

CNR) \ S*(

6NRA\ &HA7 G'A5 <*(>('+*
=>bQIZR\ aA\ &HA7 G'*('))'(1+

)& B[)/ 4 bTb`a *((/ \$ aUR 4]] YPN a SVRQ N PYNZ d VU aUR => V a 4]] RNY
5 \ NQ "l=>4 5 n# P[aR aVT aUR [\ [%R Rd NY \ S UV N] \ V aZR a d VU aUR H[VRQ
ANV[` 7 R cRY] ZR a C \ T NZ ZR S _ F \ Z NYW "l HA7 C F \ Z NYW n# & GUR =>4 5
ReNZ V RQ UV N] RNY Q b[N V \ b` Y QRPVQ a Z NR [\ _ RP \ Z Z R QNV [V SN \ b_
 \ S aUR 4]] YPN a & GUR FRP RaN f % R R NYR Q _ RQ aUR =>4 5 _ RP \ Z Z R QNV [N Q Q Q
 [\ aaNRN f Sb aUR NP aV [&

*& GUR 4]] YPN a SVRQ N N] YPNV [QNRQ *. @Nf *((1 d VU aUR S ZR
H[VRQ ANV[` 4 QZ V Va NV R G Vb [NY PUNYR TVT aUR [\ [%R Rd NY \ S UV SVRQ %
aR Z N] \ V aZR a ORF \ [Q *0 9 RO bNf *((/ "l aUR V] bT [RQ QRPVV [n# & B[,
7 RPRZ OR *((1 \$ aUR ER] \ [QR a R^ bR aRQ aUR S ZR H[VRQ ANV[` 4 QZ V Va NV R
G Vb [NY a QVZ V^ aURN] YPNV [V V R aVRaf &

+& B[) =>N bNf *(((\$ aURPN Rd N aN ` SR RQ

6NRA\ &HA7 G'A5 <*(>('+*
=>QIZR\ aA\ &HA7 G'*('))'(1+

- & B[* =>Y *((- \$ aUR 4]] YPN a WVRQ aUR HA7 C F\ ZNW&; R d N
N]\ V aRQ \ [N \ [R%fRN_*((%R_V P [a_NPa\$ N aUR ?%' , YcR\$ N C \ T_NZ ZR
@N NTR \ SaUR_RV aRT_NaV [\ SERb [V TERSbTRR N Q < aR [NY 7 V] YPRQCR \ ['
"IEE < Cn#C \ T_NZ ZR V F\ ZNW&

. & B[+ @NPU*((. \$N_R] _ aR aVRQ 1 I NMHF > +Q EN: MHG&3 >GMCK MHGH?
3 >MKGG@3 >N@>L: G- GMKG HR * HIE <=> 2 >KHGLm"l aURER] _ an\$P Z Z V V [RQ
Of HA7 C F\ ZNW N Q]_ R] NRQ Of ReaR [NYP [`bYN a \$d N] bOWURQ a]_ c QRN
IS_d NQX \ XVTN`R`Z R am \ SaUR]_ T_R` NPURcRQb [QR aUREE < C]_ T_NZ ZR
OEL\$SCH V Z V V [N QRe] PaRQ \ ba \ Z R &GUR- (%NIR_R] _ a` aNRQGMK: IB aUNa

15A> FBLHG TG=L M: MM> 33-* 2 I KH<M=HNF >GMBL HO>KR : F; BMNL BG
MFLHP M> LMM= HNMHF >L: G= HNMNM%W" -MLH? GMM M: M6 0 * 2 \$3 - * 2
A: L ; >>G KJN>LM= M I KHCB=> E: =>KLAB M M> HO>K IE PHKGG@ @KNI
& NF: GMBK G) HHK=BG NHG 4RLMF : MM> <HNGMR EO>D# BG=EN=BG@ M>
<HG>IM: HL: NHG: G= HK@ GB: NHG H? @KNG=SEO>EHI >K NHG EIE CGG@%G
IK <NB>#AHP >O#33-* 2 =HLGHM II > KMIA: O; >>G: ; E= MIMD> HGM>L>
MIDL#: G= BUL E <DHP E: =>KLAB : G= M-AGB: E: ; HMR HL <KBB>=> ; R HM>K
I: KVB: MG@86 0 (@G<BI9&n

/ & B[*. =>[R *((- \$ aUR 4]] YPN ak` N]\ V aZR a d N _R Rd RQ S_ ` V
Z \ [aU \$b [aW+) 7 RPRZ CR_*((. &

0 & B[+ =>Y *((- \$ aUR 4]] YPN a d N U `] VNYRQ V ANM OS> R f N Qb R a
`R_vb` URNa]_ ORZ` &B[1 FR] aRZ CR_*((- \$URd N R c N P b NRQ a G]_ [a \$6 N NQ
N Qd R a aU] bTUNZ NW_ URNa]_ RNaV [YR_V aUNa` NZ RZ \ [aU&

1 & < N YaR_ QNRQ * 4 bTb` a *((- \$ aUR 7 R] baf ER QR a ER]_ R R a NR
"C \ T_NZ ZR# @_&8_V BcRcRa "17EECn# `bOZ VaRQ aUR ER] _ a a aUR 9 V a
FRP_Rnf \ SaURE \ fNYA _ d RTW 8 Z ON` f \$d U V \ [R \ SaUR ZNW_ Q [_ a aUR
]_ T_NZ ZR&

6NRA\ &HA7 G'A5 <*(>('+*
=>bQIZR[aA\ &HA7 G'*('))'(1+

)(& B[*0 A\cRZ OR_*((. aUR4]] YPN a _RPRV RQ N`R] N_NaV[] NPXNTR S\ Z
aURHA7 C 5 R[RSW^ N Q8[aVYZ R[a` FR_c VPR "15 8 Fm#RSSRPaV R+(A\cRZ OR_*((. &
))& 9\ Yd VT Z RQPNY PRNN PR\$ aUR 4]] YPN a _Rb_ [RQ a ANA OV\ [*-
7 RPRZ OR_*((. &GUR HA7 C BSSPR d R_R PY` RQ S_ aUR 6 U_VaZ N ; \ YQN &; R
R`bR aRQ N Z RRaVT d VU @&BcR_R a\$ 7 EEC\$ @_&5_b[\ ? RZ N^bV\$ 6\b[af
7 VRPa _N Q @_&8_P ?NE\ PUR\$ ER VQR a 6 \ _QVNa _&4 Z RRaVT a \ X] YPR \ [0
=>N bNf *((/ d VU @_&BcR_cR a N Q @_&? RZ N^bV \ [Y & <[aUR P b_ R \ S aUNa
R[P b[aR_ \$aUR4]] YPN a PUNYR[TRQ aUR aR_Z VNaV[\ S

6NRA\ &HA7 G'A5 <*(>('+*

=bQIZR\ aA\ &HA7 G'*('))'(1+

) / & <[N YPaR_ a_ aUR HA7 C 4 QZ V Va_Na_ QNRQ*/ 4]_Y*((/ \$aUR 4]] YPN a
_R'bR aRQ NZ V Va_NaVR _Rc VRd \ S aUR QRPVV [[\ a a_ R Rd UV N] \ V aZR R a&; R
NYRIRQ aUNa aUR [\ [%R Rd NY \ SUV N] \ V aZR R ad UVR URd N \ [`PX YRc V YRQ
aUR] _c VV [` \ S4 QZ V Va_NaVR < ` a bPaV [FG 4 <*((-'+&

) 0 & <[N YPaR_ QNRQ) 0 =b[R*((/ \$aUR 7 VRPa_ N Q4 `` VaN a4 QZ V Va_Na_ \ S
aUR HA7 C 5 b_Rb \ S @N NIZ R R a_R YRQ [ORUN \ SHA7 C 4 QZ V Va_Na_ aUNa aUR
4]] YPN a QQ [\ a UNcRN_YUa a_ aUR ReaR ` V [\ SUV SQRQaR_Z N] \ V aZR R a N Q
aUNa UV NYRINaV [` d R_R [\ a S b [QRQ&

) 1 & B [) / 4 bTb ` a *((/ \$aUR 4]] YPN a YQIRQ N N] RNYd VU aUR ARd K \ _X
=4 5 & a d N S Y d RQ Of N_R] Y S \ Z aUR ER] [QR a QNRQ * + BPa OR_ *((/ N Q
Sb_aUR \ ORcNaV [` S \ Z aUR 4]] YPN a QNRQ) * A \ cRZ OR_ *((/ &

*(& 4 =4 5 CN RYP [cR RQ

6NRA\ &HA7 G'A5 <*(>('+*
=>bQIZR\ aA\ &HA7 G'*('))'(1+

K-E M= NH M> BGMH=N<MHG H? M> G>P LRLMF H? : =F BGMK MHG H? CNLMB>\$ UV PNR
UNQORR\ aN`SR_RQa aUR7 V] baRG_Vcb[N&

. N=B B E2 KH<>=>BGC

*, & B[) 1 =>Y *((1\$aUR7 V] baRG_Vcb[NYV`bRQNPNRZ N NIRZ R\ a\ _QR_ V
aUR]_R R\ aZ NaR "A\ &)+ "A5 <*()(##&GUR 4]] YPN a`bOZ VaRQ UV _R] Y \ [+(
4 bTb`a*((1 NaNPUVT N b[`V[RQ N Q b[QNRQ d V[R ` `aNIRZ R\ aS\ Z aURS\ ZR
6 UNZ N \ SHA7 C FaSS 4 ``\ PVAV[V AN\ O&; R NY\ Z\ cRQ aUR G_Vcb[NYa
URN_aUV Z NaR &GURER] \ [QR a`bOZ VaRQ UV _R] Y \ [aUR`NZ RQF N Q_R`bRaRQ
YR&RS\ Z aURG_Vcb[NYa `bOZ V NQQV\ NYQ PbZ R\ aNf Rc VR\ PR&

- & B[+) 4 bTb`a() \$aURER] \ [QR aSVRQNZ\ aV[a `a_VRaUR4]] YPN ak`
_R] Y a aUR _QR\$ NTbVT aNa aUR 4]] YPN a UNQ V UV _R] \ [`R QRcRY] RQ
NTbZ R\ a \ [aUR ZR_V N Q `bOZ VaRQ N VcNYQ d V[R ` `aNIRZ R\ a\$ d UPU d N
1 b[QNRQ\$b[`V[RQ\$b[`] RPSP\ SaURd V[R ` [NZ RmN QI YNTRY OM

_RaRM

\$laURl) R] \ [QR ak 1

a \ 1

6NRA\ &HA7 G'A5 <*() ('+*
=>QIZR[aA\ &HA7 G'*())'(1+

6NRA\&HA7G'A5<*(>('+*
=>bQIZR@aA\&HA7G'*('))'(1+

+, & 4 a aUR R Q \ S aUR URN V T aUR G V b [NYQV P a R Q aUR ER] \ [Q R a a] \ c V Q R
aUR GR Z ` \ S E R S R R PR " I G B E n # \ S aUR] \ T N Z Z R Z N N I R _ d U d N V P U N T R \ S
aUR [R d] \ T N Z Z R S _ Z b Y N R Q N S R _ aUR P Y ` b _ R \ S aUR EE < / C C \ T N Z Z R & < a
S b _ aUR _ R ` b R a R Q aUR] N a V a S V R d _ V a R P Y ` V T ` b O Z V ` V [` O f) (9 R O b N f * ()) &
5 \ aU] N a V P \ Z] Y R Q d V U a U V \ _ N Y _ Q R _ d V U V aUR ` P a Q R N Q V R &

+ & 4 ` _ R ` b R a R Q O f aUR P b _ a Q b _ V T aUR URN V T S aUR ER] \ [Q R a ` b O Z V a R Q N
] N a \ S U V P Y ` V T ` b O Z V ` V [` aUR S Y d V T N Q Q V [N Y Q P b Z R a 2

N & GUR cNP N P f N [\ b [P R Z R a S _ aUR] \ ` a \ S C \ T N Z Z R @ N N I R
EE < / C S R P b Z O R R Q O f aUR 4]] Y P N a &

O & GUR cNP N P f N [\ b [P R Z R a S _ aUR] \ ` a \ S C \ T N Z Z R @ N N I R
E R P c R f N Q F b ` a N V N O Y R ? V R Y U \ Q N a aUR ? % Y R c R B

P & GUR cNP N P f N [\ b [P R Z R a S _ aUR] \ ` a \ S C \ W P a @ N N I R
F \ Z N Y N Q N Q 5 N V E R I V [9 Y \ Q C _ R c R a V [N Q J N I R _ F U R Q
@ N N I R Z R a C \ W P a ` N a aUR ? % Y R c R &

+. & GUR 4]] Y P N a ` b O Z V a U N a U V P [a N P a d N a R Z V N R Q V c V Y a V [\ S U V Q b R
] \ P R ` _ M U a & R N T b R a U N a aUR V] b T [R Q Q R P V V [d N a X R V V Q N Q S M U S d U V R U R
d N \ [R Z R T R P f ` P X Y N c R S \ [aUR T \ b [Q a U N a aUR EE < / C] \ T N Z Z R d N a O R
] U N R Q \ b a & ; R O R Y R c R a U N a V d N N I a P X m \ [aUR] N a \ S H A 7 C F \ Z N Y N ` R V _
Z N N I R Z R a a _ R P Y N ` V f U V] \ ` a N Q U V R N \ aUR _ V Q c V b N & < a U V _ R I N Q S aUR
4]] Y P N a N T b R a U N 2

N & J U R aUR a N ` S _ Z N V [\ S aUR EE < / C] \ T N Z Z R d N
P \ Z Z b [V N R Q \ S S P W Y a aUR Q [\ _ O f Y a R _ Q N R Q * 4 b T b ` a * ((. \$
UR % N aUR C \ T N Z Z R @ N N I R _ %

4]] YPN[a Q R [\ a QV] baR aUNa aUR EE<7 C C\ T_NZ Z R d N _R UN] RQ
a\ CR_R] YPRQOf aURFb` aNPNOR? VRWU\ QC\ T_NZ Z RS\ Yd VT aUR
_RP\ Z Z R] QNaV[P[aNPRQ V N ReNBNaV[_R]_a QNRQ + @NPU
*((. &; \ d R:R\$` bPU _R]_a `U bYQ UNeR ORR] QVPb`` RQ d VU UZ
ORS _R VS _Z VT aUR Q [\ _ \ _ N f [R RYR \ ba` QR HA7 C F\ Z NYW&
9b_aURZ \ _R\$ HA7 C FR] V_ @N NTR` QQ [\ a VS _Z aUR 4]] YPN a
ORPN` RaURf UNQN bYR_V_Z\ aVR V NPaVT a `R] NNRaUR 4]] YPN a
S\ Z aURHA&

Q& GUR` R] V_ Z N NTRZ R] a aRNZ QQ [\ a Re] RPa aUR 4]] YPN a a _Rb []
Nsa_ UV ZNW_ URNa` b_TR_f N] Q V aR] `VR Z RQPNYPNR&GUR; bZ N]
ER\ b_PR 5 8F `R] a UZ N` R] NNaV[] NPNTR d UVR UR d N `aVYV
U`] VNYV G_ \ [a &B [+ (A\ cRZ CR_ *((. \$ aUR 7 R] baf ER QR] a
ER] _R R] aNaVR "B] R_NaV[`# PNPRQ UZ a NQ:VR aUNa aUR HA7 C
BSSPR d \ bYQ \ _TN VR aUR aN` SR_ \ S UV] R_ \ [NY ORY [TVT a
6 N NQ& R_Rb] RQa AN\ OVa PUNYR TRaUR QRPVV [[\ a a ReaR] Q
UV N] \ V aZ R] a d VU` R] V_ Z N NTRZ R] a\$ d UVR UR d N `aVY\ [`PX
YR&R&

+/& J UY a aUR 4]] YPN a NPX\ d YQIR aUNa aUR FRP_RaNf% R] R_NY UN N
QVP_RaV [Nf NbaU _Vf V aUR_R] Rd NY\ S N] \ V aZ R] a UR N_TbR aUNa V aUR] _R R] a
PNR `bPU NbaU _Vf d N Nb` RQ Of Z N NTRZ R] a&< UV cVd \$ ReaN] R] b` SNP a _
Z \ aVRNRQ aUR V] bT] RQ NZ V Va_NaVR QRPVV [&GUR] \ `a UR URQ\$ UR N_TbR \$ d N
_RN_N TRQ a Z NNR d Nf a N \ aUR_ VQeVbN&< aUV _R] RPa\$ UR NeR` aUNa aUR
ER] \ [QR] ac V YNRQ UV QbR] _ PR ` _MUa` V aURS Yd VT Z N [R_2

N& GUR_R NR RYZ R] a` \ S NOV_N_VR` N] Q OW d UPU V SBR] PRQ aUR
QRPVV [a aR_Z VNR UV P [a_NPa& GUR_R NR P] b [aR_cNWVT
PVPbZ` aN PR d VU V aUR Z RN] VT \ S aUR S _Z_R_ HA 4 QZ V Va_NaVR
G_Vob [NY=>bQIZR\ aA\ &00- \$, : G=>HF: G"] NNT_N U<<\$) 110#B

6NRA\&HA7G'A5<*(>('+*
=>bQIZR\ aA\&HA7G'*)'(1+

O& GUR ER]\ [QR [a c V YNRQ aUR HA 6 UNaR_ 4_aPVR)(& N Q `aNS
_RTbYNaV[)& "N# Cf [\ a _R] RPaVT aUR]_VPVYR \ S I V aRT_Vf\$
P\Z] RaR [PRN Q_R] RPaS_aURQM [Vf N Q UbZN _VTuâ \ SRcRf `aNS
ZRZ OR_m3

P& @\ _R VZ]\ _aN aY\$ aUR aRZ VNaV[\ S aUR 4]] YPN aâ N]\ V aZ R [a
d UWaURd N \ [`VPX YNRc V YNRQ` RPaV[+& \ SFG'4 <*((-' +&GUR
4]] YPN a N_TbR aUNa UR d N R [aVNRQ a N ReaR `V[\ S UV
N]\ V aZ R [a b] a aURZ N e V bZ R [aVYZ R [a \ S `VPX YNRc R b [QR_ `aNS
_bYR)(. & \ _*(. &\$S _Na aNY \ S `V Z \ [aU \ S `VPX YNRc R P [Z]_VRQ
\ S aURRZ \ [aU \ S SbY] N N Q aURRZ \ [aU \ S UNS%

6NRA\ &HA7 G'A5 <*(>('+*

⇒bQIZR[aA\ &HA7 G'*('))'(1+

NR Z N NTRZ H QY \ cR aURV] _RWQPRNTN\` a UZ &GUR_RNYVN

CNR)) \ S*(

6NRA\ &HA7 G'A5 <*(>('+*

=bQIZR\ aA\ &HA7 G'*('))'(1+

8cNBNV[_R]_adN]_R]NRQOf VQR]R]QR]aP[`bYn`a`\$a]_cQRN N`R`Z R]a

\SaUR]_T_R` NPURcRQb[QR_aURC_T_NZ ZR\$ V P%QVT ZNXVT_RP\ ZZ R] QnV[`

S_aUR Sbab_R&B[+ @NPU*((. \$N_R]_adN SVNWRQSVNWRQSVNWR& [V N

CNR)* \S*(

, , & 9b_aUR_Z\ _R\$ aUR ER]\ [QR a V \ S aUR cVRd aUNa aUR 4]] YPN a UN [\ a QVPUNTRQ UV Cb_QR \ S R aNOYUVT Nf P b [aRcNWT PVPbZ`aN PR d UVP U d \ bQ UNeRTVQR _VR a N_RN\ [NOY Re] RPaN Pf \ S N_R Rd NY \ S UV S VRQ%aR_Z P [a_NPa& HA7 C F \ Z NY\$ UR NcR` \$ UNQ [\ \ OXNv [a ReaR Q UV N] \ V aZ R a QR \ [Q UV Z RQPNYPNN PR\$ \ (+) =N bNf *((/ & ; \ d R cR \$ aURf QOQ ReaR Q aUR P [a_NPa N N NPa \ S` \ YQN_vf OLS\$OL aUR 4]] YPN ak` Z RQPNYP [Qv [&

, - & <[aUR YUa \ S aUR NO cR\$ aUR ER]\ [QR a`bOZ V aUNa UR QO [\ a Nb`R UV QVP_RaV [Nf NbaU_vf V [\ a R Rd V T UV N] \ V aZ R a&GUR QRPV [d N Z \ aVNRQ Of aUR SNPa aUNa aUR E 7 7 <C PY`RQQ d [a CR_R UN RQ V a NZ \ _R_RYcN a] _ WPa& 4 PP \ QV TY \$ aUR ER]\ [QR a NcR` aUNa UR QO [\ a aNR aUR P [aR aRQ QRPV [\ [aUR T \ b [Q \ SV] _] R_Z \ aVR \ _ReaN R b` SNPa &GUR 4]] YPN ak` _YUa d R RaUR RS _R [\ ac V YNRQ N QaUR V] bT [RQ QRPV [d N aNR V _R] RPa \ SaURN] YPNOR_bYR &

, . & J VU_RIN_Q P Z] R `Nv [\$ aUR ER]\ [QR a`bOZ V aUNa aUR 4]] YPN a V [\ a R aVRQ a CR_RV`aN RQ \ _] YPRQ \ [N \ aUR] \ `a P Z Z R `b_NR d VU UV] RcVb`] \ `a& R Sb_aUR_NcR` aUNa aUR 4]] YPN a V [\ aZ \ _RR aVRQ a Nf SV N P WY P Z] R `Nv [& <[aUR YUa \ S aUR NO cR\$ aUR ER]\ [QR a _R`bR a` aUR G_Vb [NYa QVZ V` aURN] YPNv [V V R aVRf &

, / & GUR 4]] YPN a URQN \ [RfRN_9VRQGR_Z 6 \ [a_NPaS \ Z * =bY *((- a * =bY *((. & V P [a_NPad N ReaR QRQNaUR`NZ RaZ R UR d R a a U`] V NYS _`R_Vb` Z RQPNY] _ OYZ ` V > R f N \$ NR_d UVP UR d N R cNpbNRQa 6 N NQN \ [1 FR] aZ CR *((. &

, 0 & GUR 4]] YPN a`bOZ V aUNa aUR P [aR aRQ QRPV [c V YNRQ UV QbR] _ PR ` _YUa \$`] R P V P N Y ` R PaV [+ & \ SFG'4 <*(((- '+ \$ CRPN` R UR d N NQc VRQ \ S aUR [[\ % _R Rd NY Qb_V T UV ` V X Y NcR & R NY \ NcR` aUNa aUR [[\ % R Rd NY \ S UV P [a_NPa d N ONRQ [[V] _] R_Z \ aVR & R NYRIR aUNa aUR ER]\ [QR a Z N V b YNRQ aUR] _ PR ` V \ _QR_a UVRN [Rd V Qv QbNY &

6NRA\ &HA7 G'A5 <*(>('+*

=bQIZR\ aA\ &HA7 G'*(()'(1+

, 1& GURG_Vcb[NY[\ aR aLREER]\ [QR\ ak` N_TbZ R\ a` aUNa aURV] bT\ RQQRPVV[
dN ZNR V NP\ _QN PR a` aUR N] YPNOR _bR` N Q aUR 4 QZ VVa_NV[k
QVP_RaV[Nf NbaU _Vf a` _R a_bPa_b_R] _ T_NZ Z R &9b_aUR_Z \ _R\$aUR4]] YPN aURQN
*((%R_R` N]\ V aZR\ a YZ VRQ a` `R_c VR d VU HA7 C V aUR PN NPVf \ S EE < C
C\ T_NZ Z R @N NTR_ N Q UV P [a_NPa QQ [\ a PN_f N f Re] RPaN Pf \ S_R Rd N&GUR
ER]\ [QR\ a N_TbR` aUNa UR UN `U d [T\ Q SNU Of T_N aVT aUR4]] YPN a N\ aUR
ad\ Z\ [aU\$ ORf\ [Q +) 7 RPRZ OR_ *((/\$ V \ _QR_ S_ UV a` SVQ NYR [NVR
RZ] YfZR\ a&

-(& GURP_be \ SaURZ NaR_ V d URaUR_ aLREER]\ [QR\ a cV YNRQ aUR4]] YPN ak`
_VUa` V aR_Z` \ S QbR] _ PR` N Q d URaUR_ aUR_R V R_c VR PR a` `bTTR a aUNa aUR
P [aR aRQQRPVV[d N Z\ aVRNRQ Of V] _] R_Z\ aVR NINV` a aUR4]] YPN a&

(HE>@ ~~HEGLH?~~ 7 ~~HE MHGH?~~ * N>2 KH<IL

-)& GUR 4]] YPN a PYZ` aUNa aUR ER]\ [QR\ a cV YNRQ `RPaV[+& \ S

-, & 5NRQ \ [aUR Re VQR PR\$ aUR G_VCb[NY[\ aR aLNa aUR 4]] YPN a UNQ ORR
Z NQR Ni NR \ SaUR [RRQ a _R UN RaURE77 <C] \ T_NZ ZR \ [. =bY *((. Qb_VT N
] U [RP [cR `NaV [d VUaUR; RNQ \ S5 b`VR ` 7 ReRY] ZR aH [V&GUR4]] YPN ad N
NaURaZR \ SaURReR a \ [`PX YNcR&

-- & ; RNY \ _RPRvRQN] U [RPNYS \ Z @_& NcVQ4 YR \ [*- BP a OR *((. V
aUR P b_R \ S d UPUUR d N NQcVRQ \ SaUR QRPVV [\ SaUR Q [\ _ a PY`R Q d [aUR
EE <7 C] \ T_NZ ZR RSRPaVR+) 7 RPRZ OR *((. &

-. & B [aUR [Rea QN\$aURER] \ [QR a P [`bYRQ d VUHA7 C; bZN ER \ b_PR
S_ V] ba V c Vd \ SaUR 4]] YPN ak` Z RQPNY` aNb` &8cR aU bTU aUR] \ WPa PY`RQ
Q d [\ [+) 7 RPRZ OR *((. N Q aLNa HA7 C F \ Z NUNQ [\ VaR aV [a ReaR Q aUR
N] \ VaZR a \ SaUR ` aSS Z RZ CR_ CRf \ [Q aUR R Q \ SaUR] \ T_NZ ZR \$ aUR 4]] YPN a
d N T_N aRQ N ReaR ` V [\ Sa d \ Z \ [aU S \ Z) =N bNf a *0 9RO bNf *((/ V c Vd
\ SaUR QRYPNR \] RNaV [URUNQ a T \ aU bTUN Q aUR [RRQS _ RP cRf aZR & U V
aR aZ \ [f ORS _R aUR P b_a\$ J V R ` ? RZ N ^ bV Re] YWRQ aUR _RN \ [` d Uf aUR
4]] YPN ak` N] \ VaZR a d N ReaR QRQ&; R `NQ aLNa \$ NSR_ QVPb ` V [` \$ aUR BSSPR
QRPVQRQ a ReaR Q aUR 4]] YPN ak` N] \ VaZR a V \ _QR_ a T vR UZ aZR a _Rb []
S \ Z UV ` PX YNcR N QSV QNR [NvRRZ] YfZR a&

- / & 8cVQR PR aUR RS _R ` bTTR a` aLNa aUR ER] \ [QR a a \ X V a NPP b [a aUR
URNu` VbNaV [\ SaUR 4]] YPN a&

- 0 & GUR G_VCb[NYQ R [\ a SV Q Re VQR PR aLNa aUR 4]] YPN a d N RSRPaVR
`R] NNRQ d UVR \ [`PX YNcR &4 QZ VaRQY aUR 4]] YPN a d N Z NQR Ni NR \ SaUR
S_ aUR Z VT

6NRA\ &HA7 G'A5 <*(>('+*
=bQIZR[aA\ &HA7 G'*('))'(1+

-1& GUR 4]] YPN a N_TbR aUNa UV P[a_NPa d N [\ a _R[Rd RQ ORPNb`R aUR
ER]\ [QR ad N[aRQa UVRN[Rd V QV VbN\ a _R] YPRUZ &

.(& GUR S\ _Z_R_ HA 4 QZ V Va_NvR G_Vb[NYUN P[\ `VaR[aY URQ aUNa aUR
FRP_Ra\ f% R[R_NYUN aUR QVP_RaV[a aNR QRPV\ [` V aUR \ cR_NYV aR_R a \ S aUR
B_TN V_NaV[` \ N a Z N\ aN\ \ _ V] \ cR aUR RSSRPaV R[R ` \ S aUR B_TN V_NaV[&{
* V >E-G-HNKM HA7 G'A5 <*((('))\$ aUR 7 V] baR G_Vb[NY _RNSVZ RQ `bPU N
QVP_RaV[Nf] \ d R\$ ^b\ aV T HA 4 QZ V Va_NvR G_Vb[NY=bQIZ R[a A\ &)) / \$ 7: G
=>K7: ED") 1. 0# V d UPU aUR G_Vb[NY aNRQ aUN\$ BM< GGMLN; LNMN/ BML CN=@F >GM
?HK M: MH? M> (=F BGLN/ MHG BG KLI >MMH K-HK@ GB: MHG H? I HML HK LM?? BG M>
BGMK>LMP? >HGFR: G= >?B-B-G-R&

.) & 9b_aURZ\ _R\$ V aUR PNR \ S 3: C"=bQIZ R[a A\ &+- (\$") 10- ## \$ aUR S\ _Z_R_
HA 4 QZ V Va_NvR G_Vb[NY=bQIZ R[a URQ

6NRA\ &HA7 G'A5 <*(')'+*
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6NRA\ &HA7 G'A5 <*(>('+*

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O& 7 vNaR_ vXZ N NTRZ R[a\$ aU\ bTU aUR_ RUNOYNv[\ S SY\ QP[[a\ Y
N\ Q\ aUR_ `Z NY\ S_N a b P a b` R N\ Q aUR P_ RNaV[\ S V_ VNOR Y\ Q\$ a b`
P_ RNaV\ T\]\]\ _ ab[WR S_ V]\]\ c\ VTP\ Z Z b[V\ Y\ RYU\ \ Q 3

P& Fb]]\]\ _ a aUR RZ R_ TR[PR\ S N c WOR]_ VNR` RP a\ _ d VU V] NPa [[WO
P_ RNaV[aU\ bTU R\ NOWT R[cV[[Z R[a S_ Ob` V R` R N\ Q S_ Z V\] %
S\ N\ PR` RP a\ _ n&

.. & <[P[[aNa\$ aUREE <7 C C\ T_NZ Z R UNQ N Z N\ Z N\ QNR a V] YZ R[a N
]_ T_NZ Z R S\ P b` R Q\ []\]\ c\ V\ T Q b_ NOR` \ YaV[` ` bPUN NQR^ bNR` \ PNY` R c VR
N\ Q RP [\ Z V]_]\]\ RP a` a R ` b_ R a Na_ P b] RR P\ Z R U\ Z R a ` a F N\ Q_ R V a RT_ NR
d RY V a aUR V P\ Z Z b[WR & GU_ RR\ S aUR d V\ R` R \$ @_ & B c R_ c R a \$ @_ & ? RZ N^ b V

QRcRY]ZR\ a Ψ P_VV P\ b[a_VR 3 SYBR Pf Ψ 8[TYVU d VU RePRYR\ a d _VVT `XVY3
X\ d YQIR\ S4 _NOP QR V\NOY3d _XVT Re] R_VR PR Ψ F\ Z NYWV N\ N` Ra&n

. 1& B[aUR\ aUR_ UN Q\$ V\N] RN` aUNaUR[Rd]\ `VW[` NQcRaVRQS _aUR[Rd
] _ T_NZ ZR "N]\ `a\ S4 ?7 % C\ WPa @N NTR_j F\ Z NYWV QN Q5 N_VERTV[NY9Y\ Q
C_RcR\ aV[N Q J NR_ `URQ @N NTRZ R\ a] _ WPà \$ N Q N]\ `a \ S ?% C\ T_NZ ZR
@N NTR_ ER\ cRf N Q Fb` aN\ NOR ? VRYU \ Q # _R`bVRQ Z \ _R ^bNYSVN\ [` N Q
Re] R_VR PR aUN aUR]\ `a R\ PbZ CR_RQ Of aUR4]] YPN a&A\ Q bOa aUR WOQR P_Y aV[`
S_ aUR R[Rd cNP\ PVR d R_RcRf QVSR_R\ a N Q _R`bVRQ ~~GMK~~: B Z \ _R Re] R_VR PR
N Q NQVSR_R\ a` Ra \ SP\ Z] R_R\ PVR & aUR YUa \ SaURN\ cR\$ aUR G_Vb[NYP [`VR_
aUNa aUR4]] YPN a QQ[\ a NQbPR `bSSVVR\ a Rc VR\ PR a `b]\ _a UV NYRIN\ [` aUNa
aURER]\ [QR ak QRPVV[d N Z \ aVNRQ Of P\ b[aRcNWT PVPbZ `aN PR &

/(& <aZN d RYORN XRD UF aUR4]] YPN ad U UNQ_Rb [RQS \ Z `PX YNR
Na aUR aZ Rd UR\ aURcNP\ Pf N [\ b[PRZ R\ a d R_R]\ `aRQ QQ[\ a N] Y S_ aUR [Rd
] \ `VW[`&J V\ R ` ?RZ N^bV aR aVRQ Na aUR URN_VT aUNa UR d N [\ a N\ NR d URaUR_
aUR 4]] YPN a N] YRQ S_ aUR [Rd] \ `VW[`&; R Sb_aUR_ Re] YWRQ aUNa aUR [Rd
] \ `VW[` QQ[\ a_R`bVR < C Re] R_VR PR \ [Y &

/) & < aUR YUa \ SaURN\ cR\$ aUR G_Vb[NYSVQ [\ Rc VR\ PR a `bTTR a aUNa aUR
QRPVV[aVR\ Of aUR FRP_RaNf % R\ R_NY [\ a a _R\ Rd UV N] \ V aZ R\ a c V YNRQ aUR
4]] YPN ak QbR] _ PR ` _YUa N Q aUNa V d N OW RQ \ _ Z \ aVNRQ Of P\ b[aRcNWT
PVPbZ `aN PR &

) & 9\ _aURS_ RI \ VT_RN \ [`SaURN] YPN aV [V_RWP aRQ &

6 NRA\ &HA7 G' A5 <*() (' +*
=>QIZR[aA\ &HA7 G'*())'(1+

!4B@>="

=>QIRI Ψ\ Q5\ \ RY

7 NRQaUV +) `^a QF \ S@NF *()

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CNR*(\ S*(