



# SOCF5110

DfcZYgg]cbU`DfUWjVW`F YgYUfVX`Dfc`YVh

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



GWXcc`cZGcWJU`GWYbWg`#`I BGK`5ffg`UbX`GcWU`GWYbWg

7 ci fgY`Cj Yfj JYk

`GHUZZ7cbhUW`i8YHJ]`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWUjcb	D\cbY
A Ui fYYb`A UW ]b`Ym	a Ui fYYb"a UW ]b`Ym# i bgk "YXi "Ui	K YXbYgXUmg`- Ua `!%da `cf`VmUddc]bha Ybh	A cfj Yb`6fck b ; %(`	\$&- ' , ) , -- ,

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F cca `%) -

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

7ci fgY'8YHJ)`g

7fYX]hDc]bhtg`\*`

Gi a a UfmicZ\hY'7ci fgY

GcWU`K cf\_

H\]g`jg`U`%&`i` C 7`DfcZYgg]cbU`DfUW]W`F`YgYUfW`Dfc`YWhWci`fgY`"Mci`k`]"`Ybfc`"b`U`\*`i`cWwci`fgY`]b`  
YUW`cZtk`c`gi`WYgg]`Y`h`fa`g`k`]h`U`fYgi`h`fYdcfYX`VmU`g]b[`Y`[`fUXY`Uh`h`Y`YbX`cZ\hY`gYwcbX`\*`i`cW`  
Wci`fgY`" `b`h\]g`Wci`fgY`zGC`7`:`)%%\$`DfcZYgg]cbU`DfUW]W`F`YgYUfW`Dfc`YWhWci`k`]"`Wca`a`YbW`UbX`k`cf`\_`  
hck`UfXg`Ub`]bXYdYbXYbhfYgYUfW`d`fc`YWhk`]h`U`hcd]WX]fYWhimfY`UH`X`h`c`mci`f`d`fc`ZYgg]cbU`d`fUW]W`  
\_bck`YX[`Y`]b`7`ci`bgY`"b[`GcWU`K`cf\_`z`7`ci`d`Y`UbX`:`Ua`]mH\YfUdmz`cf`GcWU`8Yj`Y`cda`YbH`Hcd]W`  
Uddfcj`U`]g`fYei`]fYX`Vm`h`Y`fY`Yj`UbhA`Ugh`fg`7`ci`fgYk`cf`\_`Dfc[`fUa`7`ccfX]bUhc`f`"Dfc`YWhfYdcf`h`k`cfX`  
Yb[`h`]g`%&z\$`\$`\$`!%`z\$`\$`\$`k`cfXg`z`UbX`j`Uf]U]cb`k`]h`]b`h`]g`fUb[`Y`]g`h`c`VY`bY[`ch]UH`X`k`]h`h`Y`Gi`dYfj`]gcf`  
UWwcfX]b[`h`h`Y`gdYW]Z]WfYei`]fYa`Ybhtg`cZ\hY`fYgYUfW`d`fc`YWhUbX`]htg`a`Yh`cX`c`c[`m`

BchY.`5dd`]W]h]cb`Zcfa`g`h`c`i`bXYfU`\_Y`h\]g`Wci`fgY`UfY`Uj`U]UV`Y`Zca`h`h`Y`fY`Yj`UbhDfc[`fUa`7`ccfX]bUhc`f`  
UbX`a`i`ghVY`cX[`YX`Zc`f`Wcbg]XYfU]cb`Vm`h`Y`YbX`cZ\hY`h`UW]b[`dYf]cX`d`fYW`X]b[`h`Y`ghUfhcZ\hY`  
fYgYUfW`d`fc`YWh`

7ci fgY`@YUfb]b[`C`i`hWca`Yg

- %`8Yj[`b`z`XYj`Y`cd`z`UbX`fYdcf`h`c`b`U`fYgYUfW`d`fc`YWhfY`UH`X`h`c`gcWU`k`cf`\_`UbX`#`f`Wci`bgY`"b[`  
h`Ycfmcf`d`fUW]W`"
- &`F`Yj`]Yk`h`h`Y`"h`fUhi`fY`cb`U`fYgYUfW`h`cd]WfY`UH`X`h`c`gcWU`k`cf`\_`UbX`#`f`Wci`bgY`"b[`h`Ycfmcf`  
d`fUW]W`"
- `" `8Ya`cbgh`fU`\_bck`YX[`Y`UbX`i`bXYfgh]UbX]b[`cZU`Wc`fY`UfYU`cZgcWU`k`cf`\_`UbX`#`f`Wci`bgY`"b[`  
h`YcfmUbX`d`fUW]W`"

HYUW]b[`G`h`fU`h`[`]Yg`

b`h\]g`Z]bU`dcgh[`fUXi`UH`Wci`fgY`z`mci`UfY`Yi`dYW`X`h`c`i`bXYfU`\_Y`]bXYdYbXYbhfYgYUfW`]b`h`Y`Wca`d`Yh]cb`  
cZmci`f`d`fc`YWh`5W]X`Ya`]Wgi`dYfj`]g]cb`k`]"`d`fcj`]XY`Ub`Ybj`]fcb`a`YbhZc`f`gh`XYbhWcbgi`h`U]cb`]b`h`Y`  
d`Ubb]b[`UbX`Wca`d`Yh]cb`cZ\hY`d`fc`YWh`b`Wca`d`Yh]b[`h\]g`Wci`fgY`h`YfY`]g`Ub`Yi`dYW]U]h]cb`h`Uhmci`k`]"`i`gY`  
Ub`UbU`m]W]UddfcUW`h`c`mci`f`k`cf`z`UbX`g`l`ck`h`h`Y`UV`]m]h`c`Udd`m]h`YcfmUbX`h`c`h`]b`\_`W]h]W]m`9j`]XYbW`  
cZ\h]g`a`i`ghVY`d`fcj`]YX`]b`h`Y`Z]bU`d`fc`YWhfYdcf`z`k`]W]g`d`fcXi`W`X`Uh`h`Y`fY`Yj`UbhXi`Y`XUH`]b`h`Y`  
Wci`fgY`GC`7`:`)%%`DfcZYgg]cbU`DfUW]W`F`YgYUfW`Dfc`YWh`6`f`h`Y`UggcW]UH`X`Wci`fgY`h`h\]g`Wci`fgY`E`"Mci`  
UfY`fYgdc]b]V`Y`Zc`f`h`Y`dUW`UbX`d`fc[`fYgg`cZ\hY`]f`fYgYUfW`z`UbX`Zc`f`U]g]b[`k`]h`h`Y`Gi`dYfj`]gcf`UbX`#`f`  
7`ccfX]bUhc`f`UbmW]U`Yb[`Yg`c`f`X]Z]W`h`Yg`k`]h`mci`f`YUfb]b[`"Gi`dYfj`]g]cb`k`]"`VY`gdUW]X`c]Y`f`h`Y`  
gYa`Ygh`f`z`k`]h`cddc`f`h`]h]Yg`Zc`f`d`fc[`fYgg]`Y`ZYXVUW`\_`UbX`bY[`ch]UH`X`a`]Yg`h`c`bY`hUg`g`"



H\Y'ZYXVUW\_g\YYhg#i Vf]Wg'k ]''VY'Uj U]UV'Y'hc'gh XYbhg'Uh'kY'ghUfhcZ'hY'W'ci fgY'gc'h'Uh'kYm'W'Ub'k'cf\_ h'ck UfXg'gdY'W]ZYX'gh'UbX'UfXg"

5XX]h]cbU'XYHJ]g.

H\Y'fYdcfhi'f'kYg]g'k ]''fYei ]fY'gh XYbhg'hc'W'ca d'Y'f'Ub']b'f'c'Xi W]cb'UbX'f'U]cb'U'Y'Z'f'f'k'Y]f'd'f'c'd'c'g'Y'X' f'Y'g'Y'U'f'W'hc'd]W'f'%'z's's's'-'&z's's's'k'c'f'X'g'l'/'U'W'ca d'f'Y'f'Y'bg]j'Y'f'Y'j'Y'k'c'Z'h'Y'f'Y'Y'j'U'bh']f'f'U'hi'f'Y'f'f'z's's's'-'z's's's' k'c'f'X'g'l'/'Ub'X'z'U'd'f'c'd'c'g'Y'X'a'Y'h'c'X'c'c'[m'z'c'f'z'hi'f'Y'f'Y'g'Y'U'f'W'hc'U'h]b'W'XY'g'U'z' ''W'c'bg]X'Y'f'U]cb'c'Z'Y'h'J'W' W'c'bg]X'Y'f'U]cb'g'f'&z's's's'k'c'f'X'g'l'Gi' [ [Y'gh'Y'X'k'c'f'X'Y'b[h'g]b'X]W'h]j'Y'c'b'm'

H\Y'd'f'c'Y'W'h'W'c'g'Y'b'Ub'X'h'Y'h'Y'g]g'g'c'i'X'g'Y'f'j'Y'U'g'U'd'f'Y'd'U'f'U]cb'g'h'Y'd'h'ck'U'f'X'U'8'G'K'c'f'D'8'f'Y'g'Y'U'f'W' gh'X'm'H\Y'f'Ydcfhi'k ]''W'ca d'f]g'Y'%'s's'i'c'Z'h'Y'[f'U'X'Y''H'k'c'a'U'f'\_Y'f'g'k ]''U'gg'Y'gg'h'Y'f'Ydcfhi'Ub'X'h'Y'z]b'U'a'U'f\_ k ]''f'Y'Z'Y'W'h'k'Y'X]Z'Y'f'Y'b'W'V'Y'h'k'Y'Y'b'h'Y'h'k'c'a'U'f'\_g'U'k'U'f'X'Y'X''H\Y'a'U'f'\_b[ 'W]f'Y'f]U'U'f'Y'V'Y'c'k'.

7 f]h'f]cb	,) Z	+)!,(l	*)!+(l	0*)l
C f][ ]bU']m	Hcd]W'W'Y'U'f'm cf][ ]bU'k'cf_z  dfcj ]X]b[ 'bYk ]bg][ \hg] ]b'c'h'Y gi V'Y'W'ha U'h'Y'f"	Hcd]W'g'\ck'g Yj ]X'Y'b'W'c'Z cf][ ]bU']m'z'Y'i'f'Y'b'X'g _b'c'k'Y'X[ Y ]b'h'Y z]Y'X	G\ck'g'ca'Y'XY[ f'Y'Y c'Z'c'f][ ]bU']m'Vi' h a'U]b'm'z'c'ck'g Yi ]g'h]b[ 'gh'X]Y'g"	@]h'Y'c'f'bc Yj ]X'Y'b'W'c'Z'c'f][ ]bU' W'c'bh'Y'bh'
I'g'Y'c'Z'h'Y'c'f'm# a'Y'h'c'X'c'c'[m	h'Y[ f'U'h'Y'g'h'Y'c'f'm ]b'c'h'Y'X]g'W'g'g]cb d'U'd'Y'f'k'Y'''G\ck'g h'c'f'c'i [ \ i'b'X'Y'f'g'h'U'b'X]b[ 'c'Z Yi ]g'h]b[ 'h'Y'c'f'm'	H\Y'c'f'm'e'i ]h'Y'k'Y'' ]b'h'Y[ f'U'h'Y'X' ]b'c'h'Y X]g'W'g'g]cb'''G\ck'g [ c'c'X i'b'X'Y'f'g'h'U'b'X]b[ 'c'Z h'Y'c'f'm'	H\Y'c'f'm'd'U'f'h'm ]b'h'Y[ f'U'h'Y'X' ]b'c'h'Y X]g'W'g'g]cb'''G\ck'g c'b'm'V'U'g]W i'b'X'Y'f'g'h'U'b'X]b[ 'c'Z h'Y'c'f'm'	
	h'Y'a'd]f]W' h'Y'g'Y'g h'Y'a'Y'h'c'X'c'c'[m]g k'Y''!W'c'g'Y'b'Ub'X W'ca d'Y'h'Y'bh'm d'f'Y'g'Y'b'h'Y'X"	h'Y'a'd]f]W' h'Y'g'Y'g h'Y'a'Y'h'c'X'c'c'[m d'f'c'd'c'g'Y'X' ]g'g'c'i'b'X"	h'Y'a'd]f]W' h'Y'g'Y'g h'Y'a'Y'h'c'X'c'c'[m d'f'c'd'c'g'Y'X' ]g	

			VY`WYUfYF"	
Gci fWg	ᄁg][ \hᄁ`Ubx hcfci [ \`fyj ]Yk`cZ ]hYfUhi fY`cb`hY hcd]W	Gci bX`fyj ]Yk`cZ YI ]gh]b[ ``]hYfUhi fY	5XYei UhY`fyj ]Yk`cZ YI ]gh]b[ ``]hYfUhi fY Vi hg\ck ]b[ `Zk ]bg][ \hᄁ"	Dccf`fyj ]Yk`cZ YI ]gh]b[ ``]hYfUhi fY k ]h`g][ b]Z]Wbh ca ]gg]cbg"
7 cblf]Vi h]cb`hc _bck`YX[ Y	Di V]g\UV`Y`]b`U `ci fbU`k ]h a ]b]a U` a cX]Z]W]h]cb`Ubx g\Ud]b[ "	Di V]g\UV`Y`]b`U `ci fbU`Vi hk ]h gca Y`#a cXYfUhY a cX]Z]W]h]cb`Ubx g\Ud]b[	I b`_Y`mhc`VY di V]g\UV`Y`Yj Yb k ]h`gi VgfUbh]U` a cX]Z]W]h]cb	Bchdi V]g\UV`Y

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

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

BchUj U]UV`Y

F YWca a YbXYX`F Ygci fWg

F YWca a YbXYX`F Ygci fWg.

%`6fma Ubz5`"f&\$%&E"GcWU`fYgYUfW`a YhcXg`f(H`YX"E"CI ZcFXz9b[ `UbX. CI ZcFX`I b]j Yfg]m`

&"GdfYb\_Yz8"<"/`D]YfWz: "D" fYXglf&\$\$) E" F YgYUfW`A YhcXg`]b: Ua ]mH\YfUdnz; i ]ZcFX`DfYgg.

BYk`Mcf\_"H\]g`di V]W]hcb`W]b`VY`di fWUgYX`cb!`]bY`VmUW]gg]b[ `hY`Zc`ck ]b[ `I F @  
\hd.##k k k "eVX"Wca "Ui #dfcXi W# +, %) +&' \$- \*\$- `F YgYUfW]SA YhcXgS#bS: Ua ]mSH\YfUdnSVnSGdf  
Yb\_YS8ci [ `UgS<S98HSD]YfW#S: fYXSDS98HS"\ha

5XX]h]cbU`fYUX]b[ g.

%`6UVV]Yz9" f&\$\$+E" H\Y`dfUW]W]`cZgcWU`fYgYUfW` f%#h`YX"E"6Y`a cbh`K UXgk cft`

&"BYi a UbzK "@`f&\$\$' E"GcWU`fYgYUfW`a YhcXg.`E i U`]fU]j Y`UbX`ei Ubh]fU]j Y`UddfcUW]Yg`f`hYX"E`  
6cg]cb. 5`mb/`6UWcb"

'`"F i V]bž5"ž/`6UVV]Yz9" f`"f&\$\$, E" F YgYUfW`a YhcXg`Zc`gcWU`k cf\_`f`h`YX"E"6Y`a cbhž75.H\ca gcb  
<][ \Yf`9Xi W]h]cb"

("`<c`cg\_czA "`>"f&\$\$\*E`Df]a Yf`Zc`f`W]h]ei ]b[ `gcWU`fYgYUfW`. 5`gh] XYbh[ i ]XY"6Y`a cbhž75.H\ca gcb  
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Gh] XYbhg`UFY`YbWci fU[ YX`hc`UW]W]gg`ch`Yf`a UHf]U`h`fci [ \`UW]XYa ]W`ci fbU`g`UbX`h`Y`]bhYfbYH`  
I`gYz` ``ci fbU`g`]bWi XY.

GcWU`K cf\_`F YgYUfW

E i U`]fU]j Y`#ei ]fm

6f]hg\`>ci fbU`cZGcWU`K cf\_

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F YgYUfW`cb`GcWU`K cf\_`DfUW]W]

GcWU`K cf\_

6hYfbUhcU`>ci fbU`cZGcWU`K Y`ZJFY

9j U`i Uhcb`F Yj ]Yk `>ci fbU`cZ5dd`jYX`F YgyUfW` 6hYfbUhcU`>ci fbU`cZGcWU`F YgyUfW`A YhcXc`c[ m : Ua ]mDfcWgg

6f]hg\`>ci fbU`cZ: Ua ]mH\YfUdm

5i ghfU`]Ub`UbX`BYk `NYU`UbX`>ci fbU`cZ: Ua ]mH\YfUdm

D`YUgY`bchZ`U`F Yj ]Yk `cZJJa ]mZ`Vci d`Yg`UbX`gmghYa ]Wh`YfUdmici h`Wca Y`fYgyUfW`&\$\$!&\$\$- `VmDYHf GhUhc`bZ`9a a U`G]j YfZ`B`UhUg`U`B`UgW`a YbhcZ; k Yb`Dck Y`Z`@]n`A W`B`cbbY`"/`9k U`B`cj`c`hbm]g`Uj`Uj`UV`Y`Uh [\hd.##k k k "Uz`icf\[ "i #fU\]b\]b\[ #YgyUfW`"Ugd](#)

F`Y`Wca a YbXYX`F`Ygci`f`W`g`Z`c`f`gd`Y`W`Z`W`U`f`Y`U`g`]b`W`i`X`Y`.....

F`Y`g`Y`U`f`W` `9`h`]`W`g`

5bhYz`6`">"/`F`Y`[`Y`fz`7`"f&\$\$`E`"6YncbX`]bX]j ]Xi U`f[ \hg`UbX`Z`Y`Y`X`ca`g`a`Y`H`U`Y`h`]W`g`]b`g`c`W`U`k`cf`\_`f`Y`g`Y`U`f`W`"G`c`W`U`K`cf`\_`z`(`,`z`%`)`!`%`(`"

6i hYfz`="f&\$\$&E`"5`W`c`X`Y`c`Z`Y`h`]W`g`Z`c`f`g`c`W`U`k`cf`\_`UbX`g`c`W`U`W`U`f`Y`f`Y`g`Y`U`f`W`z`6f]hg\`>ci fbU`cZGcWU`K`cf`\_`'z`&`-`!`&`,`"

F`Ua`W`U`f`U`b`z`D`"/`7`i`h`W`]Z`Y`z`>`"F`"f&\$\$%&`>i`X`[`]b`[`h`Y`Y`h`]W`g`c`Z`e`i`U`]`h`U`h`j`Y`f`Y`g`Y`U`f`W`. `W`c`b`g`]X`Y`f`]b`[`h`Y`Y`h`]W`g`U`g`d`f`c`W`g`g`a`c`X`Y`" <`Y`U`h`/`G`c`W`U`7`U`f`Y`]b`h`Y`7`c`a`a`i`b`]m`i`-`z`'` )`%`\*`\*`"

A`U`f`[`c`]b`z`:"`7`\\Y`b`z`8`"z`8`i`a`U`b`z`G`":`U`i`W`X`Y`f`z`5`";`c`f`X`]g`z`9`"C`]j`Y`f`z`D`"F`Ua`c`g`z`A`"U`b`X`J`]W`Y`f`a`U`b`z`?"`f&\$\$)`E`"9`h`]W`U`g`g`i`Y`g`]b`7`c`i`d`Y`U`b`X`:`Ua`]m`F`Y`g`Y`U`f`W`'z`>ci fbU`cZ: Ua ]mDgmWc`c[ mZ`J`c`"-%`z`B`c`"%`z`dd`"%`+`-%`\*`+`

9j ]X`Y`b`W`!`V`U`g`Y`X`d`f`U`W`]W`/`f`Y`Z`Y`W`]j`Y`f`Y`g`Y`U`f`W`

7`f`]g`d`z`6`"f&\$\$(`E`"9`j`]X`Y`b`W`!`V`U`g`Y`X`d`f`U`W`]W`U`b`X`h`Y`V`c`f`X`Y`f`g`c`Z`X`U`U`]b`h`Y`[`c`V`U`]b`Z`c`f`a`U`h`c`b`Y`f`U`">ci fbU`cZGcWU`K`cf`\_`9`X`i`W`h`c`b`z`(`\$`z`+`!`,`\*`"

:`c`c`\_`z`>`"f`9`X`"E`f`%`-`\*`E`"H`Y`f`Y`Z`Y`W`]j`Y`f`Y`g`Y`U`f`W`Y`f`G`c`W`U`k`cf`\_`Y`f`g`h`Y`c`f`]Y`g`c`Z`d`f`U`W`]W`f`Y`g`Y`U`f`W`"G`h`@`Y`c`b`U`f`X`g`5`"Y`b`/`!`b`k`]b`"

;`]V`V`g`z`@`/`:`Ua`V`f`]z`9`"f&\$\$&E`"9`j`]X`Y`b`W`!`V`U`g`Y`X`d`f`U`W`]W`. `W`c`i`b`h`Y`f`U`f`[`i`a`Y`b`h`g`h`c`v`Y`W`]c`b`g`"F`Y`g`Y`U`f`W`c`b`G`c`W`U`K`cf`\_`D`f`U`W`]W`z`%`&`z`(`)`&`!`(`+`\*`"

A`W`B`c`b`U`X`z`7`"f&\$\$`E`":`c`f`k`U`f`X`j`]U`h`Y`d`U`g`h`B`9`j`]X`Y`b`W`!`V`U`g`Y`X`d`f`U`W`]W`U`g`g`h`f`U`h`[`m`]b`g`c`W`U`k`cf`\_`"H`Y`8`f`U`k`]b`[`6`c`U`f`X`. `5`b`5`i`g`h`f`U`]b`F`Y`j`]Y`k`c`Z`D`i`V`]W`5`Z`U`]f`g`z`'z`%`&`!`%`&`"

D`U`h`z`8`"f&\$\$\*`E`"9`j`]X`Y`b`W`!`V`U`g`Y`X`d`f`U`W`]W`. `W`f`f`Y`b`h`]g`g`i`Y`g`U`b`X`Z`h`i`f`Y`X`]f`Y`W`]c`b`g`"5`i`g`h`f`U`]b`G`c`W`U`K`cf`\_`z`(`)-`z`)\*`!`+`&`"

F`c`g`Y`b`z`5`"f&\$\$`E`"9`j`]X`Y`b`W`!`V`U`g`Y`X`g`c`W`U`k`cf`\_`d`f`U`W`]W`. `W`X`U`Y`b`[`Y`g`U`b`X`d`f`c`a`]g`Y`"G`c`W`U`K`cf`\_`F`Y`g`Y`U`f`W`z`&`+`z`%`+`!`&`,`"

K`Y`V`V`z`G`"5`"f&\$\$&E`"G`c`a`Y`W`c`b`g`]X`Y`f`U`h`c`b`g`c`b`h`Y`j`U`]X`]m`c`Z`Y`j`]X`Y`b`W`!`V`U`g`Y`X`d`f`U`W`]W`]b`g`c`W`U`k`cf`\_`"



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H`Y`d`l`cb`Y`9I`H`fb`U`Gi`ddcfh`cb`-`,`)``%`cf`Ya`U]`h`Ya`cb`YI`H`fb`U`H`hgi`ddcfh`i`bgk`"YXi`"Ui`"Gi`ddcfh`  
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