

5VYbhYi Yf']b XYb BUh]cbU`dUf_g XYf I G5

9f`YVYb`G]Y`5VYbhYi Yf`]b`XYb`BUh]cbU`dUf_g`XYf`I G5. BUhi fk i bXYfž`I fY]bk c\bYf_i `hi f`i bX`Ui ZfY[YbXY`Ci hXccf! 5_h]j]hÀhYb`k UfhYb`Ui Z`G]Y°



GhY``X]fij cfzXi 'ghY\gh'Ua ': i » Y'Y]bYg'a U'YghAh]gWXYb'6Yf[Ygz'X]Y @ Zh_`Uf'i bX'Zf]gWXzi bX'j cf'X]f'YbhZU`hYhrg]WX'Y]b'DUfUX]Yg'Ui g YbX`cgYb'K A`XYfbz'UhYa VYfUi VYbXYb'K UggYfZA``Yb'i bX [Y\Y]a b]gj c``Yb'DZUXYb'''8]Y'BUh]cbU`dUf_g'XYf'I G5'g]bX'k U\fY GWXUhhfi \Yb'XYf'BUhi f' 'k]'X'i bX'i b[YnA\a hz``UXYb'g]Y'X]WX Y]bz']\fY'K i bXYf'ni 'YbhXYW_Yb'''+b'X]YgYa '5fh]_Y``bY\a Yb'k]f X]WX'a]h'Ui Z'Y]bY'Ui ZfY[YbXY'FY]gY'j cb'gWXbYYYYXYW_hYb;]dZY`b'V]g'ni '[`]hnYfbXYb'K UggYfZA``Ybz'X]Y'; YgWX]WXhYb'j cb ZfØ\Yf'YfnA\`Yb'''9fZU\fYz'k]Y'X]Y'?i 'hi fYb'XYf'I fY]bk c\bYf']b X]YgYb'i bVYfØ\fhYb'@UbXgWXUZhYb'j Yfk i fnY'h'g]bX'i bX'k Y`WXY; Y\Y]a b]ggY'X]Y'K]`Xb]g'dfY]g[]Vh'': Øf'X]Y'5XfYbU']b'A b_]Yg'i bhYf Yi WXz'k UfhYb'gdUbbYbXY'Ci hXccf!5VYbhYi Yf' 'gY]'Yg'VY]a K UbXYfbz'?`YhhYfb'cXYf'K]`Xk UggYf!FUZh]b["'GWXbUdd'X]f'XY]bYb Fi W_gUW_'i bX'Y]b'V]ggWXYb'9bhXYW_Yf[Y]ghz'XYbb'XUg'5VYbhYi Yf XY]bYg'@YVYbg'VY[]bbh'\]Yf''

Jcb'6Yf[[]dZY`b'ni 'K UggYfZÀ``Yb.'9bhXYW_Y X]Y'a U'YghÀh]gW\Yb'BUhi fk i bXYf'XYf BUh]cbU`dUf_g°

8]Y'BUh]cbU`dUf_g'XYf'I G5'g]bX'k]Y'Y]b'[fc»Yfž'YVYbX][Yf?ibghghcZZž'XYf'jcb'XYf'\UbXkYf_`]WXYb'AY]ghYfgWXUZh'XYf'BUhifgY`Vgh'[YZcfah'kifXY"'<]Yf'dfÀgYbh]Yfh'Ach\Yf'BUhifY']\f
VYY]bXfi W_YbXghYg'KYf_.'gWXbYYVYXYW_hY'6Yf[[]dZY`ž'X]Y']a
GcbbYb`]WXh'Zib_Y`bž'ibX'KUggYfZÀ``Yž'XYfYb'fUigWXYbXY'KUggYf
]b'[`]hnYfbXYb'FY[YbVc[Yb'UiZgdf]hnYbXYb'BYVY``jYfkUbXY`b"

*XYYg'X]YgYf'BUhifkibXYf'YfnÀ\`h'gY]bY'Y][YbY';YgWX]WXhY'ibX
`ÀXh'XUni'Y]bž'UiZ'9IdYX]h]cb'ni'[Y\Yb"

6Y[]bbYb'k]f'i bgYfY'FY]gY']a 'MY'`ck ghcbY'BUh]cbU`dUf_ž'XYa
À`hYghYb'BUh]cbU`dUf_'XYf'K Y`h"' ≠ba]hhYb'VfcXY`bXYf'; Ymg]fY'i bX
XUa dZYbXYf'Ei Y``Yb'ghfÒa h'XYf'a U'YghÀh]gWXY'MY``ck ghcbY'F]j Yf
Xi fWX'X]Y'GWX`i WXhYbž'k À\fYbX'X]Y'[i f[Y`bXYb'H\Yfa U`ei Y``Yb
XYa '6Ygi WXYf'Y]b'ZUgn]b]YfYbXYg'GWXUi gd]Y`'V]YhYb"'9]b
<][\`][\h']gh'XYf'; fUbX'Df]ga Uh]WGdf]b[ž'XUg'[fÒ»hY'\Y]»Y
A]bYfU`k UggYfVYW_Ybž'XUg'a]h'gY]bYb'`YVYbX][Yb': UfVYb'bU\Yni
aU[]gWX'Uba i hYh"'<]Yf'ZØ\`h'a Ub'g]WX'k]Y'Y]b': cfgWXYfž'XYf']b
XUg'<Yfn'XYf'9fXY'Y]bhUi WXh"</pre>

GYhnYb`k]f'i bgYfYb`K Y['Zcfh']b`XYb`McgYa]hY`B Uh]cbU`dUf_žXYf < Y]a Uh`UhYa VYfUi VYbXYf'; fUb]hZY`gYb`i bX`VYY]bXfi W_YbXYf K UggYfZÀ``Y'''8Yf`VYfØ\a hY`McgYa]hY`: U``gʻghØfnhʻgdY_hU_i `Àf`+'-: i » ini `HU``i bX`a UW\h`YXYb`K UbXYfYfʻgdfUW\`cgžXYfʻgY]bY`?fUZh i bX`GW\Ob\Y]h`Yf`YVh'''6YgcbXYfgʻ]a `: fØ\`]b[ž'k Ybb`XUg GW\a Y`nk UggYfʻUi gʻXYb`6Yf[YbʻghfÒa hž']gh`XYfʻ5bV`]W_`gW\]Yf ØVYfk À`h][YbX`i bX``Àggh`6Ygi W\Yf`X]Y`fY]W\Y`J]Y`ZU`h`XYf`: `cfU i bX`: Ui bU`i a `g]W\`\Yfi a `VYk i bXYfb''`GhY][YbʻG]Y`Ui ZʻX]Y`5bgY` 5XUa gʻ; U``Yfm`]b`McgYa]hY`JU``Ymži a `X]Y`@UbXgW\UZh`Xi fW\`X]Y @]bgY`Y]bYg`XYf`VY_UbbhYghYb`: chc[fUZYb`XYf`BUhi f`ni `[Yb]Y»Yb''

8]Y'G]YffU'BYj UXUž'a]h']\fYb'gW\bYYVYXYW_hYb';]dZY`bž']gh'b]W\h XUg'Y]bn][Yž'k Ug'X]Y'A Ubb][ZU`h][_Y]h'XYf'BUh]cbU`dUf_g Ui ga UW\h''=a '; `UW]Yf'BUh]cbU`dUf_'Yf`YVYb'5VYbhYi fYf

[Yk U`h][YžY]g][Y; `YhgW\Yfi bX'UhYa VYfUi VYbXY'DUbcfUa Ybž X]Y'Zchc[fUZ]Yfh'k YfXYb'k c``Yb"'6Y]'Y]bYf'K UbXYfi b['Ui Z'XYa; c]b[!hc!h\Y!Gi b!FcUXž'Y]bYf'XYf'gdY_hU_i `ÀfghYb'GhfU» Yb']b'XYb I G5ž'k]fX'XYf'6`]W_'Ui Z'X]Y']a dcgUbhY'6Yf[`UbXgW\UZh'Y]b i bj Yf[Ygg`]W\Yg'9f`YVb]g"'<]Yf'_Ubb'a Ub'XYb'9W\c'@U_Y'i bX'XYb Gh"'A Ufm'@U_Y'VYk i bXYfbž'X]Y']a 'A cf[YbbYVY`'Y]b'a U[]gW\Yg GW\Ui qd]Y`'V]YhYb"

 $HYghYb G]Y \triangleq f \cdot 5 \lor YbhYi Yf! = W \cdot]a \cdot N]cb \cdot B Uh]cb U \cdot d Uf_ \circ \cdot 8]Y \cdot f chYb GUb XghY]bk \ Ab XY \ z \cdot X]Y \cdot XYb \cdot 7 Ubmcb \cdot i a \ [Y \ Y \ b z \ gW \ UZZYb \ Y]bY \cdot Z Ugh Ub XYfY \cdot K \ Y \cdot h'' \cdot K \ Ub XYfb \cdot G]Y \cdot XYb \cdot 5 b [Y \cdot g \cdot @Ub X]b [\ z \cdot Y]b \cdot VY \cdot]Y \lor hY f z UV Yf \ YfUi \ gZc fX Yfb XYf \cdot HfU] \ z \cdot i \ b X \ gd \ ØfY b \cdot G]Y \cdot X Ug \cdot 5 X f Y b U \)b \]b \ XYb \ 5 XYfb \ z' k \ A\ f Y b X \ X]Y \cdot 5 i \ gg]W \ h \ X Ug \ < Yfn \ \ O\ Yf \ gW \ \ U[Yb \ \ Aggh'' \ 8]Y \ 9]b \ Y]h'j \ cb \ <]a \ a \ Y \ i \ b X \ 9fXY \ \]Yf']gh Y]b' I \ f \ Ui \ V \ [YfUhYb \]bg \ 9fX][Y \ z' Y]bY \ F Y]gY \ z' X]Y \ gc k \ c \ \ ` XYb \ ? \ Ofd Yf \ U \ g' Ui \ W \ X]Y \ GYY \ Y \ gh Af_h''$

 $: \emptyset f' \Upsilon XYb' B Uhi f']YV \setminus UVYf' i b X'5VYb hYi fYf']gh' X]Y' 9f_i b Xi b [X]YgYf' B Uh]c b U' d Uf_g' Y]b Y' Y]b a U'][Y'; Y' Y[Yb \setminus Y]h'' A]h'] \ fYb Y]b Xfi W_gj c''Yb' @Ub XgW UZhYb' i b X' XYf' gW]Yf' i b Yfa Ygg']W Yb J]Y' ZU' h' Ub': 'cfU' i b X': Ui b U' V]YhYb' g]Y' i b j Yf[Ygg']W Y' 9f' YVb]ggY ž X]Y']a'; YXÀW hb]g' V' Y]VYb'' GhY][Yb' G]Y' Y]b ž' `UggYb' G]Y' g]W 'j cb XYf': Ugn]b Uh]cb' X]YgYf' B Uhi fgW ÀhnY' a]hfY] <math>^{\circ}$ Yb' i b X' gi W Yb' G]Y X]Y' DYf' Yb' XYf' GW Òb \ Y]h']b' XYb' B Uh]cbU' d Uf_g' XYf' I G5°

5i Z'XYb'Gdi fYb'XYf'l fY]bk c\bYf.'?i `hi f i bX'; YgW\]W\hY']b'XYb'K]`Xb]ggYb'XYf'l G5°

HUI WXYY]b']b'X]Y'ZUgn]b]YfYbXY'K Y`h'XYf'I fY]bk c\bYf'i bX
YbhXYW_Yž'k]Y']\fY'Y]bn][Ufh][Y'?i `hi f'i bX'VYY]bXfi W_YbXY
; YgWX]WX hY']b'XYb'B Uh]cbU`dUf_g'XYf'I G5 ``YVYbX]['k]fX"'8]Y
B Uh]cbU`dUf_g'g]bX'b]WX h'bi f'C UgYb'XYf'B Uhi fž'gcbXYfb'Ui WX
k U\fY'GWX Uhn_Ua a Yfb'XYf']bX][YbYb'; YgWX]WX hY"'6Y[]bbY'XY]bY
FY]gY']a '; fUbX'7Ubmcb'B Uh]cbU`dUf_ž'k c'Xi 'X]Y'; Y`Y[Yb\Y]h
\Ughž'X]Y'HfUX]h]cbYb'XYf'<cd]'i bX'B Uj U'c'ni 'YfZU\fYb"'6Y]
[YZØ\fhYb'Hci fYb'`YfbYb'6Ygi WXYf'b]WX h'bi f'ØVYf'X]Y
VYY]bXfi W_YbXYb'[Yc`c[]gWXYb': cfa Uh]cbYbž'gcbXYfb'Ui WX'ØVYf
X]Y'VYXYi hYbXYb'gd]f]hi Y``Yb'JYfV]bXi b[Yb'XYf'I fY]bk c\bYf'ni

8]Y'K UbXYfi b[Yb'Ybh`Ub['XYg'C`X': U]h\Zi`']a 'MY``ck ghcbY
B Uh]cbU`dUf_'V]YhYb'YVYbgc'Y]bYb'ZUgn]b]YfYbXYb'9]bV`]W_']b'X]Y
; YgWk]Wk hYb'XYf'G\cg\cbY'i bX'7fck "'<]Yf'YfnÀ\`Yb'`c_U`Y
F Ub[Yf'; YgWk]Wk hYb'ØVYf'X]Y'f]hi Y``Yb'DfU_h]_Yb'i bX
@YVYbgk Y]gYb'XYf'I fY]bk c\bYfž'X]Y'gY]h'; YbYfUh]cbYb']a
9]b_`Ub['a]h'XYf'BUhi f'`YVYb"'9]bY'[YZØ\fhY'Hci f'ni 'XYb'\Y]» Yb
E i Y``Yb'`Àggh'X]Wk'b]Wk h'bi f'ghUi bYbž'gcbXYfb'Ui Wk'a Y\f'ØVYf
X]Y'Bi hni b['X]YgYf'[Ych\Yfa]gWkYb'K i bXYf'Xi fWk'X]Y']bX][YbYb

6YgcbXYfg'Y]bXfi W_gj c```]gh'X]Y'6`UW_ZYYh'BUh]cb']a '; `UW]Yf BUh]cbU`dUf_"'<]Yf'\Ugh'Xi 'X]Y'A Ò[`]W_Y]hž'Y]b'hfUX]h]cbY``Yg Dck k ck 'ni 'VYgi W\Ybž'XUg'X]Y'`YVYbX][Y'A i g]_ž'XYb'; YgUb['i bX X]Y'HÀbnY'XYf'6`UW_ZYYh'dfÀgYbh]Yfh"8]Y'?i bgh\UbXk Yf_Yž'k]Y\UbX[YZYfh][hY'6Yi hY`'i bX'[YZÀfVhY'@YXYfk UfYbž'j YfgYhnYb'X]W\]b'X]Y'fY]W\Y'; YgW\]W\hY'i bX'HfUX]h]cb'X]YgYf'; Ya Y]bgW\UZh"'9]b; YgdfÀW\'a]h'`c_U`Yb'?Øbgh`Yfb'YfÒZZbYh'X]f'b]W\h'bi f'Y]bYb9]bV`]W_']b']\fY'_fYUh]j Yb'DfcnYggYž'gcbXYfb'Ui W\']b'X]Y

K Ybb Xi XUg Ui h\Ybh]gW\Y @YVYb XYf I fY]bk c\bYf \Ui hbU\
Yf \YVYb a \OW\hYghz gc \hYgh Xi \X]Y \forall \U\cdot 7i \hi fY \B Uh]c b U\
<]ghc f]\W\DUf_ \VYgi \W Yb \B]YgY I B 9G7C!K Y\h_i \hi fYfVYgh\hY\
V]YhYh X]f \X]Y A \O[\] \[\] \W_Y]hz \U\hY \Fi \] bYb \ni \[\Yf_i \b XYb \z \X]Y \] cb \XYf

Di YV\c!?i \hi f\] \[\] bhYf \UggYb \k i fXYb \B]Y \VYY]bXfi \W_YbXYb

UfW\]hY_hcb]gW\Yb \Ghfi _hi fYb \i bX \XYf \5bV\]\W_ \XYg _\UfYb

B \UW\h\]a a \[\Xgz \XYf \\ \]Yf \ni \[\XYb \VYghYb \XYg \@UbXYg \[\Y\Ofhz \\ \KYfXYb \XY]bY \J cfghY \hi b \[\ij cb \cdot \YgW\] \W\ hY \i b \X \Gd]f]hi \U\]h\hat h'bYi

XYZ]b]YfYb"

5VgWX`]Y» YbX``Àggh'g]WX`gU[Ybž'XUgg'X]Y`BUh]cbU`dUf_g'b]WXh'bi f UhYa VYfUi VYbXY`@UbXgWXUZhYb`V]YhYbž'gcbXYfb`Ui WX`Y]bY h]YZ[fY]ZYbXY`JYfV]bXi b[`ni f`]bX][YbYb`; YgWX]WXhY`i bX`?i`hi f XYf`I G5"'\DXYa`a Ub`g]WX`Ui Z'X]Y`Gdi fYb`XYf`I fY]bk c\bYf VY[]Vhž'ÒZZbYh'a Ub`b]WXh'bi f`X]Y`5i [Yb`ZØf`]\fY`i b[`Ui V`]WXYb ; YgWX]WXhYbž'gcbXYfb`Ui WX`ZØf`X]Y`nY]h`cgY`JYfV]bXi b[`nk]gWXYb

5 X f Y b U`]b 'di f. '8]Y 'V Y g h Y b 'C i h X c c f! 5 V Y b h Y i Y f 'Z Ø f '9 b h X Y W Y f 'i b X 'B U h i f Z f Y i b X Y °

K Ybb XYf GcbbYbUi Z[Ub['X]Y 'gWk fc ZZYb';]d ZY``XYf F c W_m A ci bhU]bg]b Y]b 'gdY_hU_i `ÀfYg': UfVYbgd]Y``hUi Wk hž]gh Yg 'NY]hž XUg '5 VYbhYi Yf 'ni 'VY[]bbYb" '8]Y 'B Uh]cbU`dUf_g 'XYf 'I G5 'V]YhYb Y]bY 'J]Y`nU\``j cb 'A O[`]Wk_Y]hYbž i a 'X]Y 'B Uhi f ']b ']\ fYf Ui ZfY[YbXghYb': cfa 'ni 'Yf YVYb" 'C V 'VY]a 'K UbXYfb 'Ui Z'ghY]`Yb DZUXYbž 'VY]a 'F UZh]b['Xi fWk 'k]`XY 'GhfOa i b[Yb 'cXYf 'VY]a ? `YhhYfb 'Ub 'a U YghAh]gWk Yb': Y`gYb' '\]Yf ']gh 'ZØf 'YXYb 5XfYbU`]b 'i b_]Y 'Yhk Ug 'XUVY]"

9]bYf'XYf'Ui ZfY[YbXghYb'DUf_g'ZØf'Ci hXccf!9bh\i g]UghYb']gh'XYf'; fUbX'7Ubmcb'BUh]cbU`dUf_"'<]Yf'_Ubbgh'Xi 'b]W\h'bi f'X]Y
UhYa VYfUi VYbXYb'5i gV`]W_Y'j ca 'FUbX'XYg'7Ubmcbg'[Yb]Y» Ybž
gcbXYfb'Ui W\'XUg'<Yfn_`cdZYb'gdØfYbž'k À\fYbX'Xi 'a]h'Y]bYa
; i]XY']b'Y]bYa 'FUZh'Xi fW\'X]Y'hcgYbXYb'K Y``Yb'XYg'7c`cfUXc
F]j Yf'dUXXY`gh"'8]Y'GhfÒa i b[Yb'g]bX'b]W\h'bi f'ZØf'YfZU\fYbY
DUXX`Yf'[YY][bYhž'i bX'X]Y'@Y]XYbgW\UZh'XYf'; i]XYg'ZØf'X]Y
FY[]cb'a UW\h'XUg'9f`YVb]g'bcW\'i bj Yf[Ygg`]W\Yf"'8]YgYf
BYfj Yb_]hnY``k]fX'X]f'g]W\Yf'XYb'i `h]a Uh]j Yb'5XfYbU`]bgW\i V
[YVYb°

9]b'k Y]hYfYg'<][\`][\h']gh'XYf'MY``ck ghcbY!BUh]cbU`dUf_žk c Xi 'X]Y'A Ò[`]W_Y]h'\Ughžj YfgW\]YXYbY'Ci hXccf!GdcfhUfhYb'ni Yf_i bXYb"'<]Yfg]bX'j cf'U``Ya 'X]Y'; Ymg]fY'i bX'\Y]» Y'Ei Y``Yb'Y]b YW\hYg'BUhi fd\Àbca Yb"'8cW\'XYf'DUf_'V]YhYh'Ui W\'nU\`fY]W\Y HfU]`g'ZØf'K UbXYfi b[Yb.'CV'Y]bY'<YfUi gZcfXYfi b['ZØf'DfcZ]g'cXYf Y]b'[Ya Øh`]W\Yf'Fi bXk Y['ZØf'X]Y': Ua]`]Y' 'Xi 'Z]bXYgh'[UfUbh]Yfh XYb'dUggYbXYb'K Y["'5b'j]Y`Yb'GhY``Yb'_Ubbgh'Xi 'X]Y'i bVYfØ\fhY @UbXgW\UZh'[Yb]Y» Yb'i bX'XUVY]'k]`XYb'H]YfYb'k]Y'6]gcbgž'K Ò`ZYb i bX'9`W\Yb'VY[Y[bYb"'9]bZUW\'i bj Yf[Ygg`]W\'

K Ybb'Xi 'Ui Z'XYf'Gi WXY'bUWX'YWXhYa 'BYfj Yb_]hnY`'V]ghž'gc``hYgh Xi 'i bVYX]b[h'XYa 'N]cb'BUh]cbU`dUf_'Y]bYb'6Ygi WX'UVghUhhYb" <]Yf'`cW_h'X]Y'VYfØ\a hY'5b[Y`g'@UbX]b[!HfU]`ž'XYf'ZØf'gY]bY

UhYa VYfUi VYbXYb 5i gV`]W_Y 'VY_Ubbh']gh" 'HY]`Y 'XYg 'K Y[Yg 'g]bX gc 'gW\a U`'i bX 'ghY]`Z'XUgg 'Xi 'X]Y '? `YhhYfghY][!HYW\b]_'Yf`YfbYb a i gghž'i a 'g]W\Yf'i bX 'gW\bY``'j cfUbni _ca a Yb"'I bX 'k Ybb 'X]Y gW\k]bXY`YffY[YbXY' < O\Y'X]f'GW\Ui Yf'ØVYf'XYb 'F ØW_Yb '^U[hž k]fgh'Xi 'VY]a '9ffY]W\Yb 'XYg';]dZY`g'a]h'Y]bYa '[fUbX]cgYb DUbcfUa UV`]W_'ØVYf'XUg'N]cb '7 Ubmcb 'VY`c\bh*'6YfY]hY 'X]W\XUfUi Z'j cfž']bg'GW\k]hnYb'ni '_ca a Yb' 'UVYf'XYf'5i gV`]W_']gh'YXY 5bghfYb[i b['k Yfh"

K Ybb 'Yg'X]W 'a Y\fini f'K UggYfcVYfZÀWXY'n]Y\hž']gh'XYf'7\UbbY`

g`Ub Xg'B Uh]cbU'dUf_'Ub'XYf'? ØghY'? U`]Zcfb]Ybg'Y]b'A i gg"'<]Yf
Ubbgh'Xi '? U'U'ZU\fYbž'X]Y'? ØghY'Yf_i bXYb'i bX'X]Y
I bhYfk UggYfk Y`h'VY]a 'GWXbcfWXY`b'Yf'YVYb"'8]Y'`YV\UZhYb
?cfU``Ybf]ZZY'g]bX'b]WXh'bi f'Y]b'DUfUX]Yg'ZØf
I bhYfk UggYfVYk c\bYfž'gcbXYfb'Ui WX'ZØf'X]Yž'X]Y'VY]a
GWXbcfWXY`b'X]Y': UfVYb'XYf'A YYfYgZcfU'Yf`YVYb'a ÒWXhYb"'<U`hY
5i ggWXUi 'bUWX'XYb'bYi []Yf][Yb'GYY`Òk Ybž'X]Y'cZh'X]Y'I a [YVi b[bi hnYbž'i a 'a]h'6Ygi WXYfb'ni 'gd]Y`Yb"'9]b'k U\f\UZh][Yg
B Uhi fUVYbhYi Yf'

± XYb B Uh]cb U`d Uf_g XYf I G5 Z]b XYgh Xi b]W h bif i bj Yf[Ygg`]W Y @Ub XgW UZhYb z gcb XYfb Ui W X]Y dYfZY_hY ?i`]ggY ZØf YXY 5fh j cb Ci h X ccf! 5 V Y bh Yi Yf "DUW_ XY]b Y K Ub XYfgW i \ Y Y]b z gW b Udd X]f Y]b Y Gcbb Y b V f]``Y i b X k U[Y X]W]bg b A W gh Y 5 V Y bh Yi Yf X]Y B Uhi f k Ufh Yh X Uf Ui Zz j cb X]f Y bh X Y W_h ini k Yf X Y b °

GhY``X]f'j cfž'Xi 'ghY\gh'Ui Z'Y]bYa '\cW\'Ui ZfU[YbXYb'6Yf[[]dZY`žXYf'K]bX'fUi gW\h'Xi fW\'XY]b'<UUfž'k À\fYbX'Xi 'Ui Z'X]Y'YbX`cgYbK Y]hYb'XYf'BUh]cbU`dUf_g'V`]W_ghž']b'XYbYb'K UggYfZÀ``Y'a]hY]bYa '`Ui hYb'; YhÒgY'ni 'HU`'ghØfnYb'''<]Yfž'k c'X]Y'BUhi f']b']\fYffY]bghYb': cfa 'Ui ZV`Ø\hž'_Ubbgh'Xi 'XYa': `ØghYfb'XYf'; YgW\]W\hY`Ui gW\Ybž'X]Y']b'XYb'K À`XYfb'i bX'HÀ`Yfb'`YVh''8]Y'Gdi fYb'XYfIfY]bkc\bYf'YfnÀ\`Yb'j cb'Y]bYf'h]YZYb'JYfVi bXYb\Y]h'ni f'9fXYži bX'Xi 'VY[]Vgh'X]W\'Ui Z'Y]bY'FY]gYž'X]Y'b]W\h'bi f'XY]bYb'? ÒfdYfžqcbXYfb'Ui W\'XY]bY'GYY`Y'YffY]W\Yb'k]fX''

CV'Xi 'bi b'XY]bY'; fYbnYb'VY]a 'K UbXYfb'Ui g`chYb'cXYf']b

k]`XYa ; Yk ÀggYf`XYb '5XfYbU`]b_]W_'gi W\Yb 'k]``gh' 'X]Y
B Uh]c b U`d Uf_g 'XYf' I G5 'V]YhYb 'Yb X`cgY 'A Ò[`]W_Y]hYb ž'XY]bYb
]bbYfYb '9bhXYW_Yf'ni 'k YW_Yb"'@Ugg 'X]W\'j cb 'XYf'GW\Òb\Y]h'XYf
B Uhi f']bgd]f]YfYb ž'Yf`YVY'i bj Yf[Ygg`]W\Y'5VYbhYi Yf'i bX'gW\UZZY
9f]bbYfi b[Yb ž'X]Y'Y]b '@YVYb ``Ub['\U`hYb"'DUW_'XY]bY'GUW\Yb'i bX
k U[Y'XYb' < Ød ZYf']bg' I bVY_UbbhY'' 8Y]bY'5VYbhYi Yf'k UfhYb
gW\Cb' 'i bX'X]Y'K]`Xb]g'k]``'j cb'X]f'YbhXYW_h'k YfXYb''

8 Y hU]`c

6Ygi WXYb G]Y i bg Ui Z Y]bY!fY]gY "XY