



ARTS5506

5i ghfU`]Ub`5Vcf][]bU``@Ub[i U[Yg

Gi a a Yf`##`&\$&%

7 ci fgY`Cj Yfj]Yk

GHJZ 7 cbHJW`8YHJ]`g

7 cbj Ybcfg

B Ua Y	9a U]			

7ci fgY'8YHJ]`g

7fYX]hDc]bqg`*`

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

6miH_]b[`h`g`W`ei fgY`z`mci `k`j` [U]b`Ub`UddfYW]U]cb`cZ5i`ghfU]U`g`f]W`UbX`W`a`d`Yi`'5Vcf][]bU`]]b[i]gh]W
\Yf]H[Y`]b`W`b`h`a`dcfUfmUbX`fUX]h]cbU`W`b`h`I`hg`"Mci` `k`j`"XY`j`Y`]b`c`U`W`fUfYX`fUb[Y`c`Z`h`d]Mg`]bW`i`X]b[
`Ub[i U[Y`UbX`h`Y`"UbX`z`_]bg\]d`UbX`gcW]U`c`f[Ub]gU]h]cb`z`b`UffU]h] Y`UbX`W`bj`YfgU]h]cb`z`Ub[i U[Y`UW`ei]g]h]cb`z`
`Ub[i U[Y`W`b`h`UW`z`"Ub[i U[Y`UbX`YXi`W]h]cb`z`"Ub[i U[Y`a`U]b`h`b`UbVW`"UbX`fYj`]j`U`"9UW`c`Z`h`Y`g`Y`h`d]Mg`k`j`
VY`X]gW`ggYX`k`]h`fY`Z`fY`b`W`h`c`Yb[U[]b[`W]gY`gh`X]Yg`c`Z`W`ffY`b`h`fY`g`Y`U`f`W`"UbX`W`ffY`b`h`W`a`a`i`b]m]VUgYX
dfc`Y`W]g`"H`f`ci` [\`h`Y`Yi`d`c`f`U]h]cb`c`Z`h`Y`g`Y`h`d]Mg`z`mci` `k`j`"Y`U`f`b`U`V`ci`h`h`Y`W`X`U`f`U`W`Y`f]g]h]W`]b[i]gh]W
dfcdYf]h]Yg`c`Z`5i`ghfU]Ub`"Ub[i U[Yg`UbX`Udd`m`UbU`m]h]W]g_]`g`h`c`h`Y`XY`g`W]d]h]cb`c`Z`5i`ghfU]Ub`"Ub[i U[Y
XU]h]"H`Y`f`Y`k`j`"VY`U`Z`c`W`g`c`b`c`k`b`Y`k`k`Umg`c`Z`g`d`Y`U_]b[`U`f`Y`W`Y`U`h`X`z`c`k`"Ub[i U[Yg`U`f`Y`"c`g`h`z`UbX`h`Y
k`Umg`]b`k` \]W`"5Vcf][]bU`gd`Y`U`_`Y`f`g`U`f`Y`h`U`W`]b[`UbX`fYj`]j`]b[`h`Y`f`h`f`U`X]h]cbU`"Ub[i U[Yg`h`c`X`U`m`"Mci` `k`j`
k`c`f`_`k`]h`U`g`Y`Y`W]h]cb`c`Z`U`i`h`Y`b`h]W`B`G`K`"5Vcf][]bU`"Ub[i U[Y`a`U`h`f]U`"Z`c`a`"G`h`U`h`"@]V`f`U`f`m`c`Z`B`G`K`
W`c`"Y`W]h]cbg`"b`X`c]b[`gc`z`mci` `k`j`"U`j`Y`"UbX`g!`cb`Yi`d`Yf]Y`b`W`]b`c`k`h`c`Z]bX`UbX`i`h]gY`f]W`"U`f`W`]j`U`
]b[i]gh]W`a`U`h`f]U`"UbX`h`Y`Y`h`]W`"d`f`U`W]h]W`g`]b`h`Y`a`UbU[Ya`Y`b`h`UbX`i`gY`c`Z`5Vcf][]bU`"Ub[i U[Y`a`U`h`f]U`g`"
Mci` `k`j`"h`U`_`Y`U`k`U`m]Z`c`a` `h`g`W`ei`fgY`U`XY`Y`d`Y`b`Y`X`i`b`X`Y`f`g`h`U`b`X]b[`c`Z`g`c`W]U`"UbX`W`h`f`U`"X]j`Y`f`g]m]U`g`g`Y`Y`b`
h`f`ci` [\`h`Y`"Y`b`g`c`Z`"Ub[i U[Y`z`UbU`m]h]W`"a`Y`h`c`X`g`"UbX`W]h]W`"h`]b`_]b[`g_]`g`z`UbX`_`b`c`k`Y`X[Y`c`Z`f`Y`g`Y`U`f`W`

5ggYgga Ybh

5ggYgga YbhHUg_g

	5ggYgga YbhHUg_		K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hŸa Yg'5ggYggYX
	E i]n'				

Gh XYbng`k]`k f]h`Ub`UbU`m]W]`gW`c`Uf`mUW]XYa]WYggUmf&Z) \$\$`k cfXgE`Gi [[YghX`YggUmhcd]Wg`k]`VY
a UXY`Uj U]`UV`Y`cf`gh XYbng`W]b`XYj Y`cd`h`Y]f`ck b`]b`W`bgi `h]cb`k]h`h`Y`W`i fgY`W`bj Ybcf`A Uf_]b[
i g]b[`U`fi Vf]W`Gh XYbng`fYW]j Y`Ub`]bX]j]Xi U`a Uf`_`UbX`]bX]j]Xi U`k f]h`b`ZYXVUW`_`

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

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

D`YUgY`fYZf`h`A ccX`Y`Zf`a cfY`XYHJ]`g"

F YWca a YbXYX`F Ygci fWg

D`YUgY`fYZf`h`A ccX`Y`Zf`a cfY`XYHJ]`g"

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

H\]g`]g`h`Y`Zfgh]a Y`h`]g`Wci fgY`Ug`VYYb`c`ZYfYX"=k`]`k`Y`Wca Y`ZYXVUW`h`fci [\ci h`h`Y`Wci fgY`gc`h`Uh`]
]h`WUb`VY`]a`dfcj`YX`UbX`k`]`fYei`YghZcfa`U`ZYXVUW`Zca`]gh`XYbhg`Uh`h`Y`YbX`c`Z`h`Y`Wci fgY" H\]g`]
ZYXVUW`U`cb[`k`]h`fYgi`hg`c`Z`h`Y`gh`XYbhZYXVUW`]b`a`m9I`dYf]YbW`fYdcf]g`k`]`VY`i`gYX`h`]a`dfcj`Y`h`Y`]
Wci fgY"

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`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`YUgY`
HY`Yd`\\cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``'``%cf`Ya`U]`h`Ya`cb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`""Gi`ddcfh`
\\ci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Zi`h`k`]h`Hi`fb]h]b`mci`a`Um`Udd`m`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`gh`fY`hU]b`mci`f`h]W`Yhbi`a`VYf`Z`ca`9I`HYfbU`Gi`ddcfh`f`U`cb[`k`]h`Ub`mch`Y`f`fY`Yj`Ub`hXc`W`a`Yb`hg`L`hc`
]b`Wi`XY`Ug`Yj`]XYb`V`hc`gi`ddcfh`mci`f`YI`HYbg]cb`Udd`]W`h]cb`≠mci`Ya`U]`9I`HYfbU`Gi`ddcfh`mci`k`]`
Ui`hc`a`U`h]W`m`f`Y`W`j`Y`U`h]W`Y`hbi`a`VYf`z`Vi`h]Z`mci`HY`Yd`\\cbY`mci`k`]`b`Y`Y`X`hc`gd`Y`W`Z`W`m`Ug`_`Zc`f`cbY`
Hi`fb]h]b`U`gc`d`fcj`]XYg`i`d`XU`HY`g`cb`h`Y]f`gm`gh`Ya`g`h`U`h`g`cb`Hk`]h`Y`f`"

;`Yb`Y`f`U`m`z`Ugg`Y`gga`Yb`hi`U`g`_`g`a`i`gh`V`Y`gi`Va`]h`Y`X`Y`Y`W`f`cb]W`m`j`]U`Y`]h`Y`f`Hi`fb]h]b`cf`U`A`cc`X`Y`
Ugg][`ba`Yb`h`i`h`]b`gh`U`b`W`g`k`\\Y`f`Y`h`g`]g`b`ch`d`c`gg]V`Y`z`]h`k`]`V`Y`g`h`U`Y`X`cb`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`
U`h`Y`fb`U`h]`Y`gi`Va`]gg]cb`X`Y`hU]`g`"

:`cf`]b`Z`c`fa`U`h]cb`cb`\\ck`hc`gi`Va`]h`Ugg][`ba`Yb`hg`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`gh`XYb`h`i`bgk`"YXi`"Ui`#`ck`!
gi`Va`]h`Ugg][`ba`Yb`h`a`cc`X`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`U`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][\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'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby'jb'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]Wg'UbX'jbZcfa Uhcb'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'YWfi \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

5 WUXYa]WbZcfa Uh]cb

: cf`YggYbh]U`gh XYbh]bZcfa Uh]cb`fY`Uh]b[`tc.

- fYei Ygh]Zcf`YI H`bg]cb/
- `Uh`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I BGK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcW`Xi fYg/
- gdYW]U`W`bg]XYfUh]cb`]b`hY`Yj YbhcZ]`bYgg`cf`a]gUXj Ybh fY/
- gh XYbhYei]mUbX`X]gUV`]m/
- UbX`c`hYf`YggYbh]U`UWUXYa]W]bZcfa Uh]cbz`gYY