

## i [YbX\_f]a ]bU`]hÀh`]b`K ]Yb. A YggYfUhhUW\_Yb`bY\a Yb`U`Ufa ]YfYbX`ni °

FUi VØVYfZU```]b': Uj cf]hYb.'⇒bYba ]b]ghYf'? UfbYf'ZcfXYfh A U» bU\a Yb'[Y[Yb'¾ [YbX\_f]a ]bU`]hÀh"'5bgh]Y[ hUhj YfXÀW\h][Yf'GmfYf'U`Ufa ]Yfh"



FYi a Ubbd`Uhnž'%%\$\$`K ]Ybž'² ghYffY]WX !! \D`K ]Yb`\UVYb
\_Øfn`]WX X]Y 8 ]g\_i gg]cbYb i a \Di [YbX\_f]a ]bU`]hÀhi bX
; Yk U`hVYfY]hgWX UZh`]b`XYf'; YgY``gWX UZh`Ub': U\fh`Ui Z[Ybca a Yb"
5a '%\* "'\Di b]`\_Ua 'Yg`Ua 'FYi a Ubbd`Uhn`]b': Uj cf]hYb`ni 'Y]bYa
\YZh][Yb`FUi VØVYfZU``ž'VY]`XYa 'Y]b`A Ubb`a ]h'Y]bYa 'A YggYf
Ub[Y[f]ZZYb`k i fXY" 8 Yf' < ]bhYf[fi bX`XYg`, VYf[f]ZZg`gWXY]bh`]b
j Yfa Y]bh`]WXYb`GWXi `XYb`]b' < Ò\Y`j cb'' %\$ '9i fc`ni ``]Y[Yb" \D
X]YgYa ': U```k i fXYb`ZØbZ'GmfYf`U`g`HUhj YfXAWXh][Y`]XYbh]Z]n]Yfh''
< Yi hY`VYf]WX hYhž`XUgg`\DYba ]b]ghYf'; Yf\UfX`? UfbYf`]b`Y]bYf
U\_hi Y``Yb`GWXk Yfdi b\_hU\_h]cb`ni f`6Y\_Aa dZi b[`XYf
\Di [YbX\_f]a ]bU`]hAhY]bXf]b[`]WX`ZcfXYfhYž'A YggYf`i bX`UbXYfY
K UZZYb`Ui g`XYa 'JYf\_Y\f`ni 'n]Y\Yb"

 $9]bYf'XYf'YfgWkfYW_YbXYb'6YZbXYf']gh'XYf'Ybcfa Y'5bgh]Y['XYf'xf'xf'ybcfa Y'5bgh]Y['XYf'xf'ybx_f]a ]bU']h\[angle h']b'K ]Yb'', VYf'XYb'NY]hfUi a 'j cb'&\$&$'V]g &\$&('gh]Y['X]Y'NU\``hUhj YfX\[angle h'] [Yf'GmfYf'i bhYf'%('\flux\)fYb'i a XUg'G]YVYbZUWXY\[angle k' \]A\fYbX'VY]'5Z[\UbYb'i bhYf'%('\flux\)fYb'X]Y NU\``XYf'HUhj YfX\[angle w' h'] [Yb'i a 'XUg': \ØbZZUWXY'Ubgh]Y['''Hfchn'Y]bYg Vi bXYgk Y]hYb'F\[OW_[ Ub[ g'XYf'GhfUZhUhYb'VY]'\%(!'V)g'\&\flux\]A\f][Yb j cb'Yhk U') 'DfcnYbh\[angle a i gghY'K ]Yb'Y]bYb'5bgh]Y['j cb'Yhk U'\%\$DfcnYbh']b'X]YgYf'5`hYfg[ fi ddY'j YfnY]W\[angle bYb''5``Y]b']a 'YfghYb < U`V'U\f'\$\$('[ UV'Yg'VYfY]hg'' ''' i ba \ØbX][ Y'GmfYf'U\g HUhj YfX\[angle w' h'] f'VYfY]hg'- (+'k UfYb'' 6Ygcf[ b]gYffY[ YbX']gh'j cf'U``Ya 'XYf'5bgh]Y['XYf'i bhYf \%('!'\[angle k' h'] Yb''gh']b'K ]Yb''X]Y'j cb'\%, +'Ui Z +\$+'gh]Y[ Yb''$ 

## GWki hna U»bU\a YbibX Dc`]nY]Y]bgAhnY

5a '8]YbghU[ 'ZUbX'Y]bY'[Yn]Y`hY'5\_h]cb'[Y[Yb'X]Y

\$\frac{1}{2} \] \bu']h\text{h'ghUhh\text{t'}VY]'XYf'? UfbYf'[Ya Y]bgUa 'a ]h'@\frac{5}!

CVYfgh'; Yf\UfX'K ]b\_'Yf'i bX'J]nYdf\text{Ag]XYbh': fUbn'9][bYf'XYf

K ]YbYf'Dc`]nY]'Ui ZhfUh''Nk ]gW\Yb'A \text{Afn'\&\text{&\text{\text{\$\te

9gʻ]ghʻVYi bfi \][YbXžʻXUggʻUi W. 'X]Y´U``[Ya Y]bY
; Yk UʻhVYfY]hgWk UZhžʻ]bgVYgcbXYfYʻVY]ʻʻl b[YbʻA YbgWkYbžʻ]bʻ[Ubn
9i fcdUʻY]bʻH\Ya Uʻ]gh'ʻ@Ui hʻY]bYfʻ5bU`mgYʻj cbʻGhUh]ghUʻYffY]Wk hY
X]Yʻ¾ [YbX[Yk Uʻhʻ]bʻ8Yi hgWk`UbXʻ&\$&(`a]hʻfi bXʻ%' ", \$\$`:À``Yb
Y]bYbʻ<ÒWk ghghUbXžʻa Y\fʻU`gʻXcddY`hʻgcʻ\cWkʻk]Yʻ&\$%\* "'9]b
5bgh]Y[žʻXYfʻUi WkʻdgmWk]gWkYʻ6Y`Ughi b[YbʻXi fWkʻX]Yʻ7cfcbU!
A U» bU\a Ybʻi bX`F]g]\_cZU\_hcfYbʻVY]ʻʻl b[YbʻGWki hngi WkYbXYbʻU`g
a Ò[`]WkYʻl fqUWkYbʻ\Uh"

6Y\_`Ya a YbXY`JcfZÀ``Y`]a `BU\j Yf\_Y\f

9]b'k Y]hYfYg'6Y]gd]Y`ZØf'X]Y'ghY][YbXY'; Yk U`hVYfY]hgW\UZh']gh'X]Y hfU[]gW\Y'A YggYfUhhUW\_Y'Ua 'I !6U\b\cZ'Gcd\]Y!7\Uf`chhY!D`Uhn']b 6Yf`]bž'VY]'XYf'Y]b'&-!'À\f][Yf'8Yi hgW\Yf'CdZYf'Y]bYg', VYf[f]ZZg Xi fW\Y]bYb'('!'À\f][Yb'gmf]gW\Yb'HÀhYf'k i fXY"'8Yf'GhfY]hž'XYf ni 'XYa 'hÒX`]W\Yb'J cfZU``ZØ\fhYž'k i fXY'j cb'i b\_`UfYb'A ch]j Yb VY[`Y]hYhž'i bX'XYf'HÀhYf'k Uf'dc`]nY]VY\_Ubbh'Ui Z[fi bX'ZfØ\YfYf ; Yk U`hXY`]\_hY"'8]Y'6Yf`]bYf'NY]hi b['VYf]W\hYhž'XUgg'XYf'HÀhYf bUW\XYf'HUh'X]Y': `i W\hYf[f]ZZž'YXcW\'UbgW\`]Y\*YbX'j cb'XYf Dc`]nY]'ni f'GhfYW\_Y'[YVfUW\h'k i fXY"

±0.6Yf`]b`k]fX`XYfnY]h`Ui W\`X]Y`9]bZØ\fi b[`Y]bYg`K UZZYbj YfVchg]a `OZZYbh`]W\Yb`BU\j Yf\_Y\f`[YdfØZhži a `gc`W\Y`JcfZÀ``Y Y]bni XÀa a Yb"'8]Y`U\_hi Y``Y`G]hi Uh]cb`nY][hž`XUgg`U``Y A U» bU\a Yb`ni f`6Y\_Àa dZi b[`j cb'; Yk U`h`i bX'¾[YbX\_f]a]bU`]hÀh b]W\h'bi f`Xf]b[`]W\ž`gcbXYfb`Ui W\`bchk YbX][`g]bXž`i a `Y]b g]W\YfYg`I a ZY`X`ZØf`U``Y`ni `gW\UZZYb"

8 Y hU]`g	
Cfh	FYia Ubbd`Uhnž'%%\$\$'K]Ybž'2 ghYffY]WX
EiY``Yb	• k k k "\Yi hY"Uh
	<ul><li>k k k "VYf`]bYf!nY]hi b["XY</li></ul>
	<ul><li>XY"ghUh]ghU"Wca</li></ul>

6Ygi WXYb G]Y i bg Ui Z. a Y]b!k ]Yb bYh