HA<G87 FG4G8F

FG8E?<A: <A9E4FGEH6GHE8% <A6(# FH5F<7<4E<8F 6BA78AF87 6BAFB?<74G87 54?4A68 F;88GF \$<[aU\b`N[Q`% RePR]a]R_ `UN_R QNaN% \$H[NbQVaRQ%

FG8E?<A: <A9E4FGEH6GHE8&<A6(# FH5F<7<4E<8F 6BA78AF87 6BAFB?<74G87 FG4G8@8AGF B9 6; 4A:8F<A FGB6>; B?78EFi 8DH<GL \$<[aU\b`N[Q`% \$H[NbQVaRQ%

FG8E?<A: <A9E4FGEH6GHE8&<A6(# FH5F<7<4E<8F ABG8F GB G; 8 6BA78AF87 6BAFB?<74G87 9<A4A6<4? FG4G8@8AGF =b[R,)&+)++

\$! N[Q`UN_R cNYbR` V[aU\b`N[Q`& RePR]a]R_ `UN_R QNaN% \$H[NbQVaRQ%

*(A4GHE8 B9 BC8E4G<BAF

5b`V[R`` FbZZN_f

 $BPJh \land U \ cWT \ R^] \ caPRcb \ d]STa \ f \ WXRW \ cWT \ 8^ PJh \ _TaU^a \ b \ f^aZ \ P[b^ R^] \ cPX] \ aTcPX]PVT \ _a^eXb^]b(\ GTcPX]PVT \ aTUTab \ c^ cWPc \ _^acX^] \land U \ ^da \ QX[[X]Vb \ WT[S \ U^a \ _Ph \ T]c \ Qh \ cWT \ Rdbc^ Ta \ _T]SX]V \ bPcXbUPRc^ah \ R^ \ _[TcX^] \ ^U \ cWT \ _a^YTRc(\ J \][Tbb \ aTbTaeTS& cWT \ 8^ P]h \ Pbbd \ Tb \ cWPc \ P[[\ P \ ^d]cb \ aTcPX]TS \ Qh \ Rdbc^ Tab \ d]STa \ bdRW \ _a^eXbX^]b \ PaT \ Ud[[h \ R^[[TRcXQ]T(\ 6c]]]$

| ERCR[bR 7V`NTT_RTNaV\[R^]caPRc ch_T4 | IWT U^[[^fX]V cPQ[Tb _aTb | T]c cWT 8^_P]hpb aTeT]dT | SXbPVVaTVPcTS Qh | ∖PY^a T]S \PaZTc P]S |
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.(6BAFB?<74G87 .)" BJA87FH5F<7<4E<8F

1(BG; 8E < AG4A: < 5?8 4FF8GF

 $I\ WT\ U^{[f X]V\ cPQ[T\ _aTbT]cb\ ^da\ PR\ ^dXaTS\ UX]XcT'[XeTS\ X]cP]VXQ[T\ PbbTcb\&\ X]R[dSX]V\ cWT\ fTXVWcTS'PeTaPVT\ dbTUd[\ [XeTb\ U^a\ PY^a\ X]cP]VXQ[T\ PbbTc\ RPcTV^ah\ P]S\ X]\ c^cP[4]$

 $9.05\,\mathrm{m}$ I WT U^[[^f X]V cPQ[T _aTbT]cb cWT c^cP[eP[dT aTR^V]XiTS X] D8> P]S aTR[PbbXUXTS Ua^\ 6D8> X]c^ TPa]X]Vb SdaX]V cWT cWaTT P]S bXg \^]cWb T]STS

*Ω(\$ (6

 $< SNCJ\%/ARED\ ONLOEMRASINM\ m\ 9\ daX]V\ cWT\ cWaTT\ P]S\ bXg\ \ ^]cWb\ T]STS\ ?d]T\ -*\&\ ,*\ ,\&\ cWT\ 8^\ \ P]h\ aTR^V]XiTS\ !\ ,\&---\ P]S\ !\ .\&O\ ,3\&\ aTb_TRcXeT[h\&\ ^U\ bc^RZ'QPbTS\ R^\ \ T]bPcX^]\ Tg_T]bT\&\ P]S\ SdaX]V\ cWT\ cWaTT\ P]S\ bXg\ \ ^]cWb\ T]STS$

*0(F8:@8AG<A9BE@4G<BA

 $IWT \ 8^{-P}hbb \ X]cTa]P[\ P]S \ _dQ[XR \ bTV \setminus T]c \ aT_^acX]V \ PaT \ P[XV]TS \ QPbTS \ d_^] \ cWT \ bTaeXRTb \ ^UUTaTS \ Qh \ &cb \ ^_TaPcX]V \ bTV \setminus T]cb(\ L \ &cwT \ 9TRT \setminus QTa \ -*k \ ,* ,+ \ PR \ dXbXcX^] \ ^U \ ETcX[[^k \ cWT \ 8^{-P}]h \ aTP[XV]TS \ &cb \ ^_TaPcX]V \ Va^d_b \ c^ \ aTU[TRc \ P]PVT \setminus T]cpb \ _aTbT]c \ ^eTabXVWc \ ^U \ ^_TaPcX^]b(\ 6UcTa \ aTP[XV] \setminus T]cb \ cWT \ 8^{-P}hpb \ ^_TaPcX^]b \ R^]bXbc \ ^U \ cWaTT \ aT_^acPQ[TbTV \setminus T]cb4 \ :'>]UaPbcadRcdaT \ H^[dcX^]bk \ IaP]b_^acPcX^] \ H^[dcX^]bk \ P]S \ 7 \ dX[SX]V \ H^[dcX^]bk \ fXcW \ cWT \ T^[acPc \ b \ TaPcX^]$

BI8EI<8J

; EUEMTER Z GTeT] dTb f TaT !/+*(0 \ X[[X^] U^a cWT bTR^]S `dPacTa ^U ,*, & P] X] RaTPbT ^U !+*2(3 \ X[[X^] ^a ,1(+ " R^ \ _PaTS f XcW cWT bTR^]S `dPacTa ^U ,*, , f Pb SaXeT] Qh P !+*3(2 \ X[[X^] X] RaTPbT X] :' >] UaPbcadRcdaT H^[dcX^]b \$X] R[dSX] V !10(* \ X[[X^]]

 $C4EG \ll hBG$; $8E \ll A9BE@4G \ll BA$

<aRZ *(*75141,1+0 J V*5517 H H O H H V L H H H

F<: A4GHE8F

 $EdabdP]c\ c^{\ }cWT\ aT^{\ }dXaT\ \ T]cb\ ^U\ cWT\ HTRdaXcXTb\ :gRWP]VT\ 6Rc\ ^U\ +3-.\&\ cWT\ aTVXbcaP]c\ WPb\ Sd[h\ RPdbTS\ cWXb\ aT_^ac\ c^{\ }QT\ bXV]TS\ ^]$