

K c`ZgVi f[. '8 Yi hgWX`UbXg'A]YhdfY]g! DUfUX]Yg'ZØf'Bcfa U`j YfX]YbYf

9fZU\fYb`G]Y`]b`i bgYfYa `5fh]_Y`ž'k Y`WXY`XYi hgWXYb
; fc»ghÀXhY`XUg`VYghY`JYf\À`hb]g`nk]gWXYb`9]b_ca a Yb`i bX
A]YhdfY]gYb`V]YhYb"'=a `U_hi Y``Yb`]a a ck Y`h!FUb_]b[`k YfXYb
*) `GhÀXhY`UbU`mg]Yfhž'XUfi bhYf`K c`ZgVi f[ž'7\Ya b]hn`i bX
<YfbY"'9bhXYW_Yb`G]Yž'k c`X]Y`A]YhYb`VYnU\`VUf`g]bX`i bX
k Y`WXY`A Yhfcdc`Yb`]a `@Y]ghVUf_Y]hgj Yf[`Y]WX`UVgh]b_Yb"
@YgYb`G]Y`Yhnh`a Y\f`ØVYf`X]Y`K c\bg]hi Uh]cb`]b
8Yi hgWX`UbX°



K c`ZgVi f['U`g'J cfV]`X. 'A]YhdfY]gY'i bX ; Y\À`hYf']a '; `Y]WX [Yk]WX h

±0 'NY]hYb 'ghY][Yb XYf'A]Yhd fY]gY 'i b X 'ghU[b]YfYb XYf'9]b_ca a Yb ghY\h'X]Y 'GhUXh'K c`ZgVi f[']a ': c_i g"'@Ui h'Y]b Yf'U_hi Y``Yb '5 b U`mgY j cb ']a a ck Y`hž'X]Y '*) 'XYi hgW\Y'; fc » ghÀ XhY 'VYhfUW\hYhž'V]YhYh K c`ZgVi f['XUg'VYghY'J Yf\À`hb]g'nk]gW\Yb '6fi hhc[Y\U`h'i b X A]Yhd fY]gYb"'8]Yg'k]fZh'Y]b ']b hYfYggUb hYg'@]W\h'Ui Z'X]Y

K c\bg]hi Uh]cb'i bX'X]Y'U``[Ya Y]bY'@YVYbgei U`]hÀh']b'XYf'GhUXh i bX'_ÒbbhY'U`g'A cXY``'ZØf'UbXYfY'GhÀXhY'X]YbYb"

6Y] XYf 6YhfuW hi b['XYg @Y]ghV Uf_Y]hg!F Ub_]b[g '_ca a h '\YfUi g ž XUgg 'XUg 'A YX]Ub!6fi hhc[Y\U `h 'XYf 'K c `ZgVi f[Yf 'VY] '("+-+'9i fc `]Y[h ž 'k À\fYb X 'X]Y '8 i f W g W b]hhga]YhY 'ZØf 'Y]bY 6YghUb Xgk c\bi b['VY] '`YX][`]W ', ž) ('9i fc 'd fc 'E i UXf Uha YhYf `]Y[h " 8]YgY '? ca V]bUh]cb 'g W UZZh 'ZØf 'X]Y '6Yk c\bYf 'XYf 'GhUXh 'b]W h bi f 'Y]b 'Ub[YbY\a Yg 'K c\bi a ZY `X ž 'g cb XYfb 'g cf[h 'Ui W 'ZØf 'Y]bY \c\Y '@YVYbgei U`]h Àh"

9]b'k Y]hYfYf'5gdY_h'XYf'Ghi X]Y'nY][hž'XUgg'Ui WX']b'7\Ya b]hn'i bX < YfbY'X]Y'A]YhYb'fY`Uh]j 'b]YXf]['g]bXž'k Ug'X]YgYb'GhÀXhYb YVYbZU``g'\c\Y'D`Uhn]Yfi b[Yb']a 'FUb_]b['VYgWXYfh"'7\Ya b]hn ni a '6Y]gd]Y`ž'k c'X]Y'A]YhYb'VY]'* ž\$) '9i fc'dfc'Ei UXfUha YhYf `]Y[Yb'i bX'XUg'9]b_ca a Yb'' "&+- '9i fc'VYhfÀ[hž']gh'hfchn'gY]bYg [Yf]b[YfYb'8i fWXgWXb]hhg[Y\U`hg'Xi fWX'X]Y'b]YXf][Yb'A]YhdfY]gY UhhfU_h]j 'ZØf'Bcfa U`j YfX]YbYf"

 $8 \ Ug`F \ Ub_]b[\ j` \ YfXYi \ h`]WX \ hž'k \]Y`k \]WX \ h][\ `Yg`]ghž`X \ Ugg`X]Y`; \ Y\ A`hYf a \]h`XYb`A \]YhdfY]gYb`GWX f]hh`\ U`hYb"`\D`A \ Yhfcdc`Yb`k \]Y`A \ ØbWXYb cXYf`< Ua \ Vi f[\ j` \ YfgWX`YWX \ hYfh`g]WX`X]Y`G]hi \ Uh]cb`ZØf B cfa \ U`j \ YfX]YbYf`Yf\YV`]WX \ ž`XU`X]Y`A \]YhdfY]gY`]b`X]YgYb`GhAXhYb XfUgh]gWX`Ub[\ Ygh]Y[\ Yb`g]bX"`\D`A \ ØbWXYb`a \ ØggYb`A \]YhYf\VYY]bXfi \ W_YbXY`%, \ ž%&`9i fc`dfc`E i \ UXfUha \ YhYf`VYnU\`Ybž k \ A\ fYbX`X]Y`9]b_ca a \ Yb`b]WX \ h`]a` [` Y]WXYb`A \ U\ Y`ghY][\ Yb"`8]Yg \ ZØ\fh`XUni \ ž`XUgg`j]Y`Y`A \ YbgWXYb`]b`X]YgYb`GhAXhYb \ GWX k \]Yf][\ _Y]hYb`\UVYb\ z`]\ fYb`@YVYbgghUbXUfX`ni`\U`hYb"$

8 Ug +bhYfYggY 'Ub 'A]YhdfY]gYb i bX; Y\À`hYfb ']gh']b 'XYb '`YhnhYb
\$\J\fYb [Yk UW\gYbž'b]W\h'ni 'Yhnh'Ui Z[fi bX 'XYf'ghY][YbXYb 'NU\`
j cb 'Ni nØ[Yb ']b 'X]Y [fc > Yb 'Gh\AXhYž'X]Y c Zha U`g'a]h'Y]bYa
Ub[YgdUbbhYb 'K c\bi b[ga Uf_h'Y]b\Yf[Y\Yb" K c`ZgVi f[\]b[Y[Yb 'nY][hž'XUgg 'Yg'Ui W\ 'a O[`]W\ ']ghž'Y]b '[i hYg
; Y]W\[Yk]W\h'nk]gW\Yb '9]b_ca a Yb i bX 'A]Yh_cghYb 'ni 'Z]bXYb"
8]Yg'_ObbhY 'U`g'6Y]gd]Y 'X]YbYb 'ZØf'UbXYfY 'Gh\AXhYž'X]Y 'Ub 'Y]bYf
J YfVYggYfi b[']\fYf'K c\b!'i bX '@YVYbgei U`]h\h'n'UfVY]hYb'k c``Yb"

Ni gUa a YbZUggYbX``Àgghig]W\`gU[Ybž'XUgg`X]Y`9f[YVb]ggY`XYg
]a a ck Y`h'FUb_]b[g'XYb': c_i g'Ui Z'Y]b'nYbhfU`Yg'H\Ya U'XYf
U_hi Y``Yb'NY]h``Y[Yb.'6YnU\`VUfYf'K c\bfUi a 'ZØf'U``Y''K c`ZgVi f[\Uh'g]W\`\]Yf'U`g'ghUf_Yg'J cfV]`X'dcg]h]cb]Yfhž'k À\fYbX'A Yhfcdc`Ybk]Y'A ØbW\Yb'i bX'<Ua Vi f['kY]hYf\]b'<YfUi gZcfXYfi b[Yb']aA]YhgY_hcfini 'VYk À`h][Yb'\UVYb"

±0.5 b V Y h f U W h 'X Y f 'k] f h g W \ U Z h '] W \ Y b '9 b h k] W_`i b [Y b 'i b X 'X Y a g h \ A b X] [Y b '5 b g h] Y ['X Y f '@ Y V Y b g \ U `h i b [g_cgh Y b 'V `Y] V h 'X] Y ': f U [Y V Y k i g g h 'K] Y '_Obb Y b 'U b X Y f Y 'G h \ X h Y 'X Y b 'K Y ['j c b 'K c `Z g V i f [Y \ Y b 'i b X 'Y] b 'd c g] h] j Y f Y g 'I a Z Y `X 'Z Ø f] \ f Y '6 Ø f [Y f 'g W \ U Z Z Y b 3

8 Y hU]`g

6Ygi WXYb 'G]Y 'i bg 'Ui Z. 'a Y]b!VYf`]b "bYh