



ARTS1092

K cf_]b['k]h '8UH

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

7 ci fgY`Cj Yfj]Yk

GHJZ`7cbHJW`8YHJ]`g

7cbj Ybcfg

7ci fgY'8YHJ]`g

7fYX]hDc]bhtg`*`

Gi a a UfmicZ\hY'7ci fgY

8UH'UbX']hg'f\Y'fcf]WUFY'U'`Ufci bX'i`g" H\Y'k Umg']b'k \]W'k Y']a U[]bY'XUH'Ug'k Y'`Ug'h'Y'XUH'cV'Y'W'g
h'Ya g'Y'j Yg'\Uj Y'U'dfcZci bX']a dUW'icb'h'Y'k Umg']b'k \]W'h'Y'k cfX']g'cf[Ub]gYXZ'\ck`fYgci fW'g'UFY
X]ghf]Vi h'XZ'\ck`k Y'i bXYfg'U'UbX'fY'W'bh'Y'j Ybhtg'UbX'k \U'hk Y'W'e'a Y'hc`_bck`Ug`"ZUW'j Yfgi`g'a YfY
"cd]b]cb""`b'h'lg'W'e'i fgY'mci`k]'`YUfb'hc`V'ch'dfcXi W'`UbX'W']h'W'`m'UbU'mgY'XUH'cV'Y'W'g" `b`UXX]h]cb'hc
dfUW'h]V]b[`XUH'YI hfUW'h]cbZ'UbU'mg]g'UbX'j]gi U']gU'h]cbZ'mci`k]'`YUfb'\ck`hc`Y'j U'i UH'`h'Y'a i`h'd'Y
YI Ua d'Yg'cZXUH'h'Uh'mci`Y'bW'e'i bh'f`"j'b'h'Y'k]X" `XUH'h'Uh'UFY'i gYX'Vm'h'Y'a YX]Uz'Vm[`cj Yfba Ybhtg'UbX
W]j]'gcW'Y'h'm'hc`YI d'U]b'UbX'cf[Ub]gY'h'Y'k cfX'Ufci bX'mci`"6m'h'Y'YbX'cZ'h'Y'W'e'i fgY'Z'mci`k]'`\Uj Y'[U]bYX
U'gc`X`]b'hcXi W]cb'hc`h'Y'dfcW'ggYg']bj c'j YX']b'k cf_]b[`k]h'XUH'UbX'Ub'UV']]m'hc`fYZYW'icb`W`ffYbh
XYVUH'g'UVci h'h'Y']a dUW'icZXUH'cb'gcW'Y'h'm'

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

%` 9I hfUW'h]UbU'mgY'UbX'j]gi U']gY'XUH'j]b'a YUb]b[Z`z'Y'h']W'k Umg
&" 7f]h]W'`mYj U'i UH'XUH'cV'Y'W'g
' " F YZYW'icb`W`ffYbhXYVUH'g'UVci h'h'Y']a dUW'icZXUH'cb'gcW'Y'h'm'

HYUW'X]b[`G'h'FUH'Y[]Yg`

H\Y'ZcW'g'cZ'h]g'W'e'i fgY']g'cb`Yei]dd]b[`mci`k]h'h'Y'g_]`g'hc`V'ch'dfcXi W'`UbX'W']h'W'`m'UbU'mgY'XUH
cV'Y'W'g" `Mci`k]'`[U]b'\UbX'g'cb`YI dYf]YbW'`cZk cf_]b[`k]h'XUH'j]b'h'Y'dfcW'gg'cZXUH'YI hfUW'h]cbZ'
UbU'mg]g'UbX'j]gi U']gU'h]cbZ'Ug'k Y'`Ug'UW'e'i]f]b[`h'Y'g_]`g'bY'W'ggUf'm'hc`W']h'W'`mYj U'i UH'XUH'cV'Y'W'g'UbX
fYZYW'icb`W`ffYbhXYVUH'g'UVci h'h'Y']a dUW'icZXUH'cb'gcW'Y'h'm'`H\Y'gh'fi W'i fY'cZ'h'Y'W'e'i fgY'fYei]fYg'h'Uh
mci`UFY'UW'h]j Y'mYb[U[YX']b`V'ch`Y'W'i fYg'UbX'h'hc]U'g'g]bW'`mci`f'dfc[fYgg'k]h'V'ch'h'Y'cfm'UbX'dfUW'h]W'
YUW'X'k YY_]g'Ub`YggYbh]U'W'e'a dcbYbh'cZ'mci`f`UggYgga Ybhtg"

5ggYgga Ybh

5ggYgga YbhHUg_g`

5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
7 f]h]WU`>ci fbU`	(\$i	Bch5dd`]WUVY	.
DcfhZc`]c`	* \$i	% (#\$, #&\$&\$ \$) . \$\$ 'DA	%ž&

5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`7 f]h]WU`>ci fbU`

GHUfhXUHŸ.`

@Yb[h. `&ž\$\$\$`k cfXg`ž#`%\$i

8YHU]`g.

fHbX] jXi U`hUg_ž5ddfcI ``&ž\$\$\$`k cfXg`"9UW`k YY_`fZca`k YY_`&!` `UbX`+!%\$E`mci` UfY`fYeI`jFYX`hc`dfcXi W`
U`g\cfhf&) \$`k cfXE`W]h]WU`fYgdcbgY`hc`h`Y`k YY_`mfYUX]b[g`"Mci`a`i`ghYb[U[Y`k`]h`U`W`cbW`dhcf`]XYU`]b
h`Y`fYUX]b[`UbX`a`U_`Y`U`W`bbYW]cb`hc`Ub`YI`Ua`d`YžhI`hž`j`gi`U`]gU]cbž`cf`]ggi`Y`h`U`h`mci` \Uj`Y`W`a`Y
UWfcgg`]b`mci`f`ck`b`]bXYdYbXYbhfYgYUfW`": YYXVUW_`dfcj`jYX`j`jU`W`i`fgY`@A`G`"

5XX]h]cbU`XYHU]`g.

D`YUg`Y`gYY`A`ccX`Y`Zcf`Z` ``UggYgga YbhXYgW]dh]cb

Hi fb]h]b`gYh]b[.`H\]g`]g`bchU`Hi fb]h]b`Ugg][`ba`Ybh

5ggYgga Ybh&.`DcfhZc`]c`

GHUfhXUHŸ.`

@Yb[h. `%ž) \$\$\$`k cfXg`ž#`%\$i

8YHU]`g.

fHbX] jXi U`hUg`/:`]bU`hUg_ž`Mci`k`]`dfcXi W`" `!` `XUH`cV`Y`W`g`#`a`U[Yg`UbX`dfcj`jYX`h`I`h`U`U`bbchU]cbg`cZ
h`cgY`cV`Y`W`g`f%ž) \$\$\$`k cfXgE`": YYXVUW_`dfcj`jYX`j`jU`W`i`fgY`@A`G`"

5XX]h]cbU`XYHU]`g.

D`YUg`Y`gYY`A`ccX`Y`Zcf`Z` ``UggYgga YbhXYgW]dh]cb

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

BchiUj U]UV`Y

F YWca a YbXYX`F Ygci fWg

BchiUj U]UV`Y

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

h]g`ja dcfhUbhikUhgih XYbhg`Wca d`Yh`hY`a m9i dYf]YbW`Wci fgY`UbX`hUWk]b[`gi fj Ymg`Zcf`h]g`Wci fgY`
H\]g`]g`Wca d`Yh`miUbcbrma ci g`UbX`dfcj]XYg`ja dcfhUbhigih XYbhicVgYfj Uh]cbg`UbX`gi [[Ygh]cbg`tc`Ybgi fY
hUhikY`Wci fgY`]g`Wcb]bi U`m]a dfcj YX`" `b`UXX]h]cbz`YWi fYfg`UbX`h`tcfg`]bj]h`]bZcfa U`ZYXVUW`Zca
gh XYbhg`h]fci [\ci h`hY`gYa Ygh`f`"

Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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

Ʒmci`YbWci bHYf`U`dfcV`Ya`k` \Yb`UH`Ya` dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`Y`UgY`
HY`Yd`cb`Y`9I`HY`fb`U`Gi`ddc`fh`cb`-`,`)`"``"``%`cf`Ya`U]`h`Ya`i`cb`YI`HY`fb`U`HY`hgi`ddc`fh`4`i`bgk`"YXi`"Ui`"Gi`ddc`fh`
`l`ci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`i`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`i`cb`k`YY`YbXg`f`l`*)`XUmg`U`m`Y`Uf`l`"Ʒmci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Z`Ji`h`k`]h`Hi`fb]h]b`mci`i`a`Um`Udd`m`Z`f`Ub`YI`HY`bg]cb`z`Vi`hmc`i`
a`i`gh`f`Y`h]b`mci`f`h]W`Y`hbi`a`VY`f`Z`ca`9I`HY`fb`U`Gi`ddc`fh`f`U`cb[`k`]h`Ub`m`c`h`Y`f`f`Y`Y`Ub`h`X`c`W`a`Y`b`h`g`k`h`c`
]b`Wi`XY`Ug`Y`j`]X`Y`b`W`hc`gi`ddc`fh`mci`f`YI`HY`bg]cb`Udd`]W`h]cb`"Ʒmci`Ya`U]`9I`HY`fb`U`Gi`ddc`fh`mci`k`]`
Ui`h`ca`U`h]W`U`m`f`Y`W`]j`Y`U`h]W`Y`hbi`a`VY`f`z`Vi`h]Z`mci`HY`Yd`cb`Y`mci`k`]`b`Y`Y`X`hc`gd`Y`W`Z`W`U`m`Ug`_`Z`f`c`b`Y`"
Hi`fb]h]b`U`gc`d`fc`j`]X`Y`gi`d`X`U`h`g`c`b`h`Y`]f`g`m`g`h`Y`a`i`g`h`U`h`g`c`b`H`k`]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`c`b]W`U`m`j`]U`Y`]h`Y`f`Hi`fb]h]b`c`f`U`A`cc`X`Y`
Ugg][`ba`Yb`h`i`h`]b`g`h`U`b`W`g`k` \Y`f`Y`h`l`g`]g`b`c`h`d`c`g`g]V`Y`z`]h`k`]`V`Y`g`h`U`h`X`c`b`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`h]g`"

:`c`f`]b`Z`c`fa`U`h]c`b`c`b`l`c`k`hc`gi`Va`]h]Ugg][`ba`Yb`h]c`b`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`g`h`XY`b`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][\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'jb'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]Wg'UbX'jbZcfa 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](#)

5 WUXYa]W=Zcfa Uh]cb

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

- fYei Yg]Zcf`YI H`bg]cb/
-