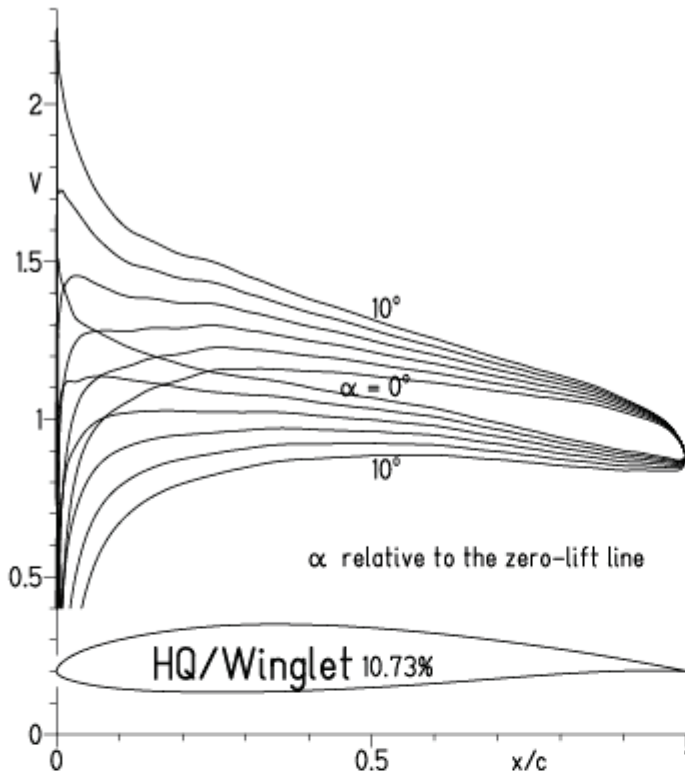
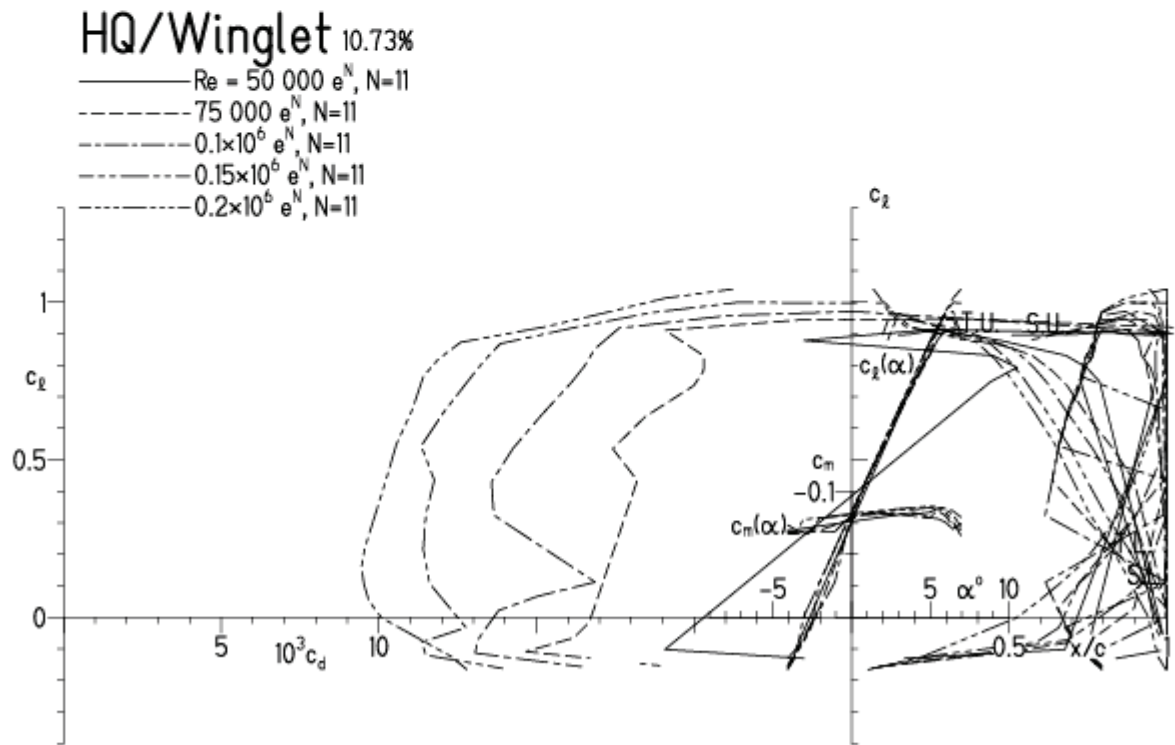


HQ/Winglet, N=11

EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:45

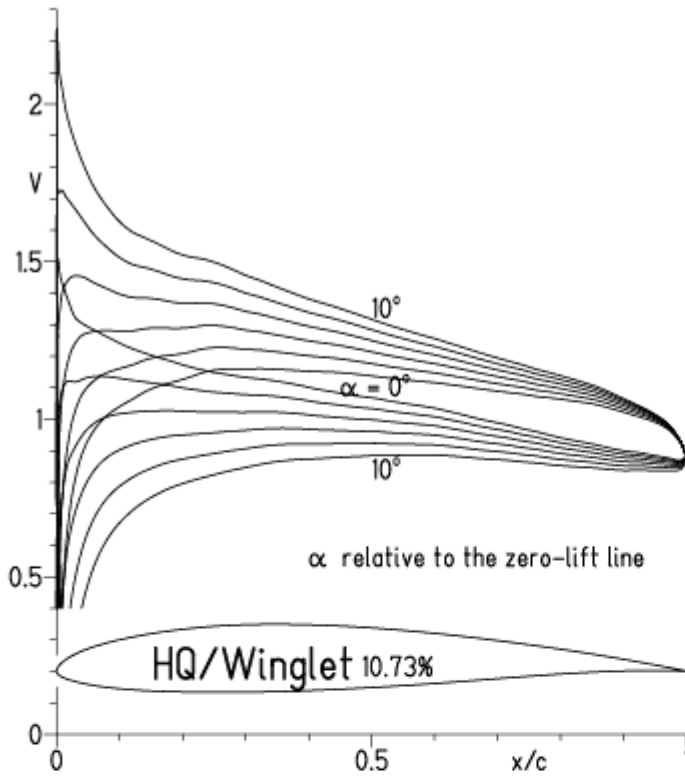


EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:4



HQ/Winglet, N=9

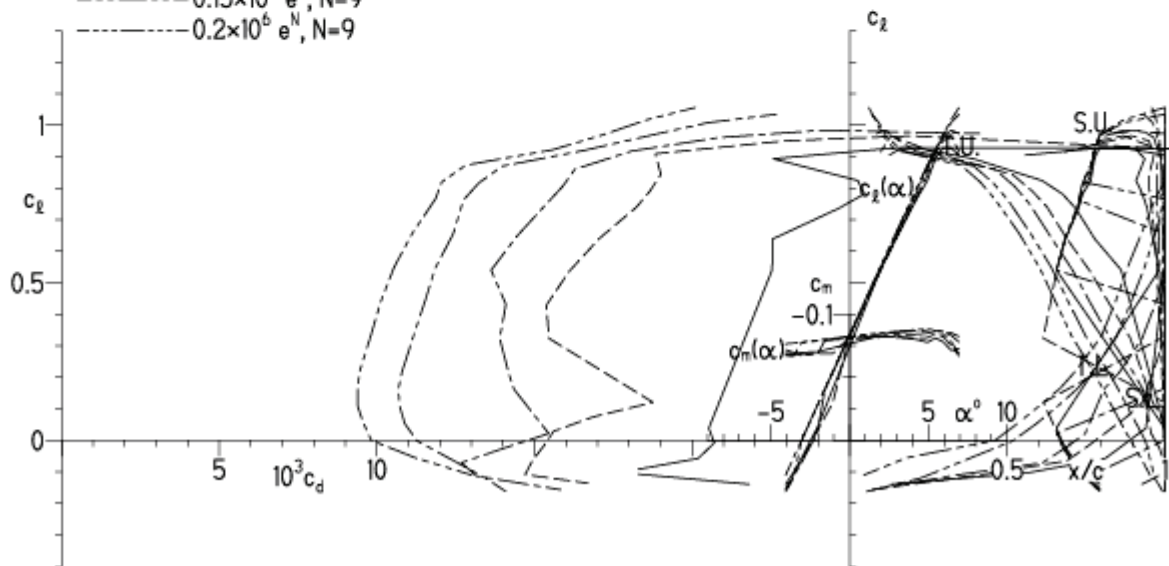
EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:42



EPPLER 2005 V. 8.5.07 RUN 24.

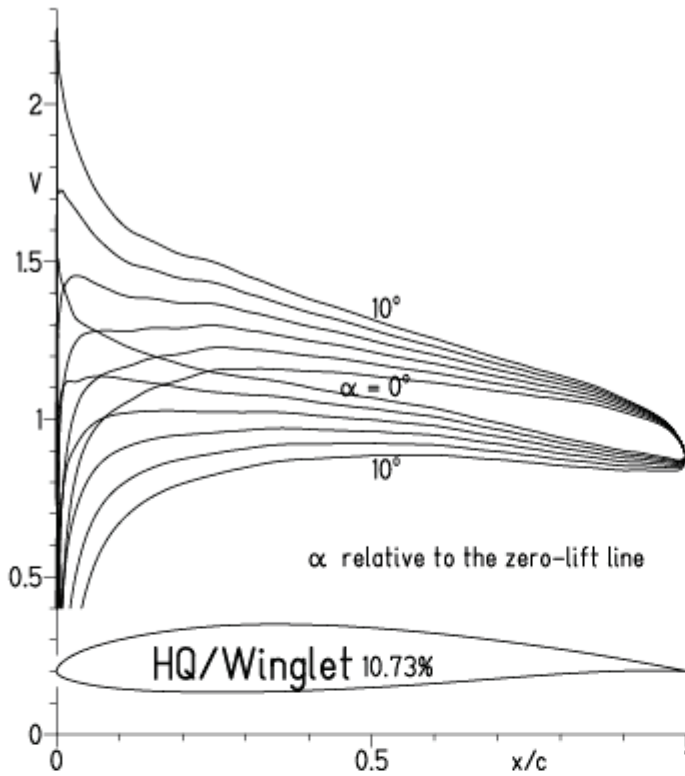
HQ/Winglet 10.73%

- $Re = 50\,000 e^N, N=9$
- - - $75\,000 e^N, N=9$
- · - $0.1 \times 10^6 e^N, N=9$
- · - · $0.15 \times 10^6 e^N, N=9$
- · - · - $0.2 \times 10^6 e^N, N=9$



HQ/Winglet, N=7

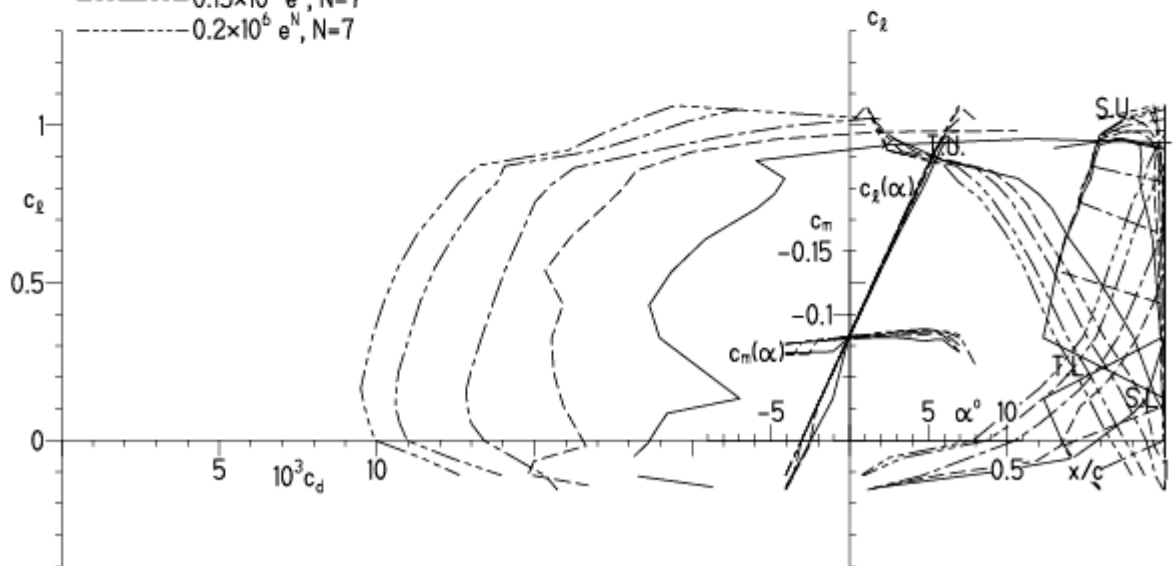
EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:47



EPPLER 2005 V. 8.5.07 RUN 24.2.10 12

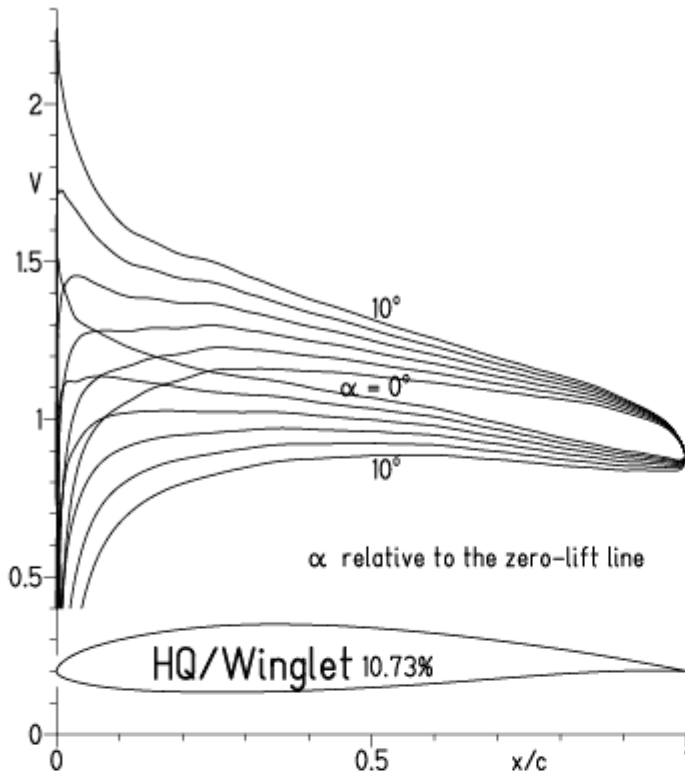
HQ/Winglet 10.73%

- $Re = 50\,000 e^N, N=7$
- - - $75\,000 e^N, N=7$
- · - $0.1 \times 10^6 e^N, N=7$
- · - · $0.15 \times 10^6 e^N, N=7$
- · - · - $0.2 \times 10^6 e^N, N=7$



HQ/Winglet, N=11, Turbulator nur auf der Oberseite

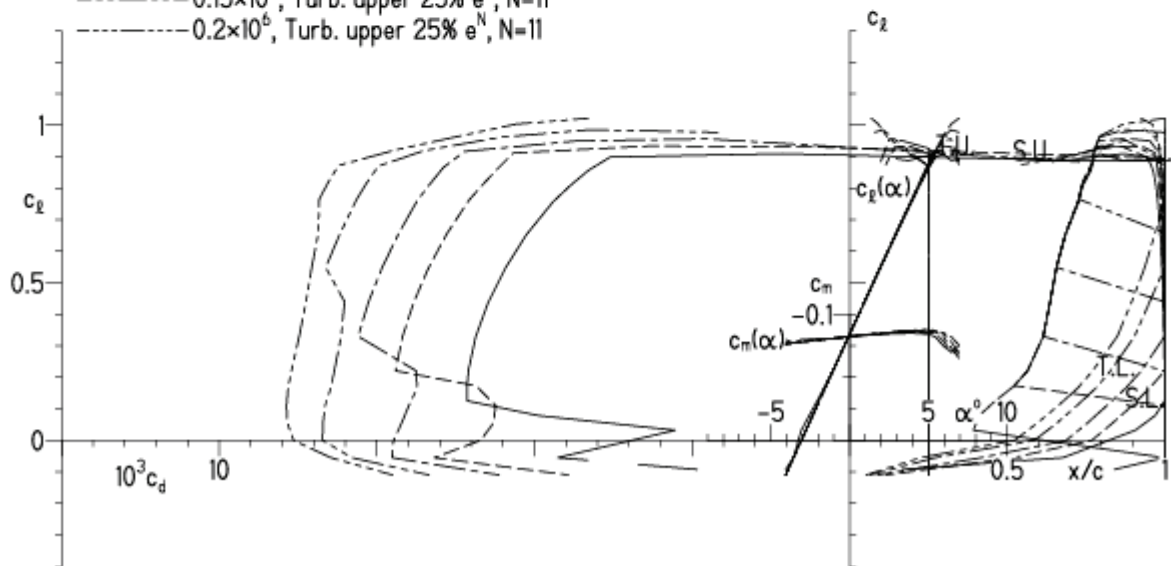
EPPLER 2005 V. 8.5.07 RUN 24.2.10 13:04



EPPLER 2005 V. 8.5.07 RUN 24.2.10 13:04

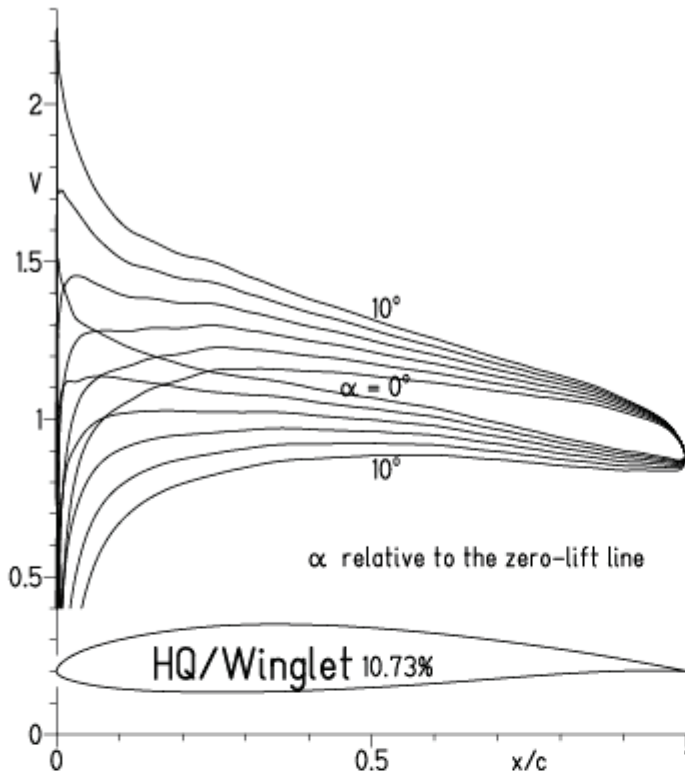
HQ/Winglet 10.73%

- $Re = 50\,000$, Turb. upper 25% e^N , $N=11$
- - - $75\,000$, Turb. upper 25% e^N , $N=11$
- · - 0.1×10^6 , Turb. upper 25% e^N , $N=11$
- · · - 0.15×10^6 , Turb. upper 25% e^N , $N=11$
- · · · 0.2×10^6 , Turb. upper 25% e^N , $N=11$



HQ/Winglet, N=9, Turbulator nur auf der Oberseite

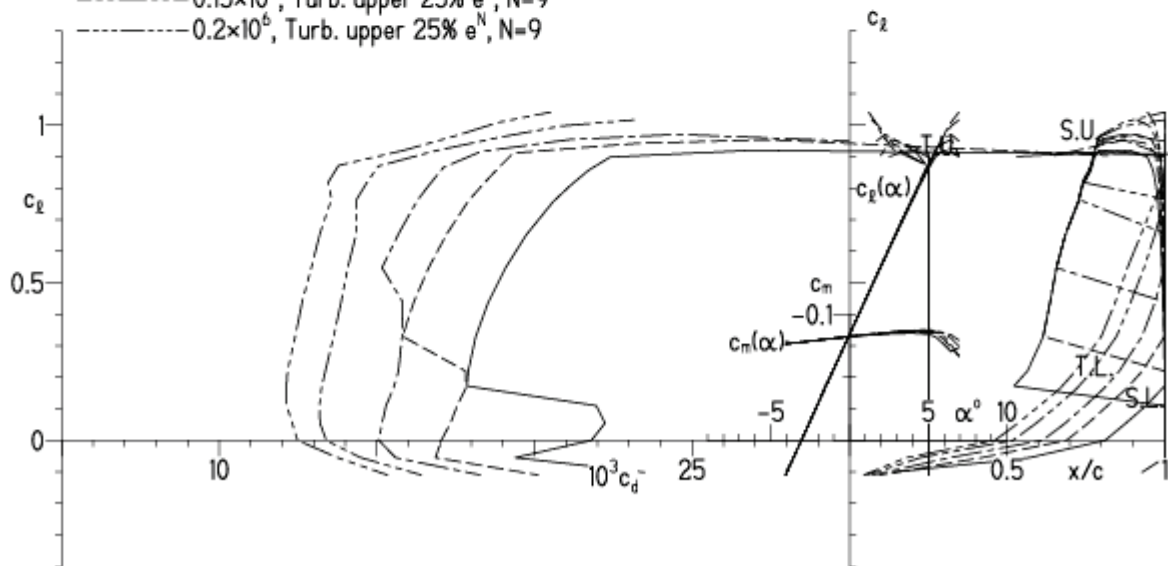
EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:53



EPPLER 2005 V.

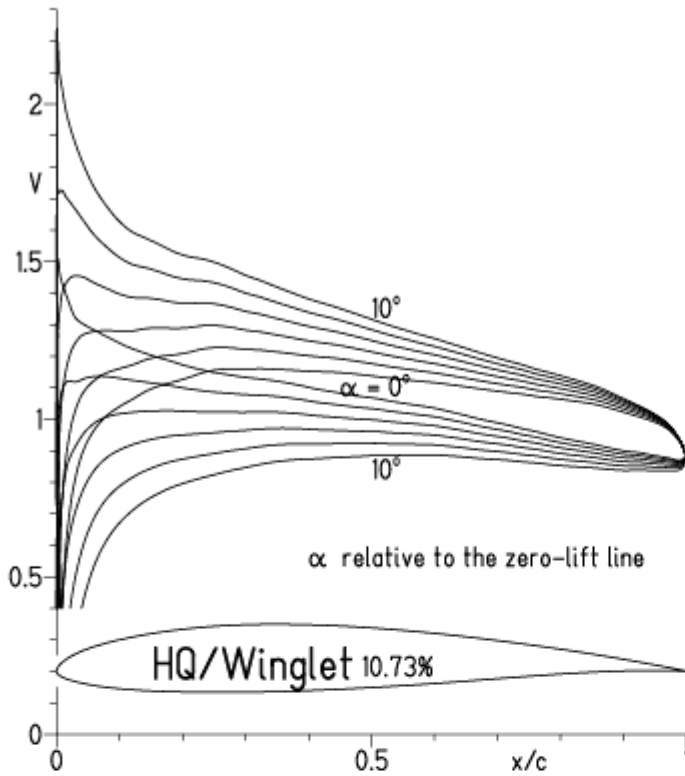
HQ/Winglet 10.73%

- $Re = 50\,000$, Turb. upper 25% e^N , $N=9$
- - - $75\,000$, Turb. upper 25% e^N , $N=9$
- · - 0.1×10^6 , Turb. upper 25% e^N , $N=9$
- · · - 0.15×10^6 , Turb. upper 25% e^N , $N=9$
- · · · 0.2×10^6 , Turb. upper 25% e^N , $N=9$



HQ/Winglet, N=11, Tabulatoren auf der Ober- und Unterseite

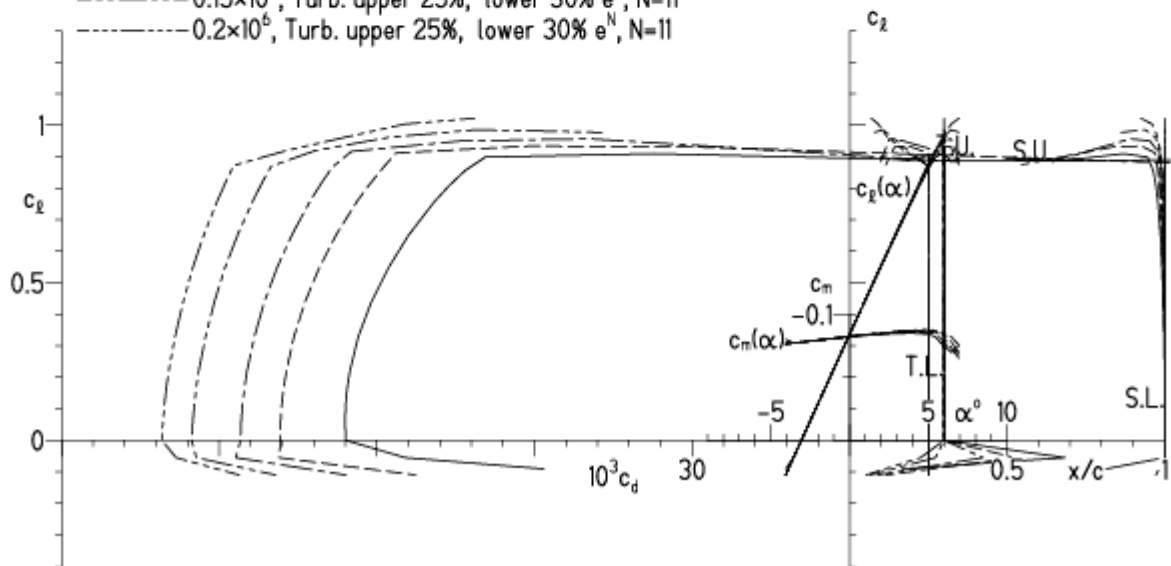
EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:58



EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:58

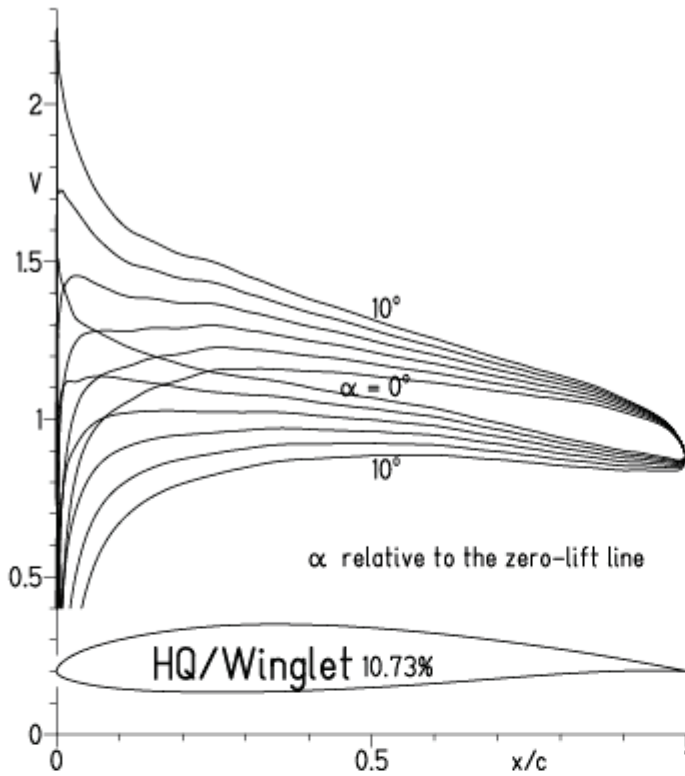
HQ/Winglet 10.73%

- $Re = 50\,000$, Turb. upper 25%, lower 30% e^N , $N=11$
- - - $75\,000$, Turb. upper 25%, lower 30% e^N , $N=11$
- · - 0.1×10^6 , Turb. upper 25%, lower 30% e^N , $N=11$
- · - · 0.15×10^6 , Turb. upper 25%, lower 30% e^N , $N=11$
- · - · - 0.2×10^6 , Turb. upper 25%, lower 30% e^N , $N=11$



HQ/Winglet, N=9, Tabulatoren auf der Ober- und Unterseite

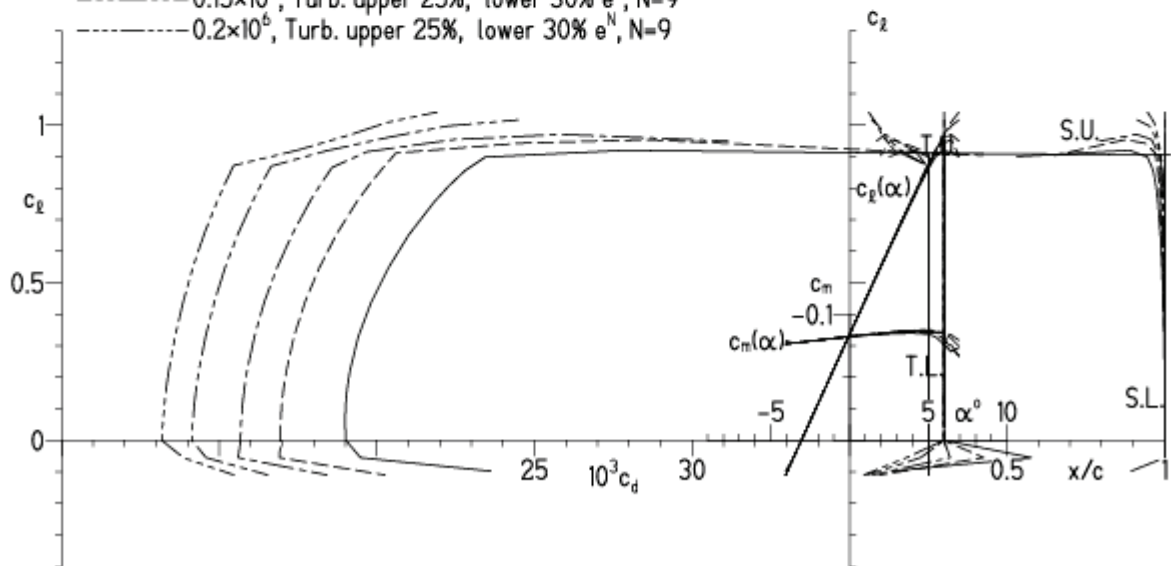
EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:57



EPPLER 200

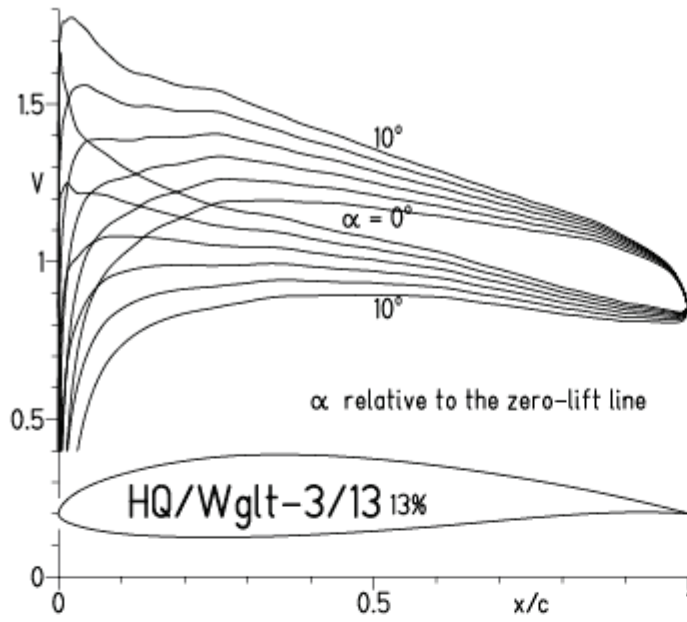
HQ/Winglet 10.73%

- $Re = 50\,000$, Turb. upper 25%, lower 30% e^N , $N=9$
- - - $75\,000$, Turb. upper 25%, lower 30% e^N , $N=9$
- · - 0.1×10^6 , Turb. upper 25%, lower 30% e^N , $N=9$
- · · - 0.15×10^6 , Turb. upper 25%, lower 30% e^N , $N=9$
- · · · - 0.2×10^6 , Turb. upper 25%, lower 30% e^N , $N=9$



HQ/Winglet-3/13, N=11

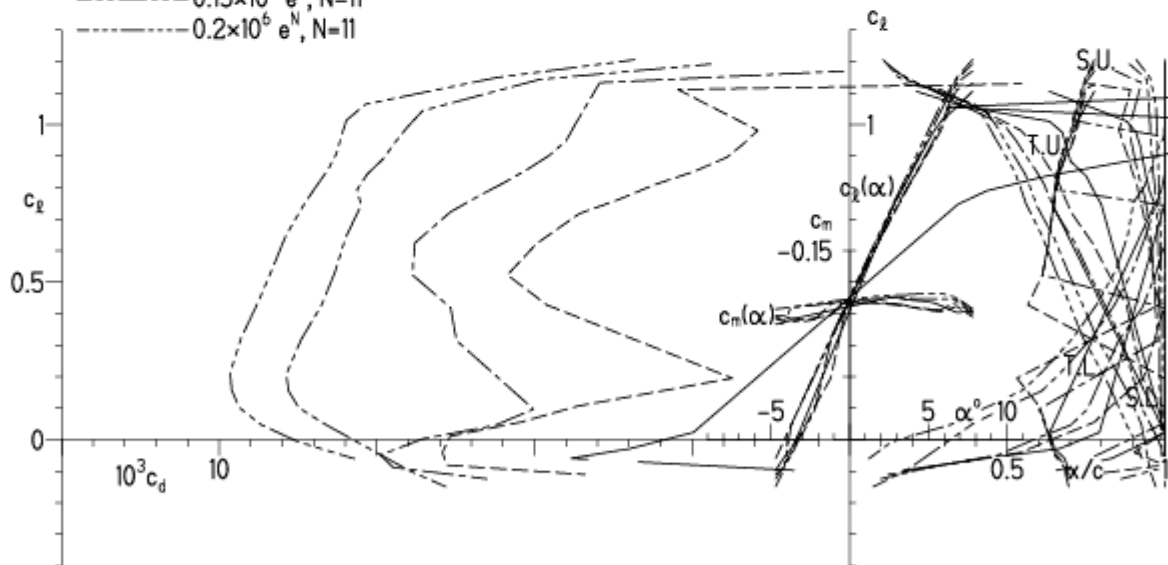
EPPLER 2005 V. 8.5.07 RUN 24.2.10 11:18



EPPLER 2005 V. 8.5.07 RUN 24.2

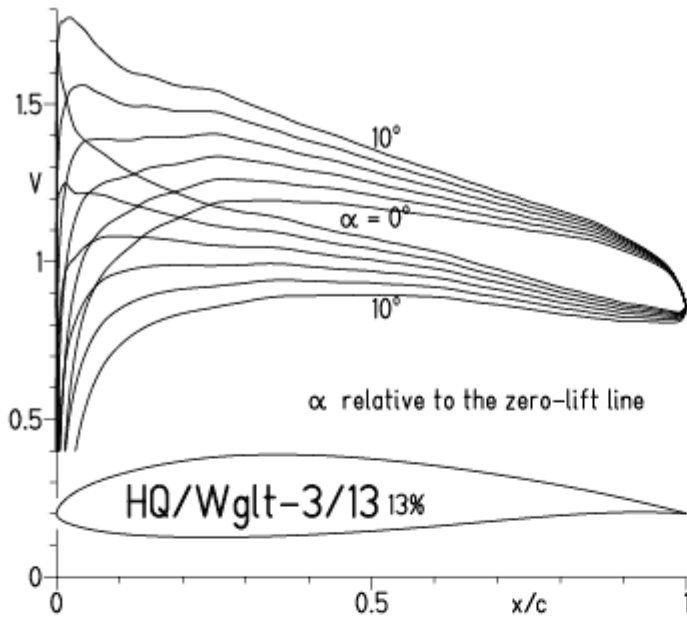
HQ/Winglet-3/13 13%

- $Re = 50\,000 e^N, N=11$
- - - $75\,000 e^N, N=11$
- · - $0.1 \times 10^6 e^N, N=11$
- · - · $0.15 \times 10^6 e^N, N=11$
- · - · - $0.2 \times 10^6 e^N, N=11$



HQ/Winglet-3/13, N=9

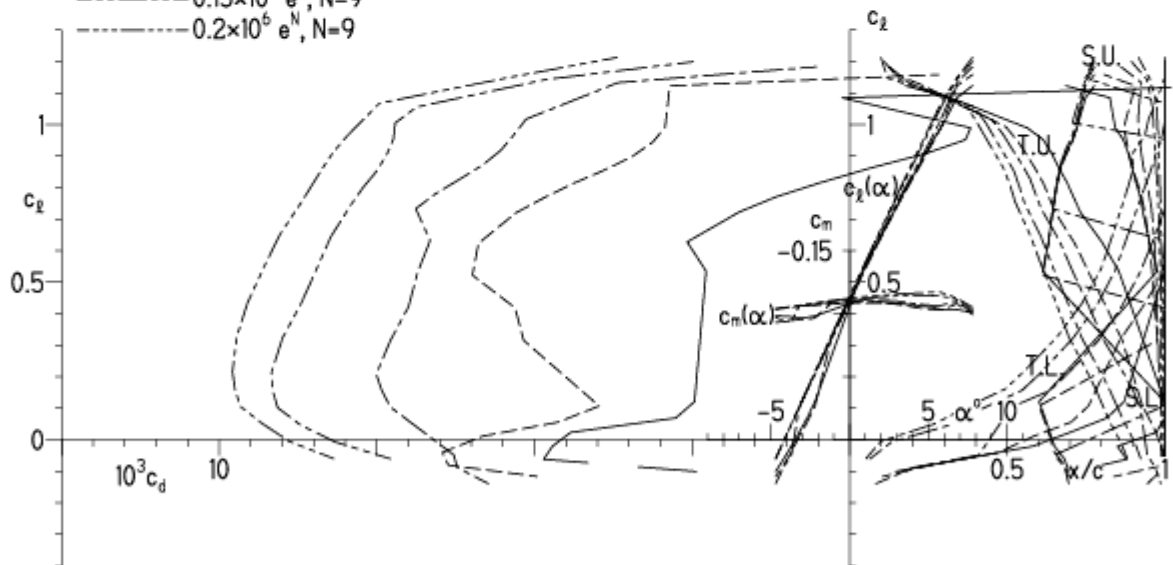
EPPLER 2005 V. 8.5.07 RUN 24.2.10 11:21



EPPLER 2005 V. 8.5.07

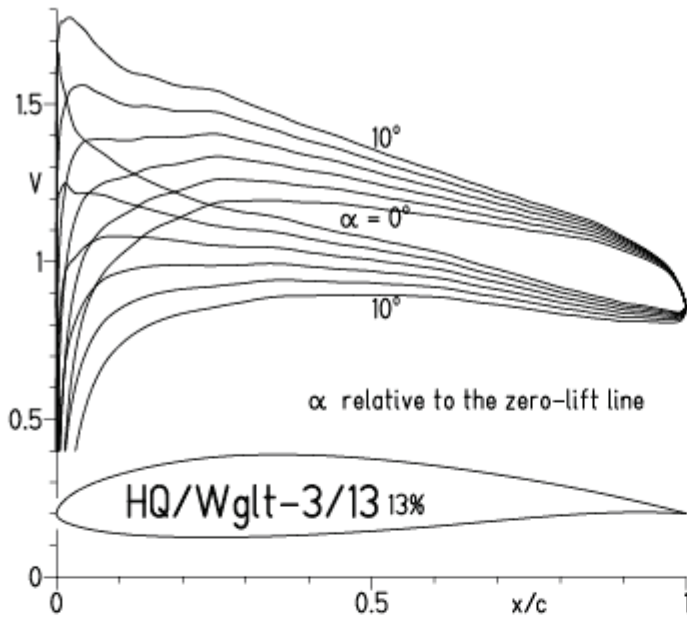
HQ/Wglt-3/13 13%

- $Re = 50\,000 e^N, N=9$
- - - $75\,000 e^N, N=9$
- · - $0.1 \times 10^6 e^N, N=9$
- · · - $0.15 \times 10^6 e^N, N=9$
- · · · - $0.2 \times 10^6 e^N, N=9$



HQ/Winglet-3/13, N=7

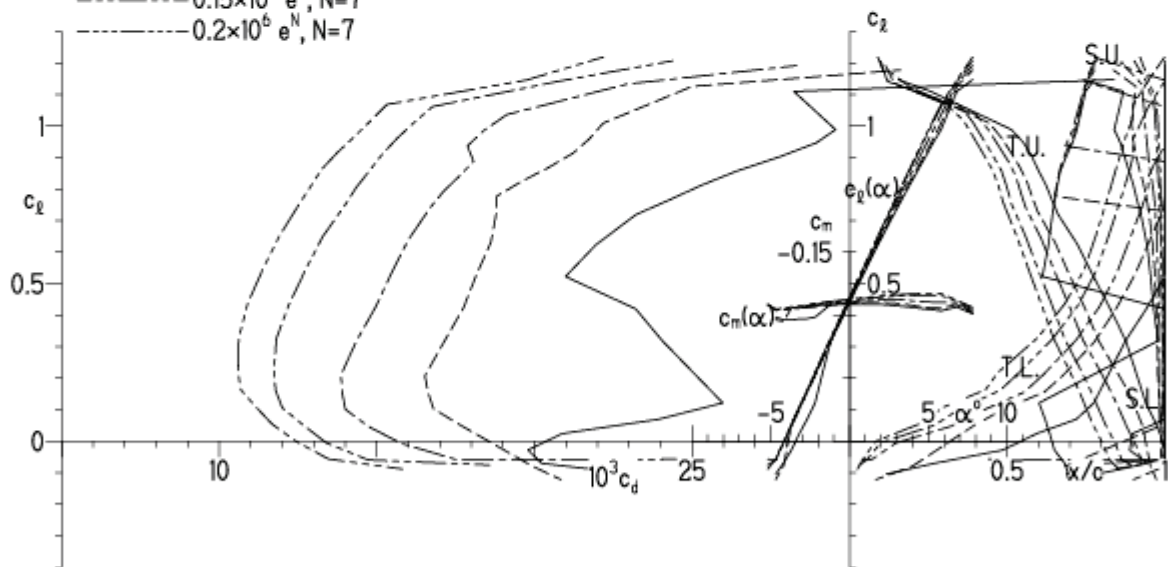
EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:23



EPPLER 2005 V. 8.5.0

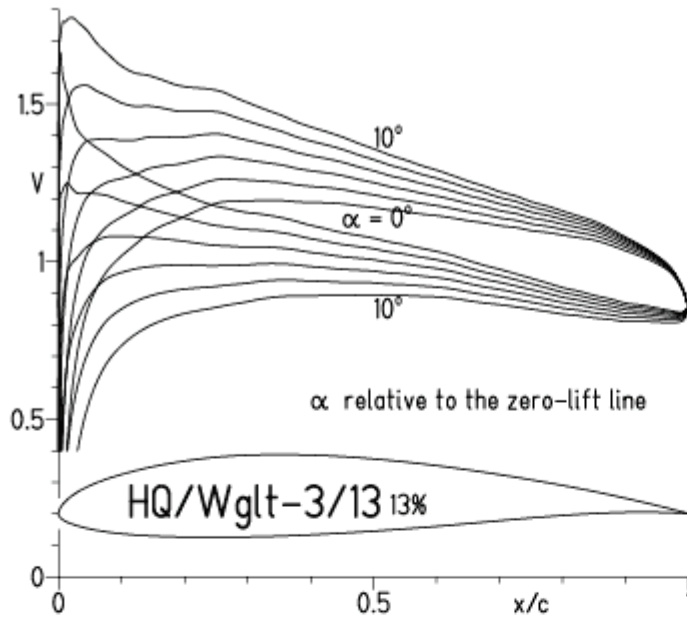
HQ/Wglt-3/13 13%

- $Re = 50\,000 e^N, N=7$
- - - $75\,000 e^N, N=7$
- · - $0.1 \times 10^6 e^N, N=7$
- · - · $0.15 \times 10^6 e^N, N=7$
- · - · - $0.2 \times 10^6 e^N, N=7$



HQ/Winglet-3/13, N=11, Turbulator nur auf der Oberseite

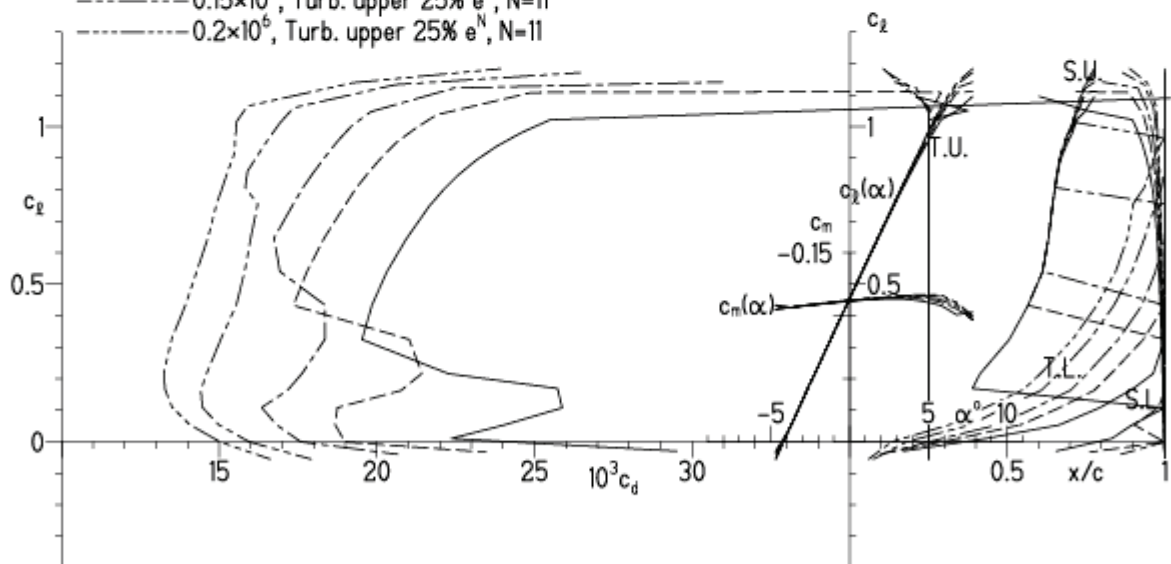
EPPLER 2005 V. 8.5.07 RUN 24.2.10 13:13



EPPLER 2005 V. 8.5.07 RUN 24.2.10 1

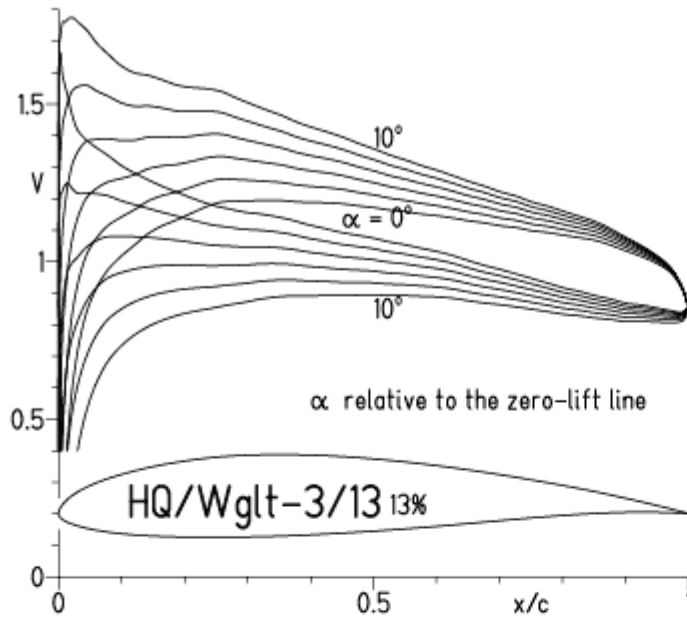
HQ/Wglt-3/13 13%

- $Re = 50\,000$, Turb. upper 25% e^N , $N=11$
- - - $75\,000$, Turb. upper 25% e^N , $N=11$
- · · 0.1×10^6 , Turb. upper 25% e^N , $N=11$
- · - 0.15×10^6 , Turb. upper 25% e^N , $N=11$
- - - 0.2×10^6 , Turb. upper 25% e^N , $N=11$



HQ/Winglet-3/13, N=9, Turbulator nur auf der Oberseite

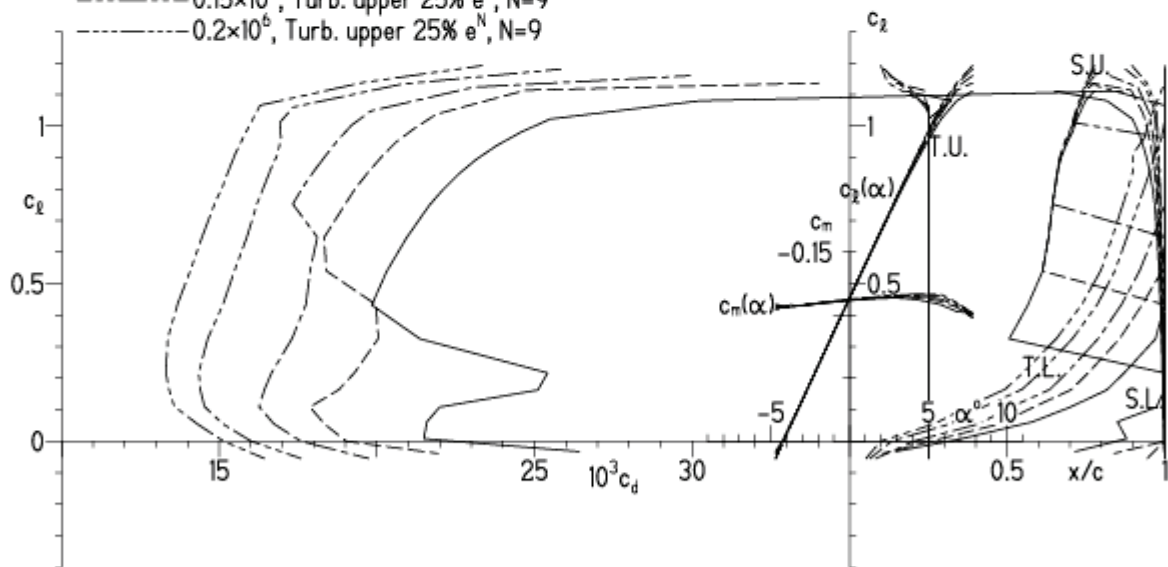
EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:11



EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:11

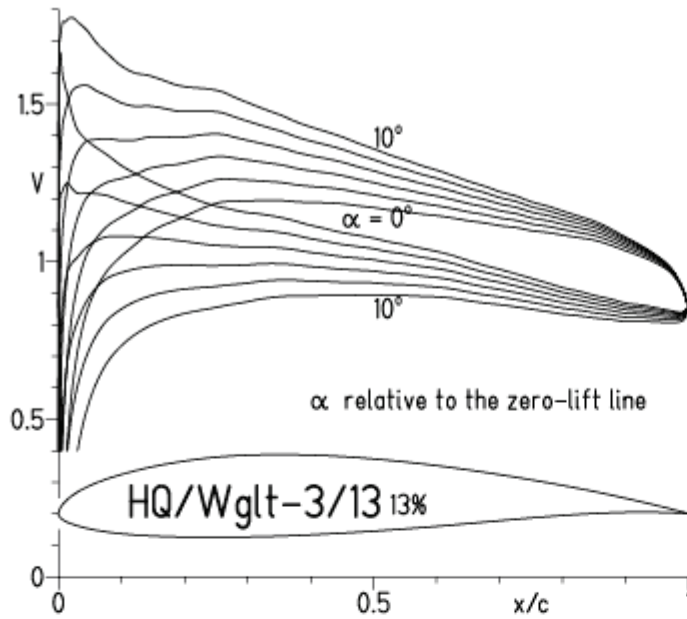
HQ/Wglt-3/13 13%

- $Re = 50\,000$, Turb. upper 25% e^N , $N=9$
- - - $75\,000$, Turb. upper 25% e^N , $N=9$
- · - 0.1×10^6 , Turb. upper 25% e^N , $N=9$
- · - · 0.15×10^6 , Turb. upper 25% e^N , $N=9$
- · - · - 0.2×10^6 , Turb. upper 25% e^N , $N=9$



HQ/Winglet-3/13, N=11, Turbulatoren auf der Ober- und Unterseite

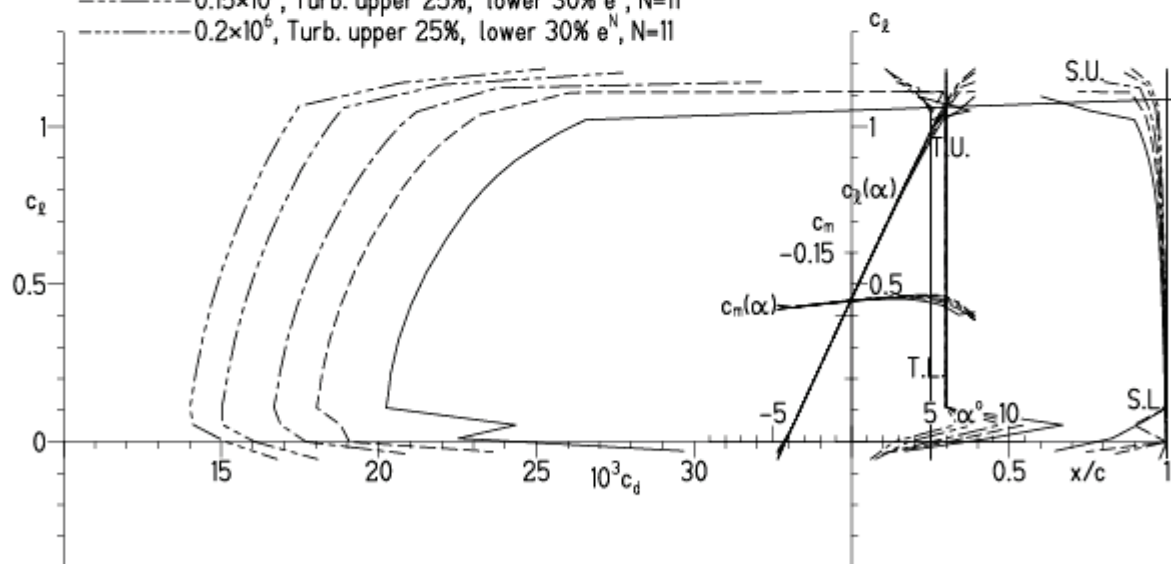
EPPLER 2005 V. 8.5.07 RUN 24.2.10 13:08



EPPLER 2005 V. 8.5.07 RUN 2

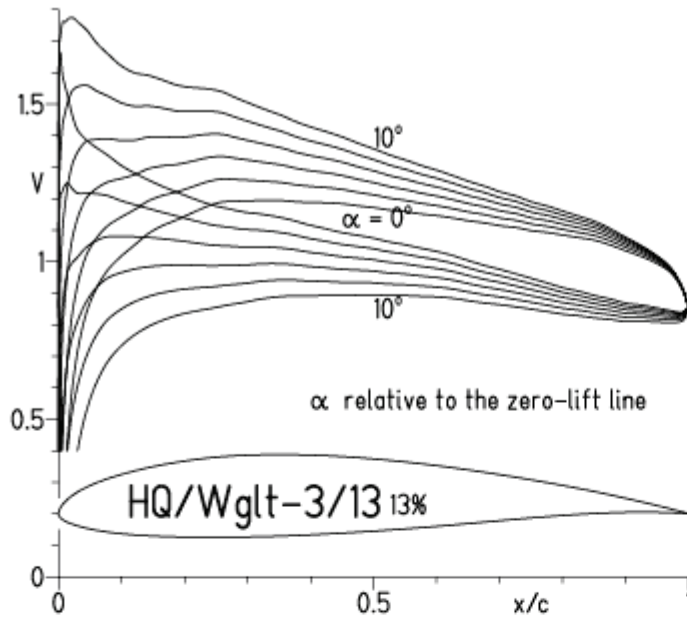
HQ/Wglt-3/13 13%

- $Re = 50\,000$, Turb. upper 25%, lower 30% e^N , $N=11$
- - - $75\,000$, Turb. upper 25%, lower 30% e^N , $N=11$
- · - 0.1×10^6 , Turb. upper 25%, lower 30% e^N , $N=11$
- · - · 0.15×10^6 , Turb. upper 25%, lower 30% e^N , $N=11$
- · - · - 0.2×10^6 , Turb. upper 25%, lower 30% e^N , $N=11$



HQ/Winglet-3/13, N=9, Turbulatoren auf der Ober- und Unterseite

EPPLER 2005 V. 8.5.07 RUN 24.2.10 12:18



EPPLER 2005 V. 8.5.07 R

HQ/Wglt-3/13 13%

- $Re = 50\,000$, Turb. upper 25%, lower 30% e^N , $N=9$
- - - $75\,000$, Turb. upper 25%, lower 30% e^N , $N=9$
- · - 0.1×10^6 , Turb. upper 25%, lower 30% e^N , $N=9$
- · - · 0.15×10^6 , Turb. upper 25%, lower 30% e^N , $N=9$
- · - · - 0.2×10^6 , Turb. upper 25%, lower 30% e^N , $N=9$

