

< UZZYb!A Y\ f`Àf[Yfh'g]W\ ØVYf'gdÀhYb
< UbXY`Za YhYf`]a `@c_U`XYfVm°

⇒ a`Hcdgd]Y`XYf'fY]g`[U`5'gd]Y`h'K YghZU`U`5b\c`h`b
, VYfnU\`bi f'&.[Y[Yb`F\XY`i bX`j YfgW\Yb_h`X]Y` : Ø\fi b[
]b`XYf`B UW\gd]Y`nY]h"

K YghZU`U`5b\c`h`U`h`]a`Hcdgd]Y`[Y[Yb`8`?`F\XY`Y]bY
&.\$! : Ø\fi b[`j Yfgd]Y`h`i bX`g]W\`Ua` `9bXY`a`]h`Y]bYa
&.&! bYbhgW\]YXYb`VY[bØ[Yb`a` ØggYb" `K YghZU`U`HfU]bYf`8`Uj]X
?fUZh`k Uf`bUW\`XYa` `Gd]Y`Zfi ghf]Yfh`i bX`bUbbhY`Yg` UVgc`i`h
i bbØh][`ž`XUgg`gY]b`HYUa` `bUW\`+`\$`Xca`]b]YfYbXYb`A`]bi hYb`XUg
Gd]Y`bUW\`Y]bYa` `D`Uhmj Yfk`Y]g`Ui`g`XYf`< UbX`[UV" `8]Y`YfghYb
VY]XYb`HcfY`ZØf`5b\c`h`Z]Y`Yb`Xi`fW\`9][YbhcfY`XYf`F\XYf`ž`XcW\
bUW\`Y]bYf`fchYb`? UfhY`ZØf`Y]bYb`8`? !Gd]Y`Yf`YbhgW\]YX`Y]b
: ci`Y`Za` YhYf`ZØf`X]Y` ; ÀghY`X]Y`DUfh]Y" `A`UfW`c`A`cgW\Y]_
j`Yfk`UbXY`hY`ni`a` `%.&ž`VYj`cf`MUbb]_`B]_`UgW\`_i`fn`XUfUi`Z`XYb
5i`g[`Y]W\`Yfn]Y`hY" `B UW\`XYa` `GW\`i`ggdZ]Z`Yf\]Y`h`Ui`W\`Hi` [Um
< UVYfW`j`cb`K`YghZU`U`bcW\`X]Y` ; Y`V`!F`chY`? UfhY`k`Y[Yb
A`YW`Yfbg"

⇒ b`Y]bYa` `UbXYfYb`Gd]Y`_Ua` Yb`Hi`G`< UZZYb!A Y\ f`i`bX`XYf`J`ZF
A Y\ f\cc[`YVYbZU`g`b]W\h`ØVYf`Y]b`&.&`\]bUi`g" `< UZZYb!A Y\ f`[]b[
ZfØ`]b` : Ø\fi b[`ž`XcW\`XYf`5i`g[`Y]W\`Z]Y`Xi`fW\`Y]bYb
i`a`ghf]hhYbYb`< UbXY`Za` YhYf`]b`XYf`B UW\gd]Y`nY]h" `HfU]bYf`8`Ybb]g
@]bXYa` Ubb`VYhcbhY`ž`XUgg`gY]b`HYUa` `X]Y`VYggYfYb`7`U`bW\`b`\`UhhY
i`bX`i`bVYX]b[`h`\`ÀhhY`[Yk`]bbYb`a` ØggYb" `8`Yf`GJ`J`fUggY`h`a`i`gghY
g]W\`]bXYg`a`]h" `.)` [Y[Yb`X]Y`Nk`Y]hj`YfhfYhi`b[`XYf`GdcfhZfYi`bXY
-`+`#`\$`@ck`]W`[YgW\`U[Yb`[YVYb`ž`k`Ug`X]Y`ZØb`ZhY`B]YXYf`U[Y`]b
X]YgYf`GU]gcb`VYXYi`hYh" `B UW\`Y]bYf`Xi`fW\`k`UW\`gYbYb`YfghYb
< À`ZhY`VfUW\`hYb`nk`Y]HcfY`XYf`@ck`]W`Yf`XUg`HYUa` `j`cb`7`cUW\
H\ca`Ug`8`f]Yj`Yf`]bg`<]bhYfhfY`ZZYb`ž`hfc`hn`gd`ÀhYb`HfY`ZZYfb`ZØf

J fUggY`h`K Y]hYfY`ϕZcg`g]bX`\\]Yf`ni`Z]bXYb"

8YhU]`g

6Ygi WλYb`G]Y`i bg`Ui Z.`b!U["XY