

MODL5113

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GYa YghYf'Hk c''#'&\$%

| B Ua Y | 9a U]` | 5j U]`UV]`] m | @cWUh]cb | D\cbY |
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| 9`YbU'A | Y"a | Figg]Ub'h hcf]U'g k]``HU_Y'd`UVW Zcfhb][\hm'K YX %!%(žK '&ž(ž*ž, ž %%'UbX'% A cfj 6 %\$)" | | |

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@cWUhcb. GW.cc CZWY ZA cfj Yb 6fck b 6i [X]b[Z@Yj Y & Z&),

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9a U]`. \U`4 i bgk "YXi "Ui

5 h Y b X U b W F Y e i] f Y a Y b h g

5 'ghi XYbhi]g'Yl dYWYX'hc'UhiYbX'U```WUgg'WebhUWi\ci fg'Zcf'U'ZUWY!hc!ZUWY'fl &: Ł'cf'V`YbXYX'Wei fgY'UbX Wea d'YhY'U```UWIjj]hjYg'Zcf'U'V'YbXYX'cf'Z ``micb`]bY'Wei fgY''

5 'ghi XYbhik \c'Uff]j Yg'a cfY'h\Ub'%) 'a]bi hYg'`UhY'a Um'VY'dYbU`]gYX'Zcf'bcb!UhhYbXUbWY'''-₹gi W\'U'dYbU`hm]g']a dcgYXž'h\Y'ghi XYbha i gh'VY']bZcfa YX'j YfVU``m'Uh'h\Y'YbX'cZWUgg'UbX'UXj]gYX']b'k f]h]b['k]h\]b'&(\ci fq"

ZUʻgh XYbhYl dYf]YbWrgʻ]`bYggža]gUXj Ybhi fYʻcfʻch\YfʻcWW ffYbWrh\Uha U_YgʻUVgYbWrZ̄ca ʻU WUgg#JWlj]hmi bUj c]XUV`Yžcf`Yl dYWgʻhcʻVYʻUVgYbhZ̄ca ʻUʻZcfh\Wca]b[ˈWUgg#JWlj]hmžh\Ymg\ci `XʻgYY_ dYfa]gg]cbʻZ̄ca ʻh\Yʻ7 ci fgYʻ5i h\cf]hmžUbX'k \YfYʻUdd`]WUV`Yžh\Y]f`fYei Yghg\ci `XʻVYʻUWWca dUb]YXʻVmUb cf[[]bUʻcfʻWffhZYXʻWcdmcZUʻa YX]WU`WrfhZWJhYʻcfʻch\Yf`Zcfa `cZUddfcdf]UhYʻYj]XYbWY''

5.7 ci fgY '5 i h\cf]hma UmYI W gY 'U'ghi XYbhiZica 'WUggYg'cf'UWjj]hjYg'Zcf'i d'hc'cbY 'a cbh\"' < ck Yj Yfž'h\Ym a UmUgg][b'UXX]hjcbU``UbX#cf'U'hYfbUhjj Y'HUg_g'hc 'Ybgi fY 'Wca d`]UbW''' 5.7 ci fgY '5 i h\cf]hm\Wcbg]XYf]b['h\Y [fUbh]b['cZUVgYbW' 'a i gh'VY'gUhjgZ]YX'U'ghi XYbhk]```gh]```VY'UV'Y'hc'a YYhh\Y'Wci fgY'g'`YUfb]b['ci h\Wca Yg UbX#cf'j c`i a Y'cZ'YUfb]b["'5'ghi XYbhigYY_]b['Uddfcj U`'hc'VY'UVgYbhiZcf'a cfY'h\Ub'cbY'a cbh\'a i gh'Udd`m]b'k f]h]b['hc'h\Y'8YUb'UbX'dfcj]XY'U``cf][]bU``cf'WYfh]ZYX'qi ddcfh]b['XcW a YbhUh]cb"

: cf'a cfY']bZcfa Uhjcb'UVci hih\Y'UhhYbXUbWY'dfchcWc`g']b'h\Y': UWY`hmicZ'5fhg'UbX'GcWjU`GVjYbWYg.'\hdg.#k k k "Ufhg"i bgk "YXi "Ui #W ffYbhgh XYbhg#UWUXYa]W]bZcfa Uhjcb#dfchcWc`g![i]XY`]bYg#

5 WUXYa W + DZcfa Uhlcb

: cf`YggYbhJU``ghi XYbh`]bZcfa UhJcb`fY`UhJb['hc. 'fYei Yghg`Zcf`Yl hYbg]cb/fYj]Yk 'cZa Uf_g/cWW dUhJcbU``\YU`h\UbX`gUZYhm'Yl Ua]bUhJcb'dfcWYXi fYg/gdYWJU``Wcbg]XYfUhJcb`]b'h\Y'Yj YbhcZ]``bYgg`cf`a]gUXj Ybhi fY/ghi XYbhYei]hmUbX`X]gUV]`]hm'UbX`ch\Yf`YggYbhJU``UWUXYa]W]bZcfa UhJcbž gYY`\hdg.#k k k "Ufhg"i bgk "YXi "Ui #W ffYbhghi XYbhg#JWUXYa]W]bZcfa UhJcb#dfchcWc`g![i]XY`]bYg#

7ci fgY 8YHJ] g

7 fYX]hDc]bhg *

Gi a a UfmcZh\Y'7ci fgY

H\]g`UXj UbWX`]bhYfdfYhJb[`Wti fgY`]g`]bhYbXYX`Zcf`ghi XYbhg`Ybfc``YX`]b`h\Y`Z]bU``gYa YghYf`cZh\Y`A UghYf`cZ \DYfdfYhJb[`f] &\$&t`UbX`A UghYf`cZ\DhYfdfYhJb[`UbX`HfUbg`UhJcb`Ghi X]Yg`f] &\$(t"`6i]`X]b[`cb`g_]``g XYj Y`cdYX`]b`dfYj]ci g`Wti fgYgžmci `k]```Z ff\Yf`XYj Y`cd`mci f`]bhYfdfYhJb[`Wta dYhYbWJYg`hc`fYUW\`h\Y ghUbXUfXg`fYei]fYX`Vmh\Y`5i ghfU`]Ub`Wta a i b]hmUbX``Y[U`#\tilde{\text{minimize}}\dfcZ\fg]cb"`H\Y`\tilde{\text{minimize}}\dfcZ\fg]cb"`H\Y`\tilde{\text{minimize}}\dfcZ\fg]cb"`H\Y`\tilde{\text{minimize}}\dfcZ\fg]cb\dfc\ff\dfYhYfg`UbX HfUbg`Uncfgt:\DhYfdfYhJb[`U\WYYX]hUhJcb`YI Ua]bUhJcb"

5 hh Y WcbWi glcb cZh lg Wci fgY h Y gh XYbhk] "VY UV Y hc

- %" C fU``m'Wca dfY\YbX'Wca d`YI 'gci fWY'a YggU[Yg'UbX'hYI hg']b'9b[`]g\ 'UbX'h\Y'ch\Yf'fY`Yj Ubh `Ub[i U[Y
- $\& "7f]h]WU``m`UbU`mgY`cfU``gdYYV\\`]b``9b[`]g\``UbX`h\Y`ch\Yf`fY`Yj`Ubh``Ub[i`U[Y``$
- ' " 5 WW fuh'm Webj Yfhih. Y gei fw' a Yggu[Y he h. Y huf[Yh`ub[i U[Y efu`mi g]b[X]ZZYfYbh']bh'fdfYh]b[a cXYq
- ("8Y`]jYf'h\Y']bhYfdfYhYX'i hhYfUbWY']b'h\Y'Uddfcdf]UhY'fY[]qhYf'UbX'ghmY'
-) " A UbU[Y 'UbX 'WccfX]bUHY 'hf]UX]WV] `]b[i U` `]bHYfUWI]cbq
- *" 5dd`m_bck `YX[Y`cZh\Y`7cXY`cZ9h\]Wg`UbX`h\Ycf]Yg`cZ±bHYfdfYh|b[`]b`Ub`Yl Ua]bUh|cb`g]hi Uh|cb

HYUWX]b['GhfUhY[]Yg'

H\]g'Wci fgY'Wca V]bYg'k YY_`ma i `H`]b[i U```YWfi fYg'UbX``Ub[i U[Y!gdYW]ZWfi fcf]U`g"

#b 'h\ Y 'a i 'h]]b[i U```YWi fYžmci 'k] ```fYj]gY 'UbX'Vi]`X'cb 'mci f'Yl]gh]b['_bck `YX[Y`cZ]bhYfdfYh]b['h\ Ycfm'UbX dfUWi]\W`žXYYdYb]b['mci f'_bck `YX[Y`cZh\ Y`Xca U]bg'i gYX']b 'Wca a i b]\m'UbX``Y[U`#\\ci fh]bhYfdfYh]b["'\\ci k]```XYj Y`cd'mci f']bhYfdfYh]b['g_]``g'UbX'gi V!g_]``g']b 'U'a i `h]`]b[i U``gYhn]b[ž]bWi X]b['9b[`]g\ ``Ub[i U[Y g_]``g''\ci k]``k cf_']bX]j]Xi U``mUbX']b 'ga U```[fci dg'hc \cbY'mci f'g_]``g'UbX'Wi]h]\W``mYj U`i UhY'h\ Ya h\ fci [\`gY`Z'UbX'dYYf!UggYgga Ybh''C fU``ZYYXVUW_k]]``VY'dfcj]XYX'hc'h\ Y`\WUgg'UbX']bX]j]Xi U``m'

Mci 'k]``'Udd`mih\YgY'g_]``g`hc'h\Y'V]`]b[i U`'WcbhYl hcZmci f`fYgdYWfj Y``Ub[i U[Y'hi hcf]U`g"

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| 5ggYgga Ybh'hJg_ | K Y][\h | 8i Y'8UHY | Gh XYbh@YUfb]b[Ci hWca Yg 5ggYggYX |
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| ±b!WUggʻUggYgga YbhcZ a cbc`]b[i U`ʻg_]``gʻUbXʻgi V! g_]``gʻUggYgga Ybh | %\$ 1 | Bch5dd`]WUV`Y | %ž&Ž ž(ž* |
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8YHJ`g. J jj U`]bhYfdfYhJb['Yl Ua]bUhJcb" ⊕X]j]Xi U``ZYYXVUW_'UbX'a Uf_]b["H\]g']g'h\Y'ZJbU``UggYgga Ybh'Zcf UHYbXUbW''di fdcgYg"

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

: cfa U``UWWYX]hUhjcb`Yl Ua]bUhjcb`WcbXi WYX`Xi f]b[`h\Y`Yl Ua]bUhjcb`dYf]cX`cb`K YXbYgXUm+`Bcj Ya VYf &\$% "

Hi fb]hjb gYhjb[. H\]g]g bchU Hi fb]hjb Ugg][ba Ybh

5ggYgga Ybh& : \$!\WUgg'UggYgga YbhcZa cbc`]b[i U`'g_]``g'UbX'gi V!g_]``g'UggYgga Ybh

GhUfhXUhY. Bch5dd`]WUV`Y

@Yb[h\.'b#J

8 YHJ]`g. 'C b[c]b[`]b!WUgg`UggYgga YbhcZa cbc`]b[i U``g_]``g`UbX`gi V!g_]``g`Xi f]b[`a i `h]`]b[i U```YWi fYg fWca dfY\Ybg]cbz`bchY`HJ_]b[ž'9b[`]g\``Ub[i U[Y`]bhYfdfYh]b[`XY`]j YfmŁ"Ghi XYbhg`UfY`bch]ZYX`]b`UXj UbWY`cZh\Y`UggYgga YbhWf]hYf]U`UbX`YI dYWUh]cbg"`H\YmfYWY]j Y`Zcfa Uh]j Y`ZYYXVUW_`fY[UfX]b[`h\Y`dfcW/gg`UbX dfcXi Whh\fci [\ci hh\Y`gYa YghYf'k]h\`fY[UfXg`hc`j Uf]ci g`g_]``g`UbX`a cXYg`cZ]bhYfdfYh]b[": YYXVUW_`]g dfcj]XYX`]bX]j]Xi U``mUbX`hc`h\Y`WUgg"

5XX]h]cbU`'XYhU]`g.

 $H\fYY']bghU`a\ Ybhg`cZ]bhYfdfYh]b[\ ']bhc '9b[\ `]g\ ']b'k\ YY_g'(\ \check{z},\ 'UbX'\&'hc 'XYa\ cbghfUhY'g_]``g']b'X]ZYfYbh]bhYfdfYh]b[\ 'a\ cXYg$

Hi fb]hjb gYhjb[. H\]g Ugg][ba Ybh]g gi Va]hYX h\fci [\ Hi fb]hjb UbX gh XYbhg Xc bchgYY Hi fb]hjb

g]a]`Uf]hmfYdcfhg"

5ggYgga Ybh' . *\equiv \text{!WUgg UggYgga Ybhc Z'V]`]b[i U`]bhYfdfYh]b['g_]``g

GhUfhXUhY. Bch5dd`]WUV`Y

8 YHU]`g. `C b[c]b[`]b! WUgg`UggYgga YbhcZ]bH/fdfYh]b[`g_]``g`]b`X]ZZYfYbha cXYg`Xi f]b[`h\Y``Ub[i U[Y! gdYW]Z]Whi hcf]U`g"Ghi XYbhg`UfY`bch]Z]YX`]b`UXj UbWY`cZh\Y`UggYgga YbhWf]hYf]U`UbX`YI dYWfUh]cbg"`H\Ym fYWY]j Y`Zcfa Uh]j Y`ZYYXVUW_fY[UfX]b[`h\Y`dfcWYgg`UbX`dfcXi Whh\fci [\ci hh\Y`gYa YghYf`k]h\`fY[UfXg`hc j Uf]ci g`g_]``g`UbX`a cXYg`cZ]bhYfdfYh]b[": YYXVUW_]g`dfcj]XYX`]bX]j]Xi U``mUbX`hc`h\Y`WUgg"

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

H\]g^]g^]b^cb[c]b[~WUggfcca~UggYgga YbH

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

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gh XYbhgʻUfYʻYl dYWYXʻhcʻdi hh\Y]fʻbUa YgʻUbXʻgh XYbhbi a VYfgʻcbʻYj YfmdU[YʻcZh\Y]fʻUgg][ba Ybhgʻ

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

#mci YbWci bhYf'U'dfcV`Ya k \Yb'UhYa dh]b['rc'gi Va]hmci f'Ugg][ba Ybhh\fci [\ 'Hi fb]h]bž'd`YUgY
hY`Yd\cbY'9I hYfbU`Gi ddcfhcb'-',) "''' %cf'Ya U]`'h\Ya 'cb'<u>YI hYfbU`hY`hgi ddcfh4 i bgk "YXi "Ui"</u>"'Gi ddcfh
\ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-').\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUft!" #mci
UfY'i bUV`Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZUi `hk]h\ 'Hi fb]h]b'mci 'a UmUdd`m'Zcf'Ub'YI hYbg]cbž'Vi hmci
a i ghfYhU]b'mci f'h]W_Yhbi a VYf'Zfca '9I hYfbU''Gi ddcfhfU'cb['k]h\ 'Ubmch\Yf'fY'Yj UbhXcW a Ybhgt'hc
]dU XYb

- K cf_'gi Va]hhyx'%5'hc'% 'XUmg'UZhYf'h\Y'gh]di `Uhyx'XYUX`]bY'k]``'VY'UggYggYX'UbX'ZYYXVUW_dfcj]XYX'Vi h'U'a Uf_'cZnYfc'k]``'VY'fYWcfXYX'''=Zh\Y'k cf_'k ci `X'\Uj Y'fYWf]j YX'U'dUgg'a Uf_'Vi h'Zcf h\Y'`'UhYbYgg'UbX'h\Y'k cf_']g'U'Wca di `gcfm'Wci fgY'Wca dcbYbh'f\i fX`Y'fYei]fYa Ybhz'U'gh XYbh'k]`` VY'XYYA YX'hc'\Uj Y'a Yhh\Uh'fYei]fYa Ybh/
- K cf_'gi Va]hhYX`&\$`cf`a cfY`XUmg`UZhYf`h\Y`gh]di `UhYX`XYUX`]bY`k]```bchVY`UWW\dhYX`Zcf UggYgga YbhUbX`k]```fYWY]j Y`bc`ZYYXVUW_ža Uf_'cf`[fUXY"'=Zh\Y`UggYgga YbhHUg_']g`U`Wca di `gcfm Wca dcbYbhcZh\Y`Wci fgY`U`gh XYbhk]```fYWY]j Y`Ub`l bgUh]gZJWcfm: U]``fl : Ł`[fUXY`Ug`U`fYgi `hcZ i bgUh]gZJWcfmdYfZcfa UbWY`]b`Ub`YggYbh]U``Wca dcbYbhcZh\Y`Wci fgY"

H\]g']bZcfa Uh]cb']g'U`gc'Uj U]`UV`Y'Uh

\hdg.#k k k "Uffg"i bgk "YXi "Ui #W ffYbhgh XYbhg#UWJXYa]W]bZcfa Uhcb#dfchcWc`g![i]XY`]bYg#

GdYWJU`7cbq]XYfUhcb5dd`JWUhcbq

 $\label{thm:condition} $$Mci `WUb`Udd`m'Zcf'gdYW]U``Wcbg]XYfUh]cb`k \Yb`]``bYgg`cf`ch\Yf'W]fW a ghUbWfg`]bhYfZYfY`k]h\`mci f UggYgga Ybh'dYfZcfa UbWf''$

G]W_bYggža]gUXj Ybhi fY'cf'ch\Yf'W]fW a ghUbWrg'VYmcbX'mci f'Wcbhfc``a Um

ł DfYj Ybhmci Zfca Wca d`Yhjb[U Wci fgY fYei]fYa Ybhž

ł? YYd mci Zfca 'UttYbX]b['Ub'UggYggUV'Y'UWt]]tmž

ł Ghod moi igi Va]hh]b[iUggYggUV Y k cf_ Zcf U Wci fgYž

ł G][b]ZJWUbhmiUZZYWimci fidYfZcfa UbWY]biUggYggUVYkcf_žVYjhUiZcfa U`YbX!cZgYa YghYfiYl Ua]bUhjcbžU WUggihYghžU`UVcfUhcfmhYghžU`gYa]bUfidfYgYbhUhjcbicfiUbmch\YfiZcfa icZUggYgga Ybh'

cfilia fth Yfixyfuljgi]bify`uhjcbihciGdYWju`i7 cbg]XYfuhjcbi]bWi X]b[iiK \Ybihci5dd`mižii<ckihci5dd`mi`ubXiiGiddcfhjb[i8cWia Ybhuhjcbiid`YugYifyZyfihcih\YiGdYWju`i7 cbg]XYfuhjcbik YVghjY.ii\hdg.#ghiXYbhibgk "YXii"ui #gdYWju`iWcbg]XYfuhjcb

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

D`U[]Uf]ga `]g`i g]b['h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b['h\Ya `Ug`mci f`ck b"'=hWJb'hU_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b['hc`UWW]XYbhU`mWcdm]b['Zfca `U`gci fWY'k]h\ci hUW_bck `YX[Ya Ybh'

IBGK [fcidgdu[]uf]ga]bhch\YZc``ck]b[WuhY[cf]Yg.

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k]h\ci h'UW_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h'

±DUddfcdf]UhY`dUfUd\fUg]b[.'W\Ub[]b['U'ZYk'kcfXg'UbX'd\fUgYg'k\]`Y`acghmfYhJ]b]b['h\Y`cf][]bU`ghfi WhifY`UbX`]bZcfaUh]cb`k]h\ci hUW_bck`YX[YaYbh'H\]g'U`gc'Udd`]Yg`]b'dfYgYbhUh]cbg'k\YfY`gcaYcbYdUfUd\fUgYg`Ubch\Yf'g`]XYUg`cf'kcfXg'k]h\ci hWfYX]h''±iU`gc'Udd`]Yg`hc'd]YW]b['hc[Yh\Yf'ei chYg'UbXdUfUd\fUgYg`]bhc'U'bYk'k\c`Yžk]h\ci hfYZ/fYbW]b['UbX'U'ghi XYbh'g`ck b'UbU`mg]g`hc'Vf]b['h\Y`aUhYf]U`hc[Yh\Yf''

7 c``i g]cb. 'k cf_]b['k]h\ 'ch\Yfg'Vi h'dUgg]b['cZZh\Y'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U``k cf_"'7 c``i g]cb'U`gc]bWi XYg'dfcj]X]b['mci f'k cf_'hc'Ubch\Yf'ghi XYbhVYZcfY'h\Y'Xi Y'XUhYžcf'Zcf'h\Y'di fdcgY'cZh\Ya d`U[]Uf]g]b['Uh'Ubmh]a Yž'dUm]b['Ubch\Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa]WhUg_ž'ghYU`]b['cf'UWei]f]b[Ubch\Yf'dYfgcb'g'UWUXYa]Wk cf_'UbX'Wcdm]b[']hz'cZYf]b['hc'Wca d`YhY'Ubch\Yf'dYfgcb'g'k cf_'cf'gYY_]b[dUma YbhZcf'Wca d`Yh]b['UWUXYa]Wk cf_"

±bUddfcdf]UhY`W]hUh]cb.`7]h]b[ˈgci fW/gˈk \]WX`\Uj Y`bchVYYb`fYUXžk]h\ci hUW_bck`YX[]b[ˈh\Y`″gYWcbXUfm″gci fW/Zfca k \]WX`_bck`YX[Y`cZh\Ya`\Ug'VYYb`cVhU]bYX"

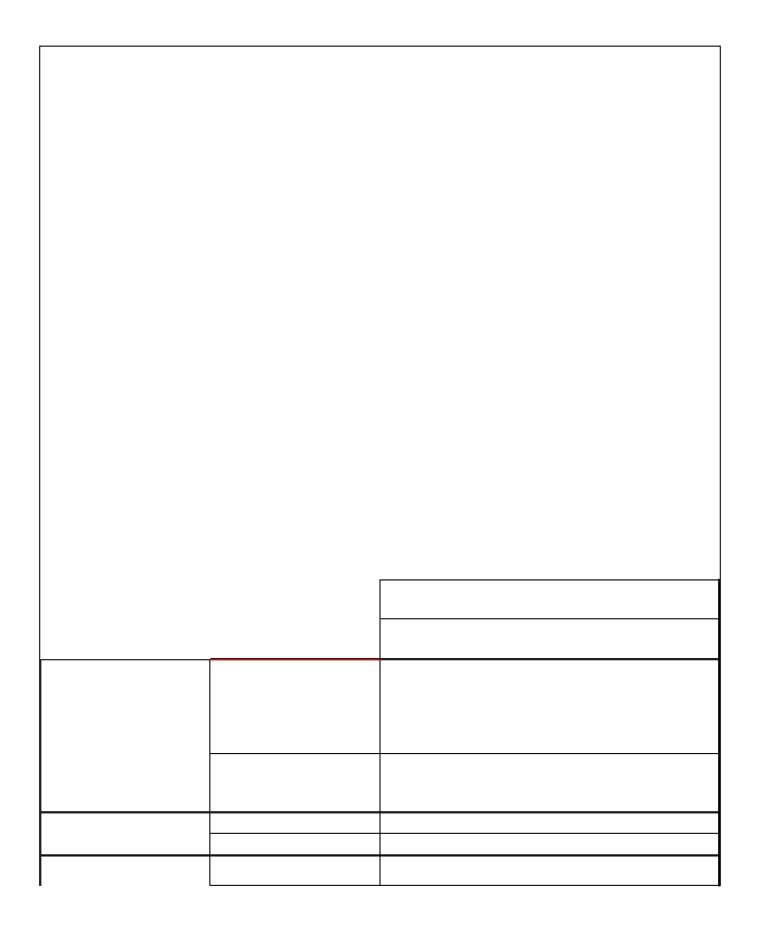
8 i d`]\WUh]cb`ff`gY`Zld`U[]\Uf]ga "Ł`gi Va]\h]b[`mci f`ck b`k cf_ž]b`k \c`Y`cf`]b`dUfhžk\YfY`]h\Ug`dfYj]ci g`m VYYb`dfYdUfYX`cf`gi Va]\hYX`Zcf`Ubch\\$f`UqqYqqaYYbhcf\\&f`UhI BGK `cf`Ubch\Yf`]\m' '

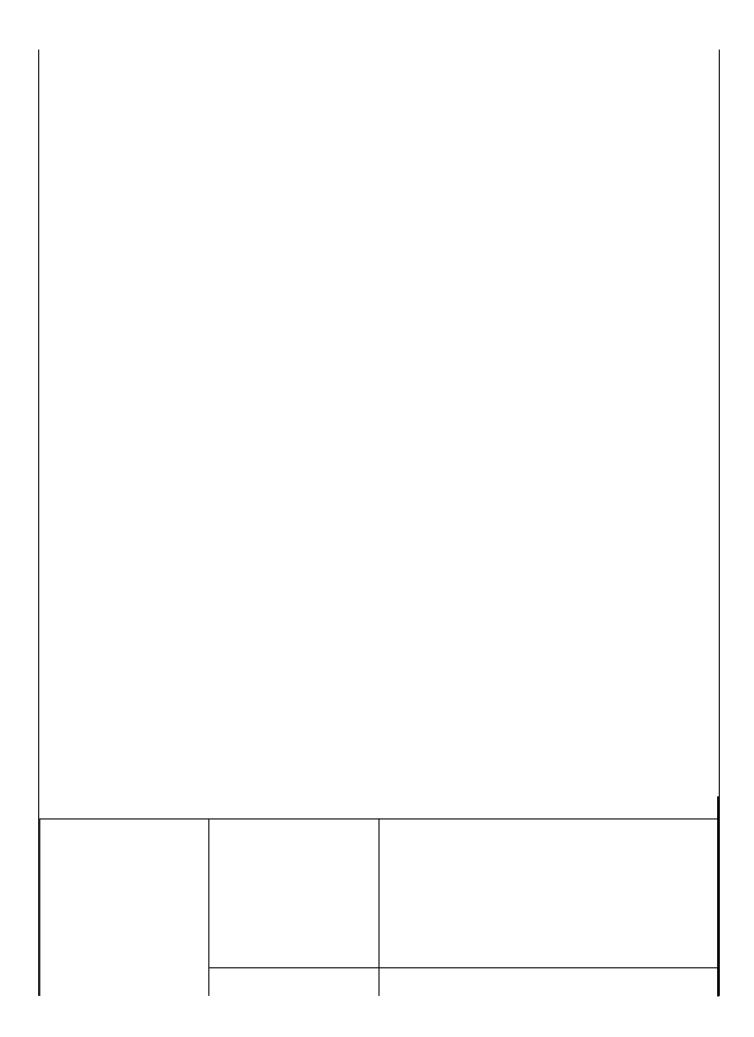
7 cffy Wrify ZyfybWjb['dfUWf)Wyg.

• DUfUd\fug]b[ž'gi a a Uf]g]b[ž'YggUmk f]r]b['UbX'r]a Y'a UbU[Ya Ybh

‰

• VYHYfa UbU[Ymcifh]a Y





| | | ₩ċbgYWiŊjY`]bhYfdfYŊb[|
|-------------------------|----------|--|
| K YY_"% ."&&"C WhcVYf"! | @YWn fY | K fUdʻi d. DfYdUfUhjcbʻZcfʻh\YʻUVWfYX]hUhjcbʻYI Ua |
| &, 'C WcVYf | GYa]bUf | 7 UgY`ghi Xm`]bhYfdfYh]b[`h\Y`cdYb]b[`UXXfYgg`]b`U |
| | | Wf]a]bU``WUgY |