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The excel file contains experimental data for the paper. In particular:

Figure 3: The effect of normalised difference,  $k$  in the compressive and tensile moduli on fractional change in the NA,  $n$ , relative to the central axis of fabric.

Figure 5: Relationship between the fabric nonlinearity,  $\eta$  and the normalised NA distance,  $\delta_n$  from the central axis of the fabrics. The top and bottom sides denote negative and positive bending of the fabrics respectively.

Figure 10: In-bending responses of strain gauges printed in FLC structures of the Bari, Polyester, Lagonda and Escalade e-textile composites due to positive and negative bending radius of 5mm. Optimum thickness,  $h_T$  is achieved at the NA when  $\Delta R \approx 0$ .

Date of data collection: from April 2014 – December 2015

Information about geographic location of data collection and analysis: University of

Southampton, UK

Date that the file was created: December 2017