



ARTS2754

F YgYUfWX `Zcf` a dUW`j b ; `cVU` `8Yj Y`cda Ybh

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

7 ci fgY`Cj Yfj]Yk

GhJZZ'7cbhJWw'8YhJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cW]h]cb	D\cbY
@UbU`HUrci f	""Hrci f4 i bgk "YXi "Ui	6m5ddc]bta Ybh	%%&5`A cfj Yb 6fck b`6i]X]b[

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

GW\cc``cZGcW]U`GWYbWg

Fcca`%) -

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

Ya U]`.gcgg4 i bgk "YXi "Ui

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

7 ci fgY'8YHJ`g

7 fYX]hDc]bHg '*`

Gi a a UfmicZ\hY'7 ci fgY

HUW_]b['hY'k cfXf [fYUHyghWU`Yb[Yg'gi WX'Ug'dcj Yfmz`bYei U`]mz`Ybj]fcb a YbHU`XYghfi W]cbz i fVUb]gUhc]b'UbX'W]a UHY`]bXi W'X'X]gUghYfg'fYei]fYg'Ub'i bXYfghUbX]b['cZ\hYgY`]ggi Yg`Zca`X]j YfgY X]gW]d`]bUfmdYfgdYW]j Yg" `h'g]Wci fgYz`mci `k]`WcbXi W'fYgYUfW`Zcf'dcg]h] Y`WU]b[Y`]b'hY'cZ`Yb WU`Yb[]b[`Ybj]fcb a YbhcZXYj Y`cda Yb'h`Mci `k]`YUfb`hc`ck`hc`k cf_]b`]b'hY'fX]gW]d`]bUfmi'fYgYUfW`hYUa g`hc`gc`j Y`Wca d`YI`dfcV`Ya g" `Mci `k]`VY`]bhcXi W'X`hc`a YhcXc`c[]Yg'UbX'hYcf]Yg'hUhUfY`fY`Yj Ubh hc`i bXYfghUbX]b[`UbX`k cf_]b[]b`XYj Y`cda YbhWcbhYI hg'z`UbX`k]h`X]j YfgY`[fci dg`cZdYcd`Y" `GdYW]U`UHY`b]cb`k]`VY`d`UW`X`cb`hY`]a d`]W]h]cbg`cZdck Yf`]b`_bck`YX[Y`dfcXi W]cb`dfUW]W]g`z`hY`i gY`UbX`]a]h]cbg`cZdUf]W]dU`hcfmUbX`UW]cb`fYgYUfW`z`Ug`k Y`Ug`fYgYUfW`Yh`W]g" `Mci `k]`Z]bX`h'g]Wci fgY UddYU`]b[]Zmci `k]g`hc`WcbXi W'fYgYUfW`Zcf`XYj Y`cda Ybh]b`UW]XYa]Uz`h]b`_hUb_gz`UbX`Zcf XYj Y`cda YbhU[YbW]Yg"

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

%` 5fh]W`UHY`hY`X]gh]bW]a YhcXg`cZXC]b[`fYgYUfW`]b`XYj Y`cda YbhWcbhYI hg'z`UbX`Uddfcdf]UHY`hY`W]b]ei Yg`Zcf`_bck`YX[Y`[YbYfU]cb` &" GY`YW]UbX`i h]`gY`Uddfcdf]UHY`a YhcXc`c[]W]`UddfcUW]Yg`]b`XYj Y`cda Ybh'fYgYUfW` ` " 8Ya`cbghUHY`Ub`Uk UfYbYgg`cZ\hY`df]bW]d`Yg`cZYh`W]`fYgYUfW`]b`XYj Y`cda Ybh` (" =>Yb]h]ZmUbX`Udd`mi`hY`g_]`g`UbX`hY`W]b]ei Yg`fYei]fYX`Zcf`Xc]b[`fYgYUfW`k]h`dYcd`Y`Zca`X]ZY`fYbh`gcW]c!YWcbca]W]X]gW]d`]bUfmiUbX`dfcZYgg]cbU`VUW_] fci bXg`

HYUW]b[`GhfUHY[]Yg`

HYUW]b[`ghfUHY[]Yg`k]`Ya d`Ug]nY`gh`XYbHg`Vf]b[]b[`hY]f`df]cf`YUfb]b[`hc`hY`WUggfcca`z`UbX`hY`Ua`k cf_]b`hY`Wc!Wcbghfi W]cb`cZ`_bck`YX[Y`H`g`fYd`]W]h]g`fYgYUfW`UbX`dfUW]W]Ybj]fcb a YbHg`]b`8Yj Y`cda Ybh`G`h`X]Yg`z`k` \]W`]g`]b'h'f]X]gW]d`]bUfmi`UbX`k` \]W`YI`d`]W]h]m]bW] XYg`a`i`h]d`Y`j`c]W]g`hc`dfcXi`W]UW]cbUV`Y`_bck`YX[Yfg]`@YW]h`fYg`k]`VY`]b'hY`fUW]j`Yz`UbX`k]`]bW] XY`[fci d`k cf`z`]bX]j]Xi U`fYZYW]cbz`UbX`W]h]W]`fYZYW]cb`cb`WcbhYbh`Hi`hc]U`g`k]`VY`gdUW]g`Zcf`gh`XYbHg`hc`fY`Z]bY`hY]f`i`bXYfghUbX]b[g`H\YfY`k]`VY`Ub`Ya d`Ug]g`cb`hY`Ua`k cf_]b`hY`h`hc]U`g`"

fYU
fYc

'D
li #

čZU

Y
gg

'h

]b
b
i

Y [
n
p

n
dg
dg
i h
j_Y
i fg
hYf

Ubw'k]h'h\Y'GWcc`cZGcWU'GWYbWg
H\Y'GcGG '[i]XY'i gYg'Ub]b!hYI hW]fU]cb'grgH'a "
X'Ug'K]_dYX]U'YhW'C j YfU`žfYgYUfVX'fYdcfng'UbX
Zcfž'chYf'h.Ub'cb']bY'ghU]ghVg"

5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
DYfgcbU`fYgYUfW ghUHya Ybh	(\$i	&,*#&\$&%\$).\$\$'DA	%ž'
F YgYUfW`dfcdcgU`	* \$i	%&#\$, #&\$&%\$).\$\$'DA	%ž'&ž(

5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`DYfgcbU`fYgYUfW`ghUHya Ybh

@Yb[h. `&ž\$\$\$

8YHU]`g.

DYfgcbU`fYZYWHcb`ci h]b]b[`hY`ghi XYbhg`dcg]hcbU`mž`UddfcUW`hc`Yh`WU`fYgYUfW`dfUWHWž`UbX`hY`df]bW]d`Yg`k` \]W`k`]` [i]XY`hY]f`VcbXi`Vh]b`hY`"ZY`X`f%ž) \$!&ž\$\$\$`k`cfXgk`"K`f]hY`b`ZYXVUW`k`]`VY`dfcj`]YX`k`]h]b`hk`c`k`YY_g`cZgi`Va`]gg]cb"

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

D`YUgY`Wcbgi`hA`ccX`Y`Zcf`Z`fhYf`]bZcfa`Uh]cb"

Hi`fb]h]b`gYH]b[.`H\]g`Ugg][`ba`Ybh]g`gi`Va`]hY`h`fci`[`\`Hi`fb]h]b`UbX`ghi`XYbhg`WU`b`gY`Hi`fb]h]b`ga`]`Uf]m`fYdcfng"

5ggYgga Ybh&`F YgYUfW`dfcdcgU`

@Yb[h. `ž\$\$\$!`ž) \$\$\$

8YHU]`g.

hX]j`]Xi`U`fYgYUfW`dfcdcgU`fl`\$\$\$!`)`\$\$`k`cfXgk`h`Uh]XYbh]ZYg`U`gi`]hUV`Y`fYgYUfW`ei`Ygh]cb`UbX`XYg][`bg`gi`]hUV`Y`a`Yh`cXg`hc`Ub]gk`Yf`hY`ei`Ygh]cb`]bW`X]b[`U`X]gW`gg]cb`cZ`Yh`WU`Wcbg]XYfU]cbg`"K`f]hY`b`ZYXVUW`k`]`VY`dfcj`]YX`k`]h]b`hk`c`k`YY_g`cZgi`Va`]gg]cb`"H\]g`]g`hY`Z]bU`UggYgga`YbhZcf`hY`di`fdcgYg`cZ`hY`UH`bX`UbW`dc`]W"

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

D`YUgY`Wcbgi`hA`ccX`Y`Zcf`a`cfY`]bZcfa`Uh]cb"

Hi`fb]h]b`gYH]b[.`H\]g`Ugg][`ba`Ybh]g`gi`Va`]hY`h`fci`[`\`Hi`fb]h]b`UbX`ghi`XYbhg`WU`b`gY`Hi`fb]h]b`ga`]`Uf]m`fYdcfng"

5 hYbXUbW`F Yei]fYa Ybhg

GYa]bUf`UhhYbXUbW`]g`Wca di `gcfmZcf`5F HG&+) ("Mci `a i gha U]bhU]b`, \$i `UhhYbXUbW`Zcf`hY`hfa f]g`
gYa]bUfg`Zcf`5F HG&+) ("H\]g`a YUbg`mci `WUb`a]gg`rk`c`cZ`hY`gYa]bUfg`"

7 ci fgY`GVX`YXi `Y

[J \]yk`WUgg`ha YhUV`Y](#)

H]a YhUV`Y`

8 UHY	HmdY	7 cbhYbh
K YY_`%`'`%A Um!`(`>i bY		
K YY_`&.`+`>i bY!`%% >i bY	6`YbXYX	7 ci fgY`-`hfcXi W]cb.`K `U]h]g`F YgYUfW`Zcf` 8Yj`Y`cda YbhUbX`GcW]U`7`Ub[`Y
K YY_`'`.`%`>i bY!`% >i bY	6`YbXYX	Dck Yfz`Dcg]hcbU`]mUbX`F YZYI]j`]m]b`F YgYUfW`Zcf` GcW]U`7`Ub[`Y
K YY_`(`.`&%>i bY!`&` >i bY	6`YbXYX	F YgYUfW`9h]Mg
K YY_`)`.`&.`>i bY!`&`>i`m	6`YbXYX	D`Ubb]b[`mci`f`F YgYUfW`Dfc`YWh
K YY_`*`.`)`>i`m!`-`>i`m	F YUX]b[5ggYgga Ybh	F YUX]b[`k`YY_`!`8Yj`Y`cd]b[`mci`f`fYgYUfW` ei`Ygh]cb`" DYfgcbU`F YgYUfW`GHU]a Ybhf5ggYgga Ybh%&!` 8i`Y`cb`HI`9G85M!`"\$>i`bY`&\$&\$!`A`-8B`>`<H`"
K YY_`+`.`%&`>i`m!`%*`>i`m	6`YbXYX	8Yg][`b]b[`mci`f`F YgYUfW`A`YhXc`c[`m
K YY_`,`'`.`%`>i`m!`&`>i`m	6`YbXYX	8UHJ`7`c`YW]cb`A`Yh`cXg
K YY_`-`.`&*`>i`m!`"\$>i`m	6`YbXYX	8UHJ`7`c`YW]cb`A`Yh`cXg
K YY_`%\$.`&`5i`[i`gh!`*` 5i`[i`gh	6`YbXYX	DUfh]W]dUhcfmUbX`5W]cb`F YgYUfW`

H\Y`gHfX`ei fbU`g`Uj Y`UfhWYg`fY`Yj Ubhfc`h`g`Wci fgY`"Gh XYbhg`UfY`YbWci fU[YX`hc`Vfck gY`hYgY
ei fbU`g`Zcf`]XYUg`UbX`W ffYbhifYbXg`]b`h`Y`]hYfUhi fY`"3` f[baVW 6WhWab_ W fS` V 5ZS` YW FZ[dV I adV
CgScfWdkl <agd S^aX6WhWab_ W f E fgV[W- 6WhWab_ W f [BcSuf[UW 8[WW ? WfZaVe- CgS fSf[hW;` cg[dkl
I adV 6WhWab_ W fZ

H\YfY`UfY`a Ubmicb`]bY`dcffU`g`h`Uh`Ug`XYj Y`cda YbhifYgYUfW`WcbXi WfX`VmXYj Y`cda YbhU[YbWYgZ
hYgY`]bWi XY`fUXX`]hcbU`cbYg`k`]`VY`a UXY`Uj U]`U`VY`cb`A ccX`Y`E`

Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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

≠mci`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`Ug`Y`
HY`Yd`l`cb`Y`9I`HY`fb`U`Gi`ddc`fh`cb`-`'`,`)`"``'``%'cf`Ya`Uj`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`"≠mci`
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`Yj`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`"≠mci`Ya`Uj`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`l`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`Y`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`"

:`cf`]b`Z`fa`U`h]cb`c`b`l`ck`hc`gi`Va`]h]Ugg][`ba`Yb`h]g`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]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]]hYg'Ug'U'gh XYbhUhl BGK
-

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 B GK `<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