

5`cbgc'[]Vh'b]WXh'Ui Z.'@Yj Yf_i gYb _Aa dZh'i a 'X]Y'A Y]ghYfgWXUZh°

LUV]'5`cbgc'V`Y]Vh'cdh]a]gh]gW\'bUW\'XYa '\$.\$'[Y[Yb6UmYfb"'@YjYf_igYb''U[h'XYb'H]hY`ž'hfchn'Y]bYg'FØW_ghUbXgjcb'UW\h'Dib_hYb"

@Yj Yf_i gYbž'8 Yi hgWX`UbX`!'8 Yf'HfU]bYf'j cb'6UmYf
@Yj Yf_i gYbž'L UV]'5`cbgcž'\Uh'bUWX`XYa 'hcf`cgYb'l bYbhgWX]YXYb
[Y[Yb'6UmYfb'A ØbWXYb'VYhcbhž'XUgg'X]Y'H]hY`j YfhY]X][i b[']b'XYf
:i » VU``!6i bXYg`][U'hfchn'Y]bYg'F ØW_ghUbXg'j cb'UWXh'Di b_hYb'Ui Z
XYb'FY_cfXa Y]ghYf'bcWX'b]WXh'Ui Z[Y[YVYb'k YfXYb'_Ubb"'5`cbgc
Ài » YfhYž'XUgg'Yg'bcWX'j]Y`Y'Gd]Y`Y'ni 'gd]Y`Yb'[]Vh'i bX'X]Y
A Y]ghYfgWX UZh'_Y]bYgZU``g'YbhgWX]YXYb'gY]"'9f'fÀi a hY'Y]bž'XUgg
XUg'9f[YVb]g']b'XYf'HUVY``Y'VYggYf'gY]b'_ObbhY'i bX'XUgg
nU\`fY]WXY'G]Y[Y'bchk YbX]['g]bXž'i a 'XYb'F ØW_ghUbX'Ui Zni \c`Yb"

<]ghcf]gWX [YgY\Yb \\Uh'bcWX 'b]Y 'Y]bY 'A UbbgWX UZh'ni 'X]YgYa
NY]hdi b_h'XYf'GU]gcb 'Y]bYb 'J cfgdfi b['j cb 'UWX h'Di b_hYb
j Yfgd]Y `h'' *&bUh\ Ub 'HU\ ž'XYf'5Vk Y\ fgd]Y `Yf'j cb '6UmYf
@Yj Yf_i gYbž'hY]`h'X]Y '5i ZZUggi b['j cb '5`cbgc'i bX'g]Y\ h'X]Y
A Y]ghYfgWX UZh'YVYbZU``g'U`g'b]WX h'YbhgWX]YXYb'Ub'''9f'VYXUi Yfhž
XUgg'XUg'Gd]Y`'[Y[Yb'6UmYfb'b]WX h'[Yk cbbYb'k i fXYž'VYhcbh
YXcWXž'XUgg'Ui WX 'k Y]hYf\]b'j]Y'Y'Di b_hY'[YgUa a Y`h'k YfXYb_
_ObbYb"</pre>

A Y] ghY f g W \ U Zh b c W b] W \ h Y b h g W \] Y X Y b

5`cbgc'i bX'HU\'ghY\Yb'j cf'XYf'< YfUi gZcfXYfi b[ž'X]Y'A ch]j Uh]cb i bX'X]Y'G]Y[YggYf]Y'XYg'HYUa g'Ui ZfYW\hni Yf\U`hYb"'=b'Y]bYa 6Yf]W\h'j cb': cfVYg'k]fX'X]g_i h]Yfhž'cV'5`cbgc'Xi fW\'XUg I bYbhgW\]YXYb'[Y[Yb'6UmYfb'A ØbW\Yb'XYf'H]hY`'j cb'6UmYf

@Yj Yf_i gYb`Ub`6UmYfb`A ØbWXYb`]b`X]Y`< ÀbXY`[Y[YVYb`\Uh"`Hfchn XYg`Yf`]hhYbYb`FØW_gWX`U[g`nY][h`5`cbgc`g]WX`_Àa dZYf]gWX`i bX j Yf`Ub[h'j cb`gY]bYf`A UbbgWXUZhž`XYb`: c_i g`Ui Z`X]Y`_ca a YbXYb 6Y[Y[bi b[Yb`ni `f]WXhYb"

$$\label{eq:conditional_stress} \begin{split} &5\texttt{`cbgc'gY`Vgh'`Vhrg}W.`]\texttt{b'gY}\texttt{bYf'V}\texttt{g}\texttt{Vf}^{\text{`[Yb'HfU]bYf}_Uff]YfY'XifW}.\\ &[Yn]Y\texttt{`hY'HfUbgZYfg'ibX'hU}_h]\texttt{g}W.Y': \texttt{`YI}_]V]\texttt{`]h}\texttt{h'Uig}^{\text{[YnY]}W.bYh'':8Yf}.\\ &9\texttt{fZc`['@YjYf}_igYbg']\texttt{b'XYf'`YhnhYb'GU]gcbž']}\texttt{b'XYf'XUg'HYUa'XYb}.\\ &gYW.ghYb'D\texttt{`Uhn'VY`Y}^{\text{[hY'ibX'g]}W.'ZØf'X]Y'9ifcdU'@YU[iYeiU']Z]n]YfhYž']ghY]\texttt{b'NY}W.Yb'ZØf'5\texttt{`cbgcg'dcg]h]jY}.\\ &9\texttt{bhk}^{\text{[W_ib]}}\texttt{b}^{\text{[gaYh\cXYb''FiX]'J}}\texttt{o}^{\text{`Yfz'XYf'Y\Ya}}*U^{\text{[Yigdcfh']}W.Y}.\\ &@Y]\texttt{hYf'XYg'JYfY]}\texttt{bgž'`cVh'X]Y'9}\texttt{bhgW.Y]Xib}^{\text{[z5`cbgc'U`g'HfU]}}\texttt{bYf'nijYfdZ']W.hYb''}. \end{split}$$

8 Y hU]`g	
Cfh	@YjYf_igYbž'8YihgWX`UbX
EiY``Yb	• k k k "bcn"XY
	• k k k "ZcfVYg"Wca

6Ygi WXYb G]Y i bg Ui Z b!U["XY