



ARTS2036

A cXYfb]ga . 'HYI h'UbX'GWfYYb

HYfa 'Hk c ''##'&\$%-

GWcc''cZH Y '5ftg'UbX'A YXJU''##'I BGK ''5ftg'UbX'GcWJU''GWYbWg

7ci fgY`Cj Yfj]Yk

`GHUZZ7cbhUWhi8YHU]`g`

`7cbj Ybcfg`

B Ua Y	9a U]`	5j U]UV]]m	@cWU]cb	D\cbY
>c\b`5hf]X[Y	^Uhf]X[Y4 i bgk "YXi "Ui	Hi YgXUm%&!%cf`Vm Uddc]bha Ybh	K YVghYf`&&	- ' ,) ((, (

GW\cc``7cbhUWhi`bZcfa Uh]cb

Fcca "`%&ž`Yj Y`` `F cVYfhk YVghYf`6i]X]b[

D\cbY.`f\$&Ł`- ' ,) `(,) *

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

K YVg]hY: [\hfdg.#gUa "Ufng"i bgk "YXi "Ui](#)

H\Y`GW\cc``cZhY`5fng`UbX`A YX]U`k ci `X``_Y`hc`F YgdYWz`m5W_bck`YX[Y`hY`HfUX]h]cbU``7i ghcX]Ubgž`hY`6YXY[U`fP`Ybg]b[hcb`WUa di gŁž; UX][U`f7]mUbX`5fhi`8Yg][b`7 Ua di gYgŁ`UbX`hY`B [i bbUk U`dYcd`Y`f5i ghfU]Ub`8YZ`bWV : cfW`5WUXYa mi]b`7 UbVYffUŁ`cZhY`UbXg`k \YfY`YUW`WUa di g`cZI`BGK`]g`cWUHYX"

7 ci fgY'8YHJ]`g

7 fYX]hDc]bfg`*`

Gi a a UfmicZ\Y'7 ci fgY

Gi VYWh5fYU.7`Y`eZ

H\]g`Wci fgY`Wb`U`gc`VY`gh`X]YX`]b`h\Y`Zc`ck`]b[`gdYW]U`]gU]cb.`8[^`E fgV[W6

H\]g`Wci fgY`]b]fcXi`W`g`mci`hc`h\Y`k`Uj`Y`cZYI`dYf]a`YbhU]cb`]b`h\Y`Uf]g`h`Uhk`Y`\Uj`Y`Wca`Y`hc`WU`
`aVWd`[e`"8i`f]b[`h\Y`Z]fghZc`fmc]f`gc`mY`Ufg`cZ`h\Y`k`Ybh]Yh`W`b]h`fmz`fUX]j]cbU`Uf]hZcfa`g`i`bXYfk`YbhUb
i`bdfYW`XYbhYX`dfcW`gg`cZ`fY`j`c`i`h]cb`UbX`]b]bcj`U]h]cbz`Ug`Uf]h]ghg`UbX`k`f]hYfg`gci`[`h]fUX]WU`m]bYk`k`Um]g`hc
YI`dfYgg`h\Y`YI`dYf]YbW`cZa`cXYfb]m]K`Y`k`]`Wcbg]XYf`h\Y`k`cf_g`cZU`fUb[`Y`cZ]bX]j`]Xi`U`9i`fcdYUb`UbX
Bcfh`5a`Yf]W]b`a`cXYfb]ghk`f]hYfg`UbX`Z]a`!a`U`Yfgz`Ug`k`Y`Ug`YI`Ua`]b]b[`gca`Y`cZ`h\Y`a`UbmWc`Y`W]j`Y
a`cj`Ya`Yb]g]z`[`fci`di`gW`Yg`UbX`"jga`g`h`Uhgdf]Ub[`i`d`Xi`f]b[`h\]g`dYf]cX`"5`h`ci`W]ghc]bY`cZci`f]bei`]f]mk`]`
VY`h\Y`j`YI`YX`fY`U]h]cbg]d`VY`k`YYb`"a`cXYfb]m]"Ug`U`\]g]h]f]WU`WcbX]h]cb`UbX`"a`cXYfb]ga`"Ug`U`W`h`fU`
a`cj`Ya`Yb]h`K`h`U]h]XcYg`]h]a`YUb`hc`VY`a`cXYfb]3`K`h`U]h]UddYbg`hc`Uf]h]k`h`Yb`h]fUX]h]cbU`VY`]Y`Zg`UbX`k`Um]g`cZ
]Z`Y`b]h]f`U`dYf]cX`cZ`dYfa`UbYbh]W]g]g`-`U`dYf]cX`Z`h`U]h]g]z`k`h`Yb`"U`h`U]h]g`gc`]X`a`Y`h]g`]b]h]c`U]p`3`5`bX`XcYg
a`cXYfb]ghW`h`fY`h]UW`i`g`k`Um]g`hc`ZY`U]h]ca`Y`]b`a`cXYfb]m]z`cf`XcYg`]h]fYa`]bX`i`g`cZci`f`U`]YbU]h]cb3`

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

%`F`YUX`a`cXYfb]gh`]h]f]U]h`fY`UbX`Z]a`W]h]WU`m
&`F`Y`U]h`a`cXYfb]gh`]h]f]U]h`fY`UbX`Z]a`hc`h\Y]f`W`h`fU`Wcb]h]Y`h
`"8`fUk`Wcb]bYW]j]cbg`VY`k`YYb`_Yma`cXYfb]gh]h]Y`hg`UbX`Z]a`g`
(`A`U`Y`U`dYf]g]Ug]j`Y`Uf[`i`a`Ybh
)`":`cfa`i`U]h`UbX`XYZ]bX`Ub`]bXYdYbXYbh]c]b]h]c]Z]`j]Yk`cb`U`gi`V`Y`W]z`k`h`Y`fU`]b[`]b]h]c`U`W]h]c`i`bh]h`Y
j`j]Yk`g`UbX`Uf[`i`a`Yb]g`cZ`h\Y`fg
*`9a`d`cm]fYgYUfW`g_]`g]z`]b]W]X]b[`Z]bX]b[`Udd]c]d]f]U]h`gY`WcbXUf]ma`U]h]f]U`UbX`i`g]b[`]h]W]h]WU`m`

HYUW]b[`G]h]f]U]h[`]Yg`

HYUW]b[`g]h]f]U]h[`]Yg`UbX`fU]h]cbU`Y.

@YWh`fYg]z`h`hc]f]U`g`UbX`UggYgga`Ybh]b`h\]g`Wci`fgY`g]ci`X`[`]j`Y`mci`h\Y`g_]`g`bY`W]ggUf]m]h`dYf]Zcfa
]b]h`]`[`Yb]z`]bXYdYbXYbh]fYUX]b[`g`cZa`cXYfb]gh]h]Y`hg`UbX`hc`Wca`a`i`b]W]h]h`h]c]gY`fYUX]b[`g]b`Wc[`Ybh
gdY`Y`W`UbX`dfc]gY`

@YWh`fYg.

!`]b]fcXi`W`UbX`XYZ]bY`h\Y`Wci`fgY`f]g`Wc`fY`Wcb]W]d]h]z`]b]W]X]b[`YgdYW]U`m`"a`cXYfb]ga`""`UbX`""`a`cXYfb]m]"`
!`XYa`cb]g]h]f]U]h`h\Y`d]f]U]h]W]g`cZ]W]h]W]fYUX]b[`h\U]h]mci`bY`YX`hc`Udd`m]b`UggYgga`Ybh]fU]g_g
!`UbU`mgY`h]Y`hg`UbX`g]h]i`U]h`h\Ya`]b`h\Y]f`gc]W]U`UbX`W`h`fU`Wcb]h]Y`hg`

Hi`hc]f]U`g.

K`YY`_m]h`hc]f]U`g`Yb]Wci`fU[`Y`mci`hc`fYUX`Wcb]h]bi`ci`g]m]h]f]ci`[`h]ci`h]h\Y`gYa`Ygh]f`UbX`dfc]j]XY`U`Zc]fi`a`hc
XYj`Y`cd`mci`f`ck`b`fYUX]b[`g]b`X]U`c[`i`Y`k`]h`h]c]gY`cZ]mci`f]b]g]h]i`Wc]f`UbX`dY`Y`fg`

5ggYgga Ybh

5ggYgga YbhHUg_g

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

GYY`A ccXY

F YWca a YbXYX`F Ygci fWg

GYY`A ccXY

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

=j U`i Y`ghi XYbhZYXVUW`\[[\mUbX`i gY`]hlc`fYz]bY`a mWci fgYg`Yj YfmYUF`H\UhgU]Xz`h]g`Wci fgY`\Ug`bch
fi b`VYZc`fY`]b`]hg`dfYgYbhZcfa "Gh XYbtg`]b`hY`dUgh\Uj Y`Wca a YbhX`hUhhY`Wci fgY`a cj Yg`ei]W`mUbX
\Uj Y`Yl dfYggYX`U`k]g\`hc`gdYbX`a cfY`hUb`cbY`k YY`_cb`Wf]U]b`hYl hgzk` \]W` =i gYX`hc`hfmhc
UW`Wca a cXUHy`z`Vi hh\Uhg`]bc`]cb[Yf`dcgg]V`Y`]b`hY`h]a Ygh`f`Zcfa UH`C`b`hY`c`hYf`\UbXzk`Y`bck` \Uj Y
a cfY`h]a Y`Zc`f`X]gW`gg]cb`YUW`k YY`_zk` \]W` =\cdY`k]`VY`Ub`]a dfcj Ya Ybh`

=`cc`_`Zcfk UfX`hc` \YUf]b[`mci f`ZYXVUW`h]fci [\`A m9l dYf]YbW`UbX`c`hYf`W`UbbY`g`UW`cgg`hY`gYgg]cb"

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Hi fb]hb`Gi Va]gg]cb

Ʒmci`YbWci`bhYf`U`dfcV`Ya`k`Yb`U`H`Ya`dh]b[`h`c`gi`Va`]h`mci`f`Ugg][`ba`Ybh`h`fci`[`\`Hi`fb]hb`z`d`YUgY`
H`Y`d`l`cb`Y`9I`H`fb`U`Gi`ddc`fh`cb`-`,`),`"`,`'`,`%`c`f`Ya`U]`h`Ya`i`cb`YI`H`fb`U`H`h`gi`ddc`fh`4`i`bgk`"YXi`"Ui`"Gi`ddc`fh`
`l`ci`fg`U`f`Y`,`.\$`\$Ua`i`-%`\$.`\$`da`i`cb`k`YY`X`Umg`U`b`X`-`.`.\$`\$Ua`i`-`i`).`\$`da`i`cb`k`YY`Y`b`X`g`f`l`*)`X`Umg`U`m`Y`U`f`l`"Ʒmci`
U`f`Y`i`b`U`V`Y`h`c`gi`Va`]h`mci`f`Ugg][`ba`Ybh`Xi`Y`h`c`U`Z`U`i`h`k`]h`Hi`fb]hb`mci`i`a`Um`i`U`dd`m`i`Z`c`f`U`b`YI`H`bg]cb`z`Vi`h`mci`
a`i`gh`f`Y`h`U]b`mci`f`h`W`Y`h`bi`a`V`Y`f`Z`c`a`i`9I`H`fb`U`Gi`ddc`fh`f`U`cb[`k`]h`U`b`m`c`h`Y`f`f`Y`Y`U`b`h`X`c`W`a`Y`b`h`g`l`h`c`
]b`W`i`X`Y`U`g`Y`j`]X`Y`b`W`h`c`gi`ddc`fh`mci`f`YI`H`bg]cb`U`dd`]W`h`cb`"Ʒmci`Ya`U]`9I`H`fb`U`Gi`ddc`fh`mci`k`]`
Ui`h`c`a`U`h`W`U`m`i`f`Y`W`]j`Y`U`h`W`Y`h`bi`a`V`Y`f`z`Vi`h`]Z`mci`H`Y`d`l`cb`Y`mci`k`]`b`Y`Y`X`h`c`g`d`Y`W`Z`W`U`m`i`U`g`_`Z`c`f`c`b`Y`"
Hi`fb]hb`U`g`c`d`f`c`j`]X`Y`g`i`d`X`U`H`Y`g`i`c`b`h`Y`]f`g`m`g`h`Y`a`i`g`h`U`h`g`i`c`b`H`k`]h`Y`f`"

;`Y`b`Y`f`U`m`z`U`gg`Y`g`g`a`Y`b`h`U`g`_`g`a`i`gh`V`Y`gi`Va`]h`Y`X`Y`Y`W`f`c`b]W`U`m`j`]U`Y`]h`Y`f`Hi`fb]hb`c`f`U`A`cc`X`Y`
U`gg][`ba`Y`b`h`i`b`]b`g`h`U`b`W`g`k`Y`f`Y`h`l`g`]g`b`c`h`i`d`c`g`g]V`Y`Z`]h`k`]`V`Y`g`h`U`H`X`i`c`b`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`
U`h`f`b`U`h`j`Y`gi`Va`]gg]cb`X`Y`h`U]`g`"

:`c`f`]b`Z`c`f`a`U`h]c`b`c`b`l`c`k`h`c`gi`Va`]h`U`gg][`ba`Y`b`h`g`i`c`b`]b`Y`j`]U`A`cc`X`Y`.\`h`h`d`g`#`g`h`X`Y`b`h`i`bgk`"YXi`"Ui`#`ack`!
gi`Va`]h`U`gg][`ba`Y`b`h`a`cc`X`Y`"

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 hW`YX]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`i 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 hW`YX]h`UbX`hc`
d]YW]b[`hc[Y`hYf`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'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]W'g'UbX']bZcfa Uh'cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

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

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

