



ARTS1660

hfcXi Wc fm? c fYUb '5

HYfa 'C bY ' #' &\$&%

7ci fgY`Cj Yfj JYk

GHJZ`7cbHJW`8YHJ`g

7cbj Ybcfg

B Ua Y	9a U]	5j U]`UV]`]m	@cW]hcb	D\cbY
;]!<mi b`G\]b	["g\]b4 i bgk "YXi "Ui	H"6"5"	F cca `&\$&ž	- ' ,) `%+ ' %
			A cfj Yb`6fck b	

@YW]i fYfg

B Ua Y	9a U]	5j U]`UV]`]m	@cW]hcb	D\cbY
;]!<mi b`G\]b	["g\]b4 i bgk "YXi "Ui	5g`5Vcj Y	5g`5Vcj Y	5g`5Vcj Y

Hi hcfg

B Ua Y	9a U]	5j U]`UV]`]m	@cW]hcb	D\cbY
F cgU`>cc`M b`MJb[^c"n]b[4 i bgk "YXi "Ui	H"6"5"	F cca `&*, ž	- ' ,) `%* - *
			A cfj Yb`6fck b	

GWXcc``7cbHJW`bZcfa Uhjcb

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

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

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

D\cbY. `ž*%&`- ' ,) `%*, %

: U! . `ž*%&`- ' ,) `; +\$)

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

7ci fgY'8YHJ]g

7fYX]hDc]bfg '*

Gi a a UfmicZhY'7ci fgY

H\]g'Wci fgY'dfcj]XYg]b]fcXi Wc'fm'Yj Y'h]h]cb]b'? cFYUb'Ub[i U[Y'Z'ca 'U'Wca a i b]W]h] Y'UbX'fUg_!VUgYX UddfcUW' H\Y'a YX]i a 'cZ]b]g]f]i W]cb]g'9b[']g\ 'UbX'Zk \YfYj Yf'Uddfcdf]UHY'Z? cFYUb' H\fc] [\ 'h]g'Wci fgY'Z mci 'k]'XYj Y'cd'VUg]W]Wca a i b]W]h] Y'g_]g]b'? cFYUb'h'fc] [\ 'j U]f]ci g'gdYU_]b['UbX'k f]h]b['UW]h]]h]Yg' H\Y'Wci fgY'VY[]bg'k]h' h'Y'? cFYUb'gci bX'gm]h]a 'UbX'VUg]W] fY'Y]b[g'UbX']b]fcXi W'g'U'bi a VYf'cZ [fUa a Uh]W]g]f]i W]h] fYg'UbX'j cW]Vi 'Ufm]h'Uh]UfY'YggYb]h]U'hc'VUg]W]Wca a i b]W]h]cb]b'? cFYUb'"J cW]Vi 'Ufm UbX' [fUa a Uh]W]g]f]i W]h] fYg'UfY'Yi d'fYggYX']b' < Ub[Yi 'UbX'd'fYgYb]h]X'k]h]b'h'Y'Wc'b]h]i hcZ'W'hi fU'm fY'Yj Ub]h]c]d]W]g' H\Y'hc]d]W]g'Wc]j YfYX']b'h'Y'Wci fgY']b]Wi XY']b]fcXi W]h]cb]g'UbX'[fY'Y]b[g]Z? cFYUb'U'd\UVY'h] YI W]Ub[]b[]b]Z'fa Uh]cb]Z'cZ]f]b['UbX'Ug_]b['Z'Wci b]h]b['Z'h]'b['h'Y'h]a Y'UbX'a U_]b['Uddc]b]h]a Yb]h]Z X]g]W]gg]b['XU]m]fci h]b]Yg'Ug'k Y''Ug'ZcX'Z'h]Uj Y''b['UbX'd'UW]g']b'? cFYU'"K \YfYj Yf'Uddfcdf]UHY'Z'h'Y Wci fgY'i h]j]g]Yg'? !dcd'a Uh]f]U]g'UbX'f]W]V]f]fYU']U]f]

H\]g'Wci fgY']g'U'VY[]bb]Yf]g]Yj Y''Ub[i U[Y'Wci fgY'"5''gh] XYb]h]k \c \Uj Y'UX'gca Y'Yi dYf]Yb]W'k]h' h'Y' 'Ub[i U[Y'Z'Y]h]Yf'Ug'\Yf]h]U] Y''Ub[i U[Y'cf'h'fc] [\ 'd'fYj]ci g]b]g]f]i W]cb]Z'a i gh]Z''b'h'Y'd'UW]a Ybh ei Yg]h]cbb]U]fY'Uj U]UV'Y'Uh'\h]d]g.#k k k"Uf]g"i b]gk "YXi"Ui #AU#g]h]Xmi g#fYgci f]W]g]i ddc]f]#Ub[i U] Y! d'UW]a Yb]h]g" Mci 'k]'b]ch]VY'dYfa]h]X'hc'Yb]fc''b'U'Ub[i U[Y'Wci fgY'h]Uh]g]hc'YUg]m]Z'f'mci "'Z'h]g] cW]W]fg]Z'mci 'k]'VY'fYei Yg]h]X'hc'W]Ub[Y'mci fYb]fc'a Yb]h]

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

%' F YWc[b]g]Y'VUg]W]gci bXg'UbX'gci bX'Wca V]b]Uh]cb]g]b'? cFYUb &' F YUX'UbX'k f]h] < Ub[Yi 'Uddfcdf]UHY'm ' " GdYU_'k]h' fYUgcb]UV'm]UW]W] fU]h' d'fcb]i b]W]Uh]cb'UbX']b]c]b]U]h]cb'i g]b['g]a d'Y'g]Yb]h]b]W'd'U]h]f]bg k]h]b]h]c]d]W]g'fY'U]h]X'hc'gi f]j]j U!'Yj Y''Ub[i U[Y'i gY (' F YUX'g\c]f]h]Y]h]g'k \]W]Wc'b]h]b]g]a d'Y']b]Z'fa Uh]cb'k]h]b]h]c]d]W]g'fY'U]h]X'hc'gi f]j]j U!'Yj Y''Ub[i U[Y' i gY)" 9I d'U]b'Ugd]Y]W]g'cZ]Yj Yfm]X]Um']Z]f]b'? cFYU]Z]b]Wi X]b['ZcX'Z'd'UW]g'cZ]]g]h]g\c]dd]b['Z]bi a VYfg]Z'Yh]W

HYUW]b['G]h]U]h]]Yg'

F Uh]cb]U'Y

? cFYUb'G]h]X]Yg'Uh] BGK 'dfcj]XYg]gh] XYb]h]k]h' h'Y'c]d]c]f]h] b]h]m]h]c'XYj Y'cd'U'VU'Ub]W'cZ]Wca dY]h]bh ? cFYUb'Ub[i U[Y'g_]g'UbX']b]XYd]h' _bck'YX[Y'UbX'i bXYfg]UbX]b['UVci h? cFYU'"5F HG%* * \$]g'h]Y'j Yfm Z]fg]h]cZ]h]Y'7ci fgYg'h]Uh]U]a 'Uh]UX] Ub]W]b['h'Y'gh] XYb]h]c'U'Zi Ybh]Wca a UbX'cZ]h]Y'? cFYUb'Ub[i U[Y"

5F HG%* * \$f]g'Wc'b]h]b]h]g'XYg][bYX'hc'\Y'd'h]Y'gh] XYb]h]a Y]h]a a YX]U]h]'Ub[i U[Y'b]Y]Xg']b'f]d]fc'Y]W]X]E Yj Yfm]X]Um]g]h] Uh]cb]g]b'? cFYU'UbX'c]f]b]b]h]f]U]W]cb]g'k]h'? cFYUbg]b]'5i g]f]U]U]Z]UbX'hc'Yb]UV'Y'h]Y'gh] XYb]h]b] d]U]h]W'Uf'hc

-]b]fcXi W'h]Ya gY]j Yg'UbX'[fY]h]d]Ycd'Y'Z
- YI W]Ub[Y']b]Z'fa Uh]cb'UVci h]k \YfY'h]Ym]UfY'\YUX]b['Z'f'fUg'd]U]f]h]cZ]h]Y [fY]h]b[g]Z
- cZ]Yf'UbX'Ug_'Z'f'fY]Z]Yg]a Yb]h]Z
- Wci b]h]b'? cFYUb]Z
- h''h'Y'h]a Y'UbX'a U_Y'Uddc]b]h]a Yb]h]Z

5ggYgga Ybh

5ggYgga YbhHUg_g

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
A]X!HYfa 'HYgh	' \$i	⊖'K YY_)	%ž&ž(
DfYgYbhU]cb'	&)i	: f]XUmžK YY_ '%\$	%ž' ž)
:]bU''9I Ua '	()i	: cfa U''9I Ua 'DYf]cX	&ž(ž)

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% 'A]X!HYfa 'HYgh

GhUfhXUH. 'Bch5dd]WVY

@Yb[h. '&\ci fg

8YHJ]`g.

H\Y'A]X!HYfa 'HYghfi bg'Zf'rk c'\ci fg'UbX'Wcbg]gh'cZei Ygh]cbg'cb'dfcbi bWU]cbžj cWUvi 'UfmUbX
[fUa a Uh]W'dUfhYfbg'Ug'k Y''Ug'Wta dfY\Ybg]cb'ei Ygh]cbg'hc'hYghk \Uh\Ug'VYYb''YUfbh'hi g'ZJF"

: YYXVUW_k]''VY'[]j Yb]bX]j]Xi U''m'hYghg\YYhg'k]''VY'fYh fbYX'hc'mci 'k]h'a Uf_g'UbX'Wta a Ybthg"

Hi fb]h]b'gYH]b[. 'H\]g']g'bchU'Hi fb]h]b'Ugg][ba Ybh

5ggYgga Ybh&. 'DfYgYbhU]cb

GhUfhXUH. 'Bch5dd]WVY

@Yb[h. 'Hc'VY'Z]bU'gYX'h'fci [\ 'WUgg'X]gW'gg]cb

8YHJ]`g.

9I dfYgg]b['mci fgY'Z]b'gdYYW'cf'Wcbj YfgU]cb]'b'? cfYUb'VUgYX'cb'hY'gW]dhdfYdUFYX''H\Y'dfYgYbhU]cb
k]''VY'Z]a YX'UbX'gi Va]hYX'Y'YWfcb]WU'm'H\Y'hc'd]Wgžk \]W'g'ci 'X'VY'fY'Yj Ubh'hc'hY'7'ci fgYž'hY'a cXYž
k \Y'hYf'gdYYW'cf'Wcbj YfgU]cbž'UbX'fi bb]b['h]a Y'cZ'hY'j]X'Ycžk \]W'g'ci 'X'bchVY'a cfY'h'Ub
)'a]bi h'g']b'WUgY'cZgdYYW'UbX'%'\$'a]bi h'g']b'WUgY'cZ'Wcbj YfgU]cbž'UFY'hc'VY'Z]bU']gYX'h'fci [\ 'WUgg
X]gW'gg]cb"

⊖X]j]Xi U''ZYXVUW_/a Uf_g'UbX'Wta a Ybthg'k]''VY'Ya U]YX'hc'mci "

Hi fb]h]b'gYH]b[. 'H\]g']g'bchU'Hi fb]h]b'Ugg][ba Ybh

5ggYgga Ybh' . :]bU''9I Ua

5df]

		7 cbj YfgUhc
	Hi hcf]U`	DfUW]W`k cfXg`UbX`dUhtYfbg`]b`l` b]h+`Wcb]bi YX"
	Hi hcf]U`	DfUW]W`k cfXg`UbX`dUhtYfbg`]b`l` b]h, "
K YY_- . %& 5df]`!`%* 5df]	@YWh fy	HU_]b[`UVci hZ` h`fy`d`Ubg""9l dfYgg]b[`k`UbhgZ`]bWdUV`]m]UbX`Wcb]Ugrg"l`g]b[`XYgW]d]cb]j YfVg" l`b]h-`7 cbj YfgUhc
	Hi hcf]U`	DfUW]W`k cfXg`UbX`dUhtYfbg`]b`l` b]h, \$

g

'F Ygci fWg'

-G\]bž; 'UbX'5'6i nc'k]h '>MUb['UbX'7'?]a "'f&\$&\$E"'=adMS` ['3Uf[a` , 4aa] #'K YV
b"

ca '=adMS` ['3Uf[a` , 4aa] #'K YV'9X]hcb'UbX'hY'gci bX'Z'Yg'UfY'Uj U]UV'YžZ'YY'cZWUf[Yž
Ybtg:]b'5F HG%* '\$j]U'A ccX'Y"

hYa [c'hc'hY'f#YI hVcc_'a UHyf]U'gfZc'XYf'cb'mci f'A ccX'Y'dU[Y'UbX'W]W_'YUW'cZH'Y'Z'Yg"
dUfng'cZH'Y'HYI hVcc_'9I d'UbU]cbg'UbX'K cf_Vcc_žYUW'cZk \]W'W'bg]gh'cZ%'i b]hg
YbYX'UbX'df]bHY'Vm5WcVUhF YUXYf" H\YmUfY]DUXg'UbX'5bXfc]X'HUV'Yhg'Z]YbX'mf
['Gci bX'Z'Yg'UfY'Zc'f'hY'9I d'UbU]cbg'dUf'hc'b'nž'cf[Ub]gYX']bhc'%'\$'ddh' Z'Ygžk \]W'W'Wb'VY
\$'Dck YfDc]bH"

WYX'hc'df]bhici h'mci f'ck b'W'c'mcZH'Y'HYI hVcc_'UbX'hc'i gY'hY'gci bX'Z'Yg'Zc'f'ghY'b]b['UbX
dfUW]W'Zc'f'U'a]b]a i a'cZ'hc'c'\ci fg'dYf'k YY_"

h Uh'hYmUfY'U' W'c'dmf][\hYX'a UHyf]U'g"8c'bchX]ghf]Vi hY'UbmcZH'Ya 'k]h'ci h8f';]
k f]hY'b'W'c'bgYbH"

XYX'F Ygci fWg'

i>UY'>i b['Gcb["'f&\$&\$) E"'FZW=adMS` >S` YgSYW E fdgUfgdW GeWS` V 5a` fWj fž@cbXcb.
X[Y"

Y'='C b!]bY'"GY'čb['? cfYUb'"Vm?]b['GY'čb['bgh]h hYžGYci 'ž? cfYU"

Gi Va]gg]cb 'cZ5ggYgga YbhiHUg_g

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

Ẓmci 'YbWci bhYf'U'dfcV'Ya 'k \Yb'UH'Ya dh]b['hc'gi Va]hmc i f'Ugg][ba YbhiH'fci [\ 'Hi fb]h]bž'd'YUgY
H'Yd\cbY'9I H'fbU'Gi ddcfh'cb'-',) " ' ' %cf'Ya U] 'H'Ya 'cb'YI H'fbU'H'f'gi ddcfh' i bgk "YXi "Ui "'Gi ddcfh
\ci fg'UfY', .\$\$Ua '—%\$.\$\$da 'cb'k YY_XUmg'UbX'-. \$\$Ua '—) .\$\$da 'cb'k YY_YbXg'f'*) 'XUmg'U'm'YUf'Ẓmci
UfY'i bUV'Y'hc'gi Va]hmc i f'Ugg][ba YbhiXi Y'hc'U'Zi 'hk]H'Hi fb]h]b'mci 'a UmiUdd'm'Z'f'Ub'YI H'bg]cbž'Vi hmc i
a i gh'f'Y'U]b'mci f'h]W_Yhbi a VYf'Z'ca '9I H'fbU'Gi ddcfh'f'U'cb['k]H'U'bm'ch'Y'f'f'Y'j UbhXcW a Yb'fg'k'hc
]bWi XY'Ug'Yj]XYbV'hc'gi ddcfh'mci f'YI H'bg]cb'Udd'j]W]h]cb"Ẓmci 'Ya U]'9I H'fbU'Gi ddcfh'mci 'k]`
Ui 'hca U]h]W'`m'f'Y'W]j Y'U'h]W_Yhbi a VYf'ž'Vi h]Zmci 'H'Yd\cb'Y'mci 'k]` i 'c W'Z'W'`m'fg_g cf'UbY'"

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]]hYg'Ug'U'gh XYbhUhl BGK
-

5 WUXYa]WbZcfa Uh]cb

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

- fYei Ygth]Zcf`YI H`bg]cb/
- `UhY`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]cbž`gYY