

5`_c\c``Ua 'GhYi Yf.'J Yf_Y\fg_cbhfc``Y']b ?U]gYfg`Ui hYfb'n]Y\h'?cbgYei YbnYb

 $5`_c\c`]g]YfhYf'6AK!: U\fYf']b'? U]gYfg`UihYfb'[Yghcddh. %z$$`Dfca]``Y'ZYgh[YghY``hz'CfXbib[gk]Xf][_Y]hYbjYfZU\fYbY]b[Y`Y]hYh"$

?U]gYfg`Ui hYfbžY]bY`GhUXhžX]Y`ZØf`]\fY`fi\][Yb`GhfU»Yb`VY_Ubbh]ghžkifXY`Ua `ZfØ\Yb`GcbbhU[acf[Yb`GW\Uid`Uhn`Y]bYf
VYaYf_YbgkYfhYb`JYf_Y\fg_cbhfc``Y"`Ia`'.'\$`I\f`\]Y`hYb
Dc`]n]ghYb`Y]bYb`6AK`]b`XYf`Nc``UahghfU»Y`Ub`ibX`YbhXYW_hYbž
XUgg`XYf`''!A\f][Y`:U\fYf`ibhYf`5`_c\c`Y]bZigg`ghUbX"`8]YgY
G]hiUh]cb`]gh`b]W\h`bif`Y]b`kY]hYfYf`JcfZU```]a`h\[`]W\Yb
Dc`]nY]U``hU[ž'gcbXYfb'jYfXYih`]W\h`UiW\Y]bY`Yfbgh\UZhY
DfcV`YaUh]_`]a`GhfU»YbjYf_Y\f"

8]Y:c`[YbXYfJYf_Y\fg_cbhfc``Y

BUWW. XYf: YghghY``i b['XYg'5`_c\c`k YfhYg'k i fXY'XYf': U\fYf'ni f 8]YbghghY``Y'[YVfUWW.hž'k c'Y]b'JYfZU\fYb'k Y[Yb'Y]bYf CfXbi b[gk]Xf][_Y]h'Y]b[Y`Y]hYh'k i fXY"'8]Yg'ZØ\fh'ni 'k Y]hYfYb fYWW.h`]WW.Yb'?cbgYei YbnYbž'i bX'a Ò[`]WW.Yfk Y]gY'Yfk UfhYh'XYb

: U\fYf'Ui W\'Y]b': U\fj YfVch"'Gc`W\Y'A U» bU\a Yb'gc``Yb'b]W\h'bi f U`g'GhfUZY'X]YbYbž'gcbXYfb'Ui W\'dfÀj Ybh]j 'k]f_Ybž'i a 'UbXYfY JYf_Y\fghY]`bY\a Yf'ni 'gW\ØhnYb"

BUWX XYa 'XYf'A Ubb'Y]bYb'ZfY]k]'`][Ybž'VYkY]g_fÀZh][Yb
5hYa U`_c\c`hYgh']b'XYb'8]YbghfÀi a Yb']b'XYf'@c[YbghfU»Y
Xi fWX ZØ\fYb'`]Y» ž'k i fXY'Yf'gWX`]Y»`]WX'Ybh`UggYb"'±b'gc`WXYb
: À``Yb']gh'Yg'YbhgWXY]XYbXž'XUgg'X]Y'HYghg'_cffY_h'Xi fWX[YZØ\fh
k YfXYbž'i a 'gdÀhYfYb'fYWXh`]WXYb'5i gY]bUbXYfgYhni b[Yb
j cfni VYi [Yb"'8Ug'Jcf[Y\Yb'XYf'Dc`]nY]']b'X]YgYf'G]hi Uh]cb'nY][hž
k]Y'k]WXh]['Yg']ghž']b'XYf'BÀ\Y'j cb'JYf[bØ[i b[gcfhYb'i bX']b'XYf
BUWXh'U_h]j 'ni '_cbhfc``]YfYbž'i a 'dchYbn]Y``Y'; YZU\fYb']a
GhfU»Ybj Yf_Y\f'ZfØ\nY]h]['ni 'Yf_YbbYb"

$FYY Ubn XYf J Yf_Y fgg]WXYfYh$

8 Yf'J cfZU```]b'? U]gYfg`Ui hYfb']gh'HY]`'Y]bYg'[fÒ» YfYb'HfYbXgž'XYf X]Y'U_hi Y``Y'J Yf_Y\fgg]W\Yf\Y]h']b'XYi hgW\Yb'GhÀXhYb'VYhf]ZZh" =a Yf'k]YXYf'k]fX'ØVYf'X]Y'; YZU\fYb'j cb'5`_c\c`'Ua 'GhYi Yf]bZcfa]Yfhž'i bX'X]Y'DfÀj Ybh]cbgUfVY]h'XYf'Dc`]nY]']gh'j cb'nYbhfU`Yf 6YXYi hi b["'GhUh]gh]_Yb'nY][Ybž'XUgg'Y]bY'Yf\Ò\hY'Dc`]nY]dfÀgYbn i bX'\Ài Z][Y'?cbhfc``Yb'X]Y'NU\``XYf'U`_c\c`VYX]b[hYb JYf_Y\fgi bZÀ``Y'g][b]Z]_Ubh'fYXi n]YfYb'_ObbYb"

@Ui h'XYa 'GhUh]gh]gWXYb'6i bXYgUa h']gh'5`_c\c``bUWX; YgWXk]bX][_Y]h'i bX'8fc[Yb'Y]bY'XYf'\Ài Z][ghYb'I fgUWXYb'ZØf JYf_Y\fgi bZÀ``Y''<]Yf'gd]Y`Yb'5i Z_`Àfi b['i bX'DfÀj Ybh]cb'Y]bY YbhgWXY]XYbXY'Fc``Y''8Yf'JcfZU```Ua 'GcbbhU[a cf[Yb'_ObbhY gca]h'Ui WX'U`g'5`Ufa nY]WXYb'j YfghUbXYb'k YfXYbž'XUgg'hfchn'U``Yf A U» bU\a Yb'ni f'JYf_Y\fgg]WXYf\Y]h'k Y]hYf\]b'<UbX'i b[gVYXUfZ VYqhY\h"

8 Ugʻ6Yk i gghgY]bʻZØfʻX]Yʻ; YZU\fYbʻXYgʻ: U\fYbgʻi bhYf 5`_c\c`Y]bZi ggʻa i ggʻbUW\\U`h]['[YgW\ÀfZhʻk YfXYb"'?Ua dU[bYbž X]YʻØVYfʻX]Yʻ?cbgYei YbnYbʻUi Z_`ÀfYbʻi bXʻX]Yʻ6Yj Ò`_Yfi b[gYbg]V]`]g]YfYbžʻg]bXʻbchk YbX][ži a '`YVYbX][YfYʻ8]g_i gg]cbYb Ubni fY[Ybʻi bX`X]Yʻ; YZU\f`Ui ZʻXYbʻGhfU» Ybʻni ʻa]b]a]YfYb" ±b 'Y]bYf'NY]hž']b 'XYf'j]Y 'Y 'A YbgWX Yb 'bUWX 'bÀWX h`]WX Yb I bhYfbY\a i b[Yb 'X]Y 'YhnhY 'FØW_ZU\fh'bUWX '< Ui gY 'UbhfYhYbž V'Y]Vh'X]Y ': fU[Y']a 'FUi a . 'K]Y'j YfUbhk cfhi b[gVYk i ggh'[Y\Ybk]f'a]h'XYa '?cbgi a 'j cb'5`_c\c`'i a 3'8]Y'FY'Yj Ubn'j cb ?cbhfc`'Yb'i bX'fYWXh`]WXYb'?cbgYei YbnYb'Yf]bbYfh'i bg'XUfUbž XUgg'G]WXYf\Y]h']a 'GhfU» Ybj Yf_Y\f'Y]bY'[Ya Y]bgUa Y 5bghfYb[i b['YfZcfXYfh"

$G]WXYfY]h^{-}a^{-}GhfU*YbjYf_YYf$

8]Y'9fY][b]ggY']b'?U]gYfg`Ui hYfb'g]bX'b]W\h'bi f'Y]b'9]bnY`ZU``ž gcbXYfb'Y]b'5i Zfi Z'ni f'k Y]hYfYb'5i gY]bUbXYfgYhni b['a]h'XYa JYf\U`hYb']a 'GhfU» Ybj Yf_Y\f"'*XXYf']gh'[YZfU[hž'j YfUbhk cfh`]W\ni\UbXY`b'i bX'X]Y'Y][YbYb'; fYbnYb'ni '_YbbYb" : Ø\fYfgW\Y]b]b\UVYf'\UVYb'Y]bY'DZ]W\hž'X]Y'JYf_Y\fgfY[Y`b'ni VYZc`[Yb'i bX'gca]h'XUni 'VY]ni hfU[Ybž'l bZ\``Y'ni 'j Yfa Y]XYb"

±0.5 b V Y h f U W h 'X Y f 'k] Y X Y f \ c `h Y b 'J c f Z À ``Y 'i b X 'X Y f '_ `U f Y b [Y g Y h n `] W Y b 'J c f g W x f] Z h Y b 'g c ``h Y 'Y X Y f '9] b n Y `b Y 'g Y] b Y 9 b h g W X Y] X i b [Y b 'j c f ': U \ f h U b h f] h h 'Ø V Y f X Y b _Y b ' [Y f U X Y ž 'k Y b b 5 `_c \ c ``] a 'G d] Y ``] g h " 8 Y f 'J c f Z U `` 'U a 'G c b b h U ['n Y] [h 'i b g ž 'k] Y k] W X h] ['Y g '] g h ž 'Y] b Y 'g] W X f Y 'i b X 'j Y f U b h k c f h i b [g j c ``Y ': U \ f k Y] g Y Z Ø f 'Y] b Y 'V Y g g Y f '[Y g W X Ø h n h Y '; Y a Y] b g W U Z h 'n i 'Z Ò f X Y f b ž 'i a 'X] Y G h f U ``Y 'g] W Y f Y f 'n i 'a U W Y b "

$8]Y'; YZU\fYb'XYg'5`_c\c``Ua'GhYiYf$

5`_c\c``Ua `GhYi Yf`ghY``h`Y]bY`Yf\YV`]W\Y'; YZU\f`ZØf`X]Y

J Yf_Y\fgg]W\Yf\Y]h`XUf"`@Ui h`XYa `8 Yi hgW\Yb

J Yf_Y\fgg]W\Yf\Y]hgfUh`f8 J F Ł`g]bX`U`_c\c`VYX]b[hY`I bZÀ``Y`Y]bY

XYf`< Ui dhi fgUW\Yb`ZØf`J Yf_Y\fghchY`]b`8 Yi hgW\`UbX"`6YfY]hg`VY]

Y]bYa `6`i hU`_c\c`[Y\U`h'j cb`\$ž` `Dfca]``Y`ghY][h`XUg`F]g]_cž`]b

Y]bYb`I bZU```j Yfk]W_Y`h`ni `k YfXYb"`5V`Y]bYa `Dfca]``Yk Yfh'j cb

\$ž) `[]`h`a Ub`]b`8 Yi hgW\`UbX`U`g`ZU\fi bhØW\h][ži bX`Yg`_ÒbbYb

Ya dZ]bX`]W\Y`GhfUZYb`j Yf\Àb[h`k YfXYb"

Ni gÀhn`]W\ni 'XYb'fYW\h`]W\Yb': c`[Yb'_ca a Yb'Ui W\ [Ygi bX\Y]h`]W\Y'F]g]_Yb'ZØf'X]Y': U\fYf'i bX'UbXYfY JYf_Y\fghY]`bY\a Yf`\]bni "'6Y]'5`_c\c``]a '6`i h'VYY]bhfÀW\h][h'X]Y FYU_h]cbgnY]h'Yf\YV`]W\žii bX'X]Yg'_Ubb'ni ': Y\`Yfb'VY]a '6fYa gYb cXYf'F]W\hi b[gk YW\gY`b'ZØ\fYb"'8]Yg'j YfXYi h`]W\hž'k]Y'k]W\h][DfÀj Ybh]cbga U» bU\a Yb'g]bXž'i a 'X]Y'NU\`'XYf'U`_c\c`VYX]b[hYb JYf_Y\fgi bZÀ``Y'ni 'fYXi n]YfYb"

GhUh]gh]_'ni f'5`_c\c`VYY]bZ`i ggi b[']a GhfU» Ybj Yf_Y\f

8]Y'8ib_Y`n]ZZYf`gc`W\Yf`JcfZÀ``Y`_ÒbbhY`bcW\`\Ò\Yf`gY]bž`XU
j]Y`Y`U`_c\c`VYX]b[hY`: U\fhYb`b]W\h`[Ya Y`XYh`k YfXYb": c`[`]W\\UVYb'j YfgW\]YXYbY`Cf[Ub]gUh]cbYb'i bX`+b]h]Uh]j Yb'ni gÀhn`]W\Y\Dfc[fUa a Y`]bg`@YVYb'[Yfi ZYbž'i a `XUg`6Yk i gghgY]b`ZØf`X]Y; YZU\fYb'j cb'5`_c\c``]a `GhfU»Ybj Yf_Y\f`ni `gW\ÀfZYb"

JYf_Y\fg_cbhfc``Yb`i bX`A U»bU\a Yb`XYf Dc`]nY]

8]Y'Dc`]nY]'ZØ\fh'fY[Y`a À»]['JYf_Y\fg_cbhfc``Yb'Xi fW\ži a U`_c\c`]g]YfhY': U\fYf'Ui g'XYa 'JYf_Y\f'ni 'n]Y\Yb"'8]YgY ?cbhfc``Yb'YfZc`[Yb'j cf'U``Ya '\Ài Z]['k À\fYbX'XYf'BUW\h!'i bX A cf[Ybghi bXYbž'k]Y'Ui W\']b'XYa 'j cf`]Y[YbXYb': U```]b ?U]gYfg`Ui hYfb"'8Yf'9]bgUhn'j cb'5hYa U`_c\c`hYgh[YfÀhYb']gh XUVY]'Y]bY'[Àb[][Y'A Yh\cXYži a 'X]Y'Dfca]``Yk YfhY'gW\bY``i bX ni j Yf`Àgg]['ni 'VYgh]a a Yb"

=a 'FU\a Yb'XYf'JYf_Y\fgg]W\Yf\Y]hgUfVY]h'k]fX'Ui W\'[Yn]Y`h'Ui Z DfÀj Ybh]cbga U»bU\a Yb'\]b[Yk]YgYbž'i a 'X]Y'6Yj Ò`_Yfi b['ØVYf X]Y; YZU\fYb;XYg: U\fYbgi bhYf;5`_c\c`Y]bZi gg:Ui Zni _`ÀfYb":\dag{b} j]Y`Yb;Gh\AXhYb;Z]bXYb;fY[Y`a \And And]['K cf_g\cdgi bX JYfUbghU`hi b[Yb;ghUhhz;X]Y;Ui Zj YfUbhk cfhi b[gVYk i gghYg JYf\U`hYb;]a 'GhfUnybj Yf_Y\f;UVn]Y`Yb"

8 YhU1`a

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