



LING5006

7 i ffYbh=ggi Yg`]b`6`]]b[i U`]ga

GYa YghYf`C bY`#`&\$%

7ci fgY`Cj Yfj]Yk

`GHUZZ7cbhUWhi8YHU]`g`

`7cbj Ybcfg`

B Ua Y	9a U]`	5j U]UV]]]m	@cWUhc b	D\cbY
5b]_I` < Uhcgg	U"\Uhcgg4 i bgk "YXi "Ui	H\i fgXUmj`%' da	A cfj Yb`6fck b &&\$	\$&'- ' ,) , ' (\$

GWxcc``7cbhUWhi`bZcfa Uh]cb

GWxcc``cZ<i a Ub]h]Yg`UbX`@Jb[i U[Yg

@cWUhc b. `GWxcc``C Z]WZ`A cfj Yb`6fck b`6i]X]b[ž`@Yj Y``&ž&),

C dYb]b[`<ci fg.`A cbXUm! : f]XUmž`- Ua `!(.() da

D\cbY. `ž`*%&'- ' ,) `)%*, %

: U! . ž`*%&'- ' ,) ; , +\$)

9a U]: [\U`4 i bgk "YXi "Ui](#)

5hYbXUbW`F Yei]fYa Ybhg

5`ghi XYbh]g`YI dYW`X`hc`U`hYbX`U``WUgg`W`b`hUWh`lci fg`Zcf`U`ZUW`!hc!ZUW`fl &: E`cf`V`Yb`XYX`W`ci fgY`UbX`W`ca`d`Y`h`U``U`W`j]`h]Yg`Zcf`U`V`Yb`XYX`cf`Z`m`cb`]bY`W`ci fgY"

5`ghi XYbhk` \c`Uff]j`Yg`a`cfY`h`Ub`%)`a`]bi`hYg`U`hY`a`UmVY`dYbU`]gYX`Zcf`bcb!`U`hYbXUbW``Zgi`W`U`dYbU`h`m`]g`]a`d`cgYXž`hY`gh`XYbhia`i`ghVY`]b`Zcfa`YX`j`YfVU`m`Uh`hY`YbX`c`Z`WUgg`UbX`UXj`]gYX`]b`k`f]h]b[`k`]h]b`&(`\ci fg"

zU`ghi XYbhYI`dYf]YbW`g`]`bYggž`a`]gUXj`Ybh`fY`cf`chYf`cW`ffYbW`h`Uha`U`Yg`UVgYbW`Zca`U`WUgg#UW]j`]mi`bUj`c]XUV`Yž`cf`YI`dYW`g`hc`VY`UVgYbhZca`U`Zc`f`h`W`ca`]b[`WUgg#UW]j`]mž`h`Ymg`lci`X`g`YY`dYfa`]gg]cb`Zca`h`Y`7`ci`fgY`5i`h`cf]mž`UbX`k`Y`fY`Udd`]WU`Yž`hY]f`fYei`Yghg`lci`X`VY`UW`ca`dUb]YX`VmUb`cf][`]bU`cf`W`f]h]YX`W`dmcZU`a`YX]W`W`f]h]W`hY`cf`chYf`Zca`cZUddfcdf]U`hY`Yj`]XYbW"

5`7ci fgY`5i`h`cf]ma`UmYI`W`gY`U`ghi`XYbhZca`WUggYg`cf`UW]j`]h]Yg`Zcf`i`d`hc`cbY`a`cbh`<`ck`Yj`Yfž`h`Ym`a`UmUgg][`b`UXX]h]cbU`UbX`#`f`U`hYfbUh]`Y`hUg`g`hc`Ybgi`fY`W`ca`d`]UbW``5`7ci fgY`5i`h`cf]m]W`bg]XYf]b[`hY`[`fUbh]b[`cZUVgYbW`a`i`ghVY`gUh]gZ]YX`U`ghi`XYbhk`]`g]`VY`UV`Y`hc`a`YYh`hY`W`ci`fgY`g`YUfb]b[`ci`h`W`ca`Yg`UbX`#`f`j`ci`a`Y`cZ`YUfb]b[``5`ghi`XYbhgYY_]b[`Uddfcj`U`hc`VY`UVgYbhZca`cfY`h`Ub`cbY`a`cbh`a`i`ghUdd`m`]b`k`f]h]b[`hc`hY`8Y`Ub`UbX`dfcj`]XY`U``cf][`]bU`cf`W`f]h]YX`gi`ddcf]b[`XcW`a`Yb]h]cb"

:`cf`a`cfY`]b`Zcfa`Uh]cb`UVci`h`hY`U`hYbXUbW`dfc`hc`W`g`]b`hY: `UW`h`mcZ5`f]g`UbX`GcV]U`GWYbW`g. [\hfdg.##k`k`"Uf\]g`i`bgk`"YXi`"Ui`#W`ffYbh\]gh`XYbhg#UW\]Y`a`\]W\]b`Zcfa`Uh\]cb`#f`c`h`W`g!`\[`i`\]XY`\]bYg#](#)

5WUXYa]W`bZcfa Uh]cb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[`hc. `fYei Yghg`Zcf`YI hYbg]cb/fYj]Yk `cZa Uf_g/cVW dUh]cbU`\\YU`h
UbX`gUZ`m/YI Ua]bUh]cb`dfcW`Xi fYg/gdYW]U`Wcbg]XYfUh]cb`]b`h`Y`Yj Ybhcz]`bYgg`cf`a]gUXj Ybh fY/
ghi XYbhYei]mUbX`X]gUV]`]m`UbX`ch`Yf`YggYbh]U`UWXYa]W]bZcfa Uh]cbž
gYY`\frdg.#k k"Ufrg"i bkg "YXi "Ui #W ffYbh]ghi XYbhg#JWUXYa]W]bZcfa Uh]cb#dfc`cWc`gl`i]XY`]bYg#

7 ci fgY'8YHJ`g

7 fYX]hDc]bhtg '*`

Gi a a UfmicZ`h`Y'7 ci fgY

H\]g`Wci fgY`k]`YbUV`Y`mci `hc`]bj Ygh[UH`h`Y`bUhi fY`cZV`]b[i U]ga `VmiZc`W`g]b[`cb`\ck`]hYj`c]j`Yg`UbX
\ck`]h]g`a`U]b]h]b]YX`]b`Ub`]b]W]Y]U]g]b[`m[`cVU`]g]YX`k`c`f`X" `#k]`YbUV`Y`mci `hc`i`bXYfg]h]b]X`h]U]h]V`]b[i U]ga
W]b`VY`gh`X]YX`U]h]U]b`]b]X]j`]Xi`U`Y]j`Y`f]Zc`W`g]b[`cb`dgm`W`c`]b[i]gh]V]b]Yi`fc`]b[i]gh]V]UbX`Wc`]b]h]j`Y
UgdY`W]g]t]z]Vi`h]U]gc`U]h]U]gc]W]Y]h]U`Y]j`Y`f]Zc`W`g]b[`cb`gc]W]c`c`]W]z`]b]h]f]W`h]i`f]U]z]UbX`]X]Yc`c`]W]U`Xca`U]b]g]t`
Mci`k`]`U]j`Y`h`Y`c]d]d]c]f]h]b]h]m]t`Y]l`d`c`f`Y`U`f]U]b[`Y`c]Z]h]c]d]W]g]k`]h]b`h`Y`gh`X]m]c]Z]V`]b[i U]ga`z`]b]W]i`X]b[.`ck
Wc]a`a`i`b]h]Y]g`UbX`]b]X]j`]Xi`U]g`a`U`Y`U]b[i U[`Y`W]c]W]g]z`\ck`V`]b[i U]ga`X]Y]j`Y`c]d]g`h`Y`V]f]U]b]z`h`Y
U]X]j`Ub]h]U[`Y]g`c]Z]V`]b[i U]ga`Zc`f`W]X]X]f]Y]b]h]g]X]Y]j`Y`c]d]a`Y]b]h]z]UbX`h`Y`gc]W]U`V]Y]b]Y]Z]h]g]c]Z]g]i`d]d]c]f]h]b[`a`]b]c]f]h]m
`Ub[i U[`Y]g"``

5 h`h`Y`Wc]b]W]i`g]c]b`c]Z`h]g]Wc]i`fgY`h`Y`gh`X]Y]b]h]k`]`V]Y`U]V`Y`hc

%`9]l`d`U]b`V]U]g]W]Wc]b]W]d]h]i`U`UbX`Ya`d]f]W]U`]g]g]i`Y]g`]b`h`Y`gh`X]m]c]Z]V`]b[i U]ga`"
&`7`f]h]W]U`m]Y]j`U]i`U]h`W`f]f]Y]b]h]U]X]j`Ub]V]W]g`]b`h`Y`gh`X]m]c]Z]V`]b[i U]ga`k`]h`d]U]f]h]W`U]f]f]Y]Z]f]Y]b]W]`hc
`]b[i]gh]V]g]c]W]c`]b[i]gh]V]UbX`dgm`W`c`]b[i]gh]W]U]gd]Y`W]g`"
'`5`g]g]Y]g]g]W`f]f]Y]b]h]g]g]i`Y]g`]b`h`Y`Ub]U]m]g]g]c]Z]V`]b[i U`X]Y]j`Y`c]d]a`Y]b]h`
(`8`Y]Z]f]b]X`c`f`W]U`Y]b[`Y`U]b[i U[`Y`d]c`]W]Y]g`c]b`V`]b[i U`X]Y]j`Y`c]d]a`Y]b]h`

HYUW]b[`G]h]f]U]h]Y[]Y]g`

7`U]gg]Y]g`k`]`h]U]_`Y`U`k`c]f`_`g`\`c]d`Zc]fa`U]h`K`\]Y`h`Y]f]Y`k`]`V]Y`g]c]a`Y`g`\`c]f]h]b]h]f]c]X]i`W]h]c]b]g`hc`h`Y`h`Y`c]f]Y]g`]b`U
`Y]W]i`f]Y`Zc]fa`U]h]z`a`c]g]h]h]a`Y`k`]`V]Y`g]d]Y]b]h]c]b`]b]h]f]U]W]h]j`Y`[`f]c]i`d`X]g]W]g]g]c]b]g`Wc]b]g]X]Y]f]b[`_]Y]m]Wc]b]W]d]h]g]z`]g]g]i`Y]g
UbX`d]f]c]V`Ya`g`G]h]X]Y]b]h]k`]`V]Y`Y]l`d]Y]W]h]X`hc`Xc`g]Y]h]f]Y]U]X]b[`h]U]g`_`k`Y]Y`_`m]UbX`Xc`U`%`\$`a`]b]i`h`W]U]g]g
d]f]Y]g]Y]b]h]U]h]c]b"``

5ggYgga Ybh

5ggYgga YbhHUg_g`

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
7`Ugg`hYgh`	' \$i	%* #\$(#&\$% '\$' .\$\$'DA	%
DfYgYbhUj]cb`	&\$i	WUgg`fcghYf	' ž(
F YgYUfW`YggUm) \$i	\$(#* #&\$% '\$) .\$\$'DA	&ž ž(

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh%`7`Ugg`hYgh`

GHUfhXUH. %* #\$(#&\$% '\$%\$\$'DA

@Yb[h. %\ci f

8YHJ]`g. "HYghf%\f`cb`hcd]Wg`Wcj YfYX`]b`hY`Wci fgY" "bX]j]Xi U`ZYXVUW`k]`VY`dfcj]YX"

5XX]h]cbU`XYHJ]`g.

H\]g`]g`U`a i`h`d`Y`W`c]W`h`ghVUgYX`cb`fY`Yj UbhW`b`h`bhW`cj YfYX`h`h`]g`dc]bh]b`h`Y`W`ci fgY"

Hi fb]h]b`gYH]b[. H\]g`]g`bchU`Hi fb]h]b`Ugg][ba Ybh

5ggYgga Ybh&. `DfYgYbhUj]cb

GHUfhXUH.`

@Yb[h. %\$`a]bi hYg

8YHJ]`g. "5`WUgg`dfYgYbhUj]cb`f%\$`a]bi hYg`VUgYX`cb`gYhYfYUX]b[`g`UbX`h`cd]Wg`Wcj YfYX`]b`h`Y`W`ci fgY" "bX]j]Xi U`ZYXVUW`k]`VY`dfcj]YX"

5XX]h]cbU`XYHJ]`g.

Gh XYbh]g`g][b i d`Z`f`dfYgYbhUj]cb`fcghYf`"Gh XYbh]g`dfYdUfY`U`g`cfhW]h]WU`cj Yfj]Yk`c`Z`h`Y]f`W`cgYb`h`cd]W`

5ggYgga YbhW]hYf]U.

i bXYfghUbX]b[`fY`Yj UbhW`b`W`d`hg`UbX`h`Y`cf]Yg

W]h]W`XYVUH`UbX`fYj]Yk`c`Z`fY`Yj UbhYfYUfW

WUf]micZYI dfYgg]cb`]b`gdc`_Yb`UWXYa]W9b[`]g\

j]gi U`gi ddcfhUbX`Yb[U[Ya Ybhk]h`h`Y`Ui X]YbW

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]h`X`h`fci [\ `Hi fb]h]b`UbX`gh XYbhg`Xc`bchgYY`Hi fb]h]b`g]a]`Uf]mifYdcfhg"

5ggYgga Ybh' .`F YgYUfW`YggUm

GhUfhXUHY.`

@Yb[h. `&\$\$\$`k cfXg

8YhU]`g. `5`fYgYUfW`YggUm]fUddfcl]a UH`m`&\$\$\$`k cfXgE`cb`UbmcZ`h`Y`a U`e`f`h`d]Wg`W`j YfYX`]b`h`Y`W`i fgY" `X]j]Xi U`Z`Y`X`V`U`W`_`k]`V`Y`d`f`c`j]X`Y`X`" `H`]\`g`h`Y`Z`b`U`U`gg`Y`g`g`a`Y`b`h`Z`c`f`U`h`Y`b`X`U`b`W` `d`i`f`d`c`g`Y`g`"

5XX]h]cbU`XYhU]`g.

I gY`5D5`fY`Z`f`Y`b`W]b[`g]m]Y`Z]b]W] XY`a]b]a i a `*`fY`Z`f`Y`b`W]g"

5ggYgga YbhW]h]f]U.

- `Y] Y`c`Z`W]h]W]`X]g]W`g]g]c]b`U`b`X`U`f[i a Yb]h]c]b
- Udd`]W]h]c]b`c`Z`f`Y`Y] Ub]h]W`b]W`d]h]g`U`b`X`h`Y`c`f]Y`g`f]h`f`Y`j]Y`k`E`
- UXXfYgg]b[`Y`U`f]b[`c`i`h`W`a`Y`g`&`Z`' `c`f`(`
- U`W`X`Y`a`]W`k`f]h]b[`f[f]U`a`a`U`f`Z`W`e`Y`g]c]b`U`b`X`W`e`Y`f`Y`b`W]Z`g]m]Y`U`b`X`g]f]i`W]h`f`Y`E`

Gi Va]gg]cb'cZ5ggYgga YbhHUg_g

Gh XYbhg'UFY'YI dYW'WX'hc'di h'kY'f'bUa Yg'UbX'ghi XYbhbi a VYfg'cb'Yj YfmdU[Y'cZ'kY]f'Ugg][ba Ybhg"

Hi fb]h]b'Gi Va]gg]cb

z'mci 'YbW'ci bhY'f'U'dfcV'Ya 'k \Yb'U'HYa dh]b['hc'gi Va]h'mci f'Ugg][ba Ybh'k'fci [\ 'Hi fb]h]b'z'd'YUgY
h'Y'd\cbY'9I h'Y'fbU'Gi ddcf'hc'b'-' ,) ' ' ' %cf'Ya U] 'h'Ya 'cb'[YI h'Y'fbU'f'f'gi ddcf'h4 i bgk "YXi "Ui "](#)Gi ddcf'h
\ci fg'UFY' , .\$Ua '-%\$. \$da 'cb'k YY_XUmg'UbX'-' . \$Ua '-) . \$da 'cb'k YY_YbXg'f'l *) 'XUmg'U'mY'Uf'z' z'mci
UFY'i bUV'Y'hc'gi Va]h'mci f'Ugg][ba Ybh'Xi Y'hc'U'ZU'i 'h'k]h'Hi fb]h]b'mci 'a Um'Udd'm'Zcf'Ub'YI h'Y'bg]cb'z'Vi h'mci
a i gh'f'Y'U]b'mci f'h]W'Y'hbi a VY'f'Z'ca '9I h'Y'fbU'Gi ddcf'h'f'U'cb['k]h'Ub'm'c'h'Y'f'f'Y'Yj Ub'h'X'c'W a Y'b'g'k'hc
]b'W'i XY'Ug'Yj]XY'b'W'hc'gi ddcf'h'mci f'YI h'Y'bg]cb'Udd']W'h]cb" z'mci 'Ya U]'9I h'Y'fbU'Gi ddcf'h'mci 'k]'
Ui 'h'ca Uh]W'U'm'f'Y'W'j Y'U'h]W'Y'hbi a VY'f'z'Vi h]Z'mci 'h'Y'd\cbY'mci 'k]'b'Y'X'hc'gd'Y'W'Z'W'U'm'Ug'_Z'f'cbY"
Hi fb]h]b'U'gc'd'f'c]XY'g'i dXU'h'g'cb'h'Y]f'g'm'g'h'Ya 'g'h'U'h'g'cb'Hk]h'Y'f"

; YbY'f'U'm'z'UggYgga Ybh'f'Ug_g'a i gh'VY'gi Va]h'Y'X'Y'Y'W'f'cb]W'U'm'j]U'Y]h'Y'f'Hi fb]h]b'cf'U'A cc'X'Y
Ugg][ba Ybh'f'f']bg'h'Ub'W'g'k \Y'f'Y'h']g']g'b'ch'd'c'g'g]V'Y'Z'h'k]'VY'g'f'U'h'X'cb'mci f'W'ci fg'Y'g'A cc'X'Y'g]h'Y'k]h'
U'h'f'U'h]j Y'gi Va]gg]cb'XY'U]g"

@UH'5ggYgga YbhDYbU'h]Yg

5b'UggYggYX'hUg_]g'XY'Ya YX'UH']Z]h]g'gi Va]h'Y'X'U'Z'Y'f'h'Y'gd'Y'W'Z'Y'X'h'a Y'Ub'X'X'U'h'U'g'g'Y'h'ci h]b'h'Y
W'ci fgY '@Y'U'fb]b['A UbU[Ya Ybh'G'm'g'h'Ya 'f'@A G'z'

H'Y'UH'Y'd'Y'b'U'm]g'h'Y'c'g'g'cZ) i 'cZ'h'Y'hc'h'U'd'c'g'g]V'Y'a Uf_g'Z'cf'h'Y'f'Ug'_Z'cf'Y'U'W'X'U'm'c'f'd'U'f'h'h'Y'f'Y'c'Z'h'Y
k'cf_]g'UH'Y'@UH'Y'b'Y'gg'k]']b'W'i XY'k YY_Yb'X'g'Ub'X'di V']W'k'c']X'U'mg'"H']g'X'c'Y'g'b'ch'U'dd'm'hc'U'f'Ug_'h'U'h]g
UggYggYX'Vi h'bc'a Uf_]g'U'k U'f'XY'X"

K'cf_]gi Va]h'Y'X'Z'ci f'h'Y'b'f'f'z'X'U'mg'U'Z'Y'f'h'Y'X'i Y'X'U'h'k]'VY'a Uf_Y'X'Ub'X'Z'Y'X'V'U'W'_d'f'c]]XY'X'Vi h'bc'a Uf_
k]'VY'f'Y'W'f'X'Y'X' z'h'Y'k'cf_'k'ci 'X'\U'j Y'f'Y'W'j Y'X'U'd'U'gg'a Uf_'Vi h'Z'cf'h'Y'UH'Y'b'Y'gg'Ub'X'h'Y'k'cf_]g'U
W'ca di 'g'c'f'm'W'ci fgY'W'ca d'cb'Y'b'h'z'U'g'h'XY'b'h'k]'VY'XY'Ya YX'hc'\U'j Y'a Y'h'h'U'h'f'Y'ei]f'Ya Y'b'h'H']g'X'c'Y'g'b'ch
U'dd'm'hc'U'f'Ug_'h'U'h]g'UggYggYX'Vi h'bc'a Uf_]g'U'k U'f'XY'X"

K'cf_]gi Va]h'Y'X'k'Y'b'h'm'cb'Y'f'f'z'X'U'mg'U'Z'Y'f'h'Y'X'i Y'X'U'h'k]'b'ch'VY'U'W'W'd'h'X'Z'cf'a Uf_]b['cf'Z'Y'X'V'U'W_
Ub'X'k]'f'Y'W'j Y'bc'a Uf_'cf[f'U'XY'" z'h'Y'U'ggYgga Ybh'f'Ug_g'U'W'ca di 'g'c'f'm'W'ca d'cb'Y'b'h'c'Z'h'Y'W'ci fgY'U
gh'XY'b'h'k]'Ui 'h'ca Uh]W'U'm'ZU]h'Y'W'ci fgY"

GdY'W'U'7cbg]XY'f'U'h]cb'5dd']W'h]cbg

M'ci 'W'b'U'dd'm'Z'cf'gd'Y'W'U'W'cbg]XY'f'U'h]cb'k \Y'b]'b'Y'gg'c'f'c'h'Y'f'W'f'W a gh'U'b'W'g']bh'f'Z'Y'f'k]h'm'ci f'
UggYgga Ybh'd'Y'f'Z'ca Ub'W'"

G]W'b'Y'gg'z'a]g'U'X'j Y'bh'f'Y'c'f'c'h'Y'f'W'f'W a gh'U'b'W'g'VY'nc'b'X'm'ci f'W'c'bl'f'c''a Um

f'D'f'Y'j Y'bh'm'ci 'Z'ca 'W'ca d'Y'h]b['U'W'ci fgY'f'Y'ei]f'Ya Y'b'h'z'

f'?Y'Y'd'm'ci 'Z'ca 'U'h'Y'b'X]b['Ub'U'ggYggUV'Y'U'W'f'j]m'z'

f'G'h'd'm'ci 'gi Va]h]b['UggYggUV'Y'k'cf_'Z'cf'U'W'ci fgY'z'

f`G][b]Z]W]b]h]m]U]Z]Y]W]h]m]i] f]d]Y]f]Z]c]f]a] U]b]W]W]]b]U]g]g]Y]g]g]U]V]`Y]k] c]f]_]Z]V]Y]]h]U]Z]c]f]a] U]`Y]b]X]!]c]Z]g]Y]a] Y]g]h]f]Y]I] U]a]]b]U]h]c]b]Z]U] W]U]g]g]h]Y]g]h]Z]U]`U]V]c]f]U]h]c]f]m]h]Y]g]h]Z]U]g]Y]a]]b]U]f]d]f]Y]g]Y]b]h]U]h]c]b]c]f]U]b]m]i]c]h]Y]f]Z]c]f]a]]c]Z]U]g]g]Y]g]g]a] Y]b]h]

: c]f]Z] f]h]Y]f]X]Y]h]U]g]]b]f]Y]U]h]c]b]h]c]G]d]Y]W]U]`7]c]b]g]X]Y]f]U]h]c]b]]b]W]i] X]b] []K] \]Y]b]h]c]5]d]d]m]Z]`<]c]k]h]c]5]d]d]m]U]b]X] "G]i]d]d]c]f]h]b] []8]c]W]a] Y]b]h]U]h]c]b]]d]Y]U]g]Y]f]Y]Z]f]h]c]h]Y]G]d]Y]W]U]`7]c]b]g]X]Y]f]U]h]c]b]k]Y]V]g]h]Y].

[\\]h\]c\]g.\]#\]g\]h\]X\]Y\]b\]h\]i\]b\]g\]k\]"Y\]X\]i\]"U\]i\]#\]g\]d\]Y\]W\]U\]!\]W\]c\]b\]g\]X\]Y\]f\]U\]h\]c\]b\]](#)

5 WUXYa]W<c bYghmUbX 'D`U[]Uf]ga

D`U[]Uf]ga]g'i g]b['hY`k cfXg'cf]XYUg'cZchYfg'UbX'dfYgYbh]b['hYa`Ug'mci f'ck b" `hWUb`hU_Y'a Ubm Zcfa gž Zca`XY]VYfUHY`WXYU]b['hc`UWV]XYbhU`mWcdm]b[Zca`U'gci fW`k]hCi hUW_bck`YX[Ya Ybh'

I BGK`[fci dg'd`U[]Uf]ga`]bhc`hY`Zc`ck]b[`WUHY`[cf]Yg.

7cdm]b[.`i g]b['hY`gUa Y`cf'j Yfmg]a]Uf'k cfXg'hc`hY`cf][]bU`hYI hcf]XYU`k]hCi hUW_bck`YX[]b['hY`gci fW`cf'i g]b['ei chU]cb'a Uf_g" `H\g'U'gc`Udd`Yg'hc`ja U[Ygž UfhUbX`XYg][b`dfc`YWgž Ug`k Y`Ug`dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubc`hYf'g`]XYUg'cf'k cfXg`k]hCi hWVYX]h'

hUddfcdf]UHY`dUfUd`fUg]b[.`W\Ub[]b[`U`Zk`k cfXg`UbX`d`fUgYg`k \]Y`a cghm`fYU]b]b['hY`cf][]bU`gfi W`fY`UbX`]bZcfa U]cb`k]hCi hUW_bck`YX[Ya Ybh'`H\g'U'gc`Udd`Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`Ubc`hYf'g`]XYUg'cf'k cfXg`k]hCi hWVYX]h'`hU'gc`Udd`Yg'hc`d`YW]b[`hc`[Y`hYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k \c`Yžk]hCi hfYZ`fYbW]b[`UbX`U`gh`XYbhg`ck b`UbU`mg]g`hc`Vf]b['hY`a`UHYf]U`hc`[Y`hYf`"

7c`i g]cb.`k cf_]b[`k]h`chYfg`Vi hdUgg]b[`cZ`hY`k cf_]Ug`U`dYfgcb`g`]bX]j]Xi`U`k cf_"`7c`i g]cb`U`gc`]bWi XYg'dfcj]X]b[`mci f'k cf_`hc`Ubc`hYf`gh`XYbhVYZc`fY`hY`Xi`Y`XUHY`žcf`Zcf`hY`di fdcgY`cZ`hYa`d`U[]Uf]g]b[`UhUbmi]a Yž`dUm]b[`Ubc`hYf`dYfgcb`hc`dYfZcfa`Ub`UWUXYa`]WUg_ž`ghU`]b[`cf`UW`ei]f]b[`Ubc`hYf`dYfgcb`g`UWUXYa`]Wk cf_`UbX`W`dm]b[`]ž`cZ]f]b[`hc`W`ca`d`YH`Ubc`hYf`dYfgcb`g`k cf_`cf`gYY_]b[`dUma`YbhZc`f`W`ca`d`Y]b[`UWUXYa`]Wk cf_"`

hUddfcdf]UHY`W]U]cb.`7]h]b[`gci fW`g`k \]W\`Uj`Y`bchVYYb`fYUXžk]hCi hUW_bck`YX[]b['hY`"gYW`bXUfm`gci fW`Zca`k \]W\`_bck`YX[Y`cZ`hYa` `Ug`VYYb`c`VU]bYX"

8i`d`]WU]cb`ffgY`Zd`U[]Uf]ga`"E`gi Va`]h]b[`mci f'ck b'k cf_ž]b`k \c`Y`cf`]b`dUfžk \YfY`]h`Ug`dfYj]ci g`m`VYYb`dfYdUfYX`cf`gi Va`]hYX`Zc`f`Ubc`hYf`UggYgga`Ybhcf`W`ei fgY`Uhi BGK`cf`Ubc`hYf`i b]j Yfg]h'

7c`ffY`W`fY`Z`fY`bW]b[`dfUW]W]g.

- DUFUd`fUg]b[žgi`a`a`Uf]g]b[žYggUmk`f]h]b[`UbX`h]a`Y`a`UbU[Ya Ybh
- 5ddfcdf]UHY`i`gY`cZ`UbX`U]f]Vi`h]cb`Zc`f`U`fUb[Y`cZa`UHYf]U`g`]bWi`X]b[`hYI`hž]a`U[Ygž`Zcfa`i`UY`UbX`W`cbW`dtg"

hX]j]Xi`U`Ugg]ghU`bW`]g`Uj`U]UV`Y`cb`fYei`YghZca`h\Y`@YUfb]b[`7YbhY`f`h`d`#k`k`"Wi`bgk`"YXi`"Ui`#`Gh`XYbhg`UfY`U`gc`fYa`]bXYX`h`UhWUfYZ`"h]a`Y`a`UbU[Ya Ybh]g`Ub`ja`dcfU`bhdUf`hcZ`gh`Xm`UbX`cbY`cZ`hY`]XYbh]Z]YX`W]i`gYg`cZ`d`U[]Uf]ga`]g`d`cc`f`h]a`Y`a`UbU[Ya Ybh`Gh`XYbhg`g`lci`X`U`ck`gi`Z]W]Y`bh]h]a`Y`Zc`f`fYgYUfW`ž`X`fU]ž]b[`UbX`d`fcdYf`fY`Z`fY`bW]b[`cZ`gci`fW`g`]b`dfYdUf]b[`U`UggYgga`Ybh]hYa`g"

I BGK`@]VfUfmU`gc`Ug`hY`9@G9`hc`Uj`U]UV`Y`hc`Ugg]ghmci`k`]h`mci`f`gh`XmUhi`BGK`"9@G9`]g`XYg][`bYX`hc`]bhfcXi`W`bYk`gh`XYbhg`hc`gh`Xm]b[`Uhi`BGK`Vi`h]h`WUb`U`gc`VY`U[`fYUhfY`Z]Yg`Yf`Xi`f]b[`mci`f`gh`Xm'

7ca`d`Y]b['hY`9@G9`h`hc]U`UbX`ei`]n`k`]`YbUV`Y`mci`hc.

7 ci fgY`GWXYXi `Y

[J\]Yk`WUgg`hã YhUV`Y](#)

H]a YhUV`Y`

8UH`	Hmd]W	7cbhYbh
K YY_`%`&`*`:`YVfi Ufm!`(` A UfVX	Hcd]W	eggi Yg`cZXYZ]b[`UbX`a Udd]b[`V`]b[i U`]ga `! HYI hVcc_`7`UdhYf`%
K YY_`&.`)`A UfVX`!`%% A UfVX	Hcd]W	eggi Yg`cZa YUgi fYa YbhcZV`]b[i U`]ga `!`HYI hVcc_` 7`UdhYf`&
K YY_`'`.%`&`A UfVX`!`% A UfVX	Hcd]W	C bhc[YbYg]g`cZV`]b[i U`]mi`!`HYI hVcc_`7`UdhYf`'
K YY_`(`.%`A UfVX`!`&` A UfVX	Hcd]W	7c[b]hj`Y`XYj`Y`cda`Ybh!`7c[b]hj`Y`YZY`Wg`cZ V`]b[i U`]ga `!`HYI hVcc_`7`UdhYf`(`
K YY_`.)`.%`*`A UfVX`!`% 5df]`	Hcd]W	eggi Yg`cZ`Ub[i U[Y`i`gY`]b`a`][fU]cb`W`b`h`I`hg`! HYI hVcc_`7`UdhYf`)
6fYU_`&`5df]`!``,`5df]`		
K YY_`*`.`-`5df]`!`%`5df]`	<ca Yk cf_`	H\YfY`UFY`bc`WUggYg`Zc`f`h`]g`k`YY_`"``G`h`XYb`hg` dfYdUFY`Zc`f`h`g`h`
K YY_`+`.`%`*`5df]`!`&`& 5df]`	5ggYgga Ybh	7`Ugg`HYgh
K YY_`,`.`&`5df]`!`&`-` 5df]`	Hcd]W	@Ub[i U[YzW`h`fY`UbX`]XYbh]mi`HYI hVcc_`7`UdhYf`,`
K YY_`-`.`\$`5df]`!`*`A Um	Hcd]W	eggi Yg`cZ`Ub[i U[Y`YbXUb[Yfa`Ybh
K YY_`%\$`.`+`A Um!`% A Um	Hcd]W	eggi Yg`cZ`Ub[i U[Y`W`cgg]b[g.`W`XY!`gk`]hX`]b[`! HYI hVcc_`7`UdhYf`-
K YY_`%%`%(`A Um!`&\$ A Um	Hcd]W	eggi Yg`cZ`Ub[i U[Y`d`Ubb]b[`Zc`f`V`]b[i U` W`a`a`i`b]h]Yg`!`HYI hVcc_`7`UdhYf`%\$
K YY_`%&`.`&%`A Um!`&+` A Um	Hcd]W	eggi Yg`cZV`]b[i U`YXi`WU]cb`!`HYI hVcc_`7`UdhYf`%%
K YY_`%`.`&`,`A Um!`' >i`bY	Hcd]W	Gi`a`a`Ufm

F Ygci fWg

DfYgW]VYX F Ygci fWg

7cdfj[\h5b]_c'<Uhcgg

7F ⇒ CG

7F ⇒ CG'Dfcj]XYf'7cXY.'\$\$\$-, ;