

Constraints of the initial state of PbPb collisions via measurements of  $Z$  boson yields  
and azimuthal anisotropy at  $\sqrt{s_{\text{NN}}} = 5.02$  TeV

—Supplemental Material—

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TABLE I. The average  $T_{AA}$  values for  $\sqrt{s_{NN}} = 5.02$  TeV PbPb collisions. The uncertainties result from the model parameters and the HF detector energy resolution.

Centrality	$\langle T_{AA} \rangle$ ( $\text{mb}^{-1}$ )
0–5%	$25.70 \pm 0.47$
5–10%	$20.40 \pm 0.40$
10–20%	$14.39 \pm 0.30$
20–30%	$8.80 \pm 0.22$
30–40%	$5.12 \pm 0.16$
40–50%	$2.78 \pm 0.11$
50–70%	$0.996 \pm 0.050$
70–90%	$0.1650 \pm 0.0077$
0–90%	$6.27 \pm 0.14$