



ARTS4266

Di nn`Ygž`D`Ubb]b[ž`UbX`DfYgYbhU]cb`žcf`<`cbci`fg`]b`h\Y
GcWU`GWYbWg

HYfa`Cby`#`&\$%

7 ci fgY`Cj Yfj JYk

`GHUZZ7cbhUWhi8YHJ`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj`]m	@cWWhcb	D\cbY
GjcV\Ub`C fGi ``jUb	gjcV\Ub"cgi ``j Ub4 i bgk "YXi "Ui		; &\$ZA cfj Yb 6fck b	- ' ,) '\$* , -

GW\cc``7cbhUWhi`bZcfa Uhjcb

GW\cc``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]bhtg '*`

Gi a a UfmicZ\hY'7 ci fgY

H\]g'jg'U'Wta di `gcfmVci fgY'Zc'GcW]U'GWYbWg`cbci fg'ghi XYbhtg]b'hY'GWcc`cZGcW]U'GWYbWg" `k]`b]bfcXi W'mci `hc'hY'dfUW]W'cZ\hYg]g'k f]h]b[`UbX'gi ddcfimeci `]b'hY'YUfmg]U[Yg'cZXYj Y'cd]b[mci f`cbci fg'Uf[i a YbH'H\]g'Wci fgY'j]bWi XYg'hd]W]gi W'Ug.'i g]b[``]VfUfmfYgci fWg'Zc'f`cbci fg' ghi XYbhtg]bWi X]b[`fYgYUfW'Wcbgi `hU]cb'UbX'UW]gg'hc'XUHUUgYg/hY'fc'Y'cZa YhcXg'j]b'fYgYUfW'UbX hY'i gY'cZ\hYcfm]b'ZUa]b[`UbX'WcbXi W]b[`U'fYgYUfW'dfc'YWh]b'hY'gcW]U'gWYbWg/mci f'Yh]W' fYgdc]b]V]h]Yg'Ug'U'fYgYUfW'Yf/UbX'd'Ubb]b[`UbX'a UbU[]b[`U'fYgYUfW'dfc'YW]k cf_]b[`YZYW]j Y'mk]h mci f'gi dYfj]gcf/h]a Y'UbX'XUHU'a UbU[Ya Ybhtg_]`g" H\Y'Wci fgY'j]bfcXi W'g'mci `hc'hY']XYU'cZ'ZUa]b[mci f'fYgYUfW'Ug'Ub'j]b]fY Yb]cb'j]b'U'X]g]d'j]bUfmXYVUH'f'c'f'gYf]Yg'cZXYVUH'gE" 5'dUfh]W'Uf'Zc'W'g'cZ\hY Wci fgY'j]b]bfcXi W]b[`ghi XYbhtg'hc'hY'hYg]g'Zc'fa "H\]g'j]bWi XYg'YUfb]b[`UVci h'hY'Wta dcbYbhdUf]g'cZU a]bcf'hYg]g]z'UbX'h]b_]b[`UVci h`ck `mci `a][\hWcb]gh] W'mci f'ck b'hYg]g]z'Zc'fa U]a i a `]a dUW]"

7 ci fgY'@YUfb]b[`Ci hWta Yg

%` ÆYb]h]Zm'hY'ZYUhi fYg'cZUb'ci h]h]UbX]b[`hYg]g'cf'X]ggYf]U]cb""
&" J YfVU`mdfYgYbha UHf]U'j]b'Ub'Yb[U[]b[`UbX'j]bZc'fa U]h] Y'k Un'
' " K cf_`Wc`UVcfU]h] Y'mk]h'Wc`YU[i Yg'hc'g\UfY'g_]`g'UbX'_bck `YX[Y'fY'Yj Ub]hc'dfcXi W]b[`U'a]bcf hYg]

HYUW]b[`GhfUH[]Yg'

H\Y'j]b]b]g]j Y'k cf_g\cd'U`ck'g'mci `hc'[Yhk cf_]b[`cb'mci f'fYgYUfW'dfc'YW]g'ei]W'm'`h]g'XYg][bYX'hc Vch'gi ddcfimeci ž'UbX'hc'YZ]W]Yb]h]m]b]bfcXi W'mci `hc'hY'_Ymid]YW]g'cZ'_bck `YX[Y'mci `k]`bYXX'hc Wta d'YH' mci f`cbci fg'mYUf" H\]g'j]bWi XYg'j]bZc'fa U]h]cb'cb'hY'Yh]W]U'Udd']W]h]cb'dfc'W]gg]z'XUHU'g]hc'fU[Yž k cf_]b[`k]h'U'gi dYfj]gcf'UbX``]VfUfmfYgci fWg" H\Y'UggYgga Yb]h]Zc'W'g'k]`VY'cb'j]b]b]h]h]b[`YI W'YbW]b'hYg]g'k f]h]b[`VmWcbgi]h]b[`Vch'hY'`]Hf]Uhi fYž'UbX'dUgh`cbci fg'hYgYg" Mci `k]`U'gc'g\UfY'hY]f YI dYf]h]gYžk]h'chYfg'j]b'hY'WUgg]j]U'mci f'[fci d'dfYgYb]h]h]cbg" 8]ZYfYb]hd'fYgYb]h]h]cbg'k]`VY'Zc'W'gYX cb'X]ZYfYb]h]Y'Ya Ybhtg'cZU'a]bcf'hYg]g""

5ggYgga Ybh

5ggYgga YbhHUg_g`

5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
9ggUm	* \$i	&) #' #&\$%- '\$- .\$\$'5A	%
; fci d'dfYgYbhUjcb`	' \$i	&+#\$(#&\$%- '%\$. \$\$'5A	&Z
7`Ugg; i]XY!'VUgYX'cb dfYgYbhUjcb`	%'\$i	&+#\$(#&\$%- '%\$. \$\$'5A	'

5ggYgga Ybh8YHU]`g

5ggYgga Ybh%'9ggUm

GHUfhXUHŸ.`

8YHU]`g. 'Gh XYbŸg'k]`k f]Ÿ'U'&ž) \$\$'k c fX'YggUmZ:W gYX'cb]XYbh]ZŸ]b['UbX'YI d`c f]b['h'Y'ZYUŸ fYg'cZUb
ci hŸUbx]b['fYgYUfW'X]ggYfUjcb"Q %o %o %o ZUbZm ZUbZm ZUbZm

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

F YWca a YbXYX`F Ygci fWg

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

: YYXVUW`Zcf`h]g`Wci fgY`Wca Ygj]U`hY`I BGK``cb`]bY`gh XYbhZYXVUW`gmghYa "": YYXVUW`]g`i gYX`tc
a U_Y`WUub[Yg`tc`hY`Wci fgY`]b`hY`Zc`ck]b[`mYUf`

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

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

≠nci`YbWci bhYf`U`dfcV`Ya`k`Yb`UthYa dh]b[`hc`gi Va]hnci f`Ugg][ba YbhHfci [\`Hi fb]h]bzd`YUgY

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'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5W'WdhUV'Y'I gY'cZ I BGK '⇒H'F Ygci f'Wg'Dc`]Wm
- VY'Uk UfY'cZ'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]Wg'UbX'j]bZcfa Uh]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZ'Y'gY'UfY'Ug'k]`VY'ZJa]]Uf'hc'mci ž'c'h'Yfg'k]`VY'byk "; U]b]b['U'gc`]X'i bXYfghUbx]b['cZU`'h'Y fY'UH'X'UgdY'W'g'cZ9@-G9'k]`'Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK "'

[\hhd.##ji V'Y'W'i \]X'Yg" \]VfUfm'i bgk "YXi "Ui #' \]gY#\]Vci h' \]gY](#)

5 WUXYa]WbZcfa Uhcb`

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

- fYei Yghg`ZcfYI hYbg]cb/
- `UhY`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I B GK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcVWXi fYg/
- gdYWU`Vc]bg]XYfUh]cb`]b`hY`Yj Ybhcz]`bYgg`cf`a]gUXj Ybh fY/
- ghi XYbhYei]m]UbX`X]gUV`]m/
- UbX`chYfYggYbh]U`UWUXYa]W]bZcfa Uh]cbz`gYY

[\hhdg.#k k k "Ufng"i bkg "YXi "Ui #W ffYbhghi XYbh\]bZcfa Uhcb`dfc\]b`g! \[i \]XY`\]bYg#](#)

⇒ U[Y`7 fYX]h

GmbYf[]Yg`]b`Gci bX`&\$%*`

7F ⇒ CG

7F ⇒ CG`Dfcj]XYf`7 cXY. '\$\$\$- , ;