CKQO(YP()

## +BCEC; H: CCB

 $(\% BX) (@K_MR)' ((\#^RO4ZZVSWKX^]OK^K_Q_Q^PP_{WKXKQOWOK^OK_VKYXX YPKNOMSJSYX^KUOX LC 'ROGXSONAK'SYX] 8X S_YXWOK^C_YQKWWO!nGA8Cn'' XY^Y OD'ONN RQ KZZYSX'WOK^LOCYXN 'RO ODZS_C YP RQ M_\OK^ MXX_KM#SKO%YX)^{XN} @Kc )' ((%)$ 

)% E\_L]Q\_OX\*V&#^RO4 ZZV\$MKX^ NOM\$NON YX (0 4 Z\SV)' (( ^Y]OXN KXY\*RQ \Q\_Q^ PX WKXKQOWOX^ O KV\_KSYX YP^RO]KWONOM\$JSYX%

\*% BX)' 4 Z\SV)' ((#^RO4 ZZVSMKX^PSYON KX KZZVSMKSYX a SR ^ROGXSON A KSYX] 7 SJZ\_^O F\SL\_XKV SX A KS\YLS ]00LSXQ ^RO ]\_]ZOXJSYX YP ^RO ]KWO NOMSJSYX%FRO KZZVSMKSYX a KJ ]Q` ON YX ^RODQ ZYXNOK^YX ^RO]KWONKc %

(8:**G**F

+% FRO 4 ZZYSWKX^ TYSXON /RO B\QKXSHKSYX YX \*<sup>\N</sup> @Kc )'' 0 YX K YXO cOK <%(WONSKOFQW 4 ZZYSXWOX^ K^/RO? \$, VO O#]/OZ, #KJ EOKSY\ FKJU @KXKQQ&E\_L C\YQKWWO6 YY\NSXKY\#7 S SJSYX YP8 X SJYXWOX'KVCY'SM <WZVOWOX'KSYX !n7 8 C<1" SXGA8C%

, % FRO 4 ZZVSNKX^ \OWNKON ^Y AKS YLS ^Y ^KLO \_Z RO, KJ SQXWOK^ KXN a Y\UON \_XNO, ^RO ]\_ZO, SJSYX YP 'RO 7 OZ\_^ 7 S,OMY\ KXN ; OKN YP 'RO 9\Q Ra KO, KXN FQ\Q^\SKV 5 \KXNR !9S]^ DOZY\'SXQ B HSNO," KXN 'RO 7 S,OMY\ YP 7 8 C< !EONIXN DOZY\'SXQ B HSNO,"%

 $\label{eq:started} \begin{array}{l} - \% & BX \end{array} , \ AY \ OWLO, \ ) \ ' \ 0 \# \ RO4 \ ZZV \$M \ X^WO^a \ SR \ RO, \ 9 \ ]^DOZY \ SXQ \ B \ HSMO, \ \ Y \ NS[M]] \ RO, \ WSN \ OW \ O \ SOa \ SX \ QZOM \ YPRO, \ ) \ ' \ 0 \ ) \ ( ' \ OSC4 \ E\% \ ) \end{array}$ 

. % BX(/ @K,MR)'('#'RO4 ZZVSMKX1] EOMXN DOZY,'SXQ B HSMQ, \OMYWWOKNON 'RK' GA8C Ob'OXN 'RO4 ZZVSMKX1] KZZYSX'WOX' PY, YXO KNNSSYXKV cOX,#'R, Y\_QR) @Kc)'((%

/% <X @K(MR)' ('#'RO4 ZZVSMKX'I] MYX\KM a KJ Ob'OKNON PY\ YXO c OK(#\_X'SV)<sup>XN</sup> @Kc)' ((%

 $0\% \qquad \langle X = XO \rangle' (' \# K^{S} K 5 \ WOOSXQ# RO 4 ZZYSWKX1] 9S ]^ DOZY ('SXQ B HSMQ) \\ \langle Q _Q 'ON KW ] 'KHP 'Y MYWZVOO 'ROS a Y U ZYKX PY 'RO )' (' $)' (( ZQ PY WKXMO MEMIO a RSMR RKNLOQ_X YX ( 4 Z SV)' (' %)$ 

 $('\% BX (/ =_XO)' (' # ^RO 4 ZZVSMKX^ WO^ a SR RQ 9S_]^ DOZY_SXQ BHSMQ ^Y \\ O SO RQ ZQPY_WKXMO PY_ ^RO ZQSYN @Kc )' ' 0 ^Y @K_MR )' (' %FRO 4 ZZVSMKX^ \\ OMOS ONKXY QKW_KSXQ YPnCK_SKWC WOO! ZQPY_WKXMOODZOMKSYX]n%$ 

 $((\% BX - 4_Q]^{)'}(' # ^{RO} 4 ZZ YS WKX^{WO} a SR RO, 9S]^{DOZY} (SXQ B HSMO, ^{Y} NS]M]] RO, OSC4 E KXN ^{RO} XOON ^{Y} MYWZ VO'O RO, )'(' $)'(( a Y_U ZVKX K] a OW K] MXXSX_SXQ ZYY_ZQPY_WKXMOS]_Q%$ 

 $()\% BX) + 4 Q_]^)' (' # RO 4 ZZVSMKX^ SXNSMKON ^Y RO, ]_ZO, SJY, ^RK^ ]RO RKN LOOX_XKLVO^Y KMMO] RO, OSC4 E PY, ^ROZ, O SY_] PY_\ a OOUJ Ya SXQ^Y KPKSV_\OYP RO, ZKJ] a Y,N%-X RSJ$ 

 $(, \% BX)(=KX_K_c)'((# RO 4 ZZVSMKX^a | YO KX OWKSV'Y RO, 9S)]^DOZY(/SXQ B HSMO, ]OULSXQ Q_SVKXMO YX RYa 'Y Z\YMOON a SR 'RO Y_MWO YP RO, OSC4 E KXN 'RO Z\OZK_KSYX YP KCO,PY\WKXMO<WZ\Y OWOX^CVKX%F RO 4 ZZVSMKX^]SQXON YHP RO, OSC4 E YX 'RO]KWONKc%$ 

 $(-\% BX * 90L\_K\c)'((\#^{RO4}ZZYSWKX1]9S\]^DOZY\/^SXQBHSWO\KN`SJONRO\/^RK^RO\MXX\KM`a Y_W XY^ LO \OXO ON LOCYXN`S] NKO YP ODZS\c PY\ k_X]KSJHKMY\c ZOPY\WKXM0%$ 

 $(. \% BX (, 90L)_K(c)' ((\# ^RO 4 ZZVSMKX^ WO^ RO, 9S)]^ KXN EOMXN DOZY/SXQ BHSMQ] ^Y NS[M]] ^RO KZZ KSJ KVYP RO, ZO PY WKXMO PY ^RO)' ' 0$)' (' O$C4 E MIMO% 7 _\SXQ ^RO WOO'SXQ ^RO 9S)]^ DOZY ^SXQ B HSMQ, SXNSMKON ^RK^ ^RO Y O KW KSXQ YP RO, O$C4 E a Y_WXY^LOMRKXQON%$ 

 $(/\% BX^{ROXOb^{NKc}\#^{RO4}ZZYSMKX^{a} YO^{Y}RO, 9S]^{DOZY}^{S}QBHSMO, SNSMKSSQ RKX^{RO} Q_Q_Q^{P}K^{RONO}OXZWOX^{Y}RCOPYWKXMO<^{Y}OWOX^{C}XKX a RSMR RKN XY^{LOOX KMUXYa VONQON%BX (. 9CL_K_c)'((#RO, ]_ZO, SJY, \OZYON ^{RK^{RO}}RO RKN XO Q \O_]ON ^{Y}NS[M]] ^{ROS]}Q YPRO ZOPYWKXMOKXN RKN WO^{a}SR RO, YX ^{R}OO YMMKJSYX] ^{Y}PYWKWE NS[M]] ^{ROOSC4}E%BX)' 9CL_K_c)'((#^{RO4}ZZYSMKX^{PSYON}KX SXMWZVOO\CL_^{KV}/KOWOX^{MRKWOKQSYQRO}KZZ\KSJKVPY\ ^{ROZQSYN}'' 0$)'((%$ 

 $(0\% BX ((@K,MR)'((#^RO9S,]^DOZY,^SXQ BHSMQ, MYXPS, WON ^Y ^RO; _WKX DQ Y_MQ) @KXKQOWOX^EQ`SMQ YP GABA !; D@E&GABA''(^RK^^RO4 ZZYSMKX1] MXX\KM1a Y_WXY^LO\OXO1 ONPY, k_X]KYSHKMY, c ZQ PY, WKXMQ %$ 

)' % BX 'RO ] KWO NKC # 'RO 4 ZZVSWKX' \_ZVYKNON RO, PSXKV a Y U ZVKX PY 'RO ZQPY WKXMOM MOOKNSXQ\*( @K NR)' ((%

) (% BX) (@K,MR)' ((#^RO4ZZYSWKX^]OK^K\Q\_Q^PY\WKXKQOWOK^O KV\_K'SYX YP^RONONSJ SYX XY^^Y\OKO4 RQ M\_\\OK^KZZYSX'WOK^a SR GA8 C%

 $<sup>(</sup>GABAZ,Y SNO KNWSSS \land KS O]_ZZY \land ] Q`SMO YGA8C$ 

))% BX/4Z\SV)'((#^RO4ZZYSMKX^WO^a SR RQ 9S,]^DOZY,'SXQ BHSMQ PX, 'RO WSN&QWOKY\_KSYX PY, 'ROZQSYN)'('\$)'((%, Q]\_ZQ`SJY,]'KON^Y 'RO4ZZYSMKX^ 'RK^ RQ ZQPY,WKXMO MXXSX\_ON 'Y a K,\KX^ YXYE K kCK,'SKWE WOO] ZQPY,WKXMO ObZOMKSYXJ1 \K'SXQ%FRO4ZZYSMKX'I] O\$C4 E PY, 'ROZQSYN)'('\$)'(( a K] SXSSKON KXN 'RO9S,]^DOZY,'SXQ BHSMQ \OPVOMONRSJ`SOa] SX 'ROO\$C4 E ]c]'OW PY, 'RO)'('\$)'(( ZQPY,WKXMOMEMIO%

)\*% 5 c KX OWKSV MA( $\underline{M}$  VKON a SRSX 7 8 C< SX 7RO WYX7R YP 4 Z/SV)' ((# ]7KP WOWLQ] a QO SXPY/WON 7RK' K WKYO MYWCKQ\_O SX 7RO: WLKVC/YQ KWWO YP 4 MSYX GXS' SX 7RO @K,SXO KXN 6 YK]7KV8 7<sup>M</sup>X 7RO @K,SXO

## $\label{eq:kappa} K_{Q} Q \quad \mbox{$RK^ WKXc $YP $RQ $MYWCKQ_Q$ $ObZ_Q$ON $n_RYMU $KXN $N_RQOWOK$n`$]$g$ $g$$

 $\label{eq:starses} ZK(^XQ) RSZ[2 Z Y SNO ^OMRXSMKV ]_ZZY ^ SX ^RO MKZKMS the SL_SWSXQ SXSSK'S Q 2 KXN ^Y NO OWZ K Q Y_MO WYLSSHKSYX ] ^ KOQt %$ 

- L%; Q, VOMQ] YP KZZYSXWOK] MICK, VE ] "KON "RK" "ROC NY XY" MIK, \c KXC ODZOMIKXME YP \OKO4 KV Y, YP MIX Q] SYX "Y KXc Y'RQ "cZO YP KZZYSXWOK" SX "ROEOMOK, SK" YP "ROGXSTON A K'SYX] %
- M% 8`SNOXNO]RYa] 'RK' 'RO 4 ZZVSMKX' ObZQSOXMON NSHBM\_VSO] SX 'RO NSJMRK QOYPRO, N\_'SOJ#KJ \OPVOMON SX RO, OSC4 E PX 'ROZQSYNJ )'' 0\$ )'(' 'Y)'('\$)'((%FRO 4 ZZVSMKX' RO,]OVP KNWSYON 'RK' 'RO,O a KJ XOONPX SWZ Y OWOX'%
- N% <X 'RSJ MXXXXMSYX 'RODQJZYXNOK' ]\_LWSJ 'RK' 'RO4 ZZVSMKX' \OMDS ON Q\_SNKXMOP, YW RQ ]\_ZQ' SJY, KJ KZZ, YZ, SKO%@ Y, OY Q, #'RO4 ZZVSMKX' a KJ KIPY, NON a SR WKXC YZZY, ^\_XSSQ 'Y PY, WKWE NSJM]] SJ\_Q \OKKSXQ 'Y RQ ZQPY, WKXM0%; Q ]\_ZQ' SJY, MKK, VE ObZ,QJON RSJ MXXMQXJ \OQK, NSXQ RQ ZQPY, WKXM0 KXN 'RO 4 ZZVSMKX' RQJOP \OMIQXSION 'RO XOON PY, SWZ, Y OWOK'%; O KJY P\_\'RQ Ob'ONNON RSJ SX SYKSYXJ 'Y NSJM]] RQ ZQPY, WKXM0 'Y a RSMR 'RO4 ZZVSMKX' XO Q KXJ a QON%
- 0% FRO 4 ZZVSMKX<sup>°</sup> NOKCON <sup>°</sup>RO Z<sub>1</sub>YMQ] YP EXKSSISXQ RQ OSC4 E P<sub>1</sub> <sup>°</sup>RO MIMO)<sup>''</sup>0\$)<sup>'</sup>(' Lc ]SQXSXQ S<sup>°</sup>YP YX)(=KX\_Kc)<sup>'</sup>((#KVRY\_QR <sup>°</sup>RO EOMXN DOZY<sub>1</sub><sup>°</sup>SXQ B HSMQ RKN ]SQXON S<sup>°</sup>YX(0 A Y OWLQ)<sup>'</sup>('%I SR \QZOM <sup>°</sup>Y <sup>°</sup>RO OSC4 E MIMO P<sub>1</sub>)<sup>'</sup>('\$)<sup>'</sup>((# <sup>°</sup>RO 4 ZZVSMKX<sup>°</sup>NSN XY<sup>°</sup> Z<sub>1</sub>Y SNO K a Y<sub>1</sub>U ZVKX SX K <sup>°</sup>SWO& WKXXQ # MKSWSXQ <sup>°</sup>RK<sup>°</sup>]RO M<sub>2</sub> W XY<sup>°</sup> KMMQ] <sup>°</sup>RO OSC4 E ]c]<sup>°</sup>OW%; Ya O Q# <sup>°</sup>RO 4 ZZVSMKX<sup>°</sup>XO Q NMM WOXON RQ SXKLS85c <sup>°</sup>Y KMMQ] <sup>°</sup>RO ]c]<sup>°</sup>OW Y<sub>1</sub> KXc K<sup>°</sup>OWZ<sup>°</sup>J <sup>°</sup>Y ]OM<sub>1</sub>\O <sup>°</sup>RO K]JS<sup>°</sup>KXMO YP <sup>°</sup>RO\OKO KX<sup>°</sup>ROZ NQU%

## P% 4] K \Q\_V YP 'RS NOKC 'RO 4 ZZYSMKX1] ]\_ZQ` S Y a KJ \_XKLYO 'Y NO OYZ K PY WKYZQ PY WKXMO SWZ Y OWOK' ZVKX PY 'RO 4 ZZYSMKX' KJ 'ROODS 'OMO YP Ka Y UZVKX a KJ KZ QQ\_SJ SO%

**Q**%

\_XT\_]^SPSKLVE NONKCON (RO\CL\_\_KVZ\YMQ]] SX\Q]ZOM YP RQ )'' 0\$)'(' Q\$C4 E%

## U% 9 Y\ 'ROKLY O\CK] YX]#'RODCJZYXNOK' WY CJ 'ROF\SL\_XKV'Y NSJ WSJ ] 'ROKZZVSMKSYX%

\* ' # 2 +/ )

) - % 9 Y\ 'RO Z\_\ZY]O YP 'RO Z\Q]OK' KZZVSMKSYX# 'RO a \S'OK ]\_LWS] SYX] YP 'RO CK('SQ] K\O'RY\Y\_QR KXN MWZ\OROX]S OKXN 'RO\OPY\O'ROF\SL\_XKVNOMSNON 'RK' 'RO\O a KJ XY XOONPY\ KROK\SXQ%

6 #34\*' &' %+3+0/5/-#6 (5-"

). % < A RO VQR^ YP A RO KWOQKSYX YP XYX ZO, PY WKXMO a KJ A RO Z YZO, Z YMON\_ \O \OKKSXQ YZO, PY WKXMOKXN OSC4 E PYWYa ONB

)/% FRO DQZYXNOK KWOQQ ZYY ZQPY WKXMO YX 'RO ZK ' YP 'RO 4 ZZYMKX'' GXNO, ]OMSYX / % YP EF & &: ') & #S'SJ MCK & ]'KON 'RK' ( @@=<0@>4?5=?; 0<24 @==?A2=; &66@0?4 & 4<5843! A74 ) & @A-4>=?A8-6 + 5524? @=B:3 38@B@@A74 @#B0A8=< D&F A74 @055 ; 4; 14? 0<3 A094 @4>@A= ?42ASE A74 @#B0A8=<%4 NWS'ON&# 'RO,OSJ O SNOMO'Y ]RYa 'RK' SX SXJ 'KXMOJ YP NSHSM\_VSOJ KXN&\ ]RY 'MYWSYOJ ]ZY''ON Lc 'RO 9SJ ^ DOZY 'SXQ B HSMOJ Y, L\Y\_QR' 'Y RSJ K'OK'SYX Lc 'RO 4 ZZYMKX'# KZZ YZ SKO Q\_SNKXMO a KJ Z YPO \ON 'Y RO,%<X AY OWLO, )'' 0# PY OKWZYO# K' 'RO WSN\$'OW \O SOA # 'RO 9SJ ^ DOZY 'SXQ B HSMOJ WO' a S'R 'RO 4 ZZYMKX' 'Y NSJM]] RO ZO,PY WKXMO% 7 \_\SXQ 'RO WOO'SXQ# 'RO 9SJ ^ DOZY 'SXQ B HSMOJ KN SJON RO, 'RK' SWZ Y OWOK' a KJ XOONON SX \QZOM YP RO ZKXXSXQ KXN Y QKXSHKSYXKV JUSWJ% E\_LJQ\_OK'VE# SX 'RO WYX'R] YP =\_XO KXN 4 \_Q\_]^)' (' # 'RO 9SJ^ DOZY 'SXQ B HSMOJ WO' KQKSX a SR Q )0% 6 YXMQXSXQ 'RO)' (' \$)' (( OBC4 E MEMIC# a RSOS'S S) MICK, 'RK' ]RY, 'MIWSXQ MIXXSX\_ON 'Y LOL, Y\_QR' 'Y 'RO K'OK'SYX YP 'RO 4 ZZYSMKX' \$] \$] KJY MICK, P, YW 'RO O SNOKNO KNN\_MON 'RK' 'ROZ, 'YMQ] a KJ XY' MIXN\_MON SX K 'SWO& WKXXQ, %FRO WSN\$ ZYSX' \O SO # PY, 'O KWZYO# 'YYU ZYKNO YX / 4 Z, SV)' (( [\_SO KPQ, 'RO ON YP MEMIO \CZY, '%FRO DQ ZYXNOK' MKXXY' Q] MKZO \Q ZYXJSLSYSE PY, 'RONOKC] 'RK' 'YYU ZYKNO LC MKJ 'SXQ KW'ROLYKWO YX 'RO4 ZZYSMKX' PY, 'ROKL] ONNO YP Ka Y, UZYKX KXN 'RONOKC SX JSQXSXQ RQ OKC4 E N\_\SXQ 'RO \OO KX' \CZY, 'SXQ ZQ, SYN%FRO ]\_QQ 'SXX 'RK' 'RO KL] ONNO YP K a Y, UZYKX a KJ ]YYOE 'RO HK\_V YP 'RO 4 ZZYSMKX' MKXXY' LO ]\_]'KSXO % EOMSYX. % YP EF & & 'Y' ) & \CKN] KJ PYWYA ]1/<u>8 4:E8 >:4; 4<40.48=<</u> =50::: 0@42.4@=5 A74 , ( . 5=?; @0<3 34C4:=>; 4<A=5?4; 4380: 02.48=< B<34? @2.48=< ' #76 '!' @@ D&F A74 @B>4?C8@? 02.48=6 0@A74 58'@A ?4>=?48<6 =55824? B<34? @2.48=< &#5 % !! 8 WZRKJS KNNON'

\*' % 9 Y\ 'ROKLY O\OKJ YX]#'ROF\SL\_XKVSJ YP'RO`SOA 'RK' 'ROSWZ\_QXON NOMSJ SYX SJ >?8 0 50284 PKA ON KXN 'RQOPY\O\_XKA P\_W6FRO DOJZYXNOK' NSN XY' 'RY\Y\_QRV PYWYA SJ YA X\\_VOJKXN&X Z\KMSMOJ 1

- K% 5 c NONINSKQ XY^ Y \ONOA 'RO 4 ZZYSMKX1] KZZYSX'WOK^ a SRY\_^ KWYa SXQ 'RO\OL ^KYZ\YMO] ^Y LOM/WZVOON%
- L% 5 c S] HSY\_\O^Y OX]\_\O K ^SWO& SWZYOWOX\*KSYX YP ^RO)' (' \$)' (( O\$ C4 E%

52) '/ %7 '-'. '/4

\*(% ESXMO/ROMXX\KM YP/ROKZZVSMKX^S] N\_O/Y MYWO/Y KX OXN YX) <sup>XN</sup> @Kc )'(( /RS] O/OWOX^S] ]KS] PSON%

+2 2 ' 1 # 2 # \$ - ' &# . # ) '

\*)% 4] K\\_VOa RQONKWKQQ MKX KNQ \_KOK MYWZOX] KOKX KZZVSMKX^ SPROY\]RO SJ ]\_MMQ]]P\_V YX ^RO ]\_L]^KXYS O MKJO# KX SXYQ SW WOKJ\_\O a SW XY^ LO Q KXYON% ; Ya O Q, 'RK' \\_VO MKXXY' LO KZZYON SX KX KL]YV\_'O WKXXQ%I RQO KX OWZYCQ PYY\_'] RSJ Y\ RQ, Ya X \\_VQJ 'Y 'RO NO\SWOX' YP K ]'KPP WOWLQ RO Y\ ]RO MKXXY' LO KWYA ON 'Y QO' Ka Kc 'R\ Y\_QR 'RO M/WZOXJ KSYX MRKXXO%4 ] a KJ ]'KON SX / 03 = <98B\NQ GA7 F&' ' 0&(-

\* =<4A0?E2=; >4<@A8=< @=B:3 <=A140:::=D43 A= 14 B@3 0@0 2:=09 A= @84:3 D70A; 0E0>>40? A= 14 0 1:0A0<A0<3 B<50&? >?=243B?4 &< 0 3428@=<"; 098<6 >?=24@# <X'RO] KWOMKJOS`a KJ YLJQ` ONI (<4; >:=E4? D7= 8@2&2B; C4<A8<6 84@=D< >?=243B?4@=B67A<=AA= 14 01:4 A= 64A0D0E D87 A74 0?6B; 4<AA70A A74 >0E; 4<A=530; 064@D=B:3 14 @552&4<AA= 2=C4? 78@=D<D?=<63=&6#

%0/%53+0/

\*+% FROF\\$L\_XKVXY'Q 'RK' 'RODQZYXNOK' \$J Z\OZK ON 'Y O'OKN 'ROMX' KM YP 'RO 4 ZZV\$MKX' \$X Y\NQ 'Y KWYa 'RO \Q\_\_'KV Z\YMQ] YX 'RO )' ' 0\$)' (' 0\$C4 E 'Y QY 'R\Y\_QR%FRODQZYXNOK' P\_\'RQ \OMYQX\$IQ 'RK'\_ZYX 'ROO OK'\_KVP\$XK\\$IK\$YX YP RQ )' ((\$)' (( 0\$C4 E#'RO4 ZZV\$MKX' a \$WRK OPY\_\'OOK NKC] 'Y P\$VOK\Q\_Q^ PY\ \Q\_\_'KV \$X \QZOM 'Y \$`KXN a \$W#Z\_\]\_KX' 'Y EOM\$YX (, % YP EF & <\color{b}' (' & #LOOK'\$VON 'Y KX Ob'OX]\$YX YP RQ KZZY\$X'WOX' PY\ Z\_\ZY]Q YP MYWZVØ\$XQ 'R\$J KN\$Y\$YXKV\Q\_'KV Z\YMQ]%

\*, % 4 ZZVSMKLVO KNWSXS] \ KS O NOMSJSYX] K, O XY, WKWE ]\_]ZONNON ZONNSXQ WKXKQOWOK^ O KV\_KSYX%X ASJ ZK, ASM\_VK, MKJ O#AY KWYA ARO]\_]ZONJSYX AY NOZONN YX ARO WKXKQOWOK^ O KV\_KSYX A Y\_W MK\_]O SXT\_] ASMOSX KJ W\_MR KJ ARO \ OL\_MKVZ \ YMQ]  $\label{eq:argential} $$ Y a RSMR $$ RO4 ZZYSMKX^RKJ \Q Y\ON SJ XY^ cO^ Y LOMYWZYOON%FROF\SL_XKVODZOMJ $$ ROWKXKQOWOK^O KV_KSYX_XS^YVLOKJ $$ RSJ RKM $$ WSXN% $$ ROWKXKQOWOK^O KV_KSYX_XS^YVLOKJ $$ RSJ RKM $$ WSXN% $$ ROWKXKQOWOK^O KV_KSYX_XS^YVLOKJ $$ RSJ RKM $$ WSXN% $$ ROV KXKQOWOK^O KV_KSYX_XS^YVLOKJ $$ RSJ RKM $$ WSXN% $$ ROV KXKQOWOK^O KV_KSYX_XS^YVLOKJ $$ RSJ RKM $$ WSXN% $$ ROV KXKQOWOK^O KV_KSYX_XS^YVLOKJ $$ RSJ RKM $$ WSXN% $$ ROV KXKQOWOK^O KV_KSYX_XS^YYLOKJ $$ RSJ RKM $$ WSXN% $$ ROV KXKQOWOK^O KV_KSYX_XS^YVLOKJ $$ RSJ RKM $$ NYNKY $$ ROV KXKQOWOK^O KV_KSYX_XSYN $$ ROV KXKQOWOK^O KV_KSYX_XS^YYLOKJ $$ RSJ RKM $$ NYNKY $$ ROV KXKQOWOK^O KV_KSYY $$ ROV KXKQOWOK^O KV_KSYY $$ ROV KXKQOWOK^O KV_KSYY $$ ROV KXKQOWOK^O KV_KSYY $$ RSJ RKM $$ ROV KXKQOWOK^O KV_KSYY $$ ROV KXKQOWOK^O KV_KSYY $$ RSJ RKM $$ RSJ RKM$ 

\*- % : S OK 'RO KLY O VQKV MXXV[]SYX] YX 'RO  $Q_SOWOX$ ] PY ]\_]ZOX]SYX YP KMSYX KXN 'RODQZYXNOX']]'KXN K] a OWK] 'ROZYa Q] `Q'ONSX 'ROF $SL_XK$ %

+4 +3 4 \* ' 2 ' ( 0 2 ' &' %+&' & 4 \* # 4 !

\*. % FROKNWSXS  $\land$  KS ONONS SYXS ]\_]ZOXNON%

\*/% FRO]\_]ZOXJSYX]RKW\OWKSXSXPY\MO\_Z^Y(+a Y\USXQNKc]PYWYa SXQ^RONKO YX a RSMR XY'SPSMKSYX YP 'RO\OZY\^!]" YP 'RO DOL\_^KVCKXOV]" SJ&&O WKNO ^Y 'RO 4 ZZVSMKX%

!. *&*≪43"

=\_NQOHSXYN5 YYVOW

7 KON'RS]  $0^{\prime R}$  NKc YP4 Z\SV)' ((

 $8 X' Q ON SX' ROD OOS 'Q YX' RS ) 0'^R NKc YP4 Z SV ' (($ 

!. 86<43"

=CKX\$CO¥ 9 YWi 'i #DOQ§ \K,#AK\$\YLS