



CRIM2042

9l d`U]b]b[`7 f]a Y

HYfa `H\fYY`##`&\$%-

7ci fgY`Cj Yfj JYk

`GHUZZ7cbhUWhi8YHJ`g`

`7cbj Ybcfg`

B Ua Y	9a Uj`	5j Uj`UVj]m	@cWWhcb	D\cbY
8f?Yj`8YfhUX]Ub	_"XYfhUX]Ub4 i bgk "YXi "Ui	6mUddc]bha Ybh	A cfj Yb`6fck b %%-	f\$&£-' ,) &\$%-
8f`D\j`jd`K UXXg	d"k UXXg4 i bgk "YXi "Ui	6mUddc]bha Ybh	A cfj Yb`6fck b %%+	f\$&£-' ,) &' %&

GWcc`7cbhUWhi`Zcfa Uhjcb

GWcc`cZGcWU`GWYbWg

Fcca`%) -

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

Ya Uj`.gcgg4 i bgk "YXi "Ui

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

7ci fgY'8YHJ]`g

7fYX]hDc]bqg`*`

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

Gi V`Y`W`i`5`f`Y`U`.'`5`d`_`[`a`^`a`Y`k`

K \UhWli gYg`W]a Y3`K` \c`]g`a` cFY`_`L`Y`m`i`c`Z`Y`b`X`'U`b`X`'k` \m`B`'K` \Uh`W`U`b`'k` Y`'X`c`'r`c`'d`f`Y`j` Y`b`h`W]a Y3`<`c`k`'X`c`Y`g`
W]a]bc`c`[]W]`'h`Y`c`f`m`'Y`'d`'i` g`i` b`X`Y`f`g`h`U`b`X`'h`Y`'W` f`f`Y`b`h`W]a]b`U`'`^`g`h`W]`'g`m`g`h`Y`a` 3`'H`]g`'W`c`i` f`g`Y`'V`i`]`X`g`'i` d`c`b`
m`c`i` f`i` b`X`Y`f`g`h`U`b`X`]b[`c`Z`h`Y`'a` U`c`f`h`Y`c`f`Y`h`W]`'U`d`d`f`c`U`V`X`Y`g`'r`c`'W]a` Y`'U`b`X`'W]a`]b`U`'`^`g`h`W]`'z`U`b`X`'g`Y`Y`_`g`'r`c`
U`b`g`k` Y`f`h`Y`'U`V`c`j` Y`'e`i` Y`g`h`c`b`g`" `7`f]a`]bc`c`[]W]`'h`Y`c`f`m`k`]`V`Y`'W]`h`W]`'m`Y`i` U`a`]b`Y`X`'Z`c`f`]r`g`'i` h`]`m`]b`'X`Y`j` Y`'c`d`]b[
d`c`]W]`i`f`Y`g`d`c`b`g`Y`g`'U`b`X`'i` b`X`Y`f`g`h`U`b`X`]b[`h`Y`'\`]g`h`c`f`]W]`'U`b`X`'W`c`b`h`Y`a` d`c`f`U`f`m`X`Y`j` Y`'c`d`a` Y`b`h`c`Z`c`i` f`i` b`X`Y`f`g`h`U`b`X`]b[g`
c`Z`W]a` Y`z`W]a`]b`U`]m`i`U`b`X`'h`Y`'W]a`]b`U`'`^`g`h`W]`'g`m`g`h`Y`a` " `G`]a`]U`f`'r`c`'c`h`Y`f`'g`c`V]U`'`g`W]Y`b`W`g`z`W]a`]bc`c`[m`]g`'U`
f`Y`Z`Y`i`]j` Y`'X`]g`W]d`]b`Y`'k` \Y`f`Y`V`m`d`U`f`h`c`Z`h`Y`'W]a`]bc`c`[]W]`'Y`b`h`f`d`f`]g`Y`]g`'r`c`'W]`h`W]`'m`Y`i` U`a`]b`Y`'W]a`]bc`c`[m`]r`g`Y`'Z`
K` Y`'k`]`^`c`c`_`U`h`h`Y`c`f`]Y`g`'h`U`h`Y`'d`'i` g`'r`c`'i` b`X`Y`f`g`h`U`b`X`'k` \U`h`[Y`b`Y`f`U`h`g`'W]a` Y`z`'c`k`'r`c`'d`f`Y`j` Y`b`h`W]a` Y`'U`b`X`'\`c`k`
W]a` Y`'j`g`'V`Y`g`h`X`Y`U`'h`k`]h`"

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

%` @`c`W]U`h`'W` f`f`Y`b`h`W]a` Y`'d`c`]W]m`k`]h`]b`'h`Y`'W`c`b`h`Y`i` h`c`Z`W]a`]bc`c`[]W]`'h`Y`c`f`m`
&"` X`Y`b`h`z`m`g`h`f`Y`b[`h`g`'U`b`X`'k` Y`U`_`b`Y`g`g`Y`g`]b`'W`c`b`h`Y`a` d`c`f`U`f`m`d`i` V`]W`X`Y`V`U`h`g`'U`b`X`'W]a` Y`'W`c`b`f`c`'d`c`]W]Y`g`'U`b`X`
U`g`g`Y`g`g`'h`Y`'j` U`]X`]m`i`c`Z`i` b`X`Y`f`m`]b[`h`Y`c`f`Y`h`W]`'U`g`g`i` a` d`h`c`b`g`
'` " `A` U`d`'h`Y`'g`'Z`g`]b`'W]a`]bc`c`[]W]`'h`Y`c`f`m`z`c`a`'h`Y`'U`h`'`%`'h`'W]b`h`i` f`m`r`c`'W` f`f`Y`b`h`X`U`m`
(` " X`Y`b`h`z`m`h`Y`c`f`Y`h`W]`'U`d`d`f`c`U`V`X`Y`g`'U`X`c`d`h`X`']b`'i` b`X`Y`f`g`h`U`b`X`]b[`W]a` Y`z`'W]i` g`Y`g`'c`Z`W]a` Y`z`'d`i` b`]g`'a` Y`b`h`
f`U`h`c`b`U`Y`'U`b`X`'g`h`f`U`h`[]Y`g`
)` " `8`Y`a` c`b`g`h`f`U`h`'m`c`i` f`i` b`X`Y`f`g`h`U`b`X`]b[g`'c`Z`W]a` Y`'h`Y`c`f`m`U`b`X`'d`c`]W]m`h`f`c`i` [\`g`W]c`'U`f`m`X`]g`W` g`g`]c`b`z`
X`Y`V`U`h`'U`b`X`'k` f`]h`Y`b`'U`b`U`'m`g`]g`'c`Z`W]g`Y`'g`h`i` X`m`i`a` U`h`f`]U`'U`b`X`'d`c`]W]Y`g`

HYUW]b[`G`h`f`U`h`[]Y`g`

H`]\`g`'W`c`i` f`g`Y`'\`U`g`'V`Y`Y`b`'X`Y`g`]b`Y`X`'r`c`'Y`i` d`U`b`X`'m`c`i` f`i` b`X`Y`f`g`h`U`b`X`]b[`c`Z`W]a`]bc`c`[]W]`'h`Y`c`f`]Y`g`'U`b`X`'h`Y`]f`
f`Y`'U`h`c`b`g`'\`d`'r`c`'d`c`]W]i`U`b`X`'d`f`U`W]`W]z`V`i`]`X`]b[`c`b`'d`f`c`f`Y`i` d`Y`f`]Y`b`W]`'U`b`X`'_`b`c`k`'Y`X`[Y`'j`b`W]`'X`]b[`h`U`h`[U`]b`Y`X`]b`
7`F`-`A`%`\$`\$`'U`b`X`#`f`'7`F`-`A`%`\$`%`%`W`c`i` d`Y`X`'k`]h`'U`b`m`Y`'Y`W]j` Y`g`'U`
†`U`

]bZcfa Uhc b'gc' h'Uhmc i' WUb'fYZYWhi dcb'h'Y']ggi Yg'fU]gYX'UbX'h'Yb'X]gW gg'h'Ya ']b'h' h'cf]U'g"@YWh' fYg
UfY']bh' bXYX' h'c' VY']bh' fUWh' j' Y' UbX' h'ci [\hidfcj c_]b['UbX'a Um]bWh' XY' [i YghdfYgYbh'fgz'h'Y' i gY'cZ]]XYc
W]dg'UbX'Z'a gZ'WUgY'gh' X]YgZ'ga U'![fci d'UWh' j]h'YgZ'dfcV'Ya 'VUgYX'UWh' j]h'Yg'UbX'dU]f'k cf_" H\Y' YWh' fYg
UfY'XYg][bYX'h'c'gi dd'Ya Ybh]bXYdYbXYbhghi Xmc b'h'Y' Wc' i fgY' h'UhVY[]bg'fVi hg\ci 'X' bchYbX'k]h' Wc'gY
Yb[U[Ya Ybhk]h' h'Y' k YY_ 'mfYei]fYX'fYUX]b[g"

Hi h'cf]U'g'k]' Wc'bg]ghcZWc' YWh' j' Y' YI Ua]bUhc b'j]U'WUgg'X]gW gg]cb'cZ'h'Y' h'Y'cf]Yg'YI Ua]bYX']b'h'Y
gi V'YWh'UbX'Udd']W]h'cb'cZ'h'Ya 'h'c' YI Ua d'Yg'cZ'W'a]bU' VY\Uj]ci f'UbX'Yj Ybhg"K Y' h'U_Y' h'Y' j]Yk' h'Uh'h'Y
WUggfcca']g'U' WYU'h'j Y'gdUW' UbX'h'Uh' _bck' YX[Yz'fU'h'Yf'h'Ub'VY]b[']a dUfh'X']g' WYU'h'X'UbX'fYWYU'h'X
]b'h']g'gdUW' "H\Y' gi WY'gg'cZ'h']g'dfcV'gg'XYdYbXg'i dcb'h'Y'X]U'c[i Y'YghUV']g\YX'VY'h' Y'Yb'dUfh'W]dUbhg
fghi XYbhg'UbX'h' h'c'fg' 5Wh' j' Y'dUfh'W]dUhc b']b'h'Y' h' h'cf]U'g']g'YggYbh'U' "K YY_ 'mh' h'cf]U'g'U'ck' 'mci' h'c'
X]gW gg'ei Ygh'cbgZ'h'Ya Yg'UbX']ggi Yg'Uf]g]b['Z'ca' mci f']bXYdYbXYbhghi Xnz'Ug'k Y' U'g'dfcj]X]b['h'Y
cddcfi b]mhc' Yb[U[Y']b'dfcXi Wh' j' Y'X]gW gg]cb'k]h' mci f'dYYfg"

dfcgYW hX`j b`hY`BGK `8]gh]Wh7ci fh`

GY`YWhCB9`cZhY`Z`ck]b[`WUgY`ghi X]Yg.

7 UgY`Gh Xm5.`\hd.## k k "Ui gh]]YXi "Ui #Ui #WUgYg#bgk #BGK 87 #&\$%{ # \$&"\ha `

7 UgY`Gh Xm6.`\hd.## k k "Ui gh]]YXi "Ui #Ui #WUgYg#bgk #BGK 87 #&\$% #&&"\ha `

7 UgY`Gh Xm7.`\hd.## k k "Ui gh]]YXi "Ui #Ui #WUgYg#bgk #BGK 87 #&\$%# \$" \ha `

I`g]b[`HK C`cZhY`hYcf]Yg#dYfgdYW]j Yg`X]gW ggYX`Zca`K YY_`(!, `]b`hY`Wci fgYzW]h]WU`mUbU`mgY`mci f` WUgY`ghi Xm]b`fY`Uh]cb`hc`hY`W]ja`Y`Wca`a`]hYXz`hY`cZYbXYfzj`]W]ja`z`UggcW]U]hY`X`Z]W]g`UbX`dYbU`hm`\UbXYX`Xck`b`"

h`mci f`Ub]gk`Yf`mci`a`i`ghYl`d`U]b`l`ck`hY`h`YcfY]h]WU`UddfcUWX`Yg`Y`d`hc`i`bXYfg]h]UbX`cf`Yl`d`U]b`hY`WUgY`ghi`Xm]mci`l`Uj`Y`W]cgYb`Vm]Wca`dUf]b[`#W`b]fUgh]b[`hY`h`Ycf]Yg`UbXz`]b`Xc]b[`gc`z`ci`h]b]b[`hY`ghfYb[`h]g`UbX`k`YU`bYggYg`cZhY`h`Ycf]Yg"

H\]g`]g`bchU`XYgW]d]h]j`Y`bUffU]h]j`Y`gc`d`YUgY`Xc`bch]g]a`d`m]fY`U]h]j`hY`ghc`fmcZ`hY`cZYbW]z`cf`XYgW]VY`hY`]bX]j`]Xi`U`g`]bj`c`j`YX`/mci`a`i`ghUdd`m]mci`f`h`YcfY]h]WU`i`bXYfg]h]UbX]b[`hc`mci`f`UbU`mg]g`cZhY`WUgY`ghi`Xm`

5ggYgga`Ybh7`f]h]f]U

%`8`Ya`cbg]fU]h]cb`cZ]b]l`XYd]h`i`bXYfg]h]UbX]b[`c`Z]W]cgYb`h`YcfY]h]WU`WcbW]d]h]g`UbX`hc`c`g`cZUbU`mg]g/

&`5`V]`]m]h]c`Udd`m]h`YcfY]h]WU`WcbW]d]h]g`hc`WUgY`ghi`Xm]h]fci`[`\]b]l`XYd]h`X]gW`gg]cb`cZ]W]ja`Yz`cZYbXYfzj`]W]ja`z`UggcW]U]hY`X`Z]W]g`UbX`dYbU`hm`\UbXYX`Xck`b/

'`5`V]`]m]h]c`Yb[`U[`Y`]b`W]h]WU`X]gW`gg]cb/

("`5`V]`]m]h]c`gi`a`a`Uf]gY`UbX`Yj`U`i`U]h]ei`U`]h]Yg`cZ`h`Ycf]Yg`W]cgYb`Zcf`UbU`mg]g/

)`5`V]`]m]h]c`Wca`dUfY`UbX`Wcb]fUgh]hY`ghfYb[`h]g`UbX`k`YU`bYggYg`cZ`h`Y`hk`c`W]cgYb`h`Ycf]Yg/

*`8`Ya`cbg]fU]h]cb`cZ]b]Z`fa`U]h]cb`h]fU]W]h]g_]`g`]"Y`"UV]`]m]h]c`Uddfcdf]U]h]m`c`WU]h]z`Yj`U`i`U]h]UbX`i`gY`fY`Yj`Ub]h]U]W]X]Ya`]W]fYgYUfW]UbX`h]fU]h]fY/

+`8`Ya`cbg]fU]h]cb`cZ`U]W]X]Ya`]W]k`f]h]b[`g_]`g`z`U`c[`]WU`UbX`Wca`Y`fYbhUf[`i`a`Yb]z`UbX`WUf]m]cZ`k`f]h]fYb`Yl`dfYgg]cb`]b]W]X]b[`c`j`YfU`d`fYgYb]h]h]cb`f[`fUa`a`Ufz`gdY`b[`z`k`f]h]fYb`Yl`dfYgg]cb`z`Yh]W]f/

,`5`ddfcdf]U]h]UbX`Wcb]g]h]Ybh]fYz`fYb]W]b[`"

Hi`fb]h]b`gY]h]b[`.H\]g`Ugg][`ba`Ybh]g`gi`Va`]h]YX`h]fci`[`\`Hi`fb]h]b`UbX`ghi`XYb]h]g`Xc`bch]g]YY`Hi`fb]h]b`g]a`]Uf]m]fYdcf]g"

Hi`fb]h]b`gY]h]b[`.H\]g`Ugg][`ba`Ybh]g`gi`Va`]h]YX`h]fci`[`\`Hi`fb]h]b`UbX`ghi`XYb]h]g`Xc`bch]g]YY`Hi`fb]h]b`g]a`]Uf]m]fYdcf]g"

5ggYgga`Ybh'`.:`]bU`9l`Ua

GhufhXUHY.

8YHJ]g. '&\ci f'YI Ua]b'Zcfa U'YI Ua]bUhc'b'dYf]cX''H\]g']g'h\Y'Z]bU'UggYgga Ybh]b'h\Y'Wci fgY'Zcf'h\Y
di fdcgY'cZh\Y'UthYbXUbW'fYei]fYa Ybh'

5XX]h]cbU'XYHJ]g.

H\Y'YI Ua]bUhc'b'k]''VY'cZlk c'\ci fg'Xi fUhc'b/bc'Vcc_g'cf'ch\Yf'Ugg]ghUbW'k]''VY'dYfa]hYX']b'h\Y
YI Ua]bUhc'b'fcca ''H\Y'YI Ua 'k]''Wcj Yf'WcbhYbhZca 'Wci fgY''YWti fYgž'hi hcf]Ugž'cb']bY'WcbhYbž'UbX

F Ygci fWg

DfYgW]VYX`F Ygci fWg`

7cfY`hYl hfUj U]UV`Y`Uhl BGK `7c!cd`6cc_ghcFYŁ

6YfbUfXžH"žGb]dYgž>"UbX"; Yfci `Xž5" f&\$%) Ł" J c`X`g`H\YcfYh]WU`7 fja]bc`c[m+h`YX""BYk`Mcf_`C I ZcfX
I b]j Yfg]mDfYgg"

F YWta a YbXYX`F Ygci fWg

DfYgW]VYX`UbX`F YWta a YbXYX`F YUX]b[g`UbX`F Ygci fWg`UXX]hcbU`hc`hY`hY`hWcc_`k]`VY`Uj U]UV`Y`cb
hY`A ccX`Y`g]hžk]h`fYgci fWg`Uj U]UV`Y`hfc i [\`@Y[Ubhc`UbX`hY`I BGK ``]VfUfm`

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

6ch`Zcfa U`UbX`]bZcfa U`ZYXVUW`cb`h]g`Wci fgY`]g`k`Y`Wta Y`Zca`ghi XYbhg`hfc i [\`ci h`hY`gYa YghYf"
Gh XYbhZYXVUW`cb`hY`Wci fgY`WcbhYbž`UggYgga Ybhg`UbX`Zcfa Uhd`Umrg`Ub`ja dcfhUbhfc`Y`]b`hY
XYj Y`cda YbhUbX`Yj`ci`hcb`cZci f`Wci fgYgžhc`Ybgi fy`h`Uhk`Y`a U`Y`hY`bYWggUfmUXUdh]cbg`hc`hY
Wci fgY`Zcf`hY`Z`h`fY`"H\]g`gYa YghYf`k`Y`k`]`VY`gYY_]b[`ZYXVUW`Zca`mci`Uhj`Uf]ci`g`dc]bhg`]b`hY
Wci fgY`ž`UbX`UfY`]bhYfYghYX`]b`i`bXYfg]UbX]b[`]ZUbX`\ck`Wci fgY`UW]j`]hYg`Ugg]gh]b`mci`f`XYj`Y`cda`YbhUg`Ub
]bXYdYbXYbh`YUfbYf`"K`Y`k`]`U`gc`VY`i`g]b[`hY`I`b]j`Yfg]m]g`a`m9I`dYf]YbW`gng]hYa`hc`Yj`U`i`UhY`hY`Wci`fgYž
Vi`hmc i`UfY`k`Y`Wta`Y`hc`Wta`a`i`b]W]hY`UbmichYf`ZYXVUW`hc`mci`f`YW]h`fYfg`cf`h`hc`f`UhUbm]ja`Y`"F`YW`bh
ZYXVUW`fYW]j`YX`cb`h]g`Wci`fgY`\Ug`fYgi`hYX`]b`ja`dfcj`Ya`Ybhg`hc`Wci`fgY`WcbhYbž`XY`]j`YfmUbX
UggYgga`YbhUg_g`Zcf`ghi`XYbhg"

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

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

Ẓmci `YbWci bhYf`U`dfcV`Ya `k \Yb`U`H`Ya dh]b[`hc`gi Va]hmc i f`Ugg][ba YbhHfci [\`Hi fb]h]bžd`YUgY
H`Yd\cbY`9I H`fbU`Gi ddcfhcb`-` ,) `` `` %cf`Ya U]`H`Ya `cb`YI H`fbU`H`hgi ddcfh4 i bgk "YXi "Ui ``Gi ddcfh
\ci fg`UfY` , .\$\$Ua `--`%\$. \$\$da `cb`k YY_XUmg`UbX`- . \$\$Ua `--`) . \$\$da `cb`k YY_YbXg`fI *) `XUmg`U`m`Y`UfL` Ẓmci
UfY`i bUV`Y`hc`gi Va]hmc i f`Ugg][ba YbhXi Y`hc`U`ZU`i`hik]H`Hi fb]h]b`mci `a UmiUdd`miZc`f`Ub`YI H`bg]cbžVi hmc i
a i ghfY`H]b`mci f`h]W`Yhbi a VYf`Zca `9I H`fbU`Gi ddcfhfU`cb[`k]H`Ubmch`Yf`fY`Yj UbhXcW a Yb`hgL`hc
]bWi XY`Ug`Yj]XYbW`hc`gi ddcfhmci f`YI H`bg]cb`Udd`]W]h]cb" Ẓmci `Ya U]`9I H`fbU`Gi ddcfhmci `k]`

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

D`U[]Uf]ga `]g`i`g]b[`h`Y`k`cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b[`h`Ya`Ug`mci`f`ck`b" `h`WUb`hU`Y`a`Ubm
Zcfa`gž`Zca`XY`]VYfUy`W`Y`U`h]b[`h`U`W`Y`X`Y`b`U`m`W`d`m]b[`Zca`U`gci`f`W`k`]h`ci`h`U`W`_`b`ck`Y`X[`Ya`Y`b`h`

- i bXYfgHUbX'mci f'f][\hg'UbX'fYgdcbg]V]]hYg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi WñUbX'5WwdfUV'Y'I gY'cZ
I BGK '⇒H'F Ygci fW'g'Dc`]Wñ

5 WUXYa]WbZcfa Uh]cb`

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`hc.

- fYei Ygh]Zcf`YI h`bg]cb/
- `Uh]`gi Va]gg]cbg`[i]XY`]bYg/
- fYj]Yk `cZa Uf_g/
- I BGK `<YU`h`UbX`GUZY`midc`]WYg/
- YI Ua]bUh]cb`dfcVWXi fYg/
-