

IEST5003

5XXfYgg]b['9bj]fcb a YbhU`'ggi Yg. 'DUH\k Umg'hc '7 \Ub[Y!
A U_]b[

HYfa 'H\fYY`##'&\$&\$



GWXcc``cZ< i a Ub]hYg'UbX'@Ub[i U[Yg``# 'I BGK ``5ftg'UbX'GcWU``GWYbWg

7ci fgY`Cj Yfj]Yk

GhJZZ'7cbhJWw'8YhU]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]'UV]'m	@cW]hcb	D\cbY
@Ji fU`A W@Ji W\`Ub	`Ui fU"a WUi W\`Ub4 i bgk "YXi "Ui	VmfYei Ygh	A cfj Yb`6fck b &* -	d`YugY`i gY Ya U]`

GWcc``7cbhJWw'Zcfa Uh]cb

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

@cW]hcb. 'GWcc``C Z]WZ`A cfj Yb`6fck b`6i]X]b[ž@Yj Y``&ž&),

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D\cbY. `ž*%&`-' ,) `)%*, %

: U! . `ž*%&`-' ,) ; , +\$)

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

7ci fgY'8YHJ]`g

7fYX]hDc]bHg`*`

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

h`h]g`Vci fgYz`mci `k`j`cc_`Uh`ck`mci `WUb`Udd`mi`h`Y`Z`Ua`Yk`cf`g`UbX`]bg][`hg`mci`Uj`Y`[`U]bYX`]b`mci`f`dcg]`fUXi`UH`Ybj`]fcb`a`Ybh`UbX`gc`WY`h`migh`X]Yg`h`h`Y`Ybj`]fcb`a`Ybh`U`]ggi`Yg`mci`WfY`UVci`ha`cgh`H`Y`Vci`fgY`i`gYg`Ub`]bhYfX]gW]d`]bUfmUddfcUWX`]b`k`V`mci`UFY`Yb`Vci`fU[`YX`h`UH`Y`bX`h`h`Y`Vci`a`d`Yi`]micZ`Ybj`]fcb`a`Ybh`U`]ggi`Yg`UbX`h`X`Yj`Y`cd`Y`ZY`W]j`Y`dfcdcgU`g`Z`f`UW]cb`"K`V`Y`h`Y`Vci`fgY`h`i`W`Yg`cb`U`k`]XY`fUb[`Y`cZ`Z`Ua`Yk`cf`g`]b]fcb`Xi`W`X`h`fci`[`ci`h`mci`f`dfY`W`X]b[`Vci`fgYg`z`mci`k`j`XYj`Y`cd`gYj`YfU`]b[`fYUH`f`XYd`h`]b`fYgdc`bgY`h`mci`f`]bhY`fYg`h]`UbX`Z`h`fY`WfY`Yf`UbX`fYgY`Uf`V`d`Ub`g`"Mci`k`j`Y`Ufb`UVci`h`h`Y`b`U`h`fY`cZ`UbX`b`Y`Y`X`Z`f`a`i`h]`cf`h`f`Ub`g!`X]gW]d`]bUfmUddfcUWX`Yg`h`U`X`X`f`Y`gg]b[`Ybj`]fcb`a`Ybh`UbX`gc`WY`h`mid`fc`V`Ya`g`cZ`c`W]z`b`U`h]cb`U`z`UbX`#`f`[`c`V`U`]j`a`d`cf`h`Ub`W`"Mci`k`j`V`Y`gi`d`d`cf`h`Y`X`h`Yi`d`cf`Y`W`U`g`Y`gh`X]Yg`UbX`UddfcUWX`Yg`h`U`h`mci`]bhY`bX`h`Yb[`U[`Y`]b`mci`f`V`X`Ub[`Y!`a`U_]b[`UbX`Y`U`X`Y`fg`d`k`cf`_`U`Z`Y`f`mci`Z]b]g`V`mci`f`Vci`fgYk`cf`_`

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

%`8`Ya`cbg]f`UH`Y`Ub`UXj`Ub`W`X`i`b`XY`fg]h`UbX]b[`c`Z`h`Y`Y`b`h`Ub[`Ya`Y`bh]g`c`Z`W`h`f`U`z`dc`]h]W]!`Y`Vci`bca`]V`Z`UbX`h`Y`Vci`b]W]Z`U`Vci`fg`]b`Y`bj`]fcb`a`Ybh`U`]ggi`Yg`
&`G`mb`h`Y`g]gY`UbX`i`gY`h`Y`c`f`Y`h]W]UddfcUWX`Yg`h`Yj`U`i`UH`Y`h`Y`Y`ZY`W]j`Yb`Y`gg`c`Z`Vci`b`h`Ya`d`cf`U`fm`d`f`U`W]W]g`c`ZY`bj`]fcb`a`Ybh`U`]Y`U`X`Y`fg`d`z`a`UbU[`Ya`Y`bh`UbX`W`X`Ub[`Y!`a`U_]b[`
'`" `9i`V]h]W]d`UV`]m]Z`f`]b`XY`d`Y`b`X`Y`bh`UbX`Vci`UV`cf`U`h]j`Y`]bei`]fm]b`h`f`Y`U`k`cf`X`Y`bj`]fcb`a`Ybh`U`]ggi`Yg`
(`" `8`Ya`cbg]f`UH`Y`ZY`W]j`Y`j`Y`f`V`U`UbX`#`f`k`f]h]b`Vci`a`a`i`b]W]h]cb`h`U`X]j`Y`fgY`f`Ub[`Y`c`Z`U`i`X]Y`b`W]g`
)`" `8`Ya`cbg]f`UH`Y`Ub`i`b`XY`fg]h`UbX]b[`c`Z`UbX`h`Y`UV`]m]h`Udd`m`z`f`Y`ZYi`]j`Y`UbX`f`Y`g`d`c`bg]V`Y`d`f`U`W]W]g`c`Z`
↑`gh`UbX`Vci`UV`cf`U`h]j`Y`Y`U`X`Y`fg`d`]b`Y`bj`]fcb`a`Ybh`UbX`gc`W]Y`h`m`

HYUWX]b[`G`h`f`UH`Y`[`]Yg`

H`h]g`Vci`fgY`i`gYg`V`ch`]b!`W`U`gg`X]g`W`gg]cbg]`UbX`Y`W]h`f`Yg`z`Vci`a`d`Ya`Y`bh`Y`X`V`m`cb!]b`Y`Yi`W`X`Ub[`Y`c`Z]X`Y`U`g`j`]U`

5ggYgga Ybh

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5ggYgga YbhHUg_	K Y][\h	8i Y'8UHŸ	Gh XYbh@YUfb]b[Ci hŸa Yg'5ggYggYX
K YY_`mF YZYW]cbg`	' \$i	Bch5dd`]WUVY	%ž&ž
7 UgY`Gh XmDfYgYbhU]cb`	&\$i	% #/\$#&\$&\$ \$*.\$\$\$'DA	' ž(
:]bU`F Ydcfh) \$i	&(#/\$#&\$&\$ \$*.\$\$\$'DA	%ž&ž ž)

5ggYgga Ybh8YHU]`g

5ggYgga Ybh%`K YY_`mF YZYW]cbg`

GHUfhXUHŸ. `Bch5dd`]WUVY

8YHU]`g.

K YY_`mg\cfhk f]hYb`gi a a Uf]Yg`ZcfX]ghUbwW`UbX`cb!WJa di g`gh XYbhžk]h`g\cfhcb`]bY`ZYXVUW_`[]j Ybž Zcf`-`k YY_g`r &) \$`k cfXg`dYf`k YY_`"

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

H\fc] [\ci hŸY`Wci fgYžmci `k]`dfcXi W`g\cfhFYZYW]cbg`U]a YX`hc`XYdYb`mci f`Yb[U[Ya Ybhk]h`k \Uh mci `Uj Y`YUfbYX`]b`hY`A 9A `UbX`hc`YbWci fU[Y`mci `hc`XYj Y`cd`mci f`WYU]j]mUbX`g_]``]b`Udd`m]b[`mci f`YUfb]b[g`hc`fYU`]Z]g]h`U]cbg`"Mci `k]`dcghmci f`fYZYW]cbg`cb`A ccX`Y`YUW`k YY_`hY`XUmVY`Zcf`WUgg`"

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

5ggYgga Ybh&.`7 UgY`Gh XmDfYgYbhU]cb`

GHUfhXUHŸ. `

8YHU]`g.

' \$`a]bg`WUgg`dfYgYbhU]cb`cf`ZcfX]ghUbwW`cbY`k YY_`YUX]b[`Ub`cb`]bY`Zcfi a ""K f]hYb`[fci d`ZYXVUW_`k]` VY`[]j Yb`"

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

H\]g`Ugg][ba Ybhk]`YbWci fU[Y`mci `hc`i gY`hY`a cghfY`Yj UbhZUa Yk cf_g`Zca`hY`dfc[fUa`hc`UbU`mgY UbX`Yi d`]b`Ybj]fcb`a YbhU`]gg] Y`mci `UFY`dUgg]cbUHŸ`UVci h`Mci f`[fci d`k]`WkccgY`cbY`cf`hk`c`fYUX]b[g`cf`_YmWcbWd]g`hUhmci `Uj Y`fYU`m`c] YX`Zca`mci f`h]a Y`]b`hY`A 9A ""Mci `k]`hYb`Udd`m]h]hc`U dUfh]W`Uf`Ybj]fcb`a YbhU`]gg] Y`hc`g\ck`Zcfi g`\ck`]h]a U_Yg`hU]gg] Y`fYU`mWca`Y`hc`]Z]`-`b`mci f`dfYgYbhU]cbž`mci `k]`hYUW`i g`hY`_YmY`Ya Ybhg`cZmci f`hYcfm`#fYUX]b[#fUa`Yk`cf`_`UbX`fYZYW]cb`k \Uh]h

\Y`dYX'mci 'hc'gYY'jb'mci f'WUgY'ghi Xm'

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

5ggYgga Ybh' . :]bU'F Ydcfh

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Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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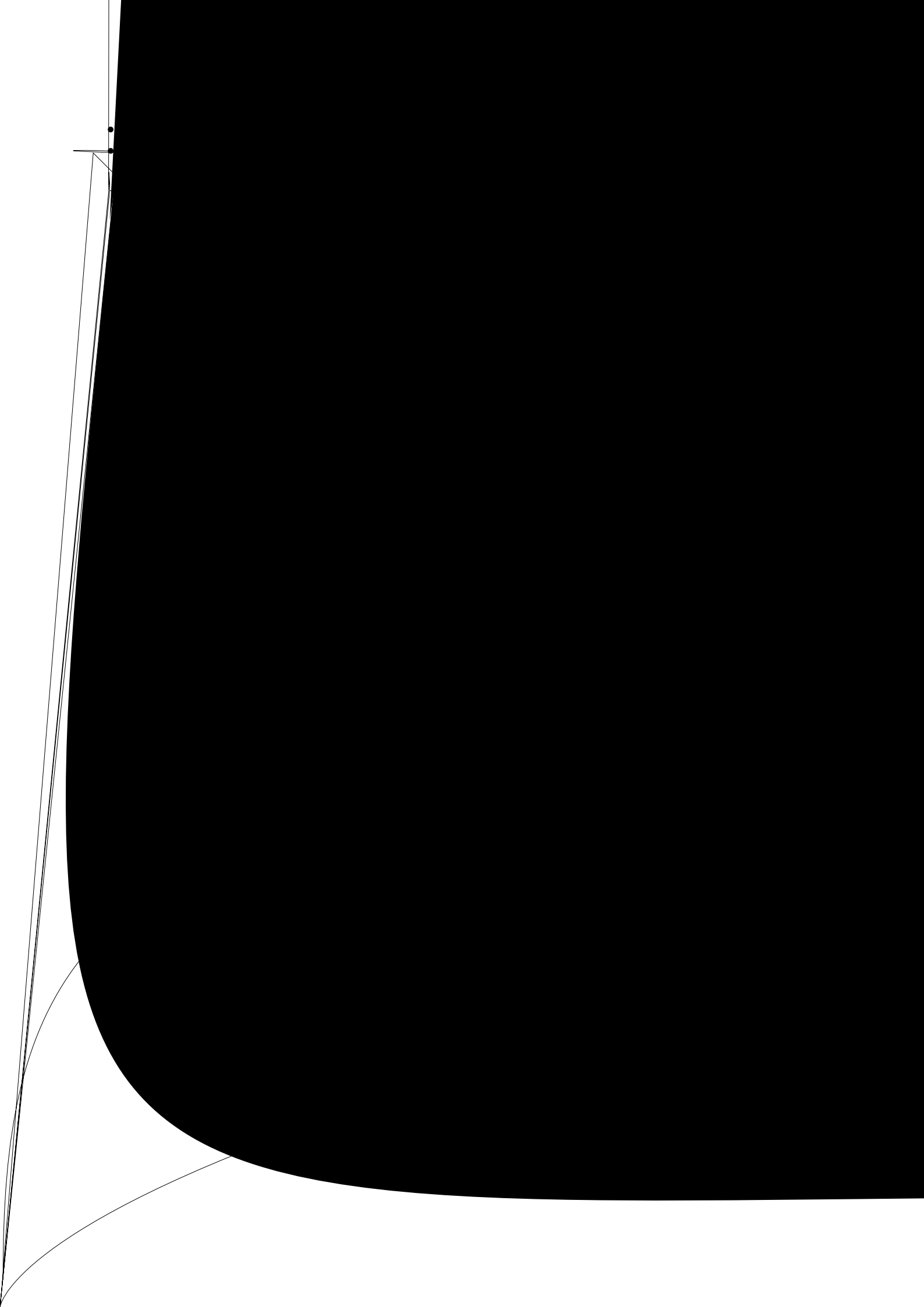
≠Zmci`YbWci`bHYf`U`dfcV`Ya`k`\\Yb`UHfYa`dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiHfci`[`\`Hi`fb]h]bzd`YUgY`
HY`Yd\cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``'``%cf`Ya`Uj`HfYa`icb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`""Gi`ddcfh`
\\ci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`icb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`icb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`≠Zmci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhiXi`Y`hc`U`Zji`hk`]H`Hi`fb]h]b`mci`a`UmUdd`mZc`f`Ub`YI`HYbg]cbz`Vi`hmc`i`
a`i`ghfYhU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhU`cb[`k`]H`Ubmc`h`Yf`fY`Yj`UbhXcW`a`YbHgk`hc`
]bWi`XY`Ug`Yj`]XYbVW`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W]h]cb`≠Zmci`Ya`Uj`9I`HYfbU`Gi`ddcfhmc`i`k`j`
Ui`hca`U]WU`m`fYW]j`Y`U`h]W`Yhbi`a`VYfz`Vi`h]Zmci`HY`Yd\cbY`mci`k`j`bYYX`hc`gdYW]Z]WU`mUg`Zc`f`cbY`
Hi`fb]h]b`U`gc`dfcj`]XYg`i`dXUH`g`cb`h`Y]f`gmghYa`ghU`h`g`cb`Hk`]HYf`"

;`YbYfU`mz`UggYgga`YbhiUg_g`a`i`ghVY`gi`Va`]HYX`Y`YWfcb]WU`mj`]U`Y]HfYf`Hi`fb]h]b`cf`U`A`ccX`Y`
Ugg][`ba`Ybhi`b`]bg]h]UbVW`g`k`\\YfY`h`g`]g`bchidcgg]V`Yz`]hk`j`VY`ghUHYX`cb`mci`f`Wci`fgY`g`A`ccX`Y`g]HY`k`]H`
U`HYfbU]h]`Y`gi`Va`]gg]cb`XYhU]g`"

:`cf`]bZcfa`Uh]cb`cb`\\ck`hc`gi`Va`]hUgg][`ba`YbHg]cb`]bY`j`]U`A`ccX`Y`.\`hdg`#gh`XYbhi`bgk`"YXi`"Ui`b`.\`

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`



5 WUXYa]W=Zcfa Uh]cb