

## A cV]`Yf'6`]hnYf']b'; YfU.'<Yi hY'cfXYbh`]W\ VfYa gYb']b'DZcfhYb°



 $DZc fhY b \check{z}: 8 Yi hgWX `Ub X `!' < Yi hY \check{z}`Ua `' "'**`]` \& $ \&) \check{z}`]gh`]b `; YfU` ZØf U``Y'5i hc ZU\fYf`Y]bY`Yf\O\hY`K UWX gUa _Y]h`[ YZfU[ h'' <math>\Rightarrow$  XYf`GhUXh ghY\h'Y]b `a cV]`Yf`F UXUf\_UghYb `VYfY]hž`i a `X]Y`; YgWX k ]bX][ \_Y]h XYf`J Yf\_Y\fghY]`bY\a Yf`ni 'ØVYfdfØZYb"'8]Y`[ YbUi Yb `GhUbXcfhY XYf`; YgWX k ]bX][ \_Y]hg\_cbhfc``Yb `VUg]YfYb `Ui Z`U\_hi Y``Yb  $\Rightarrow$  Zcfa Uh]cbYb"`Gc `k i fXY`VYfY]hg`\Yi hY`A cf[ Yb `i a `\* .%\*`I \f`Y]b 6`]hnYf`]b `XYf`H\Øf]b[ Yf`Gh\XhY\_YhhYž`\_cb\_fYh`]b `DZcfhYbž ]bbYf\U`V`Y]bYf`) \$`\_a #\!NcbY`[ Ya Y`XYh"`<]Yf`VYghY\h'X]Y A O[`]WX\_Y]hž`XUgg`fUgYbXY`5i hcZU\fYf`dfca dh`ni f`?UggY`[ YVYhYb k YfXYb"`8]YgY`; YgWX k ]bX][ \_Y]hgØVYfgWXfY]hi b[ Yb`g]bX``Y]XYf Y]bY`XYf`\Ai Z][ ghYb`I fgUWXYb`ZØf`JYf\_Y\fgi bZ\``Yž`k ]Y`bYk g"XY ZYghghY``h"

## $K ]Y Zi b_h]cb]Yfh XYf 6`]hnYf3$

A cV]'Y'6`]mYf'bi mYb'F UXUf[YfÀhYž'X]Y'Y]b'G][bU``Ub

j cfVY]ZU\fYbXY': U\fnYi [Y'gYbXYb"'8]YgY'HYW\bc`c[]Y'Yfa]hhY'h

X]Y'; YgW\k]bX][\_Y]hXi fW\Y]bY'K Y[!NY]h!6YfYW\bi b["'8UVY]

k]fX'XYf'8cdd`Yf!9ZZY\_h'Ub[YkYbXYhž'kUg'X]Y'; fi bX`U[Y'ZØf'X]Y

; YgW\k]bX][\_Y]hgYfa]hh`i b['V]`XYh"'6Y]'Y]bYf'ZYgh[YghY``hYb

; YgW\k]bX][\_Y]hgØVYfgW\fY]hi b['k]fX`Y]b': chc'XYg': U\fnYi [g

Ui Z[Ybca a Ybž'i bX'XYf'6i » [Y`XVYgW\Y]X'k]fX'Ub'XYb

: U\fnYi [\U'hYf'j YfgW\]W\_h"'8cW\Jcfg]W\h'A YggZY\`Yf'\_ObbYb

ni a '6Y]gd]Y``Xi fW\Y]bY'ZU`gW\Y'D`Uhn]Yfi b['XYf'; YfÀhY'cXYf

GhÒfZU\_hcfYb'k]Y'FYZYI ]cbYb'YbhghY\Yb"'8U\Yf'\UVYb'6`]hnYf']b

8Yi hgW\`UbX'Ui W\]\fY'Hc`YfUbnYbž'X]Y'[Yk\A\fh'kYfXYb.'I bhYf

%\$\$'\_a #\`[]Vh'Yg'' \_a #\`5Vni [ž'i bX'VY]'; YgW\k]bX][\_Y]hYb'ØVYf

%\$\$'\_a #\`kYfXYb'' 'DfcnYbh'UV[Ync[Ybž'kUg'

Vi gg[Y`X\_UhU`c["cf['VYghÀh][h"

A cV]`Yg'6`]hnYb']gh'Y]bY'cZh'[Yk À\`hY'A Yh\cXYž'a ]h'XYf'X]Y'Dc`]nY]
ZYI]VY``Ui Z'XUg'JYf\_Y\fg[YgWXY\Yb'fYU[]YfYb'\_Ubb"'+b'j]Y`Yb
GhÀXhYb'k]fX'X]YgY'HYWXbc`c[]Y'fY[Y`a À»]['Y]b[YgYhnhž'i a 'ZØf
a Y\f'G]WXYf\Y]h'Ui Z'XYb'GhfU»Yb'ni 'gcf[Yb"'6Y]gd]Y`gk Y]gY
Vf]b[h'Y]bY'FUXUfUb`U[Y'k]Y'X]Y']b'6]Y`YZY`Xž'X]Y']a '\*J\f'&\$%\$'\*
A ]``]cbYb'9i fc'6i »[Y`XYf'Y]bVfUWXhYž'X]Y'6YXYi hi b['X]YgYf
?cbhfc``Yb'Ui Z'XYb'Di b\_h"

## 8Yf'6`]W\_'ØVYf'XYb'HY``YffUbX

 $\pm 0.72$  ghYffY]WX 'g]b X 'fi b X '%' \$ 'ghUh]c b À fY 'F U X U f U b `U [ Y b ']a '9]b g U h n ž X ]Y 'c Zh 'b i f 'j c b '\ ]b h Y b 'Zc h c [ f U Z ]Y f Y b ž 'i a 'X ]Y 'J Y f \_Y \ f g g ] WX Y f \ Y ]h

ni '[Yk À\f`Y]ghYb"'8]YgY'dfÀj Ybh]j Yb'A U» bU\a Yb'gc``Ybg]W\YfghY``Ybž'XUgg'FY[Y'j YfghÒ» Y'b]W\h'bi f'[YU\bXYhž'gcbXYfbUi W\'j Yfa]YXYb'k YfXYb"'5i W\']a 'Yi fcdÀ]gW\Yb'5i g`UbXž'k]Y']bXYf'GW\kY]nž'\_ca a Yb'a cV]`Y'FUXUf[YfÀhY'ni a '9]bgUhnž'X]YfUgW\'i a [YghY``h'k YfXYb'\_ÒbbYb'i bX'\Ài Z]['a]h'Y]bYfUi hca Uh]q]YfhYb'?YbbnY]W\YbYf\_Ybbi b['UfVY]hYb"

K ]Wkh][ ']ghž'XUgg'g]Wk'5i hcZU\fYf'XYf'a O[ `]WkYb'GUb\_h]cbYb

VYk i ggh'g]bX"'K Yf'Y]bYb'6i » [ Y`XVYgWkY]X'Yf\À`hž'\_Ubb'Xi fWkUi g

9]bgdfi Wk'Y]b`Y[ Ybž']bgVYgcbXYfY'k Ybb'Yg'Nk Y]ZY`'Ub'XYf

E i U`]hÀh'XYg'6Yk Y]gZchcg'cXYf'Ub'XYf'A Ygg[ YbUi ][ \_Y]h'[ ]Vh"'9]bY

VYk i gghY': U\fk Y]gY'i bX'XUg'9]b\U`hYb'j cb

; YgWkk]bX][ \_Y]hg`]a ]hg'g]bX'XYg\U`V'b]Wkh'bi f'ZØf'X]Y'Y][ YbY

G]WkYf\Y]h'j cb'6YXYi hi b[ ž'gcbXYfb'Ui Wk'ZØf'U``Y'UbXYfYb

JYf Y\fghY]`bY\a Yf"

8 Y hU]`g	
Cfh	DZcfhYbž'8YihgWX`UbX
EiY``Yb	• k k k "bYk g"XY
	<ul><li>k k k "Vi gg[ Y`X_UhU`c[ "cf[</li></ul>
	• k k k "gd]Y[ Y`"XY

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