

## 8 Yg]b Zcfa Uh]cb 'Ybh`Ufj Yb. '? cghYb ZfY]Yf ?ifg 'Ub 'XYf'J < G'A Yhha Ubb!K Ø`ZfUh\

?cghYbZfY]Yf'?ifg'Ub'XYf'J < G'A Yhha Ubb.'9f`YfbYb'G]Yž 8Yg]bZcfa Uh]cb'ni 'Yf\_YbbYb'i bX'gYf]ÒgY'EiY``Yb'ni 'Z]bXYb" 5ba Y`Xib['YfZcfXYf`]WX°

## 8]Y 6YXYi hi b[ 'j cb 'A YX]Yb\_ca dYhYbn ']b NY]hYb 'j cb '8 Yg]b Zcfa Uh]cb

A Yhha Ubb " + Y]bYf K Y`hž ]b XYf + Zcfa Uh]cbYb ]b

GY\_i bXYbgW bY`Y j YfVfY]hYh k YfXYbž [Yk]bbh X]Y : À\][\_Y]hž

8 Yg]b Zcfa Uh]cb ni Yf\_YbbYb i bX ni j Yfa Y]XYbž ni bY\a YbX Ub

6 YXYi hi b[ " 8]YgYg H\Ya U ghY\h ]a 'A]hhY`di b\_h Y]bYg bYi Yb

?i fgYgž XYf ]b XYf J c`\_g\cW gW i `Y fJ < GŁ A Yhha Ubb! K Ø ZfUh\
Ub[ YVchYb k]fX " + D ? ccdYfUh]cb a]h XYf @UbXYgUbghU`h ZØf

A YX]Yb BFK ž k]fX "Ub XfY] 5 VYbXYb 'HfU]b]YfYbXYb j Yfa]hhY`hž k]Y

g]Y g]W ]b XYf : `i h Ub \* Zcfa Uh]cbYb 'VYggYf cf]Ybh]YfYb '\_ObbYb"

#### $9]bV^{M}Y^{J}bXYb?ifg]bU^h$

K À\fYbX'XYg'?i fgYgžXYf'Ua '8]YbghU[ž'' "'GYdhYa VYfž'gck]Y'Ua A cbhU[ž'- "'GYdhYa VYf'i bX'%\* "'GYdhYa VYfž'Yk Y]`g'j cb''%, 'V]g &%"' \$'I \f'ghUhhZ]bXYhž'k YfXYb'X]Y'HY]`bY\a YbXYb']b j YfgWk]YXYbYb'HYWkb]\_Yb'i bX'A Yh\cXYb'XYg'FYWkYfWk]YfYbg [YgWki `h"'8 Ug'N]Y`']gh'Ygž'X]Y'HY]`bY\a Yf']b'X]Y'@U[Y'ni j YfgYhnYbž'gYf]ÒgY'j cb'i bgYf]ÒgYb'E i Y``Yb'ni 'i bhYfgWkY]XYb" 8 Uni '[Y\Òfh'i bhYf'UbXYfYa 'Y]b': U\_hYbWkYW\_ž'XYf'Yg'XYb HY]`bY\a YbXYb'Yfa Ò[`]Wkhž'5i ggU[Yb'\_f]h]gWk'ni '\]bhYfZfU[Yb i bX'8Yq]bZcfa Uh]cbYb'[Yn]Y`h'ni ']XYbh]Z[n]YfYb"

### 8 Yg]b Zcfa Uh]cb 'Y]b '\_ca d Yl Yg D\ Abca Yb

8 Yg]bZcfa Uh]cb'\_Ubb'cZh']b'j YfXYW\_hYf': cfa 'Ui ZhfYhYb.'GY]'Yg
Xi fWX '[ Yn]Y`hY': U`gWXa Y`Xi b[ Ybž'XUg'5i g`UggYb'fY`Yj UbhYf

\dip Zcfa Uh]cbYb'cXYf'Xi fWX'X]Y'VYk i gghY'J Yfa ]gWXi b[ 'j cb': U\_hYb
a ]h': ]\_h]cbž'i a 'Y]bYb'VYgh]a a hYb'Nk YW\_ini 'j YfZc`[ Yb"'8]YgY
H\Ya Uh]\_'k ]fX']a '?i fg'[ fØbX`]WX'VY`Yi WXhYh'i bX'X]Y
HY]`bY\a YbXYb'`YfbYbž'k ]Y'j YfgWX]YXYbY'A YX]Yb' 'j cb'HYI hYb
ØVYf'6]`XYf'V]g'\]b'ni 'J ]XYcg' 'Y]b[ YgYhnh'k YfXYbž'i a 'ZU`gWXY
\dip Zcfa Uh]cbYb'ni 'j YfVfY]hYb"

# =bbcj Uh]j Y @Y\fa Yh\cXYb ]a 6`YbXYX @YUfb]b[

8 Y f ? i fg ] gh 'U `g '6 `Y b X Y X ! @ Y U f b ] b [!: cfa Uh \_ cbn] d ] Y fh ž X U g h f U X ] h ] cb Y ``Y '@ Y \ fa Y h \ c X Y b 'a ] h a c X Y f b Y b 'C b `] b Y ! @ Y f b a c X i `Y b X Y f `A Y X ] Y b V c I 'B F K '\_ca V ] b ] Y fh " 8 ] Y g Y `] b b c j Uh ] j Y '? ca V ] b Uh ] cb g c ```Y ] b Y `UV k Y W g `i b [ g f Y ] W Y 'i b X 'Y Z Z Y \_ h ] j Y '@ Y f b i a [ Y V i b [ g W U Z Z Y b " 'H Y ] `b Y \ a Y f 'g ] b X `X U X i f W `] b `X Y f `@ U [ Y ž '] \ f `K ] g g Y b g c k c \ ``] b `D f À g Y b n Z c fa `U `g `U i W `X ] [ ] h U `n i `Y f k Y ] h Y f b " `

#### $5ba Y`Xi b[ ibX`HY]`bU\a Y$

 $8 ]Y `HY] `b U \ a Y `Ub `X] Yg Ya `k ]W h][Yb `? i fg `]gh'\_cghYb ZfY] \check{z} XYbbc W \\ ]gh `Y]b Y `gW h]Zh `]W Y `5 ba Y `Xi b[ `YfZcfXYf `]W " <math>\Rightarrow$  hYfYgg]YfhY '\_ObbYb g]W `hY `YZcb]gW `i bhYf `f\$ `&% `\$(£'%' '- & `\$ `cXYf `f\$ `&\$ `) , £'- %'\$\$ `&(Uba Y `XYb \check{z} k Y]hYfY  $\Rightarrow$  Zcfa Uh]cbYb `g]bX `Ui W `Ui Z `XYf `K YVg]hY `XYf  $J < G `A Yhha Ubb `ni `Z]b XYb . `k k k "j \g!a Yhha Ubb "XY" 5 `hYfbUh]j ghY \h`XUg `9!A U] `!DcghZUW `]b Zc4 j \g!a Yhha Ubb "XY `ZØf `5 b ZfU[Yb ni f `J YfZØ[i b["$ 

±0.5 b V Y h f U W h 'X Y f 'U\_hi Y ``Y b ' < Y f U i g Z c f X Y f i b [ Y b ž X] Y 'X] Y ; Y g Y ``g W \ U Z h '] a 'I a [ U b [ 'a ] h ' ±0 Z c f a U h] c b Y b '\ U h ž '] g h 'X] Y g Y f '? i f g b ] W h 'b i f 'Y] b Y ; Y `Y [ Y b \ Y] h 'n i f 'K Y] h Y f V] `X i b [ ž g c b X Y f b 'U i W 'Y] b k ] W h] [ Y f 'G W f] h h 'n i f 'G h A f\_i b [ 'X Y f 'A Y X] Y b\_ca d Y h Y b n '] b 'X Y f ; Y a Y] b g W \ U Z h 'j c b 'A Y h h a U b b 'i b X 'X U f Ø V Y f '\ ] b U i g "

#### 8 YhU]`g

6 Ygi WX Yb 'G]Y 'i bg 'Ui Z. 'b!U[ "XY