



ARTS3870

8 YVUHg'UbX'7 cbhfcj Yfg]Yg']b'GcW]c`c[mUbX
5b\fc dc`c[m

HYfa `H\fYY`##`&\$%-



GWcc`cZGcWJU`GWYbWg`##`I BGK ``5ffg'UbX'GcWJU`GWYbWg

7ci fgY`Cj Yfj JYk

`GHUZZ7cbhUWhi8YHJ`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj`]m	@cWWhjcb	D\cbY
7`Ui XjU`HUnfY]hYf	WhUnfY]hYf4 i bgk "YXi "Ui	Hi YgXUmj`&!` da	A 6%* &	- ' ,) `` * - %

GWXcc``7cbhUWhi`bZcfa Uhjcb

GWXcc``cZGcWU`GWYbWg

Fcca `%) -

A cfj Yb`6fck b`7 &\$

Ya Uj`.gcgg4 i bgk "YXi "Ui

d\cbY. '\$&-' ,) `)% \$+

7 ci fgY'8YHJ`g

7 fYX]hDc]bHg '*`

Gi a a UfmicZh\Y'7 ci fgY

Gi V\YWh5fYU. 'EaU[a`àYk S` V 3` fZdaba`àYk

H\]g`WldgrcbY`Wci fgY`[]j`Yg`mci`Ub`cddcfh`b]mhc`fYZYWhi`dcb`_YmfYW`bhUbX`WUgg]WU`XYVUH`g`]b`gcW]c`c[m]UbX`Ubh\fc`dc`c[mž`XfUk`]b[`cb`U`fUb[Y`cZ`W`b`h`Ya`dcfUfmigcW]U`dfcV`Ya`g`Ug`W]h]WU`WUgY`gh`X]Yg`" H\Y`Wci fgY`WUbj`UggYg`U`fUb[Y`cZ`dYfgdYW]j`Yg`UbX`dfcV`Ya`g`hc`g`ck`ck`h`Y`XnbUa`]ga`cZ`h`YgY`X]gW]d`]bYg`]g`WYUH`X`h`fci`[\`U`X]j`Yfg]mhcZ`UddfcUW`Yg`" H\Y`Wci fgY`k`]"`]bWc`f`dcfUH`X]gW`gg]cb`Ufci`bX.`h`Y`fY`Uh`cbg`d`VY`k`YYb`h`Y`c`fm]UbX`dfUW]W]`/h`Y`di`fgi`]hcZj`U`i`Yg!VUgYX`gcW]U`gW]YbW]`/di`V`]W`UbX`Wca`a`i`b]mYb[U[Ya`Ybhk`]h`]b`h`Y`gcW]U`gW]YbW]g`/UbX`ž`h`Y`]a`dcffUbW`cZ`h`]b_]b[`UbX`k`cf_]b[`]b`]b`h`fX]gW]d`]bUfmk`Um]g`"

7 ci fgY`@YUfb]b[`Ci hWca Yg

%`F`Y`Wc`[b]nY`gca`Y`_Ym]Wc`b]f`c]j`Yfg]Yg`UbX`XYVUH`g`k`]h`]b`GcW]c`c[m]UbX`5`bh\fc`dc`c[m`&`" `X`Y`bh]ž`h`Y`VUg]WY`Ya`Ybh]c`Z`X]gdi`h`k`]h`]b`U`h`Y`c`fY]h]WU`c`f`a`Y`h`c`X`c`c[]WU`d`Y`fgd`Y`W]j`Y`'`" `8`]gd`Umig_]`g`UggcW]UH`X`k`]h`g`W`c`U`f`m]bei`]fm]bW]i`X]b[`h`c`gY`fY`UH`X`h`c`W]h]WU`UbU`mg]gž`Uf[i`a`Y`bh]UbX`k`f]h`Y`b`Yi`dfY`gg]cb`(``K`f]h`Y`Ub`Y`ggUmik`]h`Wc`b`W`d`h`U`Wc`Y`fY`b`W`"

HYUW\]b[`GhfUH`[]Yg`

D`Y`UgY`fY`Z`f`h`c`h`Y`]b`Z`fa`Uh]cb`]b`A`cc`X`Y`

Ci h]bY

Mci f'dfcdcgU`k]``dfYgYbhHLY`[YbYfU`gffi Wñ fY`cZHLY`YggUmUbX`hLY`dfcj]g]cbU`cf`k cf_]b[`Y`Ya Ybhg`cZ
hLY`Uf[i a Ybž`hLY`dfcj]g]cb`cZgi V\YUX]b[gž`UbX`U`[YbYfU`]bX]WU]cb`cZHLY`WèbH`bhcZYUW`gi V\YUX]b["

7cbWdHg

Mci f'dfcdcgU`k]``]XYbh]žmHLY`WèbWdHg`fUbX`WèffYgdcbX]b[`h`]b_YfgE`hUhk]``VY`i gYX`i]b`hLY`YUggUm`

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

5`Wci fgY`fYUXYf`]g`Uj U]UV`Y`UhH`Y`I` B GK` `Vcc_g`hcfY`"D`YUgY`Vf]b[`h`Y`fYUXYf`h` WUgg`YUW`k`YY`_"

F YWca a YbXYX`F Ygci fWg

7ci fgY`9j U`i U`h`cb`UbX`8Yj`Y`cda`Ybh

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

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

≠mci `YbWci bhYf`U`dfcV`Ya `k \Yb`U`H`Ya dh]b[`hc`gi Va]hmc`i f`Ugg][ba YbhHfci [\`Hi fb]h]b`z`d`YUgY
H`Yd\cbY`9I H`fbU`Gi ddcfhcb`-` ,) `` `` ` %cf`Ya U]`H`Ya `cb`YI H`fbU`H`hgi ddcfh4 i bgk "YXi "Ui ``Gi ddcfh
\ci fg`UfY` , .\$\$Ua `--`%\$. \$\$da `cb`k YY_XUmg`UbX`- . \$\$Ua `--`) . \$\$da `cb`k YY_YbXg`fI *) `XUmg`U`m`YUfL` ≠mci
UfY`i bUV`Y`hc`gi Va]hmc`i f`Ugg][ba YbhXi Y`hc`U`ZU`i`hik]H`Hi fb]h]b`mci `a UmiUdd`miZc`f`Ub`YI H`bg]cb`Z`Vi hmc`i
a i ghfY`H]b`mci f`h]W`Yhbi a VYf`Z`ca `9I H`fbU`Gi ddcfhfU`cb[`k]H`Ubmc`H`Yf`fY`Yj UbhXcW a Yb`hgL`hc
]bWi XY`Ug`Yj]XYbW`hc`gi ddcfhmc`i f`YI H`bg]cb`Udd`]W]h]cb" ≠mci `Ya U]`9I H`fbU`Gi ddcfhmc`i `k]`

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`mW`dm]b[`Zca `U`gci fW`k]h`ci hUW_bck`YX[Ya Ybh`

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

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

hUddfcdf]UHY`dUfUd`fUg]b[.`7`U`b[]b[`U`ZYk`k cfXg`UbX`d`fUgYg`k`Y`a cghmifYU]b]b[`hY`cf][]bU`
ghfi W`fY`UbX`#`f`dfc[fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`ž`UbX`]bZcfa U]cb`k]h`ci hUW_bck`YX[Ya Ybh`H\]g`U`gc`
Udd`]Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`UbchYf`g`]XYUg`cf`k cfXg`k]h`ci hWYX]hU`bX`hc`
d]YW]b[`hc[YhYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k \c`Yž`k]h`ci hUddfcdf]UHY`fYZYfYbW]b["

7 c`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_]7 c`i g]cb`U`gc`
]bWi XYg`dfcj]X]b[`mci f`k cf_]hc`UbchYf`gh`XYbhVYZc`fY`hY`Xi Y`XUHYž`cf`Zc`f`hY`di fdcgY`cZ`hY`a

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wc'dmf][\hžI BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZħY'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby'jb'ħY'I BGK 'Wc a i b]m
- `cWJh'gYfj]Wg'UbX'jbZcfa Uhcb'UVci hl BGK 'UbX'I BGK '@VfUfm

Gca Y'cZħYgY'UfYUg'k]`VY'ZJa]]Uf'hc'mci žcħYfg'k]`VY'byk "; U]b]b['U'gc`X'i bXYfghUbx]b['cZU`ħY fY'UH'X'UgdYW'g'cZ9@G9'k]`Y'd'mci 'a U_Y'ħY'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hd. #gi V'YW'f i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

5 WXYa]WbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[`rc.