

YffY]W h" BcW XfUa Uh]gW Yf']gh'X]Y '9bhk]W_i b['ja
6YgW UZi b[gVYfY]W X'Yf':]fa Yb'gY`Vghz'VY]'XYb'
; fc» \ UbXY`gd fY]gYb. '8]YgY`g]bX'ja 'ž b]i a 'Ž &* ž) i
fY[Y`fYW h'YI d`cX]Yfh" '8]Y'; fc» \ UbXY`gd fY]gY'[Y`hYb`Ui W`U`g
: fØ\]bX]_Uhc f`ZØf`X]Y`k Y]hYfY`9bhk]W_i b['XYf`J YfVfUi W`Yfd fY]gY"
=bgcZYfb`Yfk UfhYh'XYf` \ Y]a]gW`Y` < UbXY`Y]bYb` \ Y]» Yb
< YfVgh ž`Ui ZXYb`g]W`² ghYffY]W`Y`hnh`VYgha Ø[`]W`j c fVYfY]hYb
a i gg"

< ÀbX`Yf`VYZØfW`hYb`A]bi g`]b`&\$&&`i bX`k]fhgW`UZh`]W`Y
=bghUV]`hÀh

8]Y]a a Yf` \ Ø\ YfYb`9bYf[]Y!`i bX`HfY]Vghc ZZ_c ghYb`gck]Y`X]Y`
gW`Y`W`hY`J YfVfUi W`Yfgh]a a i b[] Yf`U[Y`b`XYa
ØghYffY]W]gW`Yb`9]bnY` \ UbXY`]b`X]YgYa `ž\ f`XUg'; YgW`ÀZhž`gc
XUg`nYbh fU`Y`9f[YVb]g`XYf`Øb[ghYb`6`]hni a ZfU[Y`XYg
< UbXY`gj YfVUbXYg"

<]bni ` _ca a h`Hfchn`ghY][YbXYf`DfY]gY`j YfnY]W`bYh'a]hh`Yfk Y]`Y
Y`XY`Xf]hhY`DYfgcb`ja `9fk YfVgU`hYf`9]b`_ca a Ybgj Yf`i ghY" `Fi bX
++i `XYf`² ghYffY]W`Yf.]bbYb`k c`Yb`[fØ» YfY`5i g[UVYb`i bX
=bj Ygh]h]cbYb`Ui ZXUg`_ca a YbXY`ž\ f`j YfgW`]YVYbž`%` i `XYf
6Yj Ø`_Yfi b[`_ca a Yb`a]h` \ fYa ` < Ui g`U`hgY]b`_ca a Yb`_Ui a
bcW`ØVYf`X]Y`Fi bXYb"

< c \ Y`9fk Ufhi b[g`U`hi b[`Ub`XUg`HYi Yfi b[g!
9bh`Ughi b[gdU`_Yh

8Yf` \ Y]a]gW`Y`@YVYbga]hhY` \ UbXY` \ Uh`X]Y` =bZUh]cb`VY]
@YVYbga]hhY`b`i bX`UbXYfYb`DfcXi `hYb`XYg`hÀ[`]W`Yb`6YXUfZg
Xi fW`Y]b`[UbnYg`6ØbXY` `Ub`d fY]gX`Àa dZYbXYb`A U» bU`a Yb
gc`[i h`Yg`[Y`h`Y]b[YVfYa gh" `8Ua]h`fYXi n]YfYb`X]Y` < ÀbX`Yf`nk Uf
X]Y`?Ui Z_fUZh]J Yf`i ghY`XYf`6Yj Ø`_Yfi b[`hY]`k Y]gYž`[`Y]W`nY]h][
a ØggYb`g]Y`UVYf`Ui ZY]bYb`; fc» hY]`]\ fYf`A Uf[Yb`j Yfn]W`hYb`i bX
XYb`J Yf`_Ui Za Ø[`]W`gh`d fY]g[Øbgh][Yf`9][Yba Uf`_Yb`ZcfW]YfYb"
8Yf` < UbXY`gj YfVUbX` \ c Zhž`XUgg`XUg`HYi Yfi b[g!9bh`Ughi b[gdU`_Yh
XYf`6i bXYgfY[]Yfi b[`VU`X`VY]'XYf`6Yj Ø`_Yfi b[`Ub`_ca a hi bX
XUa]h`K]f`_i b[`Yb`hZU`hYh"

<Ui d hhfY]VYf`ZØf`X]Y` \]ghcf]gW\ `c\Y`HYi Yfi b [gfUHY`]a
; fc» \ UbXY`g]bX.

c` : YghY`6fYbbghcZY`fŽ` %&\$ž` | ı ı

c` : Gcbgh][Y`A]bYfU`Ò`YfnYi [b]ggY`fŽ` %%` ž`) ı ı

c` : 6Ybn]b / `8]YgY`fŽ` +) ž`* ı ı

c` : 8Øb[Ya]hhY`b`fŽ` +\$ž`) ı ı

c` : YhfY]XYž`GUUh[i h/ `: i hhYfa]hhY`b`fŽ`)' ž`) ı ı

c` : HYW`b]gWY`7`Ya]_U`Yb`fŽ` ((ı ı

c` : 9]gYb / `GhU`fŽ` ' ' ž` (ı ı

c` : 6ØfcVYXUfZ`fŽ` &(ž`- ı ı

c` : i a a] / `? i bghghcZ`fŽ` &&ž` | ı ı

c` : DUd]Yf`fŽ` &&ž& ı ı

c` : A]`W`ž`9]Yfž`²`Yž` : YhhY`fŽ` &%ž` | ı ı

c` : <c`n`fŽ` %- ı ı

c` : ? UZZYž`HYYž`? U_Uc / `; Yk ØfnY`fŽ` %* ž` ı ı

c` : A ÒVY`fŽ` %) ž` (ı ı

c` : `Y]gW`fŽ` %) ž` ı ı

c` : CVghž`; Ya ØgY / `? UfhcZY`b`fŽ` %&ž`+ ı ı

c` : 5`ha UhYf]U` / `F YghghcZY`fŽ` %&ž` | ı ı

@YVYb`i`bX`K]fhgW UZhYb`a]h`XYa`J]fi g

⇒a`<]bV`]W_`Ui Z`XYb`< YfVgh`VfUi W`h`Yg
D`Ubi b [gg]W`Yf\Y]h"8]Y`dc`]h]gW`Y`Gca a YfdUi gY`_Ubb`b]W`h
ghUfhYbž`k Ybb`bchk YbX][Y`<Ui gØVi b [Yb`cZYb`g]bX"

žgU[h

<UbXY`gj YfVUbX!; YgW`ÅZhZØ\fyf`F U]bYf`K]`"

E i UfUbh`ÅbY!A U» bU\ a Yb`UbdUggYb

⇒bgVYgcbXYfY`gc`hY`X]Y`]a`9d]XYa]Y [YgYhn`bYi` [YgW`UZZYbY
[YgYhn`]W`Y`A Õ[`]W`_Y]hž`J Yf`_Y\fgVYgW`f`Åb_i b [Yb`ghUhh
5VgcbXYfi b [Yb`j cb`]bZ]n]YfhYb`DYfgcbYb`ni`j YfZØ[Ybž` [Ybi hnh
k YfXYb"

žgc`K]`"

5fVY]hga Uf`hfY Zcfa`b]W`h`Ui Z`< YfVgh`j YfgW`]YVYb

K YXYf`X]Y`U_hi Y`"\Ø\Yfy`NU\`Ub`6YgW`ÅZh[hYb`bcW`X]Y
b]YXf][Yfy`5fVY]hg`cgYbei chY`XUfZ`ØVYf`X]Y`Bch`XYf`6Yhf]YVY
\]bk Y [h`Ai gW`Yb.` (%i`XYf`<`ÅbX`Yf`_`U[Yb`ØVYf`
DYfgcbU`a Ub [Y`hfc`hn`,`VYfnU\`i b [`i bX`j YfnY]W`bYb`ni`XYa
Y]bY`\c\Y`:`i`_hi Uh]cb"8]Y`5fVY]hga Uf`hfY Zcfa`XUfZ`XU\Yf
b]W`h]b`XYb`< YfVgh`j YfgW`cVYb`k YfXYbž`UbgcbghYb` [YZ`Å\`fXYh
a Ub`X]Y`GhUV`]h`Åh`XYg`K]fhgW`UZhggmghYa`g"9g`VfUi W`h`Xf]b [YbX
Y]bY`A`cV`]g]Yfi b [`YbYf`A`YbgW`Ybž`X]Y`UfVY]hYb`_ØbbYb`UVYf
b]W`h`k`c`Ybž`i`a`Ui W`YbY`bUW`\U`h][`]b`] \fyf`@YVYb`gg]hi Uh]cb
UVni`g]W`Yfbž`X]Y`UfVY]hYb`k`c`Yb`UVYf`b]W`h`_ØbbYb"

6Ygi W`Yb`G]Y`i`bg`Ui Z.`ZY]gW`i`bXW`"Uh