

## Tabellen zur Rückklippung einfach gekippter Schrägschichtungen

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Die Tabellen bieten die Möglichkeit, im Gelände rasch die wahre Schüttungs- (und damit auch in den meisten Fällen Strömungs-)richtung an tektonisch verstellten, schräg geschichteten Sedimentgesteinen zu ermitteln. Diese als  $\gamma_0$  bezeichnete Größe stellt die Fallrichtung einer Schrägschichtung vor dem tektonischen Ereignis dar. Sie wird mit Hilfe dieser Tabelle aus dem Einfallen der gekippten Schrägschichtung S ( $\gamma/\delta$ ) gewonnen. Voraussetzung dazu ist die Möglichkeit, auch das Einfallen einer durch das gleiche tektonische Ereignis mitgekippten ehemaligen Horizontalschichtung H ( $\alpha/\beta$ ) zu messen. Die vorliegenden Tabellen bieten die Möglichkeit, aus dem gewonnenen Wertequadrupel  $\alpha, \beta, \gamma, \delta$  den Wert  $\gamma_0$  zu ermitteln.

Bisher wurden derartige Ermittlungen graphisch unter Zuhilfenahme des WULF-schen Netzes angestellt. Diese sind jedoch häufig aus Witterungsgründen auf diese Weise nur schwer im Gelände durchführbar und meistens verhältnismäßig ungenau. Die Ermittlung durch die Tabelle bietet gegenüber der graphischen Methode außerdem den Vorteil einer wesentlich rascheren Arbeitsweise.

Die Tabellen beruhen auf folgenden Voraussetzungen:

- Wenn  $S_0$  ( $\gamma_0/\delta_0$ ) die ungekippte Schrägschichtung darstellt, ist  $\gamma_0$  die wahre Fließrichtung.
- Es erfolgte nur eine oder mehrere in dieselbe oder die genau entgegengesetzte Richtung.

#### Anleitung zur Handhabung der Tabellen

Will man das ursprüngliche Einfallen einer gekippten Schrägschichtung vor der Kippung feststellen, mißt man zunächst das Einfallen dieser Schrägschichtung und das einer mit dieser in Kontakt stehenden gekippten Horizontalschichtung. Dadurch gewinnt man die Werte  $\alpha$  (Fallrichtung der gekippten Horizontale),  $\beta$  (Fallwinkel der gekippten Horizontale),  $\gamma$  (Fallrichtung der gekippten Schrägschichtung) und  $\delta$  (Fallwinkel der gekippten Schrägschichtung). Nun bildet man die Differenz von  $\gamma - \alpha$  und schlägt die jeweilige Tabelle auf. Der Kreuzungspunkt der Rubriken  $\beta$  und  $\delta$  läßt den Wert  $\gamma_0 - \alpha$  erkennen. Nun muß man nur mehr  $\alpha$  zu diesem Wert hinzuzählen und erhält  $\gamma_0$  (die ursprüngliche Fallrichtung der ungekippten Schrägschichtung = ursprüngliche Strömungsrichtung).

Die Tabellen sind nur für die Werte  $0 < \gamma - \alpha < 180$  erstellt. Hat man nun einen Wert für  $\gamma - \alpha$ , der außerhalb dieses Bereiches liegt und positiv ist, ist dieser Wert von 360 zu subtrahieren. Man erhält nun den Wert  $(\gamma - \alpha)'$ . Jetzt sucht man wieder die jeweilige Tabelle und kreuzt wieder die Rubriken  $\beta$  und  $\delta$ . Man erhält als Ergebnis einen Wert, für den gilt:

$$-(\gamma_0 - \alpha)' = \alpha - \gamma_0 \Rightarrow \alpha - (\gamma_0 - \alpha)' = \gamma_0 \text{ (ursprüngliche Fließrichtung).}$$

Ist  $\gamma - \alpha$  negativ, wird dieser Wert mit  $-1$  multipliziert und wieder die jeweilige Tabelle aufgeschlagen. Man erhält den Wert  $-(\gamma_0 - \alpha)$ , für den gilt:

$$-(\gamma_0 - \alpha) = \alpha - \gamma_0 \Rightarrow \gamma_0 = (-(\gamma_0 - \alpha))(-1) + \alpha.$$

Man multipliziert also den Ergebniswert mit  $-1$  und zählt  $\alpha$  dazu. Dadurch erhält man  $\gamma_0$ .

Die im Gelände zu ermittelnden Werte sind in der Tabelle in Abständen von 5 Altgrad angeführt. Dies deswegen, weil ja die Ermittlung des Einfallens einer Fläche mittels eines Geologenkompasses besonders an grobklastischen Sedimenten ohnehin mit einer Meßgenauigkeit von mindestens  $\pm 2,5$  Grad verbunden ist. Die Ergebniswerte sind deshalb auf 0,1 Grad genau angegeben, damit bei einer eventuellen Ermittlung der Varianz kein zusätzlicher als der Meßfehler in Kauf genommen werden muß. Wir empfehlen selbstverständlich eine Rundung der Ergebniswerte nach Bedarf.

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 5.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	92.5	9.9	7.4	5.6	6.2	5.9	5.7	5.6	5.5
10.0	175.0	92.5	14.7	9.6	8.1	7.3	6.6	6.4	6.2
15.0	177.5	170.2	92.4	19.1	12.1	9.5	8.4	7.6	7.1
20.0	178.3	175.0	155.6	92.3	23.3	14.2	11.0	9.4	8.3
25.0	178.7	176.7	172.6	161.4	92.3	27.3	16.2	12.3	10.3
30.0	179.0	177.5	175.0	170.3	157.4	92.2	30.4	18.1	13.5
35.0	179.1	178.0	176.2	173.5	158.1	153.5	92.0	33.3	19.8
40.0	179.2	178.3	177.0	175.0	171.9	166.0	150.6	91.9	35.9
45.0	179.3	178.5	177.4	176.0	173.9	170.5	164.1	147.8	91.8
50.0	179.4	178.7	177.8	176.6	175.0	172.5	169.1	162.3	145.3
55.0	179.4	178.8	178.0	177.0	175.8	174.1	171.7	167.9	160.6
60.0	179.5	178.9	178.2	177.3	176.3	175.0	173.3	170.7	166.7
65.0	179.5	178.9	178.3	177.6	176.7	175.7	174.3	172.5	169.8
70.0	179.5	179.0	178.4	177.8	177.0	176.1	175.0	173.6	171.7
75.0	179.5	179.0	178.5	177.9	177.2	176.5	175.6	174.4	173.0
80.0	179.5	179.1	178.5	178.0	177.4	176.7	176.0	175.0	173.9
85.0	179.6	179.1	178.6	178.1	177.5	177.0	176.3	175.5	174.5
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.6	85.0	90.0
5.0	5.4	5.3	5.3	5.2	5.2	5.1	5.1	5.1	5.0
10.0	6.0	5.8	5.7	5.5	5.4	5.3	5.2	5.2	5.1
15.0	6.7	6.4	6.1	5.9	5.7	5.6	5.4	5.3	5.2
20.0	7.6	7.1	6.7	6.4	6.1	5.9	5.7	5.5	5.3
25.0	9.0	8.2	7.5	7.0	6.6	6.3	6.0	5.7	5.5
30.0	11.1	9.6	8.5	7.9	7.3	6.8	6.4	6.1	5.8
35.0	14.6	11.9	10.2	9.0	8.2	7.5	7.0	6.5	6.1
40.0	21.3	15.6	12.5	10.7	9.4	8.4	7.6	7.0	6.5
45.0	38.1	22.6	16.4	13.1	11.0	9.5	8.5	7.7	7.1
50.0	91.6	40.0	23.8	17.1	13.6	11.3	9.8	8.6	7.8
55.0	143.1	91.4	41.5	24.5	17.7	13.9	11.3	9.9	8.7
60.0	159.1	141.2	91.3	42.8	25.5	18.1	14.2	11.7	9.9
65.0	165.6	157.8	139.6	91.1	43.7	26.1	18.5	14.3	11.7
70.0	169.0	164.6	156.6	138.2	90.9	44.4	26.5	18.5	14.3
75.0	171.0	168.2	163.8	155.7	137.1	90.6	44.9	26.7	18.7
80.0	172.4	170.4	167.6	163.1	154.8	136.2	99.4	45.1	26.7
85.0	173.4	171.9	169.9	167.0	152.5	254.2	135.5	90.2	45.1

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 10.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	95.0	19.6	14.8	13.2	12.3	11.8	11.5	11.2	11.0
10.0	170.3	94.9	28.4	19.4	16.2	14.5	13.5	12.8	12.3
15.0	175.1	161.4	94.8	35.9	23.7	19.0	16.6	15.1	14.1
20.0	176.7	170.3	153.7	94.7	42.1	27.5	21.7	18.5	16.6
25.0	177.5	173.4	165.8	147.1	94.5	47.2	31.0	24.1	20.3
30.0	178.0	175.0	170.3	161.6	141.6	94.3	51.4	34.0	26.2
35.0	178.3	175.9	172.6	167.3	157.7	137.1	94.1	54.7	36.7
40.0	178.5	176.6	174.0	170.3	164.5	154.2	133.3	93.8	57.3
45.0	178.7	177.0	174.9	172.1	168.0	161.8	151.0	130.1	93.5
50.0	178.8	177.3	175.5	173.3	170.2	165.9	159.4	148.2	127.5
55.0	178.9	177.6	176.0	174.1	171.7	168.5	164.0	157.1	145.7
60.0	178.9	177.7	176.4	174.7	172.7	170.2	166.9	162.2	155.1
65.0	179.0	177.9	176.6	175.2	173.5	171.4	168.8	165.3	160.5
70.0	179.0	178.0	176.9	175.6	174.1	172.3	170.2	167.5	163.9
75.0	179.1	178.1	177.0	175.9	174.5	173.0	171.2	169.0	166.3
80.0	179.1	178.2	177.2	176.1	174.9	173.5	172.0	170.2	168.0
85.0	179.1	178.2	177.3	176.3	175.2	174.0	172.6	171.0	169.2
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	10.8	10.7	10.6	10.5	10.4	10.3	10.2	10.1	10.0
10.0	11.9	11.6	11.3	11.1	10.8	10.7	10.5	10.3	10.2
15.0	13.3	12.7	12.2	11.8	11.5	11.1	10.9	10.6	10.3
20.0	15.2	14.2	13.4	12.8	12.2	11.8	11.3	11.0	10.6
25.0	17.9	16.2	15.0	14.0	13.2	12.6	12.0	11.5	11.0
30.0	21.8	19.1	17.1	15.7	14.5	13.6	12.8	12.1	11.5
35.0	28.1	23.2	20.1	17.8	16.2	14.9	13.8	12.9	12.1
40.0	38.9	29.7	24.4	20.9	18.5	16.6	15.2	14.0	13.0
45.0	59.3	40.8	31.1	25.3	21.6	18.9	16.9	15.3	14.0
50.0	93.2	60.9	42.3	32.2	26.1	22.1	19.2	17.1	15.3
55.0	125.2	92.9	62.1	43.5	33.1	26.7	22.4	19.4	17.1
60.0	143.5	123.3	92.5	63.0	44.4	33.7	27.1	22.6	19.4
65.0	153.2	141.5	121.7	92.1	63.6	45.0	34.1	27.3	22.6
70.0	159.0	151.6	139.8	120.3	91.7	63.9	45.4	34.3	27.3
75.0	162.6	157.6	150.2	138.4	119.1	91.3	64.0	45.5	34.3
80.0	165.2	161.5	156.4	148.9	137.2	118.1	90.9	64.0	45.4
85.0	167.0	164.2	160.5	155.4	147.9	136.2	117.4	90.4	63.7

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 15.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	97.5	28.9	22.1	19.7	18.5	17.7	17.2	16.8	16.5
10.0	165.9	97.4	40.5	28.6	24.1	21.7	20.2	19.2	18.4
15.0	172.7	154.2	97.2	49.4	34.4	28.1	24.7	22.5	21.0
20.0	175.1	165.9	144.9	97.1	56.1	39.4	31.7	27.4	24.6
25.0	176.3	170.3	159.8	137.8	96.8	61.0	43.6	34.6	29.8
30.0	177.0	172.0	165.9	154.3	132.3	96.5	64.7	47.1	37.6
35.0	177.4	174.0	169.1	161.7	149.5	128.0	96.2	67.4	49.9
40.0	177.8	174.9	171.1	165.8	157.9	145.3	124.5	95.8	69.4
45.0	178.0	175.6	172.5	168.4	152.7	154.5	141.6	121.7	95.3
50.0	178.2	176.0	173.4	170.1	165.8	159.9	151.3	138.5	119.3
55.0	178.3	176.4	174.1	171.3	157.9	163.3	157.2	148.5	135.7
60.0	178.4	176.7	174.6	172.2	159.3	165.7	161.1	154.8	146.0
65.0	178.5	176.9	175.0	172.9	170.4	167.4	163.7	158.9	152.5
70.0	178.6	177.0	175.3	173.4	171.3	168.7	165.6	161.8	157.0
75.0	178.6	177.2	175.2	175.6	173.9	171.9	169.7	164.0	160.1
80.0	178.7	177.3	175.8	174.2	172.4	170.4	168.2	165.6	162.4
85.0	178.7	177.3	175.9	174.4	172.4	171.0	169.1	166.8	164.2
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	16.2	16.0	18.8	15.7	15.5	15.4	15.3	15.2	15.1
10.0	17.8	17.3	16.9	16.6	16.2	16.0	15.7	15.5	15.2
15.0	19.9	19.0	18.3	17.7	17.1	16.7	16.3	15.9	15.5
20.0	22.6	21.2	20.0	19.1	18.3	17.6	17.0	16.4	15.9
25.0	26.4	24.1	22.3	20.9	19.7	18.8	17.9	17.2	16.5
30.0	31.8	28.0	25.3	23.2	21.6	20.2	19.1	18.1	17.2
35.0	39.9	33.6	29.4	26.3	24.0	22.1	20.6	19.3	18.1
40.0	52.2	41.8	35.1	30.5	27.1	24.5	22.4	20.7	19.3
45.0	70.9	54.0	43.3	36.2	31.3	27.7	24.9	22.6	20.8
50.0	94.8	71.9	55.4	44.5	37.1	31.9	28.0	25.0	22.6
55.0	117.3	94.3	72.6	56.4	45.3	37.7	32.3	28.2	25.0
60.0	133.3	115.5	93.8	73.0	57.1	45.9	38.1	32.4	28.2
65.0	143.7	131.2	114.0	93.2	73.2	57.4	46.2	38.2	32.4
70.0	150.5	141.7	129.3	112.6	92.6	73.1	57.5	46.2	38.1
75.0	155.2	148.7	139.9	127.8	111.4	92.0	72.9	57.4	46.0
80.0	158.5	153.6	147.2	138.4	126.4	110.4	91.3	72.5	57.1
85.0	161.0	157.1	152.2	145.8	137.1	125.2	109.5	90.7	72.0

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 20.0

DELTA		5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
BETA:										
5.0		100.0	37.7	29.2	26.1	24.5	23.5	22.9	22.3	21.9
10.0		162.1	99.9	51.0	37.3	31.7	28.7	26.8	25.5	24.5
15.0		170.5	148.6	99.7	60.1	44.1	36.7	32.4	29.7	27.8
20.0		173.6	162.1	139.0	99.4	56.4	49.6	40.9	35.7	32.3
25.0		175.1	167.5	154.8	132.1	99.1	70.7	54.0	44.5	38.6
30.0		176.0	170.4	162.0	148.6	127.1	98.7	73.7	57.5	47.5
35.0		176.6	172.2	166.0	157.0	143.4	123.2	98.2	75.9	60.2
40.0		177.0	173.3	168.5	161.9	152.6	139.0	120.1	97.7	77.3
45.0		177.4	174.2	170.2	165.0	158.1	148.6	135.3	117.5	97.1
50.0		177.6	174.8	171.4	167.2	161.8	154.7	145.1	132.1	115.3
55.0		177.8	175.2	172.3	168.7	164.3	158.8	151.5	142.0	129.3
60.0		177.9	175.6	172.9	169.8	166.2	161.6	156.0	148.7	139.2
65.0		178.0	175.9	173.5	170.7	167.5	163.7	159.1	153.4	146.1
70.0		178.1	176.1	173.9	171.4	168.6	165.3	161.5	156.8	151.1
75.0		178.2	176.3	174.2	171.9	169.4	166.5	163.2	159.4	154.7
80.0		178.2	176.4	174.4	172.3	170.0	167.5	164.6	161.3	157.4
85.0		178.3	176.5	174.6	172.7	170.5	168.2	165.7	162.8	159.5
DELTA		50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
BETA:										
5.0		21.6	21.3	21.1	20.9	20.7	20.5	20.4	20.2	20.1
10.0		23.7	23.0	22.5	22.0	21.6	21.3	20.9	20.6	20.3
15.0		26.4	25.2	24.3	23.5	22.8	22.2	21.6	21.1	20.6
20.0		29.8	28.0	26.5	25.3	24.3	23.4	22.6	21.8	21.2
25.0		34.5	31.6	29.4	27.6	26.1	24.9	23.8	22.8	21.9
30.0		40.9	36.4	33.1	30.5	28.4	26.7	25.2	23.9	22.8
35.0		49.9	42.9	37.9	34.3	31.4	29.0	27.1	25.4	24.0
40.0		62.2	51.7	44.4	39.1	35.1	32.0	29.4	27.3	25.4
45.0		78.3	63.7	53.2	45.6	40.0	35.8	32.4	29.6	27.2
50.0		96.5	78.8	64.7	54.2	46.4	40.6	36.1	32.5	29.5
55.0		113.5	95.8	79.1	65.3	54.8	47.0	40.9	36.2	32.4
60.0		126.9	111.8	95.0	79.1	65.7	55.2	47.2	41.0	36.1
65.0		136.7	124.8	110.2	94.3	78.9	65.7	55.2	47.1	40.7
70.0		143.8	134.5	122.9	108.9	93.5	78.5	65.5	55.0	46.8
75.0		148.9	141.7	132.6	121.2	107.6	92.6	78.0	65.1	54.6
80.0		152.7	147.0	139.8	130.9	119.7	106.4	91.8	77.3	64.5
85.0		155.6	150.9	145.3	138.2	129.4	118.4	105.3	90.9	76.5

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 25.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	102.5	46.0	36.2	32.5	30.6	29.3	28.5	27.9	27.4
10.0	158.8	102.3	60.0	45.5	39.1	35.5	33.3	31.7	30.5
15.0	168.5	144.5	102.1	68.8	52.8	44.7	39.9	36.7	34.4
20.0	172.1	158.8	135.1	101.8	74.4	58.5	49.3	43.6	39.7
25.0	174.0	165.0	150.8	128.8	101.4	78.1	62.7	53.1	46.7
30.0	175.1	168.4	158.6	144.3	124.2	100.9	80.5	65.9	56.0
35.0	175.8	170.4	163.2	153.1	139.1	120.7	100.3	82.1	68.2
40.0	176.4	171.9	166.1	158.5	148.3	134.8	117.9	99.6	83.1
45.0	176.7	172.9	168.1	162.0	154.2	144.1	131.1	115.5	98.9
50.0	177.0	173.6	169.5	164.5	158.3	150.4	140.4	128.0	113.5
55.0	177.3	174.2	170.5	166.3	161.1	154.8	147.0	137.2	125.3
60.0	177.4	174.6	171.4	167.6	163.2	158.0	151.7	143.9	134.3
65.0	177.6	174.9	172.0	168.7	164.8	160.4	155.1	148.8	141.1
70.0	177.7	175.2	172.5	169.5	166.1	162.2	157.7	152.4	146.1
75.0	177.8	175.4	172.9	170.1	167.0	163.6	159.7	155.2	150.0
80.0	177.8	175.5	173.1	170.6	167.8	164.7	161.3	157.4	152.9
85.0	177.9	175.7	173.4	171.0	168.4	165.6	162.5	159.1	155.3
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	27.0	26.7	26.4	26.1	25.9	25.7	25.5	25.3	25.1
10.0	29.5	28.7	28.1	27.5	27.0	26.5	26.1	25.7	25.3
15.0	32.7	31.3	30.2	29.2	28.4	27.7	27.0	26.4	25.8
20.0	36.8	34.6	32.9	31.4	30.2	29.1	28.1	27.2	26.4
25.0	42.2	38.8	36.2	34.1	32.3	30.8	29.5	28.3	27.2
30.0	49.2	44.2	40.4	37.5	35.0	33.0	31.2	29.7	28.3
35.0	58.3	51.1	45.8	41.7	38.4	35.7	33.4	31.4	29.7
40.0	69.9	60.0	52.6	47.0	42.6	39.0	36.0	33.5	31.3
45.0	83.6	71.0	61.2	53.6	47.8	43.1	39.3	36.1	33.4
50.0	98.1	83.8	71.6	61.9	54.3	48.2	43.4	39.3	36.0
55.0	111.6	97.2	83.7	71.9	62.3	54.6	48.4	43.3	39.1
60.0	122.9	109.9	96.3	83.3	71.9	62.4	54.6	48.2	43.0
65.0	131.8	120.8	108.4	95.4	82.8	71.6	62.2	54.3	47.8
70.0	138.5	129.5	118.8	106.9	94.3	82.2	71.2	61.7	53.7
75.0	143.7	136.3	127.4	117.1	105.5	93.3	81.4	70.5	61.0
80.0	147.7	141.5	134.2	125.5	115.4	104.1	92.2	80.4	69.6
85.0	150.8	145.7	139.6	132.4	123.9	114.0	102.9	91.1	79.4

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 30.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	104.9	53.6	42.9	38.7	36.5	35.1	34.1	33.4	32.8
10.0	156.2	104.8	67.7	53.1	46.1	42.2	39.6	37.7	36.4
15.0	166.7	141.6	104.5	75.9	60.6	52.2	47.0	43.4	40.9
20.0	170.8	156.1	132.8	104.1	80.9	66.1	56.9	50.9	46.7
25.0	173.0	162.8	147.7	127.0	103.6	84.0	70.1	60.6	54.1
30.0	174.2	166.5	155.9	141.3	122.8	103.1	85.9	72.9	63.4
35.0	175.1	168.9	160.7	150.0	136.2	119.6	102.4	87.0	74.8
40.0	175.7	170.5	163.9	155.6	145.0	132.0	117.0	101.6	87.6
45.0	176.2	171.6	166.1	159.4	151.1	140.8	128.5	114.7	100.7
50.0	176.5	172.5	167.7	162.1	155.3	147.0	137.1	125.5	112.7
55.0	176.8	173.1	169.0	164.1	158.4	151.5	143.4	133.8	122.8
60.0	177.0	173.6	169.9	165.6	150.7	154.9	148.1	140.2	130.9
65.0	177.1	174.0	170.6	166.8	162.4	157.4	151.7	145.0	137.2
70.0	177.3	174.3	171.1	167.7	163.8	159.4	154.4	148.7	142.2
75.0	177.4	174.6	171.6	168.4	164.9	161.0	156.6	151.7	146.0
80.0	177.4	174.7	171.9	168.9	165.7	162.2	158.3	154.0	149.1
85.0	177.5	174.9	172.2	169.4	166.4	163.1	159.6	155.8	151.5
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	32.3	32.0	31.6	31.3	31.0	30.8	30.5	30.3	30.1
10.0	35.3	34.4	33.6	32.9	32.3	31.8	31.3	30.8	30.4
15.0	38.9	37.3	36.0	34.9	34.0	33.1	32.3	31.6	30.9
20.0	43.5	41.0	39.1	37.4	36.0	34.7	33.6	32.5	31.6
25.0	49.3	45.6	42.8	40.4	38.4	36.7	35.1	33.8	32.5
30.0	56.5	51.3	47.3	44.1	41.4	39.1	37.1	35.3	33.7
35.0	65.5	58.4	52.9	48.5	45.0	42.0	39.4	37.2	35.2
40.0	76.1	66.9	59.7	54.0	49.3	45.5	42.3	39.5	37.0
45.0	87.8	76.8	67.8	60.5	54.6	49.8	45.7	42.2	39.2
50.0	99.8	87.7	77.1	68.3	60.9	54.9	49.9	45.6	41.9
55.0	110.9	98.7	87.3	77.1	68.3	61.0	54.8	49.6	45.2
60.0	120.4	109.1	97.6	86.7	76.7	68.1	60.7	54.5	49.1
65.0	128.3	118.2	107.5	96.5	85.9	76.2	67.6	60.2	53.8
70.0	134.6	125.9	116.2	105.9	95.2	84.9	75.4	66.8	59.4
75.0	139.5	132.1	123.7	114.3	103.3	94.0	83.9	74.4	65.9
80.0	143.5	137.2	129.9	121.7	112.6	102.8	92.7	82.7	73.3
85.0	146.7	141.2	135.0	127.9	119.9	111.0	101.3	91.3	81.4



ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 35.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	107.4	60.7	49.4	44.9	42.4	40.8	39.7	38.8	38.2
10.0	154.0	107.3	74.5	60.1	52.9	48.6	45.8	43.7	42.2
15.0	165.2	139.7	106.9	82.0	67.6	59.1	53.7	49.9	47.1
20.0	169.6	153.9	131.5	106.5	86.4	72.8	63.9	57.7	53.3
25.0	172.0	160.9	145.5	126.1	105.9	89.0	76.4	67.4	60.9
30.0	173.5	164.9	153.6	139.2	122.3	105.3	90.5	78.8	69.9
35.0	174.4	167.5	158.7	147.6	134.3	119.3	104.5	91.3	80.4
40.0	175.1	169.2	162.1	153.3	142.6	130.3	116.9	103.6	91.5
45.0	175.6	170.5	164.4	157.2	148.5	138.4	126.9	114.7	102.6
50.0	176.0	171.5	166.2	160.0	152.8	144.4	134.7	124.0	112.7
55.0	176.3	172.2	167.5	162.1	156.0	148.9	140.7	131.4	121.3
60.0	176.5	172.7	168.5	163.8	158.4	152.3	145.3	137.3	128.5
65.0	176.7	173.2	169.3	165.0	160.2	154.9	148.8	142.0	134.3
70.0	176.9	173.5	169.9	166.0	161.7	156.9	151.6	145.7	139.0
75.0	177.0	173.8	170.4	166.8	162.9	158.6	153.8	148.6	142.7
80.0	177.0	174.0	170.8	167.4	163.8	159.9	155.6	150.9	145.8
85.0	177.1	174.1	171.1	167.9	164.5	160.9	157.0	152.8	148.2
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	37.7	37.2	36.8	36.5	36.2	35.9	35.6	35.4	35.1
10.0	40.9	39.9	39.1	38.3	37.6	37.0	36.5	35.9	35.4
15.0	45.0	43.2	41.8	40.5	39.5	38.5	37.6	36.7	35.9
20.0	49.9	47.2	45.1	43.2	41.6	40.2	39.0	37.8	36.7
25.0	55.9	52.1	49.0	46.4	44.3	42.4	40.7	39.1	37.7
30.0	63.2	57.9	53.7	50.3	47.4	44.9	42.7	40.8	39.0
35.0	71.7	64.8	59.4	54.9	51.1	48.0	45.2	42.7	40.5
40.0	81.3	72.8	65.9	60.3	55.5	51.6	48.1	45.1	42.4
45.0	91.4	81.7	73.4	66.5	60.7	55.8	51.6	47.9	44.7
50.0	101.5	91.0	81.6	73.6	66.6	60.7	55.7	51.3	47.4
55.0	110.8	100.3	90.3	81.3	73.3	66.4	60.4	55.2	50.7
60.0	118.9	108.9	99.0	89.4	80.7	72.8	65.9	59.8	54.5
65.0	125.8	116.7	107.2	97.6	88.4	79.8	72.0	65.0	58.9
70.0	131.5	123.4	114.6	105.4	96.2	87.2	78.7	71.0	64.0
75.0	136.2	129.0	121.1	112.6	113.7	94.7	85.8	77.5	69.7
80.0	140.0	133.7	126.6	118.9	110.7	102.0	93.1	84.4	76.1
85.0	143.1	137.5	131.3	124.4	116.9	108.8	100.3	91.6	82.9

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 40.0

DELTA BETA:		5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	109.9	67.3	55.7	50.8	48.1	46.4	45.2	44.3	43.6	
10.0	152.4	109.7	80.6	66.7	59.3	54.8	51.8	49.6	47.9	
15.0	163.8	138.6	109.4	87.4	74.0	65.6	60.1	56.1	53.2	
20.0	168.6	152.2	130.9	108.9	91.2	78.8	70.2	64.1	59.6	
25.0	171.2	159.3	143.9	126.0	108.3	93.4	82.0	73.5	67.1	
30.0	172.7	163.5	151.9	137.9	122.5	107.5	94.5	84.0	75.7	
35.0	173.8	166.2	157.0	145.9	133.1	119.7	106.6	95.0	85.2	
40.0	174.6	168.1	160.5	151.4	140.9	129.3	117.3	105.6	95.0	
45.0	175.1	169.5	163.0	155.4	146.6	136.7	126.1	115.1	104.4	
50.0	175.6	170.5	164.8	158.3	150.8	142.4	133.1	123.2	113.1	
55.0	175.9	171.3	166.2	160.5	154.0	146.7	138.7	129.9	120.6	
60.0	176.1	171.9	167.3	162.2	156.4	150.1	143.0	135.3	126.9	
65.0	176.3	172.4	168.1	163.5	158.4	152.7	146.5	139.6	132.2	
70.0	176.5	172.8	168.8	164.5	159.9	154.8	149.2	143.2	136.5	
75.0	176.6	173.1	169.3	165.3	161.1	156.4	151.4	146.0	140.1	
80.0	176.7	173.3	169.7	166.0	162.0	157.8	153.2	148.3	143.0	
85.0	176.7	173.4	170.0	166.5	162.7	158.8	154.6	150.2	145.3	
DELTA BETA:		50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	43.0	42.5	42.0	41.7	41.3	41.0	40.7	40.4	40.1	
10.0	46.6	45.4	44.5	43.7	42.9	42.2	41.6	41.0	40.4	
15.0	50.9	49.0	47.4	46.1	44.9	43.8	42.8	41.9	41.0	
20.0	56.0	53.2	50.9	48.9	47.2	45.7	44.3	43.0	41.8	
25.0	62.1	58.2	55.0	52.3	49.9	47.9	46.0	44.4	42.8	
30.0	69.2	64.0	59.8	56.2	53.2	50.5	48.2	46.0	44.1	
35.0	77.2	70.6	65.2	60.7	56.9	53.6	50.7	48.1	45.7	
40.0	85.5	78.0	71.4	65.9	61.2	57.2	53.6	50.5	47.6	
45.0	94.6	85.9	78.3	71.8	66.1	61.3	57.0	53.3	49.9	
50.0	103.2	93.9	85.5	78.1	71.6	65.9	60.9	56.5	52.5	
55.0	111.1	101.8	93.0	84.9	77.6	71.1	65.4	60.2	55.6	
60.0	118.1	109.2	100.3	91.9	84.0	76.8	70.3	64.5	59.2	
65.0	124.2	115.8	107.2	98.7	90.5	82.8	75.7	69.2	63.3	
70.0	129.3	121.6	113.6	105.3	97.1	89.1	81.5	74.4	67.8	
75.0	133.6	126.6	119.2	111.4	103.4	95.4	87.5	80.0	72.9	
80.0	137.2	130.9	124.1	116.9	109.3	101.5	93.6	85.8	78.3	
85.0	140.1	134.5	128.3	121.7	114.7	107.3	99.6	91.8	84.1	

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 45.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	112.4	73.4	61.8	56.7	53.8	51.9	50.6	49.7	48.9
10.0	151.2	112.2	86.1	72.8	65.4	60.8	57.6	55.3	53.5
15.0	162.7	138.0	111.8	92.3	79.7	71.6	66.1	62.1	59.0
20.0	167.7	151.0	130.9	111.3	95.6	84.2	76.0	70.0	65.5
25.0	170.4	158.1	142.9	126.3	110.6	97.3	87.0	79.0	72.8
30.0	172.1	162.4	150.6	137.1	123.0	109.7	98.2	88.7	81.0
35.0	173.3	165.2	155.6	144.6	132.6	120.4	108.7	98.4	89.5
40.0	174.1	167.2	159.2	150.0	139.8	129.0	118.0	107.6	98.1
45.0	174.7	168.6	161.7	153.9	145.2	135.7	125.8	115.9	106.3
50.0	175.1	169.7	163.6	156.8	149.2	141.0	132.1	123.0	113.8
55.0	175.5	170.5	165.1	159.0	152.4	145.1	137.2	128.9	120.3
60.0	175.8	171.2	166.2	160.8	154.8	148.3	141.3	133.8	125.9
65.0	176.0	171.7	167.1	162.1	156.7	150.9	144.6	137.9	130.7
70.0	176.1	172.1	167.8	163.2	158.3	153.0	147.3	141.2	134.6
75.0	176.3	172.4	168.3	164.0	159.5	154.6	149.4	143.9	137.9
80.0	176.4	172.6	168.7	164.7	160.4	155.9	151.2	146.1	140.6
85.0	176.4	172.8	169.1	165.2	161.2	157.0	152.7	147.9	142.9
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	48.2	47.7	47.2	46.8	46.4	46.1	45.7	45.4	45.1
10.0	52.1	50.9	49.9	49.0	48.2	47.4	46.7	46.1	45.4
15.0	56.6	54.6	53.0	51.5	50.2	49.0	48.0	47.0	46.0
20.0	61.9	59.0	56.6	54.5	52.6	51.0	49.5	48.1	46.8
25.0	68.0	64.0	60.7	57.9	55.4	53.3	51.3	49.5	47.8
30.0	74.7	69.6	65.4	61.8	58.7	55.9	53.4	51.2	49.1
35.0	82.1	75.9	70.7	66.2	62.3	59.0	55.9	53.2	50.7
40.0	89.8	82.6	76.4	71.1	66.5	62.4	58.8	55.5	52.5
45.0	97.5	89.6	82.6	76.5	71.1	66.3	62.0	58.2	54.7
50.0	104.9	96.6	89.0	82.2	76.0	70.6	65.7	61.3	57.3
55.0	111.7	103.4	95.4	88.1	81.4	75.3	69.7	64.7	60.2
60.0	117.8	109.7	101.7	94.1	86.9	80.3	74.1	68.6	63.4
65.0	123.1	115.4	107.6	99.9	92.5	85.5	78.9	72.8	67.1
70.0	127.7	120.5	113.0	105.5	98.1	90.8	83.9	77.3	71.1
75.0	131.6	124.9	117.9	110.7	103.4	96.1	89.0	82.1	75.5
80.0	134.9	128.7	122.2	115.4	108.4	101.3	94.1	87.0	80.1
85.0	137.6	132.0	126.0	119.7	113.1	106.2	99.2	92.1	85.0

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 50.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	117.4	84.6	73.3	67.9	64.9	62.8	61.4	60.3	59.4
10.0	150.0	117.1	95.8	83.9	76.8	72.1	68.9	66.4	64.5
15.0	161.2	138.1	116.7	100.9	90.1	82.6	77.3	73.3	70.2
20.0	166.3	149.7	132.0	116.1	103.4	93.7	86.5	80.9	76.5
25.0	169.2	156.4	142.2	128.1	115.3	104.5	95.8	88.9	83.2
30.0	171.1	150.7	149.1	137.0	125.1	114.3	104.9	96.9	90.2
35.0	172.3	163.6	153.9	143.5	132.9	122.6	113.1	104.6	97.2
40.0	173.2	165.7	157.3	148.3	138.9	129.4	120.3	111.7	103.9
45.0	173.9	167.2	159.9	151.9	143.6	135.0	126.4	118.1	110.2
50.0	174.4	168.4	161.8	154.7	147.3	139.5	131.5	123.6	115.9
55.0	174.8	169.3	163.3	156.9	150.2	143.1	135.7	128.3	120.9
60.0	175.1	170.0	164.5	158.6	152.5	146.0	139.2	132.3	125.3
65.0	175.4	170.5	165.4	160.0	154.3	148.3	142.1	135.6	129.0
70.0	175.6	170.9	166.1	161.0	155.8	150.2	144.4	138.4	132.2
75.0	175.7	171.3	166.7	161.9	156.9	151.8	146.4	140.8	134.9
80.0	175.8	171.5	167.1	162.6	157.9	153.0	147.9	142.7	137.2
85.0	175.9	171.7	167.4	163.0	158.6	153.9	149.2	144.2	139.1
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	58.7	58.1	57.5	57.1	56.6	56.2	55.8	55.5	55.1
10.0	62.9	61.6	60.4	59.4	58.5	57.7	56.9	56.1	55.4
15.0	67.6	65.5	63.7	62.1	60.7	59.4	58.2	57.0	55.9
20.0	72.9	69.9	67.4	65.1	63.2	61.4	59.7	58.1	56.7
25.0	78.6	74.7	71.4	68.5	65.9	63.6	61.5	59.5	57.6
30.0	84.6	79.9	75.7	72.2	69.0	66.1	63.5	61.1	58.8
35.0	90.8	85.2	80.4	76.1	72.3	68.9	65.8	62.9	60.2
40.0	97.0	90.7	85.2	80.3	75.9	71.9	68.3	64.9	61.8
45.0	102.9	96.2	90.2	84.7	79.7	75.2	71.1	67.2	63.7
50.0	108.5	101.6	95.1	89.2	83.7	78.7	74.1	69.8	65.8
55.0	113.6	106.6	100.0	93.7	87.8	82.4	77.3	72.6	68.1
60.0	118.2	111.3	104.6	98.1	92.0	86.2	80.7	75.6	70.7
65.0	122.3	115.6	108.9	102.4	96.1	90.0	84.2	78.7	73.5
70.0	125.9	119.4	112.9	106.5	100.1	93.9	87.9	82.1	76.5
75.0	128.9	122.8	116.5	110.2	103.9	97.7	91.5	85.5	79.7
80.0	131.6	125.8	119.8	113.7	107.5	101.3	95.2	89.1	83.1
85.0	133.8	128.3	122.7	116.8	110.9	104.8	98.7	92.6	86.5

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 55.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	114.9	79.2	67.6	62.4	59.4	57.4	56.0	55.0	54.2
10.0	150.5	114.7	91.1	78.5	71.2	66.5	63.3	60.9	59.1
15.0	161.9	137.9	114.2	96.7	85.1	77.3	71.8	67.8	64.7
20.0	167.0	150.2	131.3	113.7	99.6	89.1	81.4	75.6	71.1
25.0	169.8	157.1	142.4	127.1	112.9	101.0	91.6	84.1	78.2
30.0	171.6	161.4	149.7	136.8	123.9	112.0	101.6	92.9	85.8
35.0	172.8	164.3	154.6	143.9	132.6	121.4	110.9	101.6	93.5
40.0	173.6	166.3	158.1	149.0	139.2	129.0	119.1	109.7	101.1
45.0	174.3	167.8	160.7	152.8	144.2	135.2	125.9	116.9	108.2
50.0	174.8	169.0	162.6	155.6	148.1	140.0	131.6	123.1	114.7
55.0	175.1	169.8	164.1	157.9	151.1	143.9	136.3	128.4	120.5
60.0	175.4	170.5	165.3	159.6	153.5	147.0	140.1	132.9	125.4
65.0	175.7	171.1	166.2	160.9	155.4	149.5	143.2	136.5	129.6
70.0	175.8	171.5	166.9	162.0	156.9	151.4	145.7	139.6	133.2
75.0	176.0	171.8	167.4	162.9	158.1	153.0	147.7	142.1	136.2
80.0	176.1	172.0	167.9	163.5	159.0	154.3	149.4	144.2	138.7
85.0	176.1	172.2	168.2	164.1	159.8	155.4	150.7	145.9	140.8
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	53.5	52.9	52.4	51.9	51.5	51.2	50.8	50.4	50.1
10.0	57.5	56.3	55.2	54.2	53.4	52.6	51.8	51.1	50.4
15.0	62.2	60.1	58.4	56.9	55.5	54.2	53.1	52.0	51.0
20.0	67.5	64.5	62.0	59.9	58.0	56.2	54.6	53.2	51.7
25.0	73.4	69.5	66.2	63.3	60.8	58.5	56.4	54.5	52.7
30.0	79.9	74.9	70.7	67.1	63.9	61.1	58.6	56.2	54.0
35.0	86.6	80.7	75.7	71.3	67.5	64.0	61.0	58.1	55.5
40.0	93.5	86.8	81.0	75.9	71.4	67.3	63.7	60.3	57.3
45.0	100.3	93.0	86.5	80.7	75.6	70.9	66.7	62.9	59.3
50.0	106.7	99.1	92.2	85.8	80.1	74.8	70.0	65.7	61.7
55.0	112.6	105.0	97.7	91.0	84.7	79.0	73.7	68.8	64.3
60.0	117.9	110.4	103.1	96.1	89.5	83.3	77.6	72.2	67.2
65.0	122.5	115.4	108.2	101.1	94.3	87.8	81.7	75.9	70.5
70.0	126.6	119.8	112.8	105.9	99.1	92.4	86.0	79.8	74.0
75.0	130.1	123.7	117.1	110.3	103.6	96.9	90.3	83.9	77.7
80.0	133.0	127.0	120.8	114.4	107.9	101.2	94.6	88.1	81.7
85.0	135.5	129.9	124.1	118.1	111.8	105.4	98.9	92.3	85.8

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 60.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	119.9	89.7	78.7	73.4	70.2	68.2	66.7	65.5	64.6
10.0	149.9	119.6	100.2	89.0	82.1	77.5	74.2	71.8	69.8
15.0	160.7	138.7	119.1	104.8	94.8	87.7	82.5	78.6	75.5
20.0	165.9	149.5	133.0	118.5	106.9	98.1	91.2	85.9	81.6
25.0	168.8	156.0	142.4	129.3	117.6	107.8	99.9	93.3	88.0
30.0	170.7	160.2	148.9	137.4	126.4	116.6	108.0	100.7	94.4
35.0	172.0	163.1	153.4	143.4	133.5	124.0	115.3	107.6	100.7
40.0	172.9	165.1	156.8	147.9	139.0	130.1	121.7	113.9	106.7
45.0	173.6	166.7	159.2	151.4	143.3	135.2	127.2	119.5	112.2
50.0	174.1	167.9	161.2	154.1	146.8	139.3	131.7	124.3	117.2
55.0	174.5	168.8	162.6	156.2	149.5	142.6	135.6	128.5	121.6
60.0	174.9	169.5	163.8	157.9	151.7	145.3	138.7	132.1	125.4
65.0	175.1	170.0	164.7	159.2	153.4	147.5	141.4	135.1	128.7
70.0	175.3	170.5	165.4	160.2	154.8	149.3	143.5	137.6	131.6
75.0	175.5	170.8	166.0	161.1	156.0	150.7	145.3	139.7	134.0
80.0	175.6	171.0	166.4	161.7	156.8	151.9	146.7	141.5	136.0
85.0	175.6	171.2	166.7	162.2	157.5	152.8	147.9	142.9	137.7
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	63.9	63.2	62.7	62.2	61.7	61.3	60.9	60.5	60.1
10.0	68.2	66.8	65.6	64.6	63.6	62.8	61.9	61.1	60.4
15.0	72.9	70.8	68.9	67.3	65.8	64.5	63.2	62.0	60.9
20.0	78.1	75.1	72.5	70.3	68.3	66.4	64.7	63.1	61.5
25.0	83.5	79.7	76.4	73.5	70.9	68.6	66.4	64.3	62.4
30.0	89.1	84.5	80.5	77.0	73.8	71.0	68.3	65.8	63.4
35.0	94.7	89.5	84.8	80.7	76.9	73.5	70.4	67.5	64.7
40.0	100.2	94.4	89.2	84.5	80.2	76.3	72.7	69.3	66.1
45.0	105.5	99.3	93.6	88.4	83.7	79.3	75.2	71.4	67.8
50.0	110.4	103.9	97.9	92.4	87.2	82.4	77.9	73.6	69.6
55.0	114.8	108.3	102.1	96.3	90.8	85.6	80.7	76.1	71.7
60.0	118.8	112.4	106.1	100.1	94.3	88.8	83.6	78.6	73.9
65.0	122.4	116.0	109.8	103.7	97.8	92.1	86.6	81.3	76.3
70.0	125.5	119.3	113.2	107.1	101.2	95.3	89.6	84.1	78.8
75.0	128.2	122.3	116.3	110.3	104.4	98.5	92.7	87.0	81.5
80.0	130.5	124.8	119.1	113.3	107.4	101.6	95.7	90.0	84.3
85.0	132.5	127.1	121.5	115.9	110.2	104.5	98.7	92.9	87.1

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 65.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	122.4	94.6	84.0	78.7	75.5	73.4	71.9	70.7	69.8
10.0	150.0	122.1	104.4	93.8	87.2	82.7	79.5	77.0	75.0
15.0	160.4	139.5	121.6	108.5	99.2	92.5	87.6	83.7	80.6
20.0	165.5	149.6	134.1	120.9	110.4	102.2	95.8	90.7	86.5
25.0	168.5	155.8	142.8	130.6	120.0	111.1	103.7	97.6	92.5
30.0	170.4	159.8	148.9	138.0	127.9	118.9	111.0	104.2	98.4
35.0	171.7	162.7	153.2	143.6	134.6	125.5	117.6	110.4	104.1
40.0	172.6	164.7	156.4	147.9	139.3	131.1	123.3	116.0	109.4
45.0	173.4	166.3	158.8	151.1	143.3	135.6	128.1	121.0	114.3
50.0	173.9	167.5	160.7	153.7	146.5	139.3	132.2	125.3	118.6
55.0	174.3	168.4	162.2	155.7	149.1	142.4	135.7	129.0	122.5
60.0	174.7	169.1	163.3	157.3	151.2	144.9	138.5	132.2	125.8
65.0	174.9	169.6	164.2	158.6	152.8	146.9	140.9	134.8	128.8
70.0	175.1	170.1	164.9	159.6	154.2	148.6	142.9	137.1	131.3
75.0	175.3	170.4	165.5	160.4	155.2	149.9	144.5	139.0	133.4
80.0	175.4	170.7	165.9	161.0	156.0	151.0	145.8	140.5	135.2
85.0	175.4	170.8	166.2	161.4	156.7	151.8	146.8	141.8	136.6
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	69.0	68.3	67.8	67.2	66.8	66.3	65.9	65.5	65.1
10.0	73.4	72.0	70.8	69.7	68.7	67.8	67.0	66.1	65.3
15.0	78.1	75.9	74.1	72.4	70.9	69.5	68.2	67.0	65.8
20.0	83.1	80.1	77.6	75.3	73.3	71.4	69.6	67.9	66.3
25.0	88.2	84.5	81.3	78.4	75.8	73.4	71.2	69.1	67.1
30.0	93.4	89.0	85.1	81.7	78.5	75.6	73.0	70.4	68.0
35.0	98.5	93.5	89.0	85.0	81.4	78.0	74.9	71.9	69.1
40.0	103.4	97.9	93.0	88.5	84.3	80.5	76.9	73.6	70.3
45.0	108.0	102.2	96.9	92.0	87.4	83.1	79.1	75.3	71.8
50.0	112.3	106.3	100.7	95.4	90.5	85.8	81.4	77.3	73.3
55.0	116.1	110.1	104.3	98.8	93.5	88.6	83.8	79.3	75.0
60.0	119.6	113.6	107.7	102.0	96.5	91.3	86.3	81.5	76.9
65.0	122.7	116.7	110.8	105.1	99.5	94.1	88.8	83.7	78.9
70.0	125.0	119.5	113.7	108.0	102.3	96.7	91.3	86.1	80.9
75.0	127.7	122.0	116.3	110.6	105.0	99.4	93.8	88.4	83.1
80.0	129.7	124.2	118.7	113.1	107.5	101.9	96.3	90.8	85.4
85.0	131.4	126.1	120.7	115.3	109.8	104.2	98.7	93.2	87.7

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 70.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	124.9	99.3	89.1	83.8	80.7	78.5	77.0	75.9	74.9
10.0	150.3	124.6	108.3	98.5	92.2	87.8	84.6	82.1	80.1
15.0	160.3	140.4	124.1	112.1	103.4	97.2	92.4	88.7	85.6
20.0	165.3	149.9	135.5	123.3	113.7	106.1	100.1	95.2	91.3
25.0	168.3	155.8	143.4	132.2	122.4	114.2	107.4	101.6	96.8
30.0	170.2	159.7	149.1	138.9	129.6	121.2	114.0	107.7	102.2
35.0	171.5	162.5	153.2	144.0	135.3	127.2	119.8	113.2	107.3
40.0	172.4	164.5	156.3	148.0	139.9	132.2	124.9	118.2	112.1
45.0	173.2	166.0	158.6	151.1	143.6	136.3	129.3	122.6	116.3
50.0	173.7	167.2	160.4	153.5	146.6	139.7	132.9	126.4	120.2
55.0	174.1	168.1	161.8	155.4	148.9	142.5	136.0	129.7	123.5
60.0	174.5	168.8	162.9	156.9	150.9	144.7	138.6	132.5	126.5
65.0	174.7	169.3	163.8	158.2	152.4	146.6	140.7	134.9	129.0
70.0	174.9	169.8	164.5	159.1	153.7	148.1	142.5	136.9	131.2
75.0	175.1	170.1	165.0	159.9	154.6	149.3	143.9	138.5	133.0
80.0	175.2	170.3	165.4	160.5	155.4	150.3	145.1	139.9	134.6
85.0	175.3	170.5	165.7	160.9	156.0	151.0	146.0	140.9	135.8

  

DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	74.1	73.4	72.8	72.3	71.8	71.3	70.9	70.5	70.1
10.0	78.5	77.1	75.9	74.8	73.8	72.8	72.0	71.1	70.3
15.0	83.1	81.0	79.1	77.4	75.9	74.5	73.1	71.9	70.6
20.0	87.9	85.0	82.5	80.2	78.2	76.3	74.5	72.8	71.1
25.0	92.7	89.1	86.0	83.1	80.6	78.2	75.9	73.8	71.7
30.0	97.5	93.3	89.5	86.2	83.1	80.2	77.5	75.0	72.5
35.0	102.1	97.4	93.1	89.2	85.7	82.3	79.2	76.2	73.4
40.0	106.4	101.3	96.6	92.3	88.3	84.5	81.0	77.6	74.4
45.0	110.5	105.1	100.0	95.3	90.9	86.8	82.9	79.2	75.6
50.0	114.2	108.6	103.3	98.3	93.6	89.1	84.8	80.8	76.8
55.0	117.6	111.9	106.4	101.2	96.2	91.4	86.8	82.5	78.2
60.0	120.6	114.9	109.3	103.9	98.7	93.7	88.9	84.2	79.7
65.0	123.2	117.5	112.0	106.5	101.2	96.0	90.9	86.0	81.3
70.0	125.6	119.9	114.4	108.9	103.5	98.2	93.0	87.9	82.9
75.0	127.5	122.0	116.5	111.1	105.6	100.3	95.0	89.8	84.6
80.0	129.2	123.8	118.5	113.0	107.7	102.3	96.9	91.6	86.4
85.0	130.6	125.4	120.1	114.8	109.5	104.2	98.8	93.5	88.2



ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 75.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	127.4	103.8	94.0	88.9	85.8	83.7	82.1	80.9	80.0
10.0	150.8	127.1	112.1	103.0	96.9	92.7	89.6	87.2	85.2
15.0	160.4	141.6	126.5	115.5	107.5	101.6	97.1	93.5	90.5
20.0	165.2	150.3	136.9	125.8	116.9	109.9	104.2	99.7	95.8
25.0	168.1	155.9	144.3	133.8	124.8	117.2	110.9	105.6	101.0
30.0	170.0	159.7	149.5	140.0	131.3	123.6	116.9	111.0	105.9
35.0	171.3	162.4	153.4	144.7	136.5	129.0	122.2	116.0	110.5
40.0	172.3	164.3	156.3	148.4	140.7	133.5	126.7	120.4	114.7
45.0	173.0	165.8	158.5	151.2	144.1	137.2	130.6	124.3	118.5
50.0	173.6	167.0	160.3	153.5	146.8	140.8	133.8	127.7	121.8
55.0	174.0	167.9	161.6	155.3	149.0	142.8	136.6	130.6	124.8
60.0	174.4	168.6	162.7	156.8	150.8	144.8	138.9	133.1	127.3
65.0	174.6	169.1	163.6	157.9	152.2	146.5	140.8	135.1	129.5
70.0	174.8	169.6	164.2	158.8	153.4	147.9	142.4	136.9	131.4
75.0	175.0	169.9	164.7	159.5	154.5	149.0	143.6	138.3	132.9
80.0	175.1	170.1	165.1	160.0	155.0	149.8	144.6	139.4	134.2
85.0	175.1	170.3	165.4	160.4	155.4	150.4	145.4	140.3	135.2
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	79.2	78.5	77.9	77.3	76.8	76.4	75.9	75.5	75.1
10.0	83.6	82.1	80.9	79.8	78.8	77.8	76.9	76.1	75.2
15.0	88.1	85.9	84.1	82.4	80.8	79.4	78.1	76.8	75.5
20.0	92.6	89.8	87.3	85.0	83.0	81.1	79.3	77.5	75.9
25.0	97.1	93.6	90.6	87.8	85.2	82.8	80.6	78.4	76.4
30.0	101.4	97.4	93.8	90.5	87.5	84.7	82.0	79.4	76.9
35.0	105.6	101.1	97.0	93.3	89.8	86.5	83.5	80.5	77.6
40.0	109.4	104.6	100.1	96.0	92.1	88.5	85.0	81.6	78.4
45.0	113.0	107.9	103.1	98.6	94.4	90.4	86.5	82.9	79.3
50.0	116.3	111.0	105.9	101.2	96.6	92.3	88.1	84.1	80.2
55.0	119.2	113.8	108.6	103.6	98.6	94.2	89.8	85.5	81.3
60.0	121.7	116.3	111.0	105.9	100.9	96.1	91.4	86.8	82.4
65.0	124.0	118.5	113.2	108.0	102.9	97.9	93.0	88.2	83.5
70.0	125.9	120.5	115.2	109.9	104.7	99.6	94.6	89.6	84.8
75.0	127.6	122.2	116.9	111.7	106.4	101.2	96.1	91.0	86.0
80.0	129.0	123.7	118.5	113.2	108.0	102.8	97.6	92.4	87.3
85.0	130.1	124.9	119.8	114.6	109.4	104.2	99.0	93.8	88.7

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 80.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	129.9	108.1	98.8	93.9	90.8	88.7	87.2	86.0	85.0
10.0	151.5	129.6	115.8	107.3	101.6	97.5	94.5	92.1	90.2
15.0	160.6	142.9	129.0	118.9	111.5	105.9	101.6	98.1	95.3
20.0	165.3	151.0	138.5	128.3	120.1	113.5	108.3	103.9	100.3
25.0	168.1	156.3	145.3	135.5	127.3	120.3	114.4	109.4	105.1
30.0	170.0	159.9	150.1	141.2	133.1	126.0	119.8	114.3	109.5
35.0	171.3	162.4	153.8	145.5	137.8	130.8	124.5	118.8	113.7
40.0	172.2	164.3	156.5	148.9	141.7	134.9	128.6	122.7	117.4
45.0	172.9	165.8	156.6	151.6	144.8	138.2	132.0	126.2	120.7
50.0	173.5	166.9	160.3	153.7	147.3	141.0	134.9	129.1	123.6
55.0	173.9	167.8	161.6	155.4	149.3	143.3	137.4	131.7	126.2
60.0	174.3	168.5	162.6	156.8	150.9	145.1	139.4	133.8	128.4
65.0	174.5	169.0	163.4	157.8	152.2	146.7	141.1	135.6	130.2
70.0	174.7	169.4	164.1	158.7	153.3	147.9	142.5	137.1	131.8
75.0	174.9	169.7	164.5	159.3	154.1	148.8	143.6	138.3	133.1
80.0	175.0	169.9	164.9	159.8	154.7	149.6	144.4	139.3	134.1
85.0	175.1	170.1	165.1	160.1	155.1	150.1	145.0	140.0	174.9
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	84.2	83.5	82.9	82.3	81.8	81.4	80.9	80.5	80.0
10.0	88.5	87.1	85.9	84.8	83.8	82.8	81.9	81.0	80.1
15.0	92.9	90.8	88.9	87.3	85.7	84.3	82.9	81.6	80.3
20.0	97.2	94.4	92.0	89.8	87.8	85.8	84.0	82.3	80.6
25.0	101.3	98.0	95.0	92.3	89.8	87.4	85.2	83.0	80.9
30.0	105.3	101.5	98.0	94.8	91.8	89.0	86.4	83.8	81.3
35.0	109.0	104.8	100.9	97.2	93.9	90.7	87.6	84.7	81.8
40.0	112.4	107.8	103.6	99.6	95.9	92.3	88.9	85.5	82.3
45.0	115.5	110.7	106.2	101.9	97.8	93.9	90.1	86.5	82.9
50.0	118.3	113.3	108.6	104.0	99.5	95.4	91.4	87.4	83.5
55.0	120.8	115.7	110.8	106.0	101.4	96.9	92.6	88.4	84.2
60.0	123.0	117.8	112.8	107.8	103.1	98.4	93.8	89.4	85.0
65.0	124.9	119.7	114.5	109.5	104.6	99.8	95.0	90.3	85.7
70.0	126.5	121.3	116.1	111.0	106.0	101.1	96.2	91.3	86.5
75.0	127.9	122.7	117.5	112.4	107.3	102.3	97.3	92.3	87.4
80.0	129.0	123.8	118.7	113.5	108.4	103.4	98.3	93.3	88.2
85.0	129.8	124.7	119.6	114.5	109.4	104.3	99.3	94.2	89.1

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 85.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	132.4	112.2	103.5	98.7	95.7	93.7	92.2	91.0	90.0
10.0	152.3	132.1	119.4	111.4	106.0	102.2	99.2	96.9	95.0
15.0	160.9	144.2	131.5	122.2	115.3	110.1	106.0	102.7	99.9
20.0	165.4	151.8	140.2	130.7	123.2	117.1	112.2	108.1	104.6
25.0	168.2	156.7	146.4	137.4	129.7	123.2	117.8	113.1	109.0
30.0	170.0	160.2	150.9	142.5	135.0	128.4	122.7	117.6	113.1
35.0	171.3	162.6	154.3	146.5	139.3	132.8	126.9	121.6	116.8
40.0	172.2	164.4	156.9	149.6	142.8	136.4	130.5	125.1	120.0
45.0	172.9	165.8	158.9	152.1	145.6	139.4	133.6	128.1	122.9
50.0	173.5	166.9	160.4	154.1	147.9	141.9	136.2	130.7	125.5
55.0	173.9	167.8	161.7	155.6	149.7	144.0	138.3	132.9	127.7
60.0	174.2	168.4	162.6	156.9	151.2	145.6	140.1	134.8	129.5
65.0	174.5	169.0	163.4	157.9	152.4	147.0	141.6	136.3	131.1
70.0	174.7	169.4	164.0	158.7	153.4	148.1	142.8	137.6	132.4
75.0	174.8	169.7	164.5	159.3	154.1	148.9	143.7	138.6	133.4
80.0	174.9	169.9	164.8	159.7	154.6	149.5	144.4	139.3	134.2
85.0	175.0	170.0	165.0	159.9	154.9	149.9	144.9	139.8	134.8
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	89.2	88.5	87.9	87.3	86.8	86.4	85.9	85.5	85.0
10.0	93.4	92.1	90.8	89.7	88.7	87.7	86.8	85.9	85.1
15.0	97.6	95.6	93.7	92.1	90.6	89.1	87.8	86.5	85.2
20.0	101.6	99.0	96.6	94.5	92.4	90.6	88.8	87.0	85.3
25.0	105.5	102.3	99.4	96.8	94.3	92.0	89.7	87.6	85.5
30.0	109.1	105.4	102.1	99.0	96.1	93.4	90.7	88.2	85.7
35.0	112.4	108.3	104.6	101.1	97.9	94.7	91.7	88.8	85.9
40.0	115.4	111.0	107.0	103.2	99.5	96.0	92.7	89.4	86.2
45.0	118.1	113.5	109.2	105.1	101.1	97.3	93.6	90.0	86.5
50.0	120.5	115.7	111.2	106.8	102.6	98.5	94.5	90.6	86.8
55.0	122.6	117.7	113.0	108.4	104.0	99.7	95.4	91.2	87.1
60.0	124.4	119.5	114.6	109.9	105.3	100.7	96.3	91.9	87.5
65.0	126.0	121.0	116.0	111.2	106.4	101.7	97.0	92.4	87.9
70.0	127.3	122.2	117.2	112.3	107.4	102.6	97.8	93.0	88.3
75.0	128.3	123.3	118.2	113.2	108.3	103.3	98.4	93.6	88.7
80.0	129.2	124.1	119.1	114.0	109.0	104.0	99.0	94.1	89.1
85.0	129.7	124.7	119.7	114.6	109.6	104.6	99.6	94.6	89.6

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 90.0

DELTA  
BETA:

	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	134.9	116.3	108.0	103.5	100.6	98.6	97.1	95.9	95.0
10.0	153.3	134.6	122.9	115.5	110.4	106.7	103.9	101.7	99.9
15.0	161.3	145.7	134.0	125.4	119.0	114.1	110.3	107.1	104.5
20.0	165.7	152.7	141.9	133.2	126.3	120.6	116.0	112.2	108.9
25.0	168.3	157.4	147.6	139.3	132.2	126.2	121.1	116.7	112.9
30.0	170.1	160.6	151.8	143.9	137.0	130.9	125.5	120.8	116.6
35.0	171.3	162.9	155.0	147.6	140.9	134.8	129.3	124.4	119.8
40.0	172.2	164.7	157.4	150.5	144.0	138.1	132.6	127.5	122.7
45.0	172.9	166.0	159.2	152.8	146.6	140.8	135.3	130.1	125.3
50.0	173.5	167.0	160.7	154.6	148.7	143.0	137.6	132.4	127.5
55.0	173.9	167.9	161.9	156.0	150.3	144.8	139.5	134.3	129.3
60.0	174.2	168.5	162.8	157.2	151.7	146.3	141.0	135.9	130.9
65.0	174.5	169.0	163.5	158.1	152.8	147.5	142.3	137.2	132.2
70.0	174.7	169.4	164.1	158.8	153.6	148.4	143.3	138.2	133.2
75.0	174.8	169.7	164.5	159.4	154.2	149.1	144.1	139.0	134.0
80.0	174.9	169.8	164.8	159.7	154.7	149.6	144.6	139.6	134.6
85.0	175.0	170.0	164.9	159.9	154.9	149.9	144.9	139.9	134.9

DELTA  
BETA:

	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	94.2	93.5	92.9	92.3	91.8	91.3	90.9	90.4	270.0
10.0	98.3	96.9	95.7	94.6	93.6	92.7	91.8	90.9	270.0
15.0	102.3	100.3	98.5	96.9	95.4	94.0	92.6	91.3	270.0
20.0	106.0	103.5	101.2	99.1	97.1	95.2	93.5	91.7	270.0
25.0	109.5	106.5	103.7	101.1	98.7	96.5	94.3	92.1	270.0
30.0	112.8	109.3	106.1	103.1	100.3	97.6	95.0	92.5	270.0
35.0	115.7	111.9	108.3	105.0	101.8	98.7	95.8	92.9	270.0
40.0	118.3	114.2	110.4	106.7	103.2	99.8	96.5	93.2	270.0
45.0	120.7	116.3	112.2	108.2	104.4	100.7	97.1	93.5	270.0
50.0	122.7	118.2	113.9	109.7	105.5	101.6	97.7	93.8	270.0
55.0	124.5	119.8	115.3	110.9	106.6	102.4	98.2	94.1	270.0
60.0	126.0	121.2	116.6	112.0	107.5	103.1	98.7	94.3	270.0
65.0	127.3	122.4	117.6	112.9	108.3	103.6	99.1	94.5	270.0
70.0	128.3	123.3	118.5	113.7	108.9	104.1	99.4	94.7	270.0
75.0	129.0	124.1	119.1	114.2	109.4	104.5	99.7	94.8	270.0
80.0	129.6	124.6	119.6	114.7	109.7	104.8	99.9	94.9	270.0
85.0	129.9	124.9	119.9	114.9	109.9	104.9	100.0	95.0	270.0

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA -- ALPHA = 95.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	137.4	120.3	112.5	108.1	105.4	103.4	102.0	100.8	99.9
10.0	154.3	137.1	126.4	119.5	114.7	111.2	108.5	106.4	104.6
15.0	161.9	147.3	136.5	128.6	122.7	118.1	114.5	111.5	109.0
20.0	166.0	153.8	143.7	135.7	129.3	124.1	119.8	116.2	113.1
25.0	168.5	158.1	149.0	141.2	134.7	129.1	124.4	120.3	116.7
30.0	170.2	161.1	152.8	145.5	139.0	133.4	128.4	124.0	120.0
35.0	171.5	163.3	155.8	148.8	142.6	136.9	131.8	127.2	122.9
40.0	172.3	165.0	158.0	151.5	145.4	139.8	134.7	129.9	125.5
45.0	173.0	166.3	159.8	153.6	147.7	142.2	137.1	132.2	127.7
50.0	173.6	167.2	161.1	155.2	149.5	144.2	139.1	134.2	129.5
55.0	174.0	168.0	162.2	156.6	151.1	145.9	140.8	135.9	131.1
60.0	174.3	168.6	163.1	157.7	152.3	147.2	142.1	137.2	132.4
65.0	174.5	169.1	163.8	158.5	153.3	148.2	143.2	138.3	133.4
70.0	174.7	169.5	164.3	159.1	154.0	149.0	144.0	139.1	134.2
75.0	174.9	169.7	164.6	159.6	154.6	149.6	144.6	139.7	134.8
80.0	174.9	169.9	164.9	159.9	154.9	149.9	145.0	140.0	135.1
85.0	175.0	170.0	165.0	160.1	155.1	150.1	145.1	140.2	135.2
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	99.1	98.4	97.8	97.3	96.8	96.3	95.9	95.4	275.0
10.0	103.1	101.8	100.5	99.5	98.5	97.6	96.7	95.8	274.9
15.0	106.4	104.9	103.2	101.6	100.2	98.8	97.4	96.1	274.8
20.0	110.3	107.9	105.7	103.6	101.7	99.9	98.1	96.4	274.7
25.0	113.5	110.6	108.0	105.5	103.2	100.9	98.8	96.6	274.5
30.0	116.4	113.1	110.1	107.2	104.5	101.9	99.3	96.8	274.3
35.0	119.0	115.4	112.0	108.8	105.7	102.7	99.8	97.0	274.1
40.0	121.3	117.4	113.7	110.2	106.8	103.5	100.2	97.0	273.8
45.0	123.3	119.2	115.3	111.4	107.8	104.1	100.6	97.1	273.5
50.0	125.0	120.7	116.6	112.5	108.6	104.7	100.9	277.0	273.2
55.0	126.5	122.0	117.7	113.4	109.3	105.1	101.0	277.0	272.9
60.0	127.7	123.1	118.6	114.2	109.8	105.5	101.1	276.8	272.5
65.0	128.7	124.0	119.3	114.8	110.2	105.7	281.2	276.6	272.1
70.0	129.4	124.6	119.9	115.2	110.5	105.8	281.1	276.4	271.7
75.0	129.9	125.1	120.2	115.4	110.6	285.8	281.0	276.1	271.3
80.0	130.2	125.3	120.4	295.5	290.6	285.6	280.7	275.8	270.9
85.0	310.3	305.3	300.3	295.4	290.4	285.4	280.4	275.4	270.4

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 100.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	139.9	124.1	116.8	112.7	110.1	108.2	106.8	105.7	104.8
10.0	155.4	139.6	129.8	123.3	118.9	115.6	113.0	111.0	109.3
15.0	162.5	148.9	139.0	131.7	126.3	122.0	118.6	115.8	113.4
20.0	166.4	154.9	145.6	138.2	132.3	127.5	123.5	120.1	117.2
25.0	168.8	158.9	150.4	143.2	137.2	132.1	127.7	123.9	120.5
30.0	170.5	161.7	154.0	147.1	141.1	135.9	131.3	127.2	123.4
35.0	171.6	163.8	156.7	150.2	144.3	139.1	134.3	130.0	126.0
40.0	172.5	165.4	158.7	152.6	146.9	141.7	136.9	132.4	128.2
45.0	173.2	166.6	160.4	154.5	149.0	143.8	139.0	134.4	130.1
50.0	173.7	167.5	161.7	156.0	150.7	145.6	140.8	136.1	131.7
55.0	174.1	168.3	162.7	157.3	152.1	147.0	142.2	137.5	133.0
60.0	174.4	168.9	163.5	158.2	153.1	148.2	143.4	138.6	134.1
65.0	174.6	169.3	164.1	159.0	154.0	149.1	144.2	139.5	134.9
70.0	174.8	169.5	164.6	159.6	154.6	149.7	144.9	140.1	135.4
75.0	174.9	169.9	164.9	160.0	155.0	150.2	145.3	140.5	135.7
80.0	175.0	170.1	165.1	160.2	155.3	150.4	145.6	140.7	135.9
85.0	175.1	170.1	165.2	160.3	155.4	330.5	325.6	320.7	315.8
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	104.0	103.4	102.8	102.2	101.7	101.3	100.8	100.4	280.0
10.0	107.8	106.5	105.4	104.4	103.4	102.5	101.6	100.7	279.9
15.0	111.3	109.5	107.9	106.3	104.9	103.5	102.2	100.9	279.7
20.0	114.6	112.2	110.1	108.1	106.3	104.5	102.8	101.1	279.4
25.0	117.5	114.7	112.2	109.8	107.5	105.4	103.3	101.2	279.1
30.0	120.1	116.9	114.0	111.3	108.5	106.1	103.6	281.2	278.7
35.0	122.3	118.9	115.7	112.6	109.6	106.7	103.9	281.1	278.2
40.0	124.3	120.6	117.1	113.7	110.4	107.2	104.0	280.9	277.7
45.0	126.0	122.1	118.3	114.7	111.1	107.6	104.1	280.6	277.1
50.0	127.5	123.3	119.4	115.5	111.6	107.8	284.1	280.3	276.5
55.0	128.6	124.4	120.2	116.1	112.0	108.0	283.9	279.9	275.8
60.0	129.6	125.1	120.8	116.5	112.2	287.9	283.7	279.4	275.0
65.0	130.3	125.7	121.2	116.7	292.3	287.8	283.3	278.8	274.3
70.0	130.7	126.1	121.4	296.8	292.2	287.5	282.9	278.2	273.5
75.0	131.0	126.2	301.5	296.7	291.9	287.1	282.3	277.5	272.6
80.0	311.0	306.2	301.3	296.4	291.5	286.6	281.7	276.7	271.8
85.0	310.8	305.9	300.9	296.0	291.0	286.0	281.0	275.9	270.9

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 105.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	142.4	127.9	121.1	117.2	114.7	112.9	111.6	110.5	109.7
10.0	156.7	142.1	133.1	127.2	123.0	119.9	117.5	115.6	113.9
15.0	163.2	150.7	141.5	134.9	129.8	125.9	122.7	120.0	117.8
20.0	166.9	156.1	147.6	140.8	135.3	130.9	127.1	124.0	121.2
25.0	169.2	159.8	151.9	145.3	139.7	135.0	130.9	127.4	124.2
30.0	170.8	162.5	155.2	148.8	143.3	138.5	134.2	130.3	126.9
35.0	171.9	164.4	157.7	151.6	146.2	141.3	136.9	132.8	129.1
40.0	172.7	165.9	159.6	153.8	148.5	143.6	139.1	135.0	131.0
45.0	173.3	167.0	161.1	155.6	150.4	145.5	141.0	136.7	132.7
50.0	173.8	167.9	162.3	157.0	151.9	147.1	142.5	138.2	134.0
55.0	174.2	168.6	163.2	158.1	153.1	148.4	143.8	139.3	135.0
60.0	174.5	169.2	164.0	158.9	154.1	149.3	144.7	140.3	135.9
65.0	174.7	169.6	164.5	159.6	154.8	150.1	145.5	140.9	136.4
70.0	174.9	169.9	165.0	160.1	155.3	150.6	146.0	141.4	136.8
75.0	175.0	170.1	165.3	160.5	155.7	151.0	146.3	141.6	136.9
80.0	175.1	170.3	165.4	160.7	155.9	151.1	326.4	321.6	316.8
85.0	175.2	170.3	165.5	340.7	335.9	331.1	326.2	321.4	316.5
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	108.9	108.3	107.7	107.2	106.7	196.2	105.8	105.4	284.9
10.0	112.5	111.3	110.2	109.2	108.2	107.3	106.5	105.6	284.8
15.0	115.8	114.1	112.5	111.0	109.6	108.3	107.0	105.8	284.5
20.0	118.8	116.6	114.5	112.6	110.8	109.1	107.4	285.8	284.1
25.0	121.4	118.8	116.4	114.1	111.9	109.8	107.7	285.7	283.6
30.0	123.7	120.7	118.0	115.3	112.8	110.3	107.9	285.5	283.1
35.0	125.7	122.4	119.4	116.4	113.5	110.7	288.0	285.2	282.4
40.0	127.4	123.9	120.5	117.3	114.1	111.0	287.9	284.8	281.6
45.0	128.8	125.1	121.5	118.0	114.5	111.1	287.7	284.2	280.7
50.0	130.0	126.0	122.2	118.5	114.7	291.0	287.3	283.6	279.8
55.0	130.9	126.8	122.8	118.8	294.8	290.9	286.9	282.8	278.7
60.0	131.6	127.3	123.1	118.9	294.7	290.5	286.3	282.0	277.6
65.0	132.0	127.6	123.2	298.8	294.5	290.0	285.6	281.1	276.5
70.0	132.2	307.7	303.2	298.6	294.0	289.4	284.7	280.0	275.2
75.0	312.3	307.6	302.9	298.2	293.4	288.6	283.8	278.9	274.0
80.0	312.1	307.3	302.4	297.6	292.7	287.7	282.8	277.7	272.7
85.0	311.6	306.7	301.7	296.8	291.7	286.7	281.6	276.5	271.3

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 110.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	144.9	131.6	125.3	121.7	119.3	117.6	116.3	115.3	114.5
10.0	158.0	144.6	136.3	130.9	127.0	124.2	121.9	120.1	118.5
15.0	164.1	152.4	144.1	137.9	133.3	129.6	126.7	124.2	122.1
20.0	167.5	157.4	149.5	143.3	138.3	134.2	130.8	127.8	125.2
25.0	169.6	160.9	153.5	147.4	142.3	138.0	134.2	130.9	127.9
30.0	171.1	163.3	156.5	150.6	145.5	141.0	137.1	133.5	130.3
35.0	172.2	165.1	158.8	153.1	148.1	143.6	139.5	135.7	132.3
40.0	173.0	166.5	160.5	155.1	150.2	145.7	141.5	137.6	133.9
45.0	173.6	167.5	161.9	156.7	151.9	147.4	143.1	139.1	135.3
50.0	174.0	168.4	163.0	158.0	153.2	148.7	144.4	140.3	136.4
55.0	174.4	169.0	163.9	159.0	154.3	149.8	145.5	141.3	137.2
60.0	174.7	169.5	164.6	159.8	155.1	150.6	146.3	142.0	137.8
65.0	174.9	169.9	165.1	160.4	155.8	151.3	146.9	142.5	138.2
70.0	175.1	170.2	165.5	160.8	156.2	151.7	147.2	142.8	138.4
75.0	175.2	170.4	165.7	161.1	156.5	151.9	147.4	322.8	318.3
80.0	175.3	170.5	165.9	161.2	156.6	332.0	327.3	322.7	318.0
85.0	175.3	170.6	345.9	341.2	336.5	331.8	327.1	322.3	317.5

  

DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	113.8	113.1	112.6	112.1	111.6	111.2	110.8	110.3	289.9
10.0	117.2	116.0	114.9	114.0	113.1	112.2	111.4	110.5	289.7
15.0	120.2	118.6	117.0	115.6	114.3	113.0	111.8	290.6	289.4
20.0	112.9	120.8	118.9	117.1	115.4	113.7	112.1	290.5	288.9
25.0	125.3	122.8	120.5	118.4	116.3	114.2	112.3	290.3	288.3
30.0	127.3	124.5	121.9	119.4	117.0	114.6	292.2	289.9	287.5
35.0	129.0	126.0	123.0	120.2	117.5	114.8	292.1	289.4	286.6
40.0	130.5	127.2	124.0	120.9	117.8	294.8	291.8	288.7	285.6
45.0	131.6	128.1	124.7	121.3	118.0	294.7	291.3	287.9	284.4
50.0	132.6	128.8	125.2	121.6	298.0	294.3	290.7	287.0	283.2
55.0	133.2	129.3	125.5	301.6	297.7	293.9	289.9	285.9	281.8
60.0	133.7	129.6	305.5	301.5	297.4	293.2	289.0	284.7	280.3
65.0	133.9	309.7	305.4	301.1	296.8	292.4	287.9	283.4	278.7
70.0	313.9	309.5	305.1	300.6	296.0	291.4	286.7	282.0	277.1
75.0	313.7	309.1	304.5	299.8	295.1	290.3	285.4	280.4	275.4
80.0	313.3	308.6	303.8	298.9	294.0	289.0	283.9	278.8	273.6
85.0	312.7	307.7	302.8	297.7	292.7	287.5	282.3	277.1	271.8



ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 115.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	147.4	135.3	129.5	126.1	123.9	122.3	121.0	120.1	119.3
10.0	159.3	147.1	139.6	134.6	131.0	128.3	126.2	124.5	123.1
15.0	164.9	154.2	146.6	141.0	136.7	133.4	130.6	128.3	126.4
20.0	168.1	158.8	151.6	145.9	141.3	137.5	134.3	131.6	129.2
25.0	170.1	161.9	155.2	149.6	144.9	140.9	137.4	134.4	131.6
30.0	171.5	164.2	157.9	152.5	147.8	143.7	140.0	136.7	133.7
35.0	172.5	165.9	160.0	154.8	150.1	145.9	142.1	138.6	135.4
40.0	173.3	167.1	161.6	156.6	152.0	147.8	143.9	140.3	136.8
45.0	173.8	168.1	162.9	158.0	153.5	149.3	145.3	141.6	138.0
50.0	174.3	168.9	163.9	159.1	154.7	150.4	146.4	142.6	138.9
55.0	174.6	169.5	164.6	160.0	155.6	151.4	147.3	143.4	139.5
60.0	174.9	170.0	165.3	160.7	156.3	152.1	148.0	143.9	139.9
65.0	175.1	170.3	165.7	161.2	156.9	152.6	148.4	144.2	140.1
70.0	175.2	170.6	166.1	161.6	157.2	152.9	148.6	144.4	320.1
75.0	175.4	170.8	166.3	161.8	157.4	153.0	328.7	324.3	319.9
80.0	175.4	170.9	166.4	161.9	337.5	333.0	328.5	324.0	319.4
85.0	175.5	170.9	346.4	341.9	337.4	332.8	328.2	323.5	318.7
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	118.6	118.0	117.5	117.0	116.5	116.1	115.7	115.3	294.9
10.0	121.8	120.7	119.7	118.7	117.9	117.0	116.2	115.5	294.7
15.0	124.6	123.0	121.6	120.3	119.0	117.8	116.6	295.4	294.2
20.0	127.0	125.1	123.3	121.6	119.9	118.3	116.8	295.2	293.7
25.0	129.1	126.8	124.7	122.6	120.6	118.7	296.8	294.9	292.9
30.0	130.9	128.3	125.8	123.5	121.2	118.9	296.6	294.3	292.0
35.0	132.4	129.5	126.8	124.1	121.5	298.9	296.3	293.6	290.9
40.0	133.6	130.5	127.5	124.5	121.6	298.7	295.7	292.7	289.7
45.0	134.5	131.2	128.0	124.7	301.5	298.3	295.0	291.7	288.2
50.0	135.3	131.7	128.2	304.8	301.3	297.8	294.2	290.5	286.7
55.0	135.7	132.0	308.3	304.6	300.8	297.0	293.1	289.1	285.0
60.0	136.0	312.1	308.1	304.2	300.2	296.1	291.9	287.6	283.1
65.0	316.0	311.9	307.8	303.6	299.3	294.9	290.5	285.9	281.1
70.0	315.8	311.5	307.2	302.7	298.2	293.6	288.9	284.0	279.1
75.0	315.4	310.9	306.4	301.7	297.0	292.1	287.2	282.1	276.9
80.0	314.8	310.1	305.3	300.4	295.5	290.4	285.2	280.0	274.6
85.0	313.9	309.0	304.0	299.0	293.8	288.5	283.2	277.8	272.3

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 120.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	149.9	138.9	133.6	130.4	128.3	126.9	125.7	124.8	124.1
10.0	160.7	149.6	142.8	138.2	135.0	132.5	130.5	128.9	127.6
15.0	165.9	156.1	149.1	144.0	140.2	137.1	134.6	132.4	130.6
20.0	168.8	160.2	153.6	148.4	144.3	140.8	137.9	135.4	133.2
25.0	170.7	163.1	156.9	151.9	147.5	143.8	140.7	137.9	135.3
30.0	172.0	165.2	159.4	154.4	150.1	146.3	142.9	139.9	137.1
35.0	172.9	166.7	161.2	156.4	152.2	148.3	144.8	141.6	138.6
40.0	173.6	167.9	162.7	158.1	153.8	149.9	146.4	143.0	139.8
45.0	174.1	168.8	163.9	159.3	155.1	151.2	147.6	144.1	140.8
50.0	174.6	169.5	164.8	160.4	156.2	152.3	148.5	144.9	141.5
55.0	174.9	170.0	165.5	161.2	157.0	153.1	149.3	145.6	141.9
60.0	175.1	170.5	166.0	161.8	157.7	153.7	149.8	146.0	142.2
65.0	175.3	170.8	166.5	162.2	158.1	154.1	150.1	146.2	322.2
70.0	175.5	171.1	166.8	162.5	158.4	154.3	150.2	326.1	322.1
75.0	175.6	171.2	166.9	162.7	158.5	334.3	330.1	325.9	321.7
80.0	175.6	171.3	167.0	342.8	338.5	334.2	329.9	325.5	321.1
85.0	175.7	351.4	347.0	342.7	338.3	333.9	329.4	324.9	320.2
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	123.4	122.8	122.3	121.9	121.5	121.1	120.7	120.3	299.9
10.0	126.4	125.3	124.4	123.5	122.7	121.9	121.1	300.4	299.6
15.0	129.0	127.5	126.1	124.9	123.7	122.5	121.4	300.3	299.1
20.0	131.2	129.3	127.6	126.0	124.5	123.0	301.5	300.0	298.5
25.0	133.0	130.9	128.8	126.9	125.0	123.2	301.4	299.5	297.6
30.0	134.6	132.1	129.8	127.6	125.4	303.2	301.0	298.8	296.6
35.0	135.8	133.1	130.5	128.0	125.5	303.0	300.5	298.0	295.3
40.0	136.8	133.9	131.0	128.3	305.5	302.7	299.8	296.9	293.9
45.0	137.6	134.4	131.3	308.3	305.2	302.1	298.9	295.6	292.2
50.0	136.1	134.7	311.4	308.1	304.7	301.3	297.8	294.2	290.4
55.0	138.4	314.8	311.3	307.7	304.0	300.3	296.5	292.5	288.3
60.0	318.4	314.7	310.9	307.1	303.1	299.1	294.9	290.6	286.1
65.0	318.3	314.3	310.3	306.2	302.0	297.7	293.2	288.5	283.7
70.0	317.9	313.7	309.5	305.1	300.6	296.0	291.2	286.3	281.2
75.0	317.3	312.9	308.4	303.8	299.0	294.1	289.1	283.9	278.5
80.0	316.5	311.9	307.1	302.2	297.2	292.0	286.7	281.3	275.7
85.0	315.4	310.6	305.5	300.4	295.1	289.7	284.2	276.6	272.9

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 125.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	152.4	142.5	137.6	134.7	132.8	131.4	130.3	129.5	128.8
10.0	162.2	152.1	146.0	141.8	138.8	136.6	134.8	133.3	132.0
15.0	166.9	157.9	151.7	147.1	143.6	140.7	138.4	136.5	134.8
20.0	169.6	161.7	155.7	151.0	147.2	144.1	141.4	139.1	137.1
25.0	171.3	164.3	158.7	154.0	150.1	146.8	143.9	141.3	139.0
30.0	172.5	166.2	160.9	156.3	152.4	149.0	145.9	143.1	140.6
35.0	173.3	167.6	162.6	158.2	154.3	150.8	147.6	144.6	141.9
40.0	174.0	168.7	163.9	159.6	155.7	152.2	148.9	145.8	142.9
45.0	174.5	169.5	164.9	160.8	156.9	153.3	149.9	146.7	143.6
50.0	174.9	170.1	165.8	161.7	157.8	154.2	150.8	147.4	144.2
55.0	175.2	170.6	166.4	162.4	158.6	154.9	151.3	147.9	144.5
60.0	175.4	171.0	166.9	162.9	159.1	155.4	151.7	148.2	144.6
65.0	175.6	171.3	167.3	163.3	159.5	155.7	151.9	328.2	324.5
70.0	175.7	171.6	167.5	163.6	159.7	155.8	332.0	328.1	324.2
75.0	175.8	171.7	167.7	163.7	159.7	335.8	331.8	327.8	323.7
80.0	175.9	171.8	167.8	343.7	339.7	335.6	331.5	327.2	322.9
85.0	175.9	351.8	347.7	343.6	339.5	335.2	330.9	326.5	321.9
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	128.2	127.7	127.2	126.8	126.4	126.0	125.6	125.3	304.9
10.0	130.9	130.0	129.1	128.3	127.5	126.7	126.0	305.3	304.6
15.0	133.3	131.9	130.7	129.5	128.4	127.3	126.2	305.1	304.1
20.0	135.2	133.5	132.0	130.5	129.0	127.6	306.2	304.8	303.3
25.0	136.9	134.9	133.0	131.2	129.4	127.7	306.0	304.2	302.4
30.0	138.2	136.0	133.8	131.7	129.6	307.6	305.5	303.4	301.2
35.0	139.3	136.8	134.4	132.0	309.6	307.3	304.9	302.4	299.8
40.0	140.1	137.4	134.7	312.1	309.4	306.7	304.0	301.2	298.2
45.0	140.6	137.7	134.8	311.9	309.0	306.0	302.9	299.7	296.3
50.0	141.0	137.9	314.7	311.5	308.3	305.0	301.6	298.0	294.2
55.0	141.1	317.8	314.4	311.0	307.4	303.8	300.0	296.1	291.9
60.0	321.1	317.5	313.8	310.1	306.3	302.3	298.2	293.9	289.3
65.0	320.8	317.0	313.1	309.1	304.9	300.6	296.2	291.4	286.5
70.0	320.2	316.2	312.0	307.8	303.3	298.7	293.8	288.8	283.5
75.0	319.5	315.2	310.8	306.2	301.4	296.4	291.3	285.9	280.3
80.0	318.5	313.9	309.2	304.3	299.2	293.9	288.4	282.8	276.9
85.0	317.2	312.4	307.3	302.1	296.7	291.2	285.4	279.5	273.5

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 130.0

260

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	154.9	146.0	141.6	139.0	137.2	135.9	135.0	134.2	133.3
10.0	163.7	154.7	149.1	145.4	142.7	140.6	139.0	137.6	136.5
15.0	167.9	159.9	154.2	150.1	146.9	144.4	142.3	140.5	139.0
20.0	170.4	163.2	157.8	153.6	150.2	147.4	145.0	142.9	141.0
25.0	171.9	165.6	160.5	156.3	152.8	149.8	147.1	144.8	142.7
30.0	173.0	167.3	162.5	158.4	154.8	151.7	148.9	146.4	144.1
35.0	173.8	168.5	164.0	160.0	156.4	153.3	150.3	147.7	145.1
40.0	174.4	169.5	165.2	161.3	157.7	154.5	151.5	148.7	146.0
45.0	174.9	170.3	166.1	162.3	158.8	155.5	152.4	149.4	146.6
50.0	175.2	170.9	166.8	163.1	159.6	156.2	153.1	150.0	147.0
55.0	175.5	171.3	167.4	163.7	160.2	156.8	153.5	150.3	147.2
60.0	175.7	171.7	167.8	164.2	160.6	157.2	153.8	150.5	147.2
65.0	175.9	171.9	168.2	164.5	160.9	157.4	153.9	150.5	147.2
70.0	176.0	172.1	168.4	164.7	161.1	157.5	154.0	150.6	147.3
75.0	176.1	172.3	168.5	164.8	161.2	157.6	154.1	150.7	147.4
80.0	176.1	172.3	168.6	164.8	161.2	157.6	154.1	150.7	147.4
85.0	176.2	352.4	348.5	344.7	340.7	336.7	332.6	328.4	323.9
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	133.0	132.5	132.0	131.6	131.3	130.9	130.6	130.2	309.9
10.0	135.5	134.6	133.7	133.0	132.3	131.6	130.9	130.2	309.6
15.0	137.6	136.3	135.2	134.1	133.0	132.0	131.0	130.0	309.0
20.0	139.3	137.8	136.3	134.9	133.6	132.2	130.9	309.6	308.3
25.0	140.7	138.9	137.2	135.5	133.9	312.2	310.6	309.0	307.3
30.0	141.9	139.8	137.8	135.9	314.0	312.0	310.1	308.1	306.0
35.0	142.8	140.5	138.2	136.0	313.8	311.6	309.3	307.0	304.5
40.0	143.4	140.9	138.4	316.0	313.5	310.9	308.3	305.6	302.7
45.0	143.8	141.1	318.4	315.7	312.9	310.1	307.1	304.0	300.7
50.0	144.0	321.1	318.2	315.2	312.1	308.9	305.6	302.1	298.3
55.0	324.0	320.9	317.7	314.4	311.0	307.5	303.8	299.9	295.7
60.0	323.8	320.5	317.0	313.4	309.7	305.8	301.8	297.4	292.8
65.0	323.4	319.8	316.1	312.2	308.1	303.9	299.4	294.6	289.5
70.0	322.8	318.9	314.9	310.7	306.3	301.6	296.7	291.5	286.0
75.0	321.9	317.7	313.4	308.8	304.1	299.0	293.7	288.1	282.3
80.0	320.8	316.3	311.6	306.7	301.5	296.1	290.4	284.5	278.3
85.0	319.3	314.5	309.5	304.2	298.7	292.9	286.8	280.6	274.2

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 135.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	157.4	149.5	145.5	143.2	141.6	140.4	139.5	138.8	138.2
10.0	165.2	157.2	152.3	148.9	146.5	144.7	143.2	141.9	140.9
15.0	169.0	161.8	156.8	153.1	150.3	148.0	146.1	144.5	143.1
20.0	171.2	164.8	160.0	156.2	153.2	150.6	148.5	146.6	144.9
25.0	172.6	166.9	162.3	158.6	155.4	152.7	150.4	148.3	146.4
30.0	173.6	168.4	164.1	160.4	157.2	154.4	151.9	149.7	147.6
35.0	174.3	169.5	165.4	161.8	158.7	155.8	153.2	150.8	148.5
40.0	174.9	170.4	166.5	163.0	159.8	156.9	154.2	151.6	149.2
45.0	175.3	171.1	167.3	163.9	160.7	157.7	154.9	152.2	149.6
50.0	175.6	171.6	168.0	164.6	161.4	158.3	155.5	152.7	149.9
55.0	175.9	172.0	168.5	165.1	161.9	158.8	155.8	152.9	330.0
60.0	176.1	172.4	168.8	165.5	162.3	159.1	156.0	333.0	329.9
65.0	176.2	172.6	169.1	165.8	162.5	159.3	336.1	332.9	329.6
70.0	176.3	172.8	169.3	165.9	162.6	339.3	335.9	332.6	329.1
75.0	176.4	172.9	169.4	166.0	342.6	339.1	335.7	332.1	328.4
80.0	176.4	172.9	349.5	346.0	342.4	338.9	335.2	331.4	327.4
85.0	176.5	352.9	349.4	345.8	342.2	338.4	334.5	330.5	326.2
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	137.7	137.3	136.9	136.5	136.2	135.8	135.5	135.2	314.9
10.0	140.0	139.2	138.4	137.7	137.0	136.4	135.8	315.2	314.6
15.0	141.9	140.7	139.7	138.7	137.7	136.8	315.9	314.9	314.0
20.0	143.4	142.0	140.6	139.4	138.1	136.9	315.7	314.5	313.2
25.0	144.6	143.0	141.4	139.8	138.3	316.8	315.3	313.8	312.2
30.0	145.6	143.7	141.9	140.1	318.3	316.5	314.7	312.9	310.9
35.0	146.3	144.2	142.2	320.1	318.1	316.0	313.9	311.7	309.3
40.0	146.8	144.5	322.2	320.0	317.6	315.3	312.8	310.2	307.5
45.0	147.1	324.6	322.1	319.6	317.0	314.3	311.5	308.5	305.3
50.0	327.2	324.5	321.7	318.9	316.0	313.0	309.8	306.4	302.7
55.0	327.1	324.2	321.2	318.1	314.9	311.5	307.9	304.0	299.8
60.0	326.8	323.6	320.4	317.0	313.4	309.6	305.6	301.3	296.6
65.0	326.3	322.9	319.3	315.6	311.6	307.5	303.0	298.1	292.9
70.0	325.5	321.8	318.0	313.9	309.5	304.9	300.0	294.6	288.9
75.0	324.6	320.6	316.3	311.9	307.1	302.0	296.6	290.7	284.5
80.0	323.3	319.0	314.4	309.5	304.2	298.7	292.7	286.5	279.9
85.0	321.8	317.0	312.0	306.7	301.0	294.9	288.6	281.9	275.0

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 140.0

262

DELTA  
BETA:

	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	159.9	152.9	149.4	147.3	145.9	144.9	144.1	143.4	142.9
10.0	166.8	159.7	155.4	152.4	150.3	148.7	147.3	146.2	145.3
15.0	170.1	163.8	159.4	156.1	153.6	151.6	149.9	148.5	147.2
20.0	172.1	166.4	162.2	158.8	156.1	153.9	152.0	150.3	148.8
25.0	173.4	168.3	164.2	160.9	158.1	155.7	153.7	151.8	150.1
30.0	174.2	169.6	165.7	162.5	159.7	157.2	155.0	153.0	151.1
35.0	174.9	170.6	166.9	163.7	160.9	158.4	156.0	153.9	151.8
40.0	175.4	171.4	167.9	164.7	161.9	159.3	156.9	154.6	152.4
45.0	175.7	172.0	168.6	165.5	162.7	160.0	157.5	155.1	152.8
50.0	176.0	172.4	169.1	166.1	163.2	160.5	157.9	155.4	152.9
55.0	176.2	172.8	169.6	166.6	163.7	160.9	158.2	155.6	332.9
60.0	176.4	173.1	169.9	166.9	164.0	161.2	158.4	335.6	332.8
65.0	176.6	173.3	170.2	167.1	164.2	161.2	338.3	335.4	332.4
70.0	176.7	173.4	170.3	167.3	164.2	341.2	338.2	335.1	331.9
75.0	176.7	173.5	170.4	347.3	344.2	341.0	337.8	334.5	331.1
80.0	176.8	173.6	350.4	347.2	344.0	340.7	337.3	333.8	330.1
85.0	176.8	353.6	350.4	347.1	343.7	340.3	336.7	332.9	328.8

DELTA  
BETA:

	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	142.5	142.0	141.7	141.4	141.0	140.7	140.5	140.2	319.9
10.0	144.5	143.7	143.1	142.4	141.8	141.3	140.7	320.1	319.6
15.0	146.1	145.1	144.1	143.2	142.4	141.5	320.7	319.9	319.0
20.0	147.4	146.2	145.0	143.8	142.7	321.6	320.5	319.4	318.2
25.0	148.5	147.0	145.6	144.2	142.8	321.5	320.1	318.7	317.2
30.0	149.3	147.6	146.0	144.4	322.8	321.1	319.5	317.7	315.9
35.0	149.9	148.0	146.2	324.3	322.5	320.6	318.6	316.5	314.3
40.0	150.3	148.2	326.1	324.1	321.9	319.7	317.4	315.0	312.4
45.0	150.5	328.2	325.9	323.6	321.2	318.7	316.0	313.2	310.1
50.0	330.5	328.0	325.5	322.9	320.2	317.3	314.3	311.0	307.5
55.0	330.3	327.6	324.8	322.0	318.9	315.7	312.2	308.5	304.4
60.0	329.9	327.0	323.9	320.8	317.4	313.7	309.8	305.5	300.8
65.0	329.3	326.1	322.8	319.3	315.5	311.4	307.0	302.1	296.7
70.0	328.5	325.1	321.4	317.4	313.2	308.6	303.6	298.2	292.2
75.0	327.5	323.7	319.6	315.3	310.5	305.4	299.8	293.7	287.1
80.0	326.2	322.0	317.5	312.7	307.4	301.7	295.5	288.8	281.7
85.0	324.5	319.9	315.0	309.6	303.7	297.4	290.7	283.5	275.9

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 145.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	162.4	156.4	153.3	151.5	150.2	149.3	148.6	148.1	147.6
10.0	168.4	162.2	158.5	155.9	154.1	152.6	151.5	150.5	149.7
15.0	171.3	165.8	161.9	159.1	156.9	155.2	153.7	152.5	151.4
20.0	173.0	168.0	164.3	161.5	159.1	157.2	155.5	154.0	152.7
25.0	174.1	169.6	166.1	163.2	160.8	158.7	156.9	155.3	153.8
30.0	174.9	170.8	167.4	164.6	162.2	160.0	158.1	156.3	154.6
35.0	175.5	171.7	168.5	165.7	163.2	161.0	158.9	157.1	155.3
40.0	175.9	172.4	169.3	166.5	164.0	161.8	159.6	157.6	155.7
45.0	176.2	172.9	169.9	167.2	164.7	162.4	160.2	158.0	156.0
50.0	176.5	173.3	170.4	167.7	165.2	162.8	160.5	158.3	156.1
55.0	176.7	173.6	170.8	168.1	165.6	163.1	160.7	158.4	156.0
60.0	176.8	173.8	171.0	168.4	165.8	163.3	160.8	338.3	335.8
65.0	176.9	174.0	171.3	168.6	165.9	343.3	340.7	338.1	335.4
70.0	177.0	174.2	171.4	168.7	346.0	343.3	340.5	337.7	334.8
75.0	177.1	174.2	171.5	348.7	345.9	343.1	340.2	337.2	334.0
80.0	177.1	174.3	351.5	348.6	345.7	342.8	339.7	336.4	333.0
85.0	177.1	354.3	351.4	348.5	345.4	342.3	339.0	335.5	331.8
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	147.2	146.8	146.5	146.2	145.9	145.7	145.4	145.1	324.9
10.0	148.9	148.3	147.7	147.1	146.6	146.1	145.6	325.1	324.6
15.0	150.4	149.5	148.6	147.8	147.1	146.3	325.6	324.8	324.1
20.0	151.5	150.4	149.3	148.3	147.3	326.3	325.4	324.3	323.3
25.0	152.4	151.1	149.8	148.6	327.4	326.2	324.9	323.6	322.3
30.0	153.1	151.6	150.1	328.7	327.2	325.8	324.3	322.7	321.0
35.0	153.5	151.9	150.2	328.6	326.9	325.2	323.4	321.5	319.5
40.0	153.8	152.0	330.1	328.3	326.3	324.4	322.3	320.0	317.6
45.0	153.9	331.9	329.8	327.7	325.6	323.3	320.8	318.2	315.3
50.0	333.9	331.6	329.4	327.0	324.5	321.9	319.1	316.0	312.6
55.0	333.6	331.2	328.7	326.0	323.2	320.2	317.0	313.4	309.3
60.0	333.2	330.6	327.8	324.8	321.6	318.2	314.4	310.2	305.5
65.0	332.6	329.7	326.6	323.3	319.7	315.8	311.4	306.6	301.1
70.0	331.8	328.6	325.1	321.4	317.3	312.8	307.9	302.3	296.0
75.0	330.7	327.2	323.3	319.1	314.5	309.4	303.7	297.3	290.3
80.0	329.4	325.4	321.1	316.4	311.1	305.3	298.8	291.7	283.9
85.0	327.7	323.3	318.4	313.1	307.1	300.5	293.3	285.5	277.1

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 150.0

264

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	164.9	159.8	157.2	155.6	154.5	153.7	153.1	152.6	152.2
10.0	170.0	164.8	161.6	159.4	157.8	156.6	155.6	154.7	154.0
15.0	172.5	167.8	164.5	162.1	160.2	158.7	157.5	156.4	155.5
20.0	174.0	169.7	166.5	164.1	162.1	160.4	159.0	157.7	156.6
25.0	174.9	171.1	168.0	165.6	163.5	161.8	160.2	158.8	157.5
30.0	175.6	172.1	169.2	166.8	164.7	162.8	161.1	159.6	158.2
35.0	176.1	172.8	170.0	167.7	165.5	163.6	161.9	160.3	158.7
40.0	176.4	173.4	170.7	168.4	166.2	164.3	162.5	160.7	159.1
45.0	176.7	173.8	171.3	168.9	166.8	164.8	162.9	161.0	159.2
50.0	176.9	174.2	171.7	169.4	167.2	165.1	163.1	161.2	339.3
55.0	177.1	174.4	172.0	169.7	167.5	165.4	163.3	341.3	339.2
60.0	177.2	174.7	172.2	169.9	167.7	165.5	343.3	341.2	338.9
65.0	177.3	174.8	172.4	170.1	167.8	345.5	343.2	340.9	338.6
70.0	177.4	174.9	172.5	170.1	347.8	345.4	343.0	340.6	338.0
75.0	177.5	175.0	172.6	350.1	347.7	345.2	342.7	340.0	337.2
80.0	177.5	175.0	352.6	350.1	347.5	344.9	342.2	339.3	336.2
85.0	177.5	355.0	352.5	349.9	347.3	344.5	341.5	338.4	335.0
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	151.9	151.6	151.3	151.0	150.8	150.6	150.3	150.1	329.9
10.0	153.4	152.8	152.3	151.8	151.4	150.9	150.5	330.1	329.6
15.0	154.6	153.8	153.1	152.4	151.8	151.1	330.5	329.8	329.1
20.0	155.6	154.6	153.7	152.8	151.9	331.1	330.2	329.3	328.4
25.0	156.3	155.2	154.1	153.0	332.0	330.9	329.8	328.7	327.5
30.0	156.9	155.6	154.3	333.0	331.8	330.5	329.2	327.8	326.3
35.0	157.2	155.8	334.3	332.9	331.4	329.9	328.3	326.6	324.8
40.0	157.4	335.8	334.2	332.6	330.9	329.1	327.2	325.2	323.0
45.0	337.5	335.7	333.9	332.0	330.1	328.1	325.8	323.4	320.8
50.0	337.4	335.4	333.4	331.3	329.1	326.7	324.1	321.3	318.1
55.0	337.1	335.0	332.7	330.4	327.8	325.1	322.1	318.7	314.8
60.0	336.7	334.3	331.8	329.1	326.2	323.1	319.5	315.5	310.9
65.0	336.1	333.4	330.7	327.6	324.3	320.6	316.4	311.7	306.2
70.0	335.3	332.3	329.2	325.8	321.9	317.6	312.7	307.1	300.6
75.0	334.2	331.0	327.4	323.5	319.0	314.0	308.3	301.7	294.1
80.0	332.9	329.2	325.2	320.6	315.5	309.6	302.9	295.3	286.7
85.0	331.3	327.1	322.5	317.2	311.2	304.4	296.7	288.0	278.6



ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 155.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	167.5	163.2	161.0	159.7	158.8	158.1	157.6	157.2	156.9
10.0	171.6	167.3	164.7	162.9	161.5	160.5	159.7	159.0	158.4
15.0	173.7	169.8	167.1	165.1	163.5	162.3	161.3	160.4	159.6
20.0	174.9	171.4	168.8	166.7	165.1	163.7	162.5	161.4	160.5
25.0	175.7	172.5	170.0	168.0	166.3	164.8	163.5	162.3	161.2
30.0	176.3	173.3	170.9	168.9	167.2	165.5	164.3	163.0	161.8
35.0	176.7	174.0	171.7	169.7	167.9	166.3	164.9	163.5	162.2
40.0	177.0	174.4	172.2	170.3	168.5	166.8	165.3	163.9	162.5
45.0	177.2	174.8	172.7	170.7	168.9	167.2	165.6	164.1	162.6
50.0	177.4	175.1	173.0	171.1	169.2	167.5	165.9	164.2	162.6
55.0	177.6	175.3	173.3	171.3	169.5	167.7	166.0	344.2	342.5
60.0	177.7	175.5	173.5	171.5	169.6	167.8	346.0	344.1	342.2
65.0	177.7	175.6	173.6	171.6	169.7	347.8	345.9	343.9	341.9
70.0	117.8	175.7	173.7	171.7	349.7	347.7	345.7	343.5	341.3
75.0	177.9	175.8	173.7	351.7	349.6	347.5	345.3	343.0	340.6
80.0	177.9	175.8	353.7	351.6	349.5	347.2	344.9	342.4	339.7
85.0	177.9	355.8	353.6	351.5	349.2	346.8	344.3	341.5	338.5
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	156.6	156.3	156.1	155.9	155.7	155.5	155.3	155.1	334.9
10.0	157.9	157.4	156.9	156.5	156.1	155.8	155.4	335.0	334.7
15.0	158.9	158.2	157.6	157.0	156.4	155.9	335.4	334.8	334.2
20.0	159.6	158.8	158.1	157.3	156.6	335.9	335.1	334.4	333.6
25.0	160.2	159.3	158.4	157.5	336.6	335.7	334.7	333.8	332.8
30.0	160.7	159.6	158.5	337.5	336.4	335.3	334.2	333.0	331.7
35.0	160.9	159.7	338.5	337.3	336.0	334.8	333.4	331.9	330.3
40.0	161.1	339.7	338.4	337.0	335.5	334.0	332.4	330.6	328.7
45.0	341.1	339.6	338.1	336.5	334.8	333.0	331.1	329.0	326.6
50.0	341.0	339.3	337.6	335.8	333.9	331.8	329.5	327.0	324.0
55.0	340.7	338.9	336.9	334.9	332.7	330.2	327.5	324.5	320.9
60.0	340.3	338.3	336.1	333.8	331.2	328.3	325.1	321.4	317.0
65.0	339.7	337.4	335.0	332.3	329.3	326.0	322.1	317.6	312.2
70.0	339.0	336.4	333.6	330.5	327.0	323.0	318.4	312.9	306.3
75.0	338.0	335.1	331.9	328.3	324.2	319.4	313.8	307.1	299.0
80.0	336.8	333.5	329.8	325.6	320.7	314.9	308.1	300.0	290.4
85.0	335.2	331.4	327.1	322.1	316.3	309.3	301.1	291.5	280.6

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA - ALPHA = 160.0

266

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	170.0	166.6	164.8	163.8	163.1	162.5	162.1	161.8	161.5
10.0	173.3	169.8	167.7	166.3	165.2	164.4	163.7	163.2	162.7
15.0	174.9	171.8	169.7	168.1	166.8	165.8	165.0	164.3	163.7
20.0	175.9	173.1	171.0	169.4	168.1	166.9	166.0	165.2	164.4
25.0	176.6	174.0	172.0	170.4	169.0	167.8	166.8	165.8	165.0
30.0	177.0	174.6	172.7	171.1	169.7	168.5	167.4	166.4	165.4
35.0	177.3	175.1	173.3	171.7	170.3	169.0	167.9	166.8	165.7
40.0	177.6	175.5	173.7	172.2	170.7	169.4	168.2	167.0	165.9
45.0	177.8	175.8	174.1	172.5	171.1	169.7	168.5	167.2	166.0
50.0	177.9	176.0	174.4	172.8	171.3	170.0	168.6	167.3	166.0
55.0	178.0	176.2	174.6	173.0	171.5	170.1	168.7	167.3	166.0
60.0	178.1	176.4	174.7	173.2	171.6	170.2	348.7	347.2	345.6
65.0	178.2	176.5	174.8	173.2	171.7	350.1	348.6	347.0	345.3
70.0	178.2	176.5	174.9	173.3	351.7	350.0	348.4	346.7	344.8
75.0	178.3	176.6	174.9	353.3	351.6	349.9	348.1	346.2	344.2
80.0	178.3	176.6	354.9	353.2	351.5	349.6	347.7	345.6	343.4
85.0	178.3	356.6	354.9	353.1	351.2	349.3	347.2	344.9	342.4
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	161.3	161.1	160.9	160.7	160.5	160.4	160.2	160.1	339.9
10.0	162.3	161.9	161.6	161.2	160.9	160.6	160.3	340.0	339.7
15.0	163.1	162.6	162.1	161.6	161.2	160.7	340.3	339.8	339.4
20.0	163.7	163.1	162.4	161.8	161.2	340.7	340.1	339.5	338.8
25.0	164.2	163.4	162.7	161.9	341.2	340.5	339.7	338.9	338.1
30.0	164.5	163.6	162.8	341.9	341.0	340.2	339.2	338.3	337.2
35.0	164.7	163.7	342.7	341.8	340.7	339.7	338.6	337.4	336.0
40.0	164.8	343.7	342.6	341.5	340.3	339.0	337.7	336.2	334.6
45.0	334.8	343.6	342.3	341.0	339.6	338.2	336.6	334.8	332.8
50.0	344.7	343.3	341.9	340.4	338.8	337.1	335.2	333.0	330.5
55.0	344.4	342.9	341.3	339.6	337.8	335.7	333.4	330.7	327.6
60.0	344.0	342.4	340.6	338.6	336.5	334.0	331.2	327.9	323.9
65.0	343.5	341.7	339.6	337.4	334.8	331.9	328.4	324.3	319.3
70.0	342.9	340.7	338.4	335.8	332.7	329.2	324.9	319.7	313.2
75.0	342.0	339.6	336.9	333.8	330.1	325.7	320.4	313.8	305.4
80.0	340.9	338.1	334.9	331.2	326.7	321.3	314.6	306.1	295.5
85.0	339.6	336.3	332.5	328.5	322.4	315.6	307.0	296.3	283.5

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 165.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	172.5	169.9	168.6	167.8	167.3	166.9	166.6	166.4	166.1
10.0	175.0	172.4	170.8	169.7	168.9	168.5	167.8	167.4	167.0
15.0	176.2	173.8	172.2	171.1	170.1	169.4	168.8	168.2	167.7
20.0	176.9	174.8	173.2	172.3	171.0	170.2	169.5	168.9	168.3
25.0	177.4	175.5	174.0	172.8	171.7	170.9	170.1	169.4	168.7
30.0	177.7	176.0	174.5	173.3	172.3	171.4	170.5	169.8	169.0
35.0	178.0	176.3	175.0	173.8	172.7	171.7	170.9	170.0	169.3
40.0	178.2	176.6	175.3	174.1	173.0	172.0	171.1	170.2	169.4
45.0	178.3	176.8	175.5	174.4	173.3	172.3	171.3	170.4	169.5
50.0	178.4	177.0	175.7	174.6	173.5	172.4	171.4	170.4	349.4
55.0	178.5	177.2	175.9	174.7	173.6	172.5	171.5	350.4	349.3
60.0	178.6	177.3	176.0	174.8	173.7	172.6	351.4	350.3	349.1
65.0	178.6	177.3	176.1	174.9	173.7	352.5	351.4	350.1	348.9
70.0	178.7	177.4	176.1	174.9	353.7	352.5	351.2	349.9	348.5
75.0	178.7	177.4	176.2	354.9	353.6	352.3	351.0	349.5	348.0
80.0	178.7	177.4	356.1	354.9	353.5	352.1	350.7	349.1	347.3
85.0	178.7	357.4	356.1	354.8	353.4	351.9	350.3	348.5	346.5
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	166.0	165.8	165.7	165.5	165.4	165.3	165.2	165.1	344.9
10.0	166.7	166.4	166.2	165.9	165.7	165.5	165.2	345.0	344.8
15.0	167.3	166.9	166.6	166.2	165.9	165.5	345.2	344.8	344.5
20.0	167.8	167.3	166.8	166.4	165.9	345.5	345.0	344.6	344.1
25.0	168.1	167.5	167.0	166.4	345.9	345.3	344.8	344.2	343.5
30.0	168.4	167.7	167.0	346.4	345.7	345.1	344.4	343.6	342.8
35.0	168.5	167.8	347.0	346.3	345.5	344.7	343.8	342.9	341.9
40.0	168.6	347.7	346.9	346.0	345.1	344.2	343.1	342.0	340.7
45.0	348.5	347.6	346.7	345.7	344.6	343.5	342.2	340.8	339.2
50.0	348.4	347.4	346.3	345.2	344.0	342.6	341.1	339.4	337.4
55.0	348.2	347.1	345.9	344.5	343.1	341.5	339.7	337.5	335.0
60.0	347.9	346.6	345.2	343.7	342.0	340.1	337.8	335.1	331.8
65.0	347.5	346.1	344.5	342.7	340.7	338.3	335.5	332.0	327.6
70.0	347.0	345.3	343.5	341.4	338.9	336.0	332.4	327.9	321.9
75.0	346.3	344.4	342.2	339.7	336.7	333.0	328.4	322.3	314.0
80.0	345.4	343.2	340.6	337.6	333.8	329.1	322.8	314.4	302.9
85.0	344.3	341.7	338.6	334.7	329.9	323.6	315.1	303.5	288.0

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 170.0

268

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	175.0	173.3	172.4	171.9	171.5	171.3	171.1	170.9	170.8
10.0	176.6	174.9	173.9	173.2	172.6	172.2	171.9	171.6	171.4
15.0	177.5	175.9	174.8	174.0	173.4	172.9	172.5	172.2	171.8
20.0	177.9	176.5	175.5	174.7	174.0	173.5	173.0	172.6	172.2
25.0	178.3	177.0	176.0	175.2	174.5	173.9	173.4	172.9	172.5
30.0	178.5	177.3	176.3	175.5	174.8	174.2	173.7	173.2	172.7
35.0	178.6	177.6	176.6	175.8	175.1	174.5	173.9	173.4	172.8
40.0	178.8	177.7	176.8	176.1	175.3	174.7	174.1	173.5	172.9
45.0	178.9	177.9	177.0	176.2	175.5	174.8	174.2	173.6	172.9
50.0	178.9	178.0	177.2	176.4	175.6	174.9	174.3	173.6	352.9
55.0	179.0	178.1	177.3	176.5	175.7	175.0	174.3	353.6	352.8
60.0	179.0	178.2	177.3	176.5	175.8	175.0	354.3	353.5	352.7
65.0	179.1	178.2	177.4	176.6	175.8	355.0	354.2	353.4	352.5
70.0	179.1	178.2	177.4	176.6	355.8	354.9	354.1	353.2	352.3
75.0	179.1	178.3	177.4	356.6	355.7	354.9	353.9	353.0	351.9
80.0	179.1	178.3	357.4	356.5	355.7	354.7	353.7	352.6	351.5
85.0	179.1	358.3	357.4	356.5	355.5	354.5	353.4	352.2	350.9
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	170.6	170.5	170.4	170.4	170.3	170.2	170.1	170.0	350.0
10.0	171.2	171.0	170.8	170.6	170.5	170.3	170.2	350.0	349.8
15.0	171.5	171.3	171.0	170.8	170.6	170.3	350.1	349.9	349.7
20.0	171.8	171.5	171.2	170.9	170.6	350.3	350.0	349.7	349.4
25.0	172.1	171.7	171.3	170.9	350.6	350.2	349.8	349.4	349.0
30.0	172.2	171.8	171.4	350.9	350.5	350.0	349.5	349.0	348.5
35.0	172.3	171.8	351.3	350.8	350.3	349.8	349.2	348.5	347.9
40.0	172.4	351.8	351.2	350.6	350.0	349.4	348.7	347.9	347.0
45.0	352.3	351.7	351.1	350.4	349.7	348.9	348.1	347.1	346.0
50.0	352.2	351.6	350.8	350.1	349.2	348.3	347.3	346.1	344.7
55.0	352.1	351.3	350.5	349.6	348.6	347.5	346.2	344.7	342.9
60.0	351.9	351.0	350.1	349.0	347.9	346.5	344.9	343.0	340.6
65.0	351.6	350.6	349.5	348.3	346.9	345.2	343.2	340.7	337.4
70.0	351.2	350.1	348.8	347.4	345.7	343.6	340.9	337.5	332.7
75.0	350.7	349.4	347.9	346.2	344.0	341.3	337.8	332.9	325.7
80.0	350.1	348.6	346.8	344.6	341.8	338.2	333.3	326.0	314.6
85.0	349.3	347.5	345.3	342.5	338.8	333.8	326.4	314.9	296.3

ERMITTLUNG DER WAHREN FLIESSRICHTUNG

GAMMA – ALPHA = 175.0

DELTA BETA:	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0	45.0
5.0	177.5	176.6	176.2	176.0	175.8	175.6	175.5	175.5	175.4
10.0	178.3	177.5	176.9	176.6	176.3	176.1	175.9	175.8	175.7
15.0	178.7	177.9	177.4	177.0	176.7	176.5	176.3	176.1	175.9
20.0	179.0	178.3	177.7	177.3	177.0	176.7	176.5	176.3	176.1
25.0	179.1	178.5	178.0	177.6	177.2	176.9	176.7	176.5	176.2
30.0	179.2	178.7	178.2	177.8	177.4	177.1	176.8	176.6	176.3
35.0	179.3	178.8	178.3	177.9	177.6	177.2	176.9	176.7	176.4
40.0	179.4	178.9	178.4	178.0	177.7	177.3	177.0	176.7	176.5
45.0	179.4	178.9	178.5	178.1	177.8	177.4	177.1	176.8	176.5
50.0	179.5	179.0	178.6	178.2	177.8	177.5	177.1	176.8	356.5
55.0	179.5	179.0	178.6	178.2	177.9	177.5	177.1	356.8	356.4
60.0	179.5	179.1	178.7	178.3	177.9	177.5	357.1	356.7	356.3
65.0	179.5	179.1	178.7	178.3	177.9	357.5	357.1	356.7	356.2
70.0	179.5	179.1	178.7	178.3	357.9	357.5	357.0	356.6	356.1
75.0	179.6	179.1	178.7	358.3	357.9	357.4	357.0	356.5	355.9
80.0	179.6	179.1	358.7	358.3	357.8	357.3	356.8	356.3	355.7
85.0	179.6	359.1	358.7	358.2	357.8	357.2	356.7	356.1	355.4
DELTA BETA:	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0	90.0
5.0	175.3	175.3	175.2	175.2	175.1	175.1	175.1	175.0	355.0
10.0	175.6	175.5	175.4	175.3	175.2	175.2	175.1	355.0	354.9
15.0	175.8	175.6	175.5	175.4	175.3	175.2	355.1	354.9	354.8
20.0	175.9	175.8	175.6	175.5	175.3	355.2	355.0	354.8	354.7
25.0	176.0	175.8	175.7	175.5	355.3	355.1	354.9	354.7	354.5
30.0	176.1	175.9	175.7	355.5	355.2	355.0	354.8	354.5	354.2
35.0	176.2	175.9	355.7	355.4	355.1	354.9	354.6	354.3	353.9
40.0	176.2	355.9	355.6	355.3	355.0	354.7	354.3	353.9	353.5
45.0	356.2	355.8	355.5	355.2	354.8	354.4	354.0	353.5	352.9
50.0	356.1	355.8	355.4	355.0	354.6	354.1	353.6	353.0	352.2
55.0	356.0	355.6	355.2	354.8	354.3	353.7	353.1	352.3	351.3
60.0	355.9	355.5	355.0	354.5	353.9	353.2	352.4	351.4	350.1
65.0	355.8	355.3	354.7	354.1	353.4	352.5	351.5	350.1	348.3
70.0	355.6	355.0	354.4	353.6	352.7	351.6	350.2	348.4	345.7
75.0	355.3	354.7	353.9	353.0	351.9	350.4	348.5	345.7	341.3
80.0	355.0	354.2	353.3	352.2	350.7	348.7	345.9	341.4	333.3
85.0	354.6	353.7	352.5	351.0	349.0	346.2	341.6	333.4	314.9