



MDIA5004

A YX]U'UbX'Di V`]WF Y`Uh]cbg

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

GWXcc`cZHAY`5ftg'UbX`A YX]U`#`I BGK `5ftg'UbX`GcWJU`GwYbWg

7 ci fgY`Cj Yfj JYk

GHJZZ7cbHJW`8YHU]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]UV]`]m	@cWJhcb	D\cbY
A J\UY`?Ybh	n') &(\$-) 4 i bgk "YXi "Ui	C Z]W` \ci fg`k]`VY gYhk]h` ghi XYbtg"	B 5	B 5

G\Xcc``7cbHJW`bZcfa Uh]cb

G\Xcc``cZH`Y`5fmg`UbX`A`YX]U

F cca `` %&ž@Y] Y`` žF cVYfhK YVghYf`6i]X]b[`f] %(` Ł

D\cbY.`f\$&Ł-` ,) `(,) *

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

K YVg]hY: [k.k.k "Ufmg"i bgk "YXi "Ui #gUa](#)

H\Y`G\Xcc``cZH`Y`5fmg`UbX`A`YX]U`k ci `X``_Y`hc`F`YgdYWZ` ``mi5W_bck`YX[`Y`h`Y`HfUX]h]cbU``7 i ghcX]Ubgž
h`Y`6YXY[`U``fP`Ybg]b[`hcb`WJa`di`gŁž;`UX][`U``f7`]mUbX`5fiv`8Yg][`b`7`Ua`di`gYgŁ`UbX`h`Y`B`[`i`bbUk`U`
dYcd`Y`f5i`ghfU]Ub`8YZYbVW`:`cfW`5WUXYa`m]b`7`UbVYffUŁ`cZH`Y`UbXg`k`YFY`YUWX`WJa`di`g`cZI`BGK`]g`
`cWJhYX"

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`*`

Gi a a UfmicZhY'7ci fgY

H\]g`Wci fgY`]bhfci Xi W`g`gh XYbHg`hc`di V`]WfY`Uh]cbg`k f]h]b[`UbX`a UbU[Ya YbhUbX`XYj Y`cdg`hY]f
i bXYfgHUbX]b[`cZdi V`]WfY`Uh]cbg`]b`hY`5i ghfU`]Ub`a YX]U`Ybj]fcb a Ybh`Gh XYbHg`k]`YUfb`hY`VUg]Wg`cZ
k f]h]b[`U`a YX]U`fY`YUgYz`a UbU[]b[`U`dfYgg`WcbZYfbW`UbX`XYU`]b[`k]h`a YX]U`Ybei]f]Yg`H\Y`k f]h]b[
Wc`a dcbYbhicZhY`Wci fgY`k]`]bWi XY`k f]h]b[`Zcf`hY`]bhYfbYh`gdYYWXYg`z`di V`]W]h]cbg`z`Wla dU][bg`z`fYdc`fHg
UbX`W]g]g`Wc`a a i b]W]h]cbg`"5g`k Y`Ug`YUfb]b[`hc`k f]h]U`Wfcgg`U`fUb[Y`cZ[YbfYg`z`gh XYbHg`k]`YUfb`hc
k f]h]Zcf`U`gY`YWYX`Ui X]YbW`"H\]g`Wci fgY`k]`U`gc`Wc] Yf`hY`k Umg`h`UhbYk`a YX]U`hY`Wbc`c[]Yg
]bZi YbW`a YX]U`UbX`di V`]WfY`Uh]cbg`"Gh XYbHg`k]`VY`hUi [\h`hY`Wb]ei Yg`Zcf`i g]b[`hY`gY`hY`Wbc`c[]Yg`Zcf
a YX]U`UbX`di V`]WfY`Uh]cbg`di fdcgYg`"Gh XYbHg`k]`U`gc`YUfb`hY`dfcZYgg]cbU`Wcbj Ybh]cbg`UbX`Yb[U[Y
k]h`hY`Yh]W`UbX`Y[U`]ggi Yg`UggcW]U`hY`X`k]h`di V`]WfY`Uh]cbg`"

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

%`K f]h]U`dfYgg`fY`YUgY`UbX`U`Y`hY`f`hc`hY`YX]hc`#`d]b]cb`d]YW`
&`C f[Ub]gY`U`a YX]U`WcbZYfbW`
'`"8Yj Y`cd`UbX`]a d`Ya YbhU`a YX]U`fY`Uh]cbg`Wla dU][b`k`cf_]b[`]b`U`[fci`d
(`"K f]h]`a YX]U`a U`hY]U`g`Zcf`U`a YX]U`fY`Uh]cbg`Wla dU][b
)`"8Ya cbghfU`h`Ub`i bXYfgHUbX]b[`cZ`h`Y`cfYh]W`Z`Ua Yk`cf`g`fY`Yj Ubh`hc`a YX]U`UbX`di V`]WfY`Uh]cbg`"

HYUWX]b[`GhfU`h[]Yg`

H\]g`Wci fgY`k]`VY`hUi [\h`ZUW`hc`ZUW`]b`U`Y`W`h`fY`h`Y`U`fY`Y`bj]fcb a YbhVi h`h`Y`fY`k]`VY`U`g`h`f`cb[
Ya d`U`g]g`cb`YbWci fU[]b[`gh XYbh`d`U`h]W]d`U`h]cb`]b`hY`dfcW`gg`cZ`YUfb]b[""Gh XYbHg`k]`VY`U`W]j Y`m
Yb[U[YX`]b`gc`]b[`dfcV`Ya`g`dcgYX`Vm`h`Y`Y`W`h`fY`"Gh XYbh`YUfb]b[`k]`VY`Yb`UbW`X`Vm`h`Y`i`gY`cZ`WU`gY
gh X]Yg`UbX`Vm[fci`d`k`cf_]b`k`W`gh XYbHg`k]`VY`U`g`YX`hc`dfcXi W`a YX]U`UbX`di V`]WfY`Uh]cbg`
a U`hY]U`g`UbX`Wla dU][bg`Zcf`U`fY`U`W]Ybh`"

H\Y`WcbhYbhicZh]g`Wci fgY`UbX`]hg`hYUWX]b[`UddfcUWX`]g`XYg][bYX`hc`YbUV`Y`gh XYbHg`hc`XYj Y`cd`d`U`h]W`U`f
Wc`a a i b]W]h]cbg`g_]`g`h`U`h`k]`Yb`UbW`h`Y`f`dfU`W]W`UbX`k`cf_]b`h`Y`Z]Y`X`c`Za YX]U`UbX`di V`]WfY`Uh]cbg`"
h`fY`ZY`W`g`a`m`dcg]h]cb`h`U`h`h`Y`f`dfU`W]W`k`]h`]b`h`Y`Z]Y`X`k]`fY`ei]fY`UXj UbW`X`Yj Y`g`cZ`Wc`a a i b]W]h]cb`hc
YbUV`Y`cb[c]b[`XYj Y`cda Ybh`"

5ggYgga Ybh

5ggYgga YbhHUg_g`

5ggYgga YbhHUg_	K Y][\h	8i Y`8UHŸ	Gh XYbh@YUfb]b[Ci hWta Yg`5ggYggYX
@YHŸf`hc`h`Y`9X]hcfcfc Cd]b]cb`D]YVW`	')	&*#`\$`#&\$\$`\$`\$`.((`DA	%ž)
A YX]U`d`Ub`Zcf`Bcb!DfcZ]h C f[Ub]gU]cb`	' \$	%+`#`\$`+`#&\$\$`\$`\$`.(+ `DA	&ž ž)
A YX]U`F`Y`YUgY`	')	\$+`#`\$, `#&\$\$`\$`\$`\$`.(, `DA	(ž)

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh%`@YHŸf`hc`h`Y`9X]hcfcfc`Cd]b]cb`D]YVW`

GHŸfhXUHŸ. `Bch5dd`]WVY`

@Yb[h. `GYY`gm`UVi`g`

8YHJ]`g.

@YHŸf`hc`h`Y`YX]hcfcf&\$\$`k`cfXgŁ`Ž`fU]cbU`Y`f) \$!\$, \$`k`cfXgŁ`C`F`cd]b]cb`d]YVW`f) \$`k`cfXgŁ`Ž`fU]cbU`Y`f) \$!\$, \$`k`cfXgŁ`

K`f]hŸb`ZYXVUW`_k`j`VY`dfcj`jYX`VmiŸUW]b[`ghUZ`

Gi Va]gg]cb`bcH]g.GYY`gm`UVi`g`Zcf`XYHJ]`g`

5ggYgga Ybh&.`A YX]U`d`Ub`Zcf`Bcb!DfcZ]hC`f[Ub]gU]cb`

GHŸfhXUHŸ. `

8YHJ]`g.

; fci`d`5ggYgga`Ybh`A`YX]U`D`Ub`Zcf`Bcb!DfcZ]hC`f[Ub]gU]cb`f) \$!\$, \$`k`cfXgŁ`; fci`dg`k`j`hmd]W]`mWcb]g]ghcZ`
`hc`) `gh`XYbhg`H\]g]g`h`Y`Z]bU`UggYgga`YbhHUg_`

K`f]hŸb`ZYXVUW`_k`j`VY`dfcj`jYX`VmiŸUW]b[`ghUZ`

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

GYY`gm`UVi`g`Zcf`XYHJ]`g`

5ggYgga Ybh`. `A YX]U`F`Y`YUgY`

GHŸfhXUHŸ. `

8YHJ]g.

A YX]U`fY`YUgY`fI \$\$`k cfXgŁ`Z`fU]cbU`Y`fI) \$\$!, \$\$`k cfXgŁ"

K f]hYb`ZYXVUW`k]`VY`dfcj]XYX`VmH`UW]b[`ghUZ'

5XX]h]cbU`XYHJ]g.

GYY`gm`UVi g`Zcf`XYHJ]g"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

GY`h`Y`gm`UVi g`cb`A ccX`Y`Zcf`Wca d`Yh`XYHJ]`g"

F YWca a YbXYX`F Ygci fWg

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

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]hirci f'Ugg][ba Ybhi'fci [\ 'Hi fb]h]bž'd'YUgY
HY'Yd\cbY'9I HYfbU'Gi ddcfhcb'- ' ,) " ' ' %cf'Ya U] 'h'Ya 'cb'YI HYfbU'HY'hgi ddcfh i bgk "YXi "Ui "'Gi ddcfh

5 WUXYa]W< cbYgmiUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`cfXg`cf`]XYUg`cZc`h`Yfg`UbX`d`fYgYbh]b[`h`Ya`Ug`mci`f`ck`b``#WUb`hU`_`Y`a`Ubm`
Zcfa`gZ`Zca`X`Y`]VYfU`h`V`X`Y`U`h]b[`h`c`U`W`W`X`Y`b`h`U`m`i`W`c`d`m]b[`Z`ca`U`g`ci`f`W`k`]h`ci`h`U`W`_`b`c`k`Y`X[`Ya`Y`b`h`

I`B`G`K` `[`f`ci`d`g`d`U[]Uf]ga `]b`h`c`h`Y`Z`c``c`k`]b[`W`U`h`Y`[`c`f]Y`g.

7`c`d`m]b[`.`i`g]b[`h`Y`g`U`a`Y`c`f`j`Y`f`m`g]a`]U`f`k`c`f`X`g`h`c`h`Y`c`f][`]b`U`h`Y`h`c`f`]X`Y`U`k`]h`ci`h`U`W`_`b`c`k`Y`X[]b[`h`Y`

- 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`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]W'g'UbX'j]bZcfa 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 ""

[\hfd.##ji V'YW'i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

