

$J cb XYf 5fVY]hg cg][_Y]h ni a 'HfUi a cV. A Uf]c A Ub]gWU Wcg bYi Y : U\fh$

A Uf]c A Ub]gWU`Wc Z]bXYh`Xi fW\ X]Y 5 [Ybhi f ZØf 5 fVY]h`5 U`Yb gY]bYb HfUi a \c V U`g 6i gZU\fYf VY] XYf C J 5 i bX VY [Y]ghYfh a]h`gY]bYf @Y]XYbgW\ UZh"

 $8]Y `I bhYfghØhni b[`XYf `5[Ybhi f `ZØf `5fVY]h `5U `Yb `ghY ``hY `g]WX `U `g YbhgWX Y]XYb X `\ YfUi gž i a `A Ub]gWU `Wc `]b `gY]bYb `HfUi a `c V `ni VYZÒfXYfb " `9f `\ UhhY `X]Y `A Ò[`]WX _Y]hž `Y]bYb `6i gZØ\ fYfgWX Y]b `ni Yfk YfVYb ž `k Ug `]\a `XYb `9]bgh]Y[`]b `Y]bY `ghUV]`Y `5bghY ``i b[`VY] XYf `C J 5 `Yfa Ò[`]WX hY " `9g `]gh `ZØf `a]WX `_Y]bY `5fVY]h" `\delta W ``]YVY `Ygž `YXYb ``HU[`Ui Z'j]Y `Y'j YfgWX]YXYbY `A YbgWX Yb `ni `hfYZZYb ž `Ai \(\) YfhY Yf a]h `[fc \(\) Yf `6Y[Y]ghYfi b[" `8]Y `5[Ybhi f `ghY ``hY `b]WX h `bi f `X]Y b Oh][Yb `F Yggci f W b `ni f `J YfZØ[i b[ž `gcb XYfb `VY[`Y]hYhY `]\ b `Ui WX k \(\) A\fYbX `XYg `[YgUa hYb `DfcnYggYgž `V]g `Yf `YbX`]WX `\]bhYf `XYa GhYi Yf `Y]bYq `6i qgYq `q]hnYb `_cbbhY"$

GWX`ØggY``ni a '9fZc`[

8]Y`Ni gUa a YbUfVY]h`nk]gWXYb`XYf`5[Ybhi f`ZØf`5fVY]h`i bX`XYf CJ5']gh`i b_ca d`]n]Yfh`i bX`Ya dUh\]gWX ž`gU[h'<c`[Yf'; Y\kY]`Yfž DYfgcbU`WXYZXYf`CJ5''`9f`VYhcbh`X]Y`dcg]h]j Y`9]bghY``i b['j cb A Ub]gWU`WcžX]Y`ni f`5ha cgd\ÀfY`]a `I bhYfbY\a Yb`VY]hfÀ[h''; Y\kY]`Yf`Yf_`Àfh`kY]hYf. *\XXYfž`XYf`ZØf`XYb`\&V`[YY][bYh`]gh`i bUV\Àb[]['j cb'5`hYf`cXYf'j cf\Yf][Ya '6Yfi Z' 'Yf\À`h`VY]`i bg Y]bY`fYY``Y`7\UbWY'' '8]YgY`<U`hi b[']gh`VYgcbXYfg`k]WXh][ž`XU`X]YfY[]cbU`Yb`6i gi bhYfbY\a Ybž`ni 'XYbYb`Ui WX`X]Y`CJ5`[Y\Òfhž\ÀbXYf]b[YbX`bUWX: U\fdYfgcbU``gi WXYb''`I Xc`Ghc\fYfž; YgWX\ÀZhgZØ\fYf`CdYfUh]j 'XYf`5[Ybhi f`ZØf`5fVY]h`5U`Ybž`Yfa i h][h]bhYfYgg]YfhY`6YkYfVYfž`g]WX`ni 'a Y`XYb`i bX`VYfUhYb`ni '`UggYb''

$HU[\ XYg^6i\ ggYg.^9]bV^]W_Y^]b^X]Y^6fUbWXY$

8]Y'5[Ybhi f'ZØf'5fVY]h'5U'Yb'j YfUbghU'hYh'fY[Y'a À»]['9j Ybhgži a X]Y'2 ZZYbh']WX_Y]h'ØVYf'X]Y'6i gVfUbWXY'ni ']bZcfa]YfYb'i bX dchYbn]Y''Y'\deltahYfYggYbhYb'Ubni gdfYWXYb"'9]b'VYa Yf_Ybgk YfhYf HYfa]b']gh'XYf' HU['XYg'6i ggYg ž'XYf'Ua '&%"'GYdhYa VYf ghUhhZ]bXYb'k]fX"'<]YfVY]'Yf\U'hYb'6Ygi WXYf'X]Y'; Y'Y[Yb\Y]hž a Y\f'ØVYf'X]Y'A cV]']hÀh'a]h'XYa '6i g'ni 'YfbYb'i bX'gc[Uf'gY'Vgh Y]ba U''Y]bYb'6i g'ni 'ZU\fYb"'Gc'WXY'JYfUbghU'hi b[Yb'g]bX'b]WXh bi f''Y\ffY]WX ž'gcbXYfb'Ui WX'Y]bY'A Ò[']WX_Y]hž'6YfØ\fi b[gÀb[ghY UVni VUi Yb'i bX'XUg'\deltahYfYggY'Ub'Y]bYa '6Yfi Z']b'X]YgYf'6fUbWXY ni 'K YW_Yb"

A Uf]c 'A Ub]gWU`Wc 'ghY\h'ghY``j YfhfYhYbX'ZØf'j]Y`Yž'X]Y'hfchn gWkk]Yf][Yf'I a ghÀbXY'Y]bY'BYi UbZUb[gWkUbWY'Yf\U`hYb'\UVYb"GY]bY'; YgWk]WkhY']gh'Y]b'Ui Zg]Wkhgj c``Yg'6Y]gd]Y`'ZØf'XYb'9fZc`[j cb'[Yn]Y`hYb'JYfa]hh`i b[gdfc[fUa a Yb'i bX'XYfNi gUa a YbUfVY]h'nk]gWkYb'j YfgWk]YXYbYb'#bgh]hi h]cbYb"'8]Y

 $\label{eq:continuous} 5 \ [Ybhi f'ZØf'5fVY]h'5U'Yb'nY] \ [h'Xi fWX'A Ub]gWU'Wcg'9fZc`[ž'XUgg'a]h XYf'f]WXh] \ [Yb'I bhYfghØhni b['i bX'Y]bYf'cZZYbYb'<U`hi b['j]Y`Y A YbgWXYb']\fY'HU`YbhY'i bX'@Y]XYbgWXUZhYb']b'bYi Y'?Uff]YfYk Y[Yi a gYhnYb'_ÒbbYb''$

8 Y hU]`c

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