



ARTS3290

9a d]fYg`]b`K cfX`<]ghc fm

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

7ci fgY`Cj Yfj]Yk

`GHUZZ7cbhUWhi8YHUJ`g`

`7cbj Ybcfg`

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| B Ua Y | 9a Uj` | 5j Uj`UVj]m | @cWUjcb | D\cbY |
| GUj\U`6Y`a Yggci g | g"VY`a Yggci g4 i bgk "YXi "Ui | : f]XUmž%%Ua `hc`%&da | A 6' * & | - ' ,) &' * & |

GWXcc``7cbhUWhi`bZcfa Uhjcb

GWXcc``cZ<i a Ub]hYg`UbX:@Jb[i U[Yg

@cWUjcb. `GWXcc``C Z]WžA cfj Yb`6fck b`6i]X]b[ž@Yj Y``ž&),

CdYb]b[`<ci fg.`A cbXUm! : f]XUmž- Ua `!) da

D\cbY. `ž*%&`- ' ,) `%*, %

: U! . `ž*%&`- ' ,) ; , +\$)

9a Uj]. [\U`4 i bgk "YXi "Ui](#)

7ci fgY'8YHJ>`g

7fYX]hDc]bhr`*`

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

H\Y`ghi XmicZYa d]fY`]g`W]h]WU`]b`i bXYfghUbx]b[`h`Y`dcghW`c`b]U`dfYgYbhz`h`Y`fY!Ya Yf[YbW`cZYa d]fYz`
dYfg]gh]b[`dfcV`Ya g`cZ`X] [Ybci g`f] [`hg`UbX`tc`W`b`h`Ya dcfUfmi bXYfghUbx]b[g`cZ`i`a`Ub`f] [`hg`a`cfY`
 [YbYfU`m`H`g`W`i`fgY`k`j`d`fc`j`XY`U`W]h]WU`YI`Ua`]bU]cb`cZ9i`fcdYUb`W`c`b]U`]XYc`c` []Yg`UbX`dfUW]W`g`" `#`
k`j`U`gc`Z`W`g`c`b`h`Y`]a`dYf]U`YI`dYf]YbW`g`cZ`W`c`b]nYX`dYcd`YgZ`c`c`_]b[`Uhk`Umg`]b`k` \]W`h`YmYb[U[YX`
k`]h`Ya`d]fY`UW`c`gg`d`UW`g`UbX`h`a`Y`"

9a d]fYg`]b`K`cfX`<]ghcfm]k`j`cZYf`mci`h`Y`cddcfi`b]m]h`i`bXYfghUbx`k` \Uh]a`dYf]U`]ga`k`Ug`UVci`h` \ck`]h`
W`Ub[YX`h`Y`ZUW`cZ`h`Y`k`cfX`UbX`]hg`]a`dUW`icb`h`Y`dfYgYb`h`H`Y`W`i`fgY`k`j`Z`Ja`]Uf]nY`mci`k`]h`_Ym`
W`b`W`d]h`z`h`i`hg`UbX`a`Y`h`c`X`c`c` []Yg`Z`f`h`Y`ghi`XmicZ`W`a`dUfU]j`Y`]a`dYf]U`]ga`Ug`k`Y`Ug`YUf`m`a`cXYfb`UbX`
a`cXYfb` \]ghcfm`H`cgY`k`c`gi`W`W`ggZ`m`W`a`d`Y`h`h`g`W`i`fgY`k`j`ghfYb[h`Y`b`h`Y`f`Ub`m]h]W`UbX`
fYgYUfW`g`_]g`Ug`k`Y`Ug`h`Y`f` \]ghcf]W`_bck`YX`Y`"

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

%`5bU`mgY`_YmY]`Yb]h`z`]XYUg`z`dYcd`Y`UbX`h`fYbXg`]b`]a`dYf]U` \]ghcfm`
&`F`YUX`c`b[!h`fa`d`U`h`f`bg`]b`W`c`b]U`]ga`UbX`]a`dYf]U` \]ghcfm`UbX`i`bXYfghUbx`h`Y`f`g][b]ZUWbW`
'`" `9b[U[Y`k`]h`W]h]WU`XYVU`h`g`c`b]a`dYf]U`]ga`UbX`]hg`Y` [UW]Yg`
(`" `5bU`mgY`UbX`]b`h`f`d`f`h`X`c`W`a`Y`b`h`g`
)`" `7cbXi`W`h]bXY`dYbXY`bhgW`k`c`U`f`m`Y`bei`]fm`

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

F`U]cbU`Y.`h`h`Y`W`i`fgY`]g`XYg][bYX`tc`YbW`i`fU[Y`gh`XYb]h`tc`Yb[U[Y`W]h]WU`mik`]h`d`UghUbx`W`ffYbh`
XYVU`h`g`UVci`h`9i`fcdYUb`]a`dYf]U`]ga`UbX`]hg`]a`dUW`icb`W`c`b]gYX`UbX`W`c`b]g]b[`gc`W`Y`h`Y`g`" `#`k`j`U`gc`
]b`f`c`Xi`W`gh`i`XYb]h`tc`fYW`b`h`fYgYUfW`c`b` \i`a`Ub`f] [`hg`UbX`h`Y`f] [`hg`cZ`X] [Ybci g`dYcd`Yg`" `9UW`k`YY`_`
U`gdYW]Z]W]ggi`Y`k`j`VY`h`Y`Z`W`g`cZ`h`Y`fYUX]b[g`z`h`Y`Y`W`h`fY`UbX`h`Y`gYa`]bUf`X]gW`gg]cb`"

G`h`f`U`h`Y` []Yg.`h`h`Y`fYUX]b[g`z`U`V`UgYX`c`b`g`W`k`c`U`f`m`]h`f`U`h`fYz`dfc`j`]XY`W`b`h`i`h`U`]b`Z`fa`U]cb`" `H`Y`c`b`Y`!`c`i`f`
`Y`W`h`fY`dfYgYb]h`9i`fcdYUb`]g]cbg`cZ`Ya`d]fY`VmYI`d`c`f]b[`h`Y`_Ym]XYUg`z`]XYc`c` []Yg`UbX`gmg]h`a`g`h`U`h`
gi`ddcf]h`X`Ya`d]fY`!`Vi`]X]b[`UbX`a`UbU[Ya`Yb`h`f`h`h`Y`&bX`UbX`" `fX` \ci`fg`z`k`Y`k`j`Z`W`g`c`b`h`Y`j`c]W]g`cZ`
Ya`d]fY`Vm]g]h`Xm]b[`XcW`a`Y`b]h`g`d`f`c`Xi`W`X`V`m]h`cgY`k`c`j`YX`]b`h`cgY`Ya`d]fYg`f`W`c`b]gYX`dYcd`Yg`z`
cZ]W]U`g`z`gY`h`Y`fg`k`K`Y`U]a`h`c`i`bXYfghUbx` \ck`]a`dYf]U`gi`V`Y`W`h`YI`dYf]YbW`X`Ya`d]fYz`]b`c`h`Y`f`k`cfXg`z` \ck`
h`YmYb[U[Y`k`]h`]hg`]XYc`c` []Yg`z`ghf`i`W`h`fYg`UbX`dc`]W]Yg`C`i`f`dYfgdYW]j`Y`f`h`Y`]a`dYf]U`gi`V`Y`W`h`g`dc]b]h`cZ`
j`]Yk`k`U`ck`g`U`a`cfY`W`a`d`YI`i`bXYfghUbx]b[`cZ]a`dYf]U`]ga`UbX`]hg`Y`ZY`W`g`c`b`gi`V`Y`W`h`dYcd`Yg`"

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Hi fb]hb'gYhb[. H\]g'Ugg][ba Ybh]g'gi Va]hX'hfci [\ Hi fb]hb'UbX'gh XYbhg'Xc' bchgYY'Hi fb]hb
g]a]Uf]mfYdcfrg"

5ggYgga Ybh' . 7`Ugg'hYgh

GHUfhXUHY . %&#\$, #&\$% '\$- . \$\$'5A

@Yb[h. %\$\$'a]bi hYg

8YhU]`g. !WUgg'hYgh`cb['Ubkg Yf'ei Ygh]cbg" Gh XYbhg'fYW]j Y'U'bi a Yf]W]'a Uf_'UbX'Wcbgi `h'hY'`YWh fYf
Zcf'Z fhYf'ZYXVUW_"

Hi fb]hb'gYhb[. H\]g']g'bchU'Hi fb]hb'Ugg][ba Ybh

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| K YY_%%'5i [i gh! '* 5i [i gh | @YWh fY | 7`Ugg'hYgh |
|----------------------------------|---------|------------|

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

K YY_ma UbXUhcfmfYUX]b[g`UfY`Uj U]UV`Y`cb`A ccX`Y"

F YWca a YbXYX`F Ygci fWg

Mci`g\ci`X`Vi mi<YUhYf`GhfYYhg!GU`h`f`UbX`HfYj`cf`F`"; Ymž7_ b[dMē S`V 5a`ā` [Mē [`fZW? aVWd`I` adV,
3 9`āTS^BWēbWUf[hWfBYk`Mcf_`C I`ZcfX`I` b]`Yfg]mDfYggž`&`\$`%`Ł`H\]g`Vcc_`]g`Uj U]UV`Y`Uh`h`Y`I` BGK
6cc_g`h`c`f`Y`"H\YfY`UfY`U`gc`U`Wēi`d`Y`c`Z`Wēd]Yg`]b`h`Y`<I` 7`Uh`h`Y`"VfUfm`I` bZ`f`h` bU`h`m`h`Y`f`Y`]g`bc`Y!
WēdmiUj U]UV`Y"

5XX]hcbU`fYUX]b[g`cb`k`YY_`m`h`c`d]Wg`WU`b`VY`Zci`bX`cb`h`Y`A`ccX`Y`Wēi`fgY`dU[`Y"

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

Gh`XYbhZYXVUW_k`j`"VY`[`U`h`Y`f`Y`X`j`]U`A`m`9I`d`Y`f`Y`b`W`U`h`h`Y`Y`b`X`c`Z`h`Y`Wēi`fgY`UbX`h`f`ci`[`\`U`V`f`]Y`Z]b!WUgg
Yj`U`i`U]cb`Xi`f]b[`h`Y`f`]a`Y`g`h`f`"

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[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybh`h`fci`[`\`Hi`fb]hb`z`d`YUgY`
H`Y`d`l`cb`Y`9I`H`f`b`U`G`i`d`d`c`f`h`c`b`-`,`),`"`,`'`,`%`c`f`Y`a`U`]`h`Y`a`i`c`b`Y`I`H`f`b`U`H`Y`h`gi`d`d`c`f`h`4`i`b`g`k`"Y`X`i`"U`i`"Gi`d`d`c`f`h`
`l`c`i`f`g`U`f`Y`,`.\$`\$`U`a`i`-`%`\$`.\$`\$`d`a`i`c`b`k`Y`Y`_`X`U`m`g`U`b`X`i`-`.\$`\$`U`a`i`-`i`).`\$`\$`d`a`i`c`b`k`Y`Y`_`Y`b`X`g`i`f`l`*)`X`U`m`g`U`i`m`Y`U`f`l`"Ʒmci`
U`f`Y`i`b`U`V`Y`h`c`gi`Va`]hmc`i`f`Ugg][`ba`Ybh`X`i`Y`h`c`U`Z`U`i`h`k`]h`Hi`fb]hb`mci`i`a`U`m`i`U`d`d`m`i`Z`c`f`U`b`Y`I`H`f`b`g]c`b`z`V`i`h`mc`i`
a`i`g`h`f`Y`h`U]b`mci`f`h`W`Y`h`b`i`a`V`Y`f`Z`c`a`i`9I`H`f`b`U`G`i`d`d`c`f`h`f`U`c`b[`k`]h`U`b`m`c`h`Y`f`f`Y`Y`j`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`d`d`c`f`h`mci`f`Y`I`H`f`b`g]c`b`U`d`d`]W`h`c`b`"Ʒmci`Y`a`U`]`9I`H`f`b`U`G`i`d`d`c`f`h`mci`k`]`
U`i`h`c`a`U`h`W`U`m`i`f`Y`W`]j`Y`U`h`W`Y`h`b`i`a`V`Y`f`z`V`i`h`]Z`mci`H`Y`d`l`c`b`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`j`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`g`g`Y`g`g`a`Y`b`h`U`g`_`g`a`i`g`h`V`Y`g`i`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`c`c`X`Y`
U`g`g][`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`c`i`f`g`Y`g`A`c`c`X`Y`g`]h`k`]h`
U`h`f`b`U`h`]Y`g`i`Va`]gg]c`b`X`Y`h`]g`"

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

5 WUXYa]W<c bYghmiUbX '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" 4WUb'fU_Y'a Ubm
Zcfa gZ'Zca 'XY'jVYfUHy'WXYU]b['hc'UWVXYbU'mW'cdm]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.

7cdm]b[. 'i g]b['hY'gUa Y'cf'j Yfmg]a]Uf'k cfXg'hc'hY'cf][]bU'hYI hcf'jXYU'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'jYg'hc'ja U[YgZ'UfhUbX'XYg]['b'dfc'YWgZ'Ug'k Y''Ug
dfYgYbU]cbg'k \YfY'gca YcbY'dfYgYb]g'UbchYf'g'jXYUg'cf'k cfXg'k]h'ci hW'YX]h'

4Uddfcdf]UHy'dUfUd\ fUg]b[. '7 \Ub[]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'z'UbX']bZcfa U]cb'k]h'ci hUW_bck 'YX[Ya Ybh' 'H\]g'U'gc
Udd'jYg']b'dfYgYbU]cbg'k \YfY'gca YcbY'dUfUd\ fUgYg'UbchYf'g'jXYUg'cf'k cfXg'k]h'ci hW'YX]h'UbX'hc

5 WUXYa]WbZcfa Uh]cb`

: cfYggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`rc.

• fYei Ygh]ZcfYI hYbg]cb/

