



ARTS4268

A YhkcXc`c []Yg`]b`hY`GcW]U`GWYbWg. `E i Ygh]cbg`UbX
E i UbXUf]Yg

HYfa `Hk c`#`&\$&\$



GWcc`cZGcW]U`GWYbWg`#`I BGK ``5ffg`UbX`GcW]U`GWYbWg

7ci fgY`Cj Yfj JYk

GHJZ`7cbhJW`8YhJ`g

7cbj Ybcfg

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

GWcc`7cbhJW`hZcfa Uhjcb

GWcc`cZGcWU`GWYbWg

Fcca`%) -

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

Ya Uj`.gcgg4 i bgk "YXi "Ui

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

7ci fgY'8YHJ`g

7fYX]hDc]bhtg`*`

Gi a a UfmicZ\hY'7ci fgY

BchY. H\]g:]g'U`%&! C 7 `Wci fgY"McI `k]`Ybfc`]b`*`! C 7]b`YUWX`cZfk`c`gi W\Wgg] Y`h'fa`g`k]h`U`fYgi`h`
fYdcfhYX`VmU`g]b[`Y`[fUXY`UhH`Y`YbX`cZ\hY`gYV`bX`*`! C 7 `Wci fgY"

H\]g:]g'U`WcfY`Wci fgY`Zcf`<cbci fg`WUbX]XUH`g`]b`h`Y`GV\cc`cZGcW]U`G`WYbW`g`UbX`h`Y`a`U]b`Zc`W`g`k`]`VY`
h`Y`ei`Ygh]cb`cZa`Y`h`c`Xc`c`[m`9UVX`gYa`]bUf`k`]`cc`_`UhX]ZY`fYbhUddfcUWX`Yg`h`c`fYgYUfWX`UW`fcgg`h`Y`gi`V!`
X]gW]d`]bYg`UbX`k`]`YI`d`cfY`k` \Uhk`Y`a`][\hW`h`Y`'gc`k` \Uf`cZU`dUf]W`Uf`a`Y`h`c`Xc`c`[m]g`UbU`m]WU`
`Yj`YfU[Y`"K` \mXc`h`Y`GcW]U`G`WYbW`g`VfYU`_`]bhc`a`mf]UX`z`W`a`dYh]b[`a`Y`h`c`Xc`c`[]Yg3`7`Ub`k`Y`XYgW]VY`
ci`f`a`Y`h`c`Xc`c`[]Yg`Ug`g`WYb]Z`W`UbX`]Zbch`h`Yb` \ck`Xc`k`Y`VYghgYW`fY`U`bc]cb`cZUW`W`fUW`h`UbX`
i`gY`Z`bYgg3`<ck`XcYg`ci`fi`bXYfgh]UbX]b[`cZy`]XYbW`UW`h`U`m`W`Ub[Y`ci`f`fYgYUfWX`a`Y`h`c`Xg`Ug`k`Y`Ug`
h`Y`ci`h`W`a`Yg`UbX`W`bW`i`g]cbg`h`Uhk`Y`a`][\hfYUWX`3`

7ci fgY`@YUfb]b[`Ci hW`a`Yg

%`5dd`miW]h]W`h`]b_]b[`UbX`UbU`m]Wg_]`g`
&`9ZY`W]j`Y`mXYd`cmU`dUf]W`Uf`h`Y`cfmfc`f`a`Y`h`c`Xc`c`[]W`U`ddfcUWX`
'`" `8Yg][b`UbX`gi`gh]b]Ub`Uf[i`a`Y`b]z`cf`dc]bhcZ]]Yk`
(`" `XYbh]ZmiUbX`Udd`mi`h`Y`Y`h`]W`h`f`Yei`]fYa`Y`bhtg`UbX`fYgdcbg]V`]h]Yg`cZfYgYUfWX`Yfg`"

HYUWX`]b[`GhfUH`[]Yg`

GYa`]bUfg`k`]`VY`W`bXi`W`YX`Vm`h`Y`W`c`fX]bU`h`f`k`]h`]bdi`hZ`ca`c`h`Y`f`gdYW]U`]gh`h`Y`UWX`]b[`ghUZZ`h`c`[i`]XY`
gh`XY`bhtg`h`f`ci`[\`h`Y`d`fc`W`gg`cZ`W`bXi`W]b[`fYgYUfWX`U`h`c`bci`fg`Yj`Y`z`k`cf_]b[`k`]h`U`gi`dYfj`]gcf`UbX`
d`U`bb]b[`UbX`YI`YW`h]b[`Ub`]bXY`dYbXY`bh`fYgYUfWX`d`fc`Y`W`h`

@]VfUfmfYgci`fW`g`Zcf`\cbci`fg`gh`XY`bhtg`k`]`VY`YI`d`U]bYX`Vm`h`Y`ci`hfYUWX`"]VfUf]Ub`h`c`Ugg]ghgh`XY`bhtg`k`]h`
fYgYUfWX`]b[`h`Y]f`h`Yg]g`h`cd]W`

GhfUH`[]Yg`Zcf`W`ccg]b[`U`fYgYUfWX`h`cd]W`UbX`bUff`ck`]b[`Xck`b`h`Y`g`W`dY`h`c`U`a`UbU[YUV`Y`d`fc`Y`W`h`k`]`VY`
k`cf`_g`l`cddYX`k`]h`h`Y`Ugg]gh]UbW`cZgi`dYfj`]gcf`]b`h`Y`GV\cc`UbX`fYW`bh`c`bci`fg`[fUXi`UH`g"

5ggYgga Ybh

8YHJ`g'cZUggYgga YbhHJg_g

5`UggYgga Ybhg'g\ci `X`VY.

@Yb[h. (\$\$\$'k cfXg

8YHJ]g.

(\$\$\$'k cfX'j]bXj]Xi U'fYgYUfVX 'dUdYf' Gh XYbHg 'fYVW] Y'k f]Hb' ZYXVUW_ UbX'U'bi a Yf]W' [fUXY'k]h]b
hk c'k YY_g'cZgi Va]gg]cb" 'H\]g]g'h\Y'Z]bU'UggYgga YbhZc'f'h]g'Ve'i fgY"

5XX]h]cbU'XYHJ]g.

H\Y'h]fX'UbX'Z]bU'UggYgga YbhHJg_ 'Zc'f'h]g'Ve'i fgY]g'h\Y'fYgYUfVX 'dUdYf' "b'h]g'dUdYfZ'mci 'a i gh
UXXfYgg'h\Y'Zc'ck]b['h'fYY'ei Ygh]cbgZ'k \]VX 'UfY'h\Y'gUa Y'h'fYY'hcd]Vg'h\Uh'h\Y [i YghdfYgYbhYfg'\Uj Y
UXXfYggYX'YUWX'k YY_'h'fci [\ci h'h\Y'gYa YghYf.

%" K \UhX]gW]d']bUfmUbX'gWxc'Uf'mhUX]h]cbg' #dYfgdYW]j Yg' #gYbg]V']]h]Yg'Xc'mci 'Vf]b['hc'h\Y
fYgYUfVX 'h\Uh'mci 'k]'Xc'h\]g'mYUf3'
&" <ck 'Xc'h\YgY'X]gW]d']bUfmUbX'gWxc'Uf'mhUX]h]cbg' #dYfgdYW]j Yg' #gYbg]V']]h]Yg'UZZYWh'h\Y'fYgYUfVX
h\Uh'mci 'UfY'Xc]b[3
, "

F Ygci fWg

DfYgWfjVYX`F Ygci fWg`

K YY_m]bgfi W]cbg`UbX`fYgci fWg`k]`VY`Uj U]UV`Y`cb`A ccX`Y"

F YWca a YbXYX`F Ygci fWg

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

Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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

≠mci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UHYa` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiHfci`[`\`Hi`fb]h]b`z`d`YUgY`
HY`Yd\cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``"``%cf`Ya`Uj`h`Ya`icb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`""Gi`ddcfh`
\ci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`icb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`icb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiXi`Y`hc`U`ZU`ihk`]h`Hi`fb]h]b`mci`a`UmUdd`mZc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`ghfYhU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhfU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`UbhXcW`a`Ybhtg`L`hc`
]bWi`XY`Ug`Yj`]XYbVW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`≠mci`Ya`Uj`9I`HYfbU`Gi`ddcfhmc`i`k`]`
Ui`hca`U]WU`mifYW]j`Y`U`h]W`Yhbi`a`VYf`z`Vi`h]Zmci`HY`Yd\cbY`mci`k`]`bYYX`hc`gdYW]Z]WU`mUg`Zc`f`cbY`
Hi`fb]h]b`U`gc`dfcj`]XYg`i`dXUH`g`cb`h`Y]f`gmghYa`ig`hU`h`g`cb`Hk`]hYf`"

;`YbYfU`mz`UggYgga`YbhiUg_g`a`i`ghVY`gi`Va`]hYX`Y`YWfcb]WU`mj`]U`Y]h`Yf`Hi`fb]h]b`cf`U`A`ccX`Y`
Ugg][`ba`Ybhi`h`]bghU`bVW`g`k` \YfY`h`lg`]g`bchidcgg]V`Yz`]hk`]`VY`ghU`h`X`cb`mci`f`Wci`fgY`g`A`ccX`Y`g]h`k`]h`
U`HYfbU]h]`Y`gi`Va`]gg]cb`XYhU]g`"

:`cf`]bZcfa`Uh]cb`cb`\ck`hc`gi`Va`]hUgg][`ba`Ybhtg`cb`]bY`j`]U`A`ccX`Y`. \hhdg`#gh`XYbhi`bgk`"YXi`"Ui`Ack`!
gi`Va`]hUgg][`ba`Ybhta`ccX`Y`"

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

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`c`f`X`g`c`f`]X`Y`U`g`c`Z`c`h`Y`f`g`i`U`b`X`d`f`Y`g`Y`b`h]b[`h`Y`a` `U`g`m`c`i`f`c`k`b``#W]b`h]U`_`Y`a`U`b`m`
Z`c`f`a`g`Z`Z`c`a` `X`Y`]V`Y`f`U`h`Y` `W`X`Y`U`h]b[`h`c` `U`W`W`Y`X`Y`b`h]U`m`i`W`c`d`m]b[`Z`c`a` `U`g`c`i`f`W` `k`]h`c`i`h`U`W`_`b`c`k` `Y`X[`Y`a` `Y`b`h`

I`B`G`K` `[`f`c`i`d`g`d`U[]Uf]ga `]b`h`c` `h`Y` `Z`c` `c`k`]b[`W`U`h`Y`[`c`f]Y`g.

- 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]Wg'UbX'j]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 ""

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

