

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 VII

Rev. A
Abril / 2007

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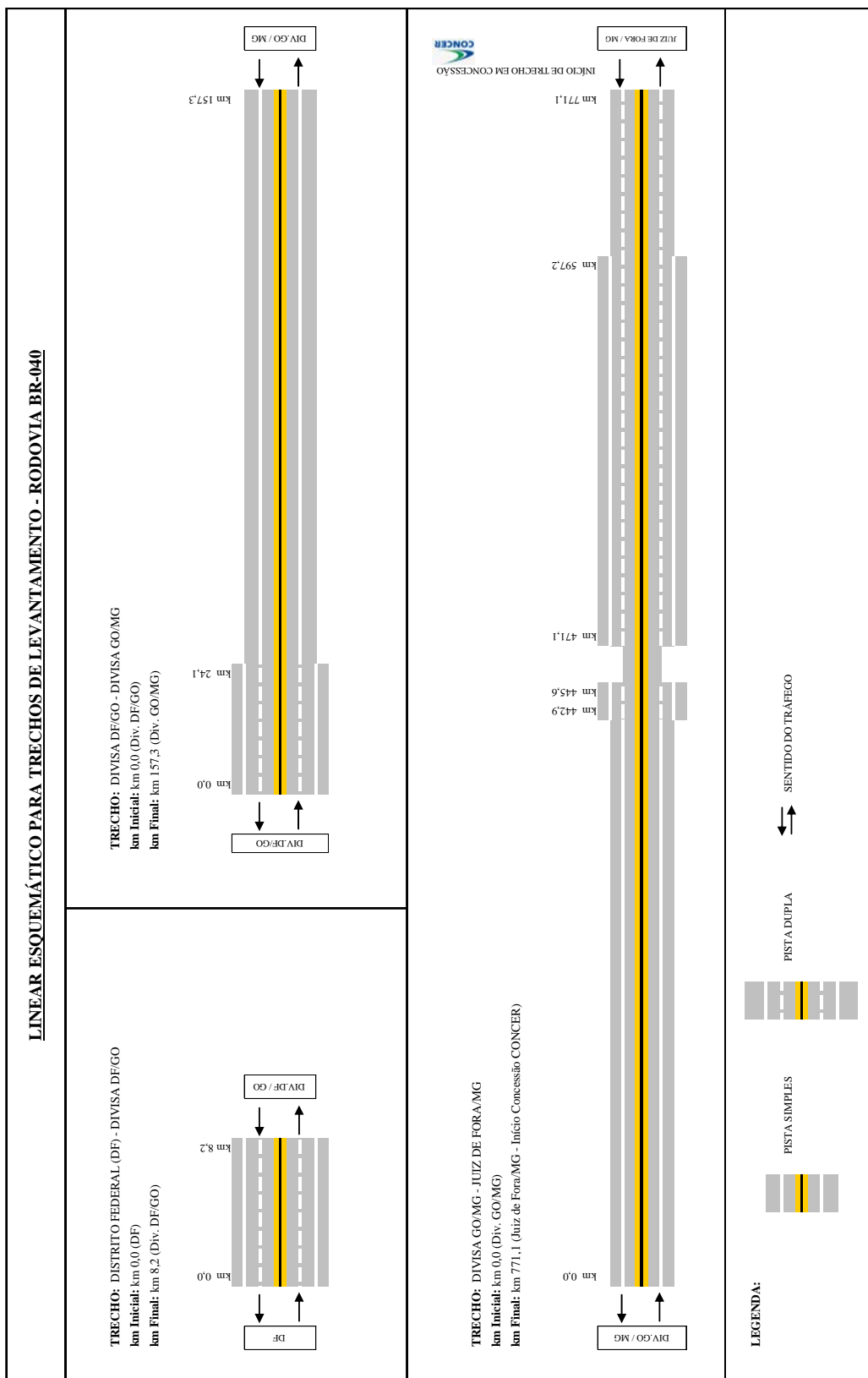
1. APRESENTAÇÃO

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.



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.

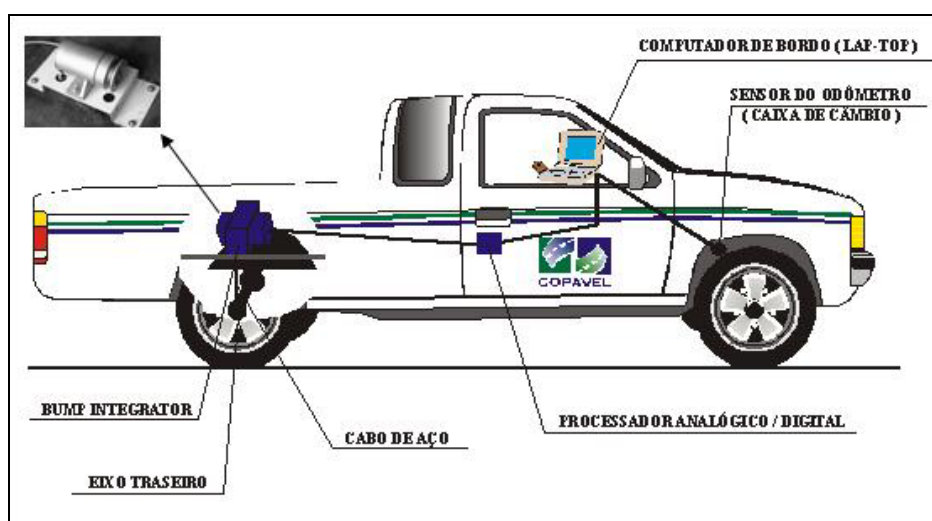


Figura 2.1. Veículo medidor de irregularidade.

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.

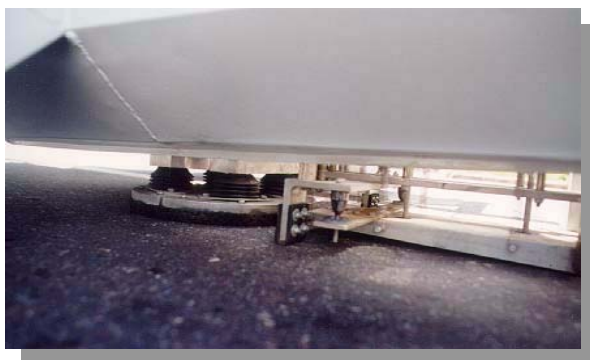


Figura 3.1. Vista de equipamento FWD modelo KUAB.

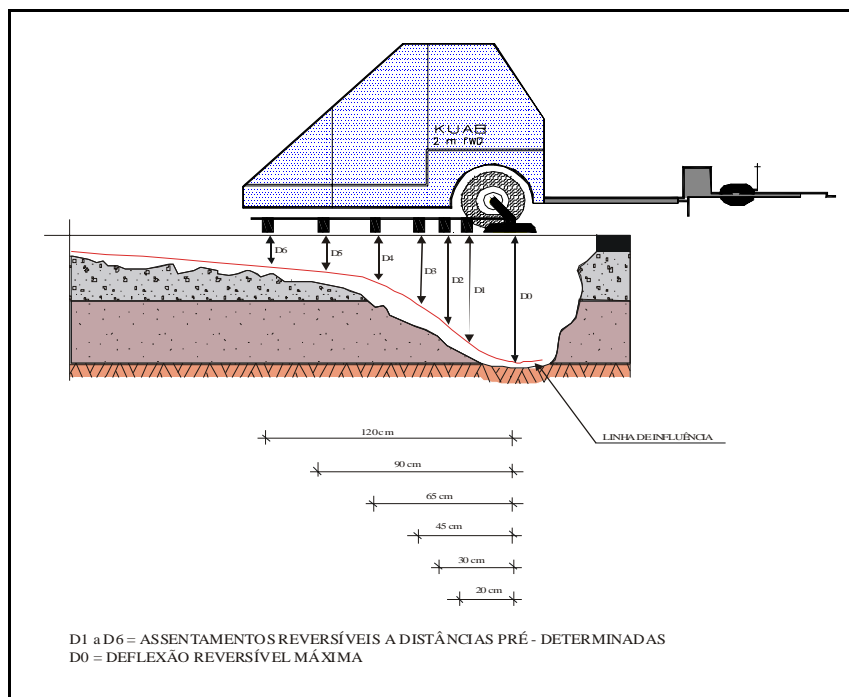


Figura 3.2. Exemplo de bacia de deflexões medida com o FWD.

ANEXO C - LEVANTAMENTO DA IRREGULARIDADE LONGITUDINAL

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

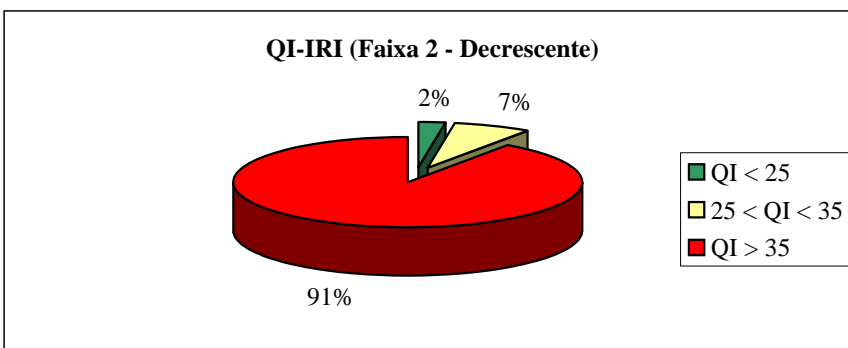
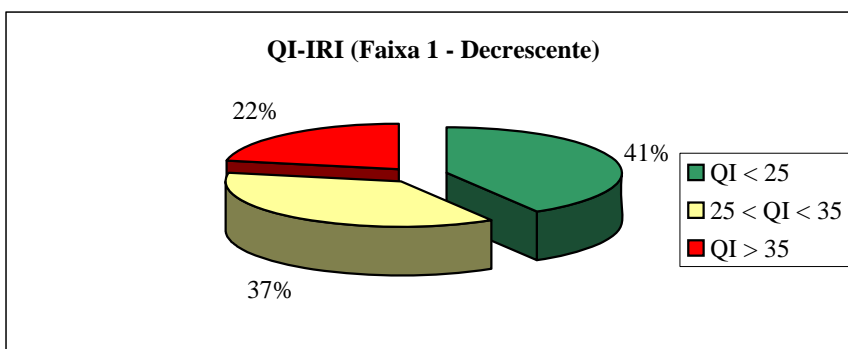
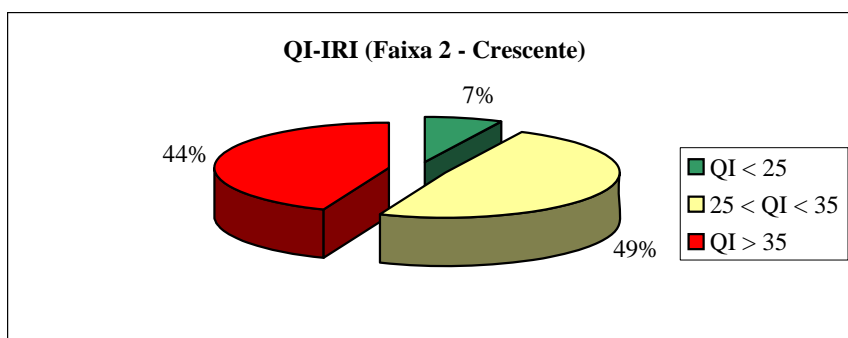
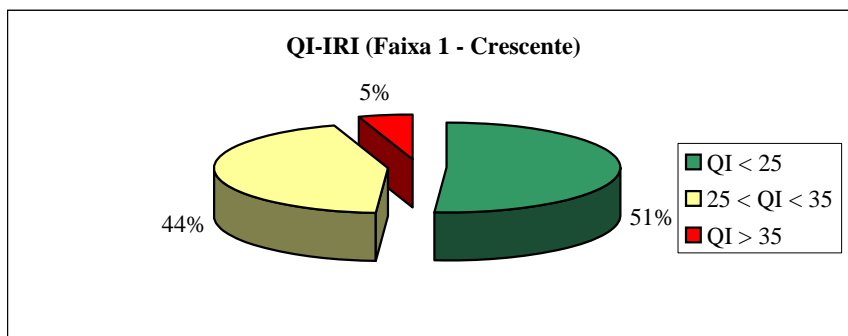
IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / DF			Dupla		Crescente / Faixa 1			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 8,200				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
0,000	0,200	50	30	2,32	7,600	7,800	80	25	1,91
0,200	0,400	50	32	2,44	7,800	8,000	80	28	2,13
0,400	0,600	50	36	2,79	8,000	8,200	80	21	1,63
0,600	0,800	50	32	2,44					
0,800	1,000	80	29	2,20					
1,000	1,200	80	23	1,76					
1,200	1,400	80	22	1,69					
1,400	1,600	80	25	1,91					
1,600	1,800	80	35	2,71					
1,800	2,000	80	24	1,83					
2,000	2,200	80	29	2,20					
2,200	2,400	50	32	2,50					
2,400	2,600	50	31	2,38					
2,600	2,800	50	23	1,80					
2,800	3,000	50	32	2,50					
3,000	3,200	80	32	2,49					
3,200	3,400	80	20	1,54					
3,400	3,600	80	20	1,54					
3,600	3,800	80	24	1,83					
3,800	4,000	80	23	1,76					
4,000	4,200	80	22	1,69					
4,200	4,400	80	21	1,61					
4,400	4,600	80	26	1,98					
4,600	4,800	80	32	2,49					
4,800	5,000	80	21	1,61					
5,000	5,200	80	24	1,83					
5,200	5,400	80	26	1,98					
5,400	5,600	80	27	2,05					
5,600	5,800	80	28	2,13					
5,800	6,000	80	29	2,20					
6,000	6,200	80	26	1,98					
6,200	6,400	80	24	1,83					
6,400	6,600	80	26	1,98					
6,600	6,800	80	22	1,69					
6,800	7,000	80	25	1,91					
7,000	7,200	80	20	1,54					
7,200	7,400	80	25	1,91					
7,400	7,600	80	22	1,69					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / DF			Dupla		Crescente / Faixa 2			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 8,200				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
0,000	0,200	50	31	2,38	7,600	7,800	80	33	2,57
0,200	0,400	50	35	2,67	7,800	8,000	80	31	2,42
0,400	0,600	50	36	2,79	8,000	8,200	80	18	1,36
0,600	0,800	50	36	2,79					
0,800	1,000	80	39	3,01					
1,000	1,200	80	41	3,15					
1,200	1,400	80	41	3,15					
1,400	1,600	80	34	2,64					
1,600	1,800	80	35	2,71					
1,800	2,000	80	31	2,35					
2,000	2,200	80	32	2,49					
2,200	2,400	80	40	3,08					
2,400	2,600	30	36	2,77					
2,600	2,800	50	22	1,68					
2,800	3,000	50	34	2,62					
3,000	3,200	80	38	2,93					
3,200	3,400	80	37	2,86					
3,400	3,600	80	42	3,23					
3,600	3,800	80	39	3,01					
3,800	4,000	80	31	2,42					
4,000	4,200	80	37	2,86					
4,200	4,400	80	31	2,35					
4,400	4,600	80	26	1,98					
4,600	4,800	80	27	2,05					
4,800	5,000	80	23	1,76					
5,000	5,200	80	43	3,30					
5,200	5,400	80	33	2,57					
5,400	5,600	80	29	2,20					
5,600	5,800	80	27	2,05					
5,800	6,000	80	31	2,35					
6,000	6,200	80	35	2,71					
6,200	6,400	80	28	2,13					
6,400	6,600	80	33	2,57					
6,600	6,800	80	29	2,20					
6,800	7,000	80	31	2,42					
7,000	7,200	80	32	2,49					
7,200	7,400	80	41	3,15					
7,400	7,600	80	31	2,35					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / DF			Dupla		Decrescente / Faixa 1			Abr./2007	
INÍCIO					FINAL				
km 8,200					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
8,200	8,000	80	20	1,54	0,600	0,400	50	36	2,73
8,000	7,800	80	19	1,47	0,400	0,200	80	55	4,25
7,800	7,600	80	28	2,13	0,200	0,000	80	47	3,59
7,600	7,400	80	22	1,69					
7,400	7,200	80	20	1,54					
7,200	7,000	80	27	2,05					
7,000	6,800	80	24	1,83					
6,800	6,600	80	23	1,76					
6,600	6,400	80	20	1,54					
6,400	6,200	80	21	1,61					
6,200	6,000	80	20	1,54					
6,000	5,800	80	25	1,91					
5,800	5,600	80	24	1,83					
5,600	5,400	80	26	1,98					
5,400	5,200	80	24	1,83					
5,200	5,000	80	20	1,54					
5,000	4,800	80	18	1,39					
4,800	4,600	80	19	1,47					
4,600	4,400	80	26	1,98					
4,400	4,200	80	23	1,76					
4,200	4,000	80	21	1,61					
4,000	3,800	80	29	2,20					
3,800	3,600	80	29	2,20					
3,600	3,400	80	27	2,05					
3,400	3,200	80	34	2,64					
3,200	3,000	80	38	2,93					
3,000	2,800	80	43	3,30					
2,800	2,600	50	39	3,02					
2,600	2,400	80	30	2,27					
2,400	2,200	80	30	2,27					
2,200	2,000	80	28	2,13					
2,000	1,800	80	29	2,20					
1,800	1,600	80	35	2,71					
1,600	1,400	80	32	2,49					
1,400	1,200	50	29	2,21					
1,200	1,000	80	30	2,27					
1,000	0,800	50	29	2,21					
0,800	0,600	50	45	3,43					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / DF			Dupla		Decrescente / Faixa 2			Abr./2007	
INÍCIO					FINAL				
km 8,200					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
8,200	8,000	50	25	1,92	0,600	0,400	50	57	4,42
8,000	7,800	50	29	2,27	0,400	0,200	80	45	3,45
7,800	7,600	80	25	1,91	0,200	0,000	80	45	3,45
7,600	7,400	80	45	3,45					
7,400	7,200	80	44	3,37					
7,200	7,000	80	47	3,59					
7,000	6,800	80	57	4,40					
6,800	6,600	80	39	3,01					
6,600	6,400	80	34	2,64					
6,400	6,200	80	69	5,28					
6,200	6,000	80	86	6,60					
6,000	5,800	80	82	6,31					
5,800	5,600	50	84	6,46					
5,600	5,400	50	54	4,19					
5,400	5,200	50	42	3,26					
5,200	5,000	50	51	3,95					
5,000	4,800	50	42	3,20					
4,800	4,600	80	35	2,71					
4,600	4,400	80	48	3,67					
4,400	4,200	80	51	3,96					
4,200	4,000	80	45	3,45					
4,000	3,800	50	42	3,20					
3,800	3,600	50	40	3,08					
3,600	3,400	50	34	2,62					
3,400	3,200	50	45	3,43					
3,200	3,000	50	52	4,01					
3,000	2,800	50	44	3,37					
2,800	2,600	30	40	3,04					
2,600	2,400	50	36	2,79					
2,400	2,200	50	44	3,37					
2,200	2,000	50	64	4,89					
2,000	1,800	50	78	5,99					
1,800	1,600	50	84	6,46					
1,600	1,400	50	81	6,23					
1,400	1,200	50	48	3,72					
1,200	1,000	50	38	2,91					
1,000	0,800	50	36	2,79					
0,800	0,600	50	46	3,55					

RESUMO ESTATÍSTICO DA IRREGULARIDADE LONGITUDINAL
RODOVIA BR-040 / DF (km 0,000 ao km 8,200)



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

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Crescente / Faixa 1			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
0,000	0,200	50	23	1,74	7,600	7,800	50	51	3,90
0,200	0,400	30	28	2,17	7,800	8,000	80	61	4,69
0,400	0,600	50	29	2,21	8,000	8,200	80	56	4,33
0,600	0,800	80	33	2,57	8,200	8,400	80	41	3,15
0,800	1,000	30	35	2,67	8,400	8,600	80	50	3,81
1,000	1,200	50	38	2,91	8,600	8,800	80	69	5,28
1,200	1,400	50	28	2,15	8,800	9,000	80	71	5,43
1,400	1,600	80	24	1,83	9,000	9,200	80	54	4,18
1,600	1,800	50	32	2,44	9,200	9,400	80	59	4,55
1,800	2,000	50	36	2,79	9,400	9,600	80	52	4,03
2,000	2,200	50	31	2,38	9,600	9,800	80	63	4,84
2,200	2,400	50	34	2,62	9,800	10,000	80	92	7,04
2,400	2,600	50	29	2,27	10,000	10,200	80	75	5,79
2,600	2,800	50	26	2,03	10,200	10,400	80	59	4,55
2,800	3,000	50	29	2,27	10,400	10,600	80	57	4,40
3,000	3,200	30	35	2,72	10,600	10,800	80	71	5,50
3,200	3,400	80	29	2,20	10,800	11,000	80	32	2,49
3,400	3,600	80	31	2,42	11,000	11,200	80	31	2,35
3,600	3,800	80	35	2,71	11,200	11,400	80	30	2,27
3,800	4,000	80	29	2,20	11,400	11,600	80	31	2,42
4,000	4,200	80	34	2,64	11,600	11,800	80	27	2,05
4,200	4,400	80	40	3,08	11,800	12,000	80	27	2,05
4,400	4,600	80	76	5,87	12,000	12,200	80	19	1,47
4,600	4,800	80	66	5,06	12,200	12,400	80	21	1,61
4,800	5,000	80	65	4,99	12,400	12,600	80	28	2,13
5,000	5,200	80	48	3,67	12,600	12,800	80	29	2,20
5,200	5,400	80	64	4,91	12,800	13,000	80	22	1,69
5,400	5,600	80	63	4,84	13,000	13,200	80	23	1,76
5,600	5,800	80	84	6,45	13,200	13,400	80	34	2,64
5,800	6,000	80	66	5,06	13,400	13,600	80	59	4,55
6,000	6,200	80	76	5,87	13,600	13,800	80	60	4,62
6,200	6,400	80	60	4,62	13,800	14,000	80	51	3,89
6,400	6,600	80	75	5,79	14,000	14,200	80	47	3,59
6,600	6,800	80	88	6,75	14,200	14,400	80	47	3,59
6,800	7,000	80	88	6,75	14,400	14,600	80	44	3,37
7,000	7,200	80	57	4,40	14,600	14,800	80	33	2,57
7,200	7,400	50	86	6,63	14,800	15,000	80	31	2,35
7,400	7,600	50	73	5,64	15,000	15,200	80	27	2,05

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Crescente / Faixa 1			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
15,200	15,400	80	29	2,20	22,800	23,000	80	22	1,69
15,400	15,600	80	31	2,42	23,000	23,200	80	24	1,83
15,600	15,800	80	23	1,76	23,200	23,400	80	27	2,05
15,800	16,000	80	24	1,83	23,400	23,600	80	33	2,57
16,000	16,200	80	25	1,91	23,600	23,800	50	34	2,62
16,200	16,400	80	29	2,20	23,800	24,000	30	38	2,95
16,400	16,600	80	31	2,35	24,000	24,200	80	25	1,91
16,600	16,800	80	31	2,42	24,200	24,400	80	27	2,05
16,800	17,000	80	31	2,35	24,400	24,600	80	22	1,69
17,000	17,200	80	41	3,15	24,600	24,800	80	23	1,76
17,200	17,400	80	33	2,57	24,800	25,000	80	33	2,57
17,400	17,600	80	30	2,27	25,000	25,200	80	20	1,54
17,600	17,800	80	20	1,54	25,200	25,400	80	19	1,47
17,800	18,000	80	24	1,83	25,400	25,600	80	24	1,83
18,000	18,200	80	22	1,69	25,600	25,800	80	24	1,83
18,200	18,400	80	24	1,83	25,800	26,000	80	29	2,20
18,400	18,600	80	24	1,83	26,000	26,200	80	16	1,25
18,600	18,800	80	23	1,76	26,200	26,400	80	22	1,69
18,800	19,000	80	31	2,35	26,400	26,600	80	22	1,69
19,000	19,200	80	28	2,13	26,600	26,800	80	28	2,13
19,200	19,400	80	31	2,35	26,800	27,000	80	27	2,05
19,400	19,600	80	29	2,20	27,000	27,200	80	22	1,69
19,600	19,800	80	27	2,05	27,200	27,400	80	19	1,47
19,800	20,000	80	31	2,42	27,400	27,600	80	27	2,05
20,000	20,200	80	31	2,42	27,600	27,800	80	24	1,83
20,200	20,400	80	27	2,05	27,800	28,000	80	31	2,35
20,400	20,600	80	26	1,98	28,000	28,200	80	24	1,83
20,600	20,800	80	29	2,20	28,200	28,400	80	20	1,54
20,800	21,000	80	31	2,35	28,400	28,600	80	22	1,69
21,000	21,200	80	25	1,91	28,600	28,800	80	26	1,98
21,200	21,400	80	28	2,13	28,800	29,000	80	21	1,61
21,400	21,600	80	31	2,42	29,000	29,200	80	25	1,91
21,600	21,800	80	24	1,83	29,200	29,400	80	20	1,54
21,800	22,000	80	26	1,98	29,400	29,600	80	19	1,47
22,000	22,200	80	27	2,05	29,600	29,800	80	31	2,35
22,200	22,400	80	27	2,05	29,800	30,000	80	20	1,54
22,400	22,600	80	28	2,13	30,000	30,200	80	23	1,76
22,600	22,800	80	28	2,13	30,200	30,400	80	22	1,69

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Crescente / Faixa 1			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
30,400	30,600	80	25	1,91	38,000	38,200	80	21	1,61
30,600	30,800	80	28	2,13	38,200	38,400	80	20	1,54
30,800	31,000	80	32	2,49	38,400	38,600	80	20	1,54
31,000	31,200	80	30	2,27	38,600	38,800	80	19	1,47
31,200	31,400	80	21	1,61	38,800	39,000	80	25	1,91
31,400	31,600	80	21	1,61	39,000	39,200	80	23	1,76
31,600	31,800	80	23	1,76	39,200	39,400	80	20	1,54
31,800	32,000	80	20	1,54	39,400	39,600	80	21	1,61
32,000	32,200	80	18	1,39	39,600	39,800	80	14	1,10
32,200	32,400	80	20	1,54	39,800	40,000	80	21	1,61
32,400	32,600	80	25	1,91	40,000	40,200	80	23	1,76
32,600	32,800	80	22	1,69	40,200	40,400	80	18	1,39
32,800	33,000	80	21	1,61	40,400	40,600	80	20	1,54
33,000	33,200	80	28	2,13	40,600	40,800	80	20	1,54
33,200	33,400	80	20	1,54	40,800	41,000	80	17	1,32
33,400	33,600	80	29	2,20	41,000	41,200	80	17	1,32
33,600	33,800	80	21	1,61	41,200	41,400	80	16	1,25
33,800	34,000	80	21	1,61	41,400	41,600	80	27	2,05
34,000	34,200	80	25	1,91	41,600	41,800	80	19	1,47
34,200	34,400	80	23	1,76	41,800	42,000	80	26	1,98
34,400	34,600	80	25	1,91	42,000	42,200	80	25	1,91
34,600	34,800	80	28	2,13	42,200	42,400	80	22	1,69
34,800	35,000	80	28	2,13	42,400	42,600	80	24	1,83
35,000	35,200	80	22	1,69	42,600	42,800	80	24	1,83
35,200	35,400	80	21	1,61	42,800	43,000	80	28	2,13
35,400	35,600	80	27	2,05	43,000	43,200	80	28	2,13
35,600	35,800	80	28	2,13	43,200	43,400	80	31	2,42
35,800	36,000	80	27	2,05	43,400	43,600	80	23	1,76
36,000	36,200	80	26	1,98	43,600	43,800	80	18	1,39
36,200	36,400	80	23	1,76	43,800	44,000	80	20	1,54
36,400	36,600	80	23	1,76	44,000	44,200	80	19	1,47
36,600	36,800	80	25	1,91	44,200	44,400	80	33	2,57
36,800	37,000	80	23	1,76	44,400	44,600	80	34	2,64
37,000	37,200	80	21	1,61	44,600	44,800	80	27	2,05
37,200	37,400	80	20	1,54	44,800	45,000	80	34	2,64
37,400	37,600	80	22	1,69	45,000	45,200	80	32	2,49
37,600	37,800	80	21	1,61	45,200	45,400	80	33	2,57
37,800	38,000	80	23	1,76	45,400	45,600	80	38	2,93

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Crescente / Faixa 1			Abr./2007	
INICIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
45,600	45,800	80	22	1,69	53,200	53,400	80	21	1,61
45,800	46,000	80	24	1,83	53,400	53,600	80	22	1,69
46,000	46,200	80	22	1,69	53,600	53,800	80	29	2,20
46,200	46,400	80	24	1,83	53,800	54,000	80	26	1,98
46,400	46,600	80	18	1,39	54,000	54,200	80	26	1,98
46,600	46,800	80	24	1,83	54,200	54,400	80	26	1,98
46,800	47,000	80	26	1,98	54,400	54,600	80	26	1,98
47,000	47,200	80	23	1,76	54,600	54,800	80	21	1,61
47,200	47,400	80	22	1,69	54,800	55,000	80	24	1,83
47,400	47,600	80	25	1,91	55,000	55,200	80	21	1,61
47,600	47,800	80	40	3,08	55,200	55,400	80	24	1,83
47,800	48,000	80	33	2,57	55,400	55,600	80	26	1,98
48,000	48,200	80	38	2,93	55,600	55,800	80	27	2,05
48,200	48,400	80	24	1,83	55,800	56,000	80	23	1,76
48,400	48,600	80	25	1,91	56,000	56,200	80	26	1,98
48,600	48,800	80	23	1,76	56,200	56,400	80	21	1,61
48,800	49,000	80	28	2,13	56,400	56,600	80	31	2,42
49,000	49,200	80	22	1,69	56,600	56,800	80	30	2,27
49,200	49,400	80	25	1,91	56,800	57,000	80	26	1,98
49,400	49,600	80	22	1,69	57,000	57,200	80	23	1,76
49,600	49,800	80	31	2,35	57,200	57,400	80	21	1,61
49,800	50,000	80	40	3,08	57,400	57,600	80	20	1,54
50,000	50,200	80	31	2,35	57,600	57,800	80	26	1,98
50,200	50,400	80	31	2,42	57,800	58,000	80	32	2,49
50,400	50,600	80	30	2,27	58,000	58,200	80	25	1,91
50,600	50,800	80	26	1,98	58,200	58,400	80	29	2,20
50,800	51,000	80	26	1,98	58,400	58,600	80	31	2,35
51,000	51,200	80	30	2,27	58,600	58,800	80	31	2,35
51,200	51,400	80	30	2,27	58,800	59,000	80	31	2,35
51,400	51,600	80	25	1,91	59,000	59,200	80	26	1,98
51,600	51,800	80	22	1,69	59,200	59,400	80	30	2,27
51,800	52,000	80	26	1,98	59,400	59,600	80	23	1,76
52,000	52,200	80	29	2,20	59,600	59,800	80	25	1,91
52,200	52,400	80	23	1,76	59,800	60,000	80	29	2,20
52,400	52,600	80	24	1,83	60,000	60,200	80	22	1,69
52,600	52,800	80	23	1,76	60,200	60,400	80	25	1,91
52,800	53,000	80	27	2,05	60,400	60,600	80	27	2,05
53,000	53,200	80	17	1,32	60,600	60,800	80	24	1,83

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Crescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
60,800	61,000	80	28	2,13	68,400	68,600	80	43	3,30
61,000	61,200	80	29	2,20	68,600	68,800	80	38	2,93
61,200	61,400	80	28	2,13	68,800	69,000	80	68	5,21
61,400	61,600	80	40	3,08	69,000	69,200	80	37	2,86
61,600	61,800	80	62	4,77	69,200	69,400	80	59	4,55
61,800	62,000	80	51	3,96	69,400	69,600	80	55	4,25
62,000	62,200	80	64	4,91	69,600	69,800	80	60	4,62
62,200	62,400	80	34	2,64	69,800	70,000	80	45	3,45
62,400	62,600	80	37	2,86	70,000	70,200	80	61	4,69
62,600	62,800	80	41	3,15	70,200	70,400	80	65	4,99
62,800	63,000	80	46	3,52	70,400	70,600	80	55	4,25
63,000	63,200	80	35	2,71	70,600	70,800	80	32	2,49
63,200	63,400	80	34	2,64	70,800	71,000	80	71	5,50
63,400	63,600	80	31	2,35	71,000	71,200	80	66	5,06
63,600	63,800	80	34	2,64	71,200	71,400	80	60	4,62
63,800	64,000	80	30	2,27	71,400	71,600	80	54	4,18
64,000	64,200	80	33	2,57	71,600	71,800	80	51	3,96
64,200	64,400	80	30	2,27	71,800	72,000	80	31	2,42
64,400	64,600	80	56	4,33	72,000	72,200	80	40	3,08
64,600	64,800	80	70	5,35	72,200	72,400	80	35	2,71
64,800	65,000	80	31	2,42	72,400	72,600	80	31	2,42
65,000	65,200	80	35	2,71	72,600	72,800	80	28	2,13
65,200	65,400	80	37	2,86	72,800	73,000	80	32	2,49
65,400	65,600	80	32	2,49	73,000	73,200	50	39	3,02
65,600	65,800	80	41	3,15	73,200	73,400	50	44	3,37
65,800	66,000	80	48	3,67	73,400	73,600	50	45	3,43
66,000	66,200	80	49	3,74	73,600	73,800	50	68	5,24
66,200	66,400	80	59	4,55	73,800	74,000	50	78	5,99
66,400	66,600	80	67	5,13	74,000	74,200	50	62	4,77
66,600	66,800	80	44	3,37	74,200	74,400	50	57	4,36
66,800	67,000	80	49	3,74	74,400	74,600	80	64	4,91
67,000	67,200	80	37	2,86	74,600	74,800	80	64	4,91
67,200	67,400	80	31	2,35	74,800	75,000	80	55	4,25
67,400	67,600	80	35	2,71	75,000	75,200	80	49	3,74
67,600	67,800	80	38	2,93	75,200	75,400	80	53	4,11
67,800	68,000	80	53	4,11	75,400	75,600	80	66	5,06
68,000	68,200	80	56	4,33	75,600	75,800	80	66	5,06
68,200	68,400	80	54	4,18	75,800	76,000	80	51	3,89

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Crescente / Faixa 1			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
76,000	76,200	80	30	2,27	83,600	83,800	80	70	5,35
76,200	76,400	80	30	2,27	83,800	84,000	80	43	3,30
76,400	76,600	80	38	2,93	84,000	84,200	80	44	3,37
76,600	76,800	80	32	2,49	84,200	84,400	80	51	3,89
76,800	77,000	80	31	2,42	84,400	84,600	80	41	3,15
77,000	77,200	80	27	2,05	84,600	84,800	80	67	5,13
77,200	77,400	80	34	2,64	84,800	85,000	80	48	3,67
77,400	77,600	80	27	2,05	85,000	85,200	80	50	3,81
77,600	77,800	80	25	1,91	85,200	85,400	80	51	3,96
77,800	78,000	80	31	2,35	85,400	85,600	80	63	4,84
78,000	78,200	80	25	1,91	85,600	85,800	80	69	5,28
78,200	78,400	80	31	2,42	85,800	86,000	80	54	4,18
78,400	78,600	80	33	2,57	86,000	86,200	80	67	5,13
78,600	78,800	80	34	2,64	86,200	86,400	80	65	4,99
78,800	79,000	80	32	2,49	86,400	86,600	80	69	5,28
79,000	79,200	80	29	2,20	86,600	86,800	80	69	5,28
79,200	79,400	80	46	3,52	86,800	87,000	50	61	4,65
79,400	79,600	80	44	3,37	87,000	87,200	50	70	5,41
79,600	79,800	80	45	3,45	87,200	87,400	50	70	5,35
79,800	80,000	80	57	4,40	87,400	87,600	50	81	6,23
80,000	80,200	80	52	4,03	87,600	87,800	50	79	6,11
80,200	80,400	80	59	4,55	87,800	88,000	50	75	5,76
80,400	80,600	80	47	3,59	88,000	88,200	50	66	5,06
80,600	80,800	80	54	4,18	88,200	88,400	50	64	4,94
80,800	81,000	80	57	4,40	88,400	88,600	50	69	5,29
81,000	81,200	80	52	4,03	88,600	88,800	50	48	3,66
81,200	81,400	80	76	5,87	88,800	89,000	50	46	3,55
81,400	81,600	80	73	5,65	89,000	89,200	50	48	3,66
81,600	81,800	80	58	4,47	89,200	89,400	50	44	3,37
81,800	82,000	80	64	4,91	89,400	89,600	50	45	3,43
82,000	82,200	80	59	4,55	89,600	89,800	80	36	2,79
82,200	82,400	80	57	4,40	89,800	90,000	80	34	2,64
82,400	82,600	80	60	4,62	90,000	90,200	80	36	2,79
82,600	82,800	80	44	3,37	90,200	90,400	80	30	2,27
82,800	83,000	80	44	3,37	90,400	90,600	80	29	2,20
83,000	83,200	50	48	3,66	90,600	90,800	80	35	2,71
83,200	83,400	50	64	4,89	90,800	91,000	80	37	2,86
83,400	83,600	50	57	4,36	91,000	91,200	50	36	2,73

IRREGULARIDADE LONGITUDINAL - QI										
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Crescente / Faixa 1			DATA Abr./2007		
INÍCIO km 0,000					FINAL km 153,700					
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI		Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
91,200	91,400	50	38	2,91		98,800	99,000	80	25	1,91
91,400	91,600	50	36	2,79		99,000	99,200	80	22	1,69
91,600	91,800	50	48	3,66		99,200	99,400	80	23	1,76
91,800	92,000	50	40	3,08		99,400	99,600	80	20	1,54
92,000	92,200	50	42	3,26		99,600	99,800	80	20	1,54
92,200	92,400	80	39	3,01		99,800	100,000	80	19	1,47
92,400	92,600	80	39	3,01		100,000	100,200	80	19	1,47
92,600	92,800	50	47	3,61		100,200	100,400	80	31	2,42
92,800	93,000	50	49	3,78		100,400	100,600	80	24	1,83
93,000	93,200	50	40	3,08		100,600	100,800	80	24	1,83
93,200	93,400	50	54	4,13		100,800	101,000	80	25	1,91
93,400	93,600	50	46	3,55		101,000	101,200	80	27	2,05
93,600	93,800	50	42	3,20		101,200	101,400	80	26	1,98
93,800	94,000	50	38	2,91		101,400	101,600	80	23	1,76
94,000	94,200	50	41	3,14		101,600	101,800	80	32	2,49
94,200	94,400	50	37	2,85		101,800	102,000	80	23	1,76
94,400	94,600	80	33	2,57		102,000	102,200	80	27	2,05
94,600	94,800	80	34	2,64		102,200	102,400	80	29	2,20
94,800	95,000	30	33	2,54		102,400	102,600	80	34	2,64
95,000	95,200	30	27	2,08		102,600	102,800	80	32	2,49
95,200	95,400	50	29	2,21		102,800	103,000	80	34	2,64
95,400	95,600	80	23	1,76		103,000	103,200	80	28	2,13
95,600	95,800	80	26	1,98		103,200	103,400	80	26	1,98
95,800	96,000	80	26	1,98		103,400	103,600	80	39	3,01
96,000	96,200	80	25	1,91		103,600	103,800	80	52	4,03
96,200	96,400	80	21	1,61		103,800	104,000	80	46	3,52
96,400	96,600	80	20	1,54		104,000	104,200	80	19	1,47
96,600	96,800	80	19	1,47		104,200	104,400	80	23	1,76
96,800	97,000	80	21	1,61		104,400	104,600	80	21	1,61
97,000	97,200	80	24	1,83		104,600	104,800	80	21	1,61
97,200	97,400	80	19	1,47		104,800	105,000	80	25	1,91
97,400	97,600	80	20	1,54		105,000	105,200	80	25	1,91
97,600	97,800	80	40	3,08		105,200	105,400	80	34	2,64
97,800	98,000	80	26	1,98		105,400	105,600	80	30	2,27
98,000	98,200	80	31	2,35		105,600	105,800	80	20	1,54
98,200	98,400	80	25	1,91		105,800	106,000	80	31	2,35
98,400	98,600	80	24	1,83		106,000	106,200	80	31	2,42
98,600	98,800	80	23	1,76		106,200	106,400	80	32	2,49

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Crescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
106,400	106,600	80	28	2,13	114,000	114,200	80	23	1,76
106,600	106,800	80	30	2,27	114,200	114,400	80	25	1,91
106,800	107,000	80	37	2,86	114,400	114,600	80	23	1,76
107,000	107,200	80	25	1,91	114,600	114,800	80	24	1,83
107,200	107,400	80	21	1,61	114,800	115,000	80	26	1,98
107,400	107,600	80	28	2,13	115,000	115,200	80	25	1,91
107,600	107,800	80	32	2,49	115,200	115,400	80	25	1,91
107,800	108,000	80	38	2,93	115,400	115,600	80	25	1,91
108,000	108,200	80	45	3,45	115,600	115,800	80	27	2,05
108,200	108,400	80	29	2,20	115,800	116,000	80	24	1,83
108,400	108,600	80	31	2,35	116,000	116,200	80	22	1,69
108,600	108,800	80	28	2,13	116,200	116,400	80	23	1,76
108,800	109,000	80	34	2,64	116,400	116,600	80	32	2,49
109,000	109,200	80	24	1,83	116,600	116,800	80	27	2,05
109,200	109,400	80	23	1,76	116,800	117,000	80	24	1,83
109,400	109,600	80	22	1,69	117,000	117,200	80	25	1,91
109,600	109,800	80	25	1,91	117,200	117,400	80	26	1,98
109,800	110,000	80	33	2,57	117,400	117,600	80	34	2,64
110,000	110,200	80	23	1,76	117,600	117,800	80	31	2,35
110,200	110,400	80	22	1,69	117,800	118,000	80	36	2,79
110,400	110,600	80	21	1,61	118,000	118,200	80	23	1,76
110,600	110,800	80	23	1,76	118,200	118,400	80	33	2,57
110,800	111,000	80	21	1,61	118,400	118,600	80	32	2,49
111,000	111,200	80	20	1,54	118,600	118,800	80	31	2,42
111,200	111,400	80	17	1,32	118,800	119,000	80	22	1,69
111,400	111,600	80	21	1,61	119,000	119,200	80	43	3,30
111,600	111,800	80	22	1,69	119,200	119,400	80	63	4,84
111,800	112,000	80	26	1,98	119,400	119,600	80	53	4,11
112,000	112,200	80	34	2,64	119,600	119,800	80	56	4,33
112,200	112,400	80	25	1,91	119,800	120,000	80	65	4,99
112,400	112,600	80	29	2,20	120,000	120,200	80	54	4,18
112,600	112,800	80	23	1,76	120,200	120,400	80	56	4,33
112,800	113,000	80	22	1,69	120,400	120,600	80	47	3,59
113,000	113,200	80	18	1,39	120,600	120,800	80	32	2,49
113,200	113,400	80	18	1,39	120,800	121,000	80	35	2,71
113,400	113,600	80	23	1,76	121,000	121,200	80	65	4,99
113,600	113,800	80	24	1,83	121,200	121,400	80	49	3,74
113,800	114,000	80	24	1,83	121,400	121,600	80	33	2,57

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Crescente / Faixa 1			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
121,600	121,800	80	38	2,93	129,200	129,400	80	61	4,69
121,800	122,000	80	41	3,15	129,400	129,600	80	68	5,21
122,000	122,200	80	47	3,59	129,600	129,800	80	42	3,23
122,200	122,400	80	32	2,49	129,800	130,000	80	46	3,52
122,400	122,600	80	40	3,08	130,000	130,200	80	64	4,91
122,600	122,800	80	53	4,11	130,200	130,400	80	56	4,33
122,800	123,000	80	39	3,01	130,400	130,600	80	55	4,25
123,000	123,200	80	42	3,23	130,600	130,800	80	48	3,67
123,200	123,400	80	34	2,64	130,800	131,000	80	53	4,11
123,400	123,600	80	50	3,81	131,000	131,200	80	81	6,23
123,600	123,800	80	38	2,93	131,200	131,400	80	73	5,65
123,800	124,000	80	35	2,71	131,400	131,600	80	51	3,89
124,000	124,200	80	49	3,74	131,600	131,800	80	55	4,25
124,200	124,400	80	53	4,11	131,800	132,000	80	29	2,20
124,400	124,600	80	71	5,43	132,000	132,200	80	44	3,37
124,600	124,800	80	54	4,18	132,200	132,400	80	44	3,37
124,800	125,000	80	64	4,91	132,400	132,600	80	38	2,93
125,000	125,200	80	79	6,09	132,600	132,800	80	44	3,37
125,200	125,400	80	76	5,87	132,800	133,000	80	28	2,13
125,400	125,600	80	70	5,35	133,000	133,200	80	30	2,27
125,600	125,800	80	57	4,40	133,200	133,400	80	34	2,64
125,800	126,000	80	50	3,81	133,400	133,600	80	52	4,03
126,000	126,200	80	36	2,79	133,600	133,800	80	23	1,76
126,200	126,400	80	49	3,74	133,800	134,000	80	28	2,13
126,400	126,600	80	71	5,50	134,000	134,200	80	44	3,37
126,600	126,800	80	58	4,47	134,200	134,400	80	49	3,74
126,800	127,000	80	60	4,62	134,400	134,600	80	45	3,45
127,000	127,200	80	52	4,03	134,600	134,800	80	45	3,45
127,200	127,400	80	32	2,49	134,800	135,000	80	40	3,08
127,400	127,600	80	57	4,40	135,000	135,200	80	34	2,64
127,600	127,800	80	48	3,67	135,200	135,400	80	41	3,15
127,800	128,000	80	57	4,40	135,400	135,600	80	36	2,79
128,000	128,200	80	48	3,67	135,600	135,800	80	37	2,86
128,200	128,400	80	50	3,81	135,800	136,000	80	36	2,79
128,400	128,600	80	54	4,18	136,000	136,200	80	42	3,23
128,600	128,800	80	26	1,98	136,200	136,400	80	43	3,30
128,800	129,000	80	46	3,52	136,400	136,600	80	44	3,37
129,000	129,200	80	55	4,25	136,600	136,800	80	43	3,30

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Crescente / Faixa 1			DATA Abr./2007	
INICIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
136,800	137,000	80	27	2,05	144,400	144,600	80	27	2,05
137,000	137,200	80	22	1,69	144,600	144,800	80	46	3,52
137,200	137,400	80	26	1,98	144,800	145,000	80	25	1,91
137,400	137,600	80	20	1,54	145,000	145,200	80	27	2,05
137,600	137,800	80	37	2,86	145,200	145,400	80	19	1,47
137,800	138,000	80	46	3,52	145,400	145,600	80	28	2,13
138,000	138,200	80	54	4,18	145,600	145,800	80	28	2,13
138,200	138,400	80	35	2,71	145,800	146,000	80	20	1,54
138,400	138,600	80	49	3,74	146,000	146,200	80	23	1,76
138,600	138,800	80	40	3,08	146,200	146,400	80	20	1,54
138,800	139,000	80	34	2,64	146,400	146,600	80	23	1,76
139,000	139,200	80	41	3,15	146,600	146,800	80	25	1,91
139,200	139,400	80	23	1,76	146,800	147,000	80	26	1,98
139,400	139,600	80	30	2,27	147,000	147,200	80	19	1,47
139,600	139,800	80	47	3,59	147,200	147,400	80	18	1,39
139,800	140,000	80	32	2,49	147,400	147,600	80	20	1,54
140,000	140,200	80	27	2,05	147,600	147,800	80	19	1,47
140,200	140,400	80	24	1,83	147,800	148,000	80	17	1,32
140,400	140,600	80	42	3,23	148,000	148,200	80	16	1,25
140,600	140,800	80	30	2,27	148,200	148,400	50	19	1,45
140,800	141,000	80	37	2,86	148,400	148,600	50	18	1,39
141,000	141,200	80	42	3,23	148,600	148,800	50	17	1,33
141,200	141,400	80	40	3,08	148,800	149,000	50	23	1,74
141,400	141,600	80	38	2,93	149,000	149,200	50	22	1,68
141,600	141,800	80	31	2,42	149,200	149,400	50	20	1,57
141,800	142,000	80	35	2,71	149,400	149,600	50	20	1,51
142,000	142,200	80	31	2,42	149,600	149,800	80	15	1,17
142,200	142,400	80	31	2,35	149,800	150,000	80	18	1,39
142,400	142,600	80	23	1,76	150,000	150,200	80	18	1,39
142,600	142,800	80	37	2,86	150,200	150,400	80	20	1,54
142,800	143,000	80	25	1,91	150,400	150,600	80	21	1,61
143,000	143,200	80	27	2,05	150,600	150,800	50	20	1,57
143,200	143,400	80	33	2,57	150,800	151,000	50	18	1,39
143,400	143,600	80	27	2,05	151,000	151,200	80	19	1,47
143,600	143,800	80	37	2,86	151,200	151,400	80	19	1,47
143,800	144,000	80	46	3,52	151,400	151,600	50	24	1,86
144,000	144,200	80	36	2,79	151,600	151,800	50	26	2,03
144,200	144,400	80	34	2,64	151,800	152,000	80	24	1,83

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

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Crescente / Faixa 2			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
0,000	0,200	50	47	3,61	7,600	7,800	80	51	3,89
0,200	0,400	30	54	4,19	7,800	8,000	80	71	5,50
0,400	0,600	50	51	3,90	8,000	8,200	80	69	5,28
0,600	0,800	50	45	3,43	8,200	8,400	80	80	6,16
0,800	1,000	30	50	3,82	8,400	8,600	80	87	6,67
1,000	1,200	50	57	4,36	8,600	8,800	80	109	8,36
1,200	1,400	50	51	3,95	8,800	9,000	80	85	6,53
1,400	1,600	50	61	4,65	9,000	9,200	80	92	7,11
1,600	1,800	50	86	6,63	9,200	9,400	80	60	4,62
1,800	2,000	50	85	6,52	9,400	9,600	80	66	5,06
2,000	2,200	50	56	4,30	9,600	9,800	80	84	6,45
2,200	2,400	50	33	2,56	9,800	10,000	80	84	6,45
2,400	2,600	50	40	3,08	10,000	10,200	80	92	7,04
2,600	2,800	50	34	2,62	10,200	10,400	80	62	4,77
2,800	3,000	50	26	1,97	10,400	10,600	80	77	5,94
3,000	3,200	30	49	3,73	10,600	10,800	80	69	5,28
3,200	3,400	50	39	2,96	10,800	11,000	80	44	3,37
3,400	3,600	80	71	5,50	11,000	11,200	80	31	2,35
3,600	3,800	80	49	3,74	11,200	11,400	80	33	2,57
3,800	4,000	80	46	3,52	11,400	11,600	80	35	2,71
4,000	4,200	80	40	3,08	11,600	11,800	80	32	2,49
4,200	4,400	80	50	3,81	11,800	12,000	80	36	2,79
4,400	4,600	80	57	4,40	12,000	12,200	80	36	2,79
4,600	4,800	80	60	4,62	12,200	12,400	80	28	2,13
4,800	5,000	80	90	6,89	12,400	12,600	80	33	2,57
5,000	5,200	80	37	2,86	12,600	12,800	80	27	2,05
5,200	5,400	80	48	3,67	12,800	13,000	80	21	1,61
5,400	5,600	80	68	5,21	13,000	13,200	80	28	2,13
5,600	5,800	80	62	4,77	13,200	13,400	80	28	2,13
5,800	6,000	80	63	4,84	13,400	13,600	80	73	5,65
6,000	6,200	80	68	5,21	13,600	13,800	80	71	5,50
6,200	6,400	80	47	3,59	13,800	14,000	80	48	3,67
6,400	6,600	80	56	4,33	14,000	14,200	80	56	4,33
6,600	6,800	80	56	4,33	14,200	14,400	80	58	4,47
6,800	7,000	80	56	4,33	14,400	14,600	80	43	3,30
7,000	7,200	80	51	3,89	14,600	14,800	80	34	2,64
7,200	7,400	50	43	3,31	14,800	15,000	80	31	2,42
7,400	7,600	30	46	3,55	15,000	15,200	80	23	1,76

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Crescente / Faixa 2			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
15,200	15,400	80	25	1,91	22,800	23,000	80	31	2,35
15,400	15,600	80	21	1,61	23,000	23,200	80	23	1,76
15,600	15,800	80	26	1,98	23,200	23,400	50	45	3,49
15,800	16,000	80	34	2,64	23,400	23,600	50	44	3,37
16,000	16,200	80	42	3,23	23,600	23,800	50	49	3,78
16,200	16,400	80	43	3,30	23,800	24,000	30	44	3,36
16,400	16,600	80	38	2,93	24,000	24,200	30	41	3,18
16,600	16,800	80	51	3,89	24,200	24,400	30	36	2,77
16,800	17,000	80	50	3,81	24,400	24,600	30	45	3,45
17,000	17,200	80	49	3,74	24,600	24,787	30	48	3,71
17,200	17,400	80	38	2,93					
17,400	17,600	80	51	3,89					
17,600	17,800	80	51	3,89					
17,800	18,000	80	51	3,96					
18,000	18,200	80	30	2,27					
18,200	18,400	80	30	2,27					
18,400	18,600	80	31	2,42					
18,600	18,800	80	30	2,27					
18,800	19,000	80	47	3,59					
19,000	19,200	80	66	5,06					
19,200	19,400	80	33	2,57					
19,400	19,600	80	32	2,49					
19,600	19,800	80	30	2,27					
19,800	20,000	80	42	3,23					
20,000	20,200	80	33	2,57					
20,200	20,400	80	26	1,98					
20,400	20,600	80	32	2,49					
20,600	20,800	80	51	3,96					
20,800	21,000	80	45	3,45					
21,000	21,200	80	54	4,18					
21,200	21,400	80	39	3,01					
21,400	21,600	80	54	4,18					
21,600	21,800	80	44	3,37					
21,800	22,000	80	32	2,49					
22,000	22,200	80	25	1,91					
22,200	22,400	80	31	2,35					
22,400	22,600	80	39	3,01					
22,600	22,800	80	42	3,23					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
157,300	157,200	50	28	2,15	149,800	149,600	80	27	2,05
157,200	157,000	50	26	2,00	149,600	149,400	80	33	2,57
157,000	156,800	50	34	2,62	149,400	149,200	80	25	1,91
156,800	156,600	50	28	2,15	149,200	149,000	80	21	1,61
156,600	156,400	80	30	2,27	149,000	148,800	80	18	1,39
156,400	156,200	80	42	3,23	148,800	148,600	80	18	1,39
156,200	156,000	80	25	1,91	148,600	148,400	80	16	1,25
156,000	155,800	80	21	1,61	148,400	148,200	80	19	1,47
155,800	155,600	80	25	1,91	148,200	148,000	80	21	1,61
155,600	155,400	80	21	1,61	148,000	147,800	80	23	1,76
155,400	155,200	80	18	1,39	147,800	147,600	80	20	1,54
155,200	155,000	80	17	1,32	147,600	147,400	80	18	1,39
155,000	154,800	80	20	1,54	147,400	147,200	80	27	2,05
154,800	154,600	80	19	1,47	147,200	147,000	80	27	2,05
154,600	154,400	80	24	1,83	147,000	146,800	80	27	2,05
154,400	154,200	80	21	1,61	146,800	146,600	80	22	1,69
154,200	154,000	80	27	2,05	146,600	146,400	80	15	1,17
154,000	153,800	80	26	1,98	146,400	146,200	80	17	1,32
153,800	153,600	80	25	1,91	146,200	146,000	80	17	1,32
153,600	153,400	80	24	1,83	146,000	145,800	80	20	1,54
153,400	153,200	80	26	1,98	145,800	145,600	80	18	1,39
153,200	153,000	80	23	1,76	145,600	145,400	80	21	1,61
153,000	152,800	80	23	1,76	145,400	145,200	80	19	1,47
152,800	152,600	80	26	1,98	145,200	145,000	80	25	1,91
152,600	152,400	80	46	3,52	145,000	144,800	80	19	1,47
152,400	152,200	80	24	1,83	144,800	144,600	80	16	1,25
152,200	152,000	80	24	1,83	144,600	144,400	80	25	1,91
152,000	151,800	80	24	1,83	144,400	144,200	80	38	2,93
151,800	151,600	80	23	1,76	144,200	144,000	80	24	1,83
151,600	151,400	80	24	1,83	144,000	143,800	80	21	1,61
151,400	151,200	80	21	1,61	143,800	143,600	80	24	1,83
151,200	151,000	80	19	1,47	143,600	143,400	80	23	1,76
151,000	150,800	80	19	1,47	143,400	143,200	80	22	1,69
150,800	150,600	80	19	1,47	143,200	143,000	80	34	2,64
150,600	150,400	80	19	1,47	143,000	142,800	80	31	2,42
150,400	150,200	80	31	2,42	142,800	142,600	80	38	2,93
150,200	150,000	80	25	1,91	142,600	142,400	80	45	3,45
150,000	149,800	80	24	1,83	142,400	142,200	80	42	3,23

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
142,200	142,000	80	36	2,79	134,600	134,400	80	53	4,11
142,000	141,800	80	37	2,86	134,400	134,200	80	47	3,59
141,800	141,600	80	29	2,20	134,200	134,000	80	54	4,18
141,600	141,400	80	31	2,35	134,000	133,800	80	59	4,55
141,400	141,200	80	29	2,20	133,800	133,600	80	51	3,89
141,200	141,000	80	27	2,05	133,600	133,400	80	43	3,30
141,000	140,800	80	33	2,57	133,400	133,200	80	50	3,81
140,800	140,600	80	31	2,42	133,200	133,000	80	59	4,55
140,600	140,400	80	40	3,08	133,000	132,800	80	72	5,57
140,400	140,200	80	43	3,30	132,800	132,600	80	34	2,64
140,200	140,000	80	51	3,96	132,600	132,400	80	44	3,37
140,000	139,800	80	37	2,86	132,400	132,200	80	45	3,45
139,800	139,600	80	33	2,57	132,200	132,000	80	51	3,89
139,600	139,400	80	43	3,30	132,000	131,800	80	61	4,69
139,400	139,200	80	41	3,15	131,800	131,600	80	69	5,28
139,200	139,000	80	35	2,71	131,600	131,400	80	82	6,31
139,000	138,800	80	55	4,25	131,400	131,200	80	34	2,64
138,800	138,600	80	40	3,08	131,200	131,000	80	33	2,57
138,600	138,400	80	51	3,96	131,000	130,800	80	42	3,23
138,400	138,200	80	40	3,08	130,800	130,600	80	47	3,59
138,200	138,000	80	34	2,64	130,600	130,400	80	33	2,57
138,000	137,800	80	27	2,05	130,400	130,200	80	50	3,81
137,800	137,600	80	29	2,20	130,200	130,000	80	50	3,81
137,600	137,400	80	33	2,57	130,000	129,800	80	47	3,59
137,400	137,200	80	33	2,57	129,800	129,600	80	70	5,35
137,200	137,000	80	46	3,52	129,600	129,400	80	57	4,40
137,000	136,800	80	54	4,18	129,400	129,200	80	27	2,05
136,800	136,600	80	45	3,45	129,200	129,000	80	32	2,49
136,600	136,400	80	59	4,55	129,000	128,800	80	42	3,23
136,400	136,200	80	43	3,30	128,800	128,600	80	46	3,52
136,200	136,000	80	45	3,45	128,600	128,400	80	42	3,23
136,000	135,800	80	35	2,71	128,400	128,200	80	57	4,40
135,800	135,600	80	30	2,27	128,200	128,000	80	34	2,64
135,600	135,400	80	28	2,13	128,000	127,800	80	55	4,25
135,400	135,200	80	39	3,01	127,800	127,600	80	44	3,37
135,200	135,000	80	42	3,23	127,600	127,400	80	54	4,18
135,000	134,800	80	52	4,03	127,400	127,200	80	48	3,67
134,800	134,600	80	53	4,11	127,200	127,000	80	59	4,55

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
127,000	126,800	80	62	4,77	119,400	119,200	80	30	2,27
126,800	126,600	80	45	3,45	119,200	119,000	80	38	2,93
126,600	126,400	80	30	2,27	119,000	118,800	80	44	3,37
126,400	126,200	80	58	4,47	118,800	118,600	80	25	1,91
126,200	126,000	80	40	3,08	118,600	118,400	80	22	1,69
126,000	125,800	80	46	3,52	118,400	118,200	80	24	1,83
125,800	125,600	80	38	2,93	118,200	118,000	80	28	2,13
125,600	125,400	80	59	4,55	118,000	117,800	80	22	1,69
125,400	125,200	80	64	4,91	117,800	117,600	80	23	1,76
125,200	125,000	80	43	3,30	117,600	117,400	80	23	1,76
125,000	124,800	80	31	2,42	117,400	117,200	80	23	1,76
124,800	124,600	80	27	2,05	117,200	117,000	80	22	1,69
124,600	124,400	80	31	2,35	117,000	116,800	80	23	1,76
124,400	124,200	80	32	2,49	116,800	116,600	80	24	1,83
124,200	124,000	80	41	3,15	116,600	116,400	80	23	1,76
124,000	123,800	80	58	4,47	116,400	116,200	80	27	2,05
123,800	123,600	80	48	3,67	116,200	116,000	80	25	1,91
123,600	123,400	80	38	2,93	116,000	115,800	80	28	2,13
123,400	123,200	80	47	3,59	115,800	115,600	80	26	1,98
123,200	123,000	80	63	4,84	115,600	115,400	80	23	1,76
123,000	122,800	80	51	3,96	115,400	115,200	80	22	1,69
122,800	122,600	80	35	2,71	115,200	115,000	80	24	1,83
122,600	122,400	80	57	4,40	115,000	114,800	80	25	1,91
122,400	122,200	80	56	4,33	114,800	114,600	80	29	2,20
122,200	122,000	80	58	4,47	114,600	114,400	80	21	1,61
122,000	121,800	80	58	4,47	114,400	114,200	80	27	2,05
121,800	121,600	80	67	5,13	114,200	114,000	80	22	1,69
121,600	121,400	80	60	4,62	114,000	113,800	80	21	1,61
121,400	121,200	80	51	3,96	113,800	113,600	80	21	1,61
121,200	121,000	80	48	3,67	113,600	113,400	80	18	1,39
121,000	120,800	80	49	3,74	113,400	113,200	80	19	1,47
120,800	120,600	80	50	3,81	113,200	113,000	80	27	2,05
120,600	120,400	80	60	4,62	113,000	112,800	80	31	2,35
120,400	120,200	80	67	5,13	112,800	112,600	80	48	3,67
120,200	120,000	80	53	4,11	112,600	112,400	80	44	3,37
120,000	119,800	80	48	3,67	112,400	112,200	80	44	3,37
119,800	119,600	80	50	3,81	112,200	112,000	80	33	2,57
119,600	119,400	80	29	2,20	112,000	111,800	80	26	1,98

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
111,800	111,600	80	35	2,71	104,200	104,000	80	42	3,23
111,600	111,400	80	34	2,64	104,000	103,800	80	39	3,01
111,400	111,200	80	29	2,20	103,800	103,600	80	30	2,27
111,200	111,000	80	20	1,54	103,600	103,400	80	30	2,27
111,000	110,800	80	31	2,35	103,400	103,200	80	34	2,64
110,800	110,600	80	33	2,57	103,200	103,000	80	28	2,13
110,600	110,400	80	39	3,01	103,000	102,800	80	38	2,93
110,400	110,200	80	49	3,74	102,800	102,600	80	24	1,83
110,200	110,000	80	45	3,45	102,600	102,400	80	39	3,01
110,000	109,800	80	29	2,20	102,400	102,200	80	39	3,01
109,800	109,600	80	31	2,35	102,200	102,000	80	38	2,93
109,600	109,400	80	28	2,13	102,000	101,800	80	35	2,71
109,400	109,200	80	27	2,05	101,800	101,600	80	24	1,83
109,200	109,000	80	23	1,76	101,600	101,400	80	32	2,49
109,000	108,800	80	31	2,42	101,400	101,200	80	31	2,35
108,800	108,600	80	24	1,83	101,200	101,000	80	30	2,27
108,600	108,400	80	32	2,49	101,000	100,800	80	26	1,98
108,400	108,200	80	43	3,30	100,800	100,600	80	39	3,01
108,200	108,000	80	53	4,11	100,600	100,400	80	24	1,83
108,000	107,800	80	24	1,83	100,400	100,200	80	28	2,13
107,800	107,600	80	40	3,08	100,200	100,000	80	32	2,49
107,600	107,400	80	47	3,59	100,000	99,800	80	30	2,27
107,400	107,200	80	38	2,93	99,800	99,600	80	31	2,42
107,200	107,000	80	29	2,20	99,600	99,400	80	31	2,42
107,000	106,800	80	32	2,49	99,400	99,200	80	33	2,57
106,800	106,600	80	34	2,64	99,200	99,000	80	22	1,69
106,600	106,400	80	37	2,86	99,000	98,800	80	18	1,39
106,400	106,200	80	39	3,01	98,800	98,600	80	26	1,98
106,200	106,000	80	44	3,37	98,600	98,400	80	33	2,57
106,000	105,800	80	34	2,64	98,400	98,200	80	40	3,08
105,800	105,600	80	43	3,30	98,200	98,000	80	57	4,40
105,600	105,400	80	41	3,15	98,000	97,800	80	23	1,76
105,400	105,200	80	23	1,76	97,800	97,600	80	20	1,54
105,200	105,000	80	29	2,20	97,600	97,400	80	21	1,61
105,000	104,800	80	27	2,05	97,400	97,200	80	20	1,54
104,800	104,600	80	35	2,71	97,200	97,000	80	21	1,61
104,600	104,400	80	31	2,42	97,000	96,800	80	20	1,54
104,400	104,200	80	40	3,08	96,800	96,600	80	21	1,61

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
96,600	96,400	80	24	1,83	89,000	88,800	80	54	4,18
96,400	96,200	80	26	1,98	88,800	88,600	80	71	5,43
96,200	96,000	50	31	2,38	88,600	88,400	80	84	6,45
96,000	95,800	50	31	2,38	88,400	88,200	80	79	6,09
95,800	95,600	50	28	2,15	88,200	88,000	80	77	5,94
95,600	95,400	50	27	2,09	88,000	87,800	80	84	6,45
95,400	95,200	50	30	2,32	87,800	87,600	80	102	7,84
95,200	95,000	80	30	2,27	87,600	87,400	50	89	6,81
95,000	94,800	80	38	2,93	87,400	87,200	50	87	6,69
94,800	94,600	80	34	2,64	87,200	87,000	50	87	6,69
94,600	94,400	80	41	3,15	87,000	86,800	80	91	6,97
94,400	94,200	80	32	2,49	86,800	86,600	80	83	6,38
94,200	94,000	80	50	3,81	86,600	86,400	80	79	6,09
94,000	93,800	80	50	3,81	86,400	86,200	80	82	6,31
93,800	93,600	80	47	3,59	86,200	86,000	80	76	5,87
93,600	93,400	80	45	3,45	86,000	85,800	80	65	4,99
93,400	93,200	80	49	3,74	85,800	85,600	80	67	5,13
93,200	93,000	80	70	5,35	85,600	85,400	80	66	5,06
93,000	92,800	80	57	4,40	85,400	85,200	80	59	4,55
92,800	92,600	80	50	3,81	85,200	85,000	80	66	5,06
92,600	92,400	80	41	3,15	85,000	84,800	80	61	4,69
92,400	92,200	80	35	2,71	84,800	84,600	80	68	5,21
92,200	92,000	80	50	3,81	84,600	84,400	80	56	4,33
92,000	91,800	80	56	4,33	84,400	84,200	80	59	4,55
91,800	91,600	80	58	4,47	84,200	84,000	80	54	4,18
91,600	91,400	80	50	3,81	84,000	83,800	80	56	4,33
91,400	91,200	80	43	3,30	83,800	83,600	80	61	4,69
91,200	91,000	80	42	3,23	83,600	83,400	80	75	5,79
91,000	90,800	80	50	3,81	83,400	83,200	80	82	6,31
90,800	90,600	80	50	3,81	83,200	83,000	80	79	6,09
90,600	90,400	80	49	3,74	83,000	82,800	80	67	5,13
90,400	90,200	80	52	4,03	82,800	82,600	80	63	4,84
90,200	90,000	80	39	3,01	82,600	82,400	80	65	4,99
90,000	89,800	80	55	4,25	82,400	82,200	80	68	5,21
89,800	89,600	80	49	3,74	82,200	82,000	80	82	6,31
89,600	89,400	80	58	4,47	82,000	81,800	80	69	5,28
89,400	89,200	80	51	3,89	81,800	81,600	80	73	5,65
89,200	89,000	80	58	4,47	81,600	81,400	80	74	5,72

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Decrescente / Faixa 1			Abr./2007	
INICIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
81,400	81,200	80	74	5,72	73,800	73,600	80	44	3,37
81,200	81,000	80	59	4,55	73,600	73,400	80	42	3,23
81,000	80,800	80	45	3,45	73,400	73,200	80	38	2,93
80,800	80,600	80	70	5,35	73,200	73,000	80	46	3,52
80,600	80,400	80	65	4,99	73,000	72,800	80	47	3,59
80,400	80,200	80	49	3,74	72,800	72,600	80	34	2,64
80,200	80,000	80	46	3,52	72,600	72,400	80	33	2,57
80,000	79,800	80	55	4,25	72,400	72,200	80	38	2,93
79,800	79,600	80	44	3,37	72,200	72,000	80	36	2,79
79,600	79,400	80	49	3,74	72,000	71,800	80	40	3,08
79,400	79,200	80	42	3,23	71,800	71,600	80	56	4,33
79,200	79,000	80	24	1,83	71,600	71,400	80	62	4,77
79,000	78,800	80	21	1,61	71,400	71,200	80	46	3,52
78,800	78,600	80	25	1,91	71,200	71,000	80	66	5,06
78,600	78,400	80	33	2,57	71,000	70,800	80	62	4,77
78,400	78,200	80	46	3,52	70,800	70,600	80	80	6,16
78,200	78,000	80	27	2,05	70,600	70,400	80	63	4,84
78,000	77,800	80	27	2,05	70,400	70,200	80	101	7,77
77,800	77,600	80	24	1,83	70,200	70,000	80	85	6,53
77,600	77,400	80	27	2,05	70,000	69,800	80	63	4,84
77,400	77,200	80	25	1,91	69,800	69,600	80	40	3,08
77,200	77,000	80	32	2,49	69,600	69,400	80	58	4,47
77,000	76,800	80	64	4,91	69,400	69,200	80	51	3,96
76,800	76,600	80	45	3,45	69,200	69,000	80	59	4,55
76,600	76,400	80	31	2,42	69,000	68,800	80	77	5,94
76,400	76,200	80	41	3,15	68,800	68,600	80	63	4,84
76,200	76,000	80	40	3,08	68,600	68,400	80	48	3,67
76,000	75,800	80	71	5,43	68,400	68,200	80	62	4,77
75,800	75,600	80	81	6,23	68,200	68,000	80	77	5,94
75,600	75,400	80	77	5,94	68,000	67,800	80	71	5,43
75,400	75,200	80	71	5,43	67,800	67,600	80	70	5,35
75,200	75,000	80	59	4,55	67,600	67,400	80	77	5,94
75,000	74,800	80	55	4,25	67,400	67,200	80	43	3,30
74,800	74,600	80	68	5,21	67,200	67,000	80	66	5,06
74,600	74,400	80	44	3,37	67,000	66,800	50	69	5,29
74,400	74,200	80	35	2,71	66,800	66,600	50	57	4,36
74,200	74,000	80	34	2,64	66,600	66,400	50	66	5,06
74,000	73,800	80	67	5,13	66,400	66,200	50	54	4,19

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
66,200	66,000	50	67	5,18	58,600	58,400	80	28	2,13
66,000	65,800	50	62	4,77	58,400	58,200	80	30	2,27
65,800	65,600	50	49	3,78	58,200	58,000	80	31	2,35
65,600	65,400	50	45	3,49	58,000	57,800	80	31	2,42
65,400	65,200	80	44	3,37	57,800	57,600	80	30	2,27
65,200	65,000	80	54	4,18	57,600	57,400	80	31	2,35
65,000	64,800	80	41	3,15	57,400	57,200	80	31	2,35
64,800	64,600	50	58	4,48	57,200	57,000	80	25	1,91
64,600	64,400	30	79	6,07	57,000	56,800	80	30	2,27
64,400	64,200	30	62	4,74	56,800	56,600	80	28	2,13
64,200	64,000	50	55	4,25	56,600	56,400	80	25	1,91
64,000	63,800	50	63	4,83	56,400	56,200	80	31	2,35
63,800	63,600	50	61	4,65	56,200	56,000	80	32	2,49
63,600	63,400	50	64	4,94	56,000	55,800	80	29	2,20
63,400	63,200	50	61	4,65	55,800	55,600	80	24	1,83
63,200	63,000	50	61	4,71	55,600	55,400	80	23	1,76
63,000	62,800	50	67	5,18	55,400	55,200	80	27	2,05
62,800	62,600	50	59	4,54	55,200	55,000	80	28	2,13
62,600	62,400	80	31	2,42	55,000	54,800	80	27	2,05
62,400	62,200	80	43	3,30	54,800	54,600	80	30	2,27
62,200	62,000	80	41	3,15	54,600	54,400	80	30	2,27
62,000	61,800	80	53	4,11	54,400	54,200	80	30	2,27
61,800	61,600	80	52	4,03	54,200	54,000	80	24	1,83
61,600	61,400	80	40	3,08	54,000	53,800	80	28	2,13
61,400	61,200	80	34	2,64	53,800	53,600	80	29	2,20
61,200	61,000	80	34	2,64	53,600	53,400	80	28	2,13
61,000	60,800	80	31	2,42	53,400	53,200	80	30	2,27
60,800	60,600	80	28	2,13	53,200	53,000	80	22	1,69
60,600	60,400	80	35	2,71	53,000	52,800	80	23	1,76
60,400	60,200	80	29	2,20	52,800	52,600	80	21	1,61
60,200	60,000	50	32	2,44	52,600	52,400	80	25	1,91
60,000	59,800	50	26	2,03	52,400	52,200	80	29	2,20
59,800	59,600	80	26	1,98	52,200	52,000	80	31	2,35
59,600	59,400	80	30	2,27	52,000	51,800	80	21	1,61
59,400	59,200	80	35	2,71	51,800	51,600	80	25	1,91
59,200	59,000	80	29	2,20	51,600	51,400	80	33	2,57
59,000	58,800	80	32	2,49	51,400	51,200	80	27	2,05
58,800	58,600	80	31	2,35	51,200	51,000	80	24	1,83

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
51,000	50,800	80	31	2,35	43,400	43,200	80	50	3,81
50,800	50,600	80	34	2,64	43,200	43,000	80	36	2,79
50,600	50,400	80	35	2,71	43,000	42,800	80	22	1,69
50,400	50,200	80	34	2,64	42,800	42,600	80	29	2,20
50,200	50,000	80	31	2,42	42,600	42,400	80	31	2,35
50,000	49,800	80	29	2,20	42,400	42,200	80	27	2,05
49,800	49,600	80	29	2,20	42,200	42,000	80	32	2,49
49,600	49,400	80	24	1,83	42,000	41,800	80	23	1,76
49,400	49,200	80	26	1,98	41,800	41,600	80	25	1,91
49,200	49,000	80	28	2,13	41,600	41,400	80	21	1,61
49,000	48,800	80	27	2,05	41,400	41,200	80	24	1,83
48,800	48,600	80	28	2,13	41,200	41,000	80	29	2,20
48,600	48,400	80	25	1,91	41,000	40,800	80	26	1,98
48,400	48,200	80	23	1,76	40,800	40,600	80	28	2,13
48,200	48,000	80	31	2,42	40,600	40,400	80	27	2,05
48,000	47,800	80	27	2,05	40,400	40,200	80	28	2,13
47,800	47,600	80	31	2,42	40,200	40,000	80	22	1,69
47,600	47,400	80	26	1,98	40,000	39,800	80	21	1,61
47,400	47,200	80	29	2,20	39,800	39,600	80	21	1,61
47,200	47,000	80	27	2,05	39,600	39,400	80	24	1,83
47,000	46,800	80	25	1,91	39,400	39,200	80	31	2,42
46,800	46,600	80	30	2,27	39,200	39,000	80	26	1,98
46,600	46,400	80	31	2,35	39,000	38,800	80	24	1,83
46,400	46,200	80	31	2,35	38,800	38,600	80	20	1,54
46,200	46,000	80	28	2,13	38,600	38,400	80	25	1,91
46,000	45,800	80	31	2,35	38,400	38,200	80	27	2,05
45,800	45,600	80	29	2,20	38,200	38,000	80	32	2,49
45,600	45,400	80	27	2,05	38,000	37,800	80	25	1,91
45,400	45,200	80	34	2,64	37,800	37,600	80	20	1,54
45,200	45,000	80	31	2,42	37,600	37,400	80	22	1,69
45,000	44,800	80	34	2,64	37,400	37,200	80	23	1,76
44,800	44,600	80	35	2,71	37,200	37,000	80	20	1,54
44,600	44,400	80	36	2,79	37,000	36,800	80	21	1,61
44,400	44,200	80	37	2,86	36,800	36,600	80	23	1,76
44,200	44,000	80	24	1,83	36,600	36,400	80	28	2,13
44,000	43,800	80	26	1,98	36,400	36,200	80	28	2,13
43,800	43,600	80	26	1,98	36,200	36,000	80	21	1,61
43,600	43,400	80	39	3,01	36,000	35,800	80	19	1,47

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
35,800	35,600	80	30	2,27	28,200	28,000	80	21	1,61
35,600	35,400	80	25	1,91	28,000	27,800	80	29	2,20
35,400	35,200	80	26	1,98	27,800	27,600	80	24	1,83
35,200	35,000	80	26	1,98	27,600	27,400	80	34	2,64
35,000	34,800	80	27	2,05	27,400	27,200	80	33	2,57
34,800	34,600	80	25	1,91	27,200	27,000	80	39	3,01
34,600	34,400	80	24	1,83	27,000	26,800	80	31	2,35
34,400	34,200	80	20	1,54	26,800	26,600	80	26	1,98
34,200	34,000	80	29	2,20	26,600	26,400	80	24	1,83
34,000	33,800	80	26	1,98	26,400	26,200	80	24	1,83
33,800	33,600	80	28	2,13	26,200	26,000	80	31	2,35
33,600	33,400	80	27	2,05	26,000	25,800	80	38	2,93
33,400	33,200	80	24	1,83	25,800	25,600	80	27	2,05
33,200	33,000	80	28	2,13	25,600	25,400	80	29	2,20
33,000	32,800	80	35	2,71	25,400	25,200	80	32	2,49
32,800	32,600	80	26	1,98	25,200	25,000	80	37	2,86
32,600	32,400	80	29	2,20	25,000	24,800	80	35	2,71
32,400	32,200	80	23	1,76	24,800	24,600	80	38	2,93
32,200	32,000	80	20	1,54	24,600	24,400	80	31	2,42
32,000	31,800	80	23	1,76	24,400	24,200	30	28	2,17
31,800	31,600	80	31	2,42	24,200	24,000	50	27	2,09
31,600	31,400	80	33	2,57	24,000	23,800	80	31	2,35
31,400	31,200	80	31	2,35	23,800	23,600	80	25	1,91
31,200	31,000	80	31	2,35	23,600	23,400	80	35	2,71
31,000	30,800	80	33	2,57	23,400	23,200	80	29	2,20
30,800	30,600	80	28	2,13	23,200	23,000	80	42	3,23
30,600	30,400	80	23	1,76	23,000	22,800	80	38	2,93
30,400	30,200	80	32	2,49	22,800	22,600	80	24	1,83
30,200	30,000	80	23	1,76	22,600	22,400	80	25	1,91
30,000	29,800	80	23	1,76	22,400	22,200	80	33	2,57
29,800	29,600	80	26	1,98	22,200	22,000	80	27	2,05
29,600	29,400	80	19	1,47	22,000	21,800	80	24	1,83
29,400	29,200	80	26	1,98	21,800	21,600	80	26	1,98
29,200	29,000	80	21	1,61	21,600	21,400	80	24	1,83
29,000	28,800	80	29	2,20	21,400	21,200	80	26	1,98
28,800	28,600	80	18	1,39	21,200	21,000	80	33	2,57
28,600	28,400	80	26	1,98	21,000	20,800	80	31	2,35
28,400	28,200	80	24	1,83	20,800	20,600	80	27	2,05

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Decrescente / Faixa 1			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
20,600	20,400	80	29	2,20	13,000	12,800	80	31	2,35
20,400	20,200	80	23	1,76	12,800	12,600	80	18	1,39
20,200	20,000	80	24	1,83	12,600	12,400	80	19	1,47
20,000	19,800	80	24	1,83	12,400	12,200	80	21	1,61
19,800	19,600	80	24	1,83	12,200	12,000	80	25	1,91
19,600	19,400	80	33	2,57	12,000	11,800	80	21	1,61
19,400	19,200	80	32	2,49	11,800	11,600	80	22	1,69
19,200	19,000	80	50	3,81	11,600	11,400	80	22	1,69
19,000	18,800	80	63	4,84	11,400	11,200	80	22	1,69
18,800	18,600	80	32	2,49	11,200	11,000	80	24	1,83
18,600	18,400	80	42	3,23	11,000	10,800	80	21	1,61
18,400	18,200	80	46	3,52	10,800	10,600	80	19	1,47
18,200	18,000	80	33	2,57	10,600	10,400	80	18	1,39
18,000	17,800	80	23	1,76	10,400	10,200	80	17	1,32
17,800	17,600	80	21	1,61	10,200	10,000	80	21	1,61
17,600	17,400	80	24	1,83	10,000	9,800	80	26	1,98
17,400	17,200	80	31	2,35	9,800	9,600	80	23	1,76
17,200	17,000	80	28	2,13	9,600	9,400	80	22	1,69
17,000	16,800	80	24	1,83	9,400	9,200	80	23	1,76
16,800	16,600	80	26	1,98	9,200	9,000	80	20	1,54
16,600	16,400	80	35	2,71	9,000	8,800	80	20	1,54
16,400	16,200	80	25	1,91	8,800	8,600	80	17	1,32
16,200	16,000	80	22	1,69	8,600	8,400	80	26	1,98
16,000	15,800	80	22	1,69	8,400	8,200	80	19	1,47
15,800	15,600	80	22	1,69	8,200	8,000	80	18	1,39
15,600	15,400	80	21	1,61	8,000	7,800	50	23	1,74
15,400	15,200	80	21	1,61	7,800	7,600	30	22	1,66
15,200	15,000	80	26	1,98	7,600	7,400	50	22	1,68
15,000	14,800	80	21	1,61	7,400	7,200	80	16	1,25
14,800	14,600	80	18	1,39	7,200	7,000	80	19	1,47
14,600	14,400	80	22	1,69	7,000	6,800	80	20	1,54
14,400	14,200	80	19	1,47	6,800	6,600	80	25	1,91
14,200	14,000	80	20	1,54	6,600	6,400	80	19	1,47
14,000	13,800	80	18	1,39	6,400	6,200	80	24	1,83
13,800	13,600	80	24	1,83	6,200	6,000	80	17	1,32
13,600	13,400	80	26	1,98	6,000	5,800	80	15	1,17
13,400	13,200	80	24	1,83	5,800	5,600	80	20	1,54
13,200	13,000	80	27	2,05	5,600	5,400	80	18	1,39

[illegible]

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA			DATA	
					Decrescente / Faixa 1			Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Decrescente / Faixa 2			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
24,800	24,600	50	39	2,96	17,200	17,000	80	41	3,15
24,600	24,400	50	36	2,79	17,000	16,800	80	71	5,50
24,400	24,200	30	46	3,50	16,800	16,600	80	37	2,86
24,200	24,000	50	32	2,44	16,600	16,400	80	34	2,64
24,000	23,800	50	51	3,95	16,400	16,200	80	29	2,20
23,800	23,600	80	55	4,25	16,200	16,000	80	28	2,13
23,600	23,400	80	42	3,23	16,000	15,800	80	27	2,05
23,400	23,200	80	46	3,52	15,800	15,600	80	29	2,20
23,200	23,000	80	89	6,82	15,600	15,400	80	36	2,79
23,000	22,800	80	45	3,45	15,400	15,200	80	31	2,35
22,800	22,600	80	39	3,01	15,200	15,000	80	41	3,15
22,600	22,400	80	54	4,18	15,000	14,800	80	26	1,98
22,400	22,200	80	27	2,05	14,800	14,600	80	37	2,86
22,200	22,000	80	66	5,06	14,600	14,400	80	52	4,03
22,000	21,800	80	38	2,93	14,400	14,200	80	26	1,98
21,800	21,600	80	35	2,71	14,200	14,000	80	17	1,32
21,600	21,400	80	53	4,11	14,000	13,800	80	29	2,20
21,400	21,200	80	37	2,86	13,800	13,600	80	28	2,13
21,200	21,000	80	58	4,47	13,600	13,400	80	42	3,23
21,000	20,800	80	26	1,98	13,400	13,200	80	32	2,49
20,800	20,600	80	31	2,42	13,200	13,000	80	39	3,01
20,600	20,400	80	54	4,18	13,000	12,800	80	39	3,01
20,400	20,200	80	52	4,03	12,800	12,600	80	37	2,86
20,200	20,000	80	46	3,52	12,600	12,400	80	20	1,54
20,000	19,800	80	27	2,05	12,400	12,200	80	26	1,98
19,800	19,600	80	38	2,93	12,200	12,000	80	38	2,93
19,600	19,400	80	53	4,11	12,000	11,800	80	30	2,27
19,400	19,200	80	34	2,64	11,800	11,600	80	35	2,71
19,200	19,000	80	42	3,23	11,600	11,400	80	29	2,20
19,000	18,800	80	41	3,15	11,400	11,200	80	22	1,69
18,800	18,600	80	60	4,62	11,200	11,000	50	38	2,91
18,600	18,400	80	53	4,11	11,000	10,800	80	36	2,79
18,400	18,200	80	57	4,40	10,800	10,600	80	43	3,30
18,200	18,000	80	63	4,84	10,600	10,400	80	24	1,83
18,000	17,800	80	56	4,33	10,400	10,200	80	25	1,91
17,800	17,600	80	44	3,37	10,200	10,000	80	32	2,49
17,600	17,400	80	68	5,21	10,000	9,800	80	23	1,76
17,400	17,200	80	64	4,91	9,800	9,600	80	23	1,76

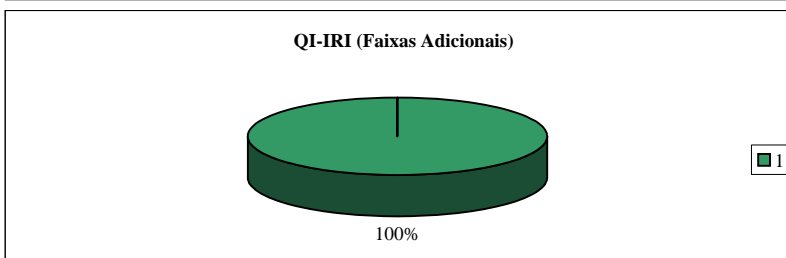
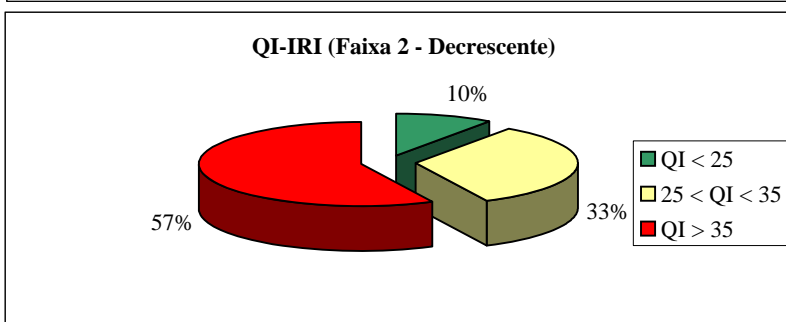
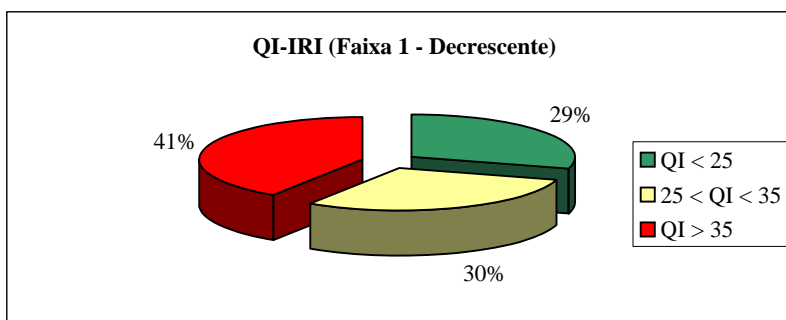
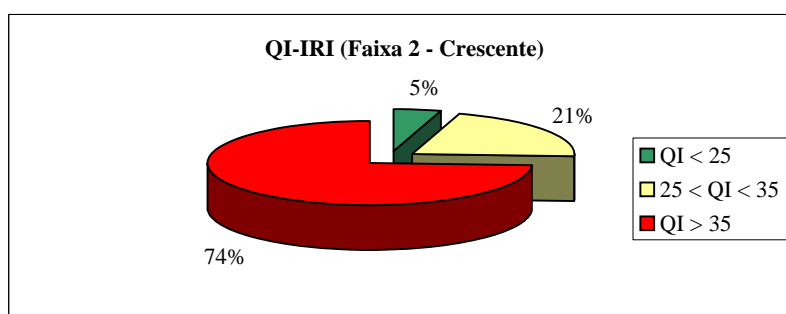
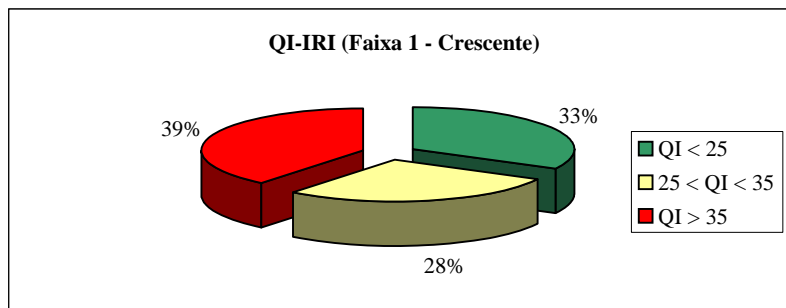
IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Decrescente / Faixa 2			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
9,600	9,400	80	24	1,83	2,000	1,800	50	32	2,50
9,400	9,200	80	22	1,69	1,800	1,600	50	33	2,56
9,200	9,000	80	26	1,98	1,600	1,400	80	34	2,64
9,000	8,800	80	30	2,27	1,400	1,200	50	30	2,32
8,800	8,600	80	30	2,27	1,200	1,000	50	42	3,20
8,600	8,400	80	33	2,57	1,000	0,800	50	39	2,96
8,400	8,200	80	34	2,64	0,800	0,600	50	43	3,31
8,200	8,000	80	42	3,23	0,600	0,400	50	45	3,49
8,000	7,800	30	29	2,21	0,400	0,200	50	40	3,08
7,800	7,600	50	34	2,62	0,200	0,000	50	32	2,49
7,600	7,400	80	33	2,57					
7,400	7,200	80	29	2,20					
7,200	7,000	80	39	3,01					
7,000	6,800	80	39	3,01					
6,800	6,600	80	48	3,67					
6,600	6,400	80	47	3,59					
6,400	6,200	80	33	2,57					
6,200	6,000	80	22	1,69					
6,000	5,800	80	23	1,76					
5,800	5,600	80	42	3,23					
5,600	5,400	80	28	2,13					
5,400	5,200	80	31	2,35					
5,200	5,000	80	36	2,79					
5,000	4,800	80	28	2,13					
4,800	4,600	80	34	2,64					
4,600	4,400	80	24	1,83					
4,400	4,200	80	38	2,93					
4,200	4,000	50	41	3,14					
4,000	3,800	50	32	2,44					
3,800	3,600	50	48	3,66					
3,600	3,400	30	46	3,55					
3,400	3,200	50	47	3,61					
3,200	3,000	50	35	2,67					
3,000	2,800	50	26	2,03					
2,800	2,600	50	30	2,32					
2,600	2,400	50	29	2,21					
2,400	2,200	50	30	2,32					
2,200	2,000	50	31	2,38					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / GO			PISTA km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		LADO / FAIXA Faixas Adicionais			DATA Abr./2007	
INÍCIO km 0,000					FINAL km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
CRESCENTE					DECRESCENTE				
45250	45450	49	54	4,13	43050	42850	160	38	2,91
45450	45650	50	64	4,94	42850	42650	300	59	4,54
45650	45772	50	59	4,58	42650	42450	190	42	3,26
					42450	42250	95	28	2,15
62900	63100	50	42	3,20	42250	42050	105	29	2,27
63100	63300	45	50	3,84	42050	41850	100	29	2,21
63300	63500	48	38	2,91	41850	41650	120	32	2,44
63500	63700	51	68	5,24	41650	41450	115	31	2,38
63700	63900	50	70	5,41	41450	41250	70	24	1,86
63900	64100	49	50	3,84	41250	41050	100	29	2,21
64100	64300	50	52	4,01	41050	40850	65	23	1,80
64300	64500	50	59	4,54	40850	40843	143	35	2,71
64500	64505	50	74	5,70					
DECRESCENTE									
156300	156100	57	50	3,87					
156100	155900	70	67	5,12					
155900	155700	67	64	4,94					
155700	155500	70	67	5,12					
155500	155474	10	72	5,52					
97350	97150	50	22	1,71					
97150	96950	75	25	1,92					
96950	96750	85	26	2,03					
96750	96550	85	26	2,03					
96550	96350	75	25	1,92					
96350	96150	70	24	1,86					
96150	96032	93	28	2,13					
53100	52900	90	27	2,08					
52900	52700	60	23	1,80					
52700	52500	80	26	1,99					
52500	52300	70	24	1,86					
52300	52292	65	25	1,92					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / GO			km 0,0 ao km 24,8 - Dupla km 24,8 ao km 157,3 - Simples		Faixas Adicionais			Abr./2007	
INÍCIO					FINAL				
km 0,000					km 153,700				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
9,600	9,400	80	24	1,83	2,000	1,800	50	32	2,50
9,400	9,200	80	22	1,69	1,800	1,600	50	33	2,56
9,200	9,000	80	26	1,98	1,600	1,400	80	34	2,64
9,000	8,800	80	30	2,27	1,400	1,200	50	30	2,32
8,800	8,600	80	30	2,27	1,200	1,000	50	42	3,20
8,600	8,400	80	33	2,57	1,000	0,800	50	39	2,96
8,400	8,200	80	34	2,64	0,800	0,600	50	43	3,31
8,200	8,000	80	42	3,23	0,600	0,400	50	45	3,49
8,000	7,800	30	29	2,21	0,400	0,200	50	40	3,08
7,800	7,600	50	34	2,62	0,200	0,000	50	32	2,49
7,600	7,400	80	33	2,57					
7,400	7,200	80	29	2,20					
7,200	7,000	80	39	3,01					
7,000	6,800	80	39	3,01					
6,800	6,600	80	48	3,67					
6,600	6,400	80	47	3,59					
6,400	6,200	80	33	2,57					
6,200	6,000	80	22	1,69					
6,000	5,800	80	23	1,76					
5,800	5,600	80	42	3,23					
5,600	5,400	80	28	2,13					
5,400	5,200	80	31	2,35					
5,200	5,000	80	36	2,79					
5,000	4,800	80	28	2,13					
4,800	4,600	80	34	2,64					
4,600	4,400	80	24	1,83					
4,400	4,200	80	38	2,93					
4,200	4,000	50	41	3,14					
4,000	3,800	50	32	2,44					
3,800	3,600	50	48	3,66					
3,600	3,400	30	46	3,55					
3,400	3,200	50	47	3,61					
3,200	3,000	50	35	2,67					
3,000	2,800	50	26	2,03					
2,800	2,600	50	30	2,32					
2,600	2,400	50	29	2,21					
2,400	2,200	50	30	2,32					
2,200	2,000	50	31	2,38					

RESUMO ESTATÍSTICO DA IRREGULARIDADE LONGITUDINAL

RODOVIA BR-040 / GO (km 0,000 ao km 153,700)



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

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
0,000	0,200	80	35	2,71	7,600	7,800	80	22	1,67
0,200	0,400	80	28	2,19	7,800	8,000	80	19	1,45
0,400	0,600	80	28	2,12	8,000	8,200	80	23	1,74
0,600	0,800	80	34	2,64	8,200	8,400	80	23	1,74
0,800	1,000	80	29	2,26	8,400	8,600	80	22	1,67
1,000	1,200	80	28	2,19	8,600	8,800	80	22	1,67
1,200	1,400	80	28	2,19	8,800	9,000	80	23	1,74
1,400	1,600	80	28	2,12	9,000	9,200	80	26	1,97
1,600	1,800	80	25	1,89	9,200	9,400	80	21	1,60
1,800	2,000	80	28	2,12	9,400	9,600	80	25	1,89
2,000	2,200	80	33	2,56	9,600	9,800	80	25	1,89
2,200	2,400	80	31	2,41	9,800	10,000	80	21	1,60
2,400	2,600	80	25	1,89	10,000	10,200	80	21	1,60
2,600	2,800	80	27	2,04	10,200	10,400	80	20	1,52
2,800	3,000	80	32	2,49	10,400	10,600	80	22	1,67
3,000	3,200	80	34	2,64	10,600	10,800	80	23	1,74
3,200	3,400	80	27	2,04	10,800	11,000	80	20	1,52
3,400	3,600	80	28	2,19	11,000	11,200	80	21	1,60
3,600	3,800	80	27	2,04	11,200	11,400	80	21	1,60
3,800	4,000	80	26	1,97	11,400	11,600	80	19	1,45
4,000	4,200	80	28	2,19	11,600	11,800	80	20	1,52
4,200	4,400	80	29	2,26	11,800	12,000	80	22	1,67
4,400	4,600	80	25	1,89	12,000	12,200	80	23	1,74
4,600	4,800	80	24	1,82	12,200	12,400	80	28	2,12
4,800	5,000	80	23	1,74	12,400	12,600	80	23	1,74
5,000	5,200	80	24	1,82	12,600	12,800	80	24	1,82
5,200	5,400	80	23	1,74	12,800	13,000	80	28	2,19
5,400	5,600	80	26	1,97	13,000	13,200	80	27	2,04
5,600	5,800	80	25	1,89	13,200	13,400	80	30	2,34
5,800	6,000	80	22	1,67	13,400	13,600	80	28	2,19
6,000	6,200	80	23	1,74	13,600	13,800	80	30	2,34
6,200	6,400	80	22	1,67	13,800	14,000	80	31	2,41
6,400	6,600	80	19	1,45	14,000	14,200	80	26	1,97
6,600	6,800	80	20	1,52	14,200	14,400	80	25	1,89
6,800	7,000	80	25	1,89	14,400	14,600	80	24	1,82
7,000	7,200	80	25	1,89	14,600	14,800	80	28	2,12
7,200	7,400	80	25	1,89	14,800	15,000	80	23	1,74
7,400	7,600	80	24	1,82	15,000	15,200	80	24	1,82

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
15,200	15,400	80	32	2,49	22,800	23,000	80	25	1,89
15,400	15,600	80	30	2,34	23,000	23,200	80	28	2,19
15,600	15,800	80	33	2,56	23,200	23,400	80	32	2,49
15,800	16,000	80	25	1,89	23,400	23,600	80	33	2,56
16,000	16,200	80	28	2,12	23,600	23,800	80	31	2,41
16,200	16,400	80	27	2,04	23,800	24,000	80	36	2,78
16,400	16,600	80	27	2,04	24,000	24,200	80	33	2,56
16,600	16,800	80	26	1,97	24,200	24,400	80	28	2,12
16,800	17,000	80	26	1,97	24,400	24,600	80	28	2,19
17,000	17,200	80	21	1,60	24,600	24,800	80	30	2,34
17,200	17,400	80	21	1,60	24,800	25,000	80	31	2,41
17,400	17,600	80	26	1,97	25,000	25,200	80	25	1,89
17,600	17,800	80	21	1,60	25,200	25,400	80	28	2,19
17,800	18,000	80	24	1,82	25,400	25,600	80	28	2,19
18,000	18,200	80	24	1,82	25,600	25,800	80	31	2,41
18,200	18,400	80	28	2,12	25,800	26,000	80	27	2,04
18,400	18,600	80	28	2,12	26,000	26,200	80	28	2,12
18,600	18,800	80	25	1,89	26,200	26,400	80	32	2,49
18,800	19,000	80	30	2,34	26,400	26,600	80	26	1,97
19,000	19,200	80	25	1,89	26,600	26,800	80	22	1,67
19,200	19,400	80	30	2,34	26,800	27,000	80	26	1,97
19,400	19,600	80	28	2,12	27,000	27,200	80	25	1,89
19,600	19,800	80	30	2,34	27,200	27,400	80	20	1,52
19,800	20,000	80	33	2,56	27,400	27,600	80	19	1,45
20,000	20,200	80	29	2,26	27,600	27,800	80	23	1,74
20,200	20,400	80	28	2,12	27,800	28,000	80	23	1,74
20,400	20,600	80	25	1,89	28,000	28,200	80	25	1,89
20,600	20,800	80	23	1,74	28,200	28,400	80	22	1,67
20,800	21,000	80	21	1,60	28,400	28,600	80	22	1,67
21,000	21,200	80	29	2,26	28,600	28,800	80	21	1,60
21,200	21,400	80	29	2,26	28,800	29,000	80	23	1,74
21,400	21,600	80	27	2,04	29,000	29,200	80	29	2,26
21,600	21,800	80	30	2,34	29,200	29,400	80	26	1,97
21,800	22,000	80	25	1,89	29,400	29,600	80	29	2,26
22,000	22,200	80	22	1,67	29,600	29,800	80	25	1,89
22,200	22,400	80	26	1,97	29,800	30,000	80	33	2,56
22,400	22,600	80	25	1,89	30,000	30,200	80	27	2,04
22,600	22,800	80	28	2,12	30,200	30,400	80	21	1,60

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
30,400	30,600	80	25	1,89	38,000	38,200	80	25	1,89
30,600	30,800	80	26	1,97	38,200	38,400	80	23	1,74
30,800	31,000	80	25	1,89	38,400	38,600	80	18	1,37
31,000	31,200	80	28	2,19	38,600	38,800	80	28	2,19
31,200	31,400	80	27	2,04	38,800	39,000	80	26	1,97
31,400	31,600	80	26	1,97	39,000	39,200	80	24	1,82
31,600	31,800	80	21	1,60	39,200	39,400	80	21	1,60
31,800	32,000	80	26	1,97	39,400	39,600	80	21	1,60
32,000	32,200	80	23	1,74	39,600	39,800	80	17	1,30
32,200	32,400	80	20	1,52	39,800	40,000	80	20	1,52
32,400	32,600	80	20	1,52	40,000	40,200	80	21	1,60
32,600	32,800	80	20	1,52	40,200	40,400	50	34	2,61
32,800	33,000	80	22	1,67	40,400	40,600	50	27	2,09
33,000	33,200	80	18	1,37	40,600	40,800	30	38	2,95
33,200	33,400	80	27	2,04	40,800	41,000	30	43	3,33
33,400	33,600	80	24	1,82	41,000	41,200	50	26	2,03
33,600	33,800	80	29	2,26	41,200	41,400	50	26	2,03
33,800	34,000	80	23	1,74	41,400	41,600	50	26	1,97
34,000	34,200	80	24	1,82	41,600	41,800	50	25	1,91
34,200	34,400	80	22	1,67	41,800	42,000	50	39	3,01
34,400	34,600	80	31	2,41	42,000	42,200	50	25	1,91
34,600	34,800	80	28	2,19	42,200	42,400	50	22	1,68
34,800	35,000	80	26	1,97	42,400	42,600	50	27	2,09
35,000	35,200	80	24	1,82	42,600	42,800	30	34	2,62
35,200	35,400	80	25	1,89	42,800	43,000	50	25	1,91
35,400	35,600	80	29	2,26	43,000	43,200	30	25	1,91
35,600	35,800	80	36	2,78	43,200	43,400	30	39	3,00
35,800	36,000	80	35	2,71	43,400	43,600	50	30	2,32
36,000	36,200	80	31	2,41	43,600	43,800	50	32	2,49
36,200	36,400	80	35	2,71	43,800	44,000	30	32	2,48
36,400	36,600	80	20	1,52	44,000	44,200	30	37	2,81
36,600	36,800	80	24	1,82	44,200	44,400	50	34	2,61
36,800	37,000	80	23	1,74	44,400	44,600	50	25	1,91
37,000	37,200	80	24	1,82	44,600	44,800	50	24	1,86
37,200	37,400	80	28	2,19	44,800	45,000	50	23	1,74
37,400	37,600	80	25	1,89	45,000	45,200	80	26	1,97
37,600	37,800	80	32	2,49	45,200	45,400	80	20	1,52
37,800	38,000	80	28	2,19	45,400	45,600	80	27	2,04

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
45,600	45,800	80	27		2,04	53,200	53,400	80	
45,800	46,000	80	26	1,97	53,400	53,600	80	22	1,67
46,000	46,200	80	24	1,82	53,600	53,800	80	29	2,26
46,200	46,400	80	22	1,67	53,800	54,000	80	27	2,04
46,400	46,600	80	19	1,45	54,000	54,200	80	20	1,52
46,600	46,800	80	21	1,60	54,200	54,400	80	23	1,74
46,800	47,000	80	24	1,82	54,400	54,600	50	25	1,91
47,000	47,200	80	20	1,52	54,600	54,800	50	23	1,80
47,200	47,400	50	24	1,86	54,800	55,000	50	23	1,74
47,400	47,600	50	25	1,91	55,000	55,200	80	22	1,67
47,600	47,800	80	20	1,52	55,200	55,400	80	26	1,97
47,800	48,000	80	21	1,60	55,400	55,600	80	28	2,12
48,000	48,200	80	21	1,60	55,600	55,800	80	27	2,04
48,200	48,400	80	17	1,30	55,800	56,000	80	22	1,67
48,400	48,600	80	20	1,52	56,000	56,200	80	20	1,52
48,600	48,800	80	22	1,67	56,200	56,400	80	17	1,30
48,800	49,000	30	25	1,96	56,400	56,600	80	19	1,45
49,000	49,200	30	22	1,72	56,600	56,800	80	18	1,37
49,200	49,400	50	24	1,86	56,800	57,000	80	18	1,37
49,400	49,600	50	21	1,63	57,000	57,200	80	19	1,45
49,600	49,800	50	22	1,68	57,200	57,400	80	23	1,74
49,800	50,000	80	21	1,60	57,400	57,600	80	26	1,97
50,000	50,200	80	20	1,52	57,600	57,800	80	22	1,67
50,200	50,400	80	23	1,74	57,800	58,000	80	23	1,74
50,400	50,600	80	22	1,67	58,000	58,200	80	21	1,60
50,600	50,800	80	21	1,60	58,200	58,400	80	36	2,78
50,800	51,000	80	21	1,60	58,400	58,600	80	20	1,52
51,000	51,200	80	18	1,37	58,600	58,800	80	18	1,37
51,200	51,400	80	19	1,45	58,800	59,000	80	21	1,60
51,400	51,600	80	20	1,52	59,000	59,200	80	30	2,34
51,600	51,800	80	19	1,45	59,200	59,400	80	29	2,26
51,800	52,000	80	22	1,67	59,400	59,600	80	33	2,56
52,000	52,200	80	19	1,45	59,600	59,800	80	31	2,41
52,200	52,400	80	18	1,37	59,800	60,000	80	32	2,49
52,400	52,600	80	18	1,37	60,000	60,200	80	25	1,89
52,600	52,800	80	21	1,60	60,200	60,400	80	25	1,89
52,800	53,000	50	24	1,86	60,400	60,600	80	34	2,64
53,000	53,200	50	22	1,68	60,600	60,800	80	21	1,60

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
60,800	61,000	80	24		68,400	68,600	80	28	
61,000	61,200	80	25	1,89	68,600	68,800	80	21	1,60
61,200	61,400	80	28	2,19	68,800	69,000	80	19	1,45
61,400	61,600	80	35	2,71	69,000	69,200	80	20	1,52
61,600	61,800	80	30	2,34	69,200	69,400	80	20	1,52
61,800	62,000	80	24	1,82	69,400	69,600	80	21	1,60
62,000	62,200	80	28	2,19	69,600	69,800	80	21	1,60
62,200	62,400	80	28	2,12	69,800	70,000	80	26	1,97
62,400	62,600	80	20	1,52	70,000	70,200	80	22	1,67
62,600	62,800	80	26	1,97	70,200	70,400	80	22	1,67
62,800	63,000	80	34	2,64	70,400	70,600	80	20	1,52
63,000	63,200	80	28	2,12	70,600	70,800	80	18	1,37
63,200	63,400	80	25	1,89	70,800	71,000	80	25	1,89
63,400	63,600	80	28	2,19	71,000	71,200	80	26	1,97
63,600	63,800	80	22	1,67	71,200	71,400	80	27	2,04
63,800	64,000	80	23	1,74	71,400	71,600	80	27	2,04
64,000	64,200	80	20	1,52	71,600	71,800	80	36	2,78
64,200	64,400	80	22	1,67	71,800	72,000	80	25	1,89
64,400	64,600	80	21	1,60	72,000	72,200	80	23	1,74
64,600	64,800	80	20	1,52	72,200	72,400	80	22	1,67
64,800	65,000	80	22	1,67	72,400	72,600	80	21	1,60
65,000	65,200	80	14	1,08	72,600	72,800	80	21	1,60
65,200	65,400	80	18	1,37	72,800	73,000	80	18	1,37
65,400	65,600	80	21	1,60	73,000	73,200	80	19	1,45
65,600	65,800	80	21	1,60	73,200	73,400	80	26	1,97
65,800	66,000	80	26	1,97	73,400	73,600	80	25	1,89
66,000	66,200	80	24	1,82	73,600	73,800	80	23	1,74
66,200	66,400	80	24	1,82	73,800	74,000	80	20	1,52
66,400	66,600	80	25	1,89	74,000	74,200	80	22	1,67
66,600	66,800	80	18	1,37	74,200	74,400	80	24	1,82
66,800	67,000	80	21	1,60	74,400	74,600	80	26	1,97
67,000	67,200	80	18	1,37	74,600	74,800	80	28	2,12
67,200	67,400	80	20	1,52	74,800	75,000	80	30	2,34
67,400	67,600	80	17	1,30	75,000	75,200	80	28	2,12
67,600	67,800	80	27	2,04	75,200	75,400	80	28	2,12
67,800	68,000	80	33	2,56	75,400	75,600	80	28	2,12
68,000	68,200	80	25	1,89	75,600	75,800	80	33	2,56
68,200	68,400	80	35	2,71	75,800	76,000	80	28	2,19

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
76,000	76,200	80	32		2,49	83,600	83,800	80	
76,200	76,400	80	28	2,19	83,800	84,000	80	35	2,71
76,400	76,600	80	26	1,97	84,000	84,200	80	38	2,93
76,600	76,800	80	44	3,38	84,200	84,400	80	38	2,93
76,800	77,000	80	54	4,12	84,400	84,600	80	45	3,45
77,000	77,200	80	59	4,57	84,600	84,800	80	44	3,38
77,200	77,400	80	49	3,75	84,800	85,000	80	42	3,23
77,400	77,600	80	46	3,53	85,000	85,200	80	41	3,15
77,600	77,800	80	40	3,08	85,200	85,400	80	53	4,05
77,800	78,000	80	32	2,49	85,400	85,600	80	29	2,26
78,000	78,200	80	23	1,74	85,600	85,800	80	26	1,97
78,200	78,400	80	25	1,89	85,800	86,000	80	28	2,12
78,400	78,600	80	21	1,60	86,000	86,200	80	22	1,67
78,600	78,800	80	23	1,74	86,200	86,400	80	26	1,97
78,800	79,000	80	22	1,67	86,400	86,600	80	31	2,41
79,000	79,200	80	19	1,45	86,600	86,800	80	31	2,41
79,200	79,400	80	19	1,45	86,800	87,000	80	30	2,34
79,400	79,600	80	19	1,45	87,000	87,200	80	27	2,04
79,600	79,800	80	20	1,52	87,200	87,400	80	28	2,19
79,800	80,000	80	17	1,30	87,400	87,600	80	29	2,26
80,000	80,200	80	24	1,82	87,600	87,800	80	28	2,19
80,200	80,400	80	25	1,89	87,800	88,000	80	27	2,04
80,400	80,600	80	27	2,04	88,000	88,200	80	24	1,82
80,600	80,800	80	19	1,45	88,200	88,400	80	27	2,04
80,800	81,000	80	22	1,67	88,400	88,600	80	23	1,74
81,000	81,200	80	23	1,74	88,600	88,800	80	20	1,52
81,200	81,400	80	20	1,52	88,800	89,000	80	42	3,23
81,400	81,600	80	28	2,12	89,000	89,200	80	28	2,12
81,600	81,800	80	27	2,04	89,200	89,400	80	43	3,30
81,800	82,000	80	33	2,56	89,400	89,600	80	44	3,38
82,000	82,200	80	29	2,26	89,600	89,800	80	34	2,64
82,200	82,400	80	36	2,78	89,800	90,000	80	39	3,01
82,400	82,600	80	30	2,34	90,000	90,200	80	39	3,01
82,600	82,800	80	35	2,71	90,200	90,400	50	47	3,64
82,800	83,000	80	45	3,45	90,400	90,600	50	45	3,47
83,000	83,200	80	53	4,05	90,600	90,800	50	51	3,93
83,200	83,400	80	44	3,38	90,800	91,000	50	41	3,18
83,400	83,600	80	36	2,78	91,000	91,200	80	51	3,90

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
91,200	91,400	80	40		3,08	98,800	99,000	80	
91,400	91,600	80	40	3,08	99,000	99,200	80	40	3,08
91,600	91,800	80	39	3,01	99,200	99,400	80	48	3,67
91,800	92,000	80	38	2,93	99,400	99,600	80	40	3,08
92,000	92,200	80	38	2,93	99,600	99,800	80	37	2,86
92,200	92,400	80	28	2,19	99,800	100,000	80	36	2,78
92,400	92,600	80	41	3,15	100,000	100,200	80	34	2,64
92,600	92,800	80	33	2,56	100,200	100,400	80	38	2,93
92,800	93,000	80	44	3,38	100,400	100,600	80	28	2,19
93,000	93,200	80	44	3,38	100,600	100,800	80	42	3,23
93,200	93,400	80	40	3,08	100,800	101,000	80	30	2,34
93,400	93,600	80	40	3,08	101,000	101,200	80	35	2,71
93,600	93,800	80	36	2,78	101,200	101,400	80	37	2,86
93,800	94,000	80	43	3,30	101,400	101,600	80	40	3,08
94,000	94,200	80	43	3,30	101,600	101,800	80	32	2,49
94,200	94,400	80	46	3,53	101,800	102,000	80	36	2,78
94,400	94,600	80	41	3,15	102,000	102,200	80	39	3,01
94,600	94,800	80	52	3,97	102,200	102,400	80	33	2,56
94,800	95,000	80	40	3,08	102,400	102,600	80	34	2,64
95,000	95,200	80	32	2,49	102,600	102,800	80	35	2,71
95,200	95,400	80	37	2,86	102,800	103,000	80	30	2,34
95,400	95,600	80	43	3,30	103,000	103,200	80	44	3,38
95,600	95,800	80	39	3,01	103,200	103,400	80	42	3,23
95,800	96,000	80	35	2,71	103,400	103,600	80	37	2,86
96,000	96,200	80	39	3,01	103,600	103,800	80	29	2,26
96,200	96,400	80	32	2,49	103,800	104,000	80	39	3,01
96,400	96,600	80	44	3,38	104,000	104,200	80	28	2,19
96,600	96,800	80	32	2,49	104,200	104,400	80	29	2,26
96,800	97,000	80	42	3,23	104,400	104,600	80	29	2,26
97,000	97,200	80	40	3,08	104,600	104,800	80	31	2,41
97,200	97,400	80	46	3,53	104,800	105,000	50	29	2,26
97,400	97,600	80	50	3,82	105,000	105,200	50	27	2,09
97,600	97,800	80	35	2,71	105,200	105,400	50	37	2,84
97,800	98,000	80	36	2,78	105,400	105,600	30	34	2,62
98,000	98,200	80	26	1,97	105,600	105,800	50	38	2,95
98,200	98,400	80	32	2,49	105,800	106,000	50	52	3,99
98,400	98,600	80	26	1,97	106,000	106,200	80	47	3,60
98,600	98,800	80	35	2,71	106,200	106,400	80	52	3,97

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INICIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
106,400	106,600	80	52		3,97	114,000	114,200	80	
106,600	106,800	80	53	4,05	114,200	114,400	80	41	3,15
106,800	107,000	80	48	3,67	114,400	114,600	80	44	3,38
107,000	107,200	80	33	2,56	114,600	114,800	80	43	3,30
107,200	107,400	80	29	2,26	114,800	115,000	80	50	3,82
107,400	107,600	80	45	3,45	115,000	115,200	80	35	2,71
107,600	107,800	80	42	3,23	115,200	115,400	80	47	3,60
107,800	108,000	80	27	2,04	115,400	115,600	80	46	3,53
108,000	108,200	80	28	2,12	115,600	115,800	80	46	3,53
108,200	108,400	80	22	1,67	115,800	116,000	80	25	1,89
108,400	108,600	80	25	1,89	116,000	116,200	80	17	1,30
108,600	108,800	80	32	2,49	116,200	116,400	80	28	2,12
108,800	109,000	80	30	2,34	116,400	116,600	80	34	2,64
109,000	109,200	80	23	1,74	116,600	116,800	80	41	3,15
109,200	109,400	80	21	1,60	116,800	117,000	80	29	2,26
109,400	109,600	80	22	1,67	117,000	117,200	80	23	1,74
109,600	109,800	80	23	1,74	117,200	117,400	80	23	1,74
109,800	110,000	80	27	2,04	117,400	117,600	80	27	2,04
110,000	110,200	80	32	2,49	117,600	117,800	80	31	2,41
110,200	110,400	80	38	2,93	117,800	118,000	80	36	2,78
110,400	110,600	50	44	3,41	118,000	118,200	80	36	2,78
110,600	110,800	80	27	2,04	118,200	118,400	80	42	3,23
110,800	111,000	80	40	3,08	118,400	118,600	80	57	4,42
111,000	111,200	80	32	2,49	118,600	118,800	80	55	4,27
111,200	111,400	80	28	2,12	118,800	119,000	80	38	2,93
111,400	111,600	80	19	1,45	119,000	119,200	80	35	2,71
111,600	111,800	80	17	1,30	119,200	119,400	80	54	4,12
111,800	112,000	80	17	1,30	119,400	119,600	80	63	4,86
112,000	112,200	80	28	2,12	119,600	119,800	80	47	3,60
112,200	112,400	80	38	2,93	119,800	120,000	80	48	3,67
112,400	112,600	80	30	2,34	120,000	120,200	80	59	4,57
112,600	112,800	80	38	2,93	120,200	120,400	80	56	4,34
112,800	113,000	80	30	2,34	120,400	120,600	80	52	3,97
113,000	113,200	80	48	3,67	120,600	120,800	80	45	3,45
113,200	113,400	80	26	1,97	120,800	121,000	80	41	3,15
113,400	113,600	80	36	2,78	121,000	121,200	80	50	3,82
113,600	113,800	80	30	2,34	121,200	121,400	80	66	5,08
113,800	114,000	80	37	2,86	121,400	121,600	80	57	4,42

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
121,600	121,800	80	55	4,27	129,200	129,400	80	45	3,45
121,800	122,000	80	37	2,86	129,400	129,600	80	35	2,71
122,000	122,200	80	40	3,08	129,600	129,800	80	40	3,08
122,200	122,400	80	63	4,86	129,800	130,000	80	33	2,56
122,400	122,600	80	54	4,12	130,000	130,200	80	42	3,23
122,600	122,800	80	46	3,53	130,200	130,400	80	49	3,75
122,800	123,000	80	32	2,49	130,400	130,600	80	40	3,08
123,000	123,200	80	32	2,49	130,600	130,800	80	40	3,08
123,200	123,400	80	37	2,86	130,800	131,000	80	41	3,15
123,400	123,600	80	32	2,49	131,000	131,200	80	31	2,41
123,600	123,800	80	31	2,41	131,200	131,400	80	30	2,34
123,800	124,000	80	31	2,41	131,400	131,600	80	39	3,01
124,000	124,200	80	28	2,19	131,600	131,800	80	38	2,93
124,200	124,400	80	22	1,67	131,800	132,000	80	36	2,78
124,400	124,600	80	23	1,74	132,000	132,200	80	32	2,49
124,600	124,800	80	21	1,60	132,200	132,400	80	31	2,41
124,800	125,000	80	23	1,74	132,400	132,600	80	30	2,34
125,000	125,200	80	28	2,12	132,600	132,800	80	31	2,41
125,200	125,400	80	21	1,60	132,800	133,000	80	32	2,49
125,400	125,600	80	22	1,67	133,000	133,200	80	34	2,64
125,600	125,800	80	21	1,60	133,200	133,400	80	33	2,56
125,800	126,000	80	34	2,64	133,400	133,600	80	43	3,30
126,000	126,200	80	31	2,41	133,600	133,800	80	55	4,27
126,200	126,400	30	30	2,29	133,800	134,000	80	56	4,34
126,400	126,600	30	33	2,57	134,000	134,200	80	45	3,45
126,600	126,800	50	44	3,36	134,200	134,400	80	49	3,75
126,800	127,000	50	44	3,36	134,400	134,600	80	43	3,30
127,000	127,200	50	51	3,93	134,600	134,800	80	50	3,82
127,200	127,400	50	32	2,49	134,800	135,000	80	40	3,08
127,400	127,600	80	25	1,89	135,000	135,200	80	24	1,82
127,600	127,800	80	28	2,19	135,200	135,400	80	28	2,12
127,800	128,000	80	32	2,49	135,400	135,600	80	37	2,86
128,000	128,200	80	27	2,04	135,600	135,800	80	24	1,82
128,200	128,400	80	31	2,41	135,800	136,000	80	35	2,71
128,400	128,600	80	36	2,78	136,000	136,200	80	32	2,49
128,600	128,800	80	36	2,78	136,200	136,400	80	37	2,86
128,800	129,000	80	42	3,23	136,400	136,600	80	28	2,12
129,000	129,200	80	28	2,12	136,600	136,800	80	23	1,74

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
136,800	137,000	80	28		2,12	144,400	144,600	80	
137,000	137,200	50	29	2,20	144,600	144,800	80	17	1,30
137,200	137,400	80	20	1,52	144,800	145,000	50	20	1,57
137,400	137,600	80	30	2,34	145,000	145,200	30	22	1,72
137,600	137,800	80	23	1,74	145,200	145,400	80	17	1,30
137,800	138,000	80	33	2,56	145,400	145,600	80	20	1,52
138,000	138,200	80	25	1,89	145,600	145,800	80	28	2,12
138,200	138,400	80	28	2,19	145,800	146,000	80	23	1,74
138,400	138,600	80	28	2,12	146,000	146,200	80	23	1,74
138,600	138,800	80	28	2,12	146,200	146,400	80	21	1,60
138,800	139,000	80	29	2,26	146,400	146,600	80	18	1,37
139,000	139,200	80	24	1,82	146,600	146,800	80	31	2,41
139,200	139,400	80	26	1,97	146,800	147,000	80	33	2,56
139,400	139,600	80	23	1,74	147,000	147,200	80	25	1,89
139,600	139,800	80	27	2,04	147,200	147,400	80	28	2,19
139,800	140,000	80	25	1,89	147,400	147,600	80	31	2,41
140,000	140,200	80	24	1,82	147,600	147,800	80	24	1,82
140,200	140,400	80	25	1,89	147,800	148,000	80	23	1,74
140,400	140,600	80	28	2,12	148,000	148,200	80	18	1,37
140,600	140,800	80	24	1,82	148,200	148,400	80	23	1,74
140,800	141,000	80	30	2,34	148,400	148,600	80	31	2,41
141,000	141,200	80	30	2,34	148,600	148,800	80	46	3,53
141,200	141,400	80	30	2,34	148,800	149,000	80	38	2,93
141,400	141,600	80	28	2,12	149,000	149,200	80	22	1,67
141,600	141,800	80	24	1,82	149,200	149,400	80	21	1,60
141,800	142,000	80	21	1,60	149,400	149,600	80	20	1,52
142,000	142,200	80	21	1,60	149,600	149,800	80	19	1,45
142,200	142,400	80	27	2,04	149,800	150,000	80	21	1,60
142,400	142,600	80	28	2,19	150,000	150,200	80	21	1,60
142,600	142,800	80	36	2,78	150,200	150,400	80	18	1,37
142,800	143,000	30	44	3,38	150,400	150,600	80	25	1,89
143,000	143,200	30	67	5,13	150,600	150,800	80	22	1,67
143,200	143,400	30	41	3,19	150,800	151,000	80	29	2,26
143,400	143,600	30	53	4,04	151,000	151,200	80	28	2,12
143,600	143,800	30	52	3,99	151,200	151,400	80	29	2,26
143,800	144,000	50	37	2,84	151,400	151,600	80	42	3,23
144,000	144,200	80	23	1,74	151,600	151,800	80	31	2,41
144,200	144,400	80	21	1,60	151,800	152,000	80	26	1,97

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
152,000	152,200	80	29		2,26	159,600	159,800	80	24
152,200	152,400	80	22	1,67	159,800	160,000	80	36	2,78
152,400	152,600	80	23	1,74	160,000	160,200	80	48	3,67
152,600	152,800	80	21	1,60	160,200	160,400	80	33	2,56
152,800	153,000	80	24	1,82	160,400	160,600	80	36	2,78
153,000	153,200	80	28	2,12	160,600	160,800	80	25	1,89
153,200	153,400	80	24	1,82	160,800	161,000	80	27	2,04
153,400	153,600	80	22	1,67	161,000	161,200	80	32	2,49
153,600	153,800	80	24	1,82	161,200	161,400	80	35	2,71
153,800	154,000	80	22	1,67	161,400	161,600	80	34	2,64
154,000	154,200	80	17	1,30	161,600	161,800	80	40	3,08
154,200	154,400	80	19	1,45	161,800	162,000	80	42	3,23
154,400	154,600	80	19	1,45	162,000	162,200	80	40	3,08
154,600	154,800	80	18	1,37	162,200	162,400	80	44	3,38
154,800	155,000	80	19	1,45	162,400	162,600	80	27	2,04
155,000	155,200	80	20	1,52	162,600	162,800	80	38	2,93
155,200	155,400	80	21	1,60	162,800	163,000	80	45	3,45
155,400	155,600	80	21	1,60	163,000	163,200	80	18	1,37
155,600	155,800	80	21	1,60	163,200	163,400	80	25	1,89
155,800	156,000	80	19	1,45	163,400	163,600	80	34	2,64
156,000	156,200	80	22	1,67	163,600	163,800	80	42	3,23
156,200	156,400	80	21	1,60	163,800	164,000	80	51	3,90
156,400	156,600	80	23	1,74	164,000	164,200	80	26	1,97
156,600	156,800	80	26	1,97	164,200	164,400	80	26	1,97
156,800	157,000	80	19	1,45	164,400	164,600	80	28	2,19
157,000	157,200	80	23	1,74	164,600	164,800	80	21	1,60
157,200	157,400	80	19	1,45	164,800	165,000	80	22	1,67
157,400	157,600	80	19	1,45	165,000	165,200	80	22	1,67
157,600	157,800	80	25	1,89	165,200	165,400	80	21	1,60
157,800	158,000	80	24	1,82	165,400	165,600	80	22	1,67
158,000	158,200	80	23	1,74	165,600	165,800	80	25	1,89
158,200	158,400	80	23	1,74	165,800	166,000	80	24	1,82
158,400	158,600	80	24	1,82	166,000	166,200	80	24	1,82
158,600	158,800	80	26	1,97	166,200	166,400	80	25	1,89
158,800	159,000	80	19	1,45	166,400	166,600	80	20	1,52
159,000	159,200	80	29	2,26	166,600	166,800	80	20	1,52
159,200	159,400	80	27	2,04	166,800	167,000	80	23	1,74
159,400	159,600	80	24	1,82	167,000	167,200	80	28	2,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
167,200	167,400	80	26		1,97	174,800	175,000	80	24
167,400	167,600	80	23	1,74	175,000	175,200	80	28	2,19
167,600	167,800	80	26	1,97	175,200	175,400	80	34	2,64
167,800	168,000	80	24	1,82	175,400	175,600	80	38	2,93
168,000	168,200	80	24	1,82	175,600	175,800	80	35	2,71
168,200	168,400	80	29	2,26	175,800	176,000	80	42	3,23
168,400	168,600	80	34	2,64	176,000	176,200	80	34	2,64
168,600	168,800	80	21	1,60	176,200	176,400	80	58	4,49
168,800	169,000	80	22	1,67	176,400	176,600	80	42	3,23
169,000	169,200	80	19	1,45	176,600	176,800	80	36	2,78
169,200	169,400	80	27	2,04	176,800	177,000	80	29	2,26
169,400	169,600	80	26	1,97	177,000	177,200	80	30	2,34
169,600	169,800	80	29	2,26	177,200	177,400	80	34	2,64
169,800	170,000	80	29	2,26	177,400	177,600	80	42	3,23
170,000	170,200	80	24	1,82	177,600	177,800	80	44	3,38
170,200	170,400	80	24	1,82	177,800	178,000	80	34	2,64
170,400	170,600	80	20	1,52	178,000	178,200	80	39	3,01
170,600	170,800	80	29	2,26	178,200	178,400	80	33	2,56
170,800	171,000	80	28	2,19	178,400	178,600	80	36	2,78
171,000	171,200	80	29	2,26	178,600	178,800	80	46	3,53
171,200	171,400	80	22	1,67	178,800	179,000	80	64	4,94
171,400	171,600	80	24	1,82	179,000	179,200	80	50	3,82
171,600	171,800	80	20	1,52	179,200	179,400	80	39	3,01
171,800	172,000	80	22	1,67	179,400	179,600	80	31	2,41
172,000	172,200	80	20	1,52	179,600	179,800	80	28	2,19
172,200	172,400	80	31	2,41	179,800	180,000	80	33	2,56
172,400	172,600	80	19	1,45	180,000	180,200	80	32	2,49
172,600	172,800	80	42	3,23	180,200	180,400	80	38	2,93
172,800	173,000	80	32	2,49	180,400	180,600	80	34	2,64
173,000	173,200	80	20	1,52	180,600	180,800	80	45	3,45
173,200	173,400	80	17	1,30	180,800	181,000	80	50	3,82
173,400	173,600	80	23	1,74	181,000	181,200	80	45	3,45
173,600	173,800	80	25	1,89	181,200	181,400	80	47	3,60
173,800	174,000	80	34	2,64	181,400	181,600	80	34	2,64
174,000	174,200	80	31	2,41	181,600	181,800	80	28	2,19
174,200	174,400	80	29	2,26	181,800	182,000	80	34	2,64
174,400	174,600	80	29	2,26	182,000	182,200	80	32	2,49
174,600	174,800	80	27	2,04	182,200	182,400	80	39	3,01

IRREGULARIDADE LONGITUDINAL - QI										
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007		
INÍCIO km 0,000					FINAL km 773,400					
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI		Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
182,400	182,600	50	33	2,55		190,000	190,200	80	33	2,56
182,600	182,800	50	24	1,86		190,200	190,400	80	57	4,42
182,800	183,000	50	31	2,38		190,400	190,600	80	42	3,23
183,000	183,200	50	32	2,43		190,600	190,800	80	48	3,67
183,200	183,400	50	35	2,66		190,800	191,000	80	47	3,60
183,400	183,600	50	26	1,97		191,000	191,200	80	45	3,45
183,600	183,800	50	28	2,15		191,200	191,400	80	52	3,97
183,800	184,000	80	20	1,52		191,400	191,600	80	43	3,30
184,000	184,200	80	25	1,89		191,600	191,800	80	37	2,86
184,200	184,400	80	29	2,26		191,800	192,000	80	36	2,78
184,400	184,600	80	29	2,26		192,000	192,200	80	38	2,93
184,600	184,800	80	25	1,89		192,200	192,400	80	29	2,26
184,800	185,000	80	33	2,56		192,400	192,600	80	28	2,12
185,000	185,200	80	30	2,34		192,600	192,800	80	31	2,41
185,200	185,400	80	29	2,26		192,800	193,000	80	29	2,26
185,400	185,600	80	25	1,89		193,000	193,200	80	44	3,38
185,600	185,800	80	26	1,97		193,200	193,400	80	43	3,30
185,800	186,000	80	25	1,89		193,400	193,600	80	23	1,74
186,000	186,200	80	28	2,19		193,600	193,800	80	27	2,04
186,200	186,400	80	27	2,04		193,800	194,000	80	40	3,08
186,400	186,600	80	22	1,67		194,000	194,200	80	37	2,86
186,600	186,800	80	29	2,26		194,200	194,400	80	36	2,78
186,800	187,000	80	54	4,12		194,400	194,600	80	39	3,01
187,000	187,200	80	66	5,08		194,600	194,800	80	28	2,19
187,200	187,400	80	45	3,45		194,800	195,000	80	35	2,71
187,400	187,600	80	46	3,53		195,000	195,200	80	48	3,67
187,600	187,800	80	49	3,75		195,200	195,400	80	33	2,56
187,800	188,000	80	41	3,15		195,400	195,600	80	47	3,60
188,000	188,200	80	40	3,08		195,600	195,800	80	50	3,82
188,200	188,400	80	48	3,67		195,800	196,000	80	42	3,23
188,400	188,600	80	52	3,97		196,000	196,200	80	28	2,19
188,600	188,800	80	37	2,86		196,200	196,400	80	30	2,34
188,800	189,000	80	34	2,64		196,400	196,600	80	35	2,71
189,000	189,200	80	41	3,15		196,600	196,800	80	48	3,67
189,200	189,400	80	41	3,15		196,800	197,000	80	27	2,04
189,400	189,600	80	42	3,23		197,000	197,200	80	25	1,89
189,600	189,800	80	49	3,75		197,200	197,400	80	33	2,56
189,800	190,000	80	36	2,78		197,400	197,600	80	30	2,34

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
197,600	197,800	80	31		2,41	205,200	205,400	80	21
197,800	198,000	80	33	2,56	205,400	205,600	80	26	1,97
198,000	198,200	80	33	2,56	205,600	205,800	80	31	2,41
198,200	198,400	80	40	3,08	205,800	206,000	80	25	1,89
198,400	198,600	80	38	2,93	206,000	206,200	80	26	1,97
198,600	198,800	80	28	2,19	206,200	206,400	80	45	3,45
198,800	199,000	80	40	3,08	206,400	206,600	80	33	2,56
199,000	199,200	80	26	1,97	206,600	206,800	80	28	2,19
199,200	199,400	80	29	2,26	206,800	207,000	80	26	1,97
199,400	199,600	80	68	5,23	207,000	207,200	80	25	1,89
199,600	199,800	80	43	3,30	207,200	207,400	80	22	1,67
199,800	200,000	80	45	3,45	207,400	207,600	80	22	1,67
200,000	200,200	80	53	4,05	207,600	207,800	80	21	1,60
200,200	200,400	80	28	2,19	207,800	208,000	80	20	1,52
200,400	200,600	80	26	1,97	208,000	208,200	80	25	1,89
200,600	200,800	80	35	2,71	208,200	208,400	80	30	2,34
200,800	201,000	80	23	1,74	208,400	208,600	80	29	2,26
201,000	201,200	80	28	2,19	208,600	208,800	80	41	3,15
201,200	201,400	80	24	1,82	208,800	209,000	80	30	2,34
201,400	201,600	80	26	1,97	209,000	209,200	80	28	2,12
201,600	201,800	80	28	2,12	209,200	209,400	80	26	1,97
201,800	202,000	80	26	1,97	209,400	209,600	80	25	1,89
202,000	202,200	80	23	1,74	209,600	209,800	80	30	2,34
202,200	202,400	80	39	3,01	209,800	210,000	80	40	3,08
202,400	202,600	80	32	2,49	210,000	210,200	80	39	3,01
202,600	202,800	80	31	2,41	210,200	210,400	80	30	2,34
202,800	203,000	80	43	3,30	210,400	210,600	80	28	2,19
203,000	203,200	80	45	3,45	210,600	210,800	80	29	2,26
203,200	203,400	80	40	3,08	210,800	211,000	80	28	2,19
203,400	203,600	80	29	2,26	211,000	211,200	80	29	2,26
203,600	203,800	80	30	2,34	211,200	211,400	80	24	1,82
203,800	204,000	80	35	2,71	211,400	211,600	80	27	2,04
204,000	204,200	80	46	3,53	211,600	211,800	80	25	1,89
204,200	204,400	80	31	2,41	211,800	212,000	80	28	2,19
204,400	204,600	80	30	2,34	212,000	212,200	80	33	2,56
204,600	204,800	80	30	2,34	212,200	212,400	80	37	2,86
204,800	205,000	80	28	2,19	212,400	212,600	80	28	2,19
205,000	205,200	80	24	1,82	212,600	212,800	80	34	2,64

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INICIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
212,800	213,000	80	27	2,04	220,400	220,600	80	27	2,04
213,000	213,200	80	31	2,41	220,600	220,800	80	27	2,04
213,200	213,400	80	37	2,86	220,800	221,000	80	21	1,60
213,400	213,600	80	46	3,53	221,000	221,200	80	22	1,67
213,600	213,800	80	50	3,82	221,200	221,400	80	22	1,67
213,800	214,000	80	54	4,12	221,400	221,600	80	25	1,89
214,000	214,200	80	48	3,67	221,600	221,800	80	24	1,82
214,200	214,400	80	47	3,60	221,800	222,000	80	22	1,67
214,400	214,600	80	31	2,41	222,000	222,200	50	29	2,26
214,600	214,800	80	29	2,26	222,200	222,400	50	37	2,84
214,800	215,000	80	34	2,64	222,400	222,600	50	38	2,95
215,000	215,200	80	40	3,08	222,600	222,800	50	38	2,89
215,200	215,400	80	52	3,97	222,800	223,000	50	31	2,38
215,400	215,600	80	28	2,19	223,000	223,200	50	35	2,72
215,600	215,800	80	30	2,34	223,200	223,400	50	39	3,01
215,800	216,000	80	33	2,56	223,400	223,600	30	34	2,62
216,000	216,200	80	32	2,49	223,600	223,800	30	30	2,34
216,200	216,400	80	33	2,56	223,800	224,000	50	39	3,01
216,400	216,600	80	29	2,26	224,000	224,200	50	37	2,84
216,600	216,800	80	33	2,56	224,200	224,400	50	38	2,89
216,800	217,000	80	39	3,01	224,400	224,600	50	41	3,12
217,000	217,200	80	34	2,64	224,600	224,800	50	40	3,07
217,200	217,400	80	33	2,56	224,800	225,000	50	41	3,12
217,400	217,600	80	33	2,56	225,000	225,200	30	32	2,48
217,600	217,800	80	45	3,45	225,200	225,400	30	32	2,43
217,800	218,000	80	39	3,01	225,400	225,600	30	33	2,53
218,000	218,200	80	31	2,41	225,600	225,800	30	30	2,29
218,200	218,400	80	28	2,19	225,800	226,000	30	25	1,91
218,400	218,600	80	31	2,41	226,000	226,200	30	27	2,10
218,600	218,800	80	33	2,56	226,200	226,400	30	27	2,10
218,800	219,000	80	27	2,04	226,400	226,600	80	29	2,26
219,000	219,200	80	33	2,56	226,600	226,800	80	27	2,04
219,200	219,400	80	34	2,64	226,800	227,000	80	39	3,01
219,400	219,600	80	30	2,34	227,000	227,200	80	36	2,78
219,600	219,800	80	30	2,34	227,200	227,400	80	35	2,71
219,800	220,000	80	41	3,15	227,400	227,600	80	34	2,64
220,000	220,200	80	28	2,12	227,600	227,800	80	34	2,64
220,200	220,400	80	21	1,60	227,800	228,000	80	28	2,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
228,000	228,200	80	26		1,97	235,600	235,800	80	
228,200	228,400	80	31	2,41	235,800	236,000	80	30	2,34
228,400	228,600	80	30	2,34	236,000	236,200	80	35	2,71
228,600	228,800	80	31	2,41	236,200	236,400	80	34	2,64
228,800	229,000	80	27	2,04	236,400	236,600	80	34	2,64
229,000	229,200	80	27	2,04	236,600	236,800	80	28	2,12
229,200	229,400	80	24	1,82	236,800	237,000	80	28	2,12
229,400	229,600	80	27	2,04	237,000	237,200	80	28	2,12
229,600	229,800	80	25	1,89	237,200	237,400	80	32	2,49
229,800	230,000	80	23	1,74	237,400	237,600	80	36	2,78
230,000	230,200	80	46	3,53	237,600	237,800	80	29	2,26
230,200	230,400	80	39	3,01	237,800	238,000	80	32	2,49
230,400	230,600	80	39	3,01	238,000	238,200	80	49	3,75
230,600	230,800	80	45	3,45	238,200	238,400	80	27	2,04
230,800	231,000	80	36	2,78	238,400	238,600	80	24	1,82
231,000	231,200	80	35	2,71	238,600	238,800	80	28	2,19
231,200	231,400	80	36	2,78	238,800	239,000	80	29	2,26
231,400	231,600	80	39	3,01	239,000	239,200	80	28	2,12
231,600	231,800	80	39	3,01	239,200	239,400	80	29	2,26
231,800	232,000	80	41	3,15	239,400	239,600	80	36	2,78
232,000	232,200	80	35	2,71	239,600	239,800	80	27	2,04
232,200	232,400	80	34	2,64	239,800	240,000	80	20	1,52
232,400	232,600	80	37	2,86	240,000	240,200	80	17	1,30
232,600	232,800	80	32	2,49	240,200	240,400	80	30	2,34
232,800	233,000	80	39	3,01	240,400	240,600	80	26	1,97
233,000	233,200	80	30	2,34	240,600	240,800	80	27	2,04
233,200	233,400	80	36	2,78	240,800	241,000	80	25	1,89
233,400	233,600	80	42	3,23	241,000	241,200	80	23	1,74
233,600	233,800	80	37	2,86	241,200	241,400	80	26	1,97
233,800	234,000	80	45	3,45	241,400	241,600	80	28	2,12
234,000	234,200	80	38	2,93	241,600	241,800	80	22	1,67
234,200	234,400	80	31	2,41	241,800	242,000	80	46	3,53
234,400	234,600	80	30	2,34	242,000	242,200	80	28	2,19
234,600	234,800	80	33	2,56	242,200	242,400	80	26	1,97
234,800	235,000	80	35	2,71	242,400	242,600	80	30	2,34
235,000	235,200	80	26	1,97	242,600	242,800	80	33	2,56
235,200	235,400	80	28	2,19	242,800	243,000	80	35	2,71
235,400	235,600	80	29	2,26	243,000	243,200	80	33	2,56

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INICIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
243,200	243,400	80	49	3,75	250,800	251,000	80	37	2,86
243,400	243,600	80	33	2,56	251,000	251,200	80	46	3,53
243,600	243,800	80	67	5,16	251,200	251,400	80	43	3,30
243,800	244,000	80	35	2,71	251,400	251,600	80	44	3,38
244,000	244,200	80	43	3,30	251,600	251,800	80	39	3,01
244,200	244,400	80	49	3,75	251,800	252,000	80	47	3,60
244,400	244,600	80	44	3,38	252,000	252,200	80	40	3,08
244,600	244,800	80	27	2,04	252,200	252,400	80	33	2,56
244,800	245,000	80	28	2,19	252,400	252,600	80	30	2,34
245,000	245,200	80	25	1,89	252,600	252,800	80	28	2,19
245,200	245,400	80	39	3,01	252,800	253,000	80	38	2,93
245,400	245,600	80	59	4,57	253,000	253,200	80	42	3,23
245,600	245,800	80	54	4,12	253,200	253,400	80	35	2,71
245,800	246,000	80	30	2,34	253,400	253,600	80	34	2,64
246,000	246,200	80	55	4,27	253,600	253,800	80	28	2,19
246,200	246,400	80	61	4,71	253,800	254,000	80	28	2,12
246,400	246,600	80	29	2,26	254,000	254,200	80	32	2,49
246,600	246,800	80	26	1,97	254,200	254,400	80	31	2,41
246,800	247,000	80	34	2,64	254,400	254,600	80	28	2,19
247,000	247,200	80	47	3,60	254,600	254,800	80	46	3,53
247,200	247,400	80	46	3,53	254,800	255,000	80	42	3,23
247,400	247,600	80	48	3,67	255,000	255,200	80	53	4,05
247,600	247,800	80	56	4,34	255,200	255,400	80	52	3,97
247,800	248,000	80	42	3,23	255,400	255,600	80	43	3,30
248,000	248,200	80	25	1,89	255,600	255,800	80	47	3,60
248,200	248,400	80	28	2,12	255,800	256,000	80	67	5,16
248,400	248,600	80	22	1,67	256,000	256,200	80	62	4,79
248,600	248,800	80	22	1,67	256,200	256,400	80	52	3,97
248,800	249,000	80	25	1,89	256,400	256,600	80	62	4,79
249,000	249,200	80	26	1,97	256,600	256,800	80	64	4,94
249,200	249,400	80	22	1,67	256,800	257,000	80	58	4,49
249,400	249,600	80	29	2,26	257,000	257,200	80	50	3,82
249,600	249,800	80	50	3,82	257,200	257,400	80	55	4,27
249,800	250,000	80	53	4,05	257,400	257,600	80	62	4,79
250,000	250,200	80	48	3,67	257,600	257,800	80	59	4,57
250,200	250,400	80	28	2,19	257,800	258,000	80	67	5,16
250,400	250,600	80	22	1,67	258,000	258,200	80	54	4,12
250,600	250,800	80	38	2,93	258,200	258,400	80	66	5,08

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
258,400	258,600	80	57		4,42	266,000	266,200	80	30
258,600	258,800	80	60	4,64	266,200	266,400	80	31	2,41
258,800	259,000	80	55	4,27	266,400	266,600	80	27	2,04
259,000	259,200	80	60	4,64	266,600	266,800	80	50	3,82
259,200	259,400	80	63	4,86	266,800	267,000	80	70	5,38
259,400	259,600	80	69	5,31	267,000	267,200	80	72	5,53
259,600	259,800	80	80	6,12	267,200	267,400	80	48	3,67
259,800	260,000	80	69	5,31	267,400	267,600	80	62	4,79
260,000	260,200	80	73	5,60	267,600	267,800	80	62	4,79
260,200	260,400	80	66	5,08	267,800	268,000	80	55	4,19
260,400	260,600	80	58	4,49	268,000	268,200	80	51	3,90
260,600	260,800	80	71	5,46	268,200	268,400	80	41	3,15
260,800	261,000	80	55	4,19	268,400	268,600	80	74	5,68
261,000	261,200	80	51	3,90	268,600	268,800	80	63	4,86
261,200	261,400	80	43	3,30	268,800	269,000	80	72	5,53
261,400	261,600	80	44	3,38	269,000	269,200	80	76	5,83
261,600	261,800	80	45	3,45	269,200	269,400	80	65	5,01
261,800	262,000	80	57	4,42	269,400	269,600	80	38	2,93
262,000	262,200	80	55	4,27	269,600	269,800	80	55	4,27
262,200	262,400	80	56	4,34	269,800	270,000	80	32	2,49
262,400	262,600	80	50	3,82	270,000	270,200	80	21	1,60
262,600	262,800	80	56	4,34	270,200	270,400	80	24	1,82
262,800	263,000	80	38	2,93	270,400	270,600	80	21	1,60
263,000	263,200	80	37	2,86	270,600	270,800	80	20	1,52
263,200	263,400	80	43	3,30	270,800	271,000	80	27	2,04
263,400	263,600	80	48	3,67	271,000	271,200	80	26	1,97
263,600	263,800	80	57	4,42	271,200	271,400	80	22	1,67
263,800	264,000	80	69	5,31	271,400	271,600	80	20	1,52
264,000	264,200	80	62	4,79	271,600	271,800	50	20	1,57
264,200	264,400	80	94	7,24	271,800	272,000	50	22	1,68
264,400	264,600	80	61	4,71	272,000	272,200	50	22	1,68
264,600	264,800	80	63	4,86	272,200	272,400	30	23	1,77
264,800	265,000	80	61	4,71	272,400	272,600	50	20	1,51
265,000	265,200	80	40	3,08	272,600	272,800	50	20	1,57
265,200	265,400	80	41	3,15	272,800	273,000	50	56	4,28
265,400	265,600	80	43	3,30	273,000	273,200	50	64	4,91
265,600	265,800	80	48	3,67	273,200	273,400	50	32	2,43
265,800	266,000	80	30	2,34	273,400	273,600	80	19	1,45

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
273,600	273,800	80	28	2,19	281,200	281,400	80	22	1,67
273,800	274,000	30	27	2,10	281,400	281,600	80	19	1,45
274,000	274,200	30	26	2,01	281,600	281,800	80	27	2,04
274,200	274,400	30	37	2,86	281,800	282,000	80	25	1,89
274,400	274,600	50	23	1,80	282,000	282,200	80	23	1,74
274,600	274,800	50	23	1,74	282,200	282,400	80	18	1,37
274,800	275,000	50	21	1,63	282,400	282,600	80	18	1,37
275,000	275,200	30	27	2,05	282,600	282,800	80	18	1,37
275,200	275,400	30	29	2,20	282,800	283,000	80	21	1,60
275,400	275,600	30	21	1,58	283,000	283,200	80	41	3,15
275,600	275,800	50	23	1,80	283,200	283,400	80	47	3,60
275,800	276,000	50	31	2,38	283,400	283,600	80	54	4,12
276,000	276,200	50	32	2,49	283,600	283,800	80	47	3,60
276,200	276,400	80	27	2,04	283,800	284,000	80	48	3,67
276,400	276,600	80	29	2,26	284,000	284,200	80	53	4,05
276,600	276,800	80	35	2,71	284,200	284,400	80	55	4,27
276,800	277,000	80	33	2,56	284,400	284,600	50	66	5,08
277,000	277,200	80	28	2,19	284,600	284,800	50	71	5,43
277,200	277,400	80	30	2,34	284,800	285,000	50	48	3,70
277,400	277,600	80	24	1,82	285,000	285,200	80	28	2,19
277,600	277,800	80	28	2,19	285,200	285,400	80	34	2,64
277,800	278,000	80	26	1,97	285,400	285,600	80	35	2,71
278,000	278,200	80	28	2,19	285,600	285,800	80	30	2,34
278,200	278,400	80	31	2,41	285,800	286,000	80	34	2,64
278,400	278,600	80	29	2,26	286,000	286,200	80	33	2,56
278,600	278,800	80	32	2,49	286,200	286,400	80	21	1,60
278,800	279,000	80	28	2,12	286,400	286,600	80	41	3,15
279,000	279,200	80	34	2,64	286,600	286,800	80	40	3,08
279,200	279,400	80	34	2,64	286,800	287,000	80	33	2,56
279,400	279,600	80	33	2,56	287,000	287,200	80	25	1,89
279,600	279,800	80	23	1,74	287,200	287,400	80	28	2,12
279,800	280,000	80	25	1,89	287,400	287,600	80	29	2,26
280,000	280,200	80	25	1,89	287,600	287,800	80	30	2,34
280,200	280,400	80	24	1,82	287,800	288,000	80	27	2,04
280,400	280,600	80	24	1,82	288,000	288,200	80	34	2,64
280,600	280,800	80	22	1,67	288,200	288,400	80	34	2,64
280,800	281,000	80	19	1,45	288,400	288,600	80	37	2,86
281,000	281,200	80	21	1,60	288,600	288,800	80	60	4,64

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
288,800	289,000	80	96		7,39	296,400	296,600	80	
289,000	289,200	80	70	5,38	296,600	296,800	80	34	2,64
289,200	289,400	80	58	4,49	296,800	297,000	80	31	2,41
289,400	289,600	80	65	5,01	297,000	297,200	80	28	2,19
289,600	289,800	80	61	4,71	297,200	297,400	80	28	2,12
289,800	290,000	80	75	5,75	297,400	297,600	80	33	2,56
290,000	290,200	80	56	4,34	297,600	297,800	80	29	2,26
290,200	290,400	80	58	4,49	297,800	298,000	80	32	2,49
290,400	290,600	80	54	4,12	298,000	298,200	80	37	2,86
290,600	290,800	80	43	3,30	298,200	298,400	80	37	2,86
290,800	291,000	80	76	5,83	298,400	298,600	80	28	2,12
291,000	291,200	80	55	4,19	298,600	298,800	80	38	2,93
291,200	291,400	50	55	4,22	298,800	299,000	80	28	2,12
291,400	291,600	80	61	4,71	299,000	299,200	80	36	2,78
291,600	291,800	80	74	5,68	299,200	299,400	80	28	2,12
291,800	292,000	80	30	2,34	299,400	299,600	80	41	3,15
292,000	292,200	80	41	3,15	299,600	299,800	50	40	3,07
292,200	292,400	80	60	4,64	299,800	300,000	50	36	2,78
292,400	292,600	80	62	4,79	300,000	300,200	80	29	2,26
292,600	292,800	80	70	5,38	300,200	300,400	80	38	2,93
292,800	293,000	80	36	2,78	300,400	300,600	80	31	2,41
293,000	293,200	80	33	2,56	300,600	300,800	80	36	2,78
293,200	293,400	80	30	2,34	300,800	301,000	80	32	2,49
293,400	293,600	80	41	3,15	301,000	301,200	80	27	2,04
293,600	293,800	80	39	3,01	301,200	301,400	80	29	2,26
293,800	294,000	80	37	2,86	301,400	301,600	80	35	2,71
294,000	294,200	80	30	2,34	301,600	301,800	80	30	2,34
294,200	294,400	80	32	2,49	301,800	302,000	80	29	2,26
294,400	294,600	80	29	2,26	302,000	302,200	80	33	2,56
294,600	294,800	80	28	2,12	302,200	302,400	80	36	2,78
294,800	295,000	50	31	2,38	302,400	302,600	80	29	2,26
295,000	295,200	30	39	3,00	302,600	302,800	80	28	2,19
295,200	295,400	50	35	2,66	302,800	303,000	80	28	2,12
295,400	295,600	80	30	2,34	303,000	303,200	80	25	1,89
295,600	295,800	80	31	2,41	303,200	303,400	80	28	2,19
295,800	296,000	80	38	2,93	303,400	303,600	80	25	1,89
296,000	296,200	80	56	4,34	303,600	303,800	80	28	2,19
296,200	296,400	80	34	2,64	303,800	304,000	80	27	2,04

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
304,000	304,200	80	28		2,12	311,600	311,800	80	33
304,200	304,400	80	28	2,19	311,800	312,000	80	33	2,56
304,400	304,600	80	28	2,12	312,000	312,200	80	32	2,49
304,600	304,800	80	29	2,26	312,200	312,400	80	31	2,41
304,800	305,000	80	25	1,89	312,400	312,600	80	37	2,86
305,000	305,200	80	35	2,71	312,600	312,800	80	33	2,56
305,200	305,400	80	31	2,41	312,800	313,000	80	52	3,97
305,400	305,600	80	28	2,12	313,000	313,200	80	44	3,38
305,600	305,800	80	32	2,49	313,200	313,400	80	39	3,01
305,800	306,000	80	39	3,01	313,400	313,600	80	31	2,41
306,000	306,200	80	28	2,12	313,600	313,800	80	35	2,71
306,200	306,400	80	37	2,86	313,800	314,000	80	34	2,64
306,400	306,600	80	30	2,34	314,000	314,200	80	34	2,64
306,600	306,800	80	33	2,56	314,200	314,400	80	34	2,64
306,800	307,000	80	37	2,86	314,400	314,600	80	28	2,19
307,000	307,200	80	36	2,78	314,600	314,800	80	32	2,49
307,200	307,400	80	34	2,64	314,800	315,000	80	34	2,64
307,400	307,600	80	30	2,34	315,000	315,200	80	36	2,78
307,600	307,800	80	31	2,41	315,200	315,400	80	37	2,86
307,800	308,000	80	30	2,34	315,400	315,600	80	32	2,49
308,000	308,200	80	29	2,26	315,600	315,800	80	28	2,19
308,200	308,400	80	33	2,56	315,800	316,000	80	26	1,97
308,400	308,600	80	31	2,41	316,000	316,200	80	32	2,49
308,600	308,800	80	28	2,19	316,200	316,400	80	32	2,49
308,800	309,000	80	28	2,19	316,400	316,600	80	33	2,56
309,000	309,200	80	32	2,49	316,600	316,800	80	30	2,34
309,200	309,400	80	34	2,64	316,800	317,000	50	34	2,61
309,400	309,600	80	33	2,56	317,000	317,200	50	33	2,55
309,600	309,800	80	32	2,49	317,200	317,400	30	32	2,48
309,800	310,000	80	34	2,64	317,400	317,600	30	29	2,19
310,000	310,200	80	29	2,26	317,600	317,800	30	34	2,62
310,200	310,400	80	32	2,49	317,800	318,000	30	38	2,95
310,400	310,600	80	32	2,49	318,000	318,200	80	41	3,15
310,600	310,800	80	34	2,64	318,200	318,400	80	37	2,86
310,800	311,000	80	38	2,93	318,400	318,600	80	34	2,64
311,000	311,200	80	34	2,64	318,600	318,800	80	31	2,41
311,200	311,400	80	34	2,64	318,800	319,000	80	39	3,01
311,400	311,600	80	32	2,49	319,000	319,200	80	40	3,08

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
319,200	319,400	80	35		2,71	326,800	327,000	80	28
319,400	319,600	80	34	2,64	327,000	327,200	80	28	2,19
319,600	319,800	80	27	2,04	327,200	327,400	80	28	2,12
319,800	320,000	80	37	2,86	327,400	327,600	80	28	2,12
320,000	320,200	80	35	2,71	327,600	327,800	80	36	2,78
320,200	320,400	80	34	2,64	327,800	328,000	80	28	2,19
320,400	320,600	80	28	2,19	328,000	328,200	80	28	2,19
320,600	320,800	80	34	2,64	328,200	328,400	80	28	2,19
320,800	321,000	80	47	3,60	328,400	328,600	80	27	2,04
321,000	321,200	80	39	3,01	328,600	328,800	80	26	1,97
321,200	321,400	80	30	2,34	328,800	329,000	80	28	2,12
321,400	321,600	80	37	2,86	329,000	329,200	80	36	2,78
321,600	321,800	80	45	3,45	329,200	329,400	80	31	2,41
321,800	322,000	80	31	2,41	329,400	329,600	80	39	3,01
322,000	322,200	80	29	2,26	329,600	329,800	80	42	3,23
322,200	322,400	80	32	2,49	329,800	330,000	80	39	3,01
322,400	322,600	80	38	2,93	330,000	330,200	80	38	2,93
322,600	322,800	80	49	3,75	330,200	330,400	80	46	3,53
322,800	323,000	80	31	2,41	330,400	330,600	80	46	3,53
323,000	323,200	80	28	2,12	330,600	330,800	80	35	2,71
323,200	323,400	80	32	2,49	330,800	331,000	80	37	2,86
323,400	323,600	80	31	2,41	331,000	331,200	80	42	3,23
323,600	323,800	80	28	2,19	331,200	331,400	80	40	3,08
323,800	324,000	80	32	2,49	331,400	331,600	80	31	2,41
324,000	324,200	80	33	2,56	331,600	331,800	80	29	2,26
324,200	324,400	80	28	2,19	331,800	332,000	80	38	2,93
324,400	324,600	80	29	2,26	332,000	332,200	80	33	2,56
324,600	324,800	80	28	2,19	332,200	332,400	80	34	2,64
324,800	325,000	80	29	2,26	332,400	332,600	80	36	2,78
325,000	325,200	80	29	2,26	332,600	332,800	80	35	2,71
325,200	325,400	80	30	2,34	332,800	333,000	80	25	1,89
325,400	325,600	80	33	2,56	333,000	333,200	80	27	2,04
325,600	325,800	80	37	2,86	333,200	333,400	80	24	1,82
325,800	326,000	80	34	2,64	333,400	333,600	80	28	2,12
326,000	326,200	80	37	2,86	333,600	333,800	80	28	2,19
326,200	326,400	80	36	2,78	333,800	334,000	80	23	1,74
326,400	326,600	80	37	2,86	334,000	334,200	80	26	1,97
326,600	326,800	80	28	2,19	334,200	334,400	80	28	2,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
334,400	334,600	80	33		2,56	342,000	342,200	80	
334,600	334,800	80	29	2,26	342,200	342,400	80	30	2,34
334,800	335,000	80	31	2,41	342,400	342,600	80	29	2,26
335,000	335,200	80	27	2,04	342,600	342,800	80	26	1,97
335,200	335,400	80	30	2,34	342,800	343,000	80	29	2,26
335,400	335,600	80	34	2,64	343,000	343,200	80	30	2,34
335,600	335,800	80	28	2,19	343,200	343,400	80	29	2,26
335,800	336,000	80	25	1,89	343,400	343,600	80	27	2,04
336,000	336,200	80	22	1,67	343,600	343,800	80	21	1,60
336,200	336,400	80	24	1,82	343,800	344,000	80	24	1,82
336,400	336,600	80	23	1,74	344,000	344,200	80	22	1,67
336,600	336,800	80	28	2,19	344,200	344,400	80	25	1,89
336,800	337,000	80	25	1,89	344,400	344,600	80	26	1,97
337,000	337,200	80	25	1,89	344,600	344,800	80	26	1,97
337,200	337,400	80	27	2,04	344,800	345,000	80	27	2,04
337,400	337,600	80	23	1,74	345,000	345,200	80	28	2,12
337,600	337,800	80	23	1,74	345,200	345,400	80	22	1,67
337,800	338,000	80	27	2,04	345,400	345,600	80	28	2,12
338,000	338,200	80	30	2,34	345,600	345,800	80	33	2,56
338,200	338,400	80	29	2,26	345,800	346,000	80	29	2,26
338,400	338,600	80	37	2,86	346,000	346,200	80	28	2,12
338,600	338,800	80	34	2,64	346,200	346,400	80	31	2,41
338,800	339,000	80	31	2,41	346,400	346,600	80	29	2,26
339,000	339,200	80	30	2,34	346,600	346,800	80	29	2,26
339,200	339,400	80	31	2,41	346,800	347,000	80	33	2,56
339,400	339,600	80	34	2,64	347,000	347,200	80	33	2,56
339,600	339,800	80	28	2,19	347,200	347,400	80	33	2,56
339,800	340,000	80	28	2,19	347,400	347,600	80	35	2,71
340,000	340,200	80	45	3,45	347,600	347,800	80	31	2,41
340,200	340,400	80	39	3,01	347,800	348,000	80	33	2,56
340,400	340,600	80	41	3,15	348,000	348,200	80	34	2,64
340,600	340,800	80	30	2,34	348,200	348,400	80	36	2,78
340,800	341,000	80	33	2,56	348,400	348,600	80	29	2,26
341,000	341,200	80	35	2,71	348,600	348,800	80	33	2,56
341,200	341,400	80	37	2,86	348,800	349,000	80	30	2,34
341,400	341,600	80	32	2,49	349,000	349,200	80	35	2,71
341,600	341,800	80	33	2,56	349,200	349,400	80	35	2,71
341,800	342,000	80	28	2,19	349,400	349,600	80	39	3,01

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
349,600	349,800	80	30	2,34	357,200	357,400	80	82	6,27
349,800	350,000	80	33	2,56	357,400	357,600	80	73	5,60
350,000	350,200	80	32	2,49	357,600	357,800	80	72	5,53
350,200	350,400	80	32	2,49	357,800	358,000	80	51	3,90
350,400	350,600	80	33	2,56	358,000	358,200	80	44	3,38
350,600	350,800	80	33	2,56	358,200	358,400	80	43	3,30
350,800	351,000	80	32	2,49	358,400	358,600	80	37	2,86
351,000	351,200	80	34	2,64	358,600	358,800	80	42	3,23
351,200	351,400	80	32	2,49	358,800	359,000	80	30	2,34
351,400	351,600	80	35	2,71	359,000	359,200	80	51	3,90
351,600	351,800	80	34	2,64	359,200	359,400	80	40	3,08
351,800	352,000	80	32	2,49	359,400	359,600	80	34	2,64
352,000	352,200	80	35	2,71	359,600	359,800	80	36	2,78
352,200	352,400	80	34	2,64	359,800	360,000	80	33	2,56
352,400	352,600	80	35	2,71	360,000	360,200	80	33	2,56
352,600	352,800	80	31	2,41	360,200	360,400	80	28	2,19
352,800	353,000	80	31	2,41	360,400	360,600	80	30	2,34
353,000	353,200	80	35	2,71	360,600	360,800	80	36	2,78
353,200	353,400	80	34	2,64	360,800	361,000	80	33	2,56
353,400	353,600	80	39	3,01	361,000	361,200	80	35	2,71
353,600	353,800	80	30	2,34	361,200	361,400	80	31	2,41
353,800	354,000	80	28	2,19	361,400	361,600	80	27	2,04
354,000	354,200	80	35	2,71	361,600	361,800	80	36	2,78
354,200	354,400	80	30	2,34	361,800	362,000	80	32	2,49
354,400	354,600	80	38	2,93	362,000	362,200	80	32	2,49
354,600	354,800	80	35	2,71	362,200	362,400	80	31	2,41
354,800	355,000	80	37	2,86	362,400	362,600	80	29	2,26
355,000	355,200	80	42	3,23	362,600	362,800	80	30	2,34
355,200	355,400	80	62	4,79	362,800	363,000	80	28	2,19
355,400	355,600	80	77	5,90	363,000	363,200	80	31	2,41
355,600	355,800	80	52	3,97	363,200	363,400	80	31	2,41
355,800	356,000	80	45	3,45	363,400	363,600	80	34	2,64
356,000	356,200	80	76	5,83	363,600	363,800	80	34	2,64
356,200	356,400	80	57	4,42	363,800	364,000	80	32	2,49
356,400	356,600	80	48	3,67	364,000	364,200	80	44	3,38
356,600	356,800	80	73	5,60	364,200	364,400	80	38	2,93
356,800	357,000	80	60	4,64	364,400	364,600	80	49	3,75
357,000	357,200	80	71	5,46	364,600	364,800	80	47	3,60

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
364,800	365,000	80	39	3,01	372,400	372,600	80	28	2,12
365,000	365,200	80	33	2,56	372,600	372,800	80	30	2,34
365,200	365,400	80	30	2,34	372,800	373,000	80	32	2,49
365,400	365,600	80	33	2,56	373,000	373,200	80	31	2,41
365,600	365,800	80	52	3,97	373,200	373,400	80	30	2,34
365,800	366,000	80	46	3,53	373,400	373,600	80	30	2,34
366,000	366,200	80	37	2,86	373,600	373,800	80	35	2,71
366,200	366,400	80	34	2,64	373,800	374,000	80	42	3,23
366,400	366,600	80	30	2,34	374,000	374,200	80	40	3,08
366,600	366,800	80	33	2,56	374,200	374,400	80	35	2,71
366,800	367,000	80	29	2,26	374,400	374,600	80	32	2,49
367,000	367,200	80	29	2,26	374,600	374,800	80	38	2,93
367,200	367,400	80	35	2,71	374,800	375,000	80	66	5,08
367,400	367,600	80	43	3,30	375,000	375,200	80	49	3,75
367,600	367,800	80	41	3,15	375,200	375,400	80	59	4,57
367,800	368,000	80	39	3,01	375,400	375,600	80	47	3,60
368,000	368,200	80	38	2,93	375,600	375,800	80	45	3,45
368,200	368,400	80	33	2,56	375,800	376,000	80	47	3,60
368,400	368,600	80	31	2,41	376,000	376,200	80	55	4,27
368,600	368,800	80	27	2,04	376,200	376,400	80	35	2,71
368,800	369,000	80	36	2,78	376,400	376,600	80	30	2,34
369,000	369,200	80	29	2,26	376,600	376,800	80	43	3,30
369,200	369,400	80	34	2,64	376,800	377,000	80	52	3,97
369,400	369,600	80	29	2,26	377,000	377,200	80	38	2,93
369,600	369,800	80	29	2,26	377,200	377,400	80	50	3,82
369,800	370,000	80	26	1,97	377,400	377,600	80	43	3,30
370,000	370,200	80	29	2,26	377,600	377,800	80	32	2,49
370,200	370,400	80	28	2,19	377,800	378,000	80	38	2,93
370,400	370,600	80	40	3,08	378,000	378,200	80	49	3,75
370,600	370,800	80	29	2,26	378,200	378,400	80	41	3,15
370,800	371,000	80	40	3,08	378,400	378,600	80	55	4,27
371,000	371,200	80	47	3,60	378,600	378,800	80	55	4,27
371,200	371,400	80	45	3,45	378,800	379,000	80	59	4,57
371,400	371,600	80	43	3,30	379,000	379,200	80	78	5,98
371,600	371,800	80	38	2,93	379,200	379,400	80	83	6,42
371,800	372,000	80	31	2,41	379,400	379,600	80	83	6,42
372,000	372,200	80	37	2,86	379,600	379,800	80	93	7,16
372,200	372,400	80	32	2,49	379,800	380,000	80	70	5,38

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
380,000	380,200	80	63	4,86	387,600	387,800	80	51	3,90
380,200	380,400	80	43	3,30	387,800	388,000	80	35	2,71
380,400	380,600	80	39	3,01	388,000	388,200	80	44	3,38
380,600	380,800	80	50	3,82	388,200	388,400	80	45	3,45
380,800	381,000	80	90	6,94	388,400	388,600	80	41	3,15
381,000	381,200	80	90	6,94	388,600	388,800	80	68	5,23
381,200	381,400	80	45	3,45	388,800	389,000	80	45	3,45
381,400	381,600	80	37	2,86	389,000	389,200	80	45	3,45
381,600	381,800	80	64	4,94	389,200	389,400	80	52	3,97
381,800	382,000	80	56	4,34	389,400	389,600	80	79	6,05
382,000	382,200	80	83	6,35	389,600	389,800	80	66	5,08
382,200	382,400	80	81	6,20	389,800	390,000	80	62	4,79
382,400	382,600	80	82	6,27	390,000	390,200	80	105	8,05
382,600	382,800	80	83	6,35	390,200	390,400	80	83	6,35
382,800	383,000	80	71	5,46	390,400	390,600	80	73	5,60
383,000	383,200	80	83	6,35	390,600	390,800	80	42	3,23
383,200	383,400	80	68	5,23	390,800	391,000	80	41	3,15
383,400	383,600	80	44	3,38	391,000	391,200	80	52	3,97
383,600	383,800	80	52	3,97	391,200	391,400	80	70	5,38
383,800	384,000	80	56	4,34	391,400	391,600	80	50	3,82
384,000	384,200	80	55	4,27	391,600	391,800	80	56	4,34
384,200	384,400	80	74	5,68	391,800	392,000	80	45	3,45
384,400	384,600	80	86	6,64	392,000	392,200	80	57	4,42
384,600	384,800	80	31	2,41	392,200	392,400	80	78	5,98
384,800	385,000	80	34	2,64	392,400	392,600	80	55	4,19
385,000	385,200	80	53	4,05	392,600	392,800	80	51	3,90
385,200	385,400	80	61	4,71	392,800	393,000	80	47	3,60
385,400	385,600	80	61	4,71	393,000	393,200	80	37	2,86
385,600	385,800	80	56	4,34	393,200	393,400	80	33	2,56
385,800	386,000	80	43	3,30	393,400	393,600	80	32	2,49
386,000	386,200	80	46	3,53	393,600	393,800	80	29	2,26
386,200	386,400	80	58	4,49	393,800	394,000	80	30	2,34
386,400	386,600	80	65	5,01	394,000	394,200	80	29	2,26
386,600	386,800	80	63	4,86	394,200	394,400	80	32	2,49
386,800	387,000	80	87	6,72	394,400	394,600	80	35	2,71
387,000	387,200	80	73	5,60	394,600	394,800	80	38	2,93
387,200	387,400	80	71	5,46	394,800	395,000	80	38	2,93
387,400	387,600	80	55	4,27	395,000	395,200	80	32	2,49

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INICIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
395,200	395,400	80	31	2,41	402,800	403,000	80	65	5,01
395,400	395,600	80	37	2,86	403,000	403,200	80	67	5,16
395,600	395,800	80	33	2,56	403,200	403,400	80	74	5,68
395,800	396,000	80	35	2,71	403,400	403,600	80	62	4,79
396,000	396,200	80	37	2,86	403,600	403,800	80	57	4,42
396,200	396,400	80	31	2,41	403,800	404,000	80	65	5,01
396,400	396,600	80	28	2,19	404,000	404,200	80	52	3,97
396,600	396,800	80	29	2,26	404,200	404,400	80	60	4,64
396,800	397,000	80	28	2,12	404,400	404,600	80	67	5,16
397,000	397,200	80	47	3,60	404,600	404,800	80	46	3,53
397,200	397,400	80	35	2,71	404,800	405,000	80	50	3,82
397,400	397,600	80	38	2,93	405,000	405,200	80	61	4,71
397,600	397,800	80	43	3,30	405,200	405,400	80	68	5,23
397,800	398,000	80	37	2,86	405,400	405,600	80	86	6,64
398,000	398,200	80	30	2,34	405,600	405,800	80	86	6,64
398,200	398,400	80	38	2,93	405,800	406,000	80	85	6,57
398,400	398,600	80	32	2,49	406,000	406,200	80	88	6,79
398,600	398,800	80	41	3,15	406,200	406,400	80	82	6,27
398,800	399,000	80	38	2,93	406,400	406,600	80	54	4,12
399,000	399,200	80	40	3,08	406,600	406,800	80	55	4,19
399,200	399,400	80	33	2,56	406,800	407,000	80	29	2,26
399,400	399,600	80	30	2,34	407,000	407,200	80	40	3,08
399,600	399,800	80	30	2,34	407,200	407,400	80	28	2,12
399,800	400,000	80	36	2,78	407,400	407,600	80	36	2,78
400,000	400,200	80	46	3,53	407,600	407,800	80	42	3,23
400,200	400,400	80	67	5,16	407,800	408,000	80	73	5,60
400,400	400,600	80	40	3,08	408,000	408,200	80	40	3,08
400,600	400,800	80	24	1,82	408,200	408,400	80	38	2,93
400,800	401,000	80	28	2,12	408,400	408,600	80	42	3,23
401,000	401,200	80	27	2,04	408,600	408,800	80	31	2,41
401,200	401,400	80	35	2,71	408,800	409,000	80	35	2,71
401,400	401,600	80	36	2,78	409,000	409,200	80	59	4,57
401,600	401,800	80	34	2,64	409,200	409,400	80	49	3,75
401,800	402,000	80	34	2,64	409,400	409,600	80	45	3,45
402,000	402,200	80	42	3,23	409,600	409,800	80	41	3,15
402,200	402,400	80	46	3,53	409,800	410,000	80	41	3,15
402,400	402,600	80	57	4,42	410,000	410,200	80	49	3,75
402,600	402,800	80	58	4,49	410,200	410,400	80	45	3,45

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
410,400	410,600	80	40		3,08	418,000	418,200	80	32
410,600	410,800	80	54	4,12	418,200	418,400	80	34	2,64
410,800	411,000	80	54	4,12	418,400	418,600	80	32	2,49
411,000	411,200	80	47	3,60	418,600	418,800	80	30	2,34
411,200	411,400	80	30	2,34	418,800	419,000	80	29	2,26
411,400	411,600	80	56	4,34	419,000	419,200	80	36	2,78
411,600	411,800	80	70	5,38	419,200	419,400	80	32	2,49
411,800	412,000	80	70	5,38	419,400	419,600	80	34	2,64
412,000	412,200	80	42	3,23	419,600	419,800	80	26	1,97
412,200	412,400	80	41	3,15	419,800	420,000	80	32	2,49
412,400	412,600	80	43	3,30	420,000	420,200	80	33	2,56
412,600	412,800	80	36	2,78	420,200	420,400	80	26	1,97
412,800	413,000	80	27	2,04	420,400	420,600	80	25	1,89
413,000	413,200	80	22	1,67	420,600	420,800	80	22	1,67
413,200	413,400	80	20	1,52	420,800	421,000	80	21	1,60
413,400	413,600	80	28	2,12	421,000	421,200	50	24	1,86
413,600	413,800	80	26	1,97	421,200	421,400	50	22	1,68
413,800	414,000	80	34	2,64	421,400	421,600	50	25	1,91
414,000	414,200	80	36	2,78	421,600	421,800	50	25	1,91
414,200	414,400	80	21	1,60	421,800	422,000	50	29	2,26
414,400	414,600	80	23	1,74	422,000	422,200	50	23	1,80
414,600	414,800	80	20	1,52	422,200	422,400	80	24	1,82
414,800	415,000	80	28	2,12	422,400	422,600	80	21	1,60
415,000	415,200	80	28	2,12	422,600	422,800	80	24	1,82
415,200	415,400	80	24	1,82	422,800	423,000	80	56	4,34
415,400	415,600	80	24	1,82	423,000	423,200	80	88	6,79
415,600	415,800	80	28	2,12	423,200	423,400	50	33	2,55
415,800	416,000	80	22	1,67	423,400	423,600	50	56	4,33
416,000	416,200	80	25	1,89	423,600	423,800	80	71	5,46
416,200	416,400	80	26	1,97	423,800	424,000	80	72	5,53
416,400	416,600	80	28	2,12	424,000	424,200	80	49	3,75
416,600	416,800	80	28	2,12	424,200	424,400	80	28	2,12
416,800	417,000	80	23	1,74	424,400	424,600	80	55	4,19
417,000	417,200	80	24	1,82	424,600	424,800	80	32	2,49
417,200	417,400	80	32	2,49	424,800	425,000	80	34	2,64
417,400	417,600	80	24	1,82	425,000	425,200	80	35	2,71
417,600	417,800	80	23	1,74	425,200	425,400	80	45	3,45
417,800	418,000	80	34	2,64	425,400	425,600	80	38	2,93

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
425,600	425,800	80	24		1,82	433,200	433,400	50	45
425,800	426,000	80	35	2,71	433,400	433,600	50	47	3,64
426,000	426,200	80	54	4,12	433,600	433,800	50	77	5,95
426,200	426,400	50	59	4,51	433,800	434,000	50	65	4,97
426,400	426,600	50	56	4,28	434,000	434,200	50	78	6,01
426,600	426,800	50	53	4,05	434,200	434,400	50	61	4,68
426,800	427,000	50	58	4,45	434,400	434,600	50	66	5,08
427,000	427,200	50	44	3,41	434,600	434,800	50	68	5,20
427,200	427,400	80	73	5,60	434,800	435,000	50	62	4,80
427,400	427,600	80	49	3,75	435,000	435,200	50	80	6,18
427,600	427,800	80	69	5,31	435,200	435,400	50	85	6,52
427,800	428,000	80	38	2,93	435,400	435,600	30	87	6,69
428,000	428,200	50	44	3,41	435,600	435,800	30	81	6,22
428,200	428,400	50	54	4,16	435,800	436,000	30	70	5,41
428,400	428,600	50	50	3,82	436,000	436,200	30	65	4,99
428,600	428,800	80	57	4,42	436,200	436,400	50	56	4,33
428,800	429,000	80	88	6,79	436,400	436,600	50	69	5,31
429,000	429,200	80	68	5,23	436,600	436,800	50	75	5,78
429,200	429,400	50	63	4,85	436,800	437,000	50	82	6,29
429,400	429,600	30	62	4,75	437,000	437,200	50	73	5,60
429,600	429,800	30	70	5,41	437,200	437,400	50	71	5,49
429,800	430,000	50	74	5,72	437,400	437,600	50	68	5,26
430,000	430,200	50	66	5,08	437,600	437,800	50	65	5,03
430,200	430,400	50	65	4,97	437,800	438,000	50	91	6,98
430,400	430,600	50	80	6,18	438,000	438,200	50	61	4,68
430,600	430,800	50	77	5,95	438,200	438,400	50	62	4,80
430,800	431,000	50	65	5,03	438,400	438,600	50	71	5,49
431,000	431,200	50	55	4,22	438,600	438,800	50	48	3,70
431,200	431,400	50	51	3,93	438,800	439,000	50	51	3,93
431,400	431,600	50	85	6,52	439,000	439,200	50	62	4,74
431,600	431,800	50	65	5,03	439,200	439,400	50	47	3,59
431,800	432,000	50	35	2,66	439,400	439,600	50	41	3,18
432,000	432,200	80	25	1,89	439,600	439,800	50	47	3,59
432,200	432,400	80	48	3,67	439,800	440,000	50	65	4,97
432,400	432,600	80	69	5,31	440,000	440,200	50	35	2,72
432,600	432,800	50	74	5,72	440,200	440,400	50	86	6,58
432,800	433,000	50	59	4,57	440,400	440,600	50	73	5,60
433,000	433,200	50	53	4,10	440,600	440,800	50	81	6,24

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INICIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
440,800	441,000	50	56		4,33	448,400	448,600	50	
441,000	441,200	50	86	6,58	448,600	448,800	50	91	6,98
441,200	441,400	50	75	5,78	448,800	449,000	50	50	3,82
441,400	441,600	50	77	5,89	449,000	449,200	50	31	2,38
441,600	441,800	50	56	4,28	449,200	449,400	50	41	3,12
441,800	442,000	50	32	2,49	449,400	449,600	50	29	2,26
442,000	442,200	50	49	3,76	449,600	449,800	50	44	3,36
442,200	442,400	30	67	5,13	449,800	450,000	50	59	4,51
442,400	442,600	30	32	2,48	450,000	450,200	50	46	3,53
442,600	442,800	30	35	2,72	450,200	450,400	50	47	3,59
442,800	443,000	30	44	3,38	450,400	450,600	50	50	3,87
443,000	443,200	30	40	3,05	450,600	450,800	50	49	3,76
443,200	443,400	30	33	2,53	450,800	451,000	50	44	3,36
443,400	443,600	30	36	2,76	451,000	451,200	50	47	3,64
443,600	443,800	30	49	3,76	451,200	451,400	50	38	2,95
443,800	444,000	30	35	2,67	451,400	451,600	50	39	3,01
444,000	444,200	30	33	2,57	451,600	451,800	50	61	4,68
444,200	444,400	30	35	2,67	451,800	452,000	50	68	5,20
444,400	444,600	30	40	3,09	452,000	452,200	50	38	2,95
444,600	444,800	30	49	3,76	452,200	452,400	50	81	6,24
444,800	445,000	30	38	2,95	452,400	452,600	50	61	4,68
445,000	445,200	30	57	4,42	452,600	452,800	50	63	4,85
445,200	445,400	50	70	5,37	452,800	453,000	50	65	4,97
445,400	445,600	50	62	4,74	453,000	453,200	30	61	4,66
445,600	445,800	50	44	3,36	453,200	453,400	30	57	4,37
445,800	446,000	50	50	3,87	453,400	453,600	30	51	3,95
446,000	446,200	50	71	5,43	453,600	453,800	50	57	4,39
446,200	446,400	50	53	4,05	453,800	454,000	50	45	3,47
446,400	446,600	50	66	5,08	454,000	454,200	50	41	3,12
446,600	446,800	50	78	6,01	454,200	454,400	50	40	3,07
446,800	447,000	50	62	4,80	454,400	454,600	30	45	3,47
447,000	447,200	50	51	3,93	454,600	454,800	50	45	3,47
447,200	447,400	50	60	4,62	454,800	455,000	50	39	3,01
447,400	447,600	50	37	2,84	455,000	455,200	30	40	3,09
447,600	447,800	50	32	2,43	455,200	455,400	30	55	4,23
447,800	448,000	50	51	3,93	455,400	455,600	30	47	3,61
448,000	448,200	50	42	3,24	455,600	455,800	30	65	4,99
448,200	448,400	50	32	2,43	455,800	456,000	30	64	4,94

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
456,000	456,200	50	47		3,59	463,600	463,800	50	
456,200	456,400	50	41	3,12	463,800	464,000	50	47	3,59
456,400	456,600	50	41	3,12	464,000	464,200	50	35	2,72
456,600	456,800	50	50	3,87	464,200	464,400	50	39	3,01
456,800	457,000	50	34	2,61	464,400	464,600	50	66	5,08
457,000	457,200	50	32	2,49	464,600	464,800	50	59	4,51
457,200	457,400	50	42	3,24	464,800	465,000	50	41	3,12
457,400	457,600	50	53	4,05	465,000	465,200	50	47	3,64
457,600	457,800	50	42	3,24	465,200	465,400	50	61	4,68
457,800	458,000	50	32	2,43	465,400	465,600	50	84	6,47
458,000	458,200	50	56	4,33	465,600	465,800	50	71	5,49
458,200	458,400	50	62	4,74	465,800	466,000	50	85	6,52
458,400	458,600	50	67	5,14	466,000	466,200	50	38	2,89
458,600	458,800	50	62	4,74	466,200	466,400	50	31	2,38
458,800	459,000	50	76	5,83	466,400	466,600	50	29	2,20
459,000	459,200	50	65	5,03	466,600	466,800	50	36	2,78
459,200	459,400	50	70	5,37	466,800	467,000	50	36	2,78
459,400	459,600	50	65	4,97	467,000	467,200	50	28	2,15
459,600	459,800	50	61	4,68	467,200	467,400	50	35	2,72
459,800	460,000	50	47	3,59	467,400	467,600	50	42	3,24
460,000	460,200	50	31	2,38	467,600	467,800	50	39	3,01
460,200	460,400	50	43	3,30	467,800	468,000	50	35	2,66
460,400	460,600	50	53	4,05	468,000	468,200	50	34	2,61
460,600	460,800	50	79	6,06	468,200	468,400	50	44	3,36
460,800	461,000	50	77	5,95	468,400	468,600	50	32	2,43
461,000	461,200	50	77	5,89	468,600	468,800	50	38	2,95
461,200	461,400	50	56	4,33	468,800	469,000	50	41	3,12
461,400	461,600	50	59	4,57	469,000	469,200	50	35	2,72
461,600	461,800	50	57	4,39	469,200	469,400	50	34	2,61
461,800	462,000	50	77	5,95	469,400	469,600	50	31	2,38
462,000	462,200	50	73	5,60	469,600	469,800	50	31	2,38
462,200	462,400	50	70	5,37	469,800	470,000	30	27	2,05
462,400	462,600	50	65	5,03	470,000	470,200	30	60	4,61
462,600	462,800	50	45	3,47	470,200	470,400	30	53	4,04
462,800	463,000	50	47	3,59	470,400	470,600	30	37	2,81
463,000	463,200	50	30	2,32	470,600	470,800	50	25	1,91
463,200	463,400	50	38	2,95	470,800	471,000	80	23	1,74
463,400	463,600	50	38	2,89	471,000	471,200	80	24	1,82

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
471,200	471,400	80	19	1,45	478,800	479,000	80	31	2,41
471,400	471,600	80	25	1,89	479,000	479,200	80	33	2,56
471,600	471,800	80	20	1,52	479,200	479,400	80	29	2,26
471,800	472,000	80	21	1,60	479,400	479,600	80	30	2,34
472,000	472,200	80	26	1,97	479,600	479,800	80	28	2,19
472,200	472,400	80	28	2,19	479,800	480,000	80	36	2,78
472,400	472,600	80	27	2,04	480,000	480,200	80	38	2,93
472,600	472,800	80	23	1,74	480,200	480,400	80	24	1,82
472,800	473,000	80	17	1,30	480,400	480,600	80	32	2,49
473,000	473,200	80	27	2,04	480,600	480,800	80	30	2,34
473,200	473,400	80	25	1,89	480,800	481,000	80	26	1,97
473,400	473,600	80	21	1,60	481,000	481,200	80	26	1,97
473,600	473,800	80	21	1,60	481,200	481,400	80	26	1,97
473,800	474,000	80	18	1,37	481,400	481,600	80	20	1,52
474,000	474,200	80	20	1,52	481,600	481,800	80	23	1,74
474,200	474,400	80	27	2,04	481,800	482,000	80	45	3,45
474,400	474,600	80	24	1,82	482,000	482,200	80	71	5,46
474,600	474,800	80	28	2,12	482,200	482,400	80	54	4,12
474,800	475,000	80	24	1,82	482,400	482,600	80	47	3,60
475,000	475,200	80	25	1,89	482,600	482,800	80	28	2,12
475,200	475,400	80	28	2,12	482,800	483,000	80	32	2,49
475,400	475,600	80	26	1,97	483,000	483,200	80	30	2,34
475,600	475,800	80	23	1,74	483,200	483,400	80	24	1,82
475,800	476,000	80	24	1,82	483,400	483,600	80	28	2,19
476,000	476,200	80	30	2,34	483,600	483,800	80	26	1,97
476,200	476,400	80	39	3,01	483,800	484,000	80	28	2,12
476,400	476,600	80	25	1,89	484,000	484,200	80	28	2,12
476,600	476,800	80	25	1,89	484,200	484,400	80	23	1,74
476,800	477,000	80	25	1,89	484,400	484,600	80	38	2,93
477,000	477,200	80	35	2,71	484,600	484,800	80	25	1,89
477,200	477,400	80	27	2,04	484,800	485,000	80	37	2,86
477,400	477,600	80	28	2,12	485,000	485,200	80	39	3,01
477,600	477,800	80	50	3,82	485,200	485,400	80	45	3,45
477,800	478,000	80	56	4,34	485,400	485,600	80	38	2,93
478,000	478,200	80	38	2,93	485,600	485,800	80	20	1,52
478,200	478,400	80	34	2,64	485,800	486,000	80	22	1,67
478,400	478,600	80	45	3,45	486,000	486,200	80	20	1,52
478,600	478,800	80	34	2,64	486,200	486,400	80	22	1,67

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INICIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
486,400	486,600	80	20		1,52	494,000	494,200	80	
486,600	486,800	80	21	1,60	494,200	494,400	80	26	1,97
486,800	487,000	80	17	1,30	494,400	494,600	80	21	1,60
487,000	487,200	80	18	1,37	494,600	494,800	80	24	1,82
487,200	487,400	80	20	1,52	494,800	495,000	80	24	1,82
487,400	487,600	80	23	1,74	495,000	495,200	80	21	1,60
487,600	487,800	80	47	3,60	495,200	495,400	80	24	1,82
487,800	488,000	80	26	1,97	495,400	495,600	80	26	1,97
488,000	488,200	80	30	2,34	495,600	495,800	80	48	3,67
488,200	488,400	80	36	2,78	495,800	496,000	80	80	6,12
488,400	488,600	80	55	4,19	496,000	496,200	80	63	4,86
488,600	488,800	80	28	2,19	496,200	496,400	80	29	2,26
488,800	489,000	80	32	2,49	496,400	496,600	80	44	3,38
489,000	489,200	80	50	3,82	496,600	496,800	80	19	1,45
489,200	489,400	80	39	3,01	496,800	497,000	80	17	1,30
489,400	489,600	80	26	1,97	497,000	497,200	80	19	1,45
489,600	489,800	80	42	3,23	497,200	497,400	80	21	1,60
489,800	490,000	80	34	2,64	497,400	497,600	80	27	2,04
490,000	490,200	80	52	3,97	497,600	497,800	80	25	1,89
490,200	490,400	80	75	5,75	497,800	498,000	80	21	1,60
490,400	490,600	80	77	5,90	498,000	498,200	80	47	3,60
490,600	490,800	80	81	6,20	498,200	498,400	80	21	1,60
490,800	491,000	80	69	5,31	498,400	498,600	80	16	1,22
491,000	491,200	80	45	3,45	498,600	498,800	80	14	1,08
491,200	491,400	80	48	3,67	498,800	499,000	80	16	1,22
491,400	491,600	80	28	2,12	499,000	499,200	80	12	0,93
491,600	491,800	80	26	1,97	499,200	499,400	80	13	1,00
491,800	492,000	80	23	1,74	499,400	499,600	80	12	0,93
492,000	492,200	80	24	1,82	499,600	499,800	80	12	0,93
492,200	492,400	80	23	1,74	499,800	500,000	80	14	1,08
492,400	492,600	80	28	2,12	500,000	500,200	80	15	1,15
492,600	492,800	80	24	1,82	500,200	500,400	80	14	1,08
492,800	493,000	80	26	1,97	500,400	500,600	80	13	1,00
493,000	493,200	80	21	1,60	500,600	500,800	80	14	1,08
493,200	493,400	80	27	2,04	500,800	501,000	80	16	1,22
493,400	493,600	80	28	2,12	501,000	501,200	80	21	1,60
493,600	493,800	80	23	1,74	501,200	501,400	80	18	1,37
493,800	494,000	80	25	1,89	501,400	501,600	80	20	1,52

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INICIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
501,600	501,800	80	16	1,22	509,200	509,400	80	12	0,93
501,800	502,000	80	22	1,67	509,400	509,600	80	18	1,37
502,000	502,200	80	14	1,08	509,600	509,800	80	15	1,15
502,200	502,400	80	14	1,08	509,800	510,000	80	16	1,22
502,400	502,600	80	17	1,30	510,000	510,200	80	21	1,60
502,600	502,800	80	22	1,67	510,200	510,400	80	23	1,74
502,800	503,000	80	17	1,30	510,400	510,600	80	22	1,67
503,000	503,200	80	17	1,30	510,600	510,800	80	20	1,52
503,200	503,400	80	16	1,22	510,800	511,000	80	23	1,74
503,400	503,600	80	14	1,08	511,000	511,200	80	24	1,82
503,600	503,800	80	16	1,22	511,200	511,400	80	23	1,74
503,800	504,000	80	18	1,37	511,400	511,600	80	24	1,82
504,000	504,200	80	16	1,22	511,600	511,800	80	22	1,67
504,200	504,400	80	14	1,08	511,800	512,000	80	18	1,37
504,400	504,600	80	14	1,08	512,000	512,200	80	22	1,67
504,600	504,800	80	17	1,30	512,200	512,400	80	13	1,00
504,800	505,000	80	16	1,22	512,400	512,600	80	18	1,37
505,000	505,200	80	21	1,60	512,600	512,800	80	16	1,22
505,200	505,400	80	21	1,60	512,800	513,000	80	16	1,22
505,400	505,600	80	32	2,49	513,000	513,200	80	14	1,08
505,600	505,800	80	37	2,86	513,200	513,400	80	16	1,22
505,800	506,000	80	19	1,45	513,400	513,600	80	17	1,30
506,000	506,200	80	19	1,45	513,600	513,800	80	16	1,22
506,200	506,400	80	24	1,82	513,800	514,000	80	18	1,37
506,400	506,600	80	16	1,22	514,000	514,200	80	22	1,67
506,600	506,800	50	19	1,45	514,200	514,400	80	14	1,08
506,800	507,000	50	21	1,63	514,400	514,600	80	17	1,30
507,000	507,200	50	18	1,40	514,600	514,800	80	14	1,08
507,200	507,400	50	18	1,40	514,800	515,000	80	16	1,22
507,400	507,600	50	20	1,57	515,000	515,200	80	15	1,15
507,600	507,800	50	23	1,74	515,200	515,400	80	18	1,37
507,800	508,000	80	16	1,22	515,400	515,600	80	17	1,30
508,000	508,200	80	19	1,45	515,600	515,800	80	16	1,22
508,200	508,400	80	16	1,22	515,800	516,000	80	15	1,15
508,400	508,600	80	15	1,15	516,000	516,200	50	26	1,97
508,600	508,800	80	16	1,22	516,200	516,400	50	20	1,57
508,800	509,000	80	12	0,93	516,400	516,600	50	23	1,74
509,000	509,200	80	14	1,08	516,600	516,800	80	17	1,30

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
516,800	517,000	80	22		1,67	524,400	524,600	50	17
517,000	517,200	80	27	2,04	524,600	524,800	50	16	1,22
517,200	517,400	80	21	1,60	524,800	525,000	50	16	1,22
517,400	517,600	80	17	1,30	525,000	525,200	50	17	1,34
517,600	517,800	80	15	1,15	525,200	525,400	50	17	1,34
517,800	518,000	80	14	1,08	525,400	525,600	50	19	1,45
518,000	518,200	80	13	1,00	525,600	525,800	50	16	1,22
518,200	518,400	80	15	1,15	525,800	526,000	50	17	1,34
518,400	518,600	80	17	1,30	526,000	526,200	80	15	1,15
518,600	518,800	80	18	1,37	526,200	526,400	80	14	1,08
518,800	519,000	80	21	1,60	526,400	526,600	80	13	1,00
519,000	519,200	80	23	1,74	526,600	526,800	80	13	1,00
519,200	519,400	80	25	1,89	526,800	527,000	80	11	0,85
519,400	519,600	80	16	1,22	527,000	527,200	80	32	2,49
519,600	519,800	80	16	1,22	527,200	527,400	80	48	3,67
519,800	520,000	80	17	1,30	527,400	527,600	80	32	2,49
520,000	520,200	80	19	1,45	527,600	527,800	50	24	1,86
520,200	520,400	80	17	1,30	527,800	528,000	50	22	1,68
520,400	520,600	80	14	1,08	528,000	528,200	50	26	2,03
520,600	520,800	80	16	1,22	528,200	528,400	50	26	1,97
520,800	521,000	80	13	1,00	528,400	528,600	50	27	2,09
521,000	521,200	80	15	1,15	528,600	528,800	50	28	2,15
521,200	521,400	80	14	1,08	528,800	529,000	50	23	1,80
521,400	521,600	80	20	1,52	529,000	529,200	50	28	2,15
521,600	521,800	80	17	1,30	529,200	529,400	50	38	2,89
521,800	522,000	80	23	1,74	529,400	529,600	50	29	2,26
522,000	522,200	80	23	1,74	529,600	529,800	50	54	4,16
522,200	522,400	80	23	1,74	529,800	530,000	50	40	3,07
522,400	522,600	80	20	1,52	530,000	530,200	50	32	2,49
522,600	522,800	80	22	1,67	530,200	530,400	50	25	1,91
522,800	523,000	80	26	1,97	530,400	530,600	50	28	2,15
523,000	523,200	80	29	2,26	530,600	530,800	50	29	2,20
523,200	523,400	80	44	3,38	530,800	531,000	50	25	1,91
523,400	523,600	80	47	3,60	531,000	531,200	50	28	2,15
523,600	523,800	80	36	2,78	531,200	531,400	50	23	1,80
523,800	524,000	50	35	2,66	531,400	531,600	50	23	1,80
524,000	524,200	50	38	2,95	531,600	531,800	50	25	1,91
524,200	524,400	50	21	1,63	531,800	532,000	30	26	2,01

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
532,000	532,200	30	40		3,05	550,400	550,600	80	21
532,200	532,400	30	27	2,10	550,600	550,800	80	22	1,67
532,400	532,600	30	25	1,96	550,800	551,000	80	24	1,82
532,600	532,800	30	41	3,14	551,000	551,200	80	31	2,41
532,800	533,000	30	38	2,90	551,200	551,400	80	27	2,04
533,000	544,000	Anel Rodoviário de Belo Horizonte			551,400	551,600	80	25	1,89
544,000	544,200	80	24	1,82	551,600	551,800	80	23	1,74
544,200	544,400	80	33	2,56	551,800	552,000	80	30	2,34
544,400	544,600	80	29	2,26	552,000	552,200	80	29	2,26
544,600	544,800	80	33	2,56	552,200	552,400	80	23	1,74
544,800	545,000	80	41	3,15	552,400	552,600	80	22	1,67
545,000	545,200	80	41	3,15	552,600	552,800	80	22	1,67
545,200	545,400	80	36	2,78	552,800	553,000	80	20	1,52
545,400	545,600	80	24	1,82	553,000	553,200	80	26	1,97
545,600	545,800	80	40	3,08	553,200	553,400	80	23	1,74
545,800	546,000	80	49	3,75	553,400	553,600	80	19	1,45
546,000	546,200	80	28	2,19	553,600	553,800	80	22	1,67
546,200	546,400	80	32	2,49	553,800	554,000	80	22	1,67
546,400	546,600	80	28	2,12	554,000	554,200	80	28	2,12
546,600	546,800	80	31	2,41	554,200	554,400	80	24	1,82
546,800	547,000	80	36	2,78	554,400	554,600	80	19	1,45
547,000	547,200	80	33	2,56	554,600	554,800	80	17	1,30
547,200	547,400	80	26	1,97	554,800	555,000	80	22	1,67
547,400	547,600	80	26	1,97	555,000	555,200	80	30	2,34
547,600	547,800	80	25	1,89	555,200	555,400	80	32	2,49
547,800	548,000	80	23	1,74	555,400	555,600	80	28	2,19
548,000	548,200	80	26	1,97	555,600	555,800	80	32	2,49
548,200	548,400	80	29	2,26	555,800	556,000	80	35	2,71
548,400	548,600	80	24	1,82	556,000	556,200	80	38	2,93
548,600	548,800	80	22	1,67	556,200	556,400	80	33	2,56
548,800	549,000	80	35	2,71	556,400	556,600	80	30	2,34
549,000	549,200	80	18	1,37	556,600	556,800	80	35	2,71
549,200	549,400	80	20	1,52	556,800	557,000	80	34	2,64
549,400	549,600	80	23	1,74	557,000	557,200	80	41	3,15
549,600	549,800	80	18	1,37	557,200	557,400	80	34	2,64
549,800	550,000	80	15	1,15	557,400	557,600	80	31	2,41
550,000	550,200	80	20	1,52	557,600	557,800	80	29	2,26
550,200	550,400	80	21	1,60	557,800	558,000	80	30	2,34

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
558,000	558,200	80	30		2,34	565,600	565,800	80	
558,200	558,400	80	27	2,04	565,800	566,000	80	35	2,71
558,400	558,600	80	24	1,82	566,000	566,200	80	42	3,23
558,600	558,800	80	23	1,74	566,200	566,400	80	49	3,75
558,800	559,000	80	25	1,89	566,400	566,600	80	31	2,41
559,000	559,200	80	27	2,04	566,600	566,800	80	28	2,12
559,200	559,400	80	23	1,74	566,800	567,000	80	28	2,19
559,400	559,600	80	24	1,82	567,000	567,200	80	29	2,26
559,600	559,800	80	27	2,04	567,200	567,400	80	27	2,04
559,800	560,000	80	28	2,19	567,400	567,600	80	31	2,41
560,000	560,200	80	26	1,97	567,600	567,800	80	33	2,56
560,200	560,400	80	29	2,26	567,800	568,000	80	34	2,64
560,400	560,600	80	24	1,82	568,000	568,200	80	29	2,26
560,600	560,800	80	24	1,82	568,200	568,400	80	37	2,86
560,800	561,000	80	19	1,45	568,400	568,600	80	32	2,49
561,000	561,200	80	21	1,60	568,600	568,800	80	34	2,64
561,200	561,400	80	23	1,74	568,800	569,000	80	27	2,04
561,400	561,600	80	19	1,45	569,000	569,200	80	35	2,71
561,600	561,800	80	23	1,74	569,200	569,400	80	32	2,49
561,800	562,000	80	28	2,12	569,400	569,600	80	33	2,56
562,000	562,200	80	29	2,26	569,600	569,800	80	31	2,41
562,200	562,400	80	27	2,04	569,800	570,000	80	29	2,26
562,400	562,600	80	32	2,49	570,000	570,200	80	31	2,41
562,600	562,800	80	28	2,12	570,200	570,400	80	37	2,86
562,800	563,000	80	30	2,34	570,400	570,600	80	34	2,64
563,000	563,200	80	29	2,26	570,600	570,800	80	26	1,97
563,200	563,400	80	26	1,97	570,800	571,000	80	35	2,71
563,400	563,600	80	38	2,93	571,000	571,200	80	33	2,56
563,600	563,800	80	44	3,38	571,200	571,400	80	32	2,49
563,800	564,000	80	50	3,82	571,400	571,600	80	33	2,56
564,000	564,200	80	36	2,78	571,600	571,800	80	29	2,26
564,200	564,400	80	37	2,86	571,800	572,000	80	28	2,12
564,400	564,600	80	34	2,64	572,000	572,200	80	33	2,56
564,600	564,800	80	30	2,34	572,200	572,400	80	27	2,04
564,800	565,000	80	40	3,08	572,400	572,600	80	50	3,82
565,000	565,200	80	43	3,30	572,600	572,800	80	29	2,26
565,200	565,400	80	39	3,01	572,800	573,000	80	34	2,64
565,400	565,600	80	34	2,64	573,000	573,200	80	31	2,41

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
573,200	573,400	80	28	2,12	580,800	581,000	80	49	3,75
573,400	573,600	80	28	2,12	581,000	581,200	80	46	3,53
573,600	573,800	80	31	2,41	581,200	581,400	80	42	3,23
573,800	574,000	80	31	2,41	581,400	581,600	80	63	4,86
574,000	574,200	80	30	2,34	581,600	581,800	80	48	3,67
574,200	574,400	80	27	2,04	581,800	582,000	80	53	4,05
574,400	574,600	80	28	2,12	582,000	582,200	80	38	2,93
574,600	574,800	80	30	2,34	582,200	582,400	80	33	2,56
574,800	575,000	80	27	2,04	582,400	582,600	80	41	3,15
575,000	575,200	80	29	2,26	582,600	582,800	80	37	2,86
575,200	575,400	80	28	2,12	582,800	583,000	80	29	2,26
575,400	575,600	80	29	2,26	583,000	583,200	80	42	3,23
575,600	575,800	80	32	2,49	583,200	583,400	80	46	3,53
575,800	576,000	80	44	3,38	583,400	583,600	80	48	3,67
576,000	576,200	80	36	2,78	583,600	583,800	80	41	3,15
576,200	576,400	80	28	2,19	583,800	584,000	80	30	2,34
576,400	576,600	80	28	2,12	584,000	584,200	80	55	4,19
576,600	576,800	80	41	3,15	584,200	584,400	80	37	2,86
576,800	577,000	80	32	2,49	584,400	584,600	80	35	2,71
577,000	577,200	80	30	2,34	584,600	584,800	80	32	2,49
577,200	577,400	80	45	3,45	584,800	585,000	80	38	2,93
577,400	577,600	80	43	3,30	585,000	585,200	80	39	3,01
577,600	577,800	80	29	2,26	585,200	585,400	80	43	3,30
577,800	578,000	80	41	3,15	585,400	585,600	80	34	2,64
578,000	578,200	80	28	2,19	585,600	585,800	80	31	2,41
578,200	578,400	80	38	2,93	585,800	586,000	80	28	2,12
578,400	578,600	80	42	3,23	586,000	586,200	80	33	2,56
578,600	578,800	80	46	3,53	586,200	586,400	80	36	2,78
578,800	579,000	80	35	2,71	586,400	586,600	80	28	2,12
579,000	579,200	80	29	2,26	586,600	586,800	80	31	2,41
579,200	579,400	80	34	2,64	586,800	587,000	80	33	2,56
579,400	579,600	50	33	2,55	587,000	587,200	80	34	2,64
579,600	579,800	80	32	2,49	587,200	587,400	80	36	2,78
579,800	580,000	80	26	1,97	587,400	587,600	80	30	2,34
580,000	580,200	80	34	2,64	587,600	587,800	80	42	3,23
580,200	580,400	80	33	2,56	587,800	588,000	80	64	4,94
580,400	580,600	80	39	3,01	588,000	588,200	80	53	4,05
580,600	580,800	80	53	4,05	588,200	588,400	80	37	2,86

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
588,400	588,600	80	35		2,71	596,000	596,200	80	56
588,600	588,800	80	39	3,01	596,200	596,400	80	41	3,15
588,800	589,000	80	36	2,78	596,400	596,600	80	43	3,30
589,000	589,200	80	30	2,34	596,600	596,800	80	34	2,64
589,200	589,400	80	31	2,41	596,800	597,000	80	35	2,71
589,400	589,600	80	35	2,71	597,000	597,200	80	31	2,41
589,600	589,800	80	38	2,93	597,200	597,400	80	41	3,15
589,800	590,000	80	33	2,56	597,400	597,600	80	38	2,93
590,000	590,200	80	38	2,93	597,600	597,800	80	47	3,60
590,200	590,400	80	39	3,01	597,800	598,000	80	40	3,08
590,400	590,600	80	43	3,30	598,000	598,200	80	37	2,86
590,600	590,800	80	34	2,64	598,200	598,400	80	45	3,45
590,800	591,000	80	34	2,64	598,400	598,600	80	32	2,49
591,000	591,200	80	32	2,49	598,600	598,800	80	42	3,23
591,200	591,400	50	32	2,43	598,800	599,000	80	29	2,26
591,400	591,600	50	46	3,53	599,000	599,200	80	28	2,19
591,600	591,800	30	46	3,57	599,200	599,400	80	22	1,67
591,800	592,000	30	30	2,29	599,400	599,600	80	29	2,26
592,000	592,200	50	37	2,84	599,600	599,800	80	28	2,12
592,200	592,400	50	42	3,24	599,800	600,000	80	36	2,78
592,400	592,600	80	40	3,08	600,000	600,200	80	28	2,19
592,600	592,800	80	38	2,93	600,200	600,400	80	28	2,12
592,800	593,000	80	36	2,78	600,400	600,600	80	28	2,12
593,000	593,200	50	48	3,70	600,600	600,800	80	30	2,34
593,200	593,400	50	35	2,72	600,800	601,000	80	22	1,67
593,400	593,600	50	34	2,61	601,000	601,200	80	25	1,89
593,600	593,800	50	38	2,95	601,200	601,400	80	40	3,08
593,800	594,000	50	39	3,01	601,400	601,600	80	39	3,01
594,000	594,200	50	33	2,55	601,600	601,800	80	30	2,34
594,200	594,400	80	36	2,78	601,800	602,000	80	37	2,86
594,400	594,600	80	38	2,93	602,000	602,200	80	25	1,89
594,600	594,800	80	31	2,41	602,200	602,400	80	33	2,56
594,800	595,000	80	28	2,12	602,400	602,600	80	34	2,64
595,000	595,200	80	34	2,64	602,600	602,800	80	43	3,30
595,200	595,400	80	30	2,34	602,800	603,000	80	34	2,64
595,400	595,600	80	33	2,56	603,000	603,200	80	31	2,41
595,600	595,800	80	26	1,97	603,200	603,400	80	39	3,01
595,800	596,000	80	29	2,26	603,400	603,600	80	36	2,78

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
603,600	603,800	80	44		3,38	611,200	611,400	80	40
603,800	604,000	80	60	4,64	611,400	611,600	80	59	4,57
604,000	604,200	80	35	2,71	611,600	611,800	80	35	2,71
604,200	604,400	80	34	2,64	611,800	612,000	50	34	2,61
604,400	604,600	80	62	4,79	612,000	612,200	80	52	3,97
604,600	604,800	80	61	4,71	612,200	612,400	80	30	2,34
604,800	605,000	80	46	3,53	612,400	612,600	80	37	2,86
605,000	605,200	80	26	1,97	612,600	612,800	80	29	2,26
605,200	605,400	80	28	2,12	612,800	613,000	80	28	2,12
605,400	605,600	80	35	2,71	613,000	613,200	80	31	2,41
605,600	605,800	80	34	2,64	613,200	613,400	80	30	2,34
605,800	606,000	80	44	3,38	613,400	613,600	80	28	2,12
606,000	606,200	80	36	2,78	613,600	613,800	80	32	2,49
606,200	606,400	80	32	2,49	613,800	614,000	80	44	3,38
606,400	606,600	50	46	3,53	614,000	614,200	80	37	2,86
606,600	606,800	30	39	3,00	614,200	614,400	80	38	2,93
606,800	607,000	50	32	2,49	614,400	614,600	80	31	2,41
607,000	607,200	80	38	2,93	614,600	614,800	80	35	2,71
607,200	607,400	80	31	2,41	614,800	615,000	80	27	2,04
607,400	607,600	80	31	2,41	615,000	615,200	80	29	2,26
607,600	607,800	80	32	2,49	615,200	615,400	50	53	4,05
607,800	608,000	80	28	2,12	615,400	615,600	50	36	2,78
608,000	608,200	80	36	2,78	615,600	615,800	50	51	3,93
608,200	608,400	80	30	2,34	615,800	616,000	50	26	2,03
608,400	608,600	80	32	2,49	616,000	616,200	80	31	2,41
608,600	608,800	80	32	2,49	616,200	616,400	80	28	2,12
608,800	609,000	80	30	2,34	616,400	616,600	50	42	3,24
609,000	609,200	80	28	2,19	616,600	616,800	50	66	5,08
609,200	609,400	80	29	2,26	616,800	617,000	50	41	3,12
609,400	609,600	80	34	2,64	617,000	617,200	80	28	2,19
609,600	609,800	80	28	2,19	617,200	617,400	80	26	1,97
609,800	610,000	80	30	2,34	617,400	617,600	80	36	2,78
610,000	610,200	80	27	2,04	617,600	617,800	80	41	3,15
610,200	610,400	80	46	3,53	617,800	618,000	80	48	3,67
610,400	610,600	80	64	4,94	618,000	618,200	80	55	4,19
610,600	610,800	80	28	2,12	618,200	618,400	80	60	4,64
610,800	611,000	80	30	2,34	618,400	618,600	80	44	3,38
611,000	611,200	80	67	5,16	618,600	618,800	80	42	3,23

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
618,800	619,000	80	30		2,34	626,400	626,600	80	53
619,000	619,200	80	30	2,34	626,600	626,800	80	89	6,87
619,200	619,400	80	30	2,34	626,800	627,000	80	55	4,19
619,400	619,600	80	28	2,12	627,000	627,200	50	56	4,28
619,600	619,800	80	26	1,97	627,200	627,400	30	88	6,74
619,800	620,000	80	32	2,49	627,400	627,600	30	58	4,47
620,000	620,200	80	28	2,19	627,600	627,800	50	47	3,64
620,200	620,400	80	45	3,45	627,800	628,000	50	51	3,93
620,400	620,600	80	57	4,42	628,000	628,200	50	53	4,10
620,600	620,800	80	38	2,93	628,200	628,400	50	52	3,99
620,800	621,000	80	51	3,90	628,400	628,600	50	63	4,85
621,000	621,200	80	44	3,38	628,600	628,800	30	55	4,23
621,200	621,400	80	48	3,67	628,800	629,000	50	69	5,31
621,400	621,600	80	64	4,94	629,000	629,200	30	59	4,56
621,600	621,800	80	40	3,08	629,200	629,400	50	40	3,07
621,800	622,000	80	48	3,67	629,400	629,600	50	41	3,18
622,000	622,200	80	41	3,15	629,600	629,800	80	41	3,15
622,200	622,400	80	35	2,71	629,800	630,000	80	72	5,53
622,400	622,600	80	40	3,08	630,000	630,200	80	50	3,82
622,600	622,800	80	36	2,78	630,200	630,400	80	52	3,97
622,800	623,000	80	37	2,86	630,400	630,600	80	30	2,34
623,000	623,200	80	56	4,34	630,600	630,800	80	43	3,30
623,200	623,400	80	66	5,08	630,800	631,000	80	44	3,38
623,400	623,600	80	42	3,23	631,000	631,200	80	49	3,75
623,600	623,800	80	43	3,30	631,200	631,400	80	43	3,30
623,800	624,000	80	53	4,05	631,400	631,600	80	50	3,82
624,000	624,200	80	57	4,42	631,600	631,800	80	35	2,71
624,200	624,400	80	44	3,38	631,800	632,000	80	61	4,71
624,400	624,600	80	39	3,01	632,000	632,200	80	78	5,98
624,600	624,800	80	43	3,30	632,200	632,400	80	53	4,05
624,800	625,000	80	35	2,71	632,400	632,600	80	29	2,26
625,000	625,200	80	41	3,15	632,600	632,800	80	28	2,19
625,200	625,400	80	35	2,71	632,800	633,000	80	31	2,41
625,400	625,600	80	35	2,71	633,000	633,200	30	30	2,34
625,600	625,800	80	34	2,64	633,200	633,400	30	32	2,48
625,800	626,000	80	45	3,45	633,400	633,600	50	32	2,49
626,000	626,200	80	47	3,60	633,600	633,800	80	22	1,67
626,200	626,400	80	37	2,86	633,800	634,000	80	22	1,67

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
634,000	634,200	80	22	1,67	641,600	641,800	80	17	1,30
634,200	634,400	80	21	1,60	641,800	642,000	80	17	1,30
634,400	634,600	80	17	1,30	642,000	642,200	80	27	2,04
634,600	634,800	80	22	1,67	642,200	642,400	80	25	1,89
634,800	635,000	80	31	2,41	642,400	642,600	80	30	2,34
635,000	635,200	80	19	1,45	642,600	642,800	80	25	1,89
635,200	635,400	80	17	1,30	642,800	643,000	80	28	2,19
635,400	635,600	80	15	1,15	643,000	643,200	80	20	1,52
635,600	635,800	80	18	1,37	643,200	643,400	80	21	1,60
635,800	636,000	80	18	1,37	643,400	643,600	80	27	2,04
636,000	636,200	80	18	1,37	643,600	643,800	80	24	1,82
636,200	636,400	80	18	1,37	643,800	644,000	80	20	1,52
636,400	636,600	80	17	1,30	644,000	644,200	80	22	1,67
636,600	636,800	80	16	1,22	644,200	644,400	80	24	1,82
636,800	637,000	80	18	1,37	644,400	644,600	80	17	1,30
637,000	637,200	80	26	1,97	644,600	644,800	80	19	1,45
637,200	637,400	80	25	1,89	644,800	645,000	80	19	1,45
637,400	637,600	80	22	1,67	645,000	645,200	80	18	1,37
637,600	637,800	80	18	1,37	645,200	645,400	80	19	1,45
637,800	638,000	80	14	1,08	645,400	645,600	80	16	1,22
638,000	638,200	80	22	1,67	645,600	645,800	80	13	1,00
638,200	638,400	80	19	1,45	645,800	646,000	80	16	1,22
638,400	638,600	80	23	1,74	646,000	646,200	80	20	1,52
638,600	638,800	80	20	1,52	646,200	646,400	80	21	1,60
638,800	639,000	80	22	1,67	646,400	646,600	80	20	1,52
639,000	639,200	80	28	2,12	646,600	646,800	80	20	1,52
639,200	639,400	80	24	1,82	646,800	647,000	80	20	1,52
639,400	639,600	80	23	1,74	647,000	647,200	80	23	1,74
639,600	639,800	80	16	1,22	647,200	647,400	80	25	1,89
639,800	640,000	80	17	1,30	647,400	647,600	80	23	1,74
640,000	640,200	80	20	1,52	647,600	647,800	80	28	2,12
640,200	640,400	80	24	1,82	647,800	648,000	80	21	1,60
640,400	640,600	80	23	1,74	648,000	648,200	80	24	1,82
640,600	640,800	80	28	2,19	648,200	648,400	80	18	1,37
640,800	641,000	80	19	1,45	648,400	648,600	50	26	1,97
641,000	641,200	80	21	1,60	648,600	648,800	50	26	1,97
641,200	641,400	80	20	1,52	648,800	649,000	50	31	2,38
641,400	641,600	80	20	1,52	649,000	649,200	50	23	1,74

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
649,200	649,400	30	29		656,800	657,000	80	22	
649,400	649,600	50	30	2,32	657,000	657,200	80	27	2,04
649,600	649,800	80	19	1,45	657,200	657,400	80	23	1,74
649,800	650,000	80	25	1,89	657,400	657,600	80	22	1,67
650,000	650,200	80	17	1,30	657,600	657,800	80	19	1,45
650,200	650,400	80	16	1,22	657,800	658,000	80	16	1,22
650,400	650,600	80	18	1,37	658,000	658,200	80	20	1,52
650,600	650,800	80	14	1,08	658,200	658,400	80	16	1,22
650,800	651,000	80	16	1,22	658,400	658,600	80	24	1,82
651,000	651,200	80	24	1,82	658,600	658,800	80	25	1,89
651,200	651,400	80	19	1,45	658,800	659,000	80	21	1,60
651,400	651,600	80	19	1,45	659,000	659,200	80	22	1,67
651,600	651,800	80	36	2,78	659,200	659,400	80	27	2,04
651,800	652,000	80	19	1,45	659,400	659,600	80	27	2,04
652,000	652,200	80	23	1,74	659,600	659,800	50	26	1,97
652,200	652,400	80	14	1,08	659,800	660,000	50	25	1,91
652,400	652,600	80	20	1,52	660,000	660,200	50	26	2,03
652,600	652,800	80	21	1,60	660,200	660,400	50	16	1,22
652,800	653,000	80	22	1,67	660,400	660,600	50	17	1,28
653,000	653,200	80	26	1,97	660,600	660,800	80	19	1,45
653,200	653,400	80	23	1,74	660,800	661,000	80	20	1,52
653,400	653,600	80	20	1,52	661,000	661,200	80	20	1,52
653,600	653,800	80	21	1,60	661,200	661,400	80	28	2,19
653,800	654,000	80	25	1,89	661,400	661,600	80	32	2,49
654,000	654,200	80	25	1,89	661,600	661,800	30	27	2,05
654,200	654,400	80	28	2,12	661,800	662,000	50	27	2,09
654,400	654,600	80	36	2,78	662,000	662,200	80	31	2,41
654,600	654,800	50	32	2,49	662,200	662,400	80	22	1,67
654,800	655,000	50	35	2,66	662,400	662,600	80	24	1,82
655,000	655,200	50	31	2,38	662,600	662,800	80	27	2,04
655,200	655,400	80	23	1,74	662,800	663,000	80	24	1,82
655,400	655,600	80	28	2,12	663,000	663,200	80	30	2,34
655,600	655,800	80	26	1,97	663,200	663,400	80	28	2,19
655,800	656,000	80	38	2,93	663,400	663,600	80	32	2,49
656,000	656,200	80	26	1,97	663,600	663,800	80	23	1,74
656,200	656,400	80	32	2,49	663,800	664,000	80	28	2,12
656,400	656,600	80	27	2,04	664,000	664,200	80	27	2,04
656,600	656,800	80	24	1,82	664,200	664,400	80	16	1,22

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
664,400	664,600	80	18		1,37	672,000	672,200	80	
664,600	664,800	80	17	1,30	672,200	672,400	80	19	1,45
664,800	665,000	80	18	1,37	672,400	672,600	80	32	2,49
665,000	665,200	80	33	2,56	672,600	672,800	80	37	2,86
665,200	665,400	80	37	2,86	672,800	673,000	80	51	3,90
665,400	665,600	80	23	1,74	673,000	673,200	80	34	2,64
665,600	665,800	80	26	1,97	673,200	673,400	80	17	1,30
665,800	666,000	80	27	2,04	673,400	673,600	80	13	1,00
666,000	666,200	80	41	3,15	673,600	673,800	80	16	1,22
666,200	666,400	50	38	2,89	673,800	674,000	80	19	1,45
666,400	666,600	50	32	2,49	674,000	674,200	80	34	2,64
666,600	666,800	50	29	2,20	674,200	674,400	80	20	1,52
666,800	667,000	80	15	1,15	674,400	674,600	80	18	1,37
667,000	667,200	80	20	1,52	674,600	674,800	80	16	1,22
667,200	667,400	80	28	2,12	674,800	675,000	80	17	1,30
667,400	667,600	80	32	2,49	675,000	675,200	80	20	1,52
667,600	667,800	80	26	1,97	675,200	675,400	80	17	1,30
667,800	668,000	80	17	1,30	675,400	675,600	80	17	1,30
668,000	668,200	80	14	1,08	675,600	675,800	80	21	1,60
668,200	668,400	80	25	1,89	675,800	676,000	80	24	1,82
668,400	668,600	80	29	2,26	676,000	676,200	80	22	1,67
668,600	668,800	80	29	2,26	676,200	676,400	80	26	1,97
668,800	669,000	80	34	2,64	676,400	676,600	80	22	1,67
669,000	669,200	80	26	1,97	676,600	676,800	80	21	1,60
669,200	669,400	80	25	1,89	676,800	677,000	80	17	1,30
669,400	669,600	80	21	1,60	677,000	677,200	80	22	1,67
669,600	669,800	80	20	1,52	677,200	677,400	80	21	1,60
669,800	670,000	80	29	2,26	677,400	677,600	80	18	1,37
670,000	670,200	80	34	2,64	677,600	677,800	80	20	1,52
670,200	670,400	80	29	2,26	677,800	678,000	80	23	1,74
670,400	670,600	80	31	2,41	678,000	678,200	80	19	1,45
670,600	670,800	80	24	1,82	678,200	678,400	80	20	1,52
670,800	671,000	80	15	1,15	678,400	678,600	80	42	3,23
671,000	671,200	80	14	1,08	678,600	678,800	80	21	1,60
671,200	671,400	80	19	1,45	678,800	679,000	80	20	1,52
671,400	671,600	80	52	3,97	679,000	679,200	80	21	1,60
671,600	671,800	80	55	4,19	679,200	679,400	80	25	1,89
671,800	672,000	80	26	1,97	679,400	679,600	80	28	2,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
679,600	679,800	80	25	1,89	687,200	687,400	80	18	1,37
679,800	680,000	80	28	2,19	687,400	687,600	80	20	1,52
680,000	680,200	80	33	2,56	687,600	687,800	80	20	1,52
680,200	680,400	80	34	2,64	687,800	688,000	80	22	1,67
680,400	680,600	80	31	2,41	688,000	688,200	80	20	1,52
680,600	680,800	80	30	2,34	688,200	688,400	80	17	1,30
680,800	681,000	80	30	2,34	688,400	688,600	80	17	1,30
681,000	681,200	50	29	2,26	688,600	688,800	80	18	1,37
681,200	681,400	30	40	3,09	688,800	689,000	80	15	1,15
681,400	681,600	50	34	2,61	689,000	689,200	80	14	1,08
681,600	681,800	50	32	2,49	689,200	689,400	80	16	1,22
681,800	682,000	50	25	1,91	689,400	689,600	80	15	1,15
682,000	682,200	80	27	2,04	689,600	689,800	80	13	1,00
682,200	682,400	80	29	2,26	689,800	690,000	80	14	1,08
682,400	682,600	80	32	2,49	690,000	690,200	80	16	1,22
682,600	682,800	80	32	2,49	690,200	690,400	80	19	1,45
682,800	683,000	80	30	2,34	690,400	690,600	80	19	1,45
683,000	683,200	80	28	2,12	690,600	690,800	80	28	2,12
683,200	683,400	80	24	1,82	690,800	691,000	80	19	1,45
683,400	683,600	80	26	1,97	691,000	691,200	80	16	1,22
683,600	683,800	80	32	2,49	691,200	691,400	80	26	1,97
683,800	684,000	80	29	2,26	691,400	691,600	80	19	1,45
684,000	684,200	80	23	1,74	691,600	691,800	50	26	1,97
684,200	684,400	80	25	1,89	691,800	692,000	50	25	1,91
684,400	684,600	80	24	1,82	692,000	692,200	50	32	2,43
684,600	684,800	80	24	1,82	692,200	692,400	50	35	2,72
684,800	685,000	80	26	1,97	692,400	692,600	50	21	1,63
685,000	685,200	80	23	1,74	692,600	692,800	80	24	1,82
685,200	685,400	80	25	1,89	692,800	693,000	80	24	1,82
685,400	685,600	80	22	1,67	693,000	693,200	80	27	2,04
685,600	685,800	80	22	1,67	693,200	693,400	80	28	2,12
685,800	686,000	80	21	1,60	693,400	693,600	80	25	1,89
686,000	686,200	80	23	1,74	693,600	693,800	80	21	1,60
686,200	686,400	80	27	2,04	693,800	694,000	80	28	2,12
686,400	686,600	80	23	1,74	694,000	694,200	80	24	1,82
686,600	686,800	80	22	1,67	694,200	694,400	80	27	2,04
686,800	687,000	80	23	1,74	694,400	694,600	80	22	1,67
687,000	687,200	80	23	1,74	694,600	694,800	80	19	1,45

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
694,800	695,000	80	23	1,74	702,400	702,600	80	24	1,82
695,000	695,200	80	22	1,67	702,600	702,800	80	25	1,89
695,200	695,400	80	22	1,67	702,800	703,000	80	21	1,60
695,400	695,600	80	20	1,52	703,000	703,200	80	20	1,52
695,600	695,800	80	22	1,67	703,200	703,400	80	23	1,74
695,800	696,000	50	33	2,55	703,400	703,600	80	24	1,82
696,000	696,200	50	33	2,55	703,600	703,800	80	33	2,56
696,200	696,400	80	27	2,04	703,800	704,000	80	22	1,67
696,400	696,600	80	28	2,12	704,000	704,200	80	24	1,82
696,600	696,800	80	25	1,89	704,200	704,400	80	22	1,67
696,800	697,000	80	22	1,67	704,400	704,600	80	22	1,67
697,000	697,200	80	21	1,60	704,600	704,800	80	22	1,67
697,200	697,400	80	24	1,82	704,800	705,000	80	21	1,60
697,400	697,600	80	17	1,30	705,000	705,200	80	26	1,97
697,600	697,800	80	17	1,30	705,200	705,400	80	24	1,82
697,800	698,000	80	16	1,22	705,400	705,600	80	20	1,52
698,000	698,200	80	29	2,26	705,600	705,800	80	18	1,37
698,200	698,400	80	19	1,45	705,800	706,000	80	16	1,22
698,400	698,600	80	25	1,89	706,000	706,200	80	15	1,15
698,600	698,800	80	18	1,37	706,200	706,400	80	15	1,15
698,800	699,000	80	20	1,52	706,400	706,600	80	19	1,45
699,000	699,200	80	21	1,60	706,600	706,800	80	16	1,22
699,200	699,400	80	22	1,67	706,800	707,000	80	22	1,67
699,400	699,600	80	22	1,67	707,000	707,200	80	17	1,30
699,600	699,800	80	27	2,04	707,200	707,400	80	16	1,22
699,800	700,000	80	27	2,04	707,400	707,600	80	15	1,15
700,000	700,200	80	20	1,52	707,600	707,800	80	15	1,15
700,200	700,400	80	21	1,60	707,800	708,000	80	18	1,37
700,400	700,600	80	23	1,74	708,000	708,200	80	17	1,30
700,600	700,800	80	21	1,60	708,200	708,400	80	22	1,67
700,800	701,000	80	23	1,74	708,400	708,600	80	20	1,52
701,000	701,200	80	23	1,74	708,600	708,800	80	24	1,82
701,200	701,400	80	23	1,74	708,800	709,000	80	22	1,67
701,400	701,600	80	21	1,60	709,000	709,200	80	28	2,12
701,600	701,800	80	27	2,04	709,200	709,400	80	13	1,00
701,800	702,000	80	21	1,60	709,400	709,600	80	15	1,15
702,000	702,200	80	19	1,45	709,600	709,800	80	28	2,19
702,200	702,400	80	19	1,45	709,800	710,000	80	22	1,67

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
710,000	710,200	80	28		2,19	717,600	717,800	80	
710,200	710,400	80	28	2,19	717,800	718,000	80	17	1,30
710,400	710,600	80	22	1,67	718,000	718,200	80	19	1,45
710,600	710,800	80	21	1,60	718,200	718,400	80	19	1,45
710,800	711,000	80	24	1,82	718,400	718,600	80	19	1,45
711,000	711,200	80	16	1,22	718,600	718,800	80	20	1,52
711,200	711,400	80	19	1,45	718,800	719,000	80	20	1,52
711,400	711,600	80	24	1,82	719,000	719,200	50	26	1,97
711,600	711,800	80	24	1,82	719,200	719,400	50	23	1,80
711,800	712,000	80	21	1,60	719,400	719,600	50	23	1,74
712,000	712,200	80	20	1,52	719,600	719,800	50	29	2,26
712,200	712,400	80	19	1,45	719,800	720,000	80	26	1,97
712,400	712,600	80	21	1,60	720,000	720,200	80	27	2,04
712,600	712,800	80	18	1,37	720,200	720,400	80	29	2,26
712,800	713,000	80	22	1,67	720,400	720,600	80	21	1,60
713,000	713,200	80	18	1,37	720,600	720,800	80	31	2,41
713,200	713,400	80	18	1,37	720,800	721,000	80	17	1,30
713,400	713,600	80	15	1,15	721,000	721,200	80	18	1,37
713,600	713,800	80	21	1,60	721,200	721,400	80	19	1,45
713,800	714,000	80	20	1,52	721,400	721,600	80	19	1,45
714,000	714,200	80	17	1,30	721,600	721,800	80	17	1,30
714,200	714,400	80	17	1,30	721,800	722,000	80	17	1,30
714,400	714,600	80	20	1,52	722,000	722,200	80	27	2,04
714,600	714,800	80	25	1,89	722,200	722,400	80	24	1,82
714,800	715,000	80	25	1,89	722,400	722,600	80	20	1,52
715,000	715,200	80	25	1,89	722,600	722,800	80	18	1,37
715,200	715,400	80	27	2,04	722,800	723,000	80	19	1,45
715,400	715,600	80	23	1,74	723,000	723,200	80	21	1,60
715,600	715,800	80	20	1,52	723,200	723,400	80	24	1,82
715,800	716,000	80	21	1,60	723,400	723,600	80	19	1,45
716,000	716,200	80	19	1,45	723,600	723,800	80	28	2,19
716,200	716,400	80	23	1,74	723,800	724,000	80	19	1,45
716,400	716,600	80	19	1,45	724,000	724,200	80	20	1,52
716,600	716,800	80	25	1,89	724,200	724,400	80	23	1,74
716,800	717,000	80	19	1,45	724,400	724,600	80	25	1,89
717,000	717,200	80	21	1,60	724,600	724,800	80	28	2,19
717,200	717,400	80	27	2,04	724,800	725,000	80	27	2,04
717,400	717,600	80	19	1,45	725,000	725,200	80	15	1,15

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
725,200	725,400	80	30	2,34	732,800	733,000	80	32	2,49
725,400	725,600	50	26	2,03	733,000	733,200	80	36	2,78
725,600	725,800	50	23	1,80	733,200	733,400	80	33	2,56
725,800	726,000	50	21	1,63	733,400	733,600	80	31	2,41
726,000	726,200	50	23	1,74	733,600	733,800	80	44	3,38
726,200	726,400	50	24	1,86	733,800	734,000	80	38	2,93
726,400	726,600	50	20	1,57	734,000	734,200	80	28	2,19
726,600	726,800	80	17	1,30	734,200	734,400	80	30	2,34
726,800	727,000	80	17	1,30	734,400	734,600	80	27	2,04
727,000	727,200	50	23	1,80	734,600	734,800	80	22	1,67
727,200	727,400	50	20	1,57	734,800	735,000	80	24	1,82
727,400	727,600	50	20	1,51	735,000	735,200	80	29	2,26
727,600	727,800	50	19	1,45	735,200	735,400	80	31	2,41
727,800	728,000	50	18	1,40	735,400	735,600	80	33	2,56
728,000	728,200	50	17	1,34	735,600	735,800	80	38	2,93
728,200	728,400	50	19	1,45	735,800	736,000	80	26	1,97
728,400	728,600	80	19	1,45	736,000	736,200	80	22	1,67
728,600	728,800	80	22	1,67	736,200	736,400	80	28	2,19
728,800	729,000	80	18	1,37	736,400	736,600	80	24	1,82
729,000	729,200	80	19	1,45	736,600	736,800	80	30	2,34
729,200	729,400	50	23	1,74	736,800	737,000	80	26	1,97
729,400	729,600	50	22	1,68	737,000	737,200	80	28	2,12
729,600	729,800	50	26	1,97	737,200	737,400	80	24	1,82
729,800	730,000	50	28	2,15	737,400	737,600	80	36	2,78
730,000	730,200	50	21	1,63	737,600	737,800	80	22	1,67
730,200	730,400	50	22	1,68	737,800	738,000	80	28	2,19
730,400	730,600	50	24	1,86	738,000	738,200	80	34	2,64
730,600	730,800	50	26	1,97	738,200	738,400	80	32	2,49
730,800	731,000	80	18	1,37	738,400	738,600	80	25	1,89
731,000	731,200	80	23	1,74	738,600	738,800	80	34	2,64
731,200	731,400	80	25	1,89	738,800	739,000	50	37	2,84
731,400	731,600	80	20	1,52	739,000	739,200	50	35	2,66
731,600	731,800	80	38	2,93	739,200	739,400	50	28	2,15
731,800	732,000	80	36	2,78	739,400	739,600	50	38	2,95
732,000	732,200	80	22	1,67	739,600	739,800	50	41	3,18
732,200	732,400	80	25	1,89	739,800	740,000	50	25	1,91
732,400	732,600	80	28	2,12	740,000	740,200	50	39	3,01
732,600	732,800	80	27	2,04	740,200	740,400	50	40	3,07

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
740,400	740,600	50	28		2,15	748,000	748,200	50	
740,600	740,800	50	28	2,15	748,200	748,400	50	35	2,72
740,800	741,000	50	41	3,12	748,400	748,600	50	29	2,26
741,000	741,200	50	40	3,07	748,600	748,800	50	23	1,80
741,200	741,400	50	38	2,89	748,800	749,000	80	27	2,04
741,400	741,600	50	35	2,66	749,000	749,200	80	28	2,19
741,600	741,800	50	32	2,49	749,200	749,400	80	25	1,89
741,800	742,000	50	23	1,74	749,400	749,600	80	21	1,60
742,000	742,200	50	25	1,91	749,600	749,800	80	25	1,89
742,200	742,400	50	35	2,72	749,800	750,000	80	19	1,45
742,400	742,600	50	34	2,61	750,000	750,200	80	20	1,52
742,600	742,800	50	24	1,86	750,200	750,400	80	18	1,37
742,800	743,000	50	26	2,03	750,400	750,600	80	22	1,67
743,000	743,200	50	26	2,03	750,600	750,800	80	27	2,04
743,200	743,400	50	27	2,09	750,800	751,000	80	27	2,04
743,400	743,600	50	31	2,38	751,000	751,200	50	26	2,03
743,600	743,800	50	29	2,26	751,200	751,400	50	23	1,80
743,800	744,000	50	39	3,01	751,400	751,600	50	20	1,51
744,000	744,200	50	32	2,43	751,600	751,800	50	32	2,49
744,200	744,400	50	30	2,32	751,800	752,000	50	33	2,55
744,400	744,600	80	29	2,26	752,000	752,200	80	43	3,30
744,600	744,800	80	25	1,89	752,200	752,400	80	36	2,78
744,800	745,000	80	27	2,04	752,400	752,600	80	30	2,34
745,000	745,200	50	34	2,61	752,600	752,800	80	25	1,89
745,200	745,400	50	41	3,12	752,800	753,000	80	23	1,74
745,400	745,600	50	32	2,43	753,000	753,200	80	28	2,12
745,600	745,800	50	40	3,07	753,200	753,400	50	32	2,49
745,800	746,000	50	43	3,30	753,400	753,600	50	31	2,38
746,000	746,200	50	34	2,61	753,600	753,800	50	29	2,26
746,200	746,400	50	40	3,07	753,800	754,000	50	32	2,43
746,400	746,600	50	34	2,61	754,000	754,200	80	27	2,04
746,600	746,800	50	28	2,15	754,200	754,400	80	31	2,41
746,800	747,000	50	28	2,15	754,400	754,600	50	32	2,49
747,000	747,200	50	26	1,97	754,600	754,800	50	32	2,43
747,200	747,400	50	29	2,20	754,800	755,000	50	32	2,43
747,400	747,600	50	29	2,26	755,000	755,200	50	38	2,89
747,600	747,800	50	27	2,09	755,200	755,400	50	46	3,53
747,800	748,000	50	39	3,01	755,400	755,600	50	26	2,03

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 1			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
755,600	755,800	50	23		1,74	763,200	763,400	50	
755,800	756,000	50	25	1,91	763,400	763,600	50	29	2,20
756,000	756,200	50	21	1,63	763,600	763,800	80	23	1,74
756,200	756,400	50	21	1,63	763,800	764,000	80	31	2,41
756,400	756,600	50	29	2,26	764,000	764,200	80	36	2,78
756,600	756,800	50	26	2,03	764,200	764,400	80	23	1,74
756,800	757,000	50	26	2,03	764,400	764,600	80	25	1,89
757,000	757,200	50	23	1,80	764,600	764,800	80	33	2,56
757,200	757,400	50	23	1,80	764,800	765,000	80	33	2,56
757,400	757,600	50	22	1,68	765,000	765,200	50	33	2,55
757,600	757,800	50	20	1,57	765,200	765,400	50	45	3,47
757,800	758,000	50	20	1,51	765,400	765,600	30	72	5,51
758,000	758,200	50	28	2,15	765,600	765,800	50	55	4,22
758,200	758,400	50	22	1,68	765,800	766,000	80	39	3,01
758,400	758,600	50	23	1,80	766,000	766,200	80	39	3,01
758,600	758,800	50	24	1,86	766,200	766,400	80	30	2,34
758,800	759,000	80	22	1,67	766,400	766,600	80	33	2,56
759,000	759,200	80	25	1,89	766,600	766,800	80	36	2,78
759,200	759,400	80	34	2,64	766,800	767,000	80	36	2,78
759,400	759,600	80	24	1,82	767,000	767,200	80	40	3,08
759,600	759,800	80	29	2,26	767,200	767,400	80	39	3,01
759,800	760,000	80	32	2,49	767,400	767,600	80	26	1,97
760,000	760,200	50	39	3,01	767,600	767,800	80	32	2,49
760,200	760,400	50	28	2,15	767,800	768,000	80	27	2,04
760,400	760,600	80	32	2,49	768,000	768,200	80	29	2,26
760,600	760,800	80	31	2,41	768,200	768,400	80	31	2,41
760,800	761,000	80	52	3,97	768,400	768,600	80	28	2,12
761,000	761,200	80	29	2,26	768,600	768,800	80	21	1,60
761,200	761,400	80	39	3,01	768,800	769,000	80	29	2,26
761,400	761,600	80	35	2,71	769,000	769,200	80	32	2,49
761,600	761,800	80	30	2,34	769,200	769,400	80	34	2,64
761,800	762,000	80	28	2,19	769,400	769,600	80	29	2,26
762,000	762,200	80	24	1,82	769,600	769,800	80	26	1,97
762,200	762,400	80	36	2,78	769,800	770,000	80	33	2,56
762,400	762,600	80	51	3,90	770,000	770,200	80	33	2,56
762,600	762,800	50	41	3,18	770,200	770,400	80	39	3,01
762,800	763,000	50	50	3,82	770,400	770,600	80	41	3,15
763,000	763,200	50	33	2,55	770,600	770,800	80	44	3,38

[illegible]

[illegible]

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
470,600	470,800	30	35	2,67	478,200	478,400	80	38	2,93
470,800	471,000	50	29	2,21	478,400	478,600	80	71	5,50
471,000	471,200	50	32	2,44	478,600	478,800	80	58	4,47
471,200	471,400	50	23	1,80	478,800	479,000	80	53	4,11
471,400	471,600	80	25	1,91	479,000	479,200	80	60	4,62
471,600	471,800	80	26	1,98	479,200	479,400	80	64	4,91
471,800	472,000	80	22	1,69	479,400	479,600	80	40	3,08
472,000	472,200	80	36	2,79	479,600	479,800	80	37	2,86
472,200	472,400	80	36	2,79	479,800	480,000	80	40	3,08
472,400	472,600	80	48	3,67	480,000	480,200	80	45	3,45
472,600	472,800	80	29	2,20	480,200	480,400	80	74	5,72
472,800	473,000	80	16	1,25	480,400	480,600	80	45	3,45
473,000	473,200	80	26	1,98	480,600	480,800	80	50	3,81
473,200	473,400	80	48	3,67	480,800	481,000	80	28	2,13
473,400	473,600	80	31	2,42	481,000	481,200	80	39	3,01
473,600	473,800	80	21	1,61	481,200	481,400	80	41	3,15
473,800	474,000	80	22	1,69	481,400	481,600	80	36	2,79
474,000	474,200	80	25	1,91	481,600	481,800	80	63	4,84
474,200	474,400	80	22	1,69	481,800	482,000	80	46	3,52
474,400	474,600	80	24	1,83	482,000	482,200	80	84	6,45
474,600	474,800	80	24	1,83	482,200	482,400	80	86	6,60
474,800	475,000	80	48	3,67	482,400	482,600	80	63	4,84
475,000	475,200	80	37	2,86	482,600	482,800	80	51	3,89
475,200	475,400	80	23	1,76	482,800	483,000	80	53	4,11
475,400	475,600	80	29	2,20	483,000	483,200	80	39	3,01
475,600	475,800	80	51	3,89	483,200	483,400	80	41	3,15
475,800	476,000	80	27	2,05	483,400	483,600	80	48	3,67
476,000	476,200	80	29	2,20	483,600	483,800	80	37	2,86
476,200	476,400	80	39	3,01	483,800	484,000	80	56	4,33
476,400	476,600	80	45	3,45	484,000	484,200	80	56	4,33
476,600	476,800	80	27	2,05	484,200	484,400	80	57	4,40
476,800	477,000	80	35	2,71	484,400	484,600	80	66	5,06
477,000	477,200	80	41	3,15	484,600	484,800	80	61	4,69
477,200	477,400	80	50	3,81	484,800	485,000	80	80	6,16
477,400	477,600	80	46	3,52	485,000	485,200	80	74	5,72
477,600	477,800	80	58	4,47	485,200	485,400	80	98	7,55
477,800	478,000	80	51	3,89	485,400	485,600	80	87	6,67
478,000	478,200	80	62	4,77	485,600	485,800	80	44	3,37

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
485,800	486,000	80	55	4,25	493,400	493,600	80	42	3,23
486,000	486,200	80	63	4,84	493,600	493,800	80	25	1,91
486,200	486,400	80	43	3,30	493,800	494,000	80	27	2,05
486,400	486,600	80	47	3,59	494,000	494,200	80	35	2,71
486,600	486,800	80	42	3,23	494,200	494,400	80	45	3,45
486,800	487,000	80	70	5,35	494,400	494,600	80	20	1,54
487,000	487,200	80	40	3,08	494,600	494,800	80	41	3,15
487,200	487,400	80	41	3,15	494,800	495,000	80	22	1,69
487,400	487,600	80	76	5,87	495,000	495,200	80	27	2,05
487,600	487,800	80	60	4,62	495,200	495,400	80	22	1,69
487,800	488,000	80	50	3,81	495,400	495,600	80	31	2,42
488,000	488,200	80	61	4,69	495,600	495,800	80	39	3,01
488,200	488,400	80	48	3,67	495,800	496,000	80	63	4,84
488,400	488,600	80	79	6,09	496,000	496,200	80	89	6,82
488,600	488,800	80	67	5,13	496,200	496,400	80	51	3,89
488,800	489,000	80	45	3,45	496,400	496,600	80	71	5,43
489,000	489,200	80	58	4,47	496,600	496,800	80	51	3,96
489,200	489,400	80	57	4,40	496,800	497,000	80	26	1,98
489,400	489,600	80	55	4,25	497,000	497,200	80	34	2,64
489,600	489,800	80	66	5,06	497,200	497,400	80	44	3,37
489,800	490,000	80	74	5,72	497,400	497,600	80	31	2,42
490,000	490,200	80	86	6,60	497,600	497,800	80	39	3,01
490,200	490,400	80	82	6,31	497,800	498,000	80	45	3,45
490,400	490,600	80	95	7,33	498,000	498,200	80	48	3,67
490,600	490,800	80	70	5,35	498,200	498,400	80	43	3,30
490,800	491,000	80	87	6,67	498,400	498,600	80	17	1,32
491,000	491,200	80	104	7,99	498,600	498,800	80	16	1,25
491,200	491,400	80	115	8,87	498,800	499,000	80	18	1,39
491,400	491,600	80	64	4,91	499,000	499,200	80	32	2,49
491,600	491,800	80	38	2,93	499,200	499,400	80	16	1,25
491,800	492,000	80	29	2,20	499,400	499,600	80	40	3,08
492,000	492,200	80	30	2,27	499,600	499,800	80	18	1,39
492,200	492,400	80	22	1,69	499,800	500,000	80	18	1,39
492,400	492,600	80	38	2,93	500,000	500,200	80	20	1,54
492,600	492,800	80	30	2,27	500,200	500,400	80	32	2,49
492,800	493,000	80	30	2,27	500,400	500,600	80	53	4,11
493,000	493,200	80	34	2,64	500,600	500,800	80	23	1,76
493,200	493,400	80	32	2,49	500,800	501,000	80	34	2,64

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
501,000	501,200	80	34	2,64	508,600	508,800	50	19	1,45
501,200	501,400	80	22	1,69	508,800	509,000	50	40	3,08
501,400	501,600	80	50	3,81	509,000	509,200	50	45	3,43
501,600	501,800	80	35	2,71	509,200	509,400	50	35	2,67
501,800	502,000	80	31	2,42	509,400	509,600	50	36	2,73
502,000	502,200	80	60	4,62	509,600	509,800	50	53	4,07
502,200	502,400	80	26	1,98	509,800	510,000	50	42	3,26
502,400	502,600	80	40	3,08	510,000	510,200	80	41	3,15
502,600	502,800	80	46	3,52	510,200	510,400	80	48	3,67
502,800	503,000	80	61	4,69	510,400	510,600	80	63	4,84
503,000	503,200	80	24	1,83	510,600	510,800	80	26	1,98
503,200	503,400	80	27	2,05	510,800	511,000	80	40	3,08
503,400	503,600	80	29	2,20	511,000	511,200	80	51	3,96
503,600	503,800	80	25	1,91	511,200	511,400	80	49	3,74
503,800	504,000	50	22	1,68	511,400	511,600	80	58	4,47
504,000	504,200	50	26	2,03	511,600	511,800	80	58	4,47
504,200	504,400	30	40	3,04	511,800	512,000	80	69	5,28
504,400	504,600	80	32	2,49	512,000	512,200	80	40	3,08
504,600	504,800	80	36	2,79	512,200	512,400	80	22	1,69
504,800	505,000	80	37	2,86	512,400	512,600	80	29	2,20
505,000	505,200	80	36	2,79	512,600	512,800	80	14	1,10
505,200	505,400	80	19	1,47	512,800	513,000	80	24	1,83
505,400	505,600	80	51	3,89	513,000	513,200	80	29	2,20
505,600	505,800	80	46	3,52	513,200	513,400	80	35	2,71
505,800	506,000	80	35	2,71	513,400	513,600	80	31	2,35
506,000	506,200	80	36	2,79	513,600	513,800	80	19	1,47
506,200	506,400	80	45	3,45	513,800	514,000	80	36	2,79
506,400	506,600	80	38	2,93	514,000	514,200	80	38	2,93
506,600	506,800	80	38	2,93	514,200	514,400	80	46	3,52
506,800	507,000	50	30	2,32	514,400	514,600	50	34	2,62
507,000	507,200	50	29	2,27	514,600	514,800	50	42	3,26
507,200	507,400	50	21	1,63	514,800	515,000	50	40	3,08
507,400	507,600	50	26	2,03	515,000	515,200	80	27	2,05
507,600	507,800	50	18	1,39	515,200	515,400	80	35	2,71
507,800	508,000	80	14	1,10	515,400	515,600	80	17	1,32
508,000	508,200	80	19	1,47	515,600	515,800	80	13	1,03
508,200	508,400	80	27	2,05	515,800	516,000	50	23	1,80
508,400	508,600	50	23	1,80	516,000	516,200	50	31	2,38

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
516,200	516,400	50	33	2,56	523,800	524,000	50	67	5,12
516,400	516,600	50	46	3,55	524,000	524,200	50	66	5,06
516,600	516,800	50	48	3,66	524,200	524,400	50	61	4,65
516,800	517,000	50	26	1,97	524,400	524,600	50	23	1,74
517,000	517,200	50	22	1,68	524,600	524,800	80	17	1,32
517,200	517,400	80	20	1,54	524,800	525,000	80	17	1,32
517,400	517,600	80	32	2,49	525,000	525,200	80	24	1,83
517,600	517,800	80	36	2,79	525,200	525,400	80	26	1,98
517,800	518,000	80	42	3,23	525,400	525,600	80	27	2,05
518,000	518,200	80	32	2,49	525,600	525,800	80	22	1,69
518,200	518,400	80	20	1,54	525,800	526,000	80	24	1,83
518,400	518,600	80	35	2,71	526,000	526,200	80	23	1,76
518,600	518,800	80	27	2,05	526,200	526,400	80	23	1,76
518,800	519,000	80	31	2,42	526,400	526,600	80	19	1,47
519,000	519,200	80	31	2,35	526,600	526,800	80	17	1,32
519,200	519,400	80	39	3,01	526,800	527,000	80	22	1,69
519,400	519,600	80	39	3,01	527,000	527,200	80	24	1,83
519,600	519,800	80	35	2,71	527,200	527,400	50	66	5,06
519,800	520,000	80	39	3,01	527,400	527,600	50	71	5,47
520,000	520,200	80	34	2,64	527,600	527,800	50	51	3,90
520,200	520,400	80	35	2,71	527,800	528,000	50	53	4,07
520,400	520,600	80	44	3,37	528,000	528,200	50	54	4,13
520,600	520,800	80	33	2,57	528,200	528,400	50	53	4,07
520,800	521,000	80	35	2,71	528,400	528,600	50	54	4,13
521,000	521,200	80	39	3,01	528,600	528,800	50	43	3,31
521,200	521,400	80	36	2,79	528,800	529,000	50	47	3,61
521,400	521,600	80	43	3,30	529,000	529,200	50	56	4,30
521,600	521,800	80	52	4,03	529,200	529,400	30	54	4,14
521,800	522,000	80	52	4,03	529,400	529,600	30	55	4,24
522,000	522,200	80	43	3,30	529,600	529,800	30	66	5,06
522,200	522,400	80	34	2,64	529,800	530,000	50	68	5,24
522,400	522,600	80	32	2,49	530,000	530,200	50	58	4,48
522,600	522,800	80	32	2,49	530,200	530,400	50	45	3,43
522,800	523,000	80	38	2,93	530,400	530,600	50	62	4,77
523,000	523,200	80	53	4,11	530,600	530,800	50	47	3,61
523,200	523,400	80	39	3,01	530,800	531,000	50	42	3,26
523,400	523,600	80	53	4,11	531,000	531,200	50	60	4,60
523,600	523,800	50	51	3,90	531,200	531,400	50	61	4,65

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

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Crescente / Faixa 2			jan/2007	
INICIO					FINAL				
km 544,000					km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
544,000	544,200	50	33	2,55	551,600	551,800	80	28	2,19
544,200	544,400	50	36	2,78	551,800	552,000	80	28	2,19
544,400	544,600	50	44	3,41	552,000	552,200	80	30	2,34
544,600	544,800	80	45	3,45	552,200	552,400	80	26	1,97
544,800	545,000	80	48	3,67	552,400	552,600	80	21	1,60
545,000	545,200	80	48	3,67	552,600	552,800	80	23	1,74
545,200	545,400	80	35	2,71	552,800	553,000	80	29	2,26
545,400	545,600	80	42	3,23	553,000	553,200	80	29	2,26
545,600	545,800	80	45	3,45	553,200	553,400	80	26	1,97
545,800	546,000	80	40	3,08	553,400	553,600	50	29	2,20
546,000	546,200	80	35	2,71	553,600	553,800	50	28	2,15
546,200	546,400	80	34	2,64	553,800	554,000	50	31	2,38
546,400	546,600	80	46	3,53	554,000	554,200	50	32	2,43
546,600	546,800	80	67	5,16	554,200	554,400	80	42	3,23
546,800	547,000	80	29	2,26	554,400	554,600	80	44	3,38
547,000	547,200	80	32	2,49	554,600	554,800	80	30	2,34
547,200	547,400	80	50	3,82	554,800	555,000	80	38	2,93
547,400	547,600	80	40	3,08	555,000	555,200	80	53	4,05
547,600	547,800	80	36	2,78	555,200	555,400	80	40	3,08
547,800	548,000	80	36	2,78	555,400	555,600	80	50	3,82
548,000	548,200	80	31	2,41	555,600	555,800	80	39	3,01
548,200	548,400	80	33	2,56	555,800	556,000	80	45	3,45
548,400	548,600	80	33	2,56	556,000	556,200	80	42	3,23
548,600	548,800	80	29	2,26	556,200	556,400	80	35	2,71
548,800	549,000	80	35	2,71	556,400	556,600	80	44	3,38
549,000	549,200	80	23	1,74	556,600	556,800	80	42	3,23
549,200	549,400	80	27	2,04	556,800	557,000	80	49	3,75
549,400	549,600	80	26	1,97	557,000	557,200	80	59	4,57
549,600	549,800	80	24	1,82	557,200	557,400	80	40	3,08
549,800	550,000	80	25	1,89	557,400	557,600	80	54	4,12
550,000	550,200	80	23	1,74	557,600	557,800	80	60	4,64
550,200	550,400	80	28	2,12	557,800	558,000	80	52	3,97
550,400	550,600	80	24	1,82	558,000	558,200	80	53	4,05
550,600	550,800	80	29	2,26	558,200	558,400	80	49	3,75
550,800	551,000	80	28	2,19	558,400	558,600	80	42	3,23
551,000	551,200	80	22	1,67	558,600	558,800	80	30	2,34
551,200	551,400	80	30	2,34	558,800	559,000	80	51	3,90
551,400	551,600	80	35	2,71	559,000	559,200	80	31	2,41

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
559,200	559,400	80	25	1,89	566,800	567,000	80	26	1,97
559,400	559,600	80	52	3,97	567,000	567,200	80	45	3,45
559,600	559,800	80	61	4,71	567,200	567,400	80	48	3,67
559,800	560,000	80	59	4,57	567,400	567,600	80	56	4,34
560,000	560,200	80	70	5,38	567,600	567,800	80	46	3,53
560,200	560,400	80	68	5,23	567,800	568,000	80	56	4,34
560,400	560,600	80	58	4,49	568,000	568,200	80	45	3,45
560,600	560,800	80	56	4,34	568,200	568,400	80	46	3,53
560,800	561,000	80	58	4,49	568,400	568,600	80	39	3,01
561,000	561,200	80	73	5,60	568,600	568,800	80	36	2,78
561,200	561,400	80	39	3,01	568,800	569,000	80	31	2,41
561,400	561,600	80	41	3,15	569,000	569,200	80	40	3,08
561,600	561,800	80	42	3,23	569,200	569,400	80	33	2,56
561,800	562,000	80	42	3,23	569,400	569,600	80	28	2,19
562,000	562,200	80	42	3,23	569,600	569,800	80	33	2,56
562,200	562,400	80	35	2,71	569,800	570,000	80	37	2,86
562,400	562,600	80	34	2,64	570,000	570,200	80	37	2,86
562,600	562,800	80	40	3,08	570,200	570,400	80	28	2,19
562,800	563,000	80	44	3,38	570,400	570,600	80	35	2,71
563,000	563,200	80	44	3,38	570,600	570,800	80	51	3,90
563,200	563,400	80	56	4,34	570,800	571,000	80	52	3,97
563,400	563,600	80	66	5,08	571,000	571,200	80	33	2,56
563,600	563,800	80	57	4,42	571,200	571,400	80	34	2,64
563,800	564,000	80	50	3,82	571,400	571,600	80	42	3,23
564,000	564,200	80	32	2,49	571,600	571,800	80	33	2,56
564,200	564,400	80	53	4,05	571,800	572,000	80	29	2,26
564,400	564,600	80	57	4,42	572,000	572,200	80	37	2,86
564,600	564,800	80	30	2,34	572,200	572,400	80	42	3,23
564,800	565,000	80	48	3,67	572,400	572,600	80	73	5,60
565,000	565,200	80	60	4,64	572,600	572,800	80	44	3,38
565,200	565,400	80	55	4,27	572,800	573,000	80	28	2,19
565,400	565,600	80	62	4,79	573,000	573,200	80	31	2,41
565,600	565,800	80	42	3,23	573,200	573,400	80	41	3,15
565,800	566,000	80	28	2,12	573,400	573,600	80	83	6,35
566,000	566,200	80	51	3,90	573,600	573,800	80	79	6,05
566,200	566,400	80	60	4,64	573,800	574,000	80	64	4,94
566,400	566,600	80	48	3,67	574,000	574,200	80	32	2,49
566,600	566,800	80	26	1,97	574,200	574,400	80	29	2,26

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
574,400	574,600	80	33	2,56	582,000	582,200	80	56	4,34
574,600	574,800	80	33	2,56	582,200	582,400	80	49	3,75
574,800	575,000	80	36	2,78	582,400	582,600	80	55	4,27
575,000	575,200	80	40	3,08	582,600	582,800	80	73	5,60
575,200	575,400	80	39	3,01	582,800	583,000	80	33	2,56
575,400	575,600	80	42	3,23	583,000	583,200	80	34	2,64
575,600	575,800	80	79	6,05	583,200	583,400	80	43	3,30
575,800	576,000	80	85	6,57	583,400	583,600	80	54	4,12
576,000	576,200	80	71	5,46	583,600	583,800	80	80	6,12
576,200	576,400	80	46	3,53	583,800	584,000	80	45	3,45
576,400	576,600	80	44	3,38	584,000	584,200	80	90	6,94
576,600	576,800	80	59	4,57	584,200	584,400	80	67	5,16
576,800	577,000	80	38	2,93	584,400	584,600	80	55	4,19
577,000	577,200	80	44	3,38	584,600	584,800	80	72	5,53
577,200	577,400	80	60	4,64	584,800	585,000	80	59	4,57
577,400	577,600	80	69	5,31	585,000	585,200	80	58	4,49
577,600	577,800	80	34	2,64	585,200	585,400	80	56	4,34
577,800	578,000	80	30	2,34	585,400	585,600	80	38	2,93
578,000	578,200	80	39	3,01	585,600	585,800	80	34	2,64
578,200	578,400	80	43	3,30	585,800	586,000	80	35	2,71
578,400	578,600	80	73	5,60	586,000	586,200	80	43	3,30
578,600	578,800	80	77	5,90	586,200	586,400	80	44	3,38
578,800	579,000	80	64	4,94	586,400	586,600	80	31	2,41
579,000	579,200	80	46	3,53	586,600	586,800	80	30	2,34
579,200	579,400	80	77	5,90	586,800	587,000	80	41	3,15
579,400	579,600	50	31	2,38	587,000	587,200	80	49	3,75
579,600	579,800	50	51	3,93	587,200	587,400	80	37	2,86
579,800	580,000	50	26	1,97	587,400	587,600	80	41	3,15
580,000	580,200	80	43	3,30	587,600	587,800	80	30	2,34
580,200	580,400	80	33	2,56	587,800	588,000	80	57	4,42
580,400	580,600	80	69	5,31	588,000	588,200	80	63	4,86
580,600	580,800	80	94	7,24	588,200	588,400	80	43	3,30
580,800	581,000	80	77	5,90	588,400	588,600	80	42	3,23
581,000	581,200	80	78	5,98	588,600	588,800	30	37	2,81
581,200	581,400	80	55	4,27	588,800	589,000	30	38	2,90
581,400	581,600	80	62	4,79	589,000	589,200	50	35	2,72
581,600	581,800	80	55	4,27	589,200	589,400	30	43	3,28
581,800	582,000	80	72	5,53	589,400	589,600	50	53	4,05

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
589,600	589,800	80	59	4,57	597,200	597,400	80	49	3,75
589,800	590,000	80	62	4,79	597,400	597,600	80	67	5,16
590,000	590,200	80	35	2,71	597,600	597,800	80	55	4,27
590,200	590,400	50	55	4,22	597,800	598,000	80	51	3,90
590,400	590,600	50	41	3,18	598,000	598,200	80	45	3,45
590,600	590,800	50	38	2,95	598,200	598,400	80	73	5,60
590,800	591,000	50	55	4,22	598,400	598,600	80	69	5,31
591,000	591,200	50	60	4,62	598,600	598,800	80	70	5,38
591,200	591,400	50	32	2,49	598,800	599,000	80	60	4,64
591,400	591,600	50	43	3,30	599,000	599,200	80	54	4,12
591,600	591,800	50	54	4,16	599,200	599,400	80	64	4,94
591,800	592,000	50	45	3,47	599,400	599,600	80	58	4,49
592,000	592,200	50	63	4,85	599,600	599,800	80	83	6,35
592,200	592,400	50	43	3,30	599,800	600,000	80	84	6,50
592,400	592,600	50	75	5,77	600,000	600,200	80	49	3,75
592,600	592,800	50	56	4,28	600,200	600,400	80	52	3,97
592,800	593,000	50	40	3,07	600,400	600,600	80	65	5,01
593,000	593,200	50	54	4,16	600,600	600,800	80	46	3,53
593,200	593,400	50	42	3,24	600,800	601,000	80	31	2,41
593,400	593,600	50	35	2,72	601,000	601,200	80	28	2,12
593,600	593,800	50	56	4,28	601,200	601,400	80	55	4,19
593,800	594,000	50	102	7,85	601,400	601,600	80	59	4,57
594,000	594,200	50	96	7,39	601,600	601,800	80	58	4,49
594,200	594,400	50	66	5,08	601,800	602,000	80	40	3,08
594,400	594,600	30	49	3,76	602,000	602,200	80	34	2,64
594,600	594,800	30	32	2,43	602,200	602,400	80	28	2,19
594,800	595,000	30	102	7,82	602,400	602,600	80	28	2,19
595,000	595,200	50	100	7,68	602,600	602,800	80	29	2,26
595,200	595,400	50	64	4,91	602,800	603,000	80	43	3,30
595,400	595,600	80	68	5,23	603,000	603,200	80	46	3,53
595,600	595,800	80	55	4,19	603,200	603,400	80	67	5,16
595,800	596,000	80	28	2,19	603,400	603,600	80	48	3,67
596,000	596,200	80	52	3,97	603,600	603,800	80	46	3,53
596,200	596,400	80	82	6,27	603,800	604,000	80	80	6,12
596,400	596,600	80	73	5,60	604,000	604,200	80	66	5,08
596,600	596,800	80	50	3,82	604,200	604,400	80	62	4,79
596,800	597,000	80	39	3,01	604,400	604,600	80	61	4,71
597,000	597,200	80	38	2,93	604,600	604,800	80	69	5,31

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
604,800	605,000	80	73	5,60	612,400	612,600	80	41	3,15
605,000	605,200	80	93	7,16	612,600	612,800	80	53	4,05
605,200	605,400	80	96	7,39	612,800	613,000	80	56	4,34
605,400	605,600	80	71	5,46	613,000	613,200	80	66	5,08
605,600	605,800	80	48	3,67	613,200	613,400	80	51	3,90
605,800	606,000	80	38	2,93	613,400	613,600	80	41	3,15
606,000	606,200	80	26	1,97	613,600	613,800	80	34	2,64
606,200	606,400	50	40	3,07	613,800	614,000	50	41	3,12
606,400	606,600	50	45	3,47	614,000	614,200	50	53	4,10
606,600	606,800	50	43	3,30	614,200	614,400	50	49	3,76
606,800	607,000	50	44	3,36	614,400	614,600	50	44	3,41
607,000	607,200	80	45	3,45	614,600	614,800	50	49	3,76
607,200	607,400	80	50	3,82	614,800	615,000	80	50	3,82
607,400	607,600	80	47	3,60	615,000	615,200	80	49	3,75
607,600	607,800	80	40	3,08	615,200	615,400	50	83	6,41
607,800	608,000	80	29	2,26	615,400	615,600	50	62	4,80
608,000	608,200	80	37	2,86	615,600	615,800	80	30	2,34
608,200	608,400	80	35	2,71	615,800	616,000	80	30	2,34
608,400	608,600	80	42	3,23	616,000	616,200	80	33	2,56
608,600	608,800	80	40	3,08	616,200	616,400	80	58	4,49
608,800	609,000	80	41	3,15	616,400	616,600	80	55	4,19
609,000	609,200	80	31	2,41	616,600	616,800	80	69	5,31
609,200	609,400	80	29	2,26	616,800	617,000	80	70	5,38
609,400	609,600	80	39	3,01	617,000	617,200	80	51	3,90
609,600	609,800	80	39	3,01	617,200	617,400	80	47	3,60
609,800	610,000	80	29	2,26	617,400	617,600	80	40	3,08
610,000	610,200	80	29	2,26	617,600	617,800	80	28	2,12
610,200	610,400	30	28	2,15	617,800	618,000	80	24	1,82
610,400	610,600	50	44	3,36	618,000	618,200	80	26	1,97
610,600	610,800	50	53	4,10	618,200	618,400	80	28	2,19
610,800	611,000	50	32	2,49	618,400	618,600	80	35	2,71
611,000	611,200	50	41	3,18	618,600	618,800	80	32	2,49
611,200	611,400	50	47	3,59	618,800	619,000	80	47	3,60
611,400	611,600	50	56	4,28	619,000	619,200	80	80	6,12
611,600	611,800	80	43	3,30	619,200	619,400	80	56	4,34
611,800	612,000	80	31	2,41	619,400	619,600	80	65	5,01
612,000	612,200	80	45	3,45	619,600	619,800	80	71	5,46
612,200	612,400	80	30	2,34	619,800	620,000	80	63	4,86

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
620,000	620,200	80	68	5,23	627,600	627,800	50	65	5,03
620,200	620,400	80	64	4,94	627,800	628,000	50	77	5,95
620,400	620,600	80	59	4,57	628,000	628,200	50	115	8,83
620,600	620,800	80	85	6,57	628,200	628,400	50	85	6,52
620,800	621,000	80	62	4,79	628,400	628,600	50	81	6,24
621,000	621,200	80	46	3,53	628,600	628,800	50	68	5,20
621,200	621,400	80	27	2,04	628,800	629,000	50	57	4,39
621,400	621,600	80	31	2,41	629,000	629,200	30	65	4,99
621,600	621,800	80	58	4,49	629,200	629,400	30	49	3,80
621,800	622,000	80	69	5,31	629,400	629,600	50	69	5,31
622,000	622,200	80	61	4,71	629,600	629,800	50	107	8,19
622,200	622,400	80	104	7,98	629,800	630,000	50	83	6,41
622,400	622,600	80	88	6,79	630,000	630,200	50	88	6,75
622,600	622,800	80	99	7,61	630,200	630,400	50	52	3,99
622,800	623,000	80	60	4,64	630,400	630,600	50	65	5,03
623,000	623,200	80	65	5,01	630,600	630,800	50	88	6,75
623,200	623,400	80	46	3,53	630,800	631,000	50	66	5,08
623,400	623,600	80	72	5,53	631,000	631,200	50	46	3,53
623,600	623,800	80	45	3,45	631,200	631,400	50	26	2,03
623,800	624,000	80	48	3,67	631,400	631,600	50	41	3,18
624,000	624,200	80	46	3,53	631,600	631,800	50	36	2,78
624,200	624,400	80	73	5,60	631,800	632,000	50	53	4,05
624,400	624,600	80	61	4,71	632,000	632,200	50	62	4,74
624,600	624,800	80	83	6,35	632,200	632,400	50	46	3,53
624,800	625,000	80	39	3,01	632,400	632,600	80	39	3,01
625,000	625,200	80	57	4,42	632,600	632,800	80	53	4,05
625,200	625,400	80	82	6,27	632,800	633,000	80	55	4,19
625,400	625,600	80	67	5,16	633,000	633,200	80	53	4,05
625,600	625,800	80	52	3,97	633,200	633,400	80	37	2,86
625,800	626,000	30	82	6,31	633,400	633,600	80	55	4,19
626,000	626,200	30	129	9,95	633,600	633,800	80	53	4,05
626,200	626,400	30	132	10,14	633,800	634,000	80	45	3,45
626,400	626,600	30	115	8,87	634,000	634,200	80	42	3,23
626,600	626,800	30	104	7,97	634,200	634,400	80	41	3,15
626,800	627,000	50	108	8,31	634,400	634,600	80	42	3,23
627,000	627,200	50	80	6,12	634,600	634,800	80	55	4,27
627,200	627,400	50	49	3,76	634,800	635,000	80	48	3,67
627,400	627,600	50	66	5,08	635,000	635,200	80	48	3,67

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
635,200	635,400	80	53	4,05	642,800	643,000	80	31	2,41
635,400	635,600	80	50	3,82	643,000	643,200	80	37	2,86
635,600	635,800	80	47	3,60	643,200	643,400	80	37	2,86
635,800	636,000	80	55	4,27	643,400	643,600	80	33	2,56
636,000	636,200	80	54	4,12	643,600	643,800	80	42	3,23
636,200	636,400	80	44	3,38	643,800	644,000	80	49	3,75
636,400	636,600	80	50	3,82	644,000	644,200	80	49	3,75
636,600	636,800	80	55	4,27	644,200	644,400	80	51	3,90
636,800	637,000	80	43	3,30	644,400	644,600	80	61	4,71
637,000	637,200	80	35	2,71	644,600	644,800	80	62	4,79
637,200	637,400	80	45	3,45	644,800	645,000	80	45	3,45
637,400	637,600	80	47	3,60	645,000	645,200	80	54	4,12
637,600	637,800	80	52	3,97	645,200	645,400	80	42	3,23
637,800	638,000	80	66	5,08	645,400	645,600	80	35	2,71
638,000	638,200	80	48	3,67	645,600	645,800	80	39	3,01
638,200	638,400	80	34	2,64	645,800	646,000	80	33	2,56
638,400	638,600	80	46	3,53	646,000	646,200	80	41	3,15
638,600	638,800	80	53	4,05	646,200	646,400	80	34	2,64
638,800	639,000	80	52	3,97	646,400	646,600	80	40	3,08
639,000	639,200	80	55	4,19	646,600	646,800	80	48	3,67
639,200	639,400	80	43	3,30	646,800	647,000	80	42	3,23
639,400	639,600	80	46	3,53	647,000	647,200	80	49	3,75
639,600	639,800	80	40	3,08	647,200	647,400	80	45	3,45
639,800	640,000	80	38	2,93	647,400	647,600	50	31	2,38
640,000	640,200	80	37	2,86	647,600	647,800	50	37	2,84
640,200	640,400	80	44	3,38	647,800	648,000	30	49	3,76
640,400	640,600	80	40	3,08	648,000	648,200	30	62	4,80
640,600	640,800	80	48	3,67	648,200	648,400	50	66	5,08
640,800	641,000	80	44	3,38	648,400	648,600	50	45	3,47
641,000	641,200	80	54	4,12	648,600	648,800	80	45	3,45
641,200	641,400	80	43	3,30	648,800	649,000	80	63	4,86
641,400	641,600	80	40	3,08	649,000	649,200	80	49	3,75
641,600	641,800	80	40	3,08	649,200	649,400	80	55	4,19
641,800	642,000	80	56	4,34	649,400	649,600	80	52	3,97
642,000	642,200	80	52	3,97	649,600	649,800	80	51	3,90
642,200	642,400	80	54	4,12	649,800	650,000	80	24	1,82
642,400	642,600	80	42	3,23	650,000	650,200	80	19	1,45
642,600	642,800	80	33	2,56	650,200	650,400	80	27	2,04

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
650,400	650,600	80	34	2,64	658,000	658,200	80	34	2,64
650,600	650,800	80	27	2,04	658,200	658,400	80	26	1,97
650,800	651,000	80	39	3,01	658,400	658,600	50	26	1,97
651,000	651,200	80	33	2,56	658,600	658,800	50	26	1,97
651,200	651,400	80	29	2,26	658,800	659,000	50	42	3,24
651,400	651,600	80	47	3,60	659,000	659,200	50	41	3,12
651,600	651,800	50	29	2,26	659,200	659,400	50	32	2,43
651,800	652,000	50	27	2,09	659,400	659,600	80	26	1,97
652,000	652,200	50	23	1,80	659,600	659,800	80	32	2,49
652,200	652,400	80	27	2,04	659,800	660,000	80	40	3,08
652,400	652,600	80	37	2,86	660,000	660,200	80	46	3,53
652,600	652,800	80	46	3,53	660,200	660,400	80	29	2,26
652,800	653,000	80	28	2,12	660,400	660,600	80	24	1,82
653,000	653,200	50	40	3,07	660,600	660,800	80	28	2,12
653,200	653,400	30	34	2,62	660,800	661,000	80	34	2,64
653,400	653,600	30	29	2,24	661,000	661,200	80	23	1,74
653,600	653,800	50	34	2,61	661,200	661,400	80	39	3,01
653,800	654,000	50	28	2,15	661,400	661,600	80	35	2,71
654,000	654,200	50	39	3,01	661,600	661,800	80	31	2,41
654,200	654,400	50	33	2,55	661,800	662,000	80	49	3,75
654,400	654,600	50	34	2,61	662,000	662,200	80	35	2,71
654,600	654,800	50	29	2,26	662,200	662,400	80	37	2,86
654,800	655,000	50	26	2,03	662,400	662,600	80	28	2,12
655,000	655,200	80	30	2,34	662,600	662,800	80	26	1,97
655,200	655,400	80	32	2,49	662,800	663,000	80	25	1,89
655,400	655,600	80	58	4,49	663,000	663,200	80	24	1,82
655,600	655,800	80	39	3,01	663,200	663,400	80	22	1,67
655,800	656,000	80	62	4,79	663,400	663,600	80	23	1,74
656,000	656,200	80	46	3,53	663,600	663,800	80	25	1,89
656,200	656,400	80	33	2,56	663,800	664,000	80	28	2,19
656,400	656,600	80	17	1,30	664,000	664,200	80	35	2,71
656,600	656,800	80	18	1,37	664,200	664,400	80	32	2,49
656,800	657,000	80	17	1,30	664,400	664,600	80	33	2,56
657,000	657,200	80	22	1,67	664,600	664,800	80	28	2,12
657,200	657,400	80	28	2,19	664,800	665,000	80	34	2,64
657,400	657,600	80	27	2,04	665,000	665,200	50	36	2,78
657,600	657,800	80	27	2,04	665,200	665,400	50	29	2,26
657,800	658,000	80	30	2,34	665,400	665,600	50	31	2,38

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
665,600	665,800	50	23	1,80	673,200	673,400	80	23	1,74
665,800	666,000	50	24	1,86	673,400	673,600	80	22	1,67
666,000	666,200	50	26	1,97	673,600	673,800	80	24	1,82
666,200	666,400	50	28	2,15	673,800	674,000	80	34	2,64
666,400	666,600	50	27	2,09	674,000	674,200	80	28	2,12
666,600	666,800	80	18	1,37	674,200	674,400	80	25	1,89
666,800	667,000	80	20	1,52	674,400	674,600	80	28	2,12
667,000	667,200	80	28	2,12	674,600	674,800	80	28	2,12
667,200	667,400	80	30	2,34	674,800	675,000	80	26	1,97
667,400	667,600	80	28	2,19	675,000	675,200	80	28	2,12
667,600	667,800	80	36	2,78	675,200	675,400	80	26	1,97
667,800	668,000	80	38	2,93	675,400	675,600	80	29	2,26
668,000	668,200	80	26	1,97	675,600	675,800	80	27	2,04
668,200	668,400	80	39	3,01	675,800	676,000	80	28	2,19
668,400	668,600	80	27	2,04	676,000	676,200	80	51	3,90
668,600	668,800	80	36	2,78	676,200	676,400	80	23	1,74
668,800	669,000	80	38	2,93	676,400	676,600	80	30	2,34
669,000	669,200	80	37	2,86	676,600	676,800	80	26	1,97
669,200	669,400	80	49	3,75	676,800	677,000	80	23	1,74
669,400	669,600	80	19	1,45	677,000	677,200	80	30	2,34
669,600	669,800	80	18	1,37	677,200	677,400	80	34	2,64
669,800	670,000	80	23	1,74	677,400	677,600	80	27	2,04
670,000	670,200	80	22	1,67	677,600	677,800	80	28	2,12
670,200	670,400	80	45	3,45	677,800	678,000	80	34	2,64
670,400	670,600	80	41	3,15	678,000	678,200	80	29	2,26
670,600	670,800	80	36	2,78	678,200	678,400	80	30	2,34
670,800	671,000	80	24	1,82	678,400	678,600	80	26	1,97
671,000	671,200	80	25	1,89	678,600	678,800	80	28	2,12
671,200	671,400	80	43	3,30	678,800	679,000	80	37	2,86
671,400	671,600	80	32	2,49	679,000	679,200	80	35	2,71
671,600	671,800	80	47	3,60	679,200	679,400	80	34	2,64
671,800	672,000	80	40	3,08	679,400	679,600	80	35	2,71
672,000	672,200	80	23	1,74	679,600	679,800	80	39	3,01
672,200	672,400	80	24	1,82	679,800	680,000	50	37	2,84
672,400	672,600	80	28	2,19	680,000	680,200	30	49	3,80
672,600	672,800	80	26	1,97	680,200	680,400	30	31	2,38
672,800	673,000	80	44	3,38	680,400	680,600	50	29	2,20
673,000	673,200	80	19	1,45	680,600	680,800	50	25	1,91

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
680,800	681,000	50	32	2,43	688,400	688,600	80	19	1,45
681,000	681,200	50	30	2,32	688,600	688,800	80	22	1,67
681,200	681,400	50	35	2,72	688,800	689,000	80	24	1,82
681,400	681,600	80	39	3,01	689,000	689,200	80	20	1,52
681,600	681,800	80	35	2,71	689,200	689,400	80	21	1,60
681,800	682,000	80	29	2,26	689,400	689,600	80	21	1,60
682,000	682,200	80	29	2,26	689,600	689,800	80	22	1,67
682,200	682,400	80	33	2,56	689,800	690,000	80	34	2,64
682,400	682,600	80	52	3,97	690,000	690,200	80	28	2,12
682,600	682,800	80	37	2,86	690,200	690,400	80	26	1,97
682,800	683,000	80	31	2,41	690,400	690,600	80	27	2,04
683,000	683,200	80	27	2,04	690,600	690,800	80	22	1,67
683,200	683,400	80	27	2,04	690,800	691,000	50	30	2,32
683,400	683,600	80	26	1,97	691,000	691,200	50	24	1,86
683,600	683,800	80	28	2,12	691,200	691,400	50	32	2,49
683,800	684,000	80	28	2,12	691,400	691,600	50	46	3,53
684,000	684,200	80	19	1,45	691,600	691,800	50	43	3,30
684,200	684,400	80	22	1,67	691,800	692,000	50	45	3,47
684,400	684,600	80	23	1,74	692,000	692,200	80	25	1,89
684,600	684,800	80	19	1,45	692,200	692,400	80	34	2,64
684,800	685,000	80	21	1,60	692,400	692,600	80	33	2,56
685,000	685,200	80	30	2,34	692,600	692,800	80	35	2,71
685,200	685,400	80	27	2,04	692,800	693,000	80	24	1,82
685,400	685,600	80	27	2,04	693,000	693,200	80	43	3,30
685,600	685,800	80	23	1,74	693,200	693,400	80	28	2,19
685,800	686,000	80	26	1,97	693,400	693,600	80	30	2,34
686,000	686,200	80	33	2,56	693,600	693,800	80	26	1,97
686,200	686,400	80	27	2,04	693,800	694,000	80	25	1,89
686,400	686,600	80	19	1,45	694,000	694,200	80	28	2,19
686,600	686,800	80	17	1,30	694,200	694,400	80	37	2,86
686,800	687,000	80	19	1,45	694,400	694,600	80	29	2,26
687,000	687,200	80	26	1,97	694,600	694,800	80	33	2,56
687,200	687,400	80	21	1,60	694,800	695,000	80	27	2,04
687,400	687,600	80	19	1,45	695,000	695,200	80	73	5,60
687,600	687,800	80	22	1,67	695,200	695,400	80	55	4,27
687,800	688,000	80	22	1,67	695,400	695,600	80	29	2,26
688,000	688,200	80	21	1,60	695,600	695,800	80	27	2,04
688,200	688,400	80	23	1,74	695,800	696,000	80	28	2,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
696,000	696,200	80	33	2,56	703,600	703,800	80	30	2,34
696,200	696,400	80	28	2,12	703,800	704,000	80	29	2,26
696,400	696,600	80	30	2,34	704,000	704,200	80	28	2,19
696,600	696,800	80	20	1,52	704,200	704,400	80	28	2,19
696,800	697,000	80	16	1,22	704,400	704,600	80	25	1,89
697,000	697,200	80	19	1,45	704,600	704,800	80	22	1,67
697,200	697,400	80	36	2,78	704,800	705,000	80	22	1,67
697,400	697,600	80	27	2,04	705,000	705,200	80	29	2,26
697,600	697,800	80	27	2,04	705,200	705,400	80	33	2,56
697,800	698,000	80	31	2,41	705,400	705,600	80	28	2,19
698,000	698,200	80	28	2,19	705,600	705,800	80	27	2,04
698,200	698,400	80	27	2,04	705,800	706,000	80	27	2,04
698,400	698,600	80	30	2,34	706,000	706,200	80	31	2,41
698,600	698,800	80	30	2,34	706,200	706,400	80	28	2,12
698,800	699,000	80	33	2,56	706,400	706,600	80	21	1,60
699,000	699,200	80	29	2,26	706,600	706,800	80	28	2,19
699,200	699,400	80	20	1,52	706,800	707,000	80	28	2,19
699,400	699,600	80	28	2,12	707,000	707,200	80	28	2,12
699,600	699,800	80	27	2,04	707,200	707,400	80	28	2,19
699,800	700,000	80	27	2,04	707,400	707,600	80	28	2,12
700,000	700,200	80	30	2,34	707,600	707,800	80	33	2,56
700,200	700,400	80	38	2,93	707,800	708,000	80	29	2,26
700,400	700,600	80	25	1,89	708,000	708,200	80	22	1,67
700,600	700,800	80	32	2,49	708,200	708,400	80	27	2,04
700,800	701,000	80	35	2,71	708,400	708,600	80	27	2,04
701,000	701,200	80	27	2,04	708,600	708,800	80	26	1,97
701,200	701,400	80	31	2,41	708,800	709,000	80	35	2,71
701,400	701,600	80	29	2,26	709,000	709,200	80	28	2,12
701,600	701,800	80	33	2,56	709,200	709,400	80	48	3,67
701,800	702,000	80	28	2,19	709,400	709,600	80	31	2,41
702,000	702,200	80	36	2,78	709,600	709,800	80	28	2,12
702,200	702,400	80	26	1,97	709,800	710,000	80	30	2,34
702,400	702,600	80	28	2,19	710,000	710,200	80	41	3,15
702,600	702,800	80	28	2,19	710,200	710,400	80	32	2,49
702,800	703,000	80	35	2,71	710,400	710,600	80	34	2,64
703,000	703,200	80	23	1,74	710,600	710,800	80	28	2,19
703,200	703,400	80	31	2,41	710,800	711,000	80	35	2,71
703,400	703,600	80	27	2,04	711,000	711,200	80	35	2,71

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
711,200	711,400	80	37	2,86	718,800	719,000	80	19	1,45
711,400	711,600	80	39	3,01	719,000	719,200	80	28	2,12
711,600	711,800	80	34	2,64	719,200	719,400	80	31	2,41
711,800	712,000	80	37	2,86	719,400	719,600	80	32	2,49
712,000	712,200	80	33	2,56	719,600	719,800	80	23	1,74
712,200	712,400	80	42	3,23	719,800	720,000	80	34	2,64
712,400	712,600	80	36	2,78	720,000	720,200	80	22	1,67
712,600	712,800	80	31	2,41	720,200	720,400	80	23	1,74
712,800	713,000	80	30	2,34	720,400	720,600	80	21	1,60
713,000	713,200	80	32	2,49	720,600	720,800	80	22	1,67
713,200	713,400	80	30	2,34	720,800	721,000	80	20	1,52
713,400	713,600	80	29	2,26	721,000	721,200	80	21	1,60
713,600	713,800	80	33	2,56	721,200	721,400	80	29	2,26
713,800	714,000	80	39	3,01	721,400	721,600	80	26	1,97
714,000	714,200	80	26	1,97	721,600	721,800	80	23	1,74
714,200	714,400	80	26	1,97	721,800	722,000	80	25	1,89
714,400	714,600	80	28	2,12	722,000	722,200	80	23	1,74
714,600	714,800	80	26	1,97	722,200	722,400	80	20	1,52
714,800	715,000	80	28	2,19	722,400	722,600	80	23	1,74
715,000	715,200	80	27	2,04	722,600	722,800	80	23	1,74
715,200	715,400	80	29	2,26	722,800	723,000	80	22	1,67
715,400	715,600	80	28	2,19	723,000	723,200	80	19	1,45
715,600	715,800	80	24	1,82	723,200	723,400	80	19	1,45
715,800	716,000	80	29	2,26	723,400	723,600	80	22	1,67
716,000	716,200	80	21	1,60	723,600	723,800	80	21	1,60
716,200	716,400	80	26	1,97	723,800	724,000	80	29	2,26
716,400	716,600	80	32	2,49	724,000	724,200	80	33	2,56
716,600	716,800	80	22	1,67	724,200	724,400	80	18	1,37
716,800	717,000	80	22	1,67	724,400	724,600	80	24	1,82
717,000	717,200	80	25	1,89	724,600	724,800	50	30	2,32
717,200	717,400	80	22	1,67	724,800	725,000	50	29	2,20
717,400	717,600	80	21	1,60	725,000	725,200	50	29	2,26
717,600	717,800	80	23	1,74	725,200	725,400	50	28	2,15
717,800	718,000	80	22	1,67	725,400	725,600	50	22	1,68
718,000	718,200	80	17	1,30	725,600	725,800	50	20	1,51
718,200	718,400	80	23	1,74	725,800	726,000	80	20	1,52
718,400	718,600	80	18	1,37	726,000	726,200	80	24	1,82
718,600	718,800	80	16	1,22	726,200	726,400	80	27	2,04

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
726,400	726,600	80	39	3,01	734,000	734,200	50	27	2,09
726,600	726,800	80	30	2,34	734,200	734,400	50	29	2,20
726,800	727,000	80	28	2,12	734,400	734,600	80	29	2,26
727,000	727,200	80	25	1,89	734,600	734,800	80	47	3,60
727,200	727,400	80	23	1,74	734,800	735,000	80	29	2,26
727,400	727,600	80	27	2,04	735,000	735,200	80	29	2,26
727,600	727,800	80	28	2,12	735,200	735,400	80	26	1,97
727,800	728,000	80	24	1,82	735,400	735,600	80	27	2,04
728,000	728,200	80	27	2,04	735,600	735,800	80	28	2,19
728,200	728,400	80	25	1,89	735,800	736,000	50	29	2,26
728,400	728,600	80	24	1,82	736,000	736,200	50	23	1,80
728,600	728,800	50	24	1,86	736,200	736,400	50	26	1,97
728,800	729,000	50	32	2,43	736,400	736,600	50	28	2,15
729,000	729,200	50	29	2,26	736,600	736,800	50	31	2,38
729,200	729,400	50	28	2,15	736,800	737,000	50	23	1,80
729,400	729,600	50	28	2,15	737,000	737,200	50	24	1,86
729,600	729,800	80	31	2,41	737,200	737,400	50	25	1,91
729,800	730,000	80	31	2,41	737,400	737,600	50	25	1,91
730,000	730,200	80	20	1,52	737,600	737,800	50	24	1,86
730,200	730,400	80	26	1,97	737,800	738,000	50	26	2,03
730,400	730,600	80	23	1,74	738,000	738,200	50	23	1,80
730,600	730,800	80	23	1,74	738,200	738,400	50	23	1,74
730,800	731,000	80	29	2,26	738,400	738,600	50	31	2,38
731,000	731,200	80	35	2,71	738,600	738,800	50	32	2,49
731,200	731,400	80	23	1,74	738,800	739,000	50	30	2,32
731,400	731,600	80	20	1,52	739,000	739,200	50	24	1,86
731,600	731,800	80	27	2,04	739,200	739,400	50	39	3,01
731,800	732,000	80	34	2,64	739,400	739,600	80	31	2,41
732,000	732,200	80	28	2,12	739,600	739,800	80	34	2,64
732,200	732,400	80	26	1,97	739,800	740,000	80	31	2,41
732,400	732,600	80	28	2,12	740,000	740,200	80	32	2,49
732,600	732,800	80	25	1,89	740,200	740,400	80	34	2,64
732,800	733,000	80	35	2,71	740,400	740,600	80	58	4,49
733,000	733,200	80	34	2,64	740,600	740,800	80	68	5,23
733,200	733,400	50	28	2,15	740,800	741,000	80	32	2,49
733,400	733,600	50	32	2,49	741,000	741,200	80	27	2,04
733,600	733,800	50	27	2,09	741,200	741,400	80	31	2,41
733,800	734,000	50	26	1,97	741,400	741,600	80	38	2,93

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
741,600	741,800	80	30	2,34	749,200	749,400	80	30	2,34
741,800	742,000	50	23	1,80	749,400	749,600	80	29	2,26
742,000	742,200	50	29	2,20	749,600	749,800	80	57	4,42
742,200	742,400	50	64	4,91	749,800	750,000	80	55	4,19
742,400	742,600	50	61	4,68	750,000	750,200	80	46	3,53
742,600	742,800	50	35	2,66	750,200	750,400	80	43	3,30
742,800	743,000	50	27	2,09	750,400	750,600	80	27	2,04
743,000	743,200	50	26	2,03	750,600	750,800	80	25	1,89
743,200	743,400	50	31	2,38	750,800	751,000	80	44	3,38
743,400	743,600	50	47	3,59	751,000	751,200	80	31	2,41
743,600	743,800	50	33	2,55	751,200	751,400	80	55	4,27
743,800	744,000	50	26	2,03	751,400	751,600	80	38	2,93
744,000	744,200	50	26	1,97	751,600	751,800	80	34	2,64
744,200	744,400	50	29	2,20	751,800	752,000	80	25	1,89
744,400	744,600	50	33	2,55	752,000	752,200	80	23	1,74
744,600	744,800	50	29	2,20	752,200	752,400	80	33	2,56
744,800	745,000	50	30	2,32	752,400	752,600	80	34	2,64
745,000	745,200	50	29	2,26	752,600	752,800	50	37	2,84
745,200	745,400	50	32	2,49	752,800	753,000	50	35	2,66
745,400	745,600	50	29	2,20	753,000	753,200	50	36	2,78
745,600	745,800	50	32	2,49	753,200	753,400	50	35	2,66
745,800	746,000	50	31	2,38	753,400	753,600	80	35	2,71
746,000	746,200	50	38	2,95	753,600	753,800	80	28	2,19
746,200	746,400	50	37	2,84	753,800	754,000	80	37	2,86
746,400	746,600	50	41	3,12	754,000	754,200	80	34	2,64
746,600	746,800	50	35	2,66	754,200	754,400	80	42	3,23
746,800	747,000	50	28	2,15	754,400	754,600	80	43	3,30
747,000	747,200	50	34	2,61	754,600	754,800	80	31	2,41
747,200	747,400	50	36	2,78	754,800	755,000	80	28	2,12
747,400	747,600	50	36	2,78	755,000	755,200	50	29	2,26
747,600	747,800	50	38	2,89	755,200	755,400	50	25	1,91
747,800	748,000	50	25	1,91	755,400	755,600	50	30	2,32
748,000	748,200	80	36	2,78	755,600	755,800	50	38	2,89
748,200	748,400	80	32	2,49	755,800	756,000	50	26	2,03
748,400	748,600	80	48	3,67	756,000	756,200	50	29	2,20
748,600	748,800	80	46	3,53	756,200	756,400	50	27	2,09
748,800	749,000	80	40	3,08	756,400	756,600	50	26	2,03
749,000	749,200	80	28	2,19	756,600	756,800	50	30	2,32

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Crescente / Faixa 2			DATA jan/2007	
INÍCIO km 544,000					FINAL km 770,550				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
756,800	757,000	80	25	1,89	764,400	764,600	30	43	3,28
757,000	757,200	80	27	2,04	764,600	764,800	30	77	5,89
757,200	757,400	80	23	1,74	764,800	765,000	50	65	5,03
757,400	757,600	80	25	1,89	765,000	765,200	50	59	4,51
757,600	757,800	80	26	1,97	765,200	765,400	50	39	3,01
757,800	758,000	80	28	2,12	765,400	765,600	50	38	2,89
758,000	758,200	80	19	1,45	765,600	765,800	80	35	2,71
758,200	758,400	80	22	1,67	765,800	766,000	80	50	3,82
758,400	758,600	80	35	2,71	766,000	766,200	80	52	3,97
758,600	758,800	80	30	2,34	766,200	766,400	80	50	3,82
758,800	759,000	80	43	3,30	766,400	766,600	80	51	3,90
759,000	759,200	80	41	3,15	766,600	766,800	80	32	2,49
759,200	759,400	80	54	4,12	766,800	767,000	80	49	3,75
759,400	759,600	80	50	3,82	767,000	767,200	80	48	3,67
759,600	759,800	80	33	2,56	767,200	767,400	80	45	3,45
759,800	760,000	80	28	2,19	767,400	767,600	80	48	3,67
760,000	760,200	80	47	3,60	767,600	767,800	80	31	2,41
760,200	760,400	80	41	3,15	767,800	768,000	80	46	3,53
760,400	760,600	80	47	3,60	768,000	768,200	80	51	3,90
760,600	760,800	80	41	3,15	768,200	768,400	80	57	4,42
760,800	761,000	80	48	3,67	768,400	768,600	80	64	4,94
761,000	761,200	80	52	3,97	768,600	768,800	80	33	2,56
761,200	761,400	50	42	3,24	768,800	769,000	80	59	4,57
761,400	761,600	50	30	2,32	769,000	769,200	80	46	3,53
761,600	761,800	80	53	4,05	769,200	769,400	80	35	2,71
761,800	762,000	80	51	3,90	769,400	769,600	80	58	4,49
762,000	762,200	80	53	4,05	769,600	769,800	80	46	3,53
762,200	762,400	80	44	3,38	769,800	770,000	80	52	3,97
762,400	762,600	80	40	3,08	770,000	770,200	80	58	4,49
762,600	762,800	80	30	2,34	770,200	770,400	80	28	2,19
762,800	763,000	80	46	3,53	770,400	770,550	80	60	4,59
763,000	763,200	80	37	2,86					
763,200	763,400	80	42	3,23					
763,400	763,600	80	36	2,78					
763,600	763,800	80	25	1,89					
763,800	764,000	80	49	3,75					
764,000	764,200	80	36	2,78					
764,200	764,400	50	35	2,72					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
773,400	773,200	80	28	2,17	765,800	765,600	80	21	1,60
773,200	773,000	80	24	1,85	765,600	765,400	80	28	2,12
773,000	772,800	80	18	1,35	765,400	765,200	80	25	1,89
772,800	772,600	80	25	1,92	765,200	765,000	80	30	2,34
772,600	772,400	80	24	1,82	765,000	764,800	80	32	2,49
772,400	772,200	80	26	1,97	764,800	764,600	80	25	1,89
772,200	772,000	80	23	1,76	764,600	764,400	80	25	1,89
772,000	771,800	80	27	2,11	764,400	764,200	80	26	1,97
771,800	771,600	80	27	2,11	764,200	764,000	80	33	2,56
771,600	771,400	80	25	1,92	764,000	763,800	80	30	2,34
771,400	771,200	80	22	1,73	763,800	763,600	80	30	2,34
771,200	771,000	80	24	1,85	763,600	763,400	80	30	2,34
771,000	770,800	80	28	2,12	763,400	763,200	80	27	2,04
770,800	770,600	80	30	2,34	763,200	763,000	80	28	2,19
770,600	770,400	80	28	2,19	763,000	762,800	80	28	2,12
770,400	770,200	80	29	2,26	762,800	762,600	80	28	2,19
770,200	770,000	80	31	2,41	762,600	762,400	80	28	2,12
770,000	769,800	80	27	2,04	762,400	762,200	80	23	1,74
769,800	769,600	80	24	1,82	762,200	762,000	80	28	2,19
769,600	769,400	80	26	1,97	762,000	761,800	80	40	3,08
769,400	769,200	80	28	2,12	761,800	761,600	80	36	2,78
769,200	769,000	80	30	2,34	761,600	761,400	80	36	2,78
769,000	768,800	80	25	1,89	761,400	761,200	80	24	1,82
768,800	768,600	80	28	2,12	761,200	761,000	80	32	2,49
768,600	768,400	80	24	1,82	761,000	760,800	80	31	2,41
768,400	768,200	80	25	1,89	760,800	760,600	80	24	1,82
768,200	768,000	80	30	2,34	760,600	760,400	80	20	1,52
768,000	767,800	80	27	2,04	760,400	760,200	80	28	2,19
767,800	767,600	80	30	2,34	760,200	760,000	80	25	1,89
767,600	767,400	80	31	2,41	760,000	759,800	80	21	1,60
767,400	767,200	80	28	2,12	759,800	759,600	80	21	1,60
767,200	767,000	80	27	2,04	759,600	759,400	80	23	1,74
767,000	766,800	80	28	2,12	759,400	759,200	80	29	2,26
766,800	766,600	30	38	2,90	759,200	759,000	80	26	1,97
766,600	766,400	30	49	3,76	759,000	758,800	80	21	1,60
766,400	766,200	50	28	2,15	758,800	758,600	80	18	1,37
766,200	766,000	80	21	1,60	758,600	758,400	80	22	1,67
766,000	765,800	80	24	1,82	758,400	758,200	80	24	1,82

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INICIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
758,200	758,000	80	23	1,74	750,600	750,400	80	21	1,60
758,000	757,800	50	29	2,20	750,400	750,200	80	23	1,74
757,800	757,600	50	23	1,74	750,200	750,000	80	25	1,89
757,600	757,400	50	21	1,63	750,000	749,800	80	36	2,78
757,400	757,200	50	20	1,51	749,800	749,600	80	32	2,49
757,200	757,000	50	25	1,91	749,600	749,400	80	18	1,37
757,000	756,800	50	23	1,80	749,400	749,200	80	34	2,64
756,800	756,600	50	20	1,57	749,200	749,000	80	37	2,86
756,600	756,400	50	26	1,97	749,000	748,800	50	35	2,72
756,400	756,200	50	38	2,89	748,800	748,600	50	27	2,09
756,200	756,000	50	37	2,84	748,600	748,400	50	28	2,15
756,000	755,800	80	28	2,19	748,400	748,200	50	26	1,97
755,800	755,600	80	30	2,34	748,200	748,000	50	27	2,09
755,600	755,400	80	30	2,34	748,000	747,800	50	33	2,55
755,400	755,200	80	36	2,78	747,800	747,600	50	29	2,26
755,200	755,000	80	31	2,41	747,600	747,400	50	31	2,38
755,000	754,800	80	39	3,01	747,400	747,200	50	28	2,15
754,800	754,600	80	29	2,26	747,200	747,000	50	23	1,80
754,600	754,400	80	31	2,41	747,000	746,800	50	32	2,49
754,400	754,200	80	24	1,82	746,800	746,600	50	26	2,03
754,200	754,000	80	28	2,19	746,600	746,400	50	25	1,91
754,000	753,800	80	20	1,52	746,400	746,200	80	38	2,93
753,800	753,600	80	23	1,74	746,200	746,000	80	26	1,97
753,600	753,400	80	26	1,97	746,000	745,800	80	24	1,82
753,400	753,200	80	26	1,97	745,800	745,600	80	31	2,41
753,200	753,000	80	32	2,49	745,600	745,400	80	23	1,74
753,000	752,800	80	30	2,34	745,400	745,200	80	28	2,12
752,800	752,600	80	26	1,97	745,200	745,000	80	28	2,19
752,600	752,400	80	20	1,52	745,000	744,800	80	47	3,60
752,400	752,200	80	20	1,52	744,800	744,600	80	26	1,97
752,200	752,000	80	25	1,89	744,600	744,400	80	26	1,97
752,000	751,800	80	25	1,89	744,400	744,200	80	21	1,60
751,800	751,600	80	27	2,04	744,200	744,000	80	33	2,56
751,600	751,400	80	28	2,19	744,000	743,800	80	32	2,49
751,400	751,200	80	25	1,89	743,800	743,600	80	24	1,82
751,200	751,000	80	24	1,82	743,600	743,400	80	29	2,26
751,000	750,800	80	24	1,82	743,400	743,200	80	32	2,49
750,800	750,600	80	27	2,04	743,200	743,000	50	25	1,91

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INICIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
743,000	742,800	50	26	2,03	735,400	735,200	80	21	1,60
742,800	742,600	80	23	1,74	735,200	735,000	80	27	2,04
742,600	742,400	80	25	1,89	735,000	734,800	80	24	1,82
742,400	742,200	80	32	2,49	734,800	734,600	80	31	2,41
742,200	742,000	80	39	3,01	734,600	734,400	80	23	1,74
742,000	741,800	80	35	2,71	734,400	734,200	80	23	1,74
741,800	741,600	80	31	2,41	734,200	734,000	80	33	2,56
741,600	741,400	80	31	2,41	734,000	733,800	80	29	2,26
741,400	741,200	50	38	2,95	733,800	733,600	80	35	2,71
741,200	741,000	50	31	2,38	733,600	733,400	80	31	2,41
741,000	740,800	50	26	1,97	733,400	733,200	80	30	2,34
740,800	740,600	50	30	2,32	733,200	733,000	80	37	2,86
740,600	740,400	50	23	1,80	733,000	732,800	80	36	2,78
740,400	740,200	50	26	1,97	732,800	732,600	80	31	2,41
740,200	740,000	50	37	2,84	732,600	732,400	80	23	1,74
740,000	739,800	50	34	2,61	732,400	732,200	80	17	1,30
739,800	739,600	50	33	2,55	732,200	732,000	80	25	1,89
739,600	739,400	80	31	2,41	732,000	731,800	50	24	1,86
739,400	739,200	80	33	2,56	731,800	731,600	50	28	2,15
739,200	739,000	50	27	2,09	731,600	731,400	50	25	1,91
739,000	738,800	50	26	1,97	731,400	731,200	50	28	2,15
738,800	738,600	50	23	1,74	731,200	731,000	50	27	2,09
738,600	738,400	50	23	1,80	731,000	730,800	80	29	2,26
738,400	738,200	50	24	1,86	730,800	730,600	50	27	2,09
738,200	738,000	50	26	1,97	730,600	730,400	50	23	1,74
738,000	737,800	50	26	1,97	730,400	730,200	50	20	1,57
737,800	737,600	50	30	2,32	730,200	730,000	50	20	1,51
737,600	737,400	50	25	1,91	730,000	729,800	80	15	1,15
737,400	737,200	80	22	1,67	729,800	729,600	80	28	2,12
737,200	737,000	80	23	1,74	729,600	729,400	80	21	1,60
737,000	736,800	80	25	1,89	729,400	729,200	80	19	1,45
736,800	736,600	80	28	2,19	729,200	729,000	80	14	1,08
736,600	736,400	80	36	2,78	729,000	728,800	50	19	1,45
736,400	736,200	80	40	3,08	728,800	728,600	50	21	1,63
736,200	736,000	50	29	2,26	728,600	728,400	50	22	1,68
736,000	735,800	50	23	1,80	728,400	728,200	50	26	1,97
735,800	735,600	50	26	1,97	728,200	728,000	50	22	1,68
735,600	735,400	50	26	1,97	728,000	727,800	50	20	1,51

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
727,800	727,600	50	20	1,57	720,200	720,000	80	26	1,97
727,600	727,400	50	20	1,57	720,000	719,800	80	22	1,67
727,400	727,200	50	20	1,57	719,800	719,600	80	20	1,52
727,200	727,000	50	23	1,80	719,600	719,400	80	19	1,45
727,000	726,800	50	20	1,57	719,400	719,200	80	20	1,52
726,800	726,600	50	21	1,63	719,200	719,000	80	21	1,60
726,600	726,400	50	22	1,68	719,000	718,800	80	19	1,45
726,400	726,200	50	20	1,51	718,800	718,600	80	24	1,82
726,200	726,000	50	17	1,34	718,600	718,400	80	15	1,15
726,000	725,800	50	21	1,63	718,400	718,200	80	22	1,67
725,800	725,600	50	22	1,68	718,200	718,000	80	27	2,04
725,600	725,400	80	17	1,30	718,000	717,800	80	23	1,74
725,400	725,200	80	18	1,37	717,800	717,600	80	25	1,89
725,200	725,000	80	21	1,60	717,600	717,400	80	22	1,67
725,000	724,800	80	15	1,15	717,400	717,200	80	19	1,45
724,800	724,600	80	19	1,45	717,200	717,000	80	21	1,60
724,600	724,400	80	17	1,30	717,000	716,800	80	21	1,60
724,400	724,200	80	18	1,37	716,800	716,600	80	19	1,45
724,200	724,000	80	17	1,30	716,600	716,400	80	23	1,74
724,000	723,800	80	20	1,52	716,400	716,200	80	27	2,04
723,800	723,600	80	18	1,37	716,200	716,000	80	21	1,60
723,600	723,400	80	18	1,37	716,000	715,800	80	25	1,89
723,400	723,200	80	18	1,37	715,800	715,600	80	27	2,04
723,200	723,000	80	26	1,97	715,600	715,400	80	24	1,82
723,000	722,800	80	24	1,82	715,400	715,200	80	20	1,52
722,800	722,600	80	25	1,89	715,200	715,000	80	20	1,52
722,600	722,400	80	25	1,89	715,000	714,800	80	20	1,52
722,400	722,200	80	20	1,52	714,800	714,600	80	20	1,52
722,200	722,000	80	23	1,74	714,600	714,400	80	26	1,97
722,000	721,800	80	28	2,12	714,400	714,200	80	25	1,89
721,800	721,600	80	35	2,71	714,200	714,000	80	24	1,82
721,600	721,400	80	20	1,52	714,000	713,800	80	21	1,60
721,400	721,200	80	20	1,52	713,800	713,600	80	24	1,82
721,200	721,000	80	22	1,67	713,600	713,400	80	21	1,60
721,000	720,800	80	20	1,52	713,400	713,200	80	19	1,45
720,800	720,600	80	18	1,37	713,200	713,000	80	18	1,37
720,600	720,400	80	23	1,74	713,000	712,800	80	20	1,52
720,400	720,200	80	21	1,60	712,800	712,600	80	19	1,45

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
712,600	712,400	80	18	1,37	705,000	704,800	80	24	1,82
712,400	712,200	80	18	1,37	704,800	704,600	80	25	1,89
712,200	712,000	80	20	1,52	704,600	704,400	80	25	1,89
712,000	711,800	80	19	1,45	704,400	704,200	80	21	1,60
711,800	711,600	80	19	1,45	704,200	704,000	80	18	1,37
711,600	711,400	80	19	1,45	704,000	703,800	80	18	1,37
711,400	711,200	80	20	1,52	703,800	703,600	80	21	1,60
711,200	711,000	80	27	2,04	703,600	703,400	80	17	1,30
711,000	710,800	80	25	1,89	703,400	703,200	80	20	1,52
710,800	710,600	80	21	1,60	703,200	703,000	80	21	1,60
710,600	710,400	80	28	2,12	703,000	702,800	80	22	1,67
710,400	710,200	80	17	1,30	702,800	702,600	80	17	1,30
710,200	710,000	80	27	2,04	702,600	702,400	80	19	1,45
710,000	709,800	80	26	1,97	702,400	702,200	80	19	1,45
709,800	709,600	80	19	1,45	702,200	702,000	80	22	1,67
709,600	709,400	80	19	1,45	702,000	701,800	80	23	1,74
709,400	709,200	80	16	1,22	701,800	701,600	80	21	1,60
709,200	709,000	80	16	1,22	701,600	701,400	80	18	1,37
709,000	708,800	80	21	1,60	701,400	701,200	80	20	1,52
708,800	708,600	80	17	1,30	701,200	701,000	80	19	1,45
708,600	708,400	80	18	1,37	701,000	700,800	80	22	1,67
708,400	708,200	80	18	1,37	700,800	700,600	80	26	1,97
708,200	708,000	80	18	1,37	700,600	700,400	80	27	2,04
708,000	707,800	80	17	1,30	700,400	700,200	80	25	1,89
707,800	707,600	80	18	1,37	700,200	700,000	80	19	1,45
707,600	707,400	80	15	1,15	700,000	699,800	80	22	1,67
707,400	707,200	80	18	1,37	699,800	699,600	80	23	1,74
707,200	707,000	80	17	1,30	699,600	699,400	80	29	2,26
707,000	706,800	80	16	1,22	699,400	699,200	80	22	1,67
706,800	706,600	80	18	1,37	699,200	699,000	80	20	1,52
706,600	706,400	80	27	2,04	699,000	698,800	80	30	2,34
706,400	706,200	80	25	1,89	698,800	698,600	80	24	1,82
706,200	706,000	80	20	1,52	698,600	698,400	80	24	1,82
706,000	705,800	80	22	1,67	698,400	698,200	80	19	1,45
705,800	705,600	80	22	1,67	698,200	698,000	80	19	1,45
705,600	705,400	80	22	1,67	698,000	697,800	80	25	1,89
705,400	705,200	80	19	1,45	697,800	697,600	80	26	1,97
705,200	705,000	80	26	1,97	697,600	697,400	80	17	1,30

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
697,400	697,200	80	21	1,60	689,800	689,600	80	15	1,15
697,200	697,000	80	25	1,89	689,600	689,400	80	15	1,15
697,000	696,800	80	21	1,60	689,400	689,200	80	17	1,30
696,800	696,600	80	34	2,64	689,200	689,000	80	19	1,45
696,600	696,400	80	23	1,74	689,000	688,800	80	17	1,30
696,400	696,200	80	18	1,37	688,800	688,600	80	16	1,22
696,200	696,000	80	22	1,67	688,600	688,400	80	18	1,37
696,000	695,800	80	28	2,12	688,400	688,200	80	17	1,30
695,800	695,600	80	21	1,60	688,200	688,000	80	19	1,45
695,600	695,400	80	19	1,45	688,000	687,800	80	23	1,74
695,400	695,200	80	19	1,45	687,800	687,600	80	17	1,30
695,200	695,000	80	20	1,52	687,600	687,400	80	16	1,22
695,000	694,800	80	25	1,89	687,400	687,200	80	20	1,52
694,800	694,600	80	27	2,04	687,200	687,000	80	17	1,30
694,600	694,400	80	28	2,12	687,000	686,800	80	18	1,37
694,400	694,200	80	21	1,60	686,800	686,600	80	17	1,30
694,200	694,000	80	19	1,45	686,600	686,400	80	18	1,37
694,000	693,800	80	29	2,26	686,400	686,200	80	17	1,30
693,800	693,600	80	28	2,12	686,200	686,000	80	18	1,37
693,600	693,400	80	23	1,74	686,000	685,800	80	17	1,30
693,400	693,200	80	24	1,82	685,800	685,600	80	19	1,45
693,200	693,000	80	27	2,04	685,600	685,400	80	25	1,89
693,000	692,800	80	30	2,34	685,400	685,200	80	25	1,89
692,800	692,600	80	32	2,49	685,200	685,000	80	28	2,12
692,600	692,400	80	25	1,89	685,000	684,800	80	26	1,97
692,400	692,200	80	23	1,74	684,800	684,600	80	24	1,82
692,200	692,000	80	22	1,67	684,600	684,400	80	26	1,97
692,000	691,800	80	18	1,37	684,400	684,200	80	29	2,26
691,800	691,600	80	21	1,60	684,200	684,000	80	27	2,04
691,600	691,400	80	23	1,74	684,000	683,800	80	28	2,19
691,400	691,200	80	20	1,52	683,800	683,600	80	30	2,34
691,200	691,000	80	18	1,37	683,600	683,400	80	33	2,56
691,000	690,800	80	23	1,74	683,400	683,200	80	28	2,19
690,800	690,600	80	19	1,45	683,200	683,000	80	30	2,34
690,600	690,400	80	17	1,30	683,000	682,800	80	25	1,89
690,400	690,200	80	17	1,30	682,800	682,600	50	32	2,49
690,200	690,000	80	15	1,15	682,600	682,400	50	30	2,32
690,000	689,800	80	14	1,08	682,400	682,200	50	29	2,26

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
682,200	682,000	30	26	2,01	674,600	674,400	80	26	1,97
682,000	681,800	30	32	2,43	674,400	674,200	80	18	1,37
681,800	681,600	30	30	2,34	674,200	674,000	80	13	1,00
681,600	681,400	50	35	2,66	674,000	673,800	80	15	1,15
681,400	681,200	50	36	2,78	673,800	673,600	80	15	1,15
681,200	681,000	50	38	2,89	673,600	673,400	80	30	2,34
681,000	680,800	80	29	2,26	673,400	673,200	80	44	3,38
680,800	680,600	80	35	2,71	673,200	673,000	80	36	2,78
680,600	680,400	80	33	2,56	673,000	672,800	80	32	2,49
680,400	680,200	80	29	2,26	672,800	672,600	80	20	1,52
680,200	680,000	80	28	2,19	672,600	672,400	80	16	1,22
680,000	679,800	80	28	2,19	672,400	672,200	80	18	1,37
679,800	679,600	80	25	1,89	672,200	672,000	80	32	2,49
679,600	679,400	80	22	1,67	672,000	671,800	80	28	2,12
679,400	679,200	80	21	1,60	671,800	671,600	80	22	1,67
679,200	679,000	80	19	1,45	671,600	671,400	80	16	1,22
679,000	678,800	80	36	2,78	671,400	671,200	80	15	1,15
678,800	678,600	80	20	1,52	671,200	671,000	80	17	1,30
678,600	678,400	80	20	1,52	671,000	670,800	80	29	2,26
678,400	678,200	80	23	1,74	670,800	670,600	80	26	1,97
678,200	678,000	80	21	1,60	670,600	670,400	80	29	2,26
678,000	677,800	80	22	1,67	670,400	670,200	80	34	2,64
677,800	677,600	80	22	1,67	670,200	670,000	80	18	1,37
677,600	677,400	80	20	1,52	670,000	669,800	80	16	1,22
677,400	677,200	80	20	1,52	669,800	669,600	80	15	1,15
677,200	677,000	80	17	1,30	669,600	669,400	80	19	1,45
677,000	676,800	80	19	1,45	669,400	669,200	80	29	2,26
676,800	676,600	80	23	1,74	669,200	669,000	80	29	2,26
676,600	676,400	80	22	1,67	669,000	668,800	80	25	1,89
676,400	676,200	80	25	1,89	668,800	668,600	80	22	1,67
676,200	676,000	80	20	1,52	668,600	668,400	80	15	1,15
676,000	675,800	80	15	1,15	668,400	668,200	80	16	1,22
675,800	675,600	80	17	1,30	668,200	668,000	80	24	1,82
675,600	675,400	80	20	1,52	668,000	667,800	80	26	1,97
675,400	675,200	80	19	1,45	667,800	667,600	80	26	1,97
675,200	675,000	80	20	1,52	667,600	667,400	80	22	1,67
675,000	674,800	80	17	1,30	667,400	667,200	50	24	1,86
674,800	674,600	80	19	1,45	667,200	667,000	50	26	1,97

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
667,000	666,800	50	26	1,97	659,400	659,200	80	21	1,60
666,800	666,600	50	30	2,32	659,200	659,000	80	24	1,82
666,600	666,400	80	29	2,26	659,000	658,800	80	27	2,04
666,400	666,200	80	24	1,82	658,800	658,600	80	19	1,45
666,200	666,000	80	22	1,67	658,600	658,400	80	16	1,22
666,000	665,800	80	21	1,60	658,400	658,200	80	20	1,52
665,800	665,600	80	26	1,97	658,200	658,000	80	18	1,37
665,600	665,400	80	24	1,82	658,000	657,800	80	26	1,97
665,400	665,200	80	27	2,04	657,800	657,600	80	21	1,60
665,200	665,000	80	20	1,52	657,600	657,400	80	22	1,67
665,000	664,800	80	20	1,52	657,400	657,200	80	21	1,60
664,800	664,600	80	14	1,08	657,200	657,000	80	23	1,74
664,600	664,400	80	21	1,60	657,000	656,800	80	25	1,89
664,400	664,200	80	22	1,67	656,800	656,600	80	28	2,12
664,200	664,000	80	21	1,60	656,600	656,400	80	21	1,60
664,000	663,800	80	26	1,97	656,400	656,200	80	27	2,04
663,800	663,600	80	24	1,82	656,200	656,000	80	35	2,71
663,600	663,400	80	29	2,26	656,000	655,800	80	28	2,12
663,400	663,200	80	25	1,89	655,800	655,600	80	23	1,74
663,200	663,000	80	26	1,97	655,600	655,400	80	27	2,04
663,000	662,800	80	18	1,37	655,400	655,200	80	27	2,04
662,800	662,600	80	15	1,15	655,200	655,000	80	20	1,52
662,600	662,400	80	31	2,41	655,000	654,800	80	21	1,60
662,400	662,200	80	28	2,12	654,800	654,600	80	30	2,34
662,200	662,000	80	22	1,67	654,600	654,400	80	26	1,97
662,000	661,800	80	21	1,60	654,400	654,200	80	27	2,04
661,800	661,600	80	35	2,71	654,200	654,000	80	22	1,67
661,600	661,400	80	26	1,97	654,000	653,800	80	28	2,19
661,400	661,200	80	26	1,97	653,800	653,600	80	18	1,37
661,200	661,000	80	19	1,45	653,600	653,400	80	20	1,52
661,000	660,800	80	22	1,67	653,400	653,200	80	27	2,04
660,800	660,600	50	23	1,80	653,200	653,000	80	20	1,52
660,600	660,400	50	26	2,03	653,000	652,800	80	17	1,30
660,400	660,200	80	25	1,89	652,800	652,600	80	24	1,82
660,200	660,000	80	26	1,97	652,600	652,400	80	26	1,97
660,000	659,800	80	25	1,89	652,400	652,200	80	25	1,89
659,800	659,600	80	28	2,19	652,200	652,000	80	26	1,97
659,600	659,400	80	21	1,60	652,000	651,800	80	25	1,89

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INICIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
651,800	651,600	80	25	1,89	644,200	644,000	80	27	2,04
651,600	651,400	80	23	1,74	644,000	643,800	80	26	1,97
651,400	651,200	80	22	1,67	643,800	643,600	80	19	1,45
651,200	651,000	80	23	1,74	643,600	643,400	80	15	1,15
651,000	650,800	80	20	1,52	643,400	643,200	80	16	1,22
650,800	650,600	80	27	2,04	643,200	643,000	80	20	1,52
650,600	650,400	80	20	1,52	643,000	642,800	80	23	1,74
650,400	650,200	80	22	1,67	642,800	642,600	80	20	1,52
650,200	650,000	80	24	1,82	642,600	642,400	80	20	1,52
650,000	649,800	50	23	1,80	642,400	642,200	80	23	1,74
649,800	649,600	30	23	1,77	642,200	642,000	80	20	1,52
649,600	649,400	50	28	2,15	642,000	641,800	80	21	1,60
649,400	649,200	80	21	1,60	641,800	641,600	80	21	1,60
649,200	649,000	80	24	1,82	641,600	641,400	80	21	1,60
649,000	648,800	80	21	1,60	641,400	641,200	80	23	1,74
648,800	648,600	80	19	1,45	641,200	641,000	80	20	1,52
648,600	648,400	80	19	1,45	641,000	640,800	80	17	1,30
648,400	648,200	80	24	1,82	640,800	640,600	80	22	1,67
648,200	648,000	80	17	1,30	640,600	640,400	80	16	1,22
648,000	647,800	80	15	1,15	640,400	640,200	80	28	2,19
647,800	647,600	80	16	1,22	640,200	640,000	80	21	1,60
647,600	647,400	80	17	1,30	640,000	639,800	80	21	1,60
647,400	647,200	80	18	1,37	639,800	639,600	80	16	1,22
647,200	647,000	80	15	1,15	639,600	639,400	80	17	1,30
647,000	646,800	80	15	1,15	639,400	639,200	80	27	2,04
646,800	646,600	80	13	1,00	639,200	639,000	80	23	1,74
646,600	646,400	80	26	1,97	639,000	638,800	80	20	1,52
646,400	646,200	80	19	1,45	638,800	638,600	80	23	1,74
646,200	646,000	80	24	1,82	638,600	638,400	80	23	1,74
646,000	645,800	80	22	1,67	638,400	638,200	80	22	1,67
645,800	645,600	80	26	1,97	638,200	638,000	80	22	1,67
645,600	645,400	80	26	1,97	638,000	637,800	80	23	1,74
645,400	645,200	80	25	1,89	637,800	637,600	80	29	2,26
645,200	645,000	80	24	1,82	637,600	637,400	80	29	2,26
645,000	644,800	80	23	1,74	637,400	637,200	80	25	1,89
644,800	644,600	80	22	1,67	637,200	637,000	80	26	1,97
644,600	644,400	80	23	1,74	637,000	636,800	80	20	1,52
644,400	644,200	80	23	1,74	636,800	636,600	80	21	1,60

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INICIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
636,600	636,400	80	24	1,82	629,000	628,800	50	48	3,70
636,400	636,200	80	30	2,34	628,800	628,600	50	35	2,66
636,200	636,000	80	20	1,52	628,600	628,400	50	41	3,12
636,000	635,800	80	21	1,60	628,400	628,200	50	55	4,22
635,800	635,600	80	18	1,37	628,200	628,000	50	44	3,41
635,600	635,400	80	26	1,97	628,000	627,800	30	46	3,57
635,400	635,200	80	30	2,34	627,800	627,600	30	56	4,28
635,200	635,000	80	21	1,60	627,600	627,400	50	51	3,93
635,000	634,800	80	24	1,82	627,400	627,200	50	37	2,84
634,800	634,600	80	24	1,82	627,200	627,000	80	42	3,23
634,600	634,400	80	24	1,82	627,000	626,800	80	39	3,01
634,400	634,200	80	22	1,67	626,800	626,600	80	44	3,38
634,200	634,000	80	18	1,37	626,600	626,400	80	44	3,38
634,000	633,800	80	20	1,52	626,400	626,200	80	47	3,60
633,800	633,600	30	25	1,96	626,200	626,000	80	39	3,01
633,600	633,400	50	26	1,97	626,000	625,800	80	38	2,93
633,400	633,200	50	23	1,80	625,800	625,600	80	34	2,64
633,200	633,000	50	22	1,68	625,600	625,400	80	34	2,64
633,000	632,800	50	26	2,03	625,400	625,200	80	41	3,15
632,800	632,600	50	37	2,84	625,200	625,000	80	35	2,71
632,600	632,400	50	42	3,24	625,000	624,800	80	40	3,08
632,400	632,200	50	35	2,72	624,800	624,600	80	41	3,15
632,200	632,000	80	33	2,56	624,600	624,400	80	32	2,49
632,000	631,800	80	24	1,82	624,400	624,200	80	36	2,78
631,800	631,600	80	31	2,41	624,200	624,000	80	35	2,71
631,600	631,400	80	39	3,01	624,000	623,800	80	37	2,86
631,400	631,200	80	41	3,15	623,800	623,600	80	36	2,78
631,200	631,000	80	32	2,49	623,600	623,400	80	38	2,93
631,000	630,800	80	32	2,49	623,400	623,200	80	33	2,56
630,800	630,600	80	32	2,49	623,200	623,000	80	38	2,93
630,600	630,400	80	51	3,90	623,000	622,800	80	42	3,23
630,400	630,200	80	36	2,78	622,800	622,600	80	39	3,01
630,200	630,000	80	38	2,93	622,600	622,400	80	42	3,23
630,000	629,800	80	28	2,12	622,400	622,200	80	39	3,01
629,800	629,600	50	42	3,24	622,200	622,000	80	38	2,93
629,600	629,400	50	56	4,33	622,000	621,800	80	38	2,93
629,400	629,200	50	36	2,78	621,800	621,600	80	32	2,49
629,200	629,000	50	59	4,51	621,600	621,400	80	41	3,15

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
621,400	621,200	80	43	3,30	613,800	613,600	80	23	1,74
621,200	621,000	80	32	2,49	613,600	613,400	80	26	1,97
621,000	620,800	80	29	2,26	613,400	613,200	80	28	2,19
620,800	620,600	80	27	2,04	613,200	613,000	80	33	2,56
620,600	620,400	80	30	2,34	613,000	612,800	80	27	2,04
620,400	620,200	80	28	2,12	612,800	612,600	80	35	2,71
620,200	620,000	80	26	1,97	612,600	612,400	50	33	2,55
620,000	619,800	80	23	1,74	612,400	612,200	50	47	3,59
619,800	619,600	80	28	2,12	612,200	612,000	50	57	4,39
619,600	619,400	80	49	3,75	612,000	611,800	50	41	3,18
619,400	619,200	80	30	2,34	611,800	611,600	50	44	3,36
619,200	619,000	80	28	2,19	611,600	611,400	50	41	3,18
619,000	618,800	80	34	2,64	611,400	611,200	50	30	2,32
618,800	618,600	80	37	2,86	611,200	611,000	50	35	2,66
618,600	618,400	80	31	2,41	611,000	610,800	80	51	3,90
618,400	618,200	80	29	2,26	610,800	610,600	80	43	3,30
618,200	618,000	80	28	2,12	610,600	610,400	80	34	2,64
618,000	617,800	80	28	2,19	610,400	610,200	80	34	2,64
617,800	617,600	80	28	2,12	610,200	610,000	80	32	2,49
617,600	617,400	80	25	1,89	610,000	609,800	80	34	2,64
617,400	617,200	50	33	2,55	609,800	609,600	80	37	2,86
617,200	617,000	50	29	2,20	609,600	609,400	80	29	2,26
617,000	616,800	50	35	2,66	609,400	609,200	80	31	2,41
616,800	616,600	80	28	2,19	609,200	609,000	80	30	2,34
616,600	616,400	80	28	2,12	609,000	608,800	80	37	2,86
616,400	616,200	80	21	1,60	608,800	608,600	80	33	2,56
616,200	616,000	50	32	2,49	608,600	608,400	80	35	2,71
616,000	615,800	50	46	3,53	608,400	608,200	80	29	2,26
615,800	615,600	50	58	4,45	608,200	608,000	80	24	1,82
615,600	615,400	50	38	2,89	608,000	607,800	80	40	3,08
615,400	615,200	50	34	2,61	607,800	607,600	80	32	2,49
615,200	615,000	50	26	1,97	607,600	607,400	50	37	2,84
615,000	614,800	80	28	2,12	607,400	607,200	50	29	2,26
614,800	614,600	80	30	2,34	607,200	607,000	50	35	2,72
614,600	614,400	80	35	2,71	607,000	606,800	50	29	2,26
614,400	614,200	80	37	2,86	606,800	606,600	80	33	2,56
614,200	614,000	80	40	3,08	606,600	606,400	80	40	3,08
614,000	613,800	80	32	2,49	606,400	606,200	80	43	3,30

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
606,200	606,000	80	28	2,19	598,600	598,400	50	28	2,15
606,000	605,800	80	28	2,19	598,400	598,200	80	32	2,49
605,800	605,600	80	27	2,04	598,200	598,000	80	34	2,64
605,600	605,400	80	28	2,19	598,000	597,800	80	32	2,49
605,400	605,200	80	26	1,97	597,800	597,600	80	33	2,56
605,200	605,000	80	34	2,64	597,600	597,400	80	33	2,56
605,000	604,800	80	39	3,01	597,400	597,200	80	26	1,97
604,800	604,600	80	32	2,49	597,200	597,000	80	27	2,04
604,600	604,400	80	25	1,89	597,000	596,800	80	36	2,78
604,400	604,200	80	28	2,12	596,800	596,600	80	33	2,56
604,200	604,000	80	32	2,49	596,600	596,400	80	34	2,64
604,000	603,800	80	46	3,53	596,400	596,200	80	32	2,49
603,800	603,600	80	33	2,56	596,200	596,000	80	28	2,19
603,600	603,400	80	23	1,74	596,000	595,800	80	35	2,71
603,400	603,200	80	25	1,89	595,800	595,600	80	31	2,41
603,200	603,000	80	17	1,30	595,600	595,400	80	28	2,12
603,000	602,800	80	21	1,60	595,400	595,200	80	37	2,86
602,800	602,600	80	24	1,82	595,200	595,000	80	25	1,89
602,600	602,400	80	24	1,82	595,000	594,800	80	28	2,19
602,400	602,200	80	26	1,97	594,800	594,600	80	35	2,71
602,200	602,000	80	34	2,64	594,600	594,400	80	30	2,34
602,000	601,800	80	27	2,04	594,400	594,200	80	25	1,89
601,800	601,600	80	25	1,89	594,200	594,000	80	36	2,78
601,600	601,400	80	34	2,64	594,000	593,800	80	32	2,49
601,400	601,200	80	26	1,97	593,800	593,600	50	25	1,91
601,200	601,000	80	24	1,82	593,600	593,400	50	36	2,78
601,000	600,800	80	26	1,97	593,400	593,200	80	34	2,64
600,800	600,600	50	25	1,91	593,200	593,000	80	28	2,19
600,600	600,400	80	25	1,89	593,000	592,800	80	28	2,19
600,400	600,200	80	26	1,97	592,800	592,600	80	34	2,64
600,200	600,000	80	20	1,52	592,600	592,400	80	29	2,26
600,000	599,800	80	26	1,97	592,400	592,200	50	29	2,20
599,800	599,600	80	26	1,97	592,200	592,000	50	34	2,61
599,600	599,400	80	27	2,04	592,000	591,800	50	42	3,24
599,400	599,200	80	23	1,74	591,800	591,600	50	33	2,55
599,200	599,000	80	26	1,97	591,600	591,400	50	30	2,32
599,000	598,800	30	25	1,91	591,400	591,200	50	26	1,97
598,800	598,600	50	35	2,66	591,200	591,000	50	31	2,38

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
591,000	590,800	50	26	1,97	583,400	583,200	80	32	2,49
590,800	590,600	50	40	3,07	583,200	583,000	80	39	3,01
590,600	590,400	50	35	2,72	583,000	582,800	80	37	2,86
590,400	590,200	80	39	3,01	582,800	582,600	80	31	2,41
590,200	590,000	80	30	2,34	582,600	582,400	80	38	2,93
590,000	589,800	80	28	2,19	582,400	582,200	80	28	2,12
589,800	589,600	80	28	2,12	582,200	582,000	80	39	3,01
589,600	589,400	80	27	2,04	582,000	581,800	80	29	2,26
589,400	589,200	80	32	2,49	581,800	581,600	80	30	2,34
589,200	589,000	80	37	2,86	581,600	581,400	80	33	2,56
589,000	588,800	80	35	2,71	581,400	581,200	80	31	2,41
588,800	588,600	80	36	2,78	581,200	581,000	80	30	2,34
588,600	588,400	80	32	2,49	581,000	580,800	80	31	2,41
588,400	588,200	80	42	3,23	580,800	580,600	80	33	2,56
588,200	588,000	80	31	2,41	580,600	580,400	80	32	2,49
588,000	587,800	80	37	2,86	580,400	580,200	80	37	2,86
587,800	587,600	80	34	2,64	580,200	580,000	80	46	3,53
587,600	587,400	80	36	2,78	580,000	579,800	80	46	3,53
587,400	587,200	80	34	2,64	579,800	579,600	80	51	3,90
587,200	587,000	80	46	3,53	579,600	579,400	80	25	1,89
587,000	586,800	80	43	3,30	579,400	579,200	80	26	1,97
586,800	586,600	80	30	2,34	579,200	579,000	80	28	2,19
586,600	586,400	80	28	2,19	579,000	578,800	80	23	1,74
586,400	586,200	80	36	2,78	578,800	578,600	80	23	1,74
586,200	586,000	80	33	2,56	578,600	578,400	80	31	2,41
586,000	585,800	80	32	2,49	578,400	578,200	80	25	1,89
585,800	585,600	80	31	2,41	578,200	578,000	80	30	2,34
585,600	585,400	80	35	2,71	578,000	577,800	80	37	2,86
585,400	585,200	80	34	2,64	577,800	577,600	80	36	2,78
585,200	585,000	80	36	2,78	577,600	577,400	80	21	1,60
585,000	584,800	80	37	2,86	577,400	577,200	80	19	1,45
584,800	584,600	80	39	3,01	577,200	577,000	80	20	1,52
584,600	584,400	80	38	2,93	577,000	576,800	80	27	2,04
584,400	584,200	80	31	2,41	576,800	576,600	80	22	1,67
584,200	584,000	80	38	2,93	576,600	576,400	80	30	2,34
584,000	583,800	80	40	3,08	576,400	576,200	80	25	1,89
583,800	583,600	80	34	2,64	576,200	576,000	80	24	1,82
583,600	583,400	80	24	1,82	576,000	575,800	80	24	1,82

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
575,800	575,600	80	21	1,60	568,200	568,000	80	33	2,56
575,600	575,400	80	21	1,60	568,000	567,800	80	22	1,67
575,400	575,200	80	21	1,60	567,800	567,600	80	25	1,89
575,200	575,000	80	25	1,89	567,600	567,400	80	32	2,49
575,000	574,800	80	27	2,04	567,400	567,200	80	33	2,56
574,800	574,600	80	28	2,12	567,200	567,000	80	29	2,26
574,600	574,400	80	21	1,60	567,000	566,800	80	27	2,04
574,400	574,200	80	29	2,26	566,800	566,600	80	28	2,19
574,200	574,000	80	26	1,97	566,600	566,400	80	28	2,12
574,000	573,800	80	27	2,04	566,400	566,200	80	33	2,56
573,800	573,600	80	27	2,04	566,200	566,000	80	28	2,19
573,600	573,400	80	27	2,04	566,000	565,800	80	31	2,41
573,400	573,200	80	22	1,67	565,800	565,600	80	29	2,26
573,200	573,000	80	24	1,82	565,600	565,400	80	32	2,49
573,000	572,800	80	27	2,04	565,400	565,200	80	28	2,19
572,800	572,600	80	28	2,19	565,200	565,000	80	28	2,19
572,600	572,400	80	22	1,67	565,000	564,800	80	28	2,19
572,400	572,200	80	28	2,19	564,800	564,600	80	34	2,64
572,200	572,000	80	24	1,82	564,600	564,400	80	31	2,41
572,000	571,800	80	23	1,74	564,400	564,200	80	28	2,12
571,800	571,600	80	28	2,12	564,200	564,000	80	30	2,34
571,600	571,400	80	27	2,04	564,000	563,800	80	38	2,93
571,400	571,200	80	28	2,19	563,800	563,600	80	31	2,41
571,200	571,000	80	34	2,64	563,600	563,400	80	36	2,78
571,000	570,800	80	29	2,26	563,400	563,200	80	30	2,34
570,800	570,600	80	33	2,56	563,200	563,000	80	27	2,04
570,600	570,400	80	27	2,04	563,000	562,800	80	35	2,71
570,400	570,200	80	31	2,41	562,800	562,600	80	30	2,34
570,200	570,000	80	28	2,19	562,600	562,400	80	30	2,34
570,000	569,800	80	28	2,19	562,400	562,200	80	28	2,19
569,800	569,600	80	26	1,97	562,200	562,000	80	32	2,49
569,600	569,400	80	37	2,86	562,000	561,800	80	32	2,49
569,400	569,200	80	34	2,64	561,800	561,600	80	26	1,97
569,200	569,000	80	30	2,34	561,600	561,400	80	28	2,19
569,000	568,800	80	38	2,93	561,400	561,200	80	25	1,89
568,800	568,600	80	28	2,19	561,200	561,000	80	26	1,97
568,600	568,400	80	28	2,19	561,000	560,800	80	25	1,89
568,400	568,200	80	26	1,97	560,800	560,600	80	25	1,89

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
560,600	560,400	80	22	1,67	553,000	552,800	80	24	1,82
560,400	560,200	80	23	1,74	552,800	552,600	80	27	2,04
560,200	560,000	80	18	1,37	552,600	552,400	80	31	2,41
560,000	559,800	80	19	1,45	552,400	552,200	80	22	1,67
559,800	559,600	80	40	3,08	552,200	552,000	80	27	2,04
559,600	559,400	80	30	2,34	552,000	551,800	80	23	1,74
559,400	559,200	80	28	2,12	551,800	551,600	80	22	1,67
559,200	559,000	80	30	2,34	551,600	551,400	80	28	2,12
559,000	558,800	80	28	2,12	551,400	551,200	80	27	2,04
558,800	558,600	80	23	1,74	551,200	551,000	80	26	1,97
558,600	558,400	80	23	1,74	551,000	550,800	50	29	2,20
558,400	558,200	80	20	1,52	550,800	550,600	50	23	1,74
558,200	558,000	80	20	1,52	550,600	550,400	80	23	1,74
558,000	557,800	80	20	1,52	550,400	550,200	80	25	1,89
557,800	557,600	80	21	1,60	550,200	550,000	80	19	1,45
557,600	557,400	80	27	2,04	550,000	549,800	80	19	1,45
557,400	557,200	80	17	1,30	549,800	549,600	80	23	1,74
557,200	557,000	80	17	1,30	549,600	549,400	80	25	1,89
557,000	556,800	80	18	1,37	549,400	549,200	80	26	1,97
556,800	556,600	80	25	1,89	549,200	549,000	80	32	2,49
556,600	556,400	80	21	1,60	549,000	548,800	80	24	1,82
556,400	556,200	80	25	1,89	548,800	548,600	80	22	1,67
556,200	556,000	80	25	1,89	548,600	548,400	80	23	1,74
556,000	555,800	80	20	1,52	548,400	548,200	80	25	1,89
555,800	555,600	80	22	1,67	548,200	548,000	80	23	1,74
555,600	555,400	80	36	2,78	548,000	547,800	80	22	1,67
555,400	555,200	80	34	2,64	547,800	547,600	80	21	1,60
555,200	555,000	80	25	1,89	547,600	547,400	80	18	1,37
555,000	554,800	80	17	1,30	547,400	547,200	80	23	1,74
554,800	554,600	80	23	1,74	547,200	547,000	80	28	2,19
554,600	554,400	80	17	1,30	547,000	546,800	80	25	1,89
554,400	554,200	80	19	1,45	546,800	546,600	80	34	2,64
554,200	554,000	80	24	1,82	546,600	546,400	80	24	1,82
554,000	553,800	80	29	2,26	546,400	546,200	80	23	1,74
553,800	553,600	80	26	1,97	546,200	546,000	80	20	1,52
553,600	553,400	80	25	1,89	546,000	545,800	80	19	1,45
553,400	553,200	80	26	1,97	545,800	545,600	80	25	1,89
553,200	553,000	80	25	1,89	545,600	545,400	80	27	2,04

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
545,400	545,200	80	22	1,67	527,000	526,800	80	24	1,82
545,200	545,000	80	23	1,74	526,800	526,600	80	20	1,52
545,000	544,800	80	35	2,71	526,600	526,400	80	23	1,74
544,800	544,600	80	27	2,04	526,400	526,200	80	23	1,74
544,600	544,400	80	28	2,12	526,200	526,000	80	19	1,45
544,400	544,200	80	24	1,82	526,000	525,800	80	13	1,00
544,200	544,000	80	27	2,04	525,800	525,600	80	15	1,15
544,000	533,000	Oviário de Belo Horizonte			525,600	525,400	80	12	0,93
533,000	532,800	50	33	2,55	525,400	525,200	50	28	2,15
532,800	532,600	50	43	3,30	525,200	525,000	50	28	2,15
532,600	532,400	50	46	3,53	525,000	524,800	80	22	1,67
532,400	532,200	50	43	3,30	524,800	524,600	80	23	1,74
532,200	532,000	50	44	3,36	524,600	524,400	80	22	1,67
532,000	531,800	50	44	3,36	524,400	524,200	80	25	1,89
531,800	531,600	50	53	4,05	524,200	524,000	80	28	2,19
531,600	531,400	50	35	2,66	524,000	523,800	80	29	2,26
531,400	531,200	50	44	3,36	523,800	523,600	80	24	1,82
531,200	531,000	50	41	3,12	523,600	523,400	80	30	2,34
531,000	530,800	50	47	3,59	523,400	523,200	80	25	1,89
530,800	530,600	50	37	2,84	523,200	523,000	80	25	1,89
530,600	530,400	50	33	2,55	523,000	522,800	80	24	1,82
530,400	530,200	50	56	4,33	522,800	522,600	80	22	1,67
530,200	530,000	50	32	2,49	522,600	522,400	80	23	1,74
530,000	529,800	50	35	2,66	522,400	522,200	80	28	2,19
529,800	529,600	80	29	2,26	522,200	522,000	80	17	1,30
529,600	529,400	80	32	2,49	522,000	521,800	80	18	1,37
529,400	529,200	80	33	2,56	521,800	521,600	80	19	1,45
529,200	529,000	80	32	2,49	521,600	521,400	80	23	1,74
529,000	528,800	80	53	4,05	521,400	521,200	80	18	1,37
528,800	528,600	80	37	2,86	521,200	521,000	80	17	1,30
528,600	528,400	80	27	2,04	521,000	520,800	80	21	1,60
528,400	528,200	80	31	2,41	520,800	520,600	80	18	1,37
528,200	528,000	80	20	1,52	520,600	520,400	80	27	2,04
528,000	527,800	80	16	1,22	520,400	520,200	80	19	1,45
527,800	527,600	80	19	1,45	520,200	520,000	80	17	1,30
527,600	527,400	80	20	1,52	520,000	519,800	80	21	1,60
527,400	527,200	80	19	1,45	519,800	519,600	80	18	1,37
527,200	527,000	80	14	1,08	519,600	519,400	80	17	1,30

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
519,400	519,200	80	20	1,52	511,800	511,600	80	28	2,12
519,200	519,000	80	15	1,15	511,600	511,400	80	30	2,34
519,000	518,800	80	21	1,60	511,400	511,200	80	28	2,19
518,800	518,600	80	14	1,08	511,200	511,000	80	25	1,89
518,600	518,400	80	18	1,37	511,000	510,800	80	17	1,30
518,400	518,200	80	18	1,37	510,800	510,600	80	25	1,89
518,200	518,000	80	20	1,52	510,600	510,400	80	25	1,89
518,000	517,800	50	23	1,74	510,400	510,200	80	23	1,74
517,800	517,600	50	21	1,63	510,200	510,000	80	25	1,89
517,600	517,400	50	20	1,51	510,000	509,800	80	25	1,89
517,400	517,200	80	18	1,37	509,800	509,600	80	17	1,30
517,200	517,000	80	19	1,45	509,600	509,400	80	20	1,52
517,000	516,800	80	18	1,37	509,400	509,200	80	21	1,60
516,800	516,600	80	20	1,52	509,200	509,000	80	27	2,04
516,600	516,400	80	22	1,67	509,000	508,800	80	24	1,82
516,400	516,200	80	23	1,74	508,800	508,600	50	26	1,97
516,200	516,000	80	19	1,45	508,600	508,400	50	20	1,51
516,000	515,800	80	26	1,97	508,400	508,200	80	16	1,22
515,800	515,600	80	20	1,52	508,200	508,000	80	25	1,89
515,600	515,400	80	18	1,37	508,000	507,800	80	21	1,60
515,400	515,200	80	19	1,45	507,800	507,600	80	18	1,37
515,200	515,000	80	20	1,52	507,600	507,400	80	22	1,67
515,000	514,800	80	23	1,74	507,400	507,200	80	19	1,45
514,800	514,600	80	21	1,60	507,200	507,000	80	24	1,82
514,600	514,400	80	20	1,52	507,000	506,800	80	22	1,67
514,400	514,200	80	16	1,22	506,800	506,600	80	19	1,45
514,200	514,000	80	22	1,67	506,600	506,400	80	23	1,74
514,000	513,800	80	20	1,52	506,400	506,200	80	23	1,74
513,800	513,600	80	27	2,04	506,200	506,000	80	21	1,60
513,600	513,400	80	33	2,56	506,000	505,800	80	27	2,04
513,400	513,200	80	26	1,97	505,800	505,600	80	30	2,34
513,200	513,000	80	25	1,89	505,600	505,400	80	23	1,74
513,000	512,800	80	24	1,82	505,400	505,200	80	19	1,45
512,800	512,600	80	28	2,12	505,200	505,000	80	24	1,82
512,600	512,400	80	25	1,89	505,000	504,800	80	21	1,60
512,400	512,200	80	25	1,89	504,800	504,600	80	26	1,97
512,200	512,000	80	25	1,89	504,600	504,400	80	20	1,52
512,000	511,800	80	23	1,74	504,400	504,200	80	25	1,89

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
504,200	504,000	80	19	1,45	496,600	496,400	50	57	4,39
504,000	503,800	80	20	1,52	496,400	496,200	50	84	6,47
503,800	503,600	80	30	2,34	496,200	496,000	30	78	5,98
503,600	503,400	80	21	1,60	496,000	495,800	30	34	2,62
503,400	503,200	80	24	1,82	495,800	495,600	30	49	3,76
503,200	503,000	80	21	1,60	495,600	495,400	50	29	2,26
503,000	502,800	80	16	1,22	495,400	495,200	50	30	2,32
502,800	502,600	80	18	1,37	495,200	495,000	50	28	2,15
502,600	502,400	80	16	1,22	495,000	494,800	80	31	2,41
502,400	502,200	80	18	1,37	494,800	494,600	80	26	1,97
502,200	502,000	80	17	1,30	494,600	494,400	80	29	2,26
502,000	501,800	80	17	1,30	494,400	494,200	80	28	2,12
501,800	501,600	80	22	1,67	494,200	494,000	80	34	2,64
501,600	501,400	80	15	1,15	494,000	493,800	80	31	2,41
501,400	501,200	80	16	1,22	493,800	493,600	80	34	2,64
501,200	501,000	80	13	1,00	493,600	493,400	80	30	2,34
501,000	500,800	80	22	1,67	493,400	493,200	80	28	2,12
500,800	500,600	80	25	1,89	493,200	493,000	80	30	2,34
500,600	500,400	80	26	1,97	493,000	492,800	80	36	2,78
500,400	500,200	80	22	1,67	492,800	492,600	80	34	2,64
500,200	500,000	80	20	1,52	492,600	492,400	80	25	1,89
500,000	499,800	80	20	1,52	492,400	492,200	80	30	2,34
499,800	499,600	80	25	1,89	492,200	492,000	80	28	2,12
499,600	499,400	80	28	2,12	492,000	491,800	80	27	2,04
499,400	499,200	80	41	3,15	491,800	491,600	80	28	2,19
499,200	499,000	80	66	5,08	491,600	491,400	80	40	3,08
499,000	498,800	80	53	4,05	491,400	491,200	80	24	1,82
498,800	498,600	80	33	2,56	491,200	491,000	80	29	2,26
498,600	498,400	80	27	2,04	491,000	490,800	80	40	3,08
498,400	498,200	80	26	1,97	490,800	490,600	80	29	2,26
498,200	498,000	80	24	1,82	490,600	490,400	80	31	2,41
498,000	497,800	80	25	1,89	490,400	490,200	80	40	3,08
497,800	497,600	80	25	1,89	490,200	490,000	80	36	2,78
497,600	497,400	80	45	3,45	490,000	489,800	80	34	2,64
497,400	497,200	50	58	4,45	489,800	489,600	80	44	3,38
497,200	497,000	50	68	5,20	489,600	489,400	80	29	2,26
497,000	496,800	50	63	4,85	489,400	489,200	80	35	2,71
496,800	496,600	50	34	2,61	489,200	489,000	80	32	2,49

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
489,000	488,800	80	31	2,41	481,400	481,200	80	31	2,41
488,800	488,600	80	32	2,49	481,200	481,000	80	25	1,89
488,600	488,400	80	34	2,64	481,000	480,800	80	25	1,89
488,400	488,200	80	30	2,34	480,800	480,600	80	28	2,19
488,200	488,000	80	28	2,19	480,600	480,400	80	34	2,64
488,000	487,800	80	26	1,97	480,400	480,200	80	32	2,49
487,800	487,600	80	26	1,97	480,200	480,000	80	29	2,26
487,600	487,400	80	25	1,89	480,000	479,800	80	29	2,26
487,400	487,200	80	25	1,89	479,800	479,600	80	40	3,08
487,200	487,000	80	28	2,19	479,600	479,400	80	30	2,34
487,000	486,800	80	27	2,04	479,400	479,200	80	27	2,04
486,800	486,600	80	30	2,34	479,200	479,000	80	35	2,71
486,600	486,400	80	28	2,12	479,000	478,800	80	34	2,64
486,400	486,200	80	28	2,12	478,800	478,600	80	44	3,38
486,200	486,000	80	27	2,04	478,600	478,400	80	29	2,26
486,000	485,800	80	28	2,12	478,400	478,200	80	28	2,12
485,800	485,600	80	26	1,97	478,200	478,000	80	28	2,12
485,600	485,400	80	26	1,97	478,000	477,800	80	31	2,41
485,400	485,200	80	30	2,34	477,800	477,600	80	31	2,41
485,200	485,000	80	28	2,19	477,600	477,400	80	38	2,93
485,000	484,800	80	33	2,56	477,400	477,200	80	30	2,34
484,800	484,600	80	28	2,19	477,200	477,000	80	28	2,19
484,600	484,400	80	29	2,26	477,000	476,800	80	33	2,56
484,400	484,200	80	39	3,01	476,800	476,600	80	31	2,41
484,200	484,000	80	44	3,38	476,600	476,400	80	44	3,38
484,000	483,800	80	60	4,64	476,400	476,200	80	28	2,12
483,800	483,600	80	22	1,67	476,200	476,000	80	33	2,56
483,600	483,400	80	30	2,34	476,000	475,800	80	37	2,86
483,400	483,200	80	31	2,41	475,800	475,600	80	28	2,12
483,200	483,000	80	28	2,19	475,600	475,400	80	25	1,89
483,000	482,800	80	29	2,26	475,400	475,200	80	27	2,04
482,800	482,600	80	28	2,19	475,200	475,000	50	29	2,20
482,600	482,400	80	31	2,41	475,000	474,800	50	29	2,20
482,400	482,200	80	33	2,56	474,800	474,600	50	28	2,15
482,200	482,000	80	35	2,71	474,600	474,400	80	27	2,04
482,000	481,800	80	30	2,34	474,400	474,200	80	29	2,26
481,800	481,600	80	43	3,30	474,200	474,000	80	26	1,97
481,600	481,400	80	35	2,71	474,000	473,800	80	24	1,82

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
473,800	473,600	80	42	3,23	466,200	466,000	50	37	2,84
473,600	473,400	80	39	3,01	466,000	465,800	50	47	3,59
473,400	473,200	80	27	2,04	465,800	465,600	80	50	3,82
473,200	473,000	80	22	1,67	465,600	465,400	80	35	2,71
473,000	472,800	80	28	2,12	465,400	465,200	80	33	2,56
472,800	472,600	80	17	1,30	465,200	465,000	80	33	2,56
472,600	472,400	80	17	1,30	465,000	464,800	80	51	3,90
472,400	472,200	80	20	1,52	464,800	464,600	80	32	2,49
472,200	472,000	80	18	1,37	464,600	464,400	80	35	2,71
472,000	471,800	50	23	1,74	464,400	464,200	80	52	3,97
471,800	471,600	50	53	4,10	464,200	464,000	80	41	3,15
471,600	471,400	30	62	4,75	464,000	463,800	80	32	2,49
471,400	471,200	30	57	4,42	463,800	463,600	80	54	4,12
471,200	471,000	30	44	3,38	463,600	463,400	80	38	2,93
471,000	470,800	50	31	2,38	463,400	463,200	80	38	2,93
470,800	470,600	50	39	3,01	463,200	463,000	80	36	2,78
470,600	470,400	50	27	2,09	463,000	462,800	80	43	3,30
470,400	470,200	50	29	2,20	462,800	462,600	80	32	2,49
470,200	470,000	50	29	2,26	462,600	462,400	80	33	2,56
470,000	469,800	80	28	2,19	462,400	462,200	80	34	2,64
469,800	469,600	80	25	1,89	462,200	462,000	80	31	2,41
469,600	469,400	80	42	3,23	462,000	461,800	80	35	2,71
469,400	469,200	80	29	2,26	461,800	461,600	80	31	2,41
469,200	469,000	80	34	2,64	461,600	461,400	80	30	2,34
469,000	468,800	80	28	2,12	461,400	461,200	80	26	1,97
468,800	468,600	80	40	3,08	461,200	461,000	80	43	3,30
468,600	468,400	80	36	2,78	461,000	460,800	80	36	2,78
468,400	468,200	80	34	2,64	460,800	460,600	80	53	4,05
468,200	468,000	80	30	2,34	460,600	460,400	80	60	4,64
468,000	467,800	80	27	2,04	460,400	460,200	80	39	3,01
467,800	467,600	80	37	2,86	460,200	460,000	80	45	3,45
467,600	467,400	80	24	1,82	460,000	459,800	80	38	2,93
467,400	467,200	80	32	2,49	459,800	459,600	80	51	3,90
467,200	467,000	50	45	3,47	459,600	459,400	50	29	2,26
467,000	466,800	50	42	3,24	459,400	459,200	50	39	3,01
466,800	466,600	50	65	4,97	459,200	459,000	30	61	4,70
466,600	466,400	50	80	6,18	459,000	458,800	50	49	3,76
466,400	466,200	50	54	4,16	458,800	458,600	50	56	4,33

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
458,600	458,400	50	60	4,62	451,000	450,800	50	53	4,05
458,400	458,200	50	53	4,10	450,800	450,600	50	41	3,12
458,200	458,000	50	41	3,12	450,600	450,400	50	27	2,09
458,000	457,800	50	55	4,22	450,400	450,200	50	41	3,12
457,800	457,600	50	59	4,51	450,200	450,000	50	35	2,66
457,600	457,400	50	36	2,78	450,000	449,800	50	60	4,62
457,400	457,200	50	57	4,39	449,800	449,600	50	60	4,62
457,200	457,000	50	56	4,33	449,600	449,400	50	35	2,66
457,000	456,800	50	52	3,99	449,400	449,200	80	42	3,23
456,800	456,600	50	50	3,82	449,200	449,000	80	29	2,26
456,600	456,400	50	43	3,30	449,000	448,800	80	28	2,12
456,400	456,200	50	62	4,80	448,800	448,600	80	27	2,04
456,200	456,000	50	37	2,84	448,600	448,400	80	38	2,93
456,000	455,800	50	33	2,55	448,400	448,200	80	73	5,60
455,800	455,600	50	35	2,72	448,200	448,000	50	46	3,53
455,600	455,400	80	36	2,78	448,000	447,800	50	38	2,95
455,400	455,200	80	46	3,53	447,800	447,600	50	49	3,76
455,200	455,000	80	40	3,08	447,600	447,400	50	49	3,76
455,000	454,800	80	30	2,34	447,400	447,200	50	38	2,89
454,800	454,600	80	27	2,04	447,200	447,000	50	44	3,36
454,600	454,400	80	26	1,97	447,000	446,800	50	59	4,57
454,400	454,200	80	27	2,04	446,800	446,600	50	51	3,93
454,200	454,000	50	33	2,55	446,600	446,400	50	53	4,10
454,000	453,800	50	36	2,78	446,400	446,200	50	59	4,57
453,800	453,600	50	33	2,55	446,200	446,000	50	40	3,07
453,600	453,400	80	59	4,57	446,000	445,800	50	35	2,66
453,400	453,200	80	33	2,56	445,800	445,600	50	35	2,66
453,200	453,000	80	31	2,41	445,600	445,400	50	34	2,61
453,000	452,800	80	46	3,53	445,400	445,200	50	37	2,84
452,800	452,600	50	43	3,30	445,200	445,000	50	42	3,24
452,600	452,400	50	30	2,32	445,000	444,800	50	56	4,28
452,400	452,200	50	46	3,53	444,800	444,600	30	35	2,67
452,200	452,000	50	50	3,87	444,600	444,400	30	32	2,43
452,000	451,800	50	41	3,12	444,400	444,200	30	30	2,29
451,800	451,600	50	44	3,36	444,200	444,000	30	48	3,66
451,600	451,400	50	43	3,30	444,000	443,800	30	33	2,53
451,400	451,200	50	49	3,76	443,800	443,600	30	32	2,48
451,200	451,000	50	47	3,64	443,600	443,400	30	37	2,81

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
443,400	443,200	50	53	4,05	435,800	435,600	80	63	4,86
443,200	443,000	50	32	2,43	435,600	435,400	80	57	4,42
443,000	442,800	80	52	3,97	435,400	435,200	80	71	5,46
442,800	442,600	80	76	5,83	435,200	435,000	80	49	3,75
442,600	442,400	80	28	2,19	435,000	434,800	80	50	3,82
442,400	442,200	80	96	7,39	434,800	434,600	80	54	4,12
442,200	442,000	80	64	4,94	434,600	434,400	80	46	3,53
442,000	441,800	80	77	5,90	434,400	434,200	80	51	3,90
441,800	441,600	50	68	5,26	434,200	434,000	80	36	2,78
441,600	441,400	50	53	4,10	434,000	433,800	80	31	2,41
441,400	441,200	50	33	2,55	433,800	433,600	80	34	2,64
441,200	441,000	50	47	3,59	433,600	433,400	80	26	1,97
441,000	440,800	50	38	2,95	433,400	433,200	80	23	1,74
440,800	440,600	50	37	2,84	433,200	433,000	80	31	2,41
440,600	440,400	50	33	2,55	433,000	432,800	50	32	2,49
440,400	440,200	50	38	2,89	432,800	432,600	80	30	2,34
440,200	440,000	50	50	3,87	432,600	432,400	80	28	2,12
440,000	439,800	50	37	2,84	432,400	432,200	80	23	1,74
439,800	439,600	50	36	2,78	432,200	432,000	80	25	1,89
439,600	439,400	50	33	2,55	432,000	431,800	80	44	3,38
439,400	439,200	50	34	2,61	431,800	431,600	80	45	3,45
439,200	439,000	50	43	3,30	431,600	431,400	50	56	4,33
439,000	438,800	50	56	4,33	431,400	431,200	50	53	4,10
438,800	438,600	50	41	3,18	431,200	431,000	50	36	2,78
438,600	438,400	50	51	3,93	431,000	430,800	50	52	3,99
438,400	438,200	50	68	5,26	430,800	430,600	50	62	4,74
438,200	438,000	50	62	4,80	430,600	430,400	50	64	4,91
438,000	437,800	80	69	5,31	430,400	430,200	50	90	6,93
437,800	437,600	80	61	4,71	430,200	430,000	50	65	4,97
437,600	437,400	80	30	2,34	430,000	429,800	50	83	6,41
437,400	437,200	80	28	2,19	429,800	429,600	30	66	5,08
437,200	437,000	80	60	4,64	429,600	429,400	30	62	4,75
437,000	436,800	80	97	7,46	429,400	429,200	30	51	3,95
436,800	436,600	80	82	6,27	429,200	429,000	30	63	4,84
436,600	436,400	80	64	4,94	429,000	428,800	30	38	2,95
436,400	436,200	80	89	6,87	428,800	428,600	30	33	2,57
436,200	436,000	80	37	2,86	428,600	428,400	50	41	3,18
436,000	435,800	80	51	3,90	428,400	428,200	50	38	2,95

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
428,200	428,000	50	51	3,93	420,600	420,400	80	26	1,97
428,000	427,800	50	30	2,32	420,400	420,200	80	24	1,82
427,800	427,600	50	37	2,84	420,200	420,000	80	27	2,04
427,600	427,400	30	30	2,29	420,000	419,800	80	26	1,97
427,400	427,200	50	38	2,95	419,800	419,600	80	23	1,74
427,200	427,000	50	35	2,72	419,600	419,400	80	19	1,45
427,000	426,800	50	41	3,18	419,400	419,200	80	20	1,52
426,800	426,600	50	59	4,51	419,200	419,000	80	24	1,82
426,600	426,400	50	49	3,76	419,000	418,800	80	23	1,74
426,400	426,200	50	28	2,15	418,800	418,600	80	25	1,89
426,200	426,000	50	31	2,38	418,600	418,400	80	27	2,04
426,000	425,800	50	29	2,26	418,400	418,200	80	26	1,97
425,800	425,600	50	29	2,20	418,200	418,000	80	25	1,89
425,600	425,400	50	38	2,95	418,000	417,800	80	22	1,67
425,400	425,200	50	33	2,55	417,800	417,600	80	24	1,82
425,200	425,000	50	29	2,26	417,600	417,400	80	25	1,89
425,000	424,800	50	32	2,43	417,400	417,200	80	28	2,19
424,800	424,600	50	28	2,15	417,200	417,000	80	28	2,12
424,600	424,400	50	26	1,97	417,000	416,800	80	27	2,04
424,400	424,200	50	28	2,15	416,800	416,600	80	19	1,45
424,200	424,000	50	46	3,53	416,600	416,400	80	26	1,97
424,000	423,800	50	31	2,38	416,400	416,200	80	25	1,89
423,800	423,600	50	43	3,30	416,200	416,000	80	22	1,67
423,600	423,400	50	35	2,72	416,000	415,800	80	27	2,04
423,400	423,200	50	55	4,22	415,800	415,600	80	25	1,89
423,200	423,000	50	45	3,47	415,600	415,400	80	28	2,19
423,000	422,800	50	31	2,38	415,400	415,200	80	23	1,74
422,800	422,600	80	23	1,74	415,200	415,000	80	23	1,74
422,600	422,400	80	24	1,82	415,000	414,800	80	24	1,82
422,400	422,200	80	23	1,74	414,800	414,600	80	25	1,89
422,200	422,000	80	24	1,82	414,600	414,400	80	26	1,97
422,000	421,800	80	21	1,60	414,400	414,200	80	24	1,82
421,800	421,600	80	20	1,52	414,200	414,000	80	24	1,82
421,600	421,400	80	22	1,67	414,000	413,800	80	21	1,60
421,400	421,200	80	22	1,67	413,800	413,600	80	24	1,82
421,200	421,000	80	23	1,74	413,600	413,400	80	28	2,12
421,000	420,800	80	23	1,74	413,400	413,200	80	23	1,74
420,800	420,600	80	26	1,97	413,200	413,000	80	20	1,52

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
413,000	412,800	80	25	1,89	405,400	405,200	80	37	2,86
412,800	412,600	80	30	2,34	405,200	405,000	80	31	2,41
412,600	412,400	80	32	2,49	405,000	404,800	80	26	1,97
412,400	412,200	80	40	3,08	404,800	404,600	80	37	2,86
412,200	412,000	80	30	2,34	404,600	404,400	80	28	2,12
412,000	411,800	80	29	2,26	404,400	404,200	80	28	2,12
411,800	411,600	80	27	2,04	404,200	404,000	80	31	2,41
411,600	411,400	80	29	2,26	404,000	403,800	80	42	3,23
411,400	411,200	80	35	2,71	403,800	403,600	80	29	2,26
411,200	411,000	80	33	2,56	403,600	403,400	80	35	2,71
411,000	410,800	80	30	2,34	403,400	403,200	80	31	2,41
410,800	410,600	80	37	2,86	403,200	403,000	80	30	2,34
410,600	410,400	80	36	2,78	403,000	402,800	80	28	2,19
410,400	410,200	80	28	2,19	402,800	402,600	80	35	2,71
410,200	410,000	80	29	2,26	402,600	402,400	80	28	2,19
410,000	409,800	80	28	2,12	402,400	402,200	80	29	2,26
409,800	409,600	80	23	1,74	402,200	402,000	80	29	2,26
409,600	409,400	80	24	1,82	402,000	401,800	80	28	2,19
409,400	409,200	80	27	2,04	401,800	401,600	80	52	3,97
409,200	409,000	80	28	2,19	401,600	401,400	50	41	3,18
409,000	408,800	80	25	1,89	401,400	401,200	50	53	4,05
408,800	408,600	80	28	2,19	401,200	401,000	50	50	3,87
408,600	408,400	80	31	2,41	401,000	400,800	50	38	2,89
408,400	408,200	80	29	2,26	400,800	400,600	50	35	2,66
408,200	408,000	80	31	2,41	400,600	400,400	50	36	2,78
408,000	407,800	80	28	2,19	400,400	400,200	50	36	2,78
407,800	407,600	80	30	2,34	400,200	400,000	50	31	2,38
407,600	407,400	80	31	2,41	400,000	399,800	80	32	2,49
407,400	407,200	80	24	1,82	399,800	399,600	80	33	2,56
407,200	407,000	80	28	2,19	399,600	399,400	80	31	2,41
407,000	406,800	80	31	2,41	399,400	399,200	80	28	2,19
406,800	406,600	80	31	2,41	399,200	399,000	80	41	3,15
406,600	406,400	80	33	2,56	399,000	398,800	80	27	2,04
406,400	406,200	80	29	2,26	398,800	398,600	80	28	2,12
406,200	406,000	80	28	2,12	398,600	398,400	80	43	3,30
406,000	405,800	80	29	2,26	398,400	398,200	80	47	3,60
405,800	405,600	80	27	2,04	398,200	398,000	80	38	2,93
405,600	405,400	80	26	1,97	398,000	397,800	80	31	2,41

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
397,800	397,600	80	44	3,38	390,200	390,000	80	46	3,53
397,600	397,400	80	26	1,97	390,000	389,800	80	46	3,53
397,400	397,200	80	28	2,19	389,800	389,600	80	44	3,38
397,200	397,000	80	36	2,78	389,600	389,400	80	50	3,82
397,000	396,800	80	39	3,01	389,400	389,200	80	70	5,38
396,800	396,600	80	34	2,64	389,200	389,000	80	60	4,64
396,600	396,400	80	34	2,64	389,000	388,800	80	68	5,23
396,400	396,200	80	27	2,04	388,800	388,600	80	63	4,86
396,200	396,000	80	28	2,12	388,600	388,400	80	37	2,86
396,000	395,800	80	29	2,26	388,400	388,200	80	46	3,53
395,800	395,600	80	44	3,38	388,200	388,000	80	51	3,90
395,600	395,400	80	60	4,64	388,000	387,800	80	43	3,30
395,400	395,200	80	43	3,30	387,800	387,600	80	44	3,38
395,200	395,000	80	38	2,93	387,600	387,400	80	64	4,94
395,000	394,800	80	49	3,75	387,400	387,200	80	61	4,71
394,800	394,600	80	32	2,49	387,200	387,000	80	53	4,05
394,600	394,400	80	58	4,49	387,000	386,800	80	57	4,42
394,400	394,200	80	53	4,05	386,800	386,600	80	56	4,34
394,200	394,000	80	58	4,49	386,600	386,400	80	53	4,05
394,000	393,800	80	44	3,38	386,400	386,200	80	49	3,75
393,800	393,600	80	41	3,15	386,200	386,000	80	44	3,38
393,600	393,400	80	46	3,53	386,000	385,800	80	44	3,38
393,400	393,200	80	46	3,53	385,800	385,600	80	65	5,01
393,200	393,000	80	48	3,67	385,600	385,400	80	55	4,27
393,000	392,800	80	55	4,27	385,400	385,200	80	49	3,75
392,800	392,600	80	43	3,30	385,200	385,000	80	54	4,12
392,600	392,400	80	53	4,05	385,000	384,800	80	36	2,78
392,400	392,200	80	37	2,86	384,800	384,600	80	35	2,71
392,200	392,000	80	35	2,71	384,600	384,400	80	28	2,19
392,000	391,800	80	37	2,86	384,400	384,200	80	39	3,01
391,800	391,600	80	42	3,23	384,200	384,000	80	31	2,41
391,600	391,400	80	33	2,56	384,000	383,800	80	46	3,53
391,400	391,200	80	45	3,45	383,800	383,600	80	56	4,34
391,200	391,000	80	36	2,78	383,600	383,400	80	68	5,23
391,000	390,800	80	35	2,71	383,400	383,200	80	58	4,49
390,800	390,600	80	51	3,90	383,200	383,000	80	50	3,82
390,600	390,400	80	55	4,19	383,000	382,800	80	38	2,93
390,400	390,200	80	41	3,15	382,800	382,600	80	51	3,90

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
382,600	382,400	80	58	4,49	375,000	374,800	80	71	5,46
382,400	382,200	80	42	3,23	374,800	374,600	80	63	4,86
382,200	382,000	80	28	2,19	374,600	374,400	80	54	4,12
382,000	381,800	80	56	4,34	374,400	374,200	80	36	2,78
381,800	381,600	80	57	4,42	374,200	374,000	80	58	4,49
381,600	381,400	80	54	4,12	374,000	373,800	80	51	3,90
381,400	381,200	80	71	5,46	373,800	373,600	80	58	4,49
381,200	381,000	80	65	5,01	373,600	373,400	80	49	3,75
381,000	380,800	80	78	5,98	373,400	373,200	80	51	3,90
380,800	380,600	80	74	5,68	373,200	373,000	80	50	3,82
380,600	380,400	80	59	4,57	373,000	372,800	80	51	3,90
380,400	380,200	80	62	4,79	372,800	372,600	80	32	2,49
380,200	380,000	80	76	5,83	372,600	372,400	80	42	3,23
380,000	379,800	80	60	4,64	372,400	372,200	80	38	2,93
379,800	379,600	80	52	3,97	372,200	372,000	80	40	3,08
379,600	379,400	80	49	3,75	372,000	371,800	80	44	3,38
379,400	379,200	80	72	5,53	371,800	371,600	80	45	3,45
379,200	379,000	80	74	5,68	371,600	371,400	80	47	3,60
379,000	378,800	80	51	3,90	371,400	371,200	80	67	5,16
378,800	378,600	80	65	5,01	371,200	371,000	80	45	3,45
378,600	378,400	80	45	3,45	371,000	370,800	80	44	3,38
378,400	378,200	80	46	3,53	370,800	370,600	80	39	3,01
378,200	378,000	80	59	4,57	370,600	370,400	80	36	2,78
378,000	377,800	80	55	4,27	370,400	370,200	80	35	2,71
377,800	377,600	80	52	3,97	370,200	370,000	80	37	2,86
377,600	377,400	80	44	3,38	370,000	369,800	80	46	3,53
377,400	377,200	80	55	4,27	369,800	369,600	80	40	3,08
377,200	377,000	80	66	5,08	369,600	369,400	80	35	2,71
377,000	376,800	80	48	3,67	369,400	369,200	80	43	3,30
376,800	376,600	80	26	1,97	369,200	369,000	80	38	2,93
376,600	376,400	80	26	1,97	369,000	368,800	80	40	3,08
376,400	376,200	80	33	2,56	368,800	368,600	80	45	3,45
376,200	376,000	80	29	2,26	368,600	368,400	80	43	3,30
376,000	375,800	80	31	2,41	368,400	368,200	80	54	4,12
375,800	375,600	80	34	2,64	368,200	368,000	80	50	3,82
375,600	375,400	80	32	2,49	368,000	367,800	80	50	3,82
375,400	375,200	80	28	2,19	367,800	367,600	80	57	4,42
375,200	375,000	80	43	3,30	367,600	367,400	80	52	3,97

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INICIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
367,400	367,200	80	54	4,12	359,800	359,600	80	28	2,19
367,200	367,000	80	46	3,53	359,600	359,400	80	27	2,04
367,000	366,800	80	47	3,60	359,400	359,200	80	27	2,04
366,800	366,600	80	35	2,71	359,200	359,000	80	27	2,04
366,600	366,400	80	43	3,30	359,000	358,800	80	31	2,41
366,400	366,200	80	53	4,05	358,800	358,600	80	48	3,67
366,200	366,000	80	48	3,67	358,600	358,400	80	29	2,26
366,000	365,800	80	32	2,49	358,400	358,200	80	78	5,98
365,800	365,600	80	35	2,71	358,200	358,000	80	77	5,90
365,600	365,400	80	35	2,71	358,000	357,800	80	70	5,38
365,400	365,200	80	35	2,71	357,800	357,600	80	67	5,16
365,200	365,000	80	35	2,71	357,600	357,400	80	39	3,01
365,000	364,800	80	45	3,45	357,400	357,200	80	51	3,90
364,800	364,600	80	32	2,49	357,200	357,000	80	36	2,78
364,600	364,400	80	32	2,49	357,000	356,800	80	32	2,49
364,400	364,200	80	33	2,56	356,800	356,600	80	42	3,23
364,200	364,000	80	38	2,93	356,600	356,400	80	65	5,01
364,000	363,800	80	50	3,82	356,400	356,200	80	55	4,27
363,800	363,600	80	29	2,26	356,200	356,000	80	51	3,90
363,600	363,400	80	28	2,12	356,000	355,800	80	48	3,67
363,400	363,200	80	29	2,26	355,800	355,600	80	39	3,01
363,200	363,000	80	31	2,41	355,600	355,400	80	47	3,60
363,000	362,800	80	27	2,04	355,400	355,200	80	37	2,86
362,800	362,600	80	34	2,64	355,200	355,000	80	35	2,71
362,600	362,400	80	36	2,78	355,000	354,800	80	34	2,64
362,400	362,200	80	30	2,34	354,800	354,600	80	33	2,56
362,200	362,000	80	41	3,15	354,600	354,400	80	38	2,93
362,000	361,800	80	35	2,71	354,400	354,200	80	41	3,15
361,800	361,600	80	32	2,49	354,200	354,000	80	33	2,56
361,600	361,400	80	30	2,34	354,000	353,800	80	29	2,26
361,400	361,200	80	28	2,12	353,800	353,600	80	31	2,41
361,200	361,000	80	26	1,97	353,600	353,400	80	28	2,19
361,000	360,800	80	29	2,26	353,400	353,200	80	36	2,78
360,800	360,600	80	35	2,71	353,200	353,000	80	28	2,19
360,600	360,400	80	32	2,49	353,000	352,800	80	28	2,19
360,400	360,200	80	33	2,56	352,800	352,600	80	29	2,26
360,200	360,000	80	34	2,64	352,600	352,400	80	30	2,34
360,000	359,800	80	29	2,26	352,400	352,200	80	28	2,19

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
352,200	352,000	80	28	2,19	344,600	344,400	80	32	2,49
352,000	351,800	80	27	2,04	344,400	344,200	80	28	2,19
351,800	351,600	80	27	2,04	344,200	344,000	80	29	2,26
351,600	351,400	80	30	2,34	344,000	343,800	80	33	2,56
351,400	351,200	80	28	2,12	343,800	343,600	80	31	2,41
351,200	351,000	80	35	2,71	343,600	343,400	80	28	2,19
351,000	350,800	80	35	2,71	343,400	343,200	80	32	2,49
350,800	350,600	80	40	3,08	343,200	343,000	80	29	2,26
350,600	350,400	80	28	2,19	343,000	342,800	80	32	2,49
350,400	350,200	80	28	2,12	342,800	342,600	80	29	2,26
350,200	350,000	80	36	2,78	342,600	342,400	80	34	2,64
350,000	349,800	80	31	2,41	342,400	342,200	80	35	2,71
349,800	349,600	80	30	2,34	342,200	342,000	80	33	2,56
349,600	349,400	80	28	2,12	342,000	341,800	80	31	2,41
349,400	349,200	80	30	2,34	341,800	341,600	80	32	2,49
349,200	349,000	80	30	2,34	341,600	341,400	80	37	2,86
349,000	348,800	80	35	2,71	341,400	341,200	80	36	2,78
348,800	348,600	80	32	2,49	341,200	341,000	80	31	2,41
348,600	348,400	80	33	2,56	341,000	340,800	80	34	2,64
348,400	348,200	80	34	2,64	340,800	340,600	80	29	2,26
348,200	348,000	80	27	2,04	340,600	340,400	80	46	3,53
348,000	347,800	80	29	2,26	340,400	340,200	80	36	2,78
347,800	347,600	80	32	2,49	340,200	340,000	80	35	2,71
347,600	347,400	80	31	2,41	340,000	339,800	80	36	2,78
347,400	347,200	80	34	2,64	339,800	339,600	80	36	2,78
347,200	347,000	80	31	2,41	339,600	339,400	80	34	2,64
347,000	346,800	80	31	2,41	339,400	339,200	80	31	2,41
346,800	346,600	80	29	2,26	339,200	339,000	80	28	2,12
346,600	346,400	80	28	2,19	339,000	338,800	80	27	2,04
346,400	346,200	80	29	2,26	338,800	338,600	80	29	2,26
346,200	346,000	80	32	2,49	338,600	338,400	80	30	2,34
346,000	345,800	80	30	2,34	338,400	338,200	80	28	2,19
345,800	345,600	80	30	2,34	338,200	338,000	80	28	2,19
345,600	345,400	80	28	2,19	338,000	337,800	80	28	2,19
345,400	345,200	80	28	2,12	337,800	337,600	80	27	2,04
345,200	345,000	80	27	2,04	337,600	337,400	80	28	2,12
345,000	344,800	80	25	1,89	337,400	337,200	80	28	2,19
344,800	344,600	80	28	2,12	337,200	337,000	80	33	2,56

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
337,000	336,800	80	32	2,49	329,400	329,200	80	29	2,26
336,800	336,600	80	29	2,26	329,200	329,000	80	30	2,34
336,600	336,400	80	30	2,34	329,000	328,800	80	28	2,19
336,400	336,200	80	28	2,12	328,800	328,600	80	30	2,34
336,200	336,000	80	29	2,26	328,600	328,400	80	34	2,64
336,000	335,800	80	24	1,82	328,400	328,200	80	31	2,41
335,800	335,600	80	26	1,97	328,200	328,000	80	27	2,04
335,600	335,400	80	30	2,34	328,000	327,800	80	25	1,89
335,400	335,200	80	26	1,97	327,800	327,600	80	28	2,12
335,200	335,000	80	28	2,12	327,600	327,400	80	27	2,04
335,000	334,800	80	28	2,12	327,400	327,200	80	25	1,89
334,800	334,600	80	29	2,26	327,200	327,000	80	28	2,12
334,600	334,400	80	28	2,12	327,000	326,800	80	31	2,41
334,400	334,200	80	23	1,74	326,800	326,600	80	24	1,82
334,200	334,000	80	26	1,97	326,600	326,400	80	27	2,04
334,000	333,800	80	21	1,60	326,400	326,200	80	28	2,19
333,800	333,600	80	24	1,82	326,200	326,000	80	30	2,34
333,600	333,400	80	28	2,12	326,000	325,800	80	31	2,41
333,400	333,200	80	23	1,74	325,800	325,600	80	33	2,56
333,200	333,000	80	24	1,82	325,600	325,400	80	40	3,08
333,000	332,800	80	32	2,49	325,400	325,200	80	33	2,56
332,800	332,600	80	32	2,49	325,200	325,000	80	41	3,15
332,600	332,400	80	31	2,41	325,000	324,800	80	47	3,60
332,400	332,200	80	28	2,12	324,800	324,600	80	36	2,78
332,200	332,000	80	27	2,04	324,600	324,400	80	33	2,56
332,000	331,800	80	31	2,41	324,400	324,200	80	31	2,41
331,800	331,600	80	28	2,19	324,200	324,000	80	29	2,26
331,600	331,400	80	28	2,19	324,000	323,800	80	30	2,34
331,400	331,200	80	29	2,26	323,800	323,600	80	28	2,12
331,200	331,000	80	31	2,41	323,600	323,400	80	28	2,19
331,000	330,800	80	33	2,56	323,400	323,200	80	28	2,12
330,800	330,600	80	30	2,34	323,200	323,000	80	29	2,26
330,600	330,400	80	28	2,19	323,000	322,800	80	23	1,74
330,400	330,200	80	29	2,26	322,800	322,600	80	29	2,26
330,200	330,000	80	29	2,26	322,600	322,400	80	30	2,34
330,000	329,800	80	33	2,56	322,400	322,200	80	32	2,49
329,800	329,600	80	27	2,04	322,200	322,000	80	29	2,26
329,600	329,400	80	28	2,19	322,000	321,800	80	30	2,34

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
321,800	321,600	80	28	2,19	314,200	314,000	80	32	2,49
321,600	321,400	80	29	2,26	314,000	313,800	80	29	2,26
321,400	321,200	80	28	2,19	313,800	313,600	80	32	2,49
321,200	321,000	80	30	2,34	313,600	313,400	80	28	2,19
321,000	320,800	80	27	2,04	313,400	313,200	80	34	2,64
320,800	320,600	80	26	1,97	313,200	313,000	80	37	2,86
320,600	320,400	80	28	2,12	313,000	312,800	80	29	2,26
320,400	320,200	80	35	2,71	312,800	312,600	80	28	2,12
320,200	320,000	50	35	2,72	312,600	312,400	80	34	2,64
320,000	319,800	50	35	2,72	312,400	312,200	80	33	2,56
319,800	319,600	50	26	2,03	312,200	312,000	80	31	2,41
319,600	319,400	50	32	2,49	312,000	311,800	80	32	2,49
319,400	319,200	80	28	2,12	311,800	311,600	80	33	2,56
319,200	319,000	80	28	2,19	311,600	311,400	80	31	2,41
319,000	318,800	80	25	1,89	311,400	311,200	80	31	2,41
318,800	318,600	80	31	2,41	311,200	311,000	80	31	2,41
318,600	318,400	80	32	2,49	311,000	310,800	80	31	2,41
318,400	318,200	80	31	2,41	310,800	310,600	80	28	2,19
318,200	318,000	80	34	2,64	310,600	310,400	80	27	2,04
318,000	317,800	80	35	2,71	310,400	310,200	80	32	2,49
317,800	317,600	80	24	1,82	310,200	310,000	80	28	2,19
317,600	317,400	80	34	2,64	310,000	309,800	80	30	2,34
317,400	317,200	80	31	2,41	309,800	309,600	80	31	2,41
317,200	317,000	80	33	2,56	309,600	309,400	80	28	2,19
317,000	316,800	80	31	2,41	309,400	309,200	80	30	2,34
316,800	316,600	80	33	2,56	309,200	309,000	80	28	2,12
316,600	316,400	80	27	2,04	309,000	308,800	80	31	2,41
316,400	316,200	80	30	2,34	308,800	308,600	80	30	2,34
316,200	316,000	80	28	2,19	308,600	308,400	80	31	2,41
316,000	315,800	80	36	2,78	308,400	308,200	80	30	2,34
315,800	315,600	80	39	3,01	308,200	308,000	80	27	2,04
315,600	315,400	80	32	2,49	308,000	307,800	80	28	2,19
315,400	315,200	80	29	2,26	307,800	307,600	80	27	2,04
315,200	315,000	80	29	2,26	307,600	307,400	80	23	1,74
315,000	314,800	80	27	2,04	307,400	307,200	80	31	2,41
314,800	314,600	80	28	2,19	307,200	307,000	80	28	2,12
314,600	314,400	80	28	2,12	307,000	306,800	80	29	2,26
314,400	314,200	80	25	1,89	306,800	306,600	80	28	2,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
306,600	306,400	80	28	2,12	299,000	298,800	80	37	2,86
306,400	306,200	80	27	2,04	298,800	298,600	80	36	2,78
306,200	306,000	80	28	2,12	298,600	298,400	80	32	2,49
306,000	305,800	80	30	2,34	298,400	298,200	80	33	2,56
305,800	305,600	80	31	2,41	298,200	298,000	80	30	2,34
305,600	305,400	80	28	2,12	298,000	297,800	80	32	2,49
305,400	305,200	80	32	2,49	297,800	297,600	80	32	2,49
305,200	305,000	80	28	2,12	297,600	297,400	80	32	2,49
305,000	304,800	80	23	1,74	297,400	297,200	80	32	2,49
304,800	304,600	80	22	1,67	297,200	297,000	80	34	2,64
304,600	304,400	80	22	1,67	297,000	296,800	80	36	2,78
304,400	304,200	80	22	1,67	296,800	296,600	80	33	2,56
304,200	304,000	80	26	1,97	296,600	296,400	50	35	2,66
304,000	303,800	80	22	1,67	296,400	296,200	30	40	3,05
303,800	303,600	80	25	1,89	296,200	296,000	50	38	2,95
303,600	303,400	80	25	1,89	296,000	295,800	50	39	3,01
303,400	303,200	80	23	1,74	295,800	295,600	50	37	2,84
303,200	303,000	80	25	1,89	295,600	295,400	80	37	2,86
303,000	302,800	80	21	1,60	295,400	295,200	80	31	2,41
302,800	302,600	80	20	1,52	295,200	295,000	80	55	4,19
302,600	302,400	80	21	1,60	295,000	294,800	80	34	2,64
302,400	302,200	80	21	1,60	294,800	294,600	80	31	2,41
302,200	302,000	80	25	1,89	294,600	294,400	80	38	2,93
302,000	301,800	80	28	2,19	294,400	294,200	80	33	2,56
301,800	301,600	80	28	2,12	294,200	294,000	80	31	2,41
301,600	301,400	80	28	2,19	294,000	293,800	80	34	2,64
301,400	301,200	80	32	2,49	293,800	293,600	80	34	2,64
301,200	301,000	80	36	2,78	293,600	293,400	80	31	2,41
301,000	300,800	80	29	2,26	293,400	293,200	80	32	2,49
300,800	300,600	80	35	2,71	293,200	293,000	80	33	2,56
300,600	300,400	80	31	2,41	293,000	292,800	80	32	2,49
300,400	300,200	80	39	3,01	292,800	292,600	80	31	2,41
300,200	300,000	80	35	2,71	292,600	292,400	80	28	2,12
300,000	299,800	80	34	2,64	292,400	292,200	80	32	2,49
299,800	299,600	80	38	2,93	292,200	292,000	80	28	2,19
299,600	299,400	80	32	2,49	292,000	291,800	80	37	2,86
299,400	299,200	80	48	3,67	291,800	291,600	80	56	4,34
299,200	299,000	80	32	2,49	291,600	291,400	80	41	3,15

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
291,400	291,200	80	51	3,90	283,800	283,600	50	65	5,03
291,200	291,000	80	32	2,49	283,600	283,400	80	55	4,19
291,000	290,800	80	24	1,82	283,400	283,200	80	43	3,30
290,800	290,600	80	51	3,90	283,200	283,000	80	32	2,49
290,600	290,400	80	57	4,42	283,000	282,800	80	43	3,30
290,400	290,200	80	68	5,23	282,800	282,600	80	47	3,60
290,200	290,000	80	49	3,75	282,600	282,400	80	28	2,12
290,000	289,800	80	58	4,49	282,400	282,200	80	32	2,49
289,800	289,600	80	62	4,79	282,200	282,000	80	45	3,45
289,600	289,400	80	45	3,45	282,000	281,800	80	24	1,82
289,400	289,200	80	60	4,64	281,800	281,600	80	26	1,97
289,200	289,000	80	55	4,27	281,600	281,400	80	35	2,71
289,000	288,800	80	69	5,31	281,400	281,200	80	23	1,74
288,800	288,600	80	56	4,34	281,200	281,000	80	34	2,64
288,600	288,400	80	60	4,64	281,000	280,800	80	30	2,34
288,400	288,200	80	67	5,16	280,800	280,600	80	29	2,26
288,200	288,000	80	54	4,12	280,600	280,400	80	24	1,82
288,000	287,800	80	71	5,46	280,400	280,200	80	21	1,60
287,800	287,600	80	61	4,71	280,200	280,000	80	23	1,74
287,600	287,400	80	32	2,49	280,000	279,800	80	19	1,45
287,400	287,200	80	38	2,93	279,800	279,600	80	21	1,60
287,200	287,000	80	42	3,23	279,600	279,400	80	19	1,45
287,000	286,800	80	35	2,71	279,400	279,200	80	23	1,74
286,800	286,600	80	40	3,08	279,200	279,000	80	19	1,45
286,600	286,400	80	25	1,89	279,000	278,800	80	27	2,04
286,400	286,200	80	34	2,64	278,800	278,600	80	24	1,82
286,200	286,000	80	28	2,19	278,600	278,400	80	40	3,08
286,000	285,800	80	27	2,04	278,400	278,200	80	44	3,38
285,800	285,600	80	24	1,82	278,200	278,000	80	40	3,08
285,600	285,400	80	30	2,34	278,000	277,800	80	31	2,41
285,400	285,200	80	23	1,74	277,800	277,600	80	42	3,23
285,200	285,000	80	25	1,89	277,600	277,400	80	40	3,08
285,000	284,800	80	24	1,82	277,400	277,200	50	37	2,84
284,800	284,600	80	31	2,41	277,200	277,000	50	27	2,09
284,600	284,400	80	39	3,01	277,000	276,800	50	35	2,66
284,400	284,200	80	27	2,04	276,800	276,600	50	35	2,66
284,200	284,000	50	33	2,55	276,600	276,400	50	31	2,38
284,000	283,800	50	54	4,16	276,400	276,200	50	29	2,26

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
276,200	276,000	50	28	2,15	268,600	268,400	80	44	3,38
276,000	275,800	50	29	2,26	268,400	268,200	80	30	2,34
275,800	275,600	50	29	2,26	268,200	268,000	80	37	2,86
275,600	275,400	50	29	2,26	268,000	267,800	80	51	3,90
275,400	275,200	50	30	2,32	267,800	267,600	80	37	2,86
275,200	275,000	50	29	2,26	267,600	267,400	80	29	2,26
275,000	274,800	50	26	1,97	267,400	267,200	80	33	2,56
274,800	274,600	50	28	2,15	267,200	267,000	80	28	2,12
274,600	274,400	50	23	1,80	267,000	266,800	80	43	3,30
274,400	274,200	30	27	2,10	266,800	266,600	80	32	2,49
274,200	274,000	30	22	1,67	266,600	266,400	80	22	1,67
274,000	273,800	50	20	1,57	266,400	266,200	80	23	1,74
273,800	273,600	50	20	1,57	266,200	266,000	80	32	2,49
273,600	273,400	50	17	1,28	266,000	265,800	80	43	3,30
273,400	273,200	30	33	2,53	265,800	265,600	80	40	3,08
273,200	273,000	30	24	1,86	265,600	265,400	80	27	2,04
273,000	272,800	50	26	1,97	265,400	265,200	80	28	2,12
272,800	272,600	50	22	1,68	265,200	265,000	80	33	2,56
272,600	272,400	80	16	1,22	265,000	264,800	80	30	2,34
272,400	272,200	80	23	1,74	264,800	264,600	80	32	2,49
272,200	272,000	80	62	4,79	264,600	264,400	80	38	2,93
272,000	271,800	80	59	4,57	264,400	264,200	80	33	2,56
271,800	271,600	80	21	1,60	264,200	264,000	80	28	2,12
271,600	271,400	50	25	1,91	264,000	263,800	80	39	3,01
271,400	271,200	50	25	1,91	263,800	263,600	80	56	4,34
271,200	271,000	50	23	1,74	263,600	263,400	80	49	3,75
271,000	270,800	50	20	1,57	263,400	263,200	80	56	4,34
270,800	270,600	50	22	1,68	263,200	263,000	80	51	3,90
270,600	270,400	50	23	1,74	263,000	262,800	80	51	3,90
270,400	270,200	50	25	1,91	262,800	262,600	80	47	3,60
270,200	270,000	50	24	1,86	262,600	262,400	80	38	2,93
270,000	269,800	80	21	1,60	262,400	262,200	80	31	2,41
269,800	269,600	80	24	1,82	262,200	262,000	80	37	2,86
269,600	269,400	80	28	2,12	262,000	261,800	80	44	3,38
269,400	269,200	80	28	2,12	261,800	261,600	80	49	3,75
269,200	269,000	80	24	1,82	261,600	261,400	80	62	4,79
269,000	268,800	80	28	2,19	261,400	261,200	80	47	3,60
268,800	268,600	80	38	2,93	261,200	261,000	80	40	3,08

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
261,000	260,800	80	46	3,53	253,400	253,200	80	35	2,71
260,800	260,600	80	40	3,08	253,200	253,000	80	36	2,78
260,600	260,400	80	43	3,30	253,000	252,800	80	30	2,34
260,400	260,200	80	44	3,38	252,800	252,600	80	34	2,64
260,200	260,000	80	37	2,86	252,600	252,400	80	35	2,71
260,000	259,800	80	41	3,15	252,400	252,200	80	34	2,64
259,800	259,600	80	46	3,53	252,200	252,000	80	35	2,71
259,600	259,400	80	57	4,42	252,000	251,800	80	32	2,49
259,400	259,200	80	60	4,64	251,800	251,600	80	32	2,49
259,200	259,000	80	56	4,34	251,600	251,400	80	28	2,19
259,000	258,800	80	55	4,27	251,400	251,200	80	37	2,86
258,800	258,600	80	58	4,49	251,200	251,000	80	34	2,64
258,600	258,400	80	51	3,90	251,000	250,800	80	51	3,90
258,400	258,200	80	51	3,90	250,800	250,600	80	47	3,60
258,200	258,000	80	49	3,75	250,600	250,400	80	48	3,67
258,000	257,800	80	43	3,30	250,400	250,200	80	51	3,90
257,800	257,600	80	45	3,45	250,200	250,000	80	52	3,97
257,600	257,400	80	54	4,12	250,000	249,800	80	53	4,05
257,400	257,200	80	53	4,05	249,800	249,600	80	38	2,93
257,200	257,000	80	55	4,19	249,600	249,400	80	28	2,19
257,000	256,800	80	53	4,05	249,400	249,200	80	28	2,12
256,800	256,600	80	50	3,82	249,200	249,000	80	32	2,49
256,600	256,400	80	47	3,60	249,000	248,800	80	35	2,71
256,400	256,200	80	46	3,53	248,800	248,600	80	35	2,71
256,200	256,000	80	37	2,86	248,600	248,400	80	30	2,34
256,000	255,800	80	31	2,41	248,400	248,200	80	32	2,49
255,800	255,600	80	45	3,45	248,200	248,000	80	21	1,60
255,600	255,400	80	45	3,45	248,000	247,800	80	26	1,97
255,400	255,200	80	52	3,97	247,800	247,600	80	25	1,89
255,200	255,000	80	51	3,90	247,600	247,400	80	23	1,74
255,000	254,800	80	56	4,34	247,400	247,200	80	20	1,52
254,800	254,600	80	48	3,67	247,200	247,000	80	19	1,45
254,600	254,400	80	39	3,01	247,000	246,800	80	32	2,49
254,400	254,200	80	32	2,49	246,800	246,600	80	43	3,30
254,200	254,000	80	40	3,08	246,600	246,400	80	47	3,60
254,000	253,800	80	39	3,01	246,400	246,200	80	51	3,90
253,800	253,600	80	38	2,93	246,200	246,000	80	39	3,01
253,600	253,400	80	35	2,71	246,000	245,800	80	65	5,01

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
245,800	245,600	80	32	2,49	238,200	238,000	80	31	2,41
245,600	245,400	80	26	1,97	238,000	237,800	80	27	2,04
245,400	245,200	80	32	2,49	237,800	237,600	80	26	1,97
245,200	245,000	80	36	2,78	237,600	237,400	80	29	2,26
245,000	244,800	80	20	1,52	237,400	237,200	80	28	2,19
244,800	244,600	80	34	2,64	237,200	237,000	80	24	1,82
244,600	244,400	80	38	2,93	237,000	236,800	80	26	1,97
244,400	244,200	80	28	2,19	236,800	236,600	80	28	2,19
244,200	244,000	80	28	2,19	236,600	236,400	50	44	3,41
244,000	243,800	80	22	1,67	236,400	236,200	50	53	4,10
243,800	243,600	80	25	1,89	236,200	236,000	50	41	3,18
243,600	243,400	80	27	2,04	236,000	235,800	80	31	2,41
243,400	243,200	80	25	1,89	235,800	235,600	80	30	2,34
243,200	243,000	80	23	1,74	235,600	235,400	80	38	2,93
243,000	242,800	80	27	2,04	235,400	235,200	80	33	2,56
242,800	242,600	80	40	3,08	235,200	235,000	80	36	2,78
242,600	242,400	80	30	2,34	235,000	234,800	80	36	2,78
242,400	242,200	80	45	3,45	234,800	234,600	80	41	3,15
242,200	242,000	80	36	2,78	234,600	234,400	80	41	3,15
242,000	241,800	80	29	2,26	234,400	234,200	80	44	3,38
241,800	241,600	80	28	2,19	234,200	234,000	80	35	2,71
241,600	241,400	80	24	1,82	234,000	233,800	80	37	2,86
241,400	241,200	80	25	1,89	233,800	233,600	80	34	2,64
241,200	241,000	80	35	2,71	233,600	233,400	80	31	2,41
241,000	240,800	80	28	2,12	233,400	233,200	80	32	2,49
240,800	240,600	80	20	1,52	233,200	233,000	80	36	2,78
240,600	240,400	80	35	2,71	233,000	232,800	80	33	2,56
240,400	240,200	80	25	1,89	232,800	232,600	80	43	3,30
240,200	240,000	80	24	1,82	232,600	232,400	80	35	2,71
240,000	239,800	80	20	1,52	232,400	232,200	80	39	3,01
239,800	239,600	80	21	1,60	232,200	232,000	80	34	2,64
239,600	239,400	80	29	2,26	232,000	231,800	50	35	2,66
239,400	239,200	80	20	1,52	231,800	231,600	50	32	2,49
239,200	239,000	80	26	1,97	231,600	231,400	50	43	3,30
239,000	238,800	80	22	1,67	231,400	231,200	50	31	2,38
238,800	238,600	80	25	1,89	231,200	231,000	50	35	2,72
238,600	238,400	80	29	2,26	231,000	230,800	50	35	2,66
238,400	238,200	80	22	1,67	230,800	230,600	80	38	2,93

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
230,600	230,400	80	37	2,86	223,000	222,800	80	31	2,41
230,400	230,200	80	33	2,56	222,800	222,600	80	30	2,34
230,200	230,000	80	33	2,56	222,600	222,400	80	36	2,78
230,000	229,800	80	35	2,71	222,400	222,200	80	26	1,97
229,800	229,600	80	28	2,12	222,200	222,000	80	32	2,49
229,600	229,400	80	35	2,71	222,000	221,800	80	28	2,12
229,400	229,200	80	32	2,49	221,800	221,600	80	35	2,71
229,200	229,000	80	41	3,15	221,600	221,400	80	36	2,78
229,000	228,800	80	27	2,04	221,400	221,200	80	25	1,89
228,800	228,600	80	24	1,82	221,200	221,000	80	26	1,97
228,600	228,400	80	24	1,82	221,000	220,800	80	22	1,67
228,400	228,200	80	29	2,26	220,800	220,600	80	22	1,67
228,200	228,000	80	28	2,19	220,600	220,400	80	24	1,82
228,000	227,800	80	26	1,97	220,400	220,200	80	21	1,60
227,800	227,600	80	28	2,19	220,200	220,000	80	23	1,74
227,600	227,400	80	29	2,26	220,000	219,800	80	36	2,78
227,400	227,200	80	26	1,97	219,800	219,600	80	31	2,41
227,200	227,000	80	33	2,56	219,600	219,400	80	24	1,82
227,000	226,800	50	32	2,43	219,400	219,200	80	28	2,19
226,800	226,600	50	31	2,38	219,200	219,000	80	28	2,12
226,600	226,400	50	32	2,43	219,000	218,800	80	33	2,56
226,400	226,200	50	31	2,38	218,800	218,600	80	26	1,97
226,200	226,000	50	35	2,72	218,600	218,400	80	28	2,19
226,000	225,800	50	35	2,72	218,400	218,200	80	32	2,49
225,800	225,600	50	26	2,03	218,200	218,000	80	31	2,41
225,600	225,400	50	29	2,20	218,000	217,800	80	34	2,64
225,400	225,200	50	31	2,38	217,800	217,600	80	37	2,86
225,200	225,000	30	30	2,29	217,600	217,400	80	37	2,86
225,000	224,800	30	26	2,01	217,400	217,200	80	28	2,12
224,800	224,600	30	28	2,15	217,200	217,000	80	23	1,74
224,600	224,400	30	27	2,10	217,000	216,800	80	28	2,19
224,400	224,200	30	28	2,15	216,800	216,600	80	31	2,41
224,200	224,000	30	32	2,43	216,600	216,400	80	28	2,19
224,000	223,800	50	44	3,41	216,400	216,200	80	28	2,12
223,800	223,600	50	32	2,49	216,200	216,000	80	36	2,78
223,600	223,400	50	34	2,61	216,000	215,800	80	29	2,26
223,400	223,200	80	33	2,56	215,800	215,600	80	32	2,49
223,200	223,000	80	37	2,86	215,600	215,400	80	29	2,26

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
215,400	215,200	80	45	3,45	207,800	207,600	80	28	2,19
215,200	215,000	80	41	3,15	207,600	207,400	80	24	1,82
215,000	214,800	80	32	2,49	207,400	207,200	80	19	1,45
214,800	214,600	80	36	2,78	207,200	207,000	80	22	1,67
214,600	214,400	80	35	2,71	207,000	206,800	80	22	1,67
214,400	214,200	80	42	3,23	206,800	206,600	80	29	2,26
214,200	214,000	80	45	3,45	206,600	206,400	80	33	2,56
214,000	213,800	80	37	2,86	206,400	206,200	80	40	3,08
213,800	213,600	80	33	2,56	206,200	206,000	80	26	1,97
213,600	213,400	80	33	2,56	206,000	205,800	80	20	1,52
213,400	213,200	80	28	2,12	205,800	205,600	80	19	1,45
213,200	213,000	80	28	2,19	205,600	205,400	80	30	2,34
213,000	212,800	80	28	2,12	205,400	205,200	80	24	1,82
212,800	212,600	80	29	2,26	205,200	205,000	80	23	1,74
212,600	212,400	80	27	2,04	205,000	204,800	80	24	1,82
212,400	212,200	80	32	2,49	204,800	204,600	80	32	2,49
212,200	212,000	80	29	2,26	204,600	204,400	80	25	1,89
212,000	211,800	80	23	1,74	204,400	204,200	80	34	2,64
211,800	211,600	80	24	1,82	204,200	204,000	80	46	3,53
211,600	211,400	80	28	2,12	204,000	203,800	80	42	3,23
211,400	211,200	80	25	1,89	203,800	203,600	80	30	2,34
211,200	211,000	80	26	1,97	203,600	203,400	80	31	2,41
211,000	210,800	80	27	2,04	203,400	203,200	80	28	2,12
210,800	210,600	80	28	2,12	203,200	203,000	80	27	2,04
210,600	210,400	80	26	1,97	203,000	202,800	80	28	2,19
210,400	210,200	80	25	1,89	202,800	202,600	80	25	1,89
210,200	210,000	80	36	2,78	202,600	202,400	80	29	2,26
210,000	209,800	80	27	2,04	202,400	202,200	80	27	2,04
209,800	209,600	80	26	1,97	202,200	202,000	80	28	2,19
209,600	209,400	80	22	1,67	202,000	201,800	80	19	1,45
209,400	209,200	80	23	1,74	201,800	201,600	80	23	1,74
209,200	209,000	80	23	1,74	201,600	201,400	80	25	1,89
209,000	208,800	80	18	1,37	201,400	201,200	80	24	1,82
208,800	208,600	80	23	1,74	201,200	201,000	80	26	1,97
208,600	208,400	80	35	2,71	201,000	200,800	80	25	1,89
208,400	208,200	80	40	3,08	200,800	200,600	80	34	2,64
208,200	208,000	80	24	1,82	200,600	200,400	80	29	2,26
208,000	207,800	80	25	1,89	200,400	200,200	80	30	2,34

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
200,200	200,000	80	39	3,01	192,600	192,400	80	23	1,74
200,000	199,800	80	44	3,38	192,400	192,200	80	28	2,19
199,800	199,600	80	28	2,12	192,200	192,000	80	30	2,34
199,600	199,400	80	28	2,12	192,000	191,800	80	33	2,56
199,400	199,200	80	37	2,86	191,800	191,600	80	26	1,97
199,200	199,000	80	22	1,67	191,600	191,400	80	35	2,71
199,000	198,800	80	29	2,26	191,400	191,200	80	36	2,78
198,800	198,600	80	29	2,26	191,200	191,000	80	34	2,64
198,600	198,400	80	35	2,71	191,000	190,800	80	33	2,56
198,400	198,200	80	29	2,26	190,800	190,600	80	39	3,01
198,200	198,000	80	32	2,49	190,600	190,400	80	36	2,78
198,000	197,800	80	30	2,34	190,400	190,200	80	60	4,64
197,800	197,600	80	37	2,86	190,200	190,000	80	47	3,60
197,600	197,400	80	33	2,56	190,000	189,800	80	32	2,49
197,400	197,200	80	33	2,56	189,800	189,600	80	39	3,01
197,200	197,000	80	26	1,97	189,600	189,400	80	49	3,75
197,000	196,800	80	26	1,97	189,400	189,200	80	39	3,01
196,800	196,600	80	38	2,93	189,200	189,000	50	40	3,07
196,600	196,400	80	29	2,26	189,000	188,800	50	27	2,09
196,400	196,200	80	28	2,12	188,800	188,600	80	23	1,74
196,200	196,000	80	30	2,34	188,600	188,400	50	25	1,91
196,000	195,800	80	38	2,93	188,400	188,200	50	25	1,91
195,800	195,600	80	37	2,86	188,200	188,000	50	35	2,66
195,600	195,400	80	60	4,64	188,000	187,800	80	28	2,19
195,400	195,200	80	28	2,12	187,800	187,600	80	37	2,86
195,200	195,000	80	27	2,04	187,600	187,400	80	43	3,30
195,000	194,800	80	27	2,04	187,400	187,200	80	44	3,38
194,800	194,600	80	29	2,26	187,200	187,000	80	49	3,75
194,600	194,400	80	37	2,86	187,000	186,800	80	32	2,49
194,400	194,200	80	33	2,56	186,800	186,600	80	33	2,56
194,200	194,000	80	28	2,12	186,600	186,400	80	26	1,97
194,000	193,800	80	50	3,82	186,400	186,200	80	31	2,41
193,800	193,600	80	28	2,12	186,200	186,000	50	38	2,89
193,600	193,400	80	29	2,26	186,000	185,800	50	35	2,66
193,400	193,200	80	29	2,26	185,800	185,600	50	23	1,80
193,200	193,000	80	30	2,34	185,600	185,400	50	23	1,80
193,000	192,800	80	31	2,41	185,400	185,200	50	22	1,68
192,800	192,600	80	30	2,34	185,200	185,000	50	26	2,03

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
185,000	184,800	80	29	2,26	177,400	177,200	80	30	2,34
184,800	184,600	80	28	2,12	177,200	177,000	80	31	2,41
184,600	184,400	80	26	1,97	177,000	176,800	80	28	2,19
184,400	184,200	80	29	2,26	176,800	176,600	80	31	2,41
184,200	184,000	80	36	2,78	176,600	176,400	80	34	2,64
184,000	183,800	80	26	1,97	176,400	176,200	80	48	3,67
183,800	183,600	80	32	2,49	176,200	176,000	80	28	2,12
183,600	183,400	80	26	1,97	176,000	175,800	80	44	3,38
183,400	183,200	80	35	2,71	175,800	175,600	80	28	2,19
183,200	183,000	80	30	2,34	175,600	175,400	80	33	2,56
183,000	182,800	80	29	2,26	175,400	175,200	80	32	2,49
182,800	182,600	80	26	1,97	175,200	175,000	80	25	1,89
182,600	182,400	80	28	2,19	175,000	174,800	80	22	1,67
182,400	182,200	80	24	1,82	174,800	174,600	80	24	1,82
182,200	182,000	80	28	2,19	174,600	174,400	80	26	1,97
182,000	181,800	80	32	2,49	174,400	174,200	80	23	1,74
181,800	181,600	80	32	2,49	174,200	174,000	80	28	2,12
181,600	181,400	80	24	1,82	174,000	173,800	80	34	2,64
181,400	181,200	80	30	2,34	173,800	173,600	80	23	1,74
181,200	181,000	80	34	2,64	173,600	173,400	80	22	1,67
181,000	180,800	80	44	3,38	173,400	173,200	80	20	1,52
180,800	180,600	80	38	2,93	173,200	173,000	80	22	1,67
180,600	180,400	80	28	2,19	173,000	172,800	80	26	1,97
180,400	180,200	80	38	2,93	172,800	172,600	80	33	2,56
180,200	180,000	80	32	2,49	172,600	172,400	80	23	1,74
180,000	179,800	80	31	2,41	172,400	172,200	80	21	1,60
179,800	179,600	80	39	3,01	172,200	172,000	80	19	1,45
179,600	179,400	80	32	2,49	172,000	171,800	80	19	1,45
179,400	179,200	80	28	2,19	171,800	171,600	80	20	1,52
179,200	179,000	80	34	2,64	171,600	171,400	80	24	1,82
179,000	178,800	80	46	3,53	171,400	171,200	80	18	1,37
178,800	178,600	80	30	2,34	171,200	171,000	80	20	1,52
178,600	178,400	80	28	2,12	171,000	170,800	80	24	1,82
178,400	178,200	80	27	2,04	170,800	170,600	80	20	1,52
178,200	178,000	80	41	3,15	170,600	170,400	80	16	1,22
178,000	177,800	80	29	2,26	170,400	170,200	80	17	1,30
177,800	177,600	80	35	2,71	170,200	170,000	80	19	1,45
177,600	177,400	80	31	2,41	170,000	169,800	80	23	1,74

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
169,800	169,600	80	19	1,45	162,200	162,000	80	35	2,71
169,600	169,400	80	24	1,82	162,000	161,800	80	26	1,97
169,400	169,200	80	21	1,60	161,800	161,600	80	33	2,56
169,200	169,000	80	20	1,52	161,600	161,400	80	32	2,49
169,000	168,800	80	19	1,45	161,400	161,200	80	23	1,74
168,800	168,600	80	22	1,67	161,200	161,000	80	23	1,74
168,600	168,400	80	26	1,97	161,000	160,800	80	21	1,60
168,400	168,200	80	31	2,41	160,800	160,600	80	20	1,52
168,200	168,000	80	26	1,97	160,600	160,400	50	28	2,15
168,000	167,800	80	20	1,52	160,400	160,200	50	38	2,95
167,800	167,600	80	20	1,52	160,200	160,000	80	25	1,89
167,600	167,400	80	23	1,74	160,000	159,800	80	37	2,86
167,400	167,200	80	21	1,60	159,800	159,600	80	28	2,12
167,200	167,000	80	22	1,67	159,600	159,400	80	18	1,37
167,000	166,800	80	21	1,60	159,400	159,200	80	28	2,19
166,800	166,600	80	24	1,82	159,200	159,000	80	24	1,82
166,600	166,400	80	22	1,67	159,000	158,800	80	21	1,60
166,400	166,200	80	21	1,60	158,800	158,600	80	24	1,82
166,200	166,000	80	20	1,52	158,600	158,400	80	22	1,67
166,000	165,800	80	19	1,45	158,400	158,200	80	21	1,60
165,800	165,600	80	21	1,60	158,200	158,000	80	27	2,04
165,600	165,400	80	22	1,67	158,000	157,800	80	24	1,82
165,400	165,200	80	18	1,37	157,800	157,600	80	20	1,52
165,200	165,000	80	23	1,74	157,600	157,400	80	20	1,52
165,000	164,800	80	23	1,74	157,400	157,200	80	22	1,67
164,800	164,600	80	21	1,60	157,200	157,000	80	20	1,52
164,600	164,400	80	24	1,82	157,000	156,800	80	18	1,37
164,400	164,200	50	32	2,49	156,800	156,600	80	21	1,60
164,200	164,000	30	27	2,05	156,600	156,400	80	19	1,45
164,000	163,800	30	26	2,01	156,400	156,200	80	25	1,89
163,800	163,600	50	35	2,66	156,200	156,000	80	23	1,74
163,600	163,400	50	29	2,26	156,000	155,800	80	19	1,45
163,400	163,200	50	24	1,86	155,800	155,600	80	18	1,37
163,200	163,000	80	24	1,82	155,600	155,400	80	21	1,60
163,000	162,800	80	24	1,82	155,400	155,200	80	19	1,45
162,800	162,600	80	32	2,49	155,200	155,000	80	18	1,37
162,600	162,400	80	27	2,04	155,000	154,800	80	19	1,45
162,400	162,200	80	36	2,78	154,800	154,600	80	21	1,60

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
154,600	154,400	80	21	1,60	147,000	146,800	80	34	2,64
154,400	154,200	80	20	1,52	146,800	146,600	80	28	2,12
154,200	154,000	80	20	1,52	146,600	146,400	80	26	1,97
154,000	153,800	80	20	1,52	146,400	146,200	80	25	1,89
153,800	153,600	80	21	1,60	146,200	146,000	80	24	1,82
153,600	153,400	80	25	1,89	146,000	145,800	80	24	1,82
153,400	153,200	80	18	1,37	145,800	145,600	80	25	1,89
153,200	153,000	80	19	1,45	145,600	145,400	80	26	1,97
153,000	152,800	80	20	1,52	145,400	145,200	50	28	2,15
152,800	152,600	80	19	1,45	145,200	145,000	30	22	1,72
152,600	152,400	80	20	1,52	145,000	144,800	50	20	1,57
152,400	152,200	80	18	1,37	144,800	144,600	50	20	1,51
152,200	152,000	80	21	1,60	144,600	144,400	80	23	1,74
152,000	151,800	80	22	1,67	144,400	144,200	80	22	1,67
151,800	151,600	80	21	1,60	144,200	144,000	50	26	2,03
151,600	151,400	80	27	2,04	144,000	143,800	50	26	1,97
151,400	151,200	80	29	2,26	143,800	143,600	30	38	2,90
151,200	151,000	80	29	2,26	143,600	143,400	30	41	3,19
151,000	150,800	80	22	1,67	143,400	143,200	30	40	3,05
150,800	150,600	80	26	1,97	143,200	143,000	30	52	3,99
150,600	150,400	80	25	1,89	143,000	142,800	50	49	3,76
150,400	150,200	80	24	1,82	142,800	142,600	50	29	2,20
150,200	150,000	80	20	1,52	142,600	142,400	50	29	2,20
150,000	149,800	80	22	1,67	142,400	142,200	80	21	1,60
149,800	149,600	80	17	1,30	142,200	142,000	80	20	1,52
149,600	149,400	80	22	1,67	142,000	141,800	80	22	1,67
149,400	149,200	80	18	1,37	141,800	141,600	80	23	1,74
149,200	149,000	80	18	1,37	141,600	141,400	80	26	1,97
149,000	148,800	80	19	1,45	141,400	141,200	80	27	2,04
148,800	148,600	80	23	1,74	141,200	141,000	80	29	2,26
148,600	148,400	80	20	1,52	141,000	140,800	80	28	2,19
148,400	148,200	80	19	1,45	140,800	140,600	80	25	1,89
148,200	148,000	80	28	2,12	140,600	140,400	80	22	1,67
148,000	147,800	80	29	2,26	140,400	140,200	80	26	1,97
147,800	147,600	80	27	2,04	140,200	140,000	80	26	1,97
147,600	147,400	80	32	2,49	140,000	139,800	80	27	2,04
147,400	147,200	80	28	2,12	139,800	139,600	80	26	1,97
147,200	147,000	80	27	2,04	139,600	139,400	80	23	1,74

IRREGULARIDADE LONGITUDINAL - QI										
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007		
INÍCIO km 773,400					FINAL km 0,000					
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI		Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
139,400	139,200	80	21	1,60		131,800	131,600	80	30	2,34
139,200	139,000	80	20	1,52		131,600	131,400	80	29	2,26
139,000	138,800	80	20	1,52		131,400	131,200	80	39	3,01
138,800	138,600	80	28	2,19		131,200	131,000	80	32	2,49
138,600	138,400	80	28	2,19		131,000	130,800	80	34	2,64
138,400	138,200	80	34	2,64		130,800	130,600	80	36	2,78
138,200	138,000	80	32	2,49		130,600	130,400	80	27	2,04
138,000	137,800	80	30	2,34		130,400	130,200	80	31	2,41
137,800	137,600	80	29	2,26		130,200	130,000	80	34	2,64
137,600	137,400	80	27	2,04		130,000	129,800	80	30	2,34
137,400	137,200	80	23	1,74		129,800	129,600	80	24	1,82
137,200	137,000	80	30	2,34		129,600	129,400	80	24	1,82
137,000	136,800	80	25	1,89		129,400	129,200	80	22	1,67
136,800	136,600	80	29	2,26		129,200	129,000	80	29	2,26
136,600	136,400	80	44	3,38		129,000	128,800	80	25	1,89
136,400	136,200	80	45	3,45		128,800	128,600	80	30	2,34
136,200	136,000	80	35	2,71		128,600	128,400	80	35	2,71
136,000	135,800	80	31	2,41		128,400	128,200	80	21	1,60
135,800	135,600	80	33	2,56		128,200	128,000	80	30	2,34
135,600	135,400	80	31	2,41		128,000	127,800	80	34	2,64
135,400	135,200	80	27	2,04		127,800	127,600	80	35	2,71
135,200	135,000	80	23	1,74		127,600	127,400	30	29	2,24
135,000	134,800	80	41	3,15		127,400	127,200	50	48	3,70
134,800	134,600	80	32	2,49		127,200	127,000	50	59	4,57
134,600	134,400	80	41	3,15		127,000	126,800	30	32	2,43
134,400	134,200	80	54	4,12		126,800	126,600	50	30	2,32
134,200	134,000	80	51	3,90		126,600	126,400	50	35	2,66
134,000	133,800	80	48	3,67		126,400	126,200	80	36	2,78
133,800	133,600	80	40	3,08		126,200	126,000	80	27	2,04
133,600	133,400	80	35	2,71		126,000	125,800	80	27	2,04
133,400	133,200	80	27	2,04		125,800	125,600	80	24	1,82
133,200	133,000	80	29	2,26		125,600	125,400	80	21	1,60
133,000	132,800	80	32	2,49		125,400	125,200	80	24	1,82
132,800	132,600	80	35	2,71		125,200	125,000	80	18	1,37
132,600	132,400	80	28	2,19		125,000	124,800	80	19	1,45
132,400	132,200	80	25	1,89		124,800	124,600	80	25	1,89
132,200	132,000	80	31	2,41		124,600	124,400	80	23	1,74
132,000	131,800	80	28	2,12		124,400	124,200	80	21	1,60

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
124,200	124,000	80	27	2,04	116,600	116,400	80	25	1,89
124,000	123,800	80	30	2,34	116,400	116,200	80	24	1,82
123,800	123,600	80	29	2,26	116,200	116,000	80	22	1,67
123,600	123,400	80	39	3,01	116,000	115,800	80	23	1,74
123,400	123,200	80	34	2,64	115,800	115,600	80	26	1,97
123,200	123,000	80	38	2,93	115,600	115,400	80	28	2,19
123,000	122,800	80	30	2,34	115,400	115,200	80	41	3,15
122,800	122,600	80	34	2,64	115,200	115,000	80	43	3,30
122,600	122,400	80	48	3,67	115,000	114,800	80	45	3,45
122,400	122,200	80	47	3,60	114,800	114,600	80	43	3,30
122,200	122,000	80	41	3,15	114,600	114,400	80	28	2,12
122,000	121,800	80	41	3,15	114,400	114,200	80	27	2,04
121,800	121,600	80	42	3,23	114,200	114,000	80	30	2,34
121,600	121,400	80	50	3,82	114,000	113,800	80	28	2,12
121,400	121,200	80	55	4,19	113,800	113,600	80	27	2,04
121,200	121,000	80	47	3,60	113,600	113,400	80	22	1,67
121,000	120,800	80	41	3,15	113,400	113,200	80	36	2,78
120,800	120,600	80	49	3,75	113,200	113,000	80	28	2,19
120,600	120,400	80	57	4,42	113,000	112,800	80	23	1,74
120,400	120,200	80	55	4,19	112,800	112,600	80	25	1,89
120,200	120,000	80	56	4,34	112,600	112,400	80	22	1,67
120,000	119,800	80	55	4,19	112,400	112,200	80	26	1,97
119,800	119,600	80	55	4,19	112,200	112,000	80	24	1,82
119,600	119,400	80	61	4,71	112,000	111,800	80	18	1,37
119,400	119,200	80	52	3,97	111,800	111,600	80	19	1,45
119,200	119,000	80	61	4,71	111,600	111,400	80	18	1,37
119,000	118,800	80	48	3,67	111,400	111,200	80	20	1,52
118,800	118,600	80	61	4,71	111,200	111,000	80	29	2,26
118,600	118,400	80	57	4,42	111,000	110,800	80	27	2,04
118,400	118,200	80	43	3,30	110,800	110,600	80	25	1,89
118,200	118,000	50	43	3,30	110,600	110,400	80	21	1,60
118,000	117,800	80	38	2,93	110,400	110,200	80	34	2,64
117,800	117,600	80	39	3,01	110,200	110,000	80	23	1,74
117,600	117,400	80	28	2,19	110,000	109,800	80	23	1,74
117,400	117,200	80	28	2,12	109,800	109,600	80	28	2,19
117,200	117,000	80	27	2,04	109,600	109,400	80	26	1,97
117,000	116,800	80	38	2,93	109,400	109,200	80	28	2,19
116,800	116,600	80	33	2,56	109,200	109,000	80	30	2,34

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
109,000	108,800	80	29	2,26	101,400	101,200	80	45	3,45
108,800	108,600	80	20	1,52	101,200	101,000	80	46	3,53
108,600	108,400	80	22	1,67	101,000	100,800	80	46	3,53
108,400	108,200	80	20	1,52	100,800	100,600	80	45	3,45
108,200	108,000	80	30	2,34	100,600	100,400	80	47	3,60
108,000	107,800	80	26	1,97	100,400	100,200	80	38	2,93
107,800	107,600	80	32	2,49	100,200	100,000	80	34	2,64
107,600	107,400	80	32	2,49	100,000	99,800	80	38	2,93
107,400	107,200	80	26	1,97	99,800	99,600	80	43	3,30
107,200	107,000	80	45	3,45	99,600	99,400	80	50	3,82
107,000	106,800	80	66	5,08	99,400	99,200	80	39	3,01
106,800	106,600	80	48	3,67	99,200	99,000	80	44	3,38
106,600	106,400	80	46	3,53	99,000	98,800	80	37	2,86
106,400	106,200	80	39	3,01	98,800	98,600	80	36	2,78
106,200	106,000	80	45	3,45	98,600	98,400	80	29	2,26
106,000	105,800	80	38	2,93	98,400	98,200	80	26	1,97
105,800	105,600	80	40	3,08	98,200	98,000	80	34	2,64
105,600	105,400	80	35	2,71	98,000	97,800	80	32	2,49
105,400	105,200	80	27	2,04	97,800	97,600	80	28	2,12
105,200	105,000	80	30	2,34	97,600	97,400	80	44	3,38
105,000	104,800	80	34	2,64	97,400	97,200	80	38	2,93
104,800	104,600	80	30	2,34	97,200	97,000	80	36	2,78
104,600	104,400	80	30	2,34	97,000	96,800	80	36	2,78
104,400	104,200	80	31	2,41	96,800	96,600	80	28	2,19
104,200	104,000	80	33	2,56	96,600	96,400	80	30	2,34
104,000	103,800	80	35	2,71	96,400	96,200	80	32	2,49
103,800	103,600	80	29	2,26	96,200	96,000	80	35	2,71
103,600	103,400	80	23	1,74	96,000	95,800	80	34	2,64
103,400	103,200	80	32	2,49	95,800	95,600	80	28	2,19
103,200	103,000	80	34	2,64	95,600	95,400	80	32	2,49
103,000	102,800	80	49	3,75	95,400	95,200	80	30	2,34
102,800	102,600	80	40	3,08	95,200	95,000	80	35	2,71
102,600	102,400	80	40	3,08	95,000	94,800	80	33	2,56
102,400	102,200	80	46	3,53	94,800	94,600	80	37	2,86
102,200	102,000	80	37	2,86	94,600	94,400	80	34	2,64
102,000	101,800	80	35	2,71	94,400	94,200	80	40	3,08
101,800	101,600	80	30	2,34	94,200	94,000	80	33	2,56
101,600	101,400	80	36	2,78	94,000	93,800	80	42	3,23

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
93,800	93,600	80	33	2,56	86,200	86,000	80	33	2,56
93,600	93,400	80	42	3,23	86,000	85,800	80	40	3,08
93,400	93,200	80	31	2,41	85,800	85,600	80	36	2,78
93,200	93,000	80	32	2,49	85,600	85,400	80	32	2,49
93,000	92,800	80	29	2,26	85,400	85,200	80	35	2,71
92,800	92,600	80	33	2,56	85,200	85,000	80	35	2,71
92,600	92,400	80	33	2,56	85,000	84,800	80	40	3,08
92,400	92,200	80	29	2,26	84,800	84,600	80	40	3,08
92,200	92,000	80	31	2,41	84,600	84,400	80	30	2,34
92,000	91,800	80	34	2,64	84,400	84,200	80	37	2,86
91,800	91,600	80	31	2,41	84,200	84,000	80	37	2,86
91,600	91,400	80	38	2,93	84,000	83,800	80	33	2,56
91,400	91,200	80	45	3,45	83,800	83,600	80	42	3,23
91,200	91,000	80	36	2,78	83,600	83,400	80	38	2,93
91,000	90,800	80	46	3,53	83,400	83,200	80	29	2,26
90,800	90,600	80	53	4,05	83,200	83,000	80	51	3,90
90,600	90,400	80	51	3,90	83,000	82,800	80	36	2,78
90,400	90,200	80	41	3,15	82,800	82,600	80	35	2,71
90,200	90,000	80	47	3,60	82,600	82,400	80	32	2,49
90,000	89,800	80	36	2,78	82,400	82,200	80	30	2,34
89,800	89,600	80	50	3,82	82,200	82,000	80	32	2,49
89,600	89,400	80	46	3,53	82,000	81,800	80	37	2,86
89,400	89,200	80	39	3,01	81,800	81,600	80	41	3,15
89,200	89,000	80	42	3,23	81,600	81,400	80	25	1,89
89,000	88,800	80	27	2,04	81,400	81,200	80	19	1,45
88,800	88,600	80	21	1,60	81,200	81,000	80	17	1,30
88,600	88,400	80	23	1,74	81,000	80,800	80	19	1,45
88,400	88,200	80	28	2,12	80,800	80,600	80	24	1,82
88,200	88,000	80	27	2,04	80,600	80,400	80	22	1,67
88,000	87,800	80	22	1,67	80,400	80,200	80	22	1,67
87,800	87,600	80	23	1,74	80,200	80,000	80	21	1,60
87,600	87,400	80	28	2,12	80,000	79,800	80	27	2,04
87,400	87,200	80	23	1,74	79,800	79,600	80	21	1,60
87,200	87,000	80	24	1,82	79,600	79,400	80	25	1,89
87,000	86,800	80	26	1,97	79,400	79,200	80	22	1,67
86,800	86,600	80	27	2,04	79,200	79,000	80	22	1,67
86,600	86,400	80	39	3,01	79,000	78,800	80	24	1,82
86,400	86,200	80	30	2,34	78,800	78,600	80	22	1,67

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
78,600	78,400	80	19	1,45	71,000	70,800	80	26	1,97
78,400	78,200	80	18	1,37	70,800	70,600	80	27	2,04
78,200	78,000	80	28	2,19	70,600	70,400	80	24	1,82
78,000	77,800	80	36	2,78	70,400	70,200	80	23	1,74
77,800	77,600	80	37	2,86	70,200	70,000	80	25	1,89
77,600	77,400	80	36	2,78	70,000	69,800	80	28	2,19
77,400	77,200	80	49	3,75	69,800	69,600	80	35	2,71
77,200	77,000	80	48	3,67	69,600	69,400	80	27	2,04
77,000	76,800	80	47	3,60	69,400	69,200	80	24	1,82
76,800	76,600	80	34	2,64	69,200	69,000	80	20	1,52
76,600	76,400	80	27	2,04	69,000	68,800	80	19	1,45
76,400	76,200	80	24	1,82	68,800	68,600	80	22	1,67
76,200	76,000	80	25	1,89	68,600	68,400	80	21	1,60
76,000	75,800	80	28	2,19	68,400	68,200	80	24	1,82
75,800	75,600	80	29	2,26	68,200	68,000	80	20	1,52
75,600	75,400	80	30	2,34	68,000	67,800	80	21	1,60
75,400	75,200	80	28	2,19	67,800	67,600	80	21	1,60
75,200	75,000	80	25	1,89	67,600	67,400	80	20	1,52
75,000	74,800	80	27	2,04	67,400	67,200	80	20	1,52
74,800	74,600	80	28	2,19	67,200	67,000	80	17	1,30
74,600	74,400	80	24	1,82	67,000	66,800	80	20	1,52
74,400	74,200	80	27	2,04	66,800	66,600	80	22	1,67
74,200	74,000	80	26	1,97	66,600	66,400	80	21	1,60
74,000	73,800	80	23	1,74	66,400	66,200	80	21	1,60
73,800	73,600	80	25	1,89	66,200	66,000	80	17	1,30
73,600	73,400	80	25	1,89	66,000	65,800	80	20	1,52
73,400	73,200	80	24	1,82	65,800	65,600	80	21	1,60
73,200	73,000	80	23	1,74	65,600	65,400	80	22	1,67
73,000	72,800	80	23	1,74	65,400	65,200	80	21	1,60
72,800	72,600	80	22	1,67	65,200	65,000	80	27	2,04
72,600	72,400	80	26	1,97	65,000	64,800	80	21	1,60
72,400	72,200	80	21	1,60	64,800	64,600	80	18	1,37
72,200	72,000	80	22	1,67	64,600	64,400	80	18	1,37
72,000	71,800	80	30	2,34	64,400	64,200	80	19	1,45
71,800	71,600	80	28	2,19	64,200	64,000	80	19	1,45
71,600	71,400	80	27	2,04	64,000	63,800	80	23	1,74
71,400	71,200	80	26	1,97	63,800	63,600	80	22	1,67
71,200	71,000	80	28	2,12	63,600	63,400	80	22	1,67

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
63,400	63,200	80	24	1,82	55,800	55,600	80	24	1,82
63,200	63,000	80	29	2,26	55,600	55,400	80	24	1,82
63,000	62,800	80	21	1,60	55,400	55,200	80	21	1,60
62,800	62,600	80	19	1,45	55,200	55,000	80	21	1,60
62,600	62,400	80	20	1,52	55,000	54,800	80	21	1,60
62,400	62,200	80	17	1,30	54,800	54,600	80	27	2,04
62,200	62,000	80	22	1,67	54,600	54,400	80	29	2,26
62,000	61,800	80	34	2,64	54,400	54,200	80	25	1,89
61,800	61,600	80	57	4,42	54,200	54,000	80	23	1,74
61,600	61,400	80	22	1,67	54,000	53,800	80	32	2,49
61,400	61,200	80	34	2,64	53,800	53,600	80	23	1,74
61,200	61,000	80	27	2,04	53,600	53,400	50	24	1,86
61,000	60,800	80	20	1,52	53,400	53,200	50	21	1,63
60,800	60,600	80	26	1,97	53,200	53,000	50	24	1,86
60,600	60,400	80	31	2,41	53,000	52,800	50	23	1,80
60,400	60,200	80	25	1,89	52,800	52,600	80	22	1,67
60,200	60,000	80	28	2,12	52,600	52,400	80	26	1,97
60,000	59,800	80	38	2,93	52,400	52,200	80	19	1,45
59,800	59,600	80	42	3,23	52,200	52,000	80	21	1,60
59,600	59,400	80	38	2,93	52,000	51,800	80	16	1,22
59,400	59,200	80	39	3,01	51,800	51,600	80	21	1,60
59,200	59,000	80	22	1,67	51,600	51,400	80	19	1,45
59,000	58,800	80	20	1,52	51,400	51,200	80	23	1,74
58,800	58,600	80	22	1,67	51,200	51,000	80	18	1,37
58,600	58,400	80	34	2,64	51,000	50,800	80	26	1,97
58,400	58,200	80	23	1,74	50,800	50,600	80	18	1,37
58,200	58,000	80	23	1,74	50,600	50,400	80	21	1,60
58,000	57,800	80	26	1,97	50,400	50,200	80	20	1,52
57,800	57,600	80	21	1,60	50,200	50,000	80	18	1,37
57,600	57,400	80	23	1,74	50,000	49,800	80	19	1,45
57,400	57,200	80	18	1,37	49,800	49,600	80	21	1,60
57,200	57,000	80	21	1,60	49,600	49,400	80	25	1,89
57,000	56,800	80	23	1,74	49,400	49,200	80	19	1,45
56,800	56,600	80	22	1,67	49,200	49,000	80	22	1,67
56,600	56,400	80	29	2,26	49,000	48,800	80	22	1,67
56,400	56,200	80	24	1,82	48,800	48,600	80	22	1,67
56,200	56,000	80	20	1,52	48,600	48,400	80	21	1,60
56,000	55,800	80	23	1,74	48,400	48,200	80	20	1,52

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INÍCIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
48,200	48,000	50	25	1,91	40,600	40,400	50	33	2,55
48,000	47,800	50	21	1,63	40,400	40,200	50	21	1,63
47,800	47,600	50	20	1,57	40,200	40,000	50	23	1,74
47,600	47,400	80	20	1,52	40,000	39,800	80	20	1,52
47,400	47,200	80	19	1,45	39,800	39,600	80	17	1,30
47,200	47,000	80	23	1,74	39,600	39,400	80	19	1,45
47,000	46,800	80	22	1,67	39,400	39,200	80	20	1,52
46,800	46,600	80	23	1,74	39,200	39,000	80	19	1,45
46,600	46,400	80	19	1,45	39,000	38,800	80	22	1,67
46,400	46,200	80	19	1,45	38,800	38,600	80	25	1,89
46,200	46,000	80	19	1,45	38,600	38,400	80	21	1,60
46,000	45,800	80	23	1,74	38,400	38,200	80	19	1,45
45,800	45,600	80	17	1,30	38,200	38,000	80	28	2,12
45,600	45,400	80	17	1,30	38,000	37,800	80	22	1,67
45,400	45,200	80	17	1,30	37,800	37,600	80	27	2,04
45,200	45,000	80	16	1,22	37,600	37,400	80	29	2,26
45,000	44,800	50	23	1,74	37,400	37,200	80	30	2,34
44,800	44,600	50	23	1,74	37,200	37,000	80	19	1,45
44,600	44,400	50	29	2,20	37,000	36,800	80	25	1,89
44,400	44,200	30	32	2,48	36,800	36,600	80	24	1,82
44,200	44,000	50	29	2,20	36,600	36,400	80	23	1,74
44,000	43,800	50	24	1,86	36,400	36,200	80	35	2,71
43,800	43,600	50	24	1,86	36,200	36,000	80	38	2,93
43,600	43,400	30	41	3,19	36,000	35,800	80	29	2,26
43,400	43,200	50	29	2,26	35,800	35,600	80	28	2,12
43,200	43,000	50	25	1,91	35,600	35,400	80	21	1,60
43,000	42,800	50	35	2,72	35,400	35,200	80	22	1,67
42,800	42,600	50	27	2,09	35,200	35,000	80	20	1,52
42,600	42,400	50	24	1,86	35,000	34,800	80	25	1,89
42,400	42,200	50	27	2,09	34,800	34,600	80	24	1,82
42,200	42,000	50	40	3,07	34,600	34,400	80	22	1,67
42,000	41,800	50	32	2,43	34,400	34,200	80	25	1,89
41,800	41,600	50	29	2,26	34,200	34,000	80	24	1,82
41,600	41,400	50	28	2,15	34,000	33,800	80	23	1,74
41,400	41,200	30	34	2,62	33,800	33,600	80	24	1,82
41,200	41,000	30	33	2,53	33,600	33,400	80	23	1,74
41,000	40,800	30	35	2,67	33,400	33,200	80	19	1,45
40,800	40,600	30	33	2,57	33,200	33,000	80	20	1,52

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
33,000	32,800	80	22	1,67	25,400	25,200	80	32	2,49
32,800	32,600	80	22	1,67	25,200	25,000	80	36	2,78
32,600	32,400	80	22	1,67	25,000	24,800	80	39	3,01
32,400	32,200	80	22	1,67	24,800	24,600	80	41	3,15
32,200	32,000	80	19	1,45	24,600	24,400	80	37	2,86
32,000	31,800	80	20	1,52	24,400	24,200	80	41	3,15
31,800	31,600	80	22	1,67	24,200	24,000	80	32	2,49
31,600	31,400	80	19	1,45	24,000	23,800	80	36	2,78
31,400	31,200	80	18	1,37	23,800	23,600	80	28	2,12
31,200	31,000	80	22	1,67	23,600	23,400	80	36	2,78
31,000	30,800	80	22	1,67	23,400	23,200	80	27	2,04
30,800	30,600	80	22	1,67	23,200	23,000	80	31	2,41
30,600	30,400	80	24	1,82	23,000	22,800	80	29	2,26
30,400	30,200	80	24	1,82	22,800	22,600	80	28	2,19
30,200	30,000	80	28	2,19	22,600	22,400	80	29	2,26
30,000	29,800	80	21	1,60	22,400	22,200	80	31	2,41
29,800	29,600	80	25	1,89	22,200	22,000	80	28	2,12
29,600	29,400	80	22	1,67	22,000	21,800	80	29	2,26
29,400	29,200	80	26	1,97	21,800	21,600	80	28	2,19
29,200	29,000	80	32	2,49	21,600	21,400	80	30	2,34
29,000	28,800	80	27	2,04	21,400	21,200	80	32	2,49
28,800	28,600	80	25	1,89	21,200	21,000	80	30	2,34
28,600	28,400	80	25	1,89	21,000	20,800	80	28	2,19
28,400	28,200	80	25	1,89	20,800	20,600	80	29	2,26
28,200	28,000	80	26	1,97	20,600	20,400	80	30	2,34
28,000	27,800	80	32	2,49	20,400	20,200	80	28	2,19
27,800	27,600	80	31	2,41	20,200	20,000	80	29	2,26
27,600	27,400	80	25	1,89	20,000	19,800	80	31	2,41
27,400	27,200	80	26	1,97	19,800	19,600	80	33	2,56
27,200	27,000	80	25	1,89	19,600	19,400	80	32	2,49
27,000	26,800	80	23	1,74	19,400	19,200	80	28	2,12
26,800	26,600	80	22	1,67	19,200	19,000	80	24	1,82
26,600	26,400	80	33	2,56	19,000	18,800	80	23	1,74
26,400	26,200	80	39	3,01	18,800	18,600	80	28	2,19
26,200	26,000	80	39	3,01	18,600	18,400	80	31	2,41
26,000	25,800	80	32	2,49	18,400	18,200	80	23	1,74
25,800	25,600	80	30	2,34	18,200	18,000	80	24	1,82
25,600	25,400	80	32	2,49	18,000	17,800	80	25	1,89

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 1			DATA jan/2007	
INICIO km 773,400					FINAL km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
17,800	17,600	80	29	2,26	10,200	10,000	80	25	1,89
17,600	17,400	80	26	1,97	10,000	9,800	80	26	1,97
17,400	17,200	80	33	2,56	9,800	9,600	80	24	1,82
17,200	17,000	80	26	1,97	9,600	9,400	80	24	1,82
17,000	16,800	80	25	1,89	9,400	9,200	80	22	1,67
16,800	16,600	80	30	2,34	9,200	9,000	80	24	1,82
16,600	16,400	80	27	2,04	9,000	8,800	80	22	1,67
16,400	16,200	80	24	1,82	8,800	8,600	80	25	1,89
16,200	16,000	80	26	1,97	8,600	8,400	80	22	1,67
16,000	15,800	80	26	1,97	8,400	8,200	80	23	1,74
15,800	15,600	80	26	1,97	8,200	8,000	80	23	1,74
15,600	15,400	80	28	2,19	8,000	7,800	80	27	2,04
15,400	15,200	80	28	2,19	7,800	7,600	80	29	2,26
15,200	15,000	80	24	1,82	7,600	7,400	80	18	1,37
15,000	14,800	80	25	1,89	7,400	7,200	80	23	1,74
14,800	14,600	80	23	1,74	7,200	7,000	80	24	1,82
14,600	14,400	80	25	1,89	7,000	6,800	80	25	1,89
14,400	14,200	80	24	1,82	6,800	6,600	80	25	1,89
14,200	14,000	80	25	1,89	6,600	6,400	80	24	1,82
14,000	13,800	80	26	1,97	6,400	6,200	80	25	1,89
13,800	13,600	80	27	2,04	6,200	6,000	80	23	1,74
13,600	13,400	80	30	2,34	6,000	5,800	80	25	1,89
13,400	13,200	80	22	1,67	5,800	5,600	80	24	1,82
13,200	13,000	80	20	1,52	5,600	5,400	80	18	1,37
13,000	12,800	80	23	1,74	5,400	5,200	80	23	1,74
12,800	12,600	80	28	2,12	5,200	5,000	80	28	2,19
12,600	12,400	80	30	2,34	5,000	4,800	80	23	1,74
12,400	12,200	80	23	1,74	4,800	4,600	80	24	1,82
12,200	12,000	80	25	1,89	4,600	4,400	80	32	2,49
12,000	11,800	80	23	1,74	4,400	4,200	80	28	2,12
11,800	11,600	80	21	1,60	4,200	4,000	80	28	2,12
11,600	11,400	80	25	1,89	4,000	3,800	80	28	2,19
11,400	11,200	80	19	1,45	3,800	3,600	80	31	2,41
11,200	11,000	80	22	1,67	3,600	3,400	80	31	2,41
11,000	10,800	80	22	1,67	3,400	3,200	80	32	2,49
10,800	10,600	80	22	1,67	3,200	3,000	80	30	2,34
10,600	10,400	80	20	1,52	3,000	2,800	80	24	1,82
10,400	10,200	80	26	1,97	2,800	2,600	80	25	1,89

[illegible]

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 1			jan/2007	
INÍCIO					FINAL				
km 773,400					km 0,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
			1912					1900	
			643					647	
			1269	643				1253	647
				749					706
			520	520				547	547
				1912					1900

QI < 25	1290
25 < QI < 35	1455
QI ≥ 35	1067
total	3812
Média	31
Max	97
Min	12
desvpad	11

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 2			jan/2007	
INICIO					FINAL				
km 770,200					km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
770,200	770,000	50	28	2,15	762,600	762,400	80	52	3,97
770,000	769,800	80	32	2,49	762,400	762,200	80	45	3,45
769,800	769,600	80	32	2,49	762,200	762,000	80	54	4,12
769,600	769,400	80	47	3,60	762,000	761,800	80	47	3,60
769,400	769,200	80	50	3,82	761,800	761,600	80	57	4,42
769,200	769,000	80	47	3,60	761,600	761,400	80	63	4,86
769,000	768,800	80	38	2,93	761,400	761,200	80	50	3,82
768,800	768,600	80	41	3,15	761,200	761,000	80	55	4,27
768,600	768,400	80	46	3,53	761,000	760,800	80	68	5,23
768,400	768,200	80	46	3,53	760,800	760,600	80	42	3,23
768,200	768,000	80	51	3,90	760,600	760,400	80	40	3,08
768,000	767,800	80	53	4,05	760,400	760,200	80	45	3,45
767,800	767,600	80	32	2,49	760,200	760,000	80	39	3,01
767,600	767,400	80	39	3,01	760,000	759,800	80	49	3,75
767,400	767,200	80	45	3,45	759,800	759,600	80	42	3,23
767,200	767,000	80	47	3,60	759,600	759,400	80	52	3,97
767,000	766,800	80	39	3,01	759,400	759,200	80	50	3,82
766,800	766,600	80	39	3,01	759,200	759,000	80	46	3,53
766,600	766,400	80	37	2,86	759,000	758,800	80	36	2,78
766,400	766,200	80	34	2,64	758,800	758,600	80	39	3,01
766,200	766,000	80	38	2,93	758,600	758,400	80	45	3,45
766,000	765,800	80	48	3,67	758,400	758,200	80	35	2,71
765,800	765,600	80	47	3,60	758,200	758,000	80	43	3,30
765,600	765,400	80	51	3,90	758,000	757,800	80	28	2,19
765,400	765,200	80	47	3,60	757,800	757,600	80	30	2,34
765,200	765,000	80	36	2,78	757,600	757,400	80	29	2,26
765,000	764,800	80	35	2,71	757,400	757,200	80	33	2,56
764,800	764,600	80	35	2,71	757,200	757,000	80	36	2,78
764,600	764,400	30	53	4,09	757,000	756,800	80	26	1,97
764,400	764,200	30	63	4,84	756,800	756,600	80	26	1,97
764,200	764,000	50	34	2,61	756,600	756,400	80	23	1,74
764,000	763,800	80	39	3,01	756,400	756,200	80	21	1,60
763,800	763,600	80	30	2,34	756,200	756,000	80	28	2,12
763,600	763,400	80	27	2,04	756,000	755,800	80	28	2,19
763,400	763,200	80	28	2,12	755,800	755,600	50	32	2,49
763,200	763,000	80	35	2,71	755,600	755,400	50	27	2,09
763,000	762,800	80	31	2,41	755,400	755,200	50	26	1,97
762,800	762,600	80	39	3,01	755,200	755,000	50	23	1,74

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 2			jan/2007	
INÍCIO					FINAL				
km 770,200					km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
755,000	754,800	50	26	1,97	747,400	747,200	50	24	1,86
754,800	754,600	50	22	1,68	747,200	747,000	50	40	3,07
754,600	754,400	50	26	1,97	747,000	746,800	50	30	2,32
754,400	754,200	50	35	2,66	746,800	746,600	50	29	2,26
754,200	754,000	50	49	3,76	746,600	746,400	50	26	2,03
754,000	753,800	80	46	3,53	746,400	746,200	50	30	2,32
753,800	753,600	80	36	2,78	746,200	746,000	50	31	2,38
753,600	753,400	80	31	2,41	746,000	745,800	50	35	2,66
753,400	753,200	80	37	2,86	745,800	745,600	50	44	3,41
753,200	753,000	80	46	3,53	745,600	745,400	50	26	2,03
753,000	752,800	80	44	3,38	745,400	745,200	50	41	3,18
752,800	752,600	80	41	3,15	745,200	745,000	50	35	2,66
752,600	752,400	80	53	4,05	745,000	744,800	50	25	1,91
752,400	752,200	80	53	4,05	744,800	744,600	50	35	2,66
752,200	752,000	80	43	3,30	744,600	744,400	50	35	2,66
752,000	751,800	80	64	4,94	744,400	744,200	50	32	2,49
751,800	751,600	80	28	2,12	744,200	744,000	50	29	2,26
751,600	751,400	80	37	2,86	744,000	743,800	50	26	1,97
751,400	751,200	80	26	1,97	743,800	743,600	50	24	1,86
751,200	751,000	80	31	2,41	743,600	743,400	50	31	2,38
751,000	750,800	80	44	3,38	743,400	743,200	50	46	3,53
750,800	750,600	80	45	3,45	743,200	743,000	50	44	3,41
750,600	750,400	80	42	3,23	743,000	742,800	80	37	2,86
750,400	750,200	80	19	1,45	742,800	742,600	80	45	3,45
750,200	750,000	80	23	1,74	742,600	742,400	80	28	2,12
750,000	749,800	80	41	3,15	742,400	742,200	80	38	2,93
749,800	749,600	80	43	3,30	742,200	742,000	80	46	3,53
749,600	749,400	80	32	2,49	742,000	741,800	80	42	3,23
749,400	749,200	80	39	3,01	741,800	741,600	50	35	2,66
749,200	749,000	80	40	3,08	741,600	741,400	50	25	1,91
749,000	748,800	80	42	3,23	741,400	741,200	50	47	3,64
748,800	748,600	80	49	3,75	741,200	741,000	50	51	3,93
748,600	748,400	80	60	4,64	741,000	740,800	50	38	2,89
748,400	748,200	80	28	2,19	740,800	740,600	50	26	2,03
748,200	748,000	80	32	2,49	740,600	740,400	50	37	2,84
748,000	747,800	50	30	2,32	740,400	740,200	50	42	3,24
747,800	747,600	50	37	2,84	740,200	740,000	50	30	2,32
747,600	747,400	50	30	2,32	740,000	739,800	80	37	2,86

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
739,800	739,600	80	25	1,89	732,200	732,000	80	27	2,04
739,600	739,400	80	26	1,97	732,000	731,800	80	27	2,04
739,400	739,200	80	33	2,56	731,800	731,600	80	24	1,82
739,200	739,000	50	35	2,66	731,600	731,400	80	29	2,26
739,000	738,800	50	32	2,43	731,400	731,200	80	27	2,04
738,800	738,600	50	23	1,80	731,200	731,000	80	26	1,97
738,600	738,400	50	24	1,86	731,000	730,800	80	28	2,12
738,400	738,200	50	30	2,32	730,800	730,600	80	33	2,56
738,200	738,000	50	28	2,15	730,600	730,400	80	38	2,93
738,000	737,800	50	25	1,91	730,400	730,200	80	32	2,49
737,800	737,600	50	24	1,86	730,200	730,000	80	31	2,41
737,600	737,400	50	23	1,80	730,000	729,800	80	31	2,41
737,400	737,200	80	20	1,52	729,800	729,600	80	38	2,93
737,200	737,000	80	24	1,82	729,600	729,400	80	29	2,26
737,000	736,800	80	26	1,97	729,400	729,200	80	34	2,64
736,800	736,600	80	25	1,89	729,200	729,000	80	32	2,49
736,600	736,400	80	25	1,89	729,000	728,800	80	32	2,49
736,400	736,200	80	26	1,97	728,800	728,600	80	37	2,86
736,200	736,000	80	20	1,52	728,600	728,400	80	34	2,64
736,000	735,800	80	26	1,97	728,400	728,200	80	30	2,34
735,800	735,600	80	30	2,34	728,200	728,000	50	29	2,26
735,600	735,400	80	35	2,71	728,000	727,800	50	26	1,97
735,400	735,200	80	23	1,74	727,800	727,600	80	29	2,26
735,200	735,000	80	22	1,67	727,600	727,400	80	24	1,82
735,000	734,800	80	21	1,60	727,400	727,200	80	23	1,74
734,800	734,600	80	21	1,60	727,200	727,000	80	25	1,89
734,600	734,400	80	28	2,19	727,000	726,800	80	26	1,97
734,400	734,200	80	28	2,19	726,800	726,600	80	27	2,04
734,200	734,000	80	28	2,19	726,600	726,400	80	31	2,41
734,000	733,800	80	33	2,56	726,400	726,200	80	37	2,86
733,800	733,600	80	25	1,89	726,200	726,000	80	25	1,89
733,600	733,400	80	29	2,26	726,000	725,800	80	23	1,74
733,400	733,200	80	28	2,12	725,800	725,600	80	30	2,34
733,200	733,000	80	36	2,78	725,600	725,400	80	26	1,97
733,000	732,800	80	28	2,19	725,400	725,200	80	23	1,74
732,800	732,600	80	28	2,19	725,200	725,000	50	25	1,91
732,600	732,400	80	28	2,12	725,000	724,800	50	26	1,97
732,400	732,200	80	31	2,41	724,800	724,600	50	23	1,74

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
724,600	724,400	50	24	1,86	717,000	716,800	80	16	1,22
724,400	724,200	50	24	1,86	716,800	716,600	80	16	1,22
724,200	724,000	50	22	1,68	716,600	716,400	80	22	1,67
724,000	723,800	50	21	1,63	716,400	716,200	80	24	1,82
723,800	723,600	80	21	1,60	716,200	716,000	80	23	1,74
723,600	723,400	80	21	1,60	716,000	715,800	80	25	1,89
723,400	723,200	80	18	1,37	715,800	715,600	80	25	1,89
723,200	723,000	80	24	1,82	715,600	715,400	80	22	1,67
723,000	722,800	80	33	2,56	715,400	715,200	80	22	1,67
722,800	722,600	80	33	2,56	715,200	715,000	80	28	2,19
722,600	722,400	80	35	2,71	715,000	714,800	80	36	2,78
722,400	722,200	80	32	2,49	714,800	714,600	80	23	1,74
722,200	722,000	80	33	2,56	714,600	714,400	80	21	1,60
722,000	721,800	80	31	2,41	714,400	714,200	80	21	1,60
721,800	721,600	80	24	1,82	714,200	714,000	80	28	2,12
721,600	721,400	80	24	1,82	714,000	713,800	80	22	1,67
721,400	721,200	80	25	1,89	713,800	713,600	80	27	2,04
721,200	721,000	80	27	2,04	713,600	713,400	80	30	2,34
721,000	720,800	80	31	2,41	713,400	713,200	80	25	1,89
720,800	720,600	80	31	2,41	713,200	713,000	80	28	2,12
720,600	720,400	80	29	2,26	713,000	712,800	80	33	2,56
720,400	720,200	80	30	2,34	712,800	712,600	80	23	1,74
720,200	720,000	80	26	1,97	712,600	712,400	80	28	2,12
720,000	719,800	80	22	1,67	712,400	712,200	80	28	2,12
719,800	719,600	80	23	1,74	712,200	712,000	80	35	2,71
719,600	719,400	80	28	2,19	712,000	711,800	80	29	2,26
719,400	719,200	80	25	1,89	711,800	711,600	80	25	1,89
719,200	719,000	80	28	2,19	711,600	711,400	80	22	1,67
719,000	718,800	80	17	1,30	711,400	711,200	80	19	1,45
718,800	718,600	80	21	1,60	711,200	711,000	80	26	1,97
718,600	718,400	80	20	1,52	711,000	710,800	80	25	1,89
718,400	718,200	80	24	1,82	710,800	710,600	80	24	1,82
718,200	718,000	80	16	1,22	710,600	710,400	80	25	1,89
718,000	717,800	80	23	1,74	710,400	710,200	80	34	2,64
717,800	717,600	80	19	1,45	710,200	710,000	80	36	2,78
717,600	717,400	80	19	1,45	710,000	709,800	80	28	2,19
717,400	717,200	80	20	1,52	709,800	709,600	80	20	1,52
717,200	717,000	80	17	1,30	709,600	709,400	80	25	1,89

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
709,400	709,200	50	25	1,91	701,800	701,600	80	26	1,97
709,200	709,000	50	28	2,15	701,600	701,400	80	25	1,89
709,000	708,800	50	29	2,20	701,400	701,200	80	23	1,74
708,800	708,600	50	27	2,09	701,200	701,000	80	31	2,41
708,600	708,400	50	26	2,03	701,000	700,800	80	21	1,60
708,400	708,200	50	25	1,91	700,800	700,600	80	32	2,49
708,200	708,000	50	24	1,86	700,600	700,400	80	32	2,49
708,000	707,800	50	27	2,09	700,400	700,200	80	38	2,93
707,800	707,600	80	20	1,52	700,200	700,000	80	28	2,19
707,600	707,400	80	19	1,45	700,000	699,800	80	32	2,49
707,400	707,200	80	25	1,89	699,800	699,600	80	34	2,64
707,200	707,000	80	21	1,60	699,600	699,400	80	28	2,12
707,000	706,800	80	24	1,82	699,400	699,200	80	25	1,89
706,800	706,600	80	21	1,60	699,200	699,000	80	28	2,12
706,600	706,400	80	28	2,12	699,000	698,800	80	28	2,12
706,400	706,200	80	23	1,74	698,800	698,600	80	21	1,60
706,200	706,000	80	28	2,19	698,600	698,400	80	34	2,64
706,000	705,800	80	24	1,82	698,400	698,200	80	28	2,12
705,800	705,600	80	31	2,41	698,200	698,000	80	29	2,26
705,600	705,400	80	28	2,12	698,000	697,800	80	36	2,78
705,400	705,200	80	28	2,19	697,800	697,600	80	29	2,26
705,200	705,000	80	24	1,82	697,600	697,400	80	29	2,26
705,000	704,800	80	28	2,12	697,400	697,200	80	28	2,19
704,800	704,600	80	30	2,34	697,200	697,000	80	22	1,67
704,600	704,400	80	27	2,04	697,000	696,800	80	24	1,82
704,400	704,200	80	31	2,41	696,800	696,600	80	39	3,01
704,200	704,000	80	26	1,97	696,600	696,400	80	20	1,52
704,000	703,800	80	23	1,74	696,400	696,200	80	25	1,89
703,800	703,600	80	20	1,52	696,200	696,000	80	25	1,89
703,600	703,400	80	25	1,89	696,000	695,800	80	20	1,52
703,400	703,200	80	25	1,89	695,800	695,600	80	27	2,04
703,200	703,000	80	19	1,45	695,600	695,400	80	22	1,67
703,000	702,800	80	31	2,41	695,400	695,200	80	24	1,82
702,800	702,600	80	28	2,19	695,200	695,000	80	26	1,97
702,600	702,400	80	31	2,41	695,000	694,800	80	29	2,26
702,400	702,200	80	26	1,97	694,800	694,600	80	28	2,12
702,200	702,000	80	25	1,89	694,600	694,400	80	29	2,26
702,000	701,800	80	26	1,97	694,400	694,200	80	27	2,04

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 2			jan/2007	
INÍCIO					FINAL				
km 770,200					km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
694,200	694,000	80	24	1,82	686,600	686,400	80	22	1,67
694,000	693,800	80	25	1,89	686,400	686,200	80	27	2,04
693,800	693,600	80	32	2,49	686,200	686,000	80	30	2,34
693,600	693,400	80	24	1,82	686,000	685,800	80	23	1,74
693,400	693,200	80	24	1,82	685,800	685,600	80	23	1,74
693,200	693,000	80	20	1,52	685,600	685,400	80	27	2,04
693,000	692,800	80	22	1,67	685,400	685,200	80	20	1,52
692,800	692,600	80	34	2,64	685,200	685,000	80	21	1,60
692,600	692,400	80	32	2,49	685,000	684,800	80	14	1,08
692,400	692,200	80	26	1,97	684,800	684,600	80	24	1,82
692,200	692,000	80	22	1,67	684,600	684,400	80	22	1,67
692,000	691,800	80	25	1,89	684,400	684,200	80	25	1,89
691,800	691,600	80	37	2,86	684,200	684,000	80	21	1,60
691,600	691,400	80	29	2,26	684,000	683,800	80	23	1,74
691,400	691,200	80	20	1,52	683,800	683,600	80	21	1,60
691,200	691,000	80	21	1,60	683,600	683,400	80	21	1,60
691,000	690,800	80	28	2,12	683,400	683,200	80	32	2,49
690,800	690,600	80	36	2,78	683,200	683,000	80	38	2,93
690,600	690,400	80	29	2,26	683,000	682,800	80	32	2,49
690,400	690,200	80	25	1,89	682,800	682,600	80	39	3,01
690,200	690,000	80	24	1,82	682,600	682,400	80	37	2,86
690,000	689,800	80	25	1,89	682,400	682,200	80	35	2,71
689,800	689,600	80	24	1,82	682,200	682,000	80	40	3,08
689,600	689,400	80	23	1,74	682,000	681,800	80	36	2,78
689,400	689,200	80	29	2,26	681,800	681,600	80	29	2,26
689,200	689,000	80	25	1,89	681,600	681,400	80	35	2,71
689,000	688,800	80	25	1,89	681,400	681,200	80	38	2,93
688,800	688,600	80	26	1,97	681,200	681,000	80	27	2,04
688,600	688,400	80	22	1,67	681,000	680,800	80	39	3,01
688,400	688,200	80	25	1,89	680,800	680,600	80	37	2,86
688,200	688,000	80	25	1,89	680,600	680,400	80	35	2,71
688,000	687,800	80	21	1,60	680,400	680,200	80	31	2,41
687,800	687,600	80	19	1,45	680,200	680,000	80	27	2,04
687,600	687,400	80	25	1,89	680,000	679,800	30	33	2,57
687,400	687,200	80	17	1,30	679,800	679,600	50	35	2,66
687,200	687,000	80	20	1,52	679,600	679,400	50	34	2,61
687,000	686,800	80	19	1,45	679,400	679,200	50	33	2,55
686,800	686,600	80	19	1,45	679,200	679,000	80	36	2,78

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
679,000	678,800	80	41	3,15	671,400	671,200	80	43	3,30
678,800	678,600	80	46	3,53	671,200	671,000	80	34	2,64
678,600	678,400	50	41	3,18	671,000	670,800	80	36	2,78
678,400	678,200	50	35	2,66	670,800	670,600	80	35	2,71
678,200	678,000	50	29	2,26	670,600	670,400	80	20	1,52
678,000	677,800	50	35	2,72	670,400	670,200	80	22	1,67
677,800	677,600	50	26	1,97	670,200	670,000	80	27	2,04
677,600	677,400	80	32	2,49	670,000	669,800	80	43	3,30
677,400	677,200	80	24	1,82	669,800	669,600	80	46	3,53
677,200	677,000	80	24	1,82	669,600	669,400	80	19	1,45
677,000	676,800	80	23	1,74	669,400	669,200	80	23	1,74
676,800	676,600	80	35	2,71	669,200	669,000	80	20	1,52
676,600	676,400	80	18	1,37	669,000	668,800	80	28	2,12
676,400	676,200	80	19	1,45	668,800	668,600	80	34	2,64
676,200	676,000	80	24	1,82	668,600	668,400	80	32	2,49
676,000	675,800	80	25	1,89	668,400	668,200	80	35	2,71
675,800	675,600	80	22	1,67	668,200	668,000	80	36	2,78
675,600	675,400	80	22	1,67	668,000	667,800	80	19	1,45
675,400	675,200	80	28	2,12	667,800	667,600	80	27	2,04
675,200	675,000	80	19	1,45	667,600	667,400	80	24	1,82
675,000	674,800	80	18	1,37	667,400	667,200	80	34	2,64
674,800	674,600	80	17	1,30	667,200	667,000	80	40	3,08
674,600	674,400	80	25	1,89	667,000	666,800	80	43	3,30
674,400	674,200	80	29	2,26	666,800	666,600	80	32	2,49
674,200	674,000	80	25	1,89	666,600	666,400	80	27	2,04
674,000	673,800	80	20	1,52	666,400	666,200	80	19	1,45
673,800	673,600	80	22	1,67	666,200	666,000	80	28	2,19
673,600	673,400	80	21	1,60	666,000	665,800	80	40	3,08
673,400	673,200	80	19	1,45	665,800	665,600	80	22	1,67
673,200	673,000	80	26	1,97	665,600	665,400	80	27	2,04
673,000	672,800	80	24	1,82	665,400	665,200	50	25	1,91
672,800	672,600	80	18	1,37	665,200	665,000	50	23	1,74
672,600	672,400	80	29	2,26	665,000	664,800	50	26	1,97
672,400	672,200	80	32	2,49	664,800	664,600	50	29	2,26
672,200	672,000	80	24	1,82	664,600	664,400	80	29	2,26
672,000	671,800	80	23	1,74	664,400	664,200	80	37	2,86
671,800	671,600	80	19	1,45	664,200	664,000	80	41	3,15
671,600	671,400	80	24	1,82	664,000	663,800	80	44	3,38

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
663,800	663,600	80	45	3,45	656,200	656,000	80	23	1,74
663,600	663,400	80	32	2,49	656,000	655,800	80	29	2,26
663,400	663,200	80	37	2,86	655,800	655,600	80	50	3,82
663,200	663,000	50	23	1,74	655,600	655,400	80	54	4,12
663,000	662,800	50	23	1,74	655,400	655,200	80	60	4,64
662,800	662,600	80	17	1,30	655,200	655,000	80	53	4,05
662,600	662,400	80	21	1,60	655,000	654,800	80	42	3,23
662,400	662,200	80	24	1,82	654,800	654,600	80	27	2,04
662,200	662,000	80	24	1,82	654,600	654,400	80	37	2,86
662,000	661,800	80	32	2,49	654,400	654,200	80	28	2,19
661,800	661,600	80	34	2,64	654,200	654,000	80	40	3,08
661,600	661,400	80	52	3,97	654,000	653,800	80	39	3,01
661,400	661,200	80	48	3,67	653,800	653,600	80	38	2,93
661,200	661,000	80	36	2,78	653,600	653,400	80	36	2,78
661,000	660,800	80	39	3,01	653,400	653,200	80	25	1,89
660,800	660,600	80	24	1,82	653,200	653,000	80	28	2,12
660,600	660,400	80	24	1,82	653,000	652,800	80	21	1,60
660,400	660,200	80	33	2,56	652,800	652,600	80	27	2,04
660,200	660,000	80	28	2,12	652,600	652,400	80	27	2,04
660,000	659,800	80	28	2,19	652,400	652,200	80	28	2,12
659,800	659,600	80	36	2,78	652,200	652,000	80	34	2,64
659,600	659,400	80	33	2,56	652,000	651,800	80	32	2,49
659,400	659,200	80	30	2,34	651,800	651,600	80	28	2,19
659,200	659,000	80	25	1,89	651,600	651,400	80	30	2,34
659,000	658,800	80	28	2,19	651,400	651,200	80	27	2,04
658,800	658,600	50	31	2,38	651,200	651,000	80	37	2,86
658,600	658,400	50	29	2,20	651,000	650,800	80	42	3,23
658,400	658,200	80	32	2,49	650,800	650,600	80	24	1,82
658,200	658,000	80	37	2,86	650,600	650,400	80	30	2,34
658,000	657,800	80	56	4,34	650,400	650,200	80	30	2,34
657,800	657,600	80	55	4,27	650,200	650,000	80	18	1,37
657,600	657,400	80	43	3,30	650,000	649,800	80	21	1,60
657,400	657,200	80	28	2,19	649,800	649,600	80	23	1,74
657,200	657,000	80	39	3,01	649,600	649,400	80	23	1,74
657,000	656,800	80	46	3,53	649,400	649,200	80	27	2,04
656,800	656,600	80	27	2,04	649,200	649,000	80	33	2,56
656,600	656,400	80	22	1,67	649,000	648,800	80	38	2,93
656,400	656,200	80	26	1,97	648,800	648,600	80	29	2,26

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 2			jan/2007	
INICIO					FINAL				
km 770,200					km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
648,600	648,400	80	42	3,23	641,000	640,800	80	30	2,34
648,400	648,200	80	39	3,01	640,800	640,600	80	32	2,49
648,200	648,000	80	48	3,67	640,600	640,400	80	34	2,64
648,000	647,800	50	34	2,61	640,400	640,200	80	31	2,41
647,800	647,600	30	34	2,62	640,200	640,000	80	28	2,12
647,600	647,400	30	38	2,95	640,000	639,800	80	34	2,64
647,400	647,200	50	27	2,09	639,800	639,600	80	35	2,71
647,200	647,000	80	26	1,97	639,600	639,400	80	39	3,01
647,000	646,800	80	47	3,60	639,400	639,200	50	45	3,47
646,800	646,600	80	58	4,49	639,200	639,000	50	32	2,49
646,600	646,400	80	42	3,23	639,000	638,800	50	26	1,97
646,400	646,200	80	36	2,78	638,800	638,600	50	33	2,55
646,200	646,000	80	47	3,60	638,600	638,400	50	32	2,49
646,000	645,800	80	53	4,05	638,400	638,200	80	30	2,34
645,800	645,600	80	17	1,30	638,200	638,000	80	40	3,08
645,600	645,400	80	29	2,26	638,000	637,800	80	38	2,93
645,400	645,200	80	54	4,12	637,800	637,600	80	38	2,93
645,200	645,000	80	45	3,45	637,600	637,400	80	27	2,04
645,000	644,800	80	46	3,53	637,400	637,200	80	37	2,86
644,800	644,600	80	42	3,23	637,200	637,000	80	35	2,71
644,600	644,400	80	47	3,60	637,000	636,800	80	30	2,34
644,400	644,200	80	41	3,15	636,800	636,600	80	32	2,49
644,200	644,000	80	29	2,26	636,600	636,400	80	27	2,04
644,000	643,800	80	26	1,97	636,400	636,200	80	31	2,41
643,800	643,600	80	28	2,19	636,200	636,000	80	32	2,49
643,600	643,400	80	28	2,12	636,000	635,800	80	30	2,34
643,400	643,200	80	32	2,49	635,800	635,600	80	32	2,49
643,200	643,000	80	28	2,19	635,600	635,400	80	38	2,93
643,000	642,800	80	29	2,26	635,400	635,200	80	27	2,04
642,800	642,600	80	28	2,12	635,200	635,000	80	24	1,82
642,600	642,400	80	29	2,26	635,000	634,800	80	33	2,56
642,400	642,200	80	28	2,12	634,800	634,600	80	30	2,34
642,200	642,000	80	27	2,04	634,600	634,400	80	32	2,49
642,000	641,800	80	34	2,64	634,400	634,200	80	44	3,38
641,800	641,600	80	36	2,78	634,200	634,000	80	37	2,86
641,600	641,400	80	42	3,23	634,000	633,800	80	41	3,15
641,400	641,200	80	36	2,78	633,800	633,600	80	41	3,15
641,200	641,000	80	28	2,19	633,600	633,400	80	28	2,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
633,400	633,200	80	47	3,60	625,800	625,600	30	105	8,11
633,200	633,000	80	32	2,49	625,600	625,400	30	108	8,30
633,000	632,800	80	44	3,38	625,400	625,200	50	65	5,03
632,800	632,600	80	36	2,78	625,200	625,000	80	40	3,08
632,600	632,400	80	38	2,93	625,000	624,800	80	75	5,75
632,400	632,200	80	32	2,49	624,800	624,600	80	66	5,08
632,200	632,000	80	29	2,26	624,600	624,400	80	37	2,86
632,000	631,800	80	26	1,97	624,400	624,200	80	60	4,64
631,800	631,600	50	39	3,01	624,200	624,000	80	62	4,79
631,600	631,400	30	43	3,33	624,000	623,800	80	44	3,38
631,400	631,200	50	52	3,99	623,800	623,600	80	43	3,30
631,200	631,000	80	38	2,93	623,600	623,400	80	38	2,93
631,000	630,800	80	51	3,90	623,400	623,200	80	30	2,34
630,800	630,600	80	41	3,15	623,200	623,000	80	35	2,71
630,600	630,400	80	46	3,53	623,000	622,800	80	43	3,30
630,400	630,200	80	48	3,67	622,800	622,600	80	33	2,56
630,200	630,000	80	45	3,45	622,600	622,400	80	33	2,56
630,000	629,800	80	35	2,71	622,400	622,200	80	41	3,15
629,800	629,600	80	39	3,01	622,200	622,000	80	38	2,93
629,600	629,400	80	32	2,49	622,000	621,800	80	32	2,49
629,400	629,200	80	58	4,49	621,800	621,600	80	31	2,41
629,200	629,000	80	42	3,23	621,600	621,400	80	36	2,78
629,000	628,800	80	37	2,86	621,400	621,200	80	33	2,56
628,800	628,600	80	47	3,60	621,200	621,000	80	35	2,71
628,600	628,400	50	45	3,47	621,000	620,800	80	57	4,42
628,400	628,200	50	52	3,99	620,800	620,600	80	50	3,82
628,200	628,000	50	44	3,36	620,600	620,400	80	33	2,56
628,000	627,800	50	35	2,66	620,400	620,200	80	41	3,15
627,800	627,600	50	35	2,72	620,200	620,000	80	46	3,53
627,600	627,400	50	53	4,05	620,000	619,800	80	39	3,01
627,400	627,200	50	56	4,28	619,800	619,600	80	37	2,86
627,200	627,000	50	50	3,82	619,600	619,400	80	35	2,71
627,000	626,800	50	65	4,97	619,400	619,200	80	42	3,23
626,800	626,600	50	52	3,99	619,200	619,000	80	25	1,89
626,600	626,400	50	31	2,38	619,000	618,800	80	25	1,89
626,400	626,200	50	86	6,58	618,800	618,600	80	22	1,67
626,200	626,000	50	96	7,39	618,600	618,400	80	25	1,89
626,000	625,800	50	74	5,72	618,400	618,200	80	36	2,78

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Decrescente / Faixa 2			jan/2007	
INICIO					FINAL				
km 770,200					km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
618,200	618,000	80	33	2,56	610,600	610,400	80	37	2,86
618,000	617,800	80	23	1,74	610,400	610,200	80	63	4,86
617,800	617,600	80	31	2,41	610,200	610,000	80	68	5,23
617,600	617,400	80	31	2,41	610,000	609,800	80	56	4,34
617,400	617,200	80	37	2,86	609,800	609,600	80	91	7,01
617,200	617,000	80	28	2,19	609,600	609,400	80	26	1,97
617,000	616,800	80	36	2,78	609,400	609,200	80	53	4,05
616,800	616,600	80	40	3,08	609,200	609,000	80	47	3,60
616,600	616,400	80	33	2,56	609,000	608,800	80	29	2,26
616,400	616,200	80	30	2,34	608,800	608,600	80	60	4,64
616,200	616,000	80	19	1,45	608,600	608,400	80	37	2,86
616,000	615,800	80	23	1,74	608,400	608,200	80	55	4,27
615,800	615,600	80	25	1,89	608,200	608,000	50	31	2,38
615,600	615,400	80	28	2,12	608,000	607,800	50	56	4,33
615,400	615,200	50	30	2,32	607,800	607,600	50	33	2,55
615,200	615,000	50	33	2,55	607,600	607,400	50	34	2,61
615,000	614,800	50	36	2,78	607,400	607,200	80	37	2,86
614,800	614,600	50	30	2,32	607,200	607,000	80	34	2,64
614,600	614,400	80	20	1,52	607,000	606,800	80	25	1,89
614,400	614,200	80	25	1,89	606,800	606,600	80	31	2,41
614,200	614,000	80	33	2,56	606,600	606,400	80	36	2,78
614,000	613,800	80	39	3,01	606,400	606,200	80	35	2,71
613,800	613,600	80	31	2,41	606,200	606,000	80	30	2,34
613,600	613,400	80	68	5,23	606,000	605,800	80	38	2,93
613,400	613,200	80	40	3,08	605,800	605,600	80	23	1,74
613,200	613,000	80	33	2,56	605,600	605,400	80	26	1,97
613,000	612,800	80	22	1,67	605,400	605,200	80	32	2,49
612,800	612,600	80	31	2,41	605,200	605,000	80	29	2,26
612,600	612,400	80	48	3,67	605,000	604,800	80	37	2,86
612,400	612,200	80	48	3,67	604,800	604,600	50	36	2,78
612,200	612,000	80	36	2,78	604,600	604,400	50	38	2,89
612,000	611,800	80	28	2,12	604,400	604,200	50	55	4,22
611,800	611,600	80	35	2,71	604,200	604,000	80	40	3,08
611,600	611,400	80	37	2,86	604,000	603,800	80	33	2,56
611,400	611,200	80	37	2,86	603,800	603,600	80	36	2,78
611,200	611,000	80	45	3,45	603,600	603,400	80	32	2,49
611,000	610,800	80	39	3,01	603,400	603,200	80	35	2,71
610,800	610,600	80	51	3,90	603,200	603,000	80	37	2,86

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
603,000	602,800	80	27	2,04	595,400	595,200	50	53	4,05
602,800	602,600	80	30	2,34	595,200	595,000	50	43	3,30
602,600	602,400	80	39	3,01	595,000	594,800	50	59	4,51
602,400	602,200	80	41	3,15	594,800	594,600	50	59	4,51
602,200	602,000	80	44	3,38	594,600	594,400	50	62	4,80
602,000	601,800	50	42	3,24	594,400	594,200	50	34	2,61
601,800	601,600	80	31	2,41	594,200	594,000	50	31	2,38
601,600	601,400	80	38	2,93	594,000	593,800	50	30	2,32
601,400	601,200	80	76	5,83	593,800	593,600	50	32	2,43
601,200	601,000	80	34	2,64	593,600	593,400	50	41	3,18
601,000	600,800	80	25	1,89	593,400	593,200	50	47	3,64
600,800	600,600	80	27	2,04	593,200	593,000	50	34	2,61
600,600	600,400	80	30	2,34	593,000	592,800	50	51	3,93
600,400	600,200	80	25	1,89	592,800	592,600	50	51	3,93
600,200	600,000	80	25	1,89	592,600	592,400	80	41	3,15
600,000	599,800	80	28	2,19	592,400	592,200	80	32	2,49
599,800	599,600	80	24	1,82	592,200	592,000	80	36	2,78
599,600	599,400	80	36	2,78	592,000	591,800	80	32	2,49
599,400	599,200	80	28	2,12	591,800	591,600	80	41	3,15
599,200	599,000	80	32	2,49	591,600	591,400	80	52	3,97
599,000	598,800	80	48	3,67	591,400	591,200	80	49	3,75
598,800	598,600	80	28	2,19	591,200	591,000	50	26	1,97
598,600	598,400	80	23	1,74	591,000	590,800	50	45	3,47
598,400	598,200	80	32	2,49	590,800	590,600	50	38	2,89
598,200	598,000	80	45	3,45	590,600	590,400	50	35	2,66
598,000	597,800	80	55	4,19	590,400	590,200	50	40	3,07
597,800	597,600	80	46	3,53	590,200	590,000	80	37	2,86
597,600	597,400	80	39	3,01	590,000	589,800	80	33	2,56
597,400	597,200	80	30	2,34	589,800	589,600	50	37	2,84
597,200	597,000	80	43	3,30	589,600	589,400	50	32	2,49
597,000	596,800	80	39	3,01	589,400	589,200	50	41	3,12
596,800	596,600	80	47	3,60	589,200	589,000	50	32	2,49
596,600	596,400	80	73	5,60	589,000	588,800	50	32	2,43
596,400	596,200	80	39	3,01	588,800	588,600	50	30	2,32
596,200	596,000	80	81	6,20	588,600	588,400	50	38	2,89
596,000	595,800	80	68	5,23	588,400	588,200	50	30	2,32
595,800	595,600	50	65	4,97	588,200	588,000	50	42	3,24
595,600	595,400	50	65	5,03	588,000	587,800	50	41	3,12

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
587,800	587,600	80	45	3,45	580,200	580,000	80	43	3,30
587,600	587,400	80	47	3,60	580,000	579,800	80	38	2,93
587,400	587,200	80	35	2,71	579,800	579,600	80	31	2,41
587,200	587,000	80	32	2,49	579,600	579,400	80	44	3,38
587,000	586,800	80	30	2,34	579,400	579,200	80	32	2,49
586,800	586,600	80	42	3,23	579,200	579,000	80	28	2,19
586,600	586,400	80	58	4,49	579,000	578,800	80	43	3,30
586,400	586,200	80	29	2,26	578,800	578,600	80	52	3,97
586,200	586,000	80	48	3,67	578,600	578,400	80	55	4,19
586,000	585,800	80	35	2,71	578,400	578,200	80	56	4,34
585,800	585,600	80	35	2,71	578,200	578,000	80	37	2,86
585,600	585,400	80	53	4,05	578,000	577,800	80	35	2,71
585,400	585,200	80	62	4,79	577,800	577,600	80	55	4,27
585,200	585,000	30	36	2,76	577,600	577,400	50	57	4,39
585,000	584,800	30	27	2,05	577,400	577,200	50	65	4,97
584,800	584,600	30	34	2,62	577,200	577,000	50	75	5,77
584,600	584,400	50	46	3,53	577,000	576,800	80	35	2,71
584,400	584,200	50	85	6,52	576,800	576,600	80	24	1,82
584,200	584,000	50	41	3,18	576,600	576,400	80	34	2,64
584,000	583,800	50	41	3,18	576,400	576,200	80	21	1,60
583,800	583,600	50	33	2,55	576,200	576,000	80	28	2,12
583,600	583,400	50	32	2,49	576,000	575,800	80	44	3,38
583,400	583,200	50	29	2,20	575,800	575,600	80	28	2,19
583,200	583,000	50	38	2,89	575,600	575,400	80	31	2,41
583,000	582,800	80	59	4,57	575,400	575,200	80	35	2,71
582,800	582,600	80	60	4,64	575,200	575,000	80	35	2,71
582,600	582,400	80	65	5,01	575,000	574,800	80	23	1,74
582,400	582,200	80	43	3,30	574,800	574,600	80	23	1,74
582,200	582,000	80	50	3,82	574,600	574,400	80	32	2,49
582,000	581,800	80	68	5,23	574,400	574,200	80	44	3,38
581,800	581,600	80	56	4,34	574,200	574,000	80	24	1,82
581,600	581,400	80	59	4,57	574,000	573,800	80	58	4,49
581,400	581,200	80	72	5,53	573,800	573,600	80	35	2,71
581,200	581,000	80	41	3,15	573,600	573,400	80	33	2,56
581,000	580,800	80	42	3,23	573,400	573,200	80	27	2,04
580,800	580,600	80	33	2,56	573,200	573,000	80	29	2,26
580,600	580,400	80	47	3,60	573,000	572,800	80	28	2,12
580,400	580,200	80	39	3,01	572,800	572,600	80	23	1,74

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
572,600	572,400	80	30	2,34	565,000	564,800	80	49	3,75
572,400	572,200	80	35	2,71	564,800	564,600	80	46	3,53
572,200	572,000	80	25	1,89	564,600	564,400	80	34	2,64
572,000	571,800	80	35	2,71	564,400	564,200	80	58	4,49
571,800	571,600	80	52	3,97	564,200	564,000	80	39	3,01
571,600	571,400	80	49	3,75	564,000	563,800	80	25	1,89
571,400	571,200	80	39	3,01	563,800	563,600	80	44	3,38
571,200	571,000	80	38	2,93	563,600	563,400	80	37	2,86
571,000	570,800	80	34	2,64	563,400	563,200	80	34	2,64
570,800	570,600	80	30	2,34	563,200	563,000	80	27	2,04
570,600	570,400	80	36	2,78	563,000	562,800	80	22	1,67
570,400	570,200	80	55	4,19	562,800	562,600	80	29	2,26
570,200	570,000	80	73	5,60	562,600	562,400	80	42	3,23
570,000	569,800	80	55	4,27	562,400	562,200	80	23	1,74
569,800	569,600	80	39	3,01	562,200	562,000	80	27	2,04
569,600	569,400	80	56	4,34	562,000	561,800	80	32	2,49
569,400	569,200	80	37	2,86	561,800	561,600	80	31	2,41
569,200	569,000	80	45	3,45	561,600	561,400	80	39	3,01
569,000	568,800	80	27	2,04	561,400	561,200	80	63	4,86
568,800	568,600	80	32	2,49	561,200	561,000	80	63	4,86
568,600	568,400	80	37	2,86	561,000	560,800	80	73	5,60
568,400	568,200	80	38	2,93	560,800	560,600	80	63	4,86
568,200	568,000	80	39	3,01	560,600	560,400	80	30	2,34
568,000	567,800	80	28	2,19	560,400	560,200	80	43	3,30
567,800	567,600	80	46	3,53	560,200	560,000	80	51	3,90
567,600	567,400	80	55	4,19	560,000	559,800	80	49	3,75
567,400	567,200	80	67	5,16	559,800	559,600	80	50	3,82
567,200	567,000	80	26	1,97	559,600	559,400	80	43	3,30
567,000	566,800	80	47	3,60	559,400	559,200	80	35	2,71
566,800	566,600	80	69	5,31	559,200	559,000	80	48	3,67
566,600	566,400	80	41	3,15	559,000	558,800	80	37	2,86
566,400	566,200	80	33	2,56	558,800	558,600	80	39	3,01
566,200	566,000	80	59	4,57	558,600	558,400	80	47	3,60
566,000	565,800	80	41	3,15	558,400	558,200	80	47	3,60
565,800	565,600	80	34	2,64	558,200	558,000	80	48	3,67
565,600	565,400	80	33	2,56	558,000	557,800	80	27	2,04
565,400	565,200	80	29	2,26	557,800	557,600	80	28	2,19
565,200	565,000	80	36	2,78	557,600	557,400	80	33	2,56

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
557,400	557,200	80	44	3,38	549,800	549,600	50	33	2,55
557,200	557,000	80	44	3,38	549,600	549,400	80	29	2,26
557,000	556,800	80	39	3,01	549,400	549,200	80	23	1,74
556,800	556,600	80	55	4,19	549,200	549,000	80	29	2,26
556,600	556,400	80	37	2,86	549,000	548,800	80	31	2,41
556,400	556,200	80	52	3,97	548,800	548,600	80	28	2,19
556,200	556,000	80	35	2,71	548,600	548,400	50	26	1,97
556,000	555,800	80	25	1,89	548,400	548,200	50	28	2,15
555,800	555,600	80	26	1,97	548,200	548,000	50	27	2,09
555,600	555,400	80	24	1,82	548,000	547,800	80	22	1,67
555,400	555,200	80	39	3,01	547,800	547,600	80	25	1,89
555,200	555,000	80	36	2,78	547,600	547,400	80	20	1,52
555,000	554,800	80	33	2,56	547,400	547,200	80	24	1,82
554,800	554,600	80	20	1,52	547,200	547,000	80	27	2,04
554,600	554,400	80	27	2,04	547,000	546,800	80	31	2,41
554,400	554,200	80	22	1,67	546,800	546,600	80	30	2,34
554,200	554,000	80	33	2,56	546,600	546,400	80	36	2,78
554,000	553,800	80	43	3,30	546,400	546,200	80	22	1,67
553,800	553,600	80	39	3,01	546,200	546,000	80	33	2,56
553,600	553,400	80	31	2,41	546,000	545,800	80	44	3,38
553,400	553,200	80	31	2,41	545,800	545,600	80	26	1,97
553,200	553,000	80	40	3,08	545,600	545,400	80	23	1,74
553,000	552,800	80	28	2,12	545,400	545,200	80	22	1,67
552,800	552,600	80	39	3,01	545,200	545,000	80	26	1,97
552,600	552,400	80	24	1,82	545,000	544,800	80	43	3,30
552,400	552,200	80	21	1,60	544,800	544,600	80	27	2,04
552,200	552,000	80	21	1,60	544,600	544,400	80	48	3,67
552,000	551,800	80	16	1,22	544,400	544,200	80	28	2,12
551,800	551,600	80	20	1,52	544,200	544,000	80	28	2,12
551,600	551,400	80	28	2,12	Início Trevo de BH - Reinício no km 533,000				
551,400	551,200	80	37	2,86					
551,200	551,000	80	29	2,26					
551,000	550,800	80	42	3,23					
550,800	550,600	80	30	2,34					
550,600	550,400	80	33	2,56					
550,400	550,200	80	33	2,56					
550,200	550,000	50	41	3,18					
550,000	549,800	50	35	2,66					

IRREGULARIDADE LONGITUDINAL - QI										
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007		
INÍCIO km 770,200					FINAL km 544,000					
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI		Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
533,000	532,800	30	44	3,41		525,400	525,200	50	29	2,27
532,800	532,600	30	51	3,91		525,200	525,000	50	28	2,15
532,600	532,400	50	53	4,07		525,000	524,800	80	17	1,32
532,400	532,200	50	58	4,48		524,800	524,600	80	25	1,91
532,200	532,000	50	63	4,83		524,600	524,400	80	20	1,54
532,000	531,800	50	61	4,71		524,400	524,200	80	22	1,69
531,800	531,600	50	58	4,48		524,200	524,000	80	22	1,69
531,600	531,400	30	72	5,52		524,000	523,800	80	23	1,76
531,400	531,200	30	69	5,29		523,800	523,600	50	22	1,68
531,200	531,000	50	62	4,77		523,600	523,400	50	23	1,74
531,000	530,800	50	65	5,00		523,400	523,200	50	22	1,68
530,800	530,600	50	85	6,52		523,200	523,000	50	21	1,63
530,600	530,400	50	51	3,95		523,000	522,800	50	23	1,74
530,400	530,200	30	51	3,96		522,800	522,600	50	24	1,86
530,200	530,000	30	51	3,91		522,600	522,400	50	23	1,74
530,000	529,800	30	45	3,45		522,400	522,200	50	23	1,74
529,800	529,600	50	41	3,14		522,200	522,000	50	20	1,57
529,600	529,400	50	48	3,66		522,000	521,800	50	20	1,57
529,400	529,200	50	51	3,95		521,800	521,600	30	23	1,76
529,200	529,000	50	43	3,31		521,600	521,400	30	23	1,80
529,000	528,800	50	46	3,55		521,400	521,200	30	23	1,76
528,800	528,600	50	64	4,94		521,200	521,000	30	22	1,71
528,600	528,400	50	79	6,11		521,000	520,800	50	21	1,63
528,400	528,200	80	73	5,65		520,800	520,600	50	37	2,85
528,200	528,000	80	29	2,20		520,600	520,400	50	40	3,08
528,000	527,800	80	20	1,54		520,400	520,200	50	23	1,80
527,800	527,600	80	25	1,91		520,200	520,000	50	22	1,68
527,600	527,400	80	20	1,54		520,000	519,800	50	22	1,68
527,400	527,200	80	20	1,54		519,800	519,600	50	22	1,68
527,200	527,000	80	13	1,03		519,600	519,400	50	20	1,57
527,000	526,800	80	29	2,20		519,400	519,200	50	23	1,80
526,800	526,600	80	25	1,91		519,200	519,000	50	23	1,80
526,600	526,400	80	26	1,98		519,000	518,800	50	21	1,63
526,400	526,200	80	28	2,13		518,800	518,600	50	19	1,45
526,200	526,000	80	27	2,05		518,600	518,400	50	20	1,57
526,000	525,800	80	23	1,76		518,400	518,200	50	20	1,51
525,800	525,600	80	34	2,64		518,200	518,000	50	20	1,57
525,600	525,400	50	24	1,86		518,000	517,800	50	20	1,51

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
517,800	517,600	50	18	1,39	510,200	510,000	80	18	1,39
517,600	517,400	50	25	1,92	510,000	509,800	80	18	1,39
517,400	517,200	80	20	1,54	509,800	509,600	80	19	1,47
517,200	517,000	80	18	1,39	509,600	509,400	50	23	1,74
517,000	516,800	80	16	1,25	509,400	509,200	50	22	1,68
516,800	516,600	80	17	1,32	509,200	509,000	50	21	1,63
516,600	516,400	80	23	1,76	509,000	508,800	50	23	1,74
516,400	516,200	80	19	1,47	508,800	508,600	50	23	1,74
516,200	516,000	80	16	1,25	508,600	508,400	50	23	1,74
516,000	515,800	80	21	1,61	508,400	508,200	80	15	1,17
515,800	515,600	80	24	1,83	508,200	508,000	80	16	1,25
515,600	515,400	80	20	1,54	508,000	507,800	80	18	1,39
515,400	515,200	80	20	1,54	507,800	507,600	80	18	1,39
515,200	515,000	80	17	1,32	507,600	507,400	80	18	1,39
515,000	514,800	80	19	1,47	507,400	507,200	80	18	1,39
514,800	514,600	80	19	1,47	507,200	507,000	80	24	1,83
514,600	514,400	80	23	1,76	507,000	506,800	80	18	1,39
514,400	514,200	80	21	1,61	506,800	506,600	80	20	1,54
514,200	514,000	80	19	1,47	506,600	506,400	80	14	1,10
514,000	513,800	80	16	1,25	506,400	506,200	80	14	1,10
513,800	513,600	80	18	1,39	506,200	506,000	80	15	1,17
513,600	513,400	80	24	1,83	506,000	505,800	80	24	1,83
513,400	513,200	80	17	1,32	505,800	505,600	80	26	1,98
513,200	513,000	80	20	1,54	505,600	505,400	80	25	1,91
513,000	512,800	80	16	1,25	505,400	505,200	80	33	2,57
512,800	512,600	80	20	1,54	505,200	505,000	80	24	1,83
512,600	512,400	80	14	1,10	505,000	504,800	80	21	1,61
512,400	512,200	80	22	1,69	504,800	504,600	80	24	1,83
512,200	512,000	80	17	1,32	504,600	504,400	80	19	1,47
512,000	511,800	80	23	1,76	504,400	504,200	80	16	1,25
511,800	511,600	80	23	1,76	504,200	504,000	80	16	1,25
511,600	511,400	50	27	2,09	504,000	503,800	80	26	1,98
511,400	511,200	50	23	1,80	503,800	503,600	80	20	1,54
511,200	511,000	50	23	1,74	503,600	503,400	80	19	1,47
511,000	510,800	50	20	1,57	503,400	503,200	80	19	1,47
510,800	510,600	50	19	1,45	503,200	503,000	80	42	3,23
510,600	510,400	80	22	1,69	503,000	502,800	80	21	1,61
510,400	510,200	80	19	1,47	502,800	502,600	80	20	1,54

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
502,600	502,400	80	19	1,47	495,000	494,800	30	29	2,26
502,400	502,200	80	14	1,10	494,800	494,600	50	32	2,50
502,200	502,000	80	16	1,25	494,600	494,400	50	31	2,38
502,000	501,800	80	18	1,39	494,400	494,200	50	29	2,27
501,800	501,600	80	21	1,61	494,200	494,000	80	24	1,83
501,600	501,400	80	20	1,54	494,000	493,800	80	22	1,69
501,400	501,200	80	18	1,39	493,800	493,600	80	28	2,13
501,200	501,000	80	17	1,32	493,600	493,400	80	26	1,98
501,000	500,800	80	20	1,54	493,400	493,200	80	23	1,76
500,800	500,600	80	25	1,91	493,200	493,000	80	24	1,83
500,600	500,400	80	21	1,61	493,000	492,800	80	31	2,35
500,400	500,200	80	16	1,25	492,800	492,600	80	32	2,49
500,200	500,000	80	27	2,05	492,600	492,400	80	28	2,13
500,000	499,800	80	17	1,32	492,400	492,200	80	25	1,91
499,800	499,600	80	28	2,13	492,200	492,000	80	24	1,83
499,600	499,400	80	25	1,91	492,000	491,800	80	24	1,83
499,400	499,200	80	34	2,64	491,800	491,600	80	21	1,61
499,200	499,000	80	56	4,33	491,600	491,400	80	30	2,27
499,000	498,800	80	86	6,60	491,400	491,200	80	38	2,93
498,800	498,600	80	56	4,33	491,200	491,000	80	28	2,13
498,600	498,400	80	25	1,91	491,000	490,800	80	47	3,59
498,400	498,200	80	28	2,13	490,800	490,600	80	32	2,49
498,200	498,000	80	30	2,27	490,600	490,400	80	27	2,05
498,000	497,800	80	26	1,98	490,400	490,200	80	40	3,08
497,800	497,600	80	24	1,83	490,200	490,000	80	44	3,37
497,600	497,400	80	76	5,87	490,000	489,800	80	62	4,77
497,400	497,200	80	87	6,67	489,800	489,600	80	43	3,30
497,200	497,000	50	66	5,06	489,600	489,400	80	63	4,84
497,000	496,800	50	53	4,07	489,400	489,200	80	50	3,81
496,800	496,600	50	50	3,84	489,200	489,000	80	43	3,30
496,600	496,400	50	68	5,24	489,000	488,800	80	30	2,27
496,400	496,200	50	98	7,51	488,800	488,600	80	31	2,42
496,200	496,000	30	79	6,07	488,600	488,400	80	48	3,67
496,000	495,800	30	84	6,49	488,400	488,200	80	43	3,30
495,800	495,600	30	62	4,79	488,200	488,000	80	62	4,77
495,600	495,400	30	34	2,58	488,000	487,800	80	31	2,42
495,400	495,200	30	41	3,18	487,800	487,600	80	27	2,05
495,200	495,000	30	27	2,08	487,600	487,400	80	27	2,05

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Decrescente / Faixa 2			DATA jan/2007	
INÍCIO km 770,200					FINAL km 544,000				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
487,400	487,200	80	22	1,69	479,800	479,600	80	36	2,79
487,200	487,000	80	24	1,83	479,600	479,400	80	26	1,98
487,000	486,800	80	22	1,69	479,400	479,200	80	39	3,01
486,800	486,600	80	22	1,69	479,200	479,000	80	27	2,05
486,600	486,400	80	27	2,05	479,000	478,800	80	27	2,05
486,400	486,200	50	26	1,97	478,800	478,600	80	36	2,79
486,200	486,000	50	28	2,15	478,600	478,400	80	24	1,83
486,000	485,800	80	30	2,27	478,400	478,200	80	29	2,20
485,800	485,600	80	21	1,61	478,200	478,000	80	31	2,35
485,600	485,400	80	24	1,83	478,000	477,800	80	29	2,20
485,400	485,200	80	24	1,83	477,800	477,600	80	26	1,98
485,200	485,000	80	29	2,20	477,600	477,400	80	31	2,42
485,000	484,800	80	26	1,98	477,400	477,200	80	36	2,79
484,800	484,600	80	34	2,64	477,200	477,000	80	28	2,13
484,600	484,400	80	32	2,49	477,000	476,800	80	26	1,98
484,400	484,200	80	30	2,27	476,800	476,600	80	36	2,79
484,200	484,000	50	46	3,55	476,600	476,400	30	49	3,78
484,000	483,800	50	72	5,53	476,400	476,200	30	60	4,65
483,800	483,600	50	49	3,78	476,200	476,000	50	44	3,37
483,600	483,400	50	51	3,90	476,000	475,800	50	36	2,73
483,400	483,200	80	39	3,01	475,800	475,600	50	29	2,27
483,200	483,000	80	41	3,15	475,600	475,400	50	29	2,21
483,000	482,800	80	26	1,98	475,400	475,200	50	32	2,50
482,800	482,600	80	27	2,05	475,200	475,000	50	29	2,21
482,600	482,400	80	31	2,35	475,000	474,800	80	27	2,05
482,400	482,200	80	43	3,30	474,800	474,600	80	28	2,13
482,200	482,000	80	41	3,15	474,600	474,400	80	30	2,27
482,000	481,800	80	31	2,42	474,400	474,200	80	30	2,27
481,800	481,600	80	57	4,40	474,200	474,000	80	29	2,20
481,600	481,400	80	52	4,03	474,000	473,800	80	27	2,05
481,400	481,200	80	35	2,71	473,800	473,600	80	32	2,49
481,200	481,000	80	42	3,23	473,600	473,400	80	54	4,18
481,000	480,800	80	51	3,96	473,400	473,200	80	25	1,91
480,800	480,600	80	45	3,45	473,200	473,000	80	29	2,20
480,600	480,400	80	43	3,30	473,000	472,800	80	31	2,35
480,400	480,200	80	60	4,62	472,800	472,600	80	24	1,83
480,200	480,000	80	41	3,15	472,600	472,400	80	25	1,91
480,000	479,800	80	32	2,49	472,400	472,200	80	23	1,76

[illegible]

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

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Faixas Adicionais			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
CRESCENTE					144,150	144,350	50	39	3,02
42,100	42,300	30	30	2,31	144,350	144,550	50	29	2,21
42,300	42,500	50	29	2,21	144,550	144,750	50	21	1,63
42,500	42,700	50	30	2,32	144,750	144,950	50	27	2,09
42,700	42,731	50	28	2,17	144,950	145,032	50	30	2,32
46,100	46,300	50	36	2,73	176,100	176,300	50	42	3,26
46,300	46,500	80	31	2,35	176,300	176,500	50	57	4,36
46,500	46,700	80	25	1,91	176,500	176,700	50	51	3,90
46,700	46,900	80	31	2,42	176,700	176,900	50	57	4,36
46,900	47,100	80	30	2,27	176,900	177,100	50	52	4,01
47,100	47,183	80	31	2,35	177,100	177,144	50	41	3,16
137,550	137,750	50	35	2,67	180,250	180,450	80	41	3,15
137,750	137,950	80	34	2,64	180,450	180,650	80	42	3,23
137,950	138,150	80	42	3,23	180,650	180,850	80	52	4,03
138,150	138,350	80	59	4,55	180,850	181,050	80	31	2,35
138,350	138,550	80	29	2,20	181,050	181,250	80	60	4,62
138,550	138,750	80	25	1,91	181,250	181,450	80	71	5,50
138,750	138,950	80	45	3,45	181,450	181,650	80	51	3,96
138,950	139,150	80	29	2,20	181,650	181,735	80	50	3,86
139,150	139,350	80	26	1,98					
139,350	139,550	80	31	2,42	197,700	197,900	50	71	5,47
139,550	139,750	80	31	2,42	197,900	198,100	50	52	4,01
139,750	139,950	80	37	2,86	198,100	198,300	30	51	3,96
139,950	140,150	80	31	2,35	198,300	198,500	30	37	2,81
140,150	140,350	80	28	2,13	198,500	198,506	30	0	0,00
140,350	140,550	80	36	2,79					
140,550	140,750	80	34	2,64	204,050	204,250	50	46	3,55
140,750	140,950	80	41	3,15	204,250	204,450	50	38	2,91
140,950	141,150	80	39	3,01	204,450	204,650	50	59	4,54
141,150	141,350	80	37	2,86	204,650	204,850	50	42	3,20
141,350	141,550	50	37	2,85	204,850	205,028	50	38	2,94
141,550	141,750	50	28	2,15					
141,750	141,950	50	29	2,21	247,600	247,800	50	41	3,14
141,950	141,975	50	56	4,30	247,800	248,000	50	42	3,20
					248,000	248,200	80	19	1,47
143,950	144,150	50	36	2,79	248,200	248,400	80	23	1,76

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Faixas Adicionais			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
248,400	248,600	80	22	1,69	278,600	278,800	50	36	2,79
248,600	248,800	80	24	1,83	278,800	279,000	50	50	3,84
248,800	249,000	80	26	1,98	279,000	279,200	50	57	4,42
249,000	249,200	80	30	2,27	279,200	279,400	50	52	4,01
249,200	249,400	80	24	1,83	279,400	279,600	50	54	4,19
249,400	249,600	80	25	1,91	279,600	279,800	50	52	4,01
249,600	249,800	80	35	2,71	279,800	280,000	50	51	3,90
249,800	250,000	80	28	2,13	280,000	280,008	50	51	3,95
250,000	250,200	80	28	2,13					
250,200	250,400	80	31	2,35	281,950	282,150	30	23	1,76
250,400	250,600	80	25	1,91	282,150	282,350	50	28	2,15
250,600	250,800	80	31	2,35	282,350	282,550	50	29	2,27
250,800	251,000	80	23	1,76	282,550	282,750	50	26	2,03
251,000	251,200	80	26	1,98	282,750	282,857	50	25	1,91
251,200	251,400	80	31	2,42					
251,400	251,600	80	61	4,69	289,700	289,900	30	32	2,49
251,600	251,800	80	49	3,74	289,900	290,100	30	34	2,58
251,800	251,935	50	60	4,58	290,100	290,300	50	32	2,44
					290,300	290,500	50	37	2,85
253,250	253,450	50	37	2,85	290,500	290,700	50	42	3,20
253,450	253,650	50	45	3,43	290,700	290,900	50	43	3,31
253,650	253,850	50	41	3,14	290,900	291,100	50	47	3,61
253,850	254,050	50	35	2,67	291,100	291,300	50	41	3,14
254,050	254,250	50	38	2,91	291,300	291,500	50	34	2,62
254,250	254,449	50	38	2,92	291,500	291,700	50	43	3,31
					291,700	291,900	50	42	3,20
276,200	276,400	30	29	2,22	291,900	292,090	30	45	3,43
276,400	276,600	50	36	2,73					
276,600	276,800	50	36	2,79	293,400	293,600	30	38	2,95
276,800	277,000	50	37	2,85	293,600	293,800	30	37	2,81
277,000	277,200	50	37	2,85	293,800	294,000	30	35	2,72
277,200	277,400	50	36	2,73	294,000	294,200	30	36	2,78
277,400	277,600	50	35	2,67					
277,600	277,800	50	32	2,44	296,200	296,400	50	35	2,67
277,800	278,000	50	40	3,08	296,400	296,600	50	34	2,62
278,000	278,200	50	75	5,76	296,600	296,800	50	37	2,85
278,200	278,400	50	69	5,29	296,800	297,000	50	34	2,62
278,400	278,600	50	47	3,61	297,000	297,137	50	43	3,34

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Faixas Adicionais			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
300,200	300,400	30	34	2,63	453,900	454,100	50	50	3,84
300,400	300,600	50	31	2,38	454,100	454,300	50	47	3,61
300,600	300,687	50	43	3,32	454,300	454,500	50	49	3,78
					454,500	454,700	50	54	4,13
301,300	301,500	50	38	2,91	454,700	454,900	50	64	4,89
301,500	301,604	50	41	3,17	454,900	455,100	50	42	3,26
					455,100	455,107	50	57	4,37
424,300	424,500	30	31	2,35					
424,500	424,700	50	36	2,73	455,800	456,000	50	73	5,59
424,700	424,900	80	45	3,45	456,000	456,200	50	89	6,87
424,900	425,100	80	43	3,30	456,200	456,400	50	69	5,29
425,100	425,300	80	39	3,01	456,400	456,600	50	78	5,99
425,300	425,500	80	36	2,79	456,600	456,800	50	82	6,28
425,500	425,700	80	33	2,57	456,800	457,000	50	70	5,35
425,700	425,900	80	32	2,49	457,000	457,200	50	77	5,93
425,900	426,100	80	38	2,93	457,200	457,400	50	82	6,28
426,100	426,300	80	38	2,93	457,400	457,600	50	75	5,76
426,300	426,500	80	41	3,15	457,600	457,800	50	89	6,87
426,500	426,700	80	45	3,45	457,800	458,000	50	73	5,64
426,700	426,900	80	55	4,25	458,000	458,017	50	40	3,10
426,900	427,100	80	38	2,93					
427,100	427,300	80	51	3,96	459,550	459,750	50	64	4,89
427,300	427,398	50	52	4,01	459,750	459,950	50	70	5,41
					459,950	460,150	50	52	4,01
438,900	439,100	30	43	3,27	460,150	460,350	50	85	6,52
439,100	439,300	50	45	3,43	460,350	460,403	50	68	5,22
439,300	439,500	50	59	4,54					
439,500	439,700	50	31	2,38	462,950	463,150	50	28	2,15
439,700	439,900	50	62	4,77	463,150	463,350	50	56	4,30
439,900	440,100	50	57	4,42	463,350	463,550	50	55	4,25
440,100	440,176	50	69	5,33	463,550	463,750	50	85	6,58
					463,750	463,950	50	95	7,27
448,900	449,100	30	45	3,45	463,950	464,150	50	100	7,68
449,100	449,300	50	80	6,17	464,150	464,350	50	73	5,59
449,300	449,500	50	76	5,82	464,350	464,550	50	60	4,60
449,500	449,700	50	82	6,28	464,550	464,750	50	51	3,90
449,700	449,732	50	47	3,59	464,750	464,950	50	50	3,84
					464,950	465,052	50	45	3,44

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Faixas Adicionais			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
466,800	467,000	50	54	4,13	484,200	484,400	50	70	5,41
467,000	467,200	50	39	3,02	484,400	484,600	50	77	5,93
467,200	467,236	50	35	2,66	484,600	484,800	50	69	5,29
					484,800	485,000	50	58	4,48
469,300	469,500	50	39	3,02	485,000	485,200	50	57	4,36
469,500	469,700	50	49	3,78	485,200	485,395	50	53	4,09
469,700	469,900	50	54	4,19					
469,900	470,077	30	61	4,73	544,000	544,200	50	30	2,32
					544,200	544,400	80	51	3,96
473,350	473,550	50	28	2,15	544,400	544,600	80	47	3,59
473,550	473,750	50	28	2,15	544,600	544,800	80	43	3,30
473,750	473,950	50	26	2,03	544,800	545,000	80	58	4,47
473,950	474,150	50	23	1,80	545,000	545,200	80	72	5,57
474,150	474,350	50	30	2,32	545,200	545,400	80	44	3,37
474,350	474,550	50	27	2,09	545,400	545,600	80	38	2,93
474,550	474,750	50	33	2,56	545,600	545,800	80	49	3,74
474,750	474,950	80	31	2,42	545,800	546,000	80	44	3,37
474,950	475,150	80	39	3,01	546,000	546,200	80	36	2,79
475,150	475,350	80	26	1,98	546,200	546,400	80	21	1,61
475,350	475,550	80	22	1,69	546,400	546,600	80	43	3,30
475,550	475,562	80	24	1,81	546,600	546,800	80	71	5,43
					546,800	547,000	80	30	2,27
478,750	478,950	50	45	3,49	547,000	547,200	80	31	2,42
478,950	479,150	50	42	3,20	547,200	547,400	80	56	4,33
479,150	479,350	50	82	6,34	547,400	547,600	80	48	3,67
479,350	479,550	50	80	6,17	547,600	547,800	80	40	3,08
479,550	479,750	50	64	4,89	547,800	548,000	80	36	2,79
479,750	479,900	50	80	6,17	548,000	548,200	80	43	3,30
					548,200	548,400	80	50	3,81
482,400	482,600	50	80	6,17	548,400	548,600	80	63	4,84
482,600	482,800	50	61	4,65	548,600	548,800	80	41	3,15
482,800	483,000	50	78	5,99	548,800	549,000	80	46	3,52
483,000	483,200	50	83	6,40	549,000	549,200	80	26	1,98
483,200	483,400	50	64	4,94	549,200	549,400	80	29	2,20
483,400	483,600	50	71	5,47	549,400	549,420	80	27	2,05
483,600	483,800	50	65	5,00					
483,800	484,000	50	77	5,93					
484,000	484,200	50	65	5,00					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Faixas Adicionais			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
DECRESCENTE					462,550	462,350	30	72	5,52
					462,350	462,150	50	99	7,62
551,200	551,000	50	26	1,97	462,150	461,950	50	92	7,10
551,000	550,800	80	19	1,47	461,950	461,750	50	95	7,27
550,800	550,600	80	19	1,47	461,750	461,550	50	67	5,12
550,600	550,400	80	24	1,83	461,550	461,350	50	89	6,81
550,400	550,200	80	31	2,42	461,350	461,150	50	99	7,62
550,200	550,000	80	31	2,42	461,150	460,950	50	92	7,10
550,000	549,800	80	28	2,13	460,950	460,750	50	117	8,96
549,800	549,600	80	52	4,03	460,750	460,550	50	120	9,25
549,600	549,400	80	29	2,20	460,550	460,350	50	112	8,61
549,400	549,200	80	34	2,64	460,350	460,180	50	110	8,44
549,200	549,000	80	57	4,40					
549,000	548,800	80	32	2,49	459,400	459,200	50	32	2,50
548,800	548,600	80	41	3,15	459,200	459,000	50	74	5,70
548,600	548,400	80	42	3,23	459,000	458,800	50	60	4,60
548,400	548,200	50	35	2,67	458,800	458,600	50	83	6,40
548,200	548,000	50	36	2,79	458,600	458,400	50	84	6,46
548,000	547,800	80	51	3,89	458,400	458,230	50	36	2,77
547,800	547,600	80	49	3,74					
547,600	547,400	80	39	3,01	438,750	438,550	50	27	2,09
547,400	547,200	80	37	2,86	438,550	438,350	50	44	3,37
547,200	547,000	80	48	3,67	438,350	438,150	50	54	4,13
547,000	546,800	80	36	2,79	438,150	437,950	50	64	4,89
546,800	546,600	80	55	4,25	437,950	437,750	50	55	4,25
546,600	546,400	80	54	4,18	437,750	437,550	50	83	6,40
546,400	546,200	80	30	2,27	437,550	437,350	50	58	4,48
546,200	546,000	80	34	2,64	437,350	437,207	50	58	4,46
546,000	545,800	80	26	1,98					
545,800	545,600	80	34	2,64	423,360	423,400	30	36	2,78
545,600	545,400	80	53	4,11	423,400	423,600	30	54	4,19
545,400	545,200	80	45	3,45	423,600	423,800	30	51	3,96
545,200	545,000	80	33	2,57	423,800	423,920	30	60	4,60
545,000	544,800	80	31	2,38					
544,800	544,600	80	32	2,46					
544,600	544,400	80	29	2,23					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA			PISTA		LADO / FAIXA			DATA	
BR-040 / MG			km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		Faixas Adicionais			jan/2007	
INÍCIO					FINAL				
km 0,000					km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
332,500	332,300	50	33	2,56	293,200	293,000	50	34	2,62
332,300	332,100	80	31	2,35	293,000	292,800	50	37	2,85
332,100	331,900	80	23	1,76	292,800	292,600	50	33	2,56
331,900	331,700	80	34	2,64	292,600	292,400	50	44	3,37
331,700	331,500	80	37	2,86	292,400	292,200	50	36	2,79
331,500	331,300	80	38	2,93	292,200	292,000	50	34	2,62
331,300	331,100	80	36	2,79	292,000	291,800	50	33	2,56
331,100	330,900	80	37	2,86	291,800	291,640	50	32	2,44
330,900	330,700	80	37	2,86					
330,700	330,500	80	42	3,23	289,650	289,450	50	39	3,02
330,500	330,300	80	47	3,59	289,450	289,250	50	32	2,50
330,300	330,100	80	41	3,15	289,250	289,050	50	36	2,79
330,100	329,900	80	38	2,93	289,050	288,936	50	49	3,80
329,900	329,700	80	34	2,64					
329,700	329,500	80	33	2,57	288,050	287,850	30	32	2,44
329,500	329,300	80	38	2,93	287,850	287,849	50	47	3,62
329,300	329,100	80	41	3,15					
329,100	328,900	80	38	2,93	287,000	286,800	30	38	2,95
328,900	328,700	80	39	3,01	286,800	286,600	30	31	2,40
328,700	328,500	80	37	2,86	286,600	286,468	30	30	2,29
328,500	328,300	80	37	2,86					
328,300	328,160	80	36	2,73	269,950	269,750	30	41	3,13
					269,750	269,550	50	37	2,85
299,760	299,700	80	31	2,35	269,550	269,350	30	40	3,09
299,700	299,520	80	36	2,80	269,350	269,150	30	38	2,90
					269,150	268,950	50	43	3,31
296,000	295,800	80	33	2,57	268,950	268,750	50	76	5,82
295,800	295,600	80	31	2,42	268,750	268,550	50	54	4,19
295,600	295,400	80	30	2,27	268,550	268,350	50	39	3,02
295,400	295,200	80	28	2,13	268,350	268,150	50	62	4,77
295,200	295,160	80	33	2,50	268,150	267,950	50	64	4,94
					267,950	267,750	30	55	4,24
294,400	294,250	30	40	3,09	267,750	267,550	30	44	3,41
294,250	294,050	30	36	2,77	267,550	267,350	30	53	4,05
294,050	294,000	50	35	2,67					

IRREGULARIDADE LONGITUDINAL - QI									
RODOVIA BR-040 / MG			PISTA km 0,0 ao km 470 - Simples km 470,0 ao km 773 - Dupla		LADO / FAIXA Faixas Adicionais			DATA jan/2007	
INÍCIO km 0,000					FINAL km 773,400				
Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI	Km INICIAL	Km FINAL	V (km/h)	QI (cont.)	IRI
252,500	252,300	30	36	2,77	203,750	203,550	30	39	3,00
252,300	252,132	50	42	3,19	203,550	203,350	50	47	3,61
					203,350	203,150	80	47	3,59
247,350	247,150	50	51	3,90	203,150	203,000	80	43	3,27
247,150	246,950	50	51	3,95					
246,950	246,750	80	39	3,01	193,800	193,600	50	33	2,56
246,750	246,550	80	41	3,15	193,600	193,400	50	39	2,96
246,550	246,350	80	49	3,74	193,400	193,200	80	46	3,52
246,350	246,150	80	55	4,25	193,200	193,000	80	31	2,42
246,150	245,950	80	49	3,74	193,000	192,800	80	36	2,79
245,950	245,750	80	51	3,89	192,800	192,684	80	49	3,75
245,750	245,550	80	67	5,13					
245,550	245,350	80	86	6,60	179,700	179,500	50	36	2,79
245,350	245,150	80	47	3,59	179,500	179,300	50	43	3,31
245,150	244,950	80	78	6,01	179,300	179,100	50	42	3,20
244,950	244,750	80	92	7,04	179,100	178,900	50	36	2,79
244,750	244,550	80	75	5,79	178,900	178,755	50	35	2,73
244,550	244,350	80	47	3,59					
244,350	244,150	80	55	4,25	175,650	175,450	50	32	2,44
244,150	243,950	80	79	6,09	175,450	175,250	50	25	1,92
243,950	243,750	30	70	5,38	175,250	175,050	50	23	1,80
243,750	243,570	30	47	3,65	175,050	174,850	50	23	1,80
					174,850	174,650	50	23	1,80
235,850	235,650	30	35	2,67	174,650	174,450	50	22	1,68
235,650	235,450	50	35	2,67	174,450	174,250	50	23	1,80
235,450	235,250	80	33	2,57	174,250	174,200	50	26	1,97
235,250	235,050	80	30	2,27					
235,050	234,850	80	30	2,27	55,800	55,600	50	29	2,27
234,850	234,833	80	30	2,31	55,600	55,400	50	31	2,38
					55,400	55,200	50	29	2,27
214,000	213,800	30	38	2,90	55,200	55,000	50	26	1,97
213,800	213,600	50	48	3,72	55,000	54,800	50	26	2,03
213,600	213,400	50	48	3,66	54,800	54,600	50	25	1,92
213,400	213,200	50	39	3,02	54,600	54,500	50	27	2,08
213,200	213,000	80	39	3,01					
213,000	212,800	80	34	2,64					
212,800	212,600	80	31	2,42					
212,600	212,586	80	21	1,63					

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

RESUMO ESTATÍSTICO DA IRREGULARIDADE LONGITUDINAL

RODOVIA BR-040 / MG (km 0,000 ao km 771,100)

