Calculate effective wedge factors of any wedge angles of Enhanced Dynamic Wedge from a measured 60 degree wedge factor

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An equation is derived to calculate wedge factors of any wedge angles for Varian enhanced dynamic wedge (EDW) from a measured 60-degree wedge factor. This method is based on the concept of "ratio of tangents method" which is used to generate "Segmented Treatment Tables" for wedge fields from a single Golden STT. The effective wedge factor for both 6 and 18 MV with wedge factors for 15°, 30°, 45° and 60° degree are measured and compared to calculated values. Agreement are better than 0.2% for 18 MV and 0.5% for 6 MV.