

SOLA4953, SOLA9453

F YgYUfWx 'H\Yg]g'7

HYfa %Z &\$&&



7 ci fgY`Cj Yfj]Yk

GHJZ`7 cbhJW`8YHJ]`g

7cbj Ybcfg

B Ua Y	9a Uj`	5j Uj`UVj`]m	@cWUjcb	D\cbY
A Yf]bXY`? Um	a " Um4 i bgk "YXi "Ui	d`YUgY`Ya Uj`hc a U_Y`Ub Uddc]bha Ybh	H9H6`fcca &%)	- \$*) `)) &\$
A i fUX`HUmYV`YY	a "hUmYV`YY4 i bgk "YXi "Ui	d`YUgY`Ya Uj`hc a U_Y`Ub Uddc]bha Ybh	H9H6`fcca &(&	Ž *%&`- \$*) *%& ,

GWXcc``7cbhJW`bZcfa Uh]cb

GWXcc``cZD\chcj c`hJ]WUbX`F YbYk UV`Y`9bYf[m9b[]bYYf]b[

9a Uj]: [gdfY`YhYUWX\]b\[4 i bgk "YXi "Ui](#)

]bWl X]b['WUgg'WcbUWk\ci fgžcH.Yf`YUfb]b['UWfj]hYgždfYdUfUhc b'UbX'hja Y'gdYbhcb'U`UggYggUV`Y
k cf_"

Mci 'g\ci 'X'U]a 'hc'gdYbX'UVci h*'\f#_'cb'h.]g'Wci fgY""H\Y'UXX]hc bU'hja Y'g\ci 'X'VY'gdYbh]b'a U_]b[
gi fY'hUhmc i' bXYfghUbX'h\Y'a Uhf]U'ž'Wca d'Yh]b['h\Y'gYhXY'j] YfUV'Ygžž fH\Y'fYUX]b[ž'UbX'd'Ubb]b["

H\Yg]g ; i]XY`]bYg

5ggYgga Ybh

H\Yg]g'7' HUg_	8i Y'8UH'	; fUXYX
H\Yg]g'Gi Va]gg]cb	K YY_ '%\$' '&&bX'5df]'ž: f]XUm Vm%&da 'fa]XXUmŁ	* \$i fGi dYfj]gcf#5ggYggcfŁ
J]XYc'DfYgYbhU]cb	K YY_ '%\$ž&&bX'5df]'Vm) da) i

8YHU]g'cb'gdYW]WfYei]fYa Yb]g'cZH\Y'UW' U' H\Yg]g'gi Va]gg]cb'WU'VY'Zci bX'cb'a ccX'Y"

Gh XYb]g'a i gha U_Y'gi fY'H\Ym\Uj Y'Xck b'cUXYX'H\Y'f'a d'UH'Zcf'k f]h]b['H\Y'H\Yg]g'

H\Yg]g'DUfh7 '\Ug'U'hcU'cZ%\$\$'a Uf_gžVfc_Yb'Xck b'Ug.

5ggYgga Ybh	i 'Wcb]f]Vi h]cb'hc'Z]bU'a Uf_ '%\$\$i
@]YfU]h fY'fY]]Yk'UbX'dfc'YW]d'Ub	%\$
GYa]bUf'DfYgYbhU]cb	%\$
Dfc[fYgg'l dXUH')
:]bU'F Ydcfh	* \$
DUfh]W]dU]cb'UbX'9b[U[Ya Ybh	%\$
J]XYc'DfYgYbhU]cb)

'ZH\YfY]g'U'g][b]Z]W]bhX]ZYfYbW'VY'k YYb'H\Y'a Uf_gž'H\Y'gi dYfj]gcf'UbX'UggYggcf'k]''VY'Ug_YX'hc
X]g]W'gg'H\Y'a Uf_g'UbX'hc'W'ca Y'hc'Ub'U[fY'Ya Yb]h'Z'H\Y]g]g'bchidcgg]V'Yž'U'gY'W'cbX'UggYggcf'k]''VY
Uddc]bh'YX''H\Y'k'c'a Uf_g'h\U]hUfY'W'cgYgh'hc'k]h]b'%'\$'k]''VY'hU_Yb"

BC H9. ''@UH'k f]h]b'k cf_'k]''VY'dYbU'j]nYX') 'a Uf_g'dYf'XUm]fci hcZH\Y''*\$'a Uf_g'Uk UfYX'Zcf'H\Y'H\Yg]gŁ'
DYbU'hmUdd']Yg'i bh]'H\Y'a Uf_g'Zcf'H\Y'W'ci fgY'XYWYUgY'hc') '\$'5bmiH\Yg]g'bch]h'fbYX'j]b'k]h]b'*'k YY_g
UZ]f'H\Y'XYUX'j]bY'k]''VY'Z]bU'j]gYX'UhnYfc'f\$Ł'a Uf_g

DfYgYbhU]cb

hc`Ugg]ghk]h`a YYh]b[`UggYggUV`Y`fYei]fYa Ybhg"Gi Va]gg]cbg`k]`VY`a Uf`YX`UWwcfX]b[`hc`h`Y`a Uf_]b[[i]XY`]bYg`dfc]]XYX"

Cj Yfj]Yk `cZU`5ggYgga Ybhg` : cf`H\Yg]g`5 #6 #7

H\Yg]g`5. `h]g`]bhYbXYX`h`UhH\Yg]g`5`Wc] Yf`h`Y`g`Wc`d]b[`z`d`Ubb]b[`z`UbX`Wc`a`d`Y`h]b[`dfYdUfU]cbg`Zc`f`h`Y`
dfc`Y`W`

%` Dfc`Y`W`h`D`U`b`-`h`]g`k`]`Wc`a`df]gY`U`%&`dU[Y`XcW`a`YbhYI`d`U]b]b[`h`Y`Y`g`h]Z]W]h]cb`Zc`f`h`Y`]f`dfc`Y`W`z`
U`fci` [`U`mci` hcZU`d`U`b`c`Zk`cf`_`h`fci` [`ci` h`h`Y`d`fc`Y`W`z`]bW`i`X]b[`U`bmgc`Zk`UfY`z`a`Y`h`c`Xg`Y`h`W`z`
h`Y`mb`Y`Y`X`h`c`V`Y`f`U]b`Y`X`c`b`"f`H`Y`g]g`
&"`@]h`f`U`h`f`Y`U`b`X`D`f`c`[`f`Y`g`g`f`Y`j`Y`k`-`h`]g`g`l`ci`X`Wc`a`df]gY`h`Y`f`Y`j`U`b`h`i`h`f`U`h`f`Y`U`b`X`V`U`W`_`[`f`ci`b`X`c`Z`
h`Y`h`c`d]W`z`h`Y`d`fc`V`Y`a`g`h`U`h`Y`a`Y`bh`U`b`X`a`c`h]`U`h]cb`Zc`f`h`Y`k`cf`_`U`b`X`U`X`Y`h]j`Y`X`f`Y`g`Y`U`f`W`d`U`b`":`cf`
X`Y`h]j`g`c`Zk`U`h`h`c`]bW`i`X`Y`g`Y`Y`V`Y`c`k`]b`5`gg`Y`g`g`a`Y`bh`

H\Yg]g`6. `H`Y`d`f]a`U`f`m]b`h`Y`b`h]cb`V`Y`l`b`X`H`Y`g]g`6`]g`h`c`Y`b`g`i`f`Y`g`h`i`X`Y`b`h`g`g`h`U`m`c`b`f`U`W`_`k`]h`h`Y`]f`dfc`Y`W`g`
U`b`X`d`f`c`Y`W`h`k`cf`_`U`g`h`Y`m`d`f`c`[`f`Y`g`g`h`f`ci` [`h`Y`m`Y`U`f`"

%` Dfc`[`f`Y`g`g`i`d`X`U`h`Y`-`U`Zc`fa`c`b`a`c`c`X`Y`k`Y`f`Y`m`c`i`i`d`X`U`h`Y`m`c`i`f`dfc`[`f`Y`g`g`z`U`b`X`h`U`_`U`V`c`i`h`U`b`m`
c`V`g`h`U`W`Y`g`c`f`V`X`U`b`[`Y`g`h`c`m`c`i`f`c`f]`[`]b`U`d`U`b`"
&"`G`Y`a`]b`U`f`D`f`Y`g`Y`b`h`U`h]cb`-`H`Y`g`Y`a`]b`U`f`g`l`ci`X`]b`W`i`X`Y`c`j`Y`f`U`U`]a`c`Z`d`f`c`Y`W`z`]b`h`Y`b`X`Y`X`c`i`h`Wc`a`Y`g`z`U`
d`f`c`[`f`Y`g`g`f`Y`d`c`f`h]b`W`i`X]b[`U`X`Y`h]j`Y`X`a`Y`h`c`X`c`c`[`n`z`U`b`X`d`f`Y`]a`]b`U`f`m`f`Y`g`i`h`g`"
'`" `Dfc`[`f`Y`g`g`f`Y`d`c`f`h`-`h`]g`g`l`ci`X`Wc`a`df]gY`U`h`Y`g]g`h`U`V`Y`c`Z`Wc`b`h`Y`b`h]g`c`i`h]b]b[`h`Y`g`h`f`i`W`i`f`Y`c`Z`h`Y`
h`Y`g]g`"5`&!)`dU[Y`g`i`a`a`U`f`m`c`b`[`c`U`g`U`b`X`h`U`g`_`U`W`Wc`a`d`]g`Y`X`U`b`X`Z`h`i`f`Y`k`cf`_`"

H\Yg]g`7. `H`Y`g]g`7`Wc`b]h]bi`Y`g`h`Y`d`f`c`Y`W`h`k`cf`_`"H`Y`_`Y`m`X`Y`]j`Y`f`U`V`Y`]g`h`Y`k`f]h`Y`b`f`Y`d`c`f`h`
H`Y`Zc`c`k`]b[`Wc`i`f`g`Y`U`gg`Y`g`g`a`Y`bh`g`f`Y`U`h`h`c`h`Y`g`h`i`X`Y`b`h`g`f`Y`g`Y`U`f`W`d`U`b]b[`z`Wc`b`X`i`W`i]b[`h`Y`f`Y`g`Y`U`f`W`
d`f`c`Y`W`h`U`b`X`k`f]h]b[`h`Y`h`Y`g]g`X`c`W`a`Y`b`h`z`U`b`X`X]g`g`Y`a`]b`U`h]b[`h`Y`f`Y`g`i`h`g`]b`X]Z`Y`f`Y`b`h]Zc`fa`g`"

%` D`U`f`h]j`d`U`h]cb`-`U`gg`Y`g`g`Y`g`h`Y`g`h`i`X`Y`b`h`g`Wc`a`a`]h`a`Y`bh`U`b`X`Y`b[`U[`Y`a`Y`bh`h`c`h`Y`d`f`c`Y`W`h`U`gg`Y`g`g`Y`X`V`m`
h`Y`g`i`d`Y`f`j`g`c`f`!`g`Y`Y`d`U`f`h]j`d`U`h]cb`W`i]h`f]U`X`c`W`a`Y`b`h`f`f`5`gg`Y`g`g`Y`X`c`j`Y`f`H`Y`g]g`5`z`6`U`b`X`7`k`
&"`:]b`U`f`Y`d`c`f`h`-`h`Y`Z]b`U`h`Y`g]g`X`c`W`a`Y`bh`f`H`Y`g]g`7`k`
'`" `8]g`g`Y`a`]b`U`h]cb`c`Zk`cf`_`-`G`h`i`X`Y`b`h`g`k`]`d`U`f`h]j`d`U`h`Y`]b`U`b`c`b`]b`Y`" `!`a`]b`i`h`Y`h`Y`g]g`d`f`Y`g`Y`b`h]h]cb`
d`f`Y`g`Y`b`h]b[`h`Y`]f`k`cf`_`f`H`Y`g]g`7`k`

5`h`U`V`Y`k`]h`U`b`c`j`Y`f`j`Y`k`c`Z`h`Y`X`Y`]j`Y`f`U`V`Y`g`]g`d`f`c`j`]X`Y`X`]b`h`Y`7`c`i`f`g`Y`c`i`h]b`Y`Zc`f`G`C`@5`()-`%#`(-)`%

f`:`cf`U`b`m`g`h`i`X`Y`b`h`k`U`b`h]b[`hc`Wc`a`d`Y`h`H`Y`g]g`6`U`b`X`7`Wc`b`W`f`f`Y`b`h`m`z`U`X`X]h]cb`U`U`gg`Y`g`g`a`Y`bh`W`i]h`f]U`k`]`
V`Y`d`i`h]b`d`U`W`" `h`k`]`V`Y`Y`i`d`Y`W`X`h`U`h`U`b`m`g`h`i`X`Y`b`h`f`Y`e`i`Y`g`h]b[`h`]g`k`]`V`Y`U`h`h`Y`g`h]U[Y`c`Z`g`i`Va`]h]b[`%"`
h`Y`i]h`f`U`h`f`Y`f`Y`j`Y`k`k`]h`d`f`Y`]a`]b`U`f`m`f`Y`g`i`h`g`]b`W`i`X`Y`X`"H`Y`m`a`i`g`h`V`Y`U`h`U`8`B`"Y`j`Y`Zc`f`U`U`g`d`Y`W`g`h`c`V`Y`
U`c`k`Y`X`h`c`a`c`j`Y`h`c`Z]b]g`l]b[`]b`h`k`c`h`Y`f`a`g`"&"h`Y`d`f`c`[`f`Y`g`g`f`Y`d`c`f`h]X`c`W`a`Y`b`h`k`]`V`Y`X`i`Y`k`Y`Y`_`" `c`Z`h`Y`f`a`&`
c`Z`h`Y`g]g`z`]Z`b`c`h`U`h`U`8`B`"Y`j`Y`h`Y`g`h`i`X`Y`b`h`k`]`U`j`Y`h`c`[`c`V`U`W`_`X`c`k`b`h`c`h`Y`g]g`6`c`b`m`

5ggYgga YbhUg_	K Y][\h	8i Y'8UH	7ci fgY'@YUfb]b[Ci hWca Yg'5ggYggYX
%"H\Yg]g'dfc'YWhUbX'fYdcfh	* \$i	&&#\$(#&\$&&%&.\$\$.DA	%ž&ž' ž(ž)
&"J]XYc'DfYgYbhU]cb) i	&&#\$(#&\$&&\$.)\$.DA)
' "DUfh]dU]cb'A Uf_	%\$i	Bch5dd']WUVY	%ž&ž' ž(ž)

5ggYgga Ybh% 'H\Yg]g'dfc'YWhUbX'fYdcfh

5ggYgga Ybh`Yb[h. 'Bc'a cfY'hUb', \$'dU[Yg
 Gi Va]gg]cb'bcH'g. Gi Va]hrc'Vch'hY'Hi fb]h]b'Ugg][ba YbhUbX'hY' [fUX]b['Zcf'hYg]g'gYW]cb
 8i Y'XUH. '&&#\$(#&\$&&%&.\$\$.DA
 8YUX']bY'Zcf'UVgc'i h'ZU]. ') 'XUm]UZh'f'hY'Xi Y'XUH

H\Yg]g'7 'Wcb]bi Yg'hY'dfc'YWh'cf_"H\Y'_YmXY'] YfUV'Y]g'hY'K f]hYb'F Ydcfh

H\Y'Zc`ck]b['Wci fgY'UggYgga Ybh'g'fY'UH'rc'hY'gh'XYbh'g'fYgYUfW' d'Ubb]b[ž'WcbXi W]b['hY'fYgYUfW
 dfc'YWhUbX'k f]h]b['hY'hYg]g'XcW'a Ybž'UbX'X]ggYa]bU]b['hY'fYgi 'hg]b'X]ZYfYbhZcfa'g"

H\]g'Ugg][ba Ybh]g'gi Va]hYX'h'fci [\ 'Hi fb]h]b'UbX'gh'XYbh'Wb'gYY'Hi fb]h]b'gja]'Uf]mifYdcfhg"

5ggYgga YbhW]h'f]U

Gh XYbh'g'a i ghgi Va]hUb'Y'YWfcb]W'W'c'mcb'mj]U'h fb!]h]b'cb'A ccX'Y'5B8]b'hY'hYg]g'a Uf_]b[
 gYW]cb'Vm%&da'fa]XXUm'c: f]XUm&&bX'5df]"9j Yb'k \YfY'U'gh'XYbh\Ug'VYYb'UZYW'X'VmUb']`bYgg'cf
 a]gUXj Ybh'fYž'hYmia i ghgi Va]h'Ug'a i W'cZ'hY]f'hYg]g'Ug'dcgg]V'Yž'UbX'hYb`cX[Y'U'F'Yei YghZcf
 GdYW]U'7cbg]XYfU]cb'h'fci [\ 'I' BGK 'Gh XYbh'7YbfU'"Gh XYbh'g'k \c'Xc'bc'hgi Va]h'Vm'hY'XYUX']bY
 k]`VY'dYbU']gYX'"5b'Yi h'bg]cb'cZ'h'a Y'a Umcb'mVY[fUb'hY'X'UZ'h'f'fYW]d'hcZU'F'Yei YghZcf'GdYW]U'
 7cbg]XYfU]cb'ž'k]h'W'bg]XYfU]cb'cZ'hY']bW'ca d'Y'h'hYg]g'UbX'cb'mi bXYf'Yi W'd]cbU'
 W]fW'a g]hUbW]g'VYrcbX'hY'gh'XYbh'g'W'c'b'f'c`": cf'Z'f'hY'f'XYh]g'd'YUg'g'Y'Y'hY'gYW]cb'VY'ck'h]hYX
 'H\Yg]g'k]h'XfUk Už'Gi gdYbg]cb'ž'UbX'H]a Y'9i h'bg]cb"

; i]XUbW'Zcf'k f]h]b['hY'hYg]g'ž'UbX'hY'gdYW]Z'W]h]cbg'Zcf']g'dfYgYbhU]cb'k]`VY'dcghY'cb'A ccX'Y'"9UW
 gh'XYbh]g'Yi dYW'X'rc'gi Va]h'hY]f'ck b]bX]]Xi U'hYg]g'"H\Y'hYg]g'a i ghVY'U'gh'UbXU'cbY'd]YW'cZk'cf_ž
 k \YfY'Yj Yb']Zgh'XYbh'g'\Uj'Y'k'cf_YX']b'U[fci d']ha i ghVY'UV'Y'rc'VY'j]Yk'YX'Ug'Ub']bX]]Xi U'd]YW'cZ
 k'cf_'cb']h]g'ck b"

5XX]h]cbU'XYh]g

H\Y'a Uf_]b['W]h'f]U']g'Uj'U]UV'Y'cb'a ccX'Y

5ggYgga Ybh&'J]XYc'DfYgYbhU]cb

5ggYgga Ybh`Yb[h. ' 'a]bi h'g
 Gi Va]gg]cb'bcH'g. Gi Va]hrc'hY'J'c]W'h'fYUX'DfYgYbhU]cbg'i bXYf'5ggYgga YbhZcf'H\Yg]g'Gi Va]gg]cbg
 GYW]cb
 8i Y'XUH. '&&#\$(#&\$&&\$.)\$.DA

8YUX]bY Zcf'UVgc'i hY ZU].') XUmj UZyf'Xi Y'XUHY

5hYbXUbW`F`YeI`]fYa`YbHg

7ci`fgY`GW`YXi`Y

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

Mci f'gi dYfj]gcf'k]`dfcj]XY`UWfWgg'hc`hY`fYgci fWg'mci`'bYYX"

F YWca a YbXYX`F Ygci fWg

- GHUfhk cf_`cb'mci f'hcd]WUg'gccb'Ug'mci`'Wb" `H\]g'k]`[]j Y'mci`'d`YbhmCZ]ja Y`hc`'UXXfYgg`dfcV`Ya g'hUhmci`'a UmYbWci`'bHf'cb`hY`k Um'
- D`Ub`hY`dfc[fYgg'cZmci f'hYg]g'i g]b[žZcf'YI Ua d`YžU; 5BBH`WUfř`UbX`fYj]gY`hY`d`Ub`Ug`]h`dfcWfYXg"
- GHUfhVmdYfZcfa]b[`U`fYj]Yk`cZ`hY`Uj U]`UV`Y`"]fYfUh fY`cb`fYgYUfW`Wca d`YhX`]b`hY`gUa Y`UfYU`Ug'mci f'dfc`YW`H\]g'k]`\Y`d'mci`'Z`f'hY`f`XYZ]bY'mci f'hcd]WUbx`hY`X]fYW]cb'mci f'hYg]g'k]`hU`Y"
- C fXYf'a UHf]U`g`Ug'gccb'Ug'mci`'UfY`gi fY`k` \Uhmci`'bYYX"
- 7` V@afW]g`V]V`]c[fUd\]WgcZk UfY`hU`hU`ck`g'mci`'hc`a`UbU[Y'mci`'f`fYZYfYbWg`]b`U`XU`hU`VUgY"

.....UbXžcZWci fgYžXfi ['hf]U'gžVcXmihggi Yg'UbX'c'hYf'a YX]W'UWij]hYg"

5`gcždfc^Wg]bj c'j]b['Ub]a U'g'k]''bYYX'Yh]Wg'Uddfcj U"

⇒mci f'dfc^W'hXcYg'fYei]fY'Uddfcj U'ž]b'hY'Z]fghi]bghUbWžX]gW gg'h]g'k]h'mci f'Gi dYfj]gcf"

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

I BGK `Ug`Ub`cb[c]b[`Wca a]ha Ybhlc`ZcghYf]b[`U`W`hi fY`cZ`YUfb]b[`]bZcfa YX`VmiUWUXYa]W]bhY[f]m`5`
I BGK `gh`XYbhg`Uj`Y`U`fYgdcbg]V`]mhc`UX`YfY`hc`h`g`df]bW]d`Y`cZUWUXYa]W]bhY[f]m`D`U[]Uf]ga
i bXYfa]bYg`UWUXYa]W]bhY[f]m]UbX`]g`bchlc`YfUHX`Uhl`BGK`"B`SY[Sde_`SfG@E|`[e VWX` VW`Se ge[`Y`
fZWi`ad/e`ad[VWSe`aXafZW`S`V`bSee[`Y`fZW_`aXSe`kagdai`ž`

D`U[]Uf]ga`]g`U`hmd`Y`cZ]bhY`YW`i`U`h`YZ`h`#`hW]b`hU`_`Y`a`UbmiZcfa`gž`Zca`XY`]VYfUHX`WX`YU]b[`hc`UWUXYbH`m`
W`dm]b[`Zca`U`gci`fW`k`]h`ci`hUW`bck`YX[`Ya`Ybh`I`BGK` `Ug`dfcXi`WX`U`k`YVg]h`k`]h`U`k`YU`h`cZ`
fYgci`fW`g`hc`gi`ddcfhgh`XYbhg`hc`i`bXYfgHbX`UbX`Uj`c]X`d`U[]Uf]ga`ž`j`]h`[gh`XYbh`i`bgk`"YXi`"Ui`#`d`U\[\]Uf\]ga`"](#)
H`Y`@`YUfb]b[`7`YbhY`Ugg]gh`gh`XYbhg`k`]h`i`bXYfgHbX]b[`UWUXYa]W]bhY[f]m]UbX`ck`bchlc`d`U[]Uf]gY`
H`Y`mi`U`gc`lc`X`k`cf`g`cdg`UbX`W]b`Y`d`gh`XYbhg`cbY!`cb!`cbY`"

Mci`U`fY`U`gc`fYa`]bXYX`h`UhWfYZ`h`ja`Y`a`UbU[`Ya`Ybh]g`Ub`ja`dcfHbhdUfhcZgh`XmiUbX`cbY`cZ`h`Y`
]XYbh]Z`YX`W]i`gYg`cZ`d`U[]Uf]ga`]g`d`ccf`h`ja`Y`a`UbU[`Ya`Ybh`G`h`XYbhg`g`lci`X`U`ck`gi`Z`W]Ybh]ja`Y`Z`c`f`
fYgYUfW`X`Z`X`fU`Z]b[`UbX`h`Y`dfcdYf`fY`Z`fY`bW]b[`cZ`gci`fW`g`]b`dfY`dUf]b[`U`UggYgga`Ybh]Ug`g`"

ž`d`U[]Uf]ga`]g`Zci`bX`]b`mci`f`k`cf`_`k`Y`b`mci`U`fY`]b`Z`fghmY`Ufž`mci`f`YW`h`fYf`k`]`c`Z`Y`f`mci`Ugg]ghU`bW`hc`
]a`dfcj`Y`mci`f`UWUXYa]Wg_]`g`"H`Y`ma`Um]Ug`_`mci`hc`cc`_`Uhgca`Y`cb`]bY`fYgci`fW`gž`U`h`Y`bX`h`Y`@`YUfb]b[`
7`YbhY`ž`cf`gca`Y`h`ja`Yg`fYgi`Va`]h`mci`f`k`cf`_`k`]h`h`Y`dfcV`Ya`Z]`YX`"<`ck`Yj`Yf`a`cfY`gYf]ci`g`]bgHbW`g`]b`Z`fgh`
mY`Ufž`gi`W`Ug`ghY`U`]b[`UbchYf`gh`XYbhg`k`cf`_`cf`dUm]b[`gca`YcbY`hc`Xc`mci`f`k`cf`_`ž`a`UmVY`]bj`Ygh[`U`h`X`fY`gYf]ci`g`]

5 WUXYa]W<Zcfa Uh]cb

7ci fgY'9j U'i Uh]cb 'UbX'8Yj Y'cda Ybhi

: YYXVUW_`cb`h`Y`W`i fgY`]g`[U`h`Y`f`Y`X`d`Y`f`c`X`]W`i`mi`g`b`[`j`U`f`c`i`g`a`Y`U`b`g`z`]b`W`i`X`]b`[`h`Y`i`B`G`K`
a`m`9`l`d`Y`f`]Y`b`W`i`d`f`c`W`g`g`z`]b`Z`c`f`a`U`X`]g`W`g`g`]c`b`]b`h`Y`Z`b`U`W`U`g`g`Z`c`f`h`Y`W`i`f`g`Y`z`U`b`X`h`Y`G`W`c`c`"g`
G`h`i`X`Y`b`h`G`H`J`Z`a`Y`Y`h`b`[`g`"M`c`i`f`Z`Y`X`V`U`W`_`]g`h`U`_`Y`b`g`Y`f`]c`i`g`n`z`U`b`X`W`c`b`h`b`i`U`"j`a`d`f`c`j`Y`a`Y`b`h`g`U`f`Y`a`U`X`Y`h`c`h`Y`
W`i`f`g`Y`V`U`g`Y`X`z`]b`d`U`f`h`z`c`b`g`i`W`X`Z`Y`X`V`U`W`_`"

5`"gh`i`X`Y`b`h`g`U`f`Y`Y`i`d`Y`W`W`X`h`c`f`Y`U`X`U`b`X`V`Y`Z`J`a`"]U`f`k`]h`i`B`G`K`"i`]X`Y`]b`Y`g`U`b`X`d`c`]W`g`"b`d`U`f`h`W`U`f`z`
gh`i`X`Y`b`h`g`g`l`c`i`X`V`Y`Z`J`a`"]U`f`k`]h`h`Y`Z`c`k`]b`[`.

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7 F ⇒ C G

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5 W _ b c k `Y X [Y a Y b h i c Z 7 c i b h f m

K`Y`U`W`_`b`c`k`Y`X`[`Y`h`Y`6`Y`X`Y`[`U`d`Y`c`d`Y`k`l`c`U`f`Y`h`Y`f`U`X`]h`c`b`U`W`g`h`c`X`]U`b`g`c`Z`h`Y`"U`b`X`g`c`b`k`l`]W`i`B`G`K`
?`Y`b`g`]b`[`h`c`b`W`J`a`d`i`g`]g`c`W`U`h`Y`X`"

5ddYbX|l . '9b[]bYYfg'5i ghfU`U'f95E'DfcZYgg]cbU`'9b[]bYYf'7ca dYhYbWm
 GHUbXUfX

Dfc[fUa 'hYbXYX'@YUfb]b['Ci hWta Yg	
? bck `YX[Y'UbX'g_]`VUgY	
D9%"%7 ca dfY\Ybg]j YzhYcfmVUgYX'i bXYfghUbX]b['cZhY'i bXYfd]bb]b['bUh fU`UbX d\mg]WU`gWYbWg'UbX'hY'Yb[]bYYf]b['Z bXUa YbH'g'Udd']WUV'Y'hc'hY'Yb[]bYYf]b['X]gWd`]bY	
D9%"&'7 cbWdh U`i bXYfghUbX]b['cZhY'a UhYa Uh]Wg'z'bi a Yf]WU`UbU'mg]g'ghUhg]Wg'z'UbX Wta di h'f'UbX']bZ'fa Uh]cb'gWYbWg'k \]W' i bXYfd]b'hY'Yb[]bYYf]b['X]gWd`]bY	
D9%" " 'h!XYdh'i bXYfghUbX]b['cZgdYWU]g'hVcX]Yg'cZ_bck `YX[Y'k]h]b'hY'Yb[]bYYf]b[X]gWd`]bY	
D9%"('8]gWfba YbhcZ_bck `YX[Y'XYj Y`cda YbhUbX'fYgYUfW'X]fYW]cbg'k]h]b'hY Yb[]bYYf]b['X]gWd`]bY	
D9%") ? bck `YX[Y'cZYb[]bYYf]b['XYg][b'dfUW]W'UbX'WcbhYi h U`ZUW'c'fg]a dUW]b['hY Yb[]bYYf]b['X]gWd`]bY	
D9%"* 'i bXYfghUbX]b['cZhY'gW'cdY'z'df]bW]d'Yg'z'bcfa g'z'UW'W'ci bHUV]']h]Yg'UbX'Vci bXg'cZ gi gh]bUV'Y'Yb[]bYYf]b['dfUW]W']b'hY'gdYW]ZWX]gWd`]bY	
9b[]bYYf]b['Udd']WU]h]cb'UV']]m	
D9%"%5dd`]WU]h]cb'cZYghUV]g\YX'Yb[]bYYf]b['a Yh'cXg'hc'Wta d'Yi'Yb[]bYYf]b['dfcV'Ya gc']b[
D9%"&'&'i YbhUdd']WU]h]cb'cZYb[]bYYf]b['h'W]b]ei Yg'z'hc'g'UbX'fYgci fW'g	
D9%" " '5dd`]WU]h]cb'cZgmg]Ya Uh]WYb[]bYYf]b['gmb'hYg]g'UbX'XYg][b'dfcW'ggYg	
D9%"('5dd`]WU]h]cb'cZgmg]Ya Uh]WUdd'fcUW'Yg'hc'hY'W'cbXi W'h]UbX'a UbU[Ya YbhcZYb[]bYYf]b[dfc'YW'g	
DfcZYgg]cbU`UbX'dYfgcbU`Uhf]Vi hYg	
D9' "%9h]WU`W'cbXi W'h]UbX'dfcZYgg]cbU`UW'W'ci bHUV']]m	
D9' "&'9ZYW]j Y'cfU`UbX'k f]hYb'Wta a i b]WU]h]cb']b'dfcZYgg]cbU`UbX`UmXca U]bg	
D9' " '7fYUh]j Y'z']bbcj Uh]j Y'UbX'dfc!UW]j Y'XYa YUbcif	
D9' "('DfcZYgg]cbU`i gY'UbX'a UbU[Ya YbhcZ]bZ'fa Uh]cb	
D9' ") 'C'fXYf'ma UbU[Ya YbhcZgY'z'UbX'dfcZYgg]cbU`W'cbXi W'h	
D9' "*" '9ZYW]j Y'hYUa 'a Ya VYfg\]d'UbX'hYUa ``YUXYfg\]d	