

H" HN>DEHF&C&<GKGC<HM&KFEDJ&
 D" HNO ;=IG&C>D&KFCF=KF=HCIIJ&C>CIJYG&FMG&DCFC&W<NO&C&<GKGC<HM&; <NZGHF&
 G" D=KKG O=>CFG&FMG&W=>D=>?K&W<NO&C&<GKGC<HM&; <NZGHF&=>QNFMLG<QCI&C>D&V<=FFG>WN<O&

+ % # % * # / , & 6 7 & : 6 + P % X 6] ^ # 9 , ! 2 # % &

3 NE<=>KF<EHFN<&V=II&CKKGGK&JNE<&CHM=GLGOG>F&NW&GCHM&NQZGHF=LG&=>&FMG&WNIINV=>?&VCJKB&

: NCIKX 6 QZGHF=LGK&	!>KF<EHF=N>CI& + HF=L=FJ&	+ KKGKOG>F&
C&_&G&	4=KHEKK=N>&V=FM&FMGK=K&HNOO=FFGG& HMC=<X&OGOQG<KU&HN>DEHF=>?&FMG&<GKGC<HM& <NZGHF&	6>_?N=>?&WGGDQCH\&W<NO& FMGK=K&HNOO=FFGG& HMC=<X&OGOQG<KU&DGWG>KG&NW& <NZGHF&QGWN<G&FMG& , MGK=K& 9NOO=FFGG&

2!!! 9 6 1 - % # & - # ` 1! - # * # / , % X + % % ! : / * # / , % B&

, MGK=KB&!>&HN>KEIFCF=N>&V=FM&C& , MGK=K&9NOO=FFGG&C>D&CDL=KN<U&FMG&KFEDG>F&V=II&
 HN>HG ; FECI=YGU&DGK=?>U&HN>DEHFU&C>D&D=KKG O=>CFG&C>&N<=?>CI&<GKGC<HM&; <NZGHF&<GICFGD&FN&
 G[G<H=KG&C>D&MGCIFM&KH=G>HG" & , M=K&; <NZGHF&V=II&QG&; <GKG>FGD&QGWN<G&FMG& , MGK=K&9NOO=FFGG" &

- A" , MG&KFEDG>F&V=II&W=<KF&DG>F=WJU&V=FM&CKK=KFC>HG&W<NO&FMG&?<CDECFC&CDL=KN<&W=>GGDGDU&C&
 ?<CDECFC&WCHEIFJ&OGOQG<&VMN&MCK&G [; G<F=KG&=>&FMG&C<GC&FMCF&FMG&KFEDG>F&K=>FG<GKFGD" &
- @" , MG&KFEDG>F&V=II&VN<\&V=FM&FMG&?<CDECFC&WCHEIFJ&OGOQG<&FN&KGIGHF&FVN&CDD=F=N>CI&?<CDECFC&
 WCHEIFJ&OGOQG<KU&=>F=CFG&C&; <GI=O=>C<J&OGGF=>?&V=FM&FMNKG&FM<GG&WCHEIFJ&OGOQG<K&FN&
 KGIGHF&N>G&NW&FMG&FM<GG&WCHEIFJ&FN&KG<LG&CK&M=K&N<&MG<& , MGK=K&9NOO=FFGG&9MC=<U&C>D&MCLG&FMG&
 NFMG<&FVN&KG<LG&CK&HNOO=FFGG&OGOQG<K" & , MG&HNOO=FFGG&HMC=<C>D&CF&IGCKF&N>G&HNOO=FFGG&
 OGOQG<&OEKF&QG&+ # \$ % &WCHEIFJ" & , MG&KFEDG>F&OCJ&KGIGHF&C&WNE<FM&; G<KN>&VMN&K&C>&G [; G<F&
 =>&FMG&W=GIDU&QEF&>NF&C>&# % % * & ?<CDECFC&WCHEIFJ&FN&KG<LG&N>&FMG&HNOO=FFGG&C>D&FM=K&WNE<FM&
 ; G<KN>&OEKF&KEQO=F&C&9 2 &FN&+ # \$ % &5<N?<CO&9NN<D=>CFN<&C>D&QG&C ; ; <NLGD&QJ&+ # \$ % &
 7CHEIFJ&QGWN<G&FMCF&; G<KN>&HC>&KG<LG&N>&C&FMGK=K&HNOO=FFGGU&=W&C ; ; <NLGD&QJ&+ 0 # \$ % &
 ?<CDECFC&WCHEIFJ&FMG>&FMG&; NFG>F=CI&HNOO=FFGG&OGOQG<&OEKF&FMG>&QG&C ; ; <NLGD&V=FM&
 ?<CDECFC&WCHEIFJ&KFCFEK&QJ&FMG& . % 1 & : <CDECFC&9NIIG?G" &
- a" 4E<=>?&FMG&=>F=CI&FMGK=K&HNOO=FFGG&OGGF=>?U&FMG&KFEDG>F&V=II&D=KHEKK&FMG&; NFG>F=CI&
 FN ; =HXKEQZGHF&WN<&M=K&N<&MG<&FMGK=K&; <NZGHF&!>&HN>KEIFCF=N>&V=FM&FMG&FMGK=K&HNOO=FFGGU&FMG&
 KFEDG>F&V=II&WN<OEICFG&FMG&<GKGC<HM&DGK=?>&C>D&DGFG<O=>G&FMG&W=>CI&WN<O&NW&FMG&; <NK ; GHFEK" &
- b" !F&=K&G [; GHFGD&FMCF&FMG&HNOO=FFGG&HMC=<&V=II&FC\G&; <=OC<J&<GK ; N>K=Q=I=FJ&=>&VN<\=>?&V=FM&
 FMG&KFEDG>F&FN&OC\G&C>J&<GcE=<GD&HMC>?GK" & 0 MG>&C&KFEDG>F&K&FMGK=K&HNOO=FFGG&
 <GHNOOG>DK&HMC>?GK&=>&FMG&; <NK ; GHFEKU&OGOQG<K&NW&FMG&HNOO=FFGG&V=II&>NF&K=?>&WN<OK&
 KMN V=>?&C ; ; <NLCL&NW&FMG&; <NK ; GHFEK&E>F=I&CII&NW&FMG&HN<<GHF=N>K&MCLG&CHFECIIJ&QGG>&OCDG"

HC>D=DCFGdK&FMGK=K&=K&G [; GHFGD&FN&<GWIGHF&HE<<G>F&DGLGIN ; OG>FK&<GICFGD&FN&FMG&FN ; =H&NW&KFEDJ"&
5<NHGDE<GK&EKGD&=>& ; E<KE=>?&FMG&HNO ; IGF=N>&NW&FMG&FMGK=K&OEKF&HN>WN<O&FN&FMG& ; <NHGDE<GK&

8" + 9 + 4 # * !9! / , # : - ! , 3 B&

&

#LG<J& . % 1 &KFEDG>F&=K&<GK;N>K=QIG&WN<&E;MNID=>?&FMG&;<NL=K=N>K&NW&FMG&%[F&EDG>F&9NDG&NW&9N>DEHFU&CK&](#);EQI=KMGD&

8!2" - #7# - # / 9#%X]!] P!6 : - +5\$ 3B&

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+OG<=HC>&5KJHMNIN?-HCI&+KKNH=CF=N>&R@)) (S"! "#\$&'(%)*+, ' * " '\$+)-+(./+0, /1%&' *+
!23&.)\$)4%&' \$+022)&'(%)*>+RT^{FM}&GD"S" O CKM=>?FN>U&4 "9"B&+EFMN<"&

&

]CEO?C<F>G<U&, " + "U&n &\$G>KIGJU&P" 4 "&R@)) TS"&?) *7"&(%*4+ ' *7+1/ '7%*4+1/2/ '1&. +
%*+./ '\$(.+ ' *7+. ", ' *+@/1-)1, ' *&/&] NKFN>U& * +B& * H : <CV_ \$=II&5EQI=KM=>?"&

&

]G<?U&. "#"&n &PCF=>U&- " O "&R@)) fS"&A22/*(% '\$2+)-+1/2/ '1&.+ , /(.)72+%*+./ '\$(.>+
@.32%&' \$+/7"&'(%)*>+/B/1&%2/+2&%/ *&/>+ ' *7+1/&1/ '(%)*+Ra^D&GD"S" &5M=ICDGI;M=CB&
P=; ;=>HNFFU& O =II=COK&n & O =I\=>K"&

&

,MNOCKU&^" - "U& / GIKN>U&^" . "U&n &%=ILG<OC>U&% "^"&R@)) eS"&C/2/ '1&.+ , /(.)72+%*+@.32%&' \$+
' &(%=(3"Re^{FM}
GD"S" &9MCO;C=?>B&\$EOC>&. =>GF=HK"&

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