

## I bZU``Z`i WX h`]b GhY]b. Dc`]nY] gi WX h NYi [ Yb bUWX '? c``]g]cb nk ]gWX Yb A chcffUX i bX : U\ffUX

NYi [Yb'[Ygi Wkh.'A chcffUXZU\fYf'ZØWkhYhY'bUWk'I bZU```a]h gWkk Yf'j Yf`YhnhYa'FUXZU\fYf']b'GhY]b"'<]bk Y]gY'YfVYhYb°

9]b 'gWk YfYf' J Yf\_Y\fgi b ZU```]b 'GhY]b ž @Ub X\_fY]g': Øfh\ ž 'gcf[ h 'ZØf 5i ZfY[i b[ 'i b X 'ZcfXYfh' X]Y 'Dc`]nY]'ni 'Y]b Yf']b hY bg]j Yb 'Gi Wk Y 'b UWk NYi [ Yb 'Ui Z" '5a ': fY]hU[ ž 'XYa '%\* "'5i [ i gh' & \$ & ( ž '[ Y[ Yb '%%.' \$ 'I \ fž YfY][ b YhY 'g]Wk 'Y]b 'J cfZU`` ž 'VY] 'XYa 'Y]b ') , ! 'À\f][ Yf'F UX ZU\fYf gWk k Yf'j Yf`Yhnh'k i fXY" '8]Yg'[ YgWk U\ ']b 'XYf' 8 Yi hYb V UWk Yf GhfU» Yž k c 'XYf'A Ubb ']b 'Y]b Yf'6 Ui ghY``Y 'i bhYfk Y[ g'k Uf"

BUWN '5b[ UVYb'XYf'Dc`]nY]'VYZ \f'XYf'FUXZU\fYf'X]Y'GhfU» Y']b

F]WN hi b[ 'FY[ Y`gVUWNYf'GhfU» Yž'U`g'Y]b'A chcffUX'Ui g'Y]bYf

GY]hYbghfU» Y'Y]bVc[ 'i bX'a ]h']\a '\_c``]X]YfhY"'\dot XYf': c`[ Y'\_Ua

XYf'), !À\f][ Y'ni ': U```i bX'nc[ 'g]WN'XUVY]'Yf\YV`]WNY

JYf`Yhni b[ Yb'ni ž'X]Y'Y]bY'6Y\UbX`i b[ ']b'Y]bYa '?fUb\_Yb\Ui g

YfZcfXYf`]WN'a UWN hYb"'8Yf'A chcffUXZU\fYfž'XYf'ZØf'XYb'I bZU``
j YfUbhk cfh`]WN']ghž'YbhZYfbhY'g]WN'YXcWN'i bYf`Ui Vh'j ca 'I bZU``cfhž

c\bY'g]WN'i a 'X]Y'YfZcfXYf`]WNY'GWNUXYbgfY[ i `]Yfi b[ 'ni
\_Øa a Yfb"

#### 9fa ]hh`i b[Yb'XYf'Dc`]nY]

8]Y'Dc`]nY]]bgdY\_h]cb'GhY]b'\Uh'gcZcfh'X]Y'9fa ]hhi b[YbUi Z[Ybca a Ybž'i a 'XYb'ZØW\h][Yb'A chcffUXZU\fYf'ni]XYbh]Z]n]YfYb"'Gc`W\Y'J cfZÀ``Y'g]bX'b]W\h'bi f'ZØf'X]Y'CdZYfhfU[]gW\ž'gcbXYfb'k YfZYb'Ui W\': fU[Yb'Ui Zž'k]Y'k]W\h]['Yg']ghž'U`gJYf\_Y\fghY]`bY\a Yf'JYfUbhk cfhi b['ni 'ØVYfbY\a Yb"' K]f'V]hhYbU``Yž'X]Y'XYb'I bZU```VYcVUW\hYh'\UVYb'cXYf'<]bk Y]gY'ni f'\\\\

XYg'A chcffUXZU\fYfg'\UVYbž'g]W\'i a [Y\YbX'VY]'i bg'ni 'a Y`XYb ž Yf\_`AfhY'Y]b'Dc`]nY]VYUa hYf"'8]Y'9fa ]hh`Yf'g]bX'i bhYf'XYf HY`YZcbbi a a Yf'\$- %%'- \* +, &( \$'YffY]W\VUf"

I bZU``Zi WkhYbʻg]bXʻ\_Y]bʻ? Uj U`]YfgXY`]\_h"ʻ9gʻnY][ hʻg]Wkʻ]a a Yf k ]YXYfžʻXUggʻY]b][ Yʻ: U\fYfʻ]bʻ\_f]h]gWkYbʻG]hi Uh]cbYbʻb]WkhʻX]Y J YfUbhk cfhi b[ 'ØVYfbY\a Ybʻk c``Yb"'8]Ygʻ\_ÒbbhYʻb]Wkhʻbi f fYWkh`]WkYʻ?cbgYei YbnYbʻZØfʻXYbʻ: U\fYf`\UVYbžʻgcbXYfbʻUi Wk ZØfʻU``Yʻ6YhY]`][ hYbʻ]a 'GhfU» Ybj Yf\_Y\f"`8]YʻK ]Wkh][ \_Y]h'j cb NYi [ YbVYf]WkhYbʻ\_Ubbʻ]bʻgc`WkYbʻ: À``Ybʻb]Wkhʻ[ Ybi [ 'VYhcbh k YfXYbžʻXUʻg]YʻcZhʻYbhgWkY]XYbXʻZØfʻX]Yʻ5i Z\_`Àfi b[ 'Y]bYgʻJ cfZU``g g]bX"

## 6Ui ghY``Y'U`g'F]g]\_cZU\_hcf

8]Y'8Yi hYbVUWXYf'GhfU»Y'k Uf'ni a 'NY]hdi b\_h'XYg'l bZU``g
Ui Z[ fi bX'j cb'6Ui UfVY]hYb'VYfY]hg'Y]b[ YgWXfÀb\_hž'k Ug'XYb
; YZU\fYbZU\_hcf'ZØf': U\ffUXZU\fYf'Yf\O\Yb'\_ObbhY"'6Ui ghY``Yb
ghY``Yb'cZh']b'i fVUbYb'; YV]YhYb'Y]b'ni gÀhn`]WXYg'F]g]\_c'XUf"
JYf\_Y\fghY]`bY\a Yf'a ØggYb'\]Yf'VYgcbXYfg'UWXhgUa 'gY]bž'XU
g]WX'X]Y'JYf\_Y\fgZØ\fi b[ '\Ài Z][ 'ÀbXYfh'i bX'i bYfk UfhYhY
<]bXYfb]ggY'Ui ZhfYhYb'\_ObbYb"

 $K Y]hYfY * DZcfa Uh]cbYb * ni a `Ni ghUbX * XYg * j Yf YhnhYb * F UXZU \ fYfg g]bX * ni fnY]h * b]W h * j YfZØ[ VUf" * B UW X X]YgYa `J cfZU ``` _ ObbhYb * Ui W 8 ]g_i gg]cbYb `VYnØ[ `]W XYf * G]W Yf \ Y]h * j cb * F UXZU \ fYfb * ]b 6Ui ghY ``YbVYfY]W Yb * bYi `Ui Z_Y]a Yb " 8 Yf * J cfZU ``` Ua `: fY]hU[ `\ Uh gca ]h * b]W h * bi f * i ba ]hhY `VUfY * 5 i gk ]f_i b[ Yb * Ui Z X]Y `VYhfcZZYbYb DYfgcbYb * z * gcb XYfb * _ ObbhY * Ui W * Y]bYb `VfY]hYfYb * 8 ]g_i fg * ØVYf J Yf_Y \ fgg]W Yf \ Y]h * i bX * J YfUbhk cfhi b[ `]a `GhfU * Ybj Yf_Y \ f Ubghc * Yb"$ 

9g'V`Y]Vh'UVni k UfhYbž'cV'X]Y'Dc`]nY]'VU`X'ni 'Y]bYf'@Ògi b[']bX]YgYa ': U``'\_ca a h'i bX'XYf'ZØW\h][Y': U\fYf'ni f'FYW\YbgW\UZh[Ync[Yb'k]fX"'+b'XYf'Nk]gW\YbnY]h'\cZZYb'U``Y'6YhY]`][hYb'Ui ZY]bY'fUgW\Y'; YbYgi b['XYg'j Yf`YhnhYb'FUXZU\fYfg'i bX'ZcfXYfbaY\f5W\hgUa\_Y]h']a 'JYf\_Y\f"

#### 5 i Zfi Z'ni f'A ]h\ ]`ZY

 $: \varnothing f `X] Y `Dc`] nY] `] gh `YXYf' < ] bk Y] g'k ] Wkh] [ \check{z}i a `XYb'l b ZU```ni `_`ÀfYb i bX`_ \varnothing b Zh] [ Y `J c f ZÂ``Y `X] Y gYf `5 fh'ni `j Y f \] bXY fb "`9g`] gh'ni `\c ZZYb \check{z} X U gg `Xi f Wk `X] Y `A ]h\]` ZY `j c b `NYi [ Y b `X] Y `b c hk Y b X] [ Y b \\
\Lamb Z c fa Uh] c b Y b `ni g Ua a Y b h f U [ Y b `k Y f X Y b `_ Ò b b Y b `i b X `X U X i f Wk X] Y `G] Wk Y f \ Y ]h'] a `Gh f U \\ Y b j Y f _ Y \ f `Z\ Ø f `U``Y `hY]` b Y \ a Y b X Y b \ J Y f _ Y \ f gh Y ]` b Y \ a Y f `j Y f V Y g g Y f h`k ] f X "$ 

### $JYf_Y\fgg]WXYfY]hibXIbZU``ghUh]gh]_Yb$

±0.18 Yi hgWX `Ub X `g]b X `J Yf\_Y\fgi b ZÀ ``Y `Y]b Y `XYf`\ Ài Z][ghYb I fgUWX Yb `ZØf`J Yf`Yhni b [Yb ii b X `Hc XYgZÀ ``Y " @Ui h `ghUh]ghU"Wca [UV Yg`]a `\$J\f`&\$&&`a Y\f`U`g`&ž\* `A]``]cb Yb `fY[]ghf]YfhY J Yf\_Y\fgi b ZÀ ``Yž'k cVY]`X]Y`NU\``XYf`J Yf`YhnhYb `VY]`ØVYf' \$\$"\$\$\$`U["'9]bY`\c\Y`5bnU\``X]YgYf`I b ZÀ``Y`VYhf]ZZh`F UXZU\fYfž`X]Y`cZh Ui Z[fi b X `XYf`J Yf\_Y\fg`U[Y`cXYf`XYg`J Yf\U`hYbg`Ub XYfYf J Yf\_Y\fghY]`bY\a Yf`k]Y`5i hcZU\fYf`cXYf`A chcffUXZU\fYf [YZÀ\fXYh`q]bX"

I a 'X]Y'G]W\Yf\Y]h'Ui Z'XYb'GhfU» Yb'ni 'Yf\Ò\Ybž'\Uh'X]Y
6i bXYgfY[]Yfi b['j YfgW\]YXYbY' \dip]h]Uh]j Yb'[ YghUfhYhž'i a
]bgVYgcbXYfY'X]Y'I bZU``nU\`Yb'j cb'FUXZU\fYfb'ni 'fYXi n]YfYb"
8 Uni '[Y\ÒfYb'XYf'5i gVUi 'j cb'FUXk Y[Ybž'j YfghÀf\_hY'?cbhfc``Yb
i bX'5i Z\_`Àfi b[gU\_h]cbYb'ØVYf'JYf\_Y\fgfY[Y`b"'\dip']Y`Yb'GhÀXhYb
k i fXY'Ui W\`XYf': c\_i g'Ui Z'; YgW\k ]bX][\_Y]hgVY[fYbni b[Yb']b
K c\b[YV]YhYb'i bX'Y]bY'VYggYfY'5i Z\_`Àfi b['ØVYf'X]Y'; YZU\fYb
j cb'5`\_c\c`i bX'8fc[Yb']a 'GhfU» Ybj Yf\_Y\f'[Y`Y[h'']

# 9]bZi ggʻj cbʻ6Ui ghY``YbʻUi ZʻX]Y J Yf\_Y\fgg]W\Yf\Y]h

6Ui ghY``Yb`ghY``Yb`Y]bY`ni gÀhn`]W\Y; YZU\fYbei Y``Y`]a GhfU» Ybj Yf\_Y\f`XUfž`XU`g]Y`\Ài Z][ `ni `j YfYb[ hYb`: U\fgdi fYbž I a `Y]hi b[ Yb`i bX`UbXYfYb`J YfÀbXYfi b[ Yb`]a `J Yf\_Y\fgUV`Ui Z ZØ\fYb"`@Ui h`Y]bYf`Ghi X]Y`XYg`8 Yi hgW\Yb`J Yf\_Y\fgg]W\Yf\Y]hgfUhg fBJFŁk YfXYb`FUXZU\fYf`]b`6Ui ghY``YbVYfY]W\Yb`VYgcbXYfg [YZÀ\fXYh"8]Yg``]Y[h'\Ui dhgÀW\`]W\`XUfUbž`XUgg`g]W\`gck c\` FUXZU\fYf`U`g`Ui W\`a chcf]g]YfhY`JYf\_Y\fghY]`bY\a Yf`Ub`X]Y [YÀbXYfhYb`JYf\_Y\fgVYX]b[i b[Yb`UbdUggYb`a ØggYbž`k Ug`cZh`ni A]qqjYfqhÀbXb]qqYb`i bX`I bZÀ``Yb`ZØ\fh"

6Ui ghY``Ybʻgc``YbʻYXcW\`b]W\h'bi f`X]Y`G]W\Yf\Y]h'Ui Z'XYbʻGhfU\Yf\\O\Ybž'gcbXYfb`Ui W\`X]Y`\DZfUghfi \_hi f``Ub[Zf]gh][`j YfVYggYfb" 8]Y`<YfUi gZcfXYfi b[`VYghY\h'XUf]bž'g]W\Yfni ghY``Ybž'XUgg`U``Y JYf\_Y\fghY]`bY\a Yfž']bgVYgcbXYfY`gW\k\AW\YfY JYf\_Y\fghY]`bY\a Yf'k]Y`FUXZU\fYfž'k\A\fYbX`XYf'6Ui UfVY]hYb g]W\Yf'i bhYfk Y[g'gY]b`\_\ObbYb"\\^2 ZZYbh`]W\\_Y]hgUfVY]h'i bX`\_`UfY 6YgW\]`XYfi b[Yb`\_\ObbYb'\\]Yf'\Y`ZYbž'X]Y`G]W\Yf\Y]h'ik\A\fYbX X]YgYf'\\\ VYf[Ub[gd\UgYb'ni '[Yk\A\f`Y]ghYb"

#### FYWXh`]WXY?cbgYeiYbnYb'VY]IbZU``Z`iWXh

BYVYb'XYb'fYW\h']W\Yb'?cbgYeiYbnYb'[]Vh'Yg'UiW\'gcn]U`Y'ibX
j Yfg]W\Yfib[ghYW\b]gW\Y':c`[Yb'ZØf'XYb':U\fYfž'XYf'Y]bYb'IbZU``
j Yfi fgUW\h'ibX'g]W\'ibYf`UiVh'YbhZYfbh''CZh'kYfXYb

GW\UXYbYfgUhnUbgdfØW\Y'\_cad`]n]YfhYfž'ibX'X]Y'JYfg]W\Yfib[\_\_Ubb']a':U``'Y]bYf'IbZU``Z'iW\h'X]Y'GW\UXYbgfY[i`]Yfib[
j Yfk Y][Yfb"'8]Yg'nY][hž'k]Y'k]W\h]['Yg']ghž'U`g'JYf\_Y\fghY]`bY\aYf
JYfUbhkcfhib['ni'@VYfbY\aYb'ibX']a':U``Y'Y]bYg'JcfZU``g
YbhgdfYW\YbX'ni'\UbXY`b''<]YfVY]']gh'Yg'YbhgW\Y]XYbXž'X]Y
fY`YjUbhYb'\DcfaUh]cbYb'UignihUigW\Yb'ibX'X]Y'Dc`]nY]'ni
]bZcfa]YfYb"