	31	21	14	9	6	31	47	
648,682	4.273	48	34	26	17	10	6	5	31	48	início de ponte km 648,641
648,599	4.253	56	38	28	17	9	6	5	31	45	fim de ponte km 648,616
648,521	4.255	47	36	31	23	16	12	9	32	42	
648,439	4.226	59	41	30	21	15	12	9	31	41	
648,357	4.253	53	43	34	26	19	13	10	31	41	
648,280	4.273	51	39	31	20	11	8	6	31	42	
648,201	4.267	62	45	33	19	11	8	6	32	40	
648,118	4.261	45	33	26	18	12	9	7	32	41	
648,037	4.257	43	33	27	20	13	9	7	31	41	
647,960	4.451	44	33	27	19	13	9	6	23	24	km 647 = 1020m
647,881	4.443	30	24	20	15	10	7	5	23	27	
647,801	4.378	63	49	39	25	14	9	6	22	28	
647,721	4.415	69	57	48	34	22	12	8	23	26	
647,640	4.446	57	43	35	25	16	11	8	23	27	
647,560	4.397	50	38	31	23	16	12	9	23	24	
647,479	4.389	59	46	40	31	22	15	10	23	27	
647,400	4.343	99	83	68	51	35	25	17	23	25	
647,319	4.420	79	61	51	37	25	18	12	24	24	
647,240	4.376	69	55	48	36	26	19	13	23	24	
647,159	4.406	60	41	35	26	19	13	9	23	26	
647,079	4.420	31	23	18	13	8	5	3	24	25	
647,001	4.418	46	34	27	18	10	5	3	24	27	
646,919	4.400	70	50	42	31	17	14	10	22	24	km 646 = 980m
646,840	4.397	66	53	42	31	20	15	10	23	23	
646,760	4.392	41	32	27	21	15	11	7	23	23	
646,680	4.372	55	44	27	16	12	8	6	23	29	
646,599	4.448	41	30	21	11	6	4	2	22	27	
646,521	4.372	56	39	28	19	11	7	4	23	29	
646,441	4.362	76	56	42	28	16	10	6	24	29	
646,360	4.357	72	56	42	29	19	13	9	24	26	
646,279	4.357	66	50	36	23	14	9	7	23	32	
646,200	4.330	95	79	61	43	30	19	13	24	29	
646,119	4.354	65	54	42	29	19	13	9	25	29	
646,040	4.379	51	37	28	18	11	7	6	24	35	
645,960	4.387	40	32	27	20	13	8	6	25	30	km 645 = 1040m
645,880	4.378	41	31	26	19	13	9	5	25	33	
645,799	4.323	58	46	34	23	15	10	7	24	35	
645,720	4.374	52	41	30	21	14	10	8	25	32	
645,640	4.410	24	18	15	10	6	4	3	25	27	
645,559	4.383	28	21	17	12	8	5	3	24	25	
645,481	4.374	26	19	16	12	9	6	5	25	28	
645,400	4.384	26	20	17	12	8	5	4	24	27	
645,320	4.358	31	23	19	14	9	6	4	25	36	
645,238	4.328	32	25	20	14	9	6	4	25	35	
645,160	4.360	30	24	20	15	10	7	4	25	27	
645,080	4.371	34	27	23	18	13	10	8	26	32	
644,999	4.348	43	33	28	21	15	11	9	25	35	
644,920	4.341	56	44	36	25	16	10	7	25	37	km 644 = 1020m
644,840	4.348	43	33	28	19	12	7	4	25	35	
644,760	4.348	46	32	26	17	9	5	3	26	34	
644,676	4.362	39	29	23	16	10	7	5	26	35	
644,599	4.368	38	29	25	19	12	8	5	26	36	
644,519	4.332	36	27	23	16	11	7	5	27	36	
644,439	4.292	69	54	47	37	27	19	13	27	29	
644,360	4.313	58	47	42	33	24	17	12	26	35	
644,279	4.330	40	28	22	14	8	5	3	26	37	
644,200	4.292	44	30	23	14	8	4	3	27	36	
644,119	4.303	33	24	20	14	9	6	4	27	33	
644,040	4.294	50	39	33	25	17	12	9	27	36	
643,959	4.305	50	41	37	30	23	18	14	27	36	km 643 = 1015m
643,880	4.300	42	33	28	22	16	12	9	27	36	
643,799	4.303	38	28	23	17	11	7	5	26	34	
643,720	4.300	48	36	31	22	15	10	7	27	35	
643,640	4.319	22	15	13	9	7	5	4	27	28	
643,558	4.284	60	46	32	19	11	7	5	27	27	
643,481	4.325	33	25	21	16	11	8	6	27	34	
643,401	4.343	52	37	31	23	16	11	7	27	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773,4 ao km 597,0				DATA: fev/2007					
PISTA: Multivia / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
643,320	4.340	35	26	21	15	10	6	4	27	27	
643,239	4.307	71	53	40	26	16	11	8	26	31	
643,162	4.276	71	55	42	28	19	13	10	26	35	
643,081	4.258	88	68	57	42	30	22	16	27	34	
642,999	4.298	50	36	26	17	11	8	6	27	31	
642,920	4.371	47	33	23	13	8	5	3	27	33	km 642 = 1015m
642,840	4.339	36	27	22	16	10	6	5	27	32	
642,761	4.342	32	25	20	15	9	6	3	28	30	
642,681	4.391	40	31	26	19	13	8	4	27	37	
642,600	4.317	39	30	24	17	11	8	6	27	38	
642,520	4.328	35	27	22	16	10	7	5	26	38	
642,441	4.294	41	33	28	21	14	10	7	27	38	
642,360	4.323	26	20	18	14	10	8	6	27	37	
642,279	4.321	16	13	11	9	7	5	4	28	35	
642,199	4.290	31	23	19	13	9	6	5	28	35	
642,119	4.337	27	20	17	12	9	7	5	28	37	
642,040	4.301	32	25	20	14	9	6	4	28	29	
641,960	4.314	34	27	23	17	12	9	7	28	36	km 641 = 1020m
641,880	4.303	45	36	31	23	16	11	8	26	29	
641,800	4.296	42	32	27	20	13	9	6	27	34	
641,719	4.278	63	47	37	25	15	10	7	27	41	
641,637	4.276	53	41	33	23	14	9	6	27	40	
641,560	4.278	61	47	40	28	18	10	6	28	40	
641,480	4.282	74	58	48	34	21	12	7	27	38	
641,401	4.299	45	33	27	19	12	8	6	27	30	
641,321	4.276	52	39	32	23	15	10	6	28	35	
641,240	4.269	84	70	59	43	25	16	11	27	30	
641,161	4.278	64	52	44	33	22	16	11	27	33	
641,079	4.245	103	85	66	43	24	16	11	28	34	
640,999	4.276	58	42	35	26	17	11	7	28	35	
640,920	4.240	82	62	46	27	13	8	7	28	34	km 640 = 1030m
640,840	4.274	79	64	50	32	19	13	9	27	34	
640,760	4.237	102	83	66	42	23	14	10	27	35	
640,680	4.283	60	46	39	29	19	12	9	28	37	
640,600	4.256	78	59	48	35	22	14	10	28	38	
640,519	4.212	123	105	86	65	43	28	17	27	37	
640,441	4.290	50	39	32	23	16	11	8	28	28	
640,358	4.280	46	36	31	24	15	11	9	28	34	
640,281	4.309	58	44	33	20	11	7	5	28	36	
640,197	4.296	64	49	35	22	13	9	6	28	37	
640,119	4.263	49	38	33	25	17	12	9	27	37	
640,040	4.237	84	67	57	36	22	14	10	28	37	
639,960	4.281	63	49	40	29	18	12	7	28	38	km 639 = 1000m
639,880	4.328	39	29	23	14	10	7	5	27	38	
639,799	4.245	99	80	65	46	30	20	13	28	42	
639,719	4.276	74	56	47	34	22	14	9	28	41	
639,639	4.235	84	66	53	38	25	17	12	28	39	
639,558	4.263	73	59	45	29	18	11	8	28	41	
639,481	4.288	62	46	37	25	17	11	9	28	40	
639,400	4.319	39	31	26	20	14	10	6	29	38	
639,318	4.317	34	26	22	17	11	8	5	28	38	
639,240	4.309	41	31	26	19	13	9	6	28	38	
639,161	4.282	54	45	39	30	22	16	11	29	32	
639,081	4.285	47	38	33	25	18	13	9	28	37	
639,001	4.292	49	38	33	25	18	13	9	29	30	
638,920	4.299	35	28	25	20	15	12	9	28	29	km 638 = 1000m
638,840	4.292	32	25	22	16	12	8	6	28	30	
638,760	4.301	37	30	26	20	15	11	7	29	27	
638,681	4.283	45	36	31	24	18	13	9	29	34	
638,600	4.269	50	41	36	28	20	15	11	28	35	
638,519	4.294	37	29	24	18	12	8	6	28	34	
638,438	4.265	44	36	32	26	20	15	12	28	35	
638,359	4.294	35	29	26	21	16	12	9	28	29	
638,279	4.281	47	37	31	22	15	10	7	29	30	
638,200	4.281	40	32	26	20	13	9	6	28	40	
638,120	4.267	47	36	30	22	15	10	7	28	36	
638,041	4.292	35	28	24	19	13	10	7	28	33	
637,960	4.328	46	36	31	24	17	12	9	29	38	km 637 = 1000m
637,881	4.272	43	35	30	23	16	12	8	28	34	
637,799	4.283	40	31	26	20	14	10	7	28	38	
637,719	4.247	62	49	42	32	22	15	10	28	39	
637,641	4.267	41	32	28	21	15	10	7	28	38	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
637,556	4.285	47	36	31	23	15	10	6	29	38	
637,479	4.283	40	31	27	21	15	11	6	28	39	
637,401	4.269	38	29	24	17	12	8	6	28	38	
637,320	4.280	33	26	22	17	12	8	6	28	29	
637,242	4.271	38	28	23	16	11	7	5	29	41	
637,160	4.267	43	33	26	18	11	7	5	28	41	
637,082	4.284	46	35	28	20	13	8	6	29	40	
636,999	4.276	41	31	25	18	11	8	6	29	41	km 637 = 634
633,961	4.244	82	61	46	27	14	8	6	29	40	km 633 = 960m
633,880	4.276	40	31	26	18	12	8	6	30	40	
633,800	4.276	30	24	22	18	14	10	8	30	35	
633,721	4.263	32	25	22	17	12	9	7	29	38	
633,640	4.240	35	27	23	17	12	8	6	30	37	
633,560	4.210	93	71	56	37	22	13	8	30	41	
633,480	4.212	54	38	27	17	9	6	4	30	40	
633,400	4.284	52	41	34	25	17	11	8	30	42	
633,320	4.261	39	29	25	18	12	8	6	30	43	
633,240	4.263	39	30	26	20	14	10	8	29	44	
633,160	4.256	45	35	29	21	13	9	6	30	43	
633,080	4.214	77	60	48	33	21	14	10	30	42	
633,000	4.239	65	50	42	29	18	13	9	29	44	km 633 = km 636
635,921	4.259	68	49	40	28	19	13	10	30	44	km 635 = 1000m
635,840	4.262	48	37	31	24	17	12	9	30	44	
635,760	4.246	42	33	28	21	15	10	7	30	45	
635,680	4.255	86	62	47	30	18	10	6	30	39	
635,600	4.245	76	54	40	24	14	9	7	29	43	
635,521	4.260	61	45	33	21	13	9	7	30	43	
635,441	4.197	101	81	69	46	28	17	11	30	43	
635,360	4.237	60	46	35	25	15	11	8	30	40	
635,280	4.243	59	46	37	25	15	8	6	30	44	
635,200	4.214	83	62	45	28	16	11	7	30	42	
635,120	4.277	61	43	33	21	13	9	7	30	42	
635,040	4.260	34	26	21	15	9	6	4	32	40	km 635 = km 632
631,960	4.246	49	35	29	20	12	8	6	31	39	
631,880	4.286	38	30	27	21	16	12	9	31	32	
631,800	4.221	73	60	47	33	20	14	10	30	30	
631,721	4.233	70	52	42	29	19	13	10	30	38	
631,641	4.240	52	40	34	25	17	12	9	30	32	
631,560	4.278	44	34	27	19	13	9	6	31	37	
631,480	4.199	81	63	50	32	21	15	10	31	35	
631,400	4.253	39	30	25	18	12	8	5	32	36	
631,321	4.242	51	36	28	17	10	6	5	31	37	
631,240	4.241	66	46	36	22	13	9	6	31	36	
631,160	4.246	41	31	26	20	15	11	9	31	36	
631,080	4.237	44	32	25	17	10	7	5	30	34	
631,000	4.201	89	68	51	32	19	12	8	31	36	
630,920	4.208	100	78	59	38	22	15	11	31	36	km 630 = 1090m
630,840	4.273	25	19	17	13	10	8	6	30	28	
630,760	4.257	36	29	24	17	11	7	5	30	29	
630,680	4.261	41	30	25	17	10	7	5	30	37	
630,600	4.262	51	37	30	20	12	7	5	30	36	
630,521	4.253	37	29	24	17	12	8	6	29	31	
630,440	4.280	37	29	24	18	12	9	6	30	36	
630,360	4.191	104	80	65	41	25	13	8	30	39	
630,280	4.173	109	82	66	41	26	16	10	30	37	
630,200	4.237	91	73	62	43	27	17	11	30	34	
630,120	4.228	76	54	38	23	13	9	6	30	38	
630,040	4.262	54	38	30	20	13	8	6	31	38	
629,921	4.332	32	22	17	10	6	4	3	32	40	km 629 = 890m
629,840	4.353	26	19	16	11	8	6	4	32	40	
629,760	4.337	35	26	22	17	12	9	7	33	40	
629,680	4.305	54	41	34	25	17	12	9	32	40	
629,600	4.332	31	23	19	13	9	6	5	32	40	
629,521	4.362	45	30	24	16	11	7	5	32	32	
629,440	4.354	43	32	26	19	13	8	5	31	38	
629,361	4.335	59	45	37	25	14	10	7	32	36	
629,240	4.329	54	39	30	19	13	9	7	32	39	
629,161	4.340	32	24	20	15	11	8	6	32	35	
629,080	4.342	35	30	27	22	16	11	8	32	28	
628,920	4.267	91	68	46	22	15	9	5	32	30	km 628 = 1050m
628,840	4.339	27	22	19	15	10	8	6	31	36	
628,759	4.269	27	20	16	12	8	5	4	32	39	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
628,679	4.312	38	19	12	9	7	5	4	32	40	
628,599	4.342	57	36	26	17	12	8	6	31	41	
628,519	4.326	47	30	23	16	11	8	6	32	42	
628,439	4.308	48	30	21	12	7	4	3	32	41	
628,359	4.303	19	12	9	7	5	4	3	31	41	
628,280	4.317	51	32	18	8	4	3	2	32	41	
628,202	4.297	55	38	25	11	5	3	3	32	41	
628,120	4.312	41	27	18	10	6	4	4	32	42	
628,039	4.265	50	35	26	17	11	8	7	32	42	
627,961	4.347	34	24	18	11	7	6	5	32	40	km 627 = 960m
627,959	4.317	44	34	28	20	13	9	6	32	41	
627,880	4.300	64	52	43	32	21	13	9	31	40	
627,801	4.263	109	89	70	40	20	14	10	31	42	
627,720	4.292	42	31	26	19	13	9	7	32	41	
627,641	4.229	71	52	42	28	15	10	7	32	43	
627,559	4.254	53	39	31	21	13	8	6	31	41	
627,481	4.224	77	58	48	34	21	13	8	31	40	
627,399	4.253	61	45	36	24	14	7	5	31	42	
627,319	4.283	53	41	34	23	13	7	4	31	42	
627,240	4.280	47	37	31	23	16	10	7	32	40	
627,161	4.319	101	68	48	28	16	11	6	32	39	
627,080	4.305	47	38	32	23	14	9	6	32	42	
627,001	4.315	54	42	35	26	17	11	8	32	43	
626,919	4.280	76	54	42	27	18	13	8	31	43	km 626 = 1020m
626,760	4.344	60	46	38	28	18	11	8	32	41	início de ponte km 626,856
626,679	4.315	52	40	33	24	17	12	9	32	43	final de ponte km 626,803
626,600	4.298	115	97	74	43	26	15	10	32	43	
626,519	4.260	113	88	65	40	22	14	10	31	42	
626,440	4.307	91	68	53	32	19	12	9	32	43	
626,360	4.317	48	37	30	21	13	9	6	32	42	
626,280	4.298	57	43	36	25	16	10	7	32	40	
626,197	4.267	109	75	49	20	9	7	5	31	41	
626,118	4.311	45	34	28	20	12	8	5	31	44	
626,041	4.294	72	56	46	33	21	13	8	31	45	km 625 = 1140m
626,121	4.297	55	38	25	11	5	3	3	31	41	
626,040	4.312	41	27	18	10	6	4	4	32	42	
625,959	4.278	40	32	28	21	15	11	8	32	39	início pista simples km 626,000
625,881	4.303	26	19	15	10	6	4	3	32	41	início de ponte km 625,823
625,721	4.226	88	61	45	29	17	10	6	32	45	final de ponte km 625,737
625,642	4.296	57	39	29	18	12	7	6	31	45	
625,560	4.265	76	53	41	27	17	11	8	31	44	
625,479	4.354	38	31	28	22	16	10	6	32	46	
625,399	4.254	90	76	61	46	28	14	8	32	45	
625,319	4.249	75	56	45	31	15	7	5	32	44	
625,241	4.203	90	64	42	21	12	7	5	32	44	final de pista simples km 625,268
625,160	4.354	27	19	15	10	7	6	4	32	45	
625,079	4.288	63	46	36	21	10	5	2	33	30	
624,999	4.255	69	49	38	26	15	8	5	32	42	
624,920	4.199	121	96	77	52	33	22	15	32	43	km 624 = 1060m
624,919	4.247	110	88	73	48	25	13	8	32	44	
624,841	4.260	53	38	30	20	12	7	6	31	43	
624,762	4.294	95	75	58	38	20	11	7	32	44	
624,680	4.307	101	76	57	34	16	8	5	32	44	
624,601	4.348	79	59	46	29	14	7	5	32	44	
624,520	4.207	91	69	56	38	22	14	8	32	43	
624,440	4.269	87	68	56	37	21	13	10	32	45	
624,357	4.253	97	77	65	48	30	19	13	32	45	
624,281	4.271	81	65	50	32	14	7	4	32	43	
624,199	4.207	109	88	68	46	23	10	6	32	46	
624,119	4.184	114	93	79	54	31	15	8	32	45	
624,040	4.277	97	77	64	44	24	12	7	32	45	
623,961	4.332	91	73	61	40	20	9	6	32	30	km 623 = 960m
623,959	4.283	86	62	48	31	15	9	7	31	45	
623,880	4.290	46	35	29	19	9	6	4	32	45	
623,800	4.308	41	30	24	17	10	7	5	33	44	
623,719	4.334	28	22	20	15	11	7	5	33	45	
623,640	4.306	61	46	37	25	16	10	5	32	46	
623,561	4.243	96	75	61	43	25	12	6	32	45	
623,479	4.354	38	31	28	22	16	10	6	32	46	
623,399	4.254	90	76	61	46	28	14	8	33	45	
623,319	4.249	75	56	45	31	15	7	5	32	44	
623,241	4.203	90	64	42	21	12	7	5	32	44	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
623,160	4.354	27	19	15	10	7	6	4	32	45	
623,079	4.288	63	46	36	21	10	5	2	33	30	
622,999	4.317	82	54	38	22	11	5	3	32	41	
622,919	4.259	93	68	47	25	10	6	5	32	42	km 622 = 1060m
622,840	4.354	81	64	53	39	25	15	9	32	44	
622,760	4.268	146	116	101	70	41	20	11	33	46	
622,680	4.265	84	65	55	40	25	14	8	33	44	
622,599	4.268	93	74	58	36	20	14	9	32	45	
622,520	4.225	96	74	61	39	24	13	8	33	45	
622,441	4.257	97	75	64	43	21	10	7	33	38	
622,361	4.214	105	81	67	37	22	11	7	32	45	
622,280	4.295	73	57	47	32	15	9	6	32	46	
622,200	4.225	118	88	73	43	18	10	8	33	45	
622,120	4.276	95	79	62	41	23	12	7	33	46	
622,042	4.222	135	106	75	41	19	10	7	33	46	
621,960	4.322	14	12	11	10	8	6	4	33	46	
621,959	4.303	18	14	13	10	7	5	4	33	45	km 621 = 1080m
621,881	4.311	25	19	17	13	9	6	4	32	46	
621,799	4.306	21	16	14	11	7	5	3	33	44	
621,720	4.313	18	15	14	12	10	7	5	33	46	
621,640	4.270	24	20	18	14	11	8	5	32	45	
621,558	4.322	22	18	16	12	9	7	5	32	47	
621,479	4.308	55	42	36	28	20	15	10	32	46	
621,399	4.387	25	19	17	14	10	7	5	33	47	
621,320	4.308	30	24	22	17	13	9	6	32	45	
621,242	4.290	38	30	26	19	13	8	5	32	46	
621,160	4.305	32	25	22	17	13	10	8	32	46	
621,080	4.342	22	15	12	9	7	5	4	33	46	
621,000	4.311	15	11	10	8	6	5	4	33	46	
620,920	4.338	15	12	12	10	8	7	6	33	47	km 620 = 1000m
620,919	4.346	16	13	11	9	7	5	4	32	42	
620,840	4.311	32	26	23	18	14	10	7	33	43	
620,759	4.349	16	11	10	7	6	4	3	33	46	
620,679	4.322	19	14	11	9	6	5	4	33	47	
620,600	4.313	20	15	13	9	6	4	3	33	37	
620,520	4.324	34	27	24	19	14	10	7	32	47	
620,439	4.321	39	29	24	18	12	8	6	32	48	
620,359	4.319	32	22	17	10	6	3	2	32	47	
620,280	4.299	26	20	17	13	9	6	5	33	47	
620,201	4.284	32	26	23	18	14	10	7	32	47	
620,120	4.300	22	17	16	13	10	8	6	33	46	
620,038	4.306	19	15	14	12	10	8	6	32	47	
619,959	4.352	36	28	26	21	16	12	9	26	33	km 619 = 1060m
619,882	4.311	13	11	10	9	8	7	6	26	34	
619,800	4.332	14	13	13	12	11	10	8	26	32	
619,720	4.314	28	21	18	14	11	8	7	26	31	
619,642	4.292	30	21	19	16	13	11	8	27	32	
619,560	4.316	24	20	17	14	11	8	7	27	33	
619,481	4.323	19	15	14	11	9	7	5	27	34	
619,400	4.322	9	7	7	6	6	5	4	26	33	
619,320	4.326	26	20	17	13	9	7	6	27	34	
619,240	4.323	11	9	8	8	7	6	5	27	34	
619,160	4.317	14	11	11	9	8	6	5	26	34	
619,079	4.308	18	15	14	11	8	6	5	27	35	
619,001	4.403	26	20	17	13	9	7	5	27	32	
618,919	4.378	28	19	16	12	8	6	5	27	33	km 618 = 1055m
618,840	4.344	17	15	13	11	9	7	6	26	33	
618,758	4.351	16	13	12	9	8	7	5	26	32	
618,668	4.389	13	12	11	8	7	6	5	27	32	
618,597	4.392	8	6	6	5	5	4	4	27	32	
618,520	4.371	22	18	16	13	10	6	5	27	32	
618,441	4.360	21	17	15	11	8	6	5	27	32	
618,361	4.398	19	14	12	10	8	7	5	26	33	
618,278	4.395	18	16	15	13	11	7	5	27	32	
618,199	4.342	22	16	13	9	6	4	3	27	33	
618,121	4.383	8	7	6	6	4	3	3	27	33	início de ponte km 618,102
618,038	4.387	7	6	5	5	5	4	4	27	33	final de ponte km 618,084
618,279	4.385	12	10	9	8	7	6	5	26	32	km 617 = 1300m
618,199	4.381	25	21	18	15	12	10	8	27	31	
618,121	4.359	19	16	14	12	9	7	6	27	31	
618,039	4.362	18	15	14	12	10	9	7	27	32	
617,960	4.400	7	6	6	6	5	5	4	27	32	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773,4 ao km 597,0						DATA: fev/2007			
PISTA: Multivia / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
617,878	4.389	12	10	10	8	7	6	5	26	32	
617,801	4.360	32	26	22	16	12	8	6	27	33	
617,720	4.394	42	32	26	18	12	8	6	27	33	
617,640	4.349	23	18	17	13	10	8	6	27	33	
617,560	4.338	56	39	32	24	16	11	8	27	32	
617,481	4.358	17	14	13	12	9	8	6	27	33	
617,400	4.358	18	15	14	12	10	8	6	27	32	
617,319	4.317	32	24	22	16	12	9	7	27	34	
617,240	4.333	45	33	26	17	12	9	7	28	32	
617,158	4.311	13	10	11	10	9	8	7	27	33	
617,080	4.340	12	10	9	7	6	5	4	27	33	
616,999	4.322	21	16	15	12	9	7	5	27	33	
616,920	4.344	40	31	26	21	14	11	9	27	33	km 616 = 970m
616,840	4.395	36	28	25	20	14	11	8	28	32	
616,759	4.356	89	62	37	23	13	9	7	27	29	
616,680	4.327	57	46	41	33	25	18	13	27	34	
616,600	4.324	59	41	32	20	11	5	4	28	34	
616,519	4.331	31	25	22	17	12	8	5	28	29	
616,440	4.308	37	29	25	18	12	8	5	27	33	
616,361	4.346	36	28	24	18	12	7	5	28	34	
616,277	4.239	94	81	72	47	33	19	10	27	33	
616,199	4.290	69	54	42	31	20	13	9	27	33	
616,120	4.344	31	24	20	15	9	7	5	27	33	
616,040	4.378	12	10	10	9	7	6	5	27	33	
615,959	4.354	35	28	26	21	16	12	9	27	33	km 615 = 1080m
615,882	4.317	13	11	10	9	8	7	6	27	34	
615,800	4.338	15	13	13	12	11	10	8	28	32	
615,720	4.313	28	21	18	14	11	8	7	28	31	
615,642	4.295	29	21	19	16	13	11	8	28	32	
615,560	4.313	24	20	17	14	11	8	7	27	33	
615,481	4.327	19	15	14	11	9	7	5	28	34	
615,400	4.324	9	7	7	6	6	5	4	28	33	
615,319	4.329	26	20	17	13	9	7	6	27	34	
615,240	4.326	10	9	8	8	7	6	5	28	34	
615,160	4.315	13	11	11	9	8	6	5	28	34	
615,079	4.303	18	15	14	11	8	6	5	29	35	
615,001	4.311	13	11	10	9	8	7	5	28	33	
615,000	4.346	11	9	8	7	6	5	4	28	33	km 614 = 1080m
614,920	4.324	14	12	10	9	7	6	4	29	34	
614,839	4.290	24	19	16	12	8	6	4	29	34	
614,760	4.294	19	16	14	11	8	6	5	29	34	
614,679	4.292	20	16	15	11	8	5	3	29	34	
614,599	4.303	15	12	11	9	7	5	4	28	34	
614,523	4.297	19	16	14	12	9	7	5	28	34	
614,442	4.305	28	20	18	11	7	5	4	28	35	
614,360	4.308	15	13	11	9	7	5	5	28	35	
614,281	4.292	24	22	21	17	14	10	6	29	35	
614,198	4.294	23	17	14	11	8	6	4	28	36	
614,119	4.326	30	25	22	18	13	9	7	29	35	
614,040	4.299	23	18	16	13	10	8	6	28	36	
613,960	4.346	11	9	8	7	6	5	4	28	36	km 613 = 1120m
613,959	4.310	12	9	9	8	7	6	5	27	35	
613,880	4.337	5	4	4	3	2	2	1	28	35	
613,799	4.292	25	23	21	18	15	11	8	29	35	
613,720	4.317	20	17	15	13	10	8	6	28	35	
613,640	4.234	58	41	34	25	17	11	8	28	35	
613,560	4.276	23	17	15	11	7	5	4	28	35	
613,480	4.337	19	14	12	10	7	5	4	29	35	
613,399	4.298	25	19	16	12	8	5	3	28	34	
613,319	4.317	20	16	14	10	7	5	4	28	35	
613,238	4.296	28	24	21	17	13	9	7	28	35	
613,162	4.395	30	24	20	15	10	6	3	29	36	
613,080	4.292	25	23	21	18	15	11	8	28	35	início de ponte km 613,085
612,919	4.384	48	34	25	16	10	6	5	28	34	km 612 = 1270m
612,840	4.260	88	72	62	46	29	19	13	28	36	final de ponte km 612,993
612,680	4.319	62	42	31	21	14	10	7	27	36	início de ponte km 612,760
612,600	4.290	76	49	33	21	14	11	9	28	36	final de ponte km 612,705
612,519	4.307	35	25	21	15	9	6	4	28	37	
612,439	4.317	37	30	26	19	9	6	4	28	37	
612,358	4.287	43	33	27	19	10	6	4	28	37	
612,280	4.327	11	9	8	7	6	5	3	28	37	
612,200	4.292	29	23	20	15	10	7	5	28	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773,4 ao km 597,0				DATA: fev/2007	
PISTA:	Multivia / Decrescente				FAIXA:	2					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
612,118	4.296	23	19	16	12	8	6	5	27	37	
612,040	4.303	28	23	19	14	9	6	5	28	37	
611,959	4.276	38	27	20	12	7	5	4	28	36	
611,880	4.311	24	18	15	11	8	5	3	28	37	
611,800	4.280	47	33	27	19	12	9	6	28	37	
611,960	4.169	92	77	62	44	23	16	9	29	36	
611,960	4.202	88	74	61	43	22	15	9	29	36	km 611 = 1000m
611,880	4.138	101	83	62	43	25	15	10	29	34	
611,799	4.188	42	39	30	22	15	10	7	29	37	
611,719	4.201	65	54	45	29	15	9	5	28	35	
611,639	4.208	68	49	39	25	14	7	4	29	35	
611,558	4.138	132	107	88	63	35	21	12	29	36	
611,477	4.253	41	33	28	22	15	9	5	28	38	
611,399	4.237	23	18	16	12	8	5	3	29	38	
611,319	4.226	41	35	31	25	18	13	8	28	38	
611,236	4.242	45	34	28	18	11	6	4	28	39	
611,160	4.258	43	31	24	15	8	4	2	29	38	
611,079	4.218	54	40	32	21	12	7	3	29	38	
610,999	4.222	56	40	32	21	11	5	3	29	38	
611,079	4.235	50	38	31	21	12	7	3	29	37	km 610 = 1100m
610,999	4.237	44	33	27	18	10	5	3	28	39	
610,920	4.179	81	59	47	32	22	15	10	29	38	
610,837	4.229	45	34	29	21	14	9	6	29	37	
610,760	4.206	35	27	23	17	12	8	6	28	36	
610,678	4.220	81	65	52	31	18	11	7	29	36	
610,600	4.276	47	34	26	16	10	7	5	29	37	
610,520	4.244	40	30	26	19	12	8	6	29	37	
610,439	4.217	47	39	34	27	20	15	11	29	38	
610,360	4.235	37	28	23	16	10	7	5	28	38	
610,281	4.224	40	31	24	18	12	8	6	29	37	
610,199	4.192	61	48	41	31	22	15	11	29	36	
610,118	4.244	54	43	37	28	18	11	8	29	37	
610,039	4.233	59	45	34	17	9	6	4	29	36	
609,959	4.201	59	36	27	17	9	5	4	29	37	km 609 = 1000m
609,879	4.230	55	41	34	25	16	10	6	29	37	
609,719	4.289	67	48	36	23	14	9	7	29	37	início de ponte km 609,823
609,638	4.224	62	45	35	22	12	8	5	28	37	final de ponte km 609,761
609,560	4.188	75	56	45	30	13	6	2	29	36	
609,480	4.241	44	32	26	17	10	6	5	29	37	
609,399	4.201	62	47	39	27	17	9	6	29	37	
609,320	4.174	99	74	57	38	20	11	6	29	36	
609,240	4.239	115	90	70	42	25	15	9	29	36	
609,161	4.307	41	28	20	11	6	4	2	28	37	
609,078	4.267	50	36	29	21	15	11	8	29	36	início de ponte km 608,938
609,003	4.271	21	16	15	12	10	8	6	29	36	
608,840	4.255	50	33	23	12	4	1	1	29	37	final de ponte km 608,928
608,919	4.323	60	43	32	19	8	3	1	29	37	km 608 = 1163m
608,842	4.226	123	97	81	58	34	19	11	28	38	
608,761	4.233	43	32	26	18	11	7	5	29	36	
608,680	4.265	36	25	19	12	6	3	2	29	37	
608,599	4.253	68	47	33	18	7	2	1	29	37	início de ponte km 608,544
608,360	4.201	73	56	47	33	21	13	8	29	37	
608,277	4.235	58	43	34	23	13	7	5	28	37	final de ponte km 608,433
608,200	4.192	60	49	43	33	23	14	8	29	38	
608,119	4.138	112	93	78	58	39	26	16	29	34	
608,037	4.122	130	102	82	56	33	17	7	29	34	
607,960	4.391	26	23	21	17	12	8	5	73	30	km 607 = 1000m
607,880	4.383	11	9	8	6	5	4	3	20	30	
607,800	4.315	71	56	45	31	20	13	8	20	30	
607,720	4.364	75	59	49	36	25	16	11	20	30	
607,640	4.304	102	74	55	29	14	7	4	73	30	
607,560	4.345	45	35	30	22	16	10	7	13	30	
607,480	4.334	11	8	7	6	5	4	3	13	28	
607,399	4.356	15	11	9	6	4	3	2	20	30	
607,320	4.354	17	13	11	8	6	4	3	20	31	
607,240	4.358	18	13	11	9	6	4	3	20	33	
607,160	4.369	15	10	8	6	4	3	2	20	33	
607,080	4.376	17	11	10	7	5	4	3	6	33	
607,001	4.363	53	41	33	22	12	7	4	13	31	
606,920	4.374	41	30	24	16	10	6	3	13	32	km 606 = 1000m
606,840	4.386	45	32	26	18	11	7	5	73	29	
606,760	4.361	57	41	33	22	15	10	8	73	29	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773,4 ao km 597,0				DATA: fev/2007					
PISTA: Multivia / Decrescente		FAIXA: 2									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
606,681	4.366	41	33	28	21	15	10	7	13	30	
606,602	4.363	44	35	30	22	15	10	7	20	31	
606,520	4.321	71	56	45	31	21	14	10	73	30	
606,441	4.376	66	49	40	26	17	12	8	13	30	
606,358	4.317	56	38	30	20	12	8	5	66	31	
606,281	4.361	55	42	34	20	12	7	5	20	31	
606,201	4.342	48	37	30	20	12	7	5	73	29	
606,120	4.282	69	56	44	28	16	8	6	13	29	
606,039	4.347	43	32	26	17	10	6	5	20	30	
605,959	4.352	29	22	19	14	9	6	4	20	28	km 605 = 1000m
605,880	4.331	31	23	19	14	9	6	4	73	28	
605,799	4.327	44	33	26	17	11	7	5	13	29	
605,720	4.325	23	18	16	12	8	6	4	13	30	
605,637	4.332	40	30	24	17	10	7	5	20	30	
605,561	4.371	30	23	19	14	9	7	5	20	29	
605,481	4.344	15	14	13	11	9	8	6	73	29	
605,401	4.385	35	27	23	17	12	8	6	20	29	
605,322	4.318	45	32	27	20	14	9	7	73	27	
605,240	4.334	94	65	46	30	17	9	6	20	29	
605,160	4.350	34	27	23	17	12	9	7	73	30	
605,081	4.323	19	17	16	14	12	10	8	73	29	
605,001	4.345	32	24	20	15	11	8	6	20	30	
604,921	4.333	34	26	23	18	12	8	5	20	30	km 604 = 1000m
604,841	4.298	75	50	39	19	11	8	6	20	29	
604,761	4.360	40	31	26	19	13	9	7	66	29	
604,680	4.321	72	63	53	36	20	11	6	73	29	
604,601	4.359	52	41	35	26	17	12	9	73	31	
604,521	4.325	66	54	43	29	17	11	7	73	30	
604,440	4.320	80	61	46	26	15	10	7	20	29	
604,362	4.334	74	59	44	24	15	8	5	73	30	
604,281	4.383	37	29	25	19	13	9	6	13	30	
604,199	4.364	45	37	31	22	14	9	6	20	30	
604,121	4.327	38	28	23	15	9	5	3	20	31	
604,039	4.304	49	36	31	23	15	11	8	20	30	
603,960	4.293	47	39	35	28	21	15	10	20	31	km 603 = 1000m
603,881	4.294	39	30	25	17	11	7	5	13	30	
603,801	4.336	32	25	21	16	11	7	5	20	26	
603,719	4.309	42	30	25	18	11	8	6	13	30	
603,638	4.329	39	27	22	15	10	7	5	13	29	
603,559	4.323	46	37	30	21	12	6	5	20	29	
603,481	4.359	13	10	10	9	7	6	5	20	28	
603,399	4.348	5	4	4	3	3	3	2	73	27	
603,319	4.370	9	7	7	6	5	5	4	20	30	
603,241	4.381	15	13	12	9	7	4	3	13	30	
603,160	4.336	17	13	11	9	7	5	5	20	30	
603,081	4.364	13	11	10	8	7	5	4	20	27	
603,001	4.350	7	5	5	4	3	3	2	73	28	
602,921	4.338	20	16	13	10	7	5	3	73	29	km 602 = 1000m
602,839	4.294	90	66	55	42	30	19	12	13	30	
602,760	4.393	14	12	11	10	8	7	6	13	27	
602,681	4.362	37	28	24	18	12	7	5	20	31	
602,601	4.295	66	46	35	21	13	9	7	73	30	
602,519	4.356	22	14	12	8	5	3	2	20	30	
602,442	4.373	18	12	10	7	5	3	2	73	28	
602,361	4.381	14	10	8	6	4	3	2	13	27	
602,281	4.360	19	16	14	11	8	6	4	73	33	
602,197	4.329	10	8	7	6	5	4	3	20	32	
602,120	4.381	50	36	27	17	8	4	3	20	29	
602,041	4.375	14	12	11	10	7	6	4	20	33	
601,959	4.391	26	23	21	17	12	8	5	73	32	km 601 = 1000m
601,881	4.383	11	9	8	6	5	4	3	20	32	
601,803	4.315	71	56	45	31	20	13	8	20	32	
601,719	4.364	75	59	49	36	25	16	11	20	34	
601,642	4.304	102	74	55	29	14	7	4	73	30	
601,561	4.345	45	35	30	22	16	10	7	13	33	
601,480	4.334	11	8	7	6	5	4	3	13	28	
601,399	4.356	15	11	9	6	4	3	2	20	30	
601,320	4.354	17	13	11	8	6	4	3	20	31	
601,240	4.358	18	13	11	9	6	4	3	20	33	
601,160	4.369	15	10	8	6	4	3	2	20	33	
601,079	4.376	17	11	10	7	5	4	3	6	33	
601,001	4.358	30	27	20	15	10	7	5	20	32	

Pesquisas e Estudos de Viabilidade de PPP – Sistema Rodoviário Federal Minas Gerais
PROJETO BR 040

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD

RODOVIA:	BR-040 / MG	TRECHO:		km 773 ao km 0		DATA: fev/2007					
PISTA:	Decrescente	FAIXA:		Adicional							
SENTIDO:	MG/DF	ENSAIO:		a cada 80 m							
km	Força	Deflexões (0,01 mm)							Temp.	Temp.	OBS
	(kgf)	D0	D20	D30	D45	D60	D90	D120	Ar (°C)	Pav. (°C)	
550,880	4.498	65	43	30	17	8	5	3	33	36	início = km 551,200
550,800	4.559	39	30	26	20	15	11	8	33	37	
550,719	4.518	22	16	14	11	8	6	4	32	40	
550,639	4.547	20	14	12	10	8	6	4	32	42	
550,561	4.530	17	12	10	8	7	5	4	31	36	
550,480	4.560	21	15	12	9	7	5	3	32	40	
550,398	4.533	21	15	12	9	6	4	3	32	39	
550,319	4.543	23	17	14	11	9	6	5	33	40	
550,239	4.610	18	12	10	7	5	3	2	33	43	
550,161	4.538	14	9	7	5	4	3	2	33	43	
550,081	4.551	13	9	7	6	4	3	3	32	42	
550,000	4.518	16	10	8	6	4	2	1	33	44	
549,921	4.472	27	17	12	6	3	2	1	33	42	
549,840	4.486	26	16	12	7	4	3	2	33	42	
549,760	4.449	41	26	17	9	5	3	2	32	42	
549,682	4.453	39	23	15	7	4	2	1	32	41	
549,600	4.465	35	26	20	14	9	5	3	32	41	
549,521	4.511	33	23	18	11	6	3	2	32	42	
549,439	4.502	24	16	12	7	4	2	2	32	41	
548,959	4.486	39	27	20	11	5	4	3	31	40	
548,881	4.481	49	35	29	21	14	9	6	32	39	
548,802	4.529	54	43	36	27	18	11	7	32	39	
548,721	4.551	28	21	17	13	9	7	5	31	41	
548,640	4.558	20	15	13	10	7	5	4	31	42	
548,559	4.513	20	14	11	7	4	3	2	32	42	
548,479	4.511	61	35	20	8	2	1	1	32	39	
548,479	4.512	56	33	20	8	2	1	1	32	39	
548,398	4.458	44	27	18	8	2	1	1	32	40	
548,319	4.440	54	33	20	8	2	1	1	31	39	
548,240	4.506	32	20	13	6	3	1	0	31	40	
548,159	4.485	29	18	12	7	4	3	2	32	40	
548,080	4.499	62	42	30	17	7	2	1	32	40	
548,001	4.415	78	55	41	24	11	5	2	31	39	
547,919	4.442	66	49	37	22	12	7	4	31	38	
547,841	4.449	61	42	30	17	8	4	2	32	39	
547,760	4.393	65	44	29	15	7	3	2	32	39	
547,681	4.472	27	17	12	6	3	2	1	32	38	
547,603	4.486	26	16	12	7	4	3	2	31	39	
547,519	4.449	41	26	17	9	5	3	2	31	41	
547,440	4.453	39	23	15	7	4	2	1	31	39	
547,358	4.458	45	30	21	10	5	3	2	32	40	
547,279	4.466	41	28	20	11	5	2	1	32	41	
547,198	4.381	103	77	57	36	19	11	6	33	38	
547,121	4.502	39	29	23	16	10	6	4	32	39	
547,040	4.489	22	14	11	6	3	2	1	32	35	
546,957	4.469	31	20	14	8	4	2	1	33	38	
546,879	4.409	67	43	27	15	7	3	2	31	38	
546,959	4.470	29	21	17	12	7	5	3	31	37	
546,878	4.463	47	33	25	15	8	4	3	31	39	
546,799	4.465	35	26	20	14	9	5	3	31	38	
546,639	4.511	33	23	18	11	6	3	2	32	37	
546,560	4.512	56	33	20	8	2	2	1	31	39	
546,481	4.458	44	27	18	8	2	2	1	31	40	
546,400	4.440	54	33	20	8	2	2	1	31	39	
546,321	4.506	32	20	13	6	3	2	1	31	40	
546,240	4.485	29	18	12	7	4	3	2	31	40	
546,160	4.499	62	42	30	17	7	2	2	32	40	
546,080	4.449	41	26	17	9	5	3	2	32	41	
546,000	4.459	54	35	27	18	11	7	4	31	36	
545,919	4.492	28	20	15	10	5	2	1	31	36	
545,839	4.405	73	46	31	11	7	3	2	31	36	
545,759	4.445	66	46	31	17	7	2	1	31	36	
545,680	4.425	68	47	35	20	10	5	3	31	36	
545,602	4.477	42	29	21	12	6	3	2	31	37	
545,039	4.408	94	70	51	32	15	7	4	31	36	
544,959	4.373	130	103	86	61	36	19	10	31	38	
544,880	4.481	49	38	32	24	16	10	5	32	39	
544,799	4.420	82	63	47	30	17	8	4	32	38	
544,719	4.489	32	20	15	10	6	4	3	31	39	
544,640	4.486	58	39	27	14	7	4	3	31	37	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773 ao km 0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Adicional					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
544,559	4.438	59	41	30	17	8	5	3	31	37	
544,480	4.432	58	39	24	11	5	3	2	31	38	
544,400	4.436	50	36	27	17	9	5	3	32	38	
544,317	4.405	57	41	33	21	12	6	3	32	39	
544,241	4.479	53	38	29	15	7	4	2	31	37	final = km 544,427
462,479	3.598	78	70	60	50	37	22	14	24	26	inicio = km 462,666
462,398	3.612	83	71	51	38	23	14	10	24	26	
462,321	3.677	37	31	27	22	16	11	8	24	26	
462,239	3.490	130	107	81	61	36	21	13	24	26	
462,161	3.713	22	16	14	11	8	5	4	24	26	
462,080	3.663	37	28	23	17	12	7	5	24	26	
462,000	3.648	40	33	28	23	17	11	8	24	26	
461,840	3.663	56	48	41	32	23	14	10	24	26	
461,760	3.482	91	70	54	43	29	17	10	24	27	
461,680	3.699	22	19	16	14	11	7	6	24	27	
461,602	3.663	38	27	20	15	9	5	3	24	27	
461,521	3.655	39	30	21	15	7	4	2	24	27	
461,442	3.684	42	36	29	21	12	7	4	24	27	
461,361	3.389	160	136	100	69	35	16	9	24	28	
461,280	3.619	70	60	47	33	18	9	5	25	28	
461,201	3.526	108	92	75	54	33	18	13	25	28	
461,120	3.612	55	37	30	24	17	11	8	25	28	
461,041	3.605	71	59	48	35	22	12	8	25	28	
460,961	3.454	164	143	108	75	42	24	15	25	29	
460,960	3.562	98	87	71	58	37	22	14	25	29	
460,882	3.648	28	28	25	21	16	12	9	25	29	
460,802	3.562	85	67	54	33	20	11	9	25	29	
460,722	3.627	68	54	30	20	13	9	7	25	29	
460,642	3.547	114	96	64	37	15	9	8	25	30	
460,561	3.591	96	67	40	25	13	7	8	28	29	
460,482	3.663	40	32	26	20	12	7	4	28	29	
460,399	3.598	88	62	44	29	15	8	6	28	30	
460,320	3.497	130	98	58	43	27	13	6	28	29	
460,240	3.641	96	75	42	27	14	8	5	28	29	final = km 460,180
459,360	3.663	10	9	8	7	6	5	4	28	30	inicio = km 459,440
459,279	3.677	19	17	14	12	9	7	6	28	29	
459,198	3.655	49	40	32	25	16	10	8	28	30	
459,117	3.612	97	56	41	30	18	12	8	28	29	
459,039	3.663	40	31	24	18	10	7	5	28	30	
458,800	3.576	83	47	39	30	19	11	8	28	30	
458,720	3.684	18	17	16	13	10	7	5	28	30	
458,641	3.677	19	19	18	16	14	11	9	28	30	
458,560	3.619	54	50	44	30	19	11	6	28	30	
458,480	3.360	103	82	59	44	24	11	6	28	30	
458,400	3.619	50	39	29	23	14	8	4	28	30	final = km 458,230
438,757	4.353	14	12	11	10	9	8	6	25	29	inicio = km 438,720
438,679	4.358	20	15	13	11	8	6	5	25	29	
438,597	4.358	21	16	14	11	9	7	5	25	29	
438,518	4.333	19	14	14	11	10	8	6	25	29	
438,439	4.319	19	16	15	13	11	9	6	25	29	
438,358	4.305	22	16	15	13	10	8	6	25	29	
438,278	4.317	22	18	17	14	12	9	7	25	29	
438,201	4.310	21	17	16	14	12	10	8	25	29	
438,119	4.261	39	29	26	20	14	10	7	25	29	
438,038	4.305	21	16	15	13	10	8	6	25	29	
437,958	4.323	21	17	16	14	11	8	6	25	29	km 437 = 1000m
437,879	4.305	20	15	13	10	8	6	5	25	29	
437,799	4.317	22	18	17	14	12	9	7	25	29	
437,718	4.348	51	37	30	21	14	10	7	25	29	
437,638	4.329	62	50	36	24	15	10	7	25	29	
437,558	4.376	53	39	30	20	13	9	6	25	29	
437,478	4.358	20	15	13	10	8	6	4	25	29	
437,398	4.333	39	29	24	17	11	8	5	25	29	
437,319	4.337	22	16	14	11	8	6	5	25	29	
437,240	4.344	37	32	22	16	12	8	6	25	29	final = km 437,200

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773 ao km 0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Adicional					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
423,910	4.266	50	42	38	30	23	17	12	30	37	inicio = km 423,920
423,830	4.265	42	32	28	22	16	13	10	30	37	
423,750	4.287	46	38	34	26	20	14	10	30	38	
423,670	4.300	40	32	27	21	15	12	9	30	38	
423,590	4.340	30	22	20	16	12	10	7	30	38	
423,510	4.310	27	21	18	14	10	8	6	30	38	
423,430	4.352	23	17	15	12	9	7	6	30	39	
423,350	4.350	20	15	13	11	8	7	6	30	38	final = km 423,360
332,400	4.259	67	45	36	25	17	11	7	32	38	inicio = km 332,400
332,319	4.336	74	48	38	26	16	10	5	31	36	
332,240	4.272	38	22	17	13	9	7	5	31	39	
332,161	4.298	37	24	19	14	10	7	5	32	39	
332,080	4.266	35	22	18	13	10	8	6	31	39	km 332 tem 706 m
331,997	4.274	54	26	17	11	7	5	4	31	39	
331,919	4.253	63	43	34	24	17	11	8	31	38	
331,842	4.243	108	76	61	45	29	19	12	31	38	
331,761	4.245	102	74	60	43	28	18	11	31	38	
331,681	4.295	55	37	28	19	13	9	6	32	39	
331,601	4.252	45	31	25	19	14	10	8	31	39	
331,519	4.272	50	30	21	14	10	7	5	32	39	
331,440	4.290	60	40	31	23	16	12	9	31	38	
331,360	4.296	61	37	27	18	11	7	5	31	39	
331,279	4.305	62	38	31	23	16	11	7	31	38	
331,198	4.311	58	39	30	21	14	9	6	32	38	
331,119	4.329	65	45	34	24	16	11	8	32	37	
331,040	4.239	92	62	51	37	25	16	11	31	39	km 331 tem 1000 m
330,961	4.320	41	26	22	16	12	9	6	31	35	
330,881	4.355	29	16	12	8	5	4	3	32	36	
330,801	4.334	48	31	25	19	14	11	8	32	36	
330,720	4.347	47	30	23	16	11	7	5	32	38	
330,641	4.344	61	43	32	22	15	10	7	31	35	
330,560	4.309	73	52	42	30	20	13	8	30	36	
330,482	4.314	51	33	25	18	13	9	6	30	36	
330,399	4.298	55	37	29	21	14	10	7	30	33	
330,321	4.291	69	48	37	25	16	9	4	29	36	
330,239	4.318	48	31	23	15	10	7	5	30	37	
330,160	4.216	108	71	54	40	29	22	15	30	35	
330,082	4.284	55	36	27	20	14	10	7	29	35	
330,001	4.317	63	49	41	31	24	18	13	30	36	km 330 tem 1000 m
329,919	4.321	33	23	17	12	9	7	5	30	38	
329,839	4.292	56	36	30	23	18	14	10	29	38	
329,759	4.275	55	39	32	25	18	14	10	29	38	
329,679	4.287	78	58	48	37	27	19	13	29	38	
329,601	4.332	63	40	30	22	15	11	7	29	39	
329,520	4.235	101	75	61	44	30	19	12	30	38	
329,440	4.298	50	29	22	16	12	9	7	30	39	
329,358	4.307	42	23	17	11	7	4	3	30	39	
329,277	4.313	57	36	26	18	12	8	6	30	39	
329,197	4.248	74	50	39	28	19	13	9	29	39	
329,121	4.286	59	38	30	22	16	11	8	29	39	
329,040	4.307	65	45	35	26	18	13	9	29	39	km 329 tem 1000 m
328,960	4.208	97	75	62	48	36	26	18	29	39	
328,878	4.289	43	29	21	14	9	6	5	28	36	
328,799	4.253	78	55	43	30	20	13	9	29	39	
328,718	4.266	53	38	30	22	16	12	9	28	39	
328,640	4.311	48	33	23	15	10	8	6	28	38	
328,558	4.279	47	31	21	13	9	7	6	28	39	
328,477	4.340	45	34	26	18	13	10	8	28	38	
328,398	4.300	85	62	49	35	23	17	12	28	37	
328,319	4.253	84	62	52	39	28	20	14	27	38	
328,240	4.264	58	35	26	17	12	9	7	27	38	
328,160	4.289	50	30	21	14	9	7	5	28	37	fim = km 328,160
299,760	4.255	40	24	17	12	8	6	5	27	33	inicio = km 299,760
299,680	4.280	66	40	29	18	12	9	7	28	31	
299,600	4.281	90	62	48	32	20	13	9	29	30	
299,520	4.291	48	30	24	17	12	9	7	30	33	fim = km 299,520

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773 ao km 0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Adicional					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
295,920	4.264	43	28	22	14	9	6	5	27	31	inicio = km 296,000
295,840	4.179	155	110	85	56	34	20	11	27	31	
295,760	4.325	99	60	39	23	12	7	3	27	31	
295,680	4.278	102	74	53	32	18	9	5	28	31	
295,600	4.367	58	31	21	14	10	8	6	28	31	
295,520	4.169	55	38	21	16	8	7	6	27	31	
295,440	4.337	98	56	38	23	12	7	3	27	31	
295,360	4.267	71	41	33	22	8	7	5	28	31	
295,280	4.349	57	34	22	14	10	8	6	28	31	
295,200	4.256	91	72	51	32	18	9	5	28	31	fim = km 295,161
294,400	4.281	65	40	27	16	9	6	5	33	46	inicio = km 294,440
294,320	4.277	78	46	31	18	10	7	5	32	46	
294,240	4.273	55	36	26	16	10	7	5	32	43	
294,161	4.297	48	33	24	15	9	6	4	32	44	
294,080	4.249	60	39	29	17	10	7	5	33	46	
294,000	4.247	42	24	19	13	9	7	5	32	42	fim = km 294,000
293,200	4.240	67	44	33	21	14	11	8	32	50	inicio = km 293,280
293,119	4.193	132	95	75	53	34	22	14	33	47	
293,039	4.225	104	73	57	41	27	19	12	32	48	
292,960	4.197	113	72	50	30	17	12	8	32	49	
292,881	4.230	93	57	39	22	11	7	5	32	49	
292,799	4.196	86	62	51	38	27	20	14	32	49	
292,719	4.225	89	57	40	25	14	8	5	33	48	
292,640	4.180	117	78	58	38	22	12	6	32	49	
292,560	4.282	50	32	24	16	11	9	7	32	52	
292,479	4.257	64	40	28	17	10	7	5	32	50	
292,399	4.171	103	70	52	35	23	16	11	33	51	
292,319	4.269	67	42	30	19	12	8	5	33	50	
292,240	4.268	60	37	25	15	8	6	4	32	50	
292,158	4.311	39	19	13	7	4	3	2	32	40	
292,080	4.263	36	20	14	8	4	3	2	32	45	
291,999	4.250	42	23	14	8	5	4	3	32	50	km 292 tem 1000
291,919	4.300	37	20	13	7	4	3	2	33	50	
291,840	4.299	50	26	16	8	4	3	2	32	48	
291,760	4.252	21	12	8	5	4	3	3	32	50	
291,679	4.274	51	26	16	9	5	4	3	32	49	fim = km 291,640
289,601	4.183	132	82	55	27	9	5	4	32	41	inicio = km 289,600
289,519	4.241	97	54	35	17	8	5	4	32	41	
289,440	4.253	92	62	44	26	14	9	6	33	41	
289,360	4.253	83	55	39	23	12	7	5	32	42	
289,280	4.226	76	51	38	24	14	9	6	32	42	
289,200	4.165	180	118	78	40	15	9	7	32	41	
289,120	4.183	107	73	56	38	23	14	8	32	40	
289,040	4.224	106	70	48	27	11	5	3	32	41	fim = km 288,990
288,000	4.294	56	38	29	19	10	6	4	31	41	
287,918	4.298	43	28	21	14	9	7	5	32	42	
287,840	4.237	46	23	14	8	5	4	3	32	45	
287,760	4.313	36	18	10	6	4	3	2	32	44	
287,680	4.284	47	25	16	9	5	4	3	31	41	
287,040	4.241	110	39	17	11	8	6	4	32	44	
286,959	4.280	59	31	18	11	7	6	5	32	42	
286,878	4.315	57	30	18	9	6	4	4	32	46	
286,800	4.298	61	23	11	6	4	3	3	31	44	
286,721	4.302	42	22	14	8	5	4	3	32	47	
286,640	4.272	34	22	12	7	4	4	3	32	46	
286,557	4.243	42	23	15	9	7	5	4	32	48	
286,480	4.305	47	27	17	9	5	4	3	32	44	
269,917	3.876	166	93	76	48	30	19	12	24	27	inicio = km 269,960
269,838	4.053	135	68	49	25	9	2	0	24	27	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773 ao km 0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Adicional					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
269,758	3,950	148	80	58	34	16	6	1	24	27	
269,679	4,039	91	51	44	29	18	12	8	24	27	
269,600	3,859	181	94	73	45	21	11	6	24	27	
269,509	3,702	215	99	94	56	30	19	9	24	27	
269,440	3,999	112	68	59	37	21	13	8	24	27	
269,360	3,968	122	74	59	36	18	10	5	24	27	
269,279	4,010	106	66	50	30	15	9	5	24	27	
269,200	4,024	72	46	39	24	13	8	5	24	27	
269,120	3,894	110	67	54	32	17	9	6	25	27	
269,038	4,019	81	50	42	26	13	8	6	24	27	km-269 tem 1000 m
268,959	4,004	98	54	44	26	13	8	6	25	30	
268,880	3,955	122	70	61	43	25	15	9	25	30	
268,800	4,043	59	32	27	19	13	9	6	25	30	
268,719	4,019	91	48	35	19	10	5	3	25	30	
268,640	3,960	96	54	44	28	18	12	7	25	30	
268,558	3,934	109	72	51	33	19	11	6	26	30	
268,476	4,021	86	44	35	21	11	6	3	26	30	
268,398	3,950	97	47	38	24	14	9	5	26	30	
268,319	4,015	83	49	42	25	14	8	5	26	30	
268,240	3,920	114	64	56	36	20	12	8	26	30	
268,156	3,967	90	49	41	24	15	8	5	26	30	
268,079	3,941	119	66	54	34	19	11	7	26	30	km-268 tem 1000 m
267,999	4,026	84	47	38	21	12	7	5	26	30	
267,920	4,022	98	49	38	23	12	6	3	26	30	
267,840	3,965	98	55	47	31	18	10	6	25	30	
267,758	3,975	101	59	48	31	20	14	8	26	30	
267,679	4,042	93	52	44	29	17	10	7	26	30	
267,599	3,927	122	71	62	41	23	13	7	26	30	
267,520	3,992	75	37	29	18	10	6	4	26	30	
267,438	3,992	91	55	45	29	17	10	6	26	30	final = km 267,400
252,600	4,026	56	33	30	21	13	8	6	25	30	
252,520	3,932	130	67	54	33	19	12	7	24	30	
252,433	3,830	204	127	106	69	36	18	10	25	30	
252,358	4,047	72	42	30	18	11	8	5	24	30	
252,200	3,920	118	70	65	47	30	20	12	24	30	
247,120	4,049	72	44	36	21	12	8	5	25	30	inicio = km 247,240
247,040	4,073	76	44	39	26	14	9	6	25	30	km-247 tem 902 m
246,960	3,985	113	75	72	51	32	20	11	25	30	
246,880	3,803	163	100	99	72	44	26	15	25	30	
246,798	4,035	52	34	34	26	18	13	8	26	30	
246,718	3,961	100	63	60	43	28	18	11	25	30	
246,640	3,999	70	44	43	31	21	14	9	26	30	
246,559	3,952	135	76	63	43	24	15	10	26	30	
246,480	3,943	103	55	53	39	23	15	9	26	30	
246,401	4,019	81	50	44	32	19	12	8	26	30	
246,320	3,985	80	50	48	33	21	13	8	26	30	
246,240	4,022	64	34	31	21	14	10	6	26	30	
246,160	3,946	92	50	45	31	18	11	6	26	30	
246,080	3,892	164	54	39	18	6	2	1	26	30	
246,000	3,974	73	39	32	20	11	7	4	26	30	km-246 tem 960 m
245,911	3,664	139	62	46	27	10	3	9	27	33	
245,838	4,047	55	32	29	19	10	5	3	27	33	
245,757	4,093	73	41	34	18	9	4	2	27	33	
245,677	4,094	67	36	30	17	8	4	3	27	33	
245,600	3,970	117	71	59	35	17	9	5	27	33	
245,516	4,012	123	67	52	28	15	8	4	27	33	
245,440	3,946	135	57	36	17	7	4	2	27	33	
245,360	3,952	85	43	38	23	12	8	5	27	33	
245,280	3,874	130	75	73	52	32	20	11	27	33	
245,200	3,896	138	80	75	52	31	19	11	27	33	
245,120	3,953	115	67	60	39	22	13	8	27	33	
245,040	3,975	105	60	52	34	20	11	8	27	33	km-245 tem 870 m
244,960	4,007	92	51	45	30	18	11	7	27	33	
244,879	4,061	69	35	29	19	11	7	4	27	33	
244,800	3,896	132	68	63	42	25	16	9	28	33	
244,719	3,968	123	58	27	15	10	7	5	28	33	
244,640	3,941	104	51	41	25	15	9	6	28	33	
244,560	3,827	104	64	49	35	17	10	8	28	33	

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773 ao km 0				DATA: fev/2007					
PISTA: Decrescente		FAIXA: Adicional									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
244,480	4.007	69	35	31	20	13	9	7	28	33	
244,399	4.046	62	33	30	20	10	9	7	28	33	
244,320	3.916	128	59	55	37	22	14	10	28	33	
244,240	3.743	104	55	49	33	22	15	10	28	33	
244,158	3.906	105	61	60	41	23	14	8	29	33	
243,999	3.961	79	46	42	29	18	13	9	29	33	km-244 tem 1000 m
243,918	4.019	86	44	36	22	12	9	6	28	33	
243,837	3.995	110	55	47	28	15	11	7	29	33	
243,757	4.064	55	29	22	12	8	6	5	29	33	
243,680	4.056	70	34	23	9	4	3	2	28	33	
243,599	4.066	48	26	22	13	7	5	3	28	33	
243,517	3.881	201	79	54	33	20	13	10	28	33	final = km 243,480
235,920	4.081	31	16	14	9	6	4	3	32	48	inicio = km 235,920
235,841	4.045	53	24	20	14	9	7	5	33	48	
235,760	3.980	64	33	30	19	12	8	5	33	48	
235,680	3.987	60	27	24	15	9	6	4	33	48	
235,600	4.002	47	20	16	10	6	5	3	33	48	
235,520	4.016	71	31	26	15	8	5	4	33	48	
235,440	4.002	61	28	23	14	7	5	3	33	48	
235,360	4.002	57	26	22	13	7	5	3	33	48	
235,280	3.980	75	34	28	17	9	6	4	33	48	
235,200	4.023	43	23	19	12	7	5	3	33	48	
235,120	3.987	58	27	25	16	10	7	4	33	48	
235,040	4.023	53	28	23	12	6	4	3	33	48	
234,959	3.987	58	34	31	19	11	6	4	33	48	
234,879	4.002	59	27	22	13	7	5	3	32	48	final = km 234,840
213,990	4.146	52	31	25	18	10	8	6	23	42	inicio = km 213,990
213,920	4.124	83	43	33	19	11	9	6	24	42	
213,841	4.045	126	71	60	37	21	13	9	24	42	
213,760	4.160	50	26	20	11	5	4	3	24	42	
213,677	4.066	113	65	46	24	13	8	5	24	42	
213,599	4.088	106	55	41	20	11	8	6	24	42	
213,520	4.088	70	44	39	26	16	11	7	24	42	
213,440	4.052	95	48	39	23	13	9	6	24	42	
213,360	4.139	35	19	15	9	6	5	3	24	42	
213,279	4.139	54	29	21	11	5	3	3	24	42	
213,197	4.088	44	23	18	9	4	3	2	24	42	
213,120	4.160	50	25	18	8	4	3	3	24	42	
213,039	4.117	32	18	15	11	8	6	4	24	42	
212,960	4.146	32	20	18	13	9	6	4	24	42	
212,880	4.146	41	22	17	10	7	5	4	25	42	
212,799	4.139	39	20	15	9	6	5	4	24	42	
212,720	4.117	62	32	24	13	6	4	3	25	42	
212,640	4.153	40	22	17	9	4	2	2	24	42	final = km 212,640
203,840	4.095	62	29	22	11	5	4	3	25	42	inicio = km 203,880
203,760	4.124	53	40	34	18	8	4	3	25	42	
203,681	4.045	173	50	6	4	6	6	4	25	42	
203,599	4.139	55	32	28	18	10	6	3	25	42	
203,520	4.131	68	39	32	15	7	5	3	26	42	
203,440	4.124	37	18	14	7	4	2	2	26	42	
203,360	4.131	32	19	16	10	6	3	2	26	42	
203,279	4.102	133	19	10	5	4	2	2	26	42	
203,199	4.153	28	16	13	7	4	3	2	26	42	final = km 203,175
193,760	3.627	18	12	9	7	5	4	3	32	33	inicio = km 193,760
193,679	3.641	13	10	9	8	6	4	3	32	33	
193,599	3.648	28	17	12	9	6	4	3	32	33	
193,518	3.641	24	19	15	10	6	3	2	32	33	
193,437	3.627	9	11	8	6	4	3	2	32	33	
193,359	3.627	12	11	8	6	4	3	2	32	33	
193,278	3.634	12	9	6	4	3	2	1	32	33	
193,199	3.619	27	22	17	13	8	5	4	32	33	
193,118	3.627	15	11	8	5	3	2	2	32	34	
193,040	3.648	19	15	10	7	4	3	2	32	33	
192,960	3.641	14	10	8	6	4	2	2	32	33	
192,879	3.634	24	19	14	10	6	3	2	32	33	
192,800	3.591	38	28	21	16	9	5	4	32	33	
192,720	3.634	29	26	20	15	9	5	4	32	33	final = km 192,640

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA:	BR-040 / MG				TRECHO:	km 773 ao km 0				DATA: fev/2007	
PISTA:	Decrescente				FAIXA:	Adicional					
SENTIDO:	MG/DF				ENSAIO:	a cada 80 m					
179,640	4.131	67	44	37	21	11	6	4	22	25	início = km 179,680
179,559	4.146	59	34	27	16	9	6	5	21	25	
179,480	4.074	75	42	31	19	13	9	6	21	25	
179,400	4.139	62	33	25	14	8	6	5	21	25	
179,321	4.160	62	35	25	14	6	4	3	21	25	
179,239	4.146	51	30	23	14	7	5	4	21	25	
179,159	4.139	55	32	26	16	8	5	3	22	25	
179,079	4.160	44	23	15	7	4	3	2	22	25	
179,000	4.189	31	16	10	6	3	3	2	22	25	
178,920	4.182	40	21	13	7	4	3	2	22	25	
178,840	4.167	47	24	15	9	5	3	2	22	25	
178,760	4.182	31	16	11	7	5	3	2	22	25	final = km 178,760
175,439	4.160	27	17	14	11	7	6	4	23	27	início = km 175,630
175,360	4.153	35	23	19	12	7	5	4	23	27	
175,279	4.146	41	25	20	13	7	5	4	23	27	
175,200	4.139	40	24	18	11	6	4	3	23	27	
175,120	4.153	27	15	11	7	4	4	3	23	27	
175,039	4.139	32	17	13	8	4	3	2	23	27	
174,959	4.124	41	24	20	13	7	4	3	23	27	
174,879	4.160	23	14	11	7	5	3	2	24	27	
174,799	4.160	42	23	17	9	4	3	2	23	27	
174,718	4.160	23	14	12	7	5	3	2	23	27	
174,640	4.182	23	12	8	5	3	2	2	23	27	
174,561	4.175	25	13	8	4	2	2	1	24	27	
174,481	4.189	29	16	12	6	2	1	1	23	27	
174,420	4.175	25	14	10	7	2	2	1	24	27	
174,340	4.131	41	19	13	6	2	2	1	23	27	
174,240	4.167	34	19	13	7	3	2	2	23	27	final = km 174,207
55,760	3.677	44	26	24	16	9	5	4	31	35	início = km 55,820
55,680	3.655	44	26	24	17	10	6	4	31	35	
55,598	3.670	51	27	23	14	8	6	4	31	35	
55,520	3.627	69	39	34	20	10	6	4	31	34	
55,439	3.670	47	27	25	16	8	5	3	31	34	
55,359	3.634	50	28	25	18	8	5	4	31	34	
55,280	3.706	46	26	23	15	8	6	4	31	35	
55,199	3.648	78	39	32	18	10	6	4	31	34	
55,118	3.677	45	29	28	20	12	8	5	31	34	
55,032	3.634	44	27	25	17	10	6	4	31	34	
54,959	3.641	51	31	29	18	10	6	3	31	34	
54,878	3.648	67	37	34	21	12	7	4	31	34	
54,798	3.605	110	53	40	22	11	7	4	31	34	
54,717	3.655	55	30	25	15	8	4	3	31	34	
54,640	3.670	53	32	30	19	10	5	2	31	34	
54,559	3.699	49	30	27	17	9	4	1	31	34	
54,479	3.663	51	33	30	20	8	3	1	31	34	final = km 54,469
50,560	3.706	45	28	27	20	11	7	5	31	33	início = km 50,610
50,479	3.641	76	45	46	35	23	14	8	31	33	
50,399	3.612	57	34	35	27	18	11	7	31	33	
50,319	3.591	83	52	51	34	21	11	5	31	33	
50,239	3.627	70	41	39	28	16	9	5	31	33	
50,157	3.648	66	39	38	27	16	10	5	31	33	
50,078	3.663	61	38	37	26	16	10	5	31	32	
49,997	3.526	106	60	54	35	18	12	6	31	32	
49,917	3.555	78	44	42	30	17	10	5	31	32	
49,837	3.699	43	24	21	14	8	5	3	31	32	
49,760	3.663	46	26	24	16	9	5	3	31	32	
49,680	3.663	47	27	25	18	12	7	4	31	32	
49,597	3.670	39	20	17	11	6	4	3	31	32	
49,519	3.655	43	23	21	14	9	6	4	31	32	
49,438	3.699	38	19	18	12	8	5	3	31	32	
49,357	3.692	51	27	23	14	8	5	4	31	32	
49,277	3.684	42	21	17	11	6	4	3	31	32	
49,200	3.713	27	15	13	7	4	2	1	31	32	final = km 49,165
43,950	4.023	13	11	10	8	7	4	4	31	35	início = km 44,050

LEVANTAMENTO DEFLECTOMÉTRICO COM EQUIPAMENTO FWD											
RODOVIA: BR-040 / MG		TRECHO: km 773 ao km 0						DATA: fev/2007			
PISTA: Decrescente		FAIXA: Adicional									
SENTIDO: MG/DF		ENSAIO: a cada 80 m									
43,879	4,030	12	10	9	8	7	5	4	31	34	
43,755	4,009	13	11	10	9	7	5	5	31	34	
43,678	3,994	8	5	5	4	4	3	3	31	34	
43,599	4,023	12	10	9	8	7	5	5	31	34	
43,518	4,009	8	6	6	5	5	4	3	31	34	
43,440	4,009	14	10	9	8	7	5	4	31	34	
43,360	4,016	12	8	8	7	6	4	4	31	34	
43,281	4,038	14	11	10	9	8	6	5	31	33	
43,199	4,038	17	14	13	12	10	7	7	31	33	
43,118	4,023	17	14	12	11	9	6	6	31	33	final = km 43,090
38,640	3,749	26	18	16	12	8	5	3	26	32	inicio = km 38,655
38,560	3,764	23	17	16	13	9	6	4	26	32	
38,480	3,785	20	14	12	9	6	3	2	26	32	
38,400	3,756	42	28	26	18	11	7	4	26	32	
38,320	3,771	22	17	16	12	8	6	4	26	32	
38,240	3,771	17	12	11	10	7	6	4	26	32	
38,160	3,764	25	17	16	13	9	7	5	27	32	
38,080	3,785	22	15	13	10	7	5	4	27	32	
38,000	3,792	18	14	13	10	7	4	3	27	32	
37,920	3,735	29	22	21	17	12	8	5	26	32	
37,840	3,720	39	28	27	21	14	9	6	27	32	
37,760	3,771	33	24	23	18	11	7	5	27	32	
37,680	3,648	71	47	43	32	20	12	8	27	32	
37,600	3,778	35	24	21	15	10	6	4	27	32	
37,520	3,742	51	34	31	22	15	10	7	26	32	
37,440	3,728	62	41	38	28	18	12	7	27	32	
37,360	3,692	31	23	23	20	14	10	6	27	32	
37,280	3,663	68	47	43	33	20	13	7	27	32	
37,200	3,720	17	12	12	11	7	5	4	27	32	
37,120	3,749	19	13	12	12	7	5	4	27	32	
37,040	3,728	22	15	14	11	8	6	4	27	32	
36,960	3,728	24	16	15	11	8	6	4	27	32	
36,880	3,792	26	16	15	11	7	5	3	27	32	
36,800	3,800	19	14	13	10	7	5	3	27	32	
36,720	3,785	23	16	15	11	7	4	2	27	32	
36,640	3,756	25	17	16	11	7	4	2	28	32	
36,560	3,785	28	20	19	15	10	6	3	27	32	
36,480	3,764	26	19	19	16	12	9	7	27	32	
36,400	3,749	25	19	18	14	10	7	4	27	32	
36,320	3,713	54	36	33	24	14	8	4	27	32	final = km 36,204
35,319	3,735	49	34	31	22	13	8	5	27	32	inicio = km 35,345
35,239	3,713	46	31	28	21	13	9	6	28	32	
35,200	3,692	47	32	30	21	13	8	5	27	32	
35,119	3,699	71	45	39	23	14	9	5	28	32	
35,038	3,699	44	31	28	20	13	9	6	27	32	
34,959	3,699	44	29	26	19	11	6	3	28	32	
34,879	3,771	22	16	15	11	7	4	2	27	32	
34,797	3,756	21	14	12	9	5	2	1	27	32	
34,720	3,728	31	22	19	14	9	5	2	27	32	
34,639	3,706	29	20	18	13	8	4	2	27	32	
34,559	3,720	24	16	15	10	6	3	2	27	32	
34,481	3,756	8	4	3	3	1	1	0	27	32	
34,400	3,749	19	12	10	6	3	1	1	27	32	
34,320	3,735	42	28	24	16	8	4	2	27	32	
34,240	3,749	19	13	12	9	6	4	2	27	32	
34,159	3,728	17	12	11	10	6	4	3	27	32	
34,079	3,742	25	17	15	11	7	5	3	27	32	
34,000	3,756	25	17	16	13	8	6	4	27	32	
33,920	3,764	24	15	13	10	6	3	2	27	32	
33,840	3,764	15	10	9	7	4	3	2	27	32	
33,780	3,749	26	18	16	12	7	5	2	27	32	
33,680	3,720	37	26	23	17	9	5	2	27	32	
33,599	3,756	37	25	21	14	7	5	2	27	32	
33,519	3,735	23	13	11	7	4	2	2	27	32	
33,438	3,749	26	18	16	11	7	4	3	27	32	
33,351	3,706	25	15	13	9	6	4	3	27	32	
33,280	3,742	32	22	19	15	8	4	3	27	32	
33,201	3,742	21	14	13	8	6	4	3	27	32	
33,120	3,728	23	16	14	9	6	4	3	27	32	
33,040	3,778	24	16	14	10	6	3	2	27	32	

[illegible]