

## 8UVY`g`Ni \_i bZh`]b ; YZU\f3'GhfY]h'i a '))\$ 5gm`VYk YfVYf']b 'U`hYf'? UgYfbY°

 $8 ]g_i gg]cb'i a ') ) \$'5gm`VYk YfVYf']b'8 UVY`. \\ 9]bk c \bYfdfchYghY'[ Y[ Yb'X]Y'D`AbY'XYf'FY[ ]Yfi b[ 'i bX Z]bUbn]Y``Y' < YfUi gZcfXYfi b[ Yb"$ 

8 UVY`ž'A YW\_`YbVi f[!J cfdca a Yfbž'8 Yi hgWX`UbX'!'\ba ]hhYb
XYf'a U`Yf]gWXYb'@UbXgWX UZh'XYg'B Uhi fdUf\_g'GhYfbVYf[Yf
GYYb`UbXgWX UZh']b'A YW\_`YbVi f[!J cfdca a Yfbž'VY\_Ubbh'ZØf'gY]bY
K À`XYf'i bX'K UggYfž'VfcXY`h'Yg'[Yk U`h][ \*'8 Ug'VYgWX Ui `]WXY
2 fhWXYb'8 UVY`'ghY\h'?cdZž'k Y]`'dc`]h]gWX 'YbhgWX]YXYb'k i fXYž'XUgg
))\$'5gm`VYk YfVYf']b'Y]bYf'Y\Ya U`][Yb'?UgYfbY'i bhYf[YVfUWXh
k YfXYb'gc``Yb"'8]Y'9]bk c\bYfnU\`'j cb'[YfUXY'a U`'%"' \$\$'GYY`Yb
\_`ObbhY'gc'XfUa Uh]gWX'j YfÀbXYfh'k YfXYb"'\\*XYf'Xf]hhY
8 cfZVYk c\bYf'Y]b'5gm`VYk YfVYf3'9]b'5i ZqWXfY]'[Y\h'Xi fWXg'8cfZ°

8 Yf 5 Z8 !@Ub XhU[gUV[YcfXbYhY '\$Jb!D\]``]d 'HUXgYb 'Yf\YVh'X]Y
Gh]a a Y i b X '\_f]h]g]Yfh `Ui hghUf\_ 'X]Y 8 cddY `a cfU `XYf Dc `]h]\_" '\delta
Y]b Ya '8 c\_i a Yb hUfZ]`a 'k i fXYb 'Gh]a a Yb 'Y]b[YZUb[Ybž'X]Y ']b 'XYb
\_`Ugg]gW Yb 'A YX]Yb 'k Yb][ '; Y\Of Z]b XYbž'Y]b 'Y]b Xf]b[ `]WX Yg
NYi [b]g 'XYf '5 Vk Yb Xi b[ 'j ca 'OZZYbh`]WX Yb 'F i b XZ b\_ i b X XYb
FY[]Yfi b[gdUfhY]Yb" 'K Ug 'O fY]`]WX!A U[Un]b Qf\ hhdg. #k k k "ZfY]`]WX!
a U[Un]b"Wca #dc`]h]\_#YXYf!Xf]hhY!XcfZVYk c\bYf!Y]b!Ugm`VYk YfVYf!
X]Y!a ][fUh]cbg\_f]gY!]b!XYb!\_ca a i bYb!Ua !VY]gd]Y`!XUVY`\text{L}
UbdfUb[Yfhz']gh'X]Y '][bcf]YfhY '6 Øf[Yf]b]h]Uh]j Y '[Y[Yb 'X]Y 'hYi fY
; fc» i bhYf\_i bZh"

## 6Øf[YfdfchYghibXZ]bUbn]Y``Y?f]gY

8]Y 'A YbgW\Yb 'Ui g'8UVY``k Y\fYb'g]W\' '``Ui h'i bX'a ]h'BUW\Xfi W\_ ° 8 cW\ 'X]Y 'J YfUbhk cfh`]W\Yb'gW\Y]bYb'hUi V'ZØf'X]Y'Gcf[ Yb'XYf

 $6 \varnothing f[\ Yf"\ GhUhhXYggYb\ hfÅ[\ hXYf"[\ Yd\ UbhY\ 6Ui\ Y]bYf\ bYi\ Yb ; \ Ya\ Y]bgWX\ UZhgi\ bhYf_i\ bZhYf\ YV\ ]WX\ ni\ f\ Ub[\ YgdUbbhYb ; \ ]bUbn_f]gY\ ]b\ A\ YW_YbVi\ f[\ !J\ cfdca\ a\ Yfb\ VY]"\ GWX\ cb\ Yhnhia\ i\ gg XUg\ @UbX\ a\ ]h\ a\ Ugg]j\ Yf\ J\ YfgWX\ i\ Xi\ b[\ V]g\ &\&- fYWX\ bYbZ\ X]Y \ 5i\ g[\ UVYb\ Z\varnothing f\ 5gm\ VYk\ YfVYf\ j\ YfghÅf_Yb\ X]Y\ ?f]gY\ bi\ f\ k\ Y]hYf" A\ ]``]cbYbVYhfÅ[\ Y\ k\ YfXYb\ Z\varnothing f\ X]Y\ &ghUbXgYhni\ b[\ XYf\ ?UgYfbY\ j\ YfUbgWX\ U[\ h"\ 8\ Ug\ g]bX\ ;\ Y\ XYfZ\ X]Y\ gWX\ a\ Yfn\ ]WX\ Z\varnothing f \ &ZfUghfi\ _hi\ fdfc\ Y_hY\ ZY\ YbZ\ gc\ k\ ]Y\ VY]\ XYf\ a\ UfcXYb \ &ZfUghfi\ _hi\ f\ Ua\ <c\ nYbXcfZYf\ GYY"$ 

K À\fYbX'a Ub']b'XYf'; Ya Y]bXY'j Yfnk Y]ZY`h'j Yfgi W\hž'; Y\Òf'ni Z]bXYbž'k Ufbh'XYf'K ]fhgW\UZhg\]ghcf]\_Yf'K YfbYf'D`i a dY']b'XYf : 5N. '8Yi hgW\`UbX'`YVh'[YZÀ\f`]W\'Ui Z'Di a d°'GY]b'XØghYfYg'6]`X Y]bYf'ØVYffY]nhYb'J YfgW\i `Xi b[g[fYbnY'`Àggh'YfU\bYbž'XUgg X]YgY'A][fUh]cbgdc`]h]\_'XYf'FY[]Yfi b['b]W\h'ni \_i bZhgg]W\Yf']gh''

## 9]b Vf]gUbhYg Ni \_i b Zhgh\ Ya U

A ]h'XYf'6i bXYghU[ gk U\``&\$&(`\_ObbhY`X]YgYg'H\Ya U'YbX`]W\`XYbbchk YbX][ Yb'dc`]h]gW\Yb'8 fi W\_'VY\_ca a Yb"'J ]Y`Y'\cZZYb'Ui Z'Y]bY'?Y\fhk YbXY']b'XYf'A ][ fUh]cbgdc`]h]\_ž'XYbb'X]Y'781 'gW\Y]bh'c\bY'Y]bYb'GW\i`hYfgW\i gg'a ]h'XYf'5Z8'\_Y]bY'dfc[ fYgg]j Yž[ Ubn\Y]h']W\Y'@Ogi b[ 'UbV]YhYb'ni '\_ObbYb"'9]bY'FØW\_\_Y\f gmf]gW\Yf'GhUUhgUb[ Y\Of][ Yfž'VYX]b[ h'Xi fW\bYi Y A UW\hj Yf\A`hb]ggY'bUW\'XYa 'Ghi fn'j cb'5ggUXž'\_ObbhY'XUVY]'Y]bY'YbhgW\Y]XYbXY'Fc``Y'gd]Y`Yb"'8]Yg'\_ObbhY'j cb'Y]bYa '`Ab[ YfYbJYfV'Y]V']b'8Yi hgW\`UbX'UV\U`hYb'i bX'bYi Y'DYfgdY\_h]j Yb'ZØf \disphY[ fUh]cb'i bX'gcn]U`Yb'Ni gUa a Yb\U`h'V]YhYb"

±0.78 UVY``i bX`UbXYfYb`; Ya Y]bXYb`A YW\_`YbVi f[!Jcfdca a Yfbg k ]fX`g]W\hVUfž`k Ug`Nk Ub[gni k Y]gi b[Yb`i bX`ØVYfZØ``hY 5gmi bhYf\_ØbZhY`bUa Ybg` K ]``\_ca a Ybg\_i `hi f `Ubf]W\hYb \_\ObbYb"`8]Y`VfcXY`bXY`I bni Zf]YXYb\Y]h`XYf`6Øf[Yf`gW\k Uddh`Ui Z XUg`dc`]h]gW\Y`DUf\_Yhh`ØVYf`i bX`k ]fX`Y]bY`[Yk ]W\h][Y`Fc``Y`]b`XYb \_ca a YbXYb`dc`]h]gW\Yb`8]g\_i gg]cbYb`gd]Y`Yb` `XUg`[UfUbh]Yfh X]Y`5bnY][Y`j cb`GhUUhgj YfgU[Yb`Ui Z'I "Wca"

 $\label{eq:conditional} $C \cdot bY'NkY]ZY \tilde{z}'X]Y'9fY][b]ggY' \cdot ]Yf'g]bX'kY]hUi g'a Y \cdot f'U \tilde{y}'Y] $$$ 

8 Y hU]`g	
J c f ZU``	A][fUh]cbž; YgibX\Y]hg_f]gY
I fgUWX Y	: ]bUbn_f]gYžA ][ fUh]cbgdc`]h]_žcZZYbY'; fYbnYb
Cfh	8UVY`ž'A YW_`YbVi f[!J cfdca a Yfbž
	8 Ying W. `Ub X
GWX UXYb ']b '	%\$-\$\$\$\$\$

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