Calculation report

Airport details

Name: Henrys Test Land
Runway: 27L/09R
Blast protection: 300.0m
Strip end: 60.0m

Obstacle details

Name: Boeing777
Width: 100.0m
Height: 25.0m
(Distance) right threshold: 2853.0m
(Distance) left threshold: 500.0m
(Distance) center 20.0m

Re-declaration breakdown

09R (Taking Off Towards, Landing Towards)

TORA
= Distance From Threshold + Runway Threshold - (Slope Calculation) - Strip End
= 2853.0 + 0.0 - (25.0 * 50.0) - 60.0
= 1543.0

ASDA
= (R) TORA
= 1543.0

TODA
= (R) TODA
= 1543.0

LDA
= Distance from Threshold - RESA - Strip End
= 2853.0 - 240.0 - 60.0
= 2553.0

27L (Taking Off Away, Landing Over)

TORA
= Original TORA - Blast Protection - Distance From Threshold - Displaced Threshold
= 4000.0 - 300.0 - 500.0 - 0.0
= 3200.0

ASDA
= (R) TORA + STOPWAY
= 3200.0 + 50.0

TODA
= (R) TORA + Clearway
= 3200.0 + 100.0

LDA
= Original LDA - Distance From Threshold - Slope Calculation - Strip End
= 4000.0 - 500.0 - (25.0 * 50.0) - 60.0
= 2190.0

Runway designator	TORA	TODA	ASDA	LDA
Original Values				
27L	4000.0m	4100.0m	4000.0m	4000.0m
09R	4000.0m	4100.0m	4000.0m	4000.0m
Recalculated Values				
27L	3200.0m	3300.0m	3250.0m	2190.0m
09R	1543.0m	1543.0m	1543.0m	2553.0m

Visualisation of re-declared distances