

!
" #\$\$#%&'%()* (#+'&&!, -. / (00. -!. /! 1 '0&. -23!45(!67 (-'8#%!9%' + (-0'&2!. /!, #-'0!
: '-(8&. -3! ! "#\$"%&'(%&! %&!)*)+,&- ". (*%+*/&O\$12)"3!
600. 8'#&(1; <'&. -3! 4##+, "35&6)3\$(0%&'&\$&0*)"#*"3&0(*)+, "3&
: '-(8&(=-!<(!>=?\$8#&'! %07&89"&8(*: 1";, "&<";)"=">?+&<"; 1"&8(*: 1";, ">8(*: 1";, "@A&
@.); <'&. -3!B#"\$%#+\$)(#+,&C(,)\$*+,&O*)"#*"&4D3\$%+*\$3!
AB!C=#'!<DE-0#23!FGHHF!, #-'0!
00#1 2(-J #=>K-!



LHHM)>-(0(%&! !

LHSG>-(0(%&!

!

LHSG!

Z(1#2+%)"3&('&\$9"&O\$+\$"&)#&E#)\$"2&O\$+\$"3&6)3\$(%/7&8.)(<'&. -!| '&5!d# 7 (0!4!Q>#--. | !#%<!
b '\$\$# 7!X. +#!Y@5'8#P. !9%' +(-0'&2!. /!@5'8#P. !, -(00Z!

!

LHSG!

; <'&. -3! Z"/(#2&O\$+\$", "33& - ". (*%+*/

!
LHLH!

!
LHHM!! [, \$#8%P! Q. +(-('P%&2! : (7. 8-#&'8! 8#>'�! #0! #%! 9)3\$()%"LH%(D,`. "3\! ?+& <";1"&
8(*: 1":), "7&O. \$!oowO3!%x!L3!>>!BG)SSHK!!

!
LHHF!! [6!p=(0&' . %!. /!*'/(!. -!: (#&5`16<7%'0&-#&'+(!" . <'(0!#%<!6<7%'0&-#&'%P!" . <'(0!
'%! X'%(&((%&5)@(%&=-2! , #-'03\! '%! X)",23& ('& FGH"%\$)3"0& 4&! (. H+%+\$);"& 6)3\$(%/(& ('&
FGH"%&C>(*21%"3&)#&C+%3&+#2&?((#7&AfQO&\$(&H%"3"#&K!@K!] #?'(-3!(<K!Y@# 7?-<P(!
@# 7?-<P(!Q85. \$#-0! , -(00Z3!>>K!LBS)VSGK!!

!
LHHG!! [* . 8#&'%P!&5(!@(%&(-!@. %/'%'%P!#%<! : (/%'%P!&5(!@#>'&#\$!&5-. =P5!&5(! , #-'0'#!
U. -&'8#&' . %0K\&

"#: M!! 4&\$J@)8; .5)' \$6, &' ?&5-#\$\$\$. \$8K"5-.)5, # \$+; \$O)' + # \$ / #; 9\$-5-10#- \$+ # \$+ @ / & . - \$ "5- .)5; ; # - \$ # . \$ >) 85.5; ; # - \$ CEC_P
CFFC0! \$ % ! G * 6. R ^ - 26! K - > 6. H * ! !; 6+(30! @ + 26. E! a = '(. 0! " # : [N0! _ e [! 89! e # " 9! a6W (* + 3!
G6- + f3!
"#: M! ^)' . ,) 885' S \$ T & , 5- 3\$ 7, O # + \$ A , 1# - \$ & ' + \$ ^) ; ' . # , P , J # <) 8; . 5) ' B \$ C D E F P C E ` E \$! ^ * Y ! T = + O ! ! ^ T P ! ; + * 330!
" # : [N9! V % ! G = . 65W6. ! A = - 3 * 9! 1 W * I G = - + . 6! ! = ? ! U = E * + . ! A (35 = + % !
" # : [! 7' S 8# . # , # \$ # . \$ 7 O @ , 5 ; ; # \$ + & ' - \$ 8K " 5- .) 5 , # \$ 5 ' - . 5 ; . 5) ' # 88# \$ 6 , & ' ? & 5 - # B \$ C D E F P C F _ E ! ! ; 6+(3! ! a ^ < 70! " # : " N9!
V % ! ; (* + * R g 6) (* + ! V = % * + 9! a6W (* + 3! G6- + f3!
" # : [! U = . 6! & / = - 70! a ; # - \$ A # , 2! \$ 4 & \$ 85 V # , @ # . \$ 88 \$, & + 5.5) ' ! ! ; 6+(3! ! Z 6 " (26 + E 0! " # : [N! a6W (* + 3! G6- + f3!
" # : [! 7 - / 6 . . * ! K * 36. 0! 4 % . . ! A - . 5! 6. E ! h (" (6 2 ! U 6 D ! ^ * * 3 = . 0! ! " # \$ A , # ' 1 " \$ J # <) 8; . 5) ' \$ 5 ' \$ R 8) V & 8\$
T # , - > # 1.5- # \$ 1 ` 5W6 > 6! ! ! a = + . * * ! ! P . () * + 3(5% ! ; + * 330! " # : " N! C + * . > W! A (35 = + %
" # : e! i - * . 5(. ! K * ' - * + 2 = / 9! 4 # - \$ T) 8515# , - \$ + & ' - \$ 88 \$ < 588# \$ 4 & \$ 1) ' - . , ; 1.5) ' \$ + b ; ' \$) , + , # \$ > ; V 851 \$ G \$ T & , 5- \$ c C E _ ` P
C F C ` d \$! ; 6+(3! ! ; - \$ (> 65(= . 3! E * ! 6! 7 = + \$ = . . * 0! " # : " N! A R C + 6 . > * !
" # : e! G - (6 . ! h + (H W 5! 6. E ! A 979! G = . * 30! * E 390! T 8 ; , & 85- O \$ & ' + \$. " # \$ M + # & \$) 6\$. " # \$ J # > ; V 851 \$ 5 ' \$ A , & ' 1# ! 1 ; 6' H + 6) * 0!
" # : " N! a6W (* + 3! G6- + f3!
" # : e! aW6 + * 3! < * 6 + (> 09! T & , 5- \$ / , # & O - B \$ T & , 5- \$ % # O) , 5# - 3\$! " # \$ ^ 5.2\$ & ' + \$ 5. - \$ % 2 - . 5 ; ; # \$ 1756. ? = + E ! P . () * + 3(5%!
; + * 330! " # : : N! C + * . > W! A (35 = + % 9! !
" # : " ! G62 * 3! 19! 786 + + = Y 9! ! " # \$ (& , 6& , # \$ N . & . # \$ () , 8 + \$ (& , \$ M M \$ 7 O # , 5! & ' - \$ & ' + \$. " # \$ 7 S # \$) 6\$ Q 55 \$ R) < # , ' O # ' . !
! & D ? = + E ! ! & D ? = + E ! 1 . 8-56(7) 20 [T j E 4 2 1 (D ? =) 1 (T r ((7) 2 (8) T c 4 2 00) ' \$ + b 5 2 m & N + + + !

LHHA! , '(-[!]. 0#%+#\$. %k!89"&- ". (*+*/&('&-)3\$%13\$0B#3\$)\$1\$)(#3&+#2&C%+*\$)""3&('&! (1#\$\$%L C(,)\$)*3&
)#&6)3\$(%)^+,&C""%3H""\$);"k!! (1%3&+1&! (,`l"&2"&X%+#""!P'+(%!/. -!&5(!Q(#\$2!* (8&=- (0!#&!
@#7?-'<P(19%' +(-0'&2k!
LHHN! d(#%)^* =8!X#%82k! [45(!4 (85%'C=(! . /!&5(!, -(0(%&\!4-#%OK!6P%t0!: (-#\$)W7?(-&!
#%<!Q&(>5(%!b!k!Q#l 2(-k!W%!S#&i +=+%+0&C+)#)\$#l3&('&TQ&l "+%2k!X(! !g. -c!: #+'<!
b(-%(-k!!

!

&

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LHSB! | '85!. #0!, '&&2#35#-

k!@.)8. %+ (%(<!l '85!6\$?(-&!b=1#%<!&5(!" (\$/(-!@(%&(-!#&!
&5(!1#-+#-<!R(%%(<2!Q85. . \$k!V)<#2!%&(-%#&' . %#\$!8. %/(-%8(!l '85!. +(-!NH!
>#-&'8'>#%&0!/- . 7!#-. =%<!&5(!l . -<3!%8\$=<'%P!\$(#<'%P!085. \$#-03!#7?#00#<. -0!
#%<!<'P%'&#-'(OK!

!

LHSM! k!@.). -P#%'i (<!l '85!
E\$+(-!U(\$85#73!l '85!&5(!>#-&'8'>#&' . %!. /!, #=\$!, #&&. %!#%<!@5-'0&. >5(-!
" #-?. =-3!W, Q63!" -'0?#%(!6=0&-#\$#k!

!

LHSM! k!@.). -P#%'i (<!l '85!: #%'(\$!Q&('%7(&i)d(%c'%OK!4l .)<#2!
027>. 0'=7!. %!&5(!'%&(\$8&=#\$!5'0&. -2!. /!SBAM!#%<!&5(!/. \$\$. l 'P!<(8#<(OK!

!

LHSM! !

6=<'(-3!6%<-(I !d#'%85'\$\$\$!T'85#(\$!' (5-(%&3!T'85#(\$!Q8. &&!@5-'0&. /(-0. %K!
: (8(7?(-!F)MK!

!
LHSV!

!W%&(-%#&' . %#\$!027>. 0'=7!. -P#%'i (<!I '&5!Q&(+(%!, '%8=0!#%<!
8.)/= %<(<!?2!g#\$(!9%'+(-0'&2K!1 (\$<!#&!&5(!67 (-'8#%!9%'+(-0'&2!. /!, #-'0!
'%8\$=<'%P!d. 5%! : #-I '%3!: (07. %<!R'%P3!6%%'8c!* (7>e-'t-(3!d#7 (0!*'+(0(23!
, 5'\$>>(!T'%#-<3!b'\$\$'#7!X. +c3!d(#%)U-e<e-'8!Q85#=?3!d#7 (0!Q>#--. I 3!#%<!
: #+'<!4. <<K!

!
LHSS!

!W%&(-%#&' . %#\$!
027>. 0'=7!#&!&5(!67 (-'8#%!9%'+(-0'&2!. /!, #-'0!I '&5!b'\$\$'#7!X. +c3!d#7 (0!
Q>#--. I 3!, #&-'8c!* (a#\$ (03!]. 7#'%!1 =-(&3!X'8. \$#0!" #--(2-(3!X'8. \$#0!
: (\$\$#%<(3!, 5'\$>>(!" (i (03!Q#-#5!a(%0?=-P(-3!T#-8)

! LHSB! 89"&V%+#2&C+%30&! 1,\$1%+,&M),)"1&)#&9"&C%(*"33&('&M"\$%H(,)\$(+#)K+\$(#& 3!@=\$&=(0!#%<!a\$.?#&'i#&'.%! 27>.0'=73!. -P#%'i(<!?2!1(\$7=&!6%5('(-!#%<!])#h!W0#-3!: (8(7?(-K!

! LHSB! 4%*9+"(,(/&('89"&C+%3&E#2"%l%(1#2!! 3!Q27>.0'=7!.%!,#-'0) 670&(-<#7!9%<(-P-.=%<!.-P#%'i(<!?2!6%<-(!1!1=00(2!#%<!@5-'0&.>5(-! *'%<(-K!X.+(7?(-K!

! LHSB!! 89"&!1,\$1%&('&M"\$%H(,)\$(+#&-".(*"/0&O**#"3&('&M(D,)K+\$(#&)#&9"&V%+#2&C+%3& 3!WQ6!b. -\$!@!.%P-(00!.!Q.8'.\$.P2!Y%+&(<!#%<!/'%#%8(<! ?2!)(0(#-85!@.77=%&2!V3!d=\$2!SS)SF!



! LHSB! [45('!'&5!. /!&5(!: (7.8-#&'8!Q.8'#\$!@. %&-#8&3!SM5H)SMGH\!,. \$&'8#&!45(. -2! b. -c05. >3!Q&#%/ . -<!9%'+(-0&23!T#2!BK!

! LHSF!! [45'(-0!&!\$(!<-. 'a!<(1!\$#!e8(00'&e\F+\$3&2["G**H\$)(#3!W%0&'&=&!<De&=<(0!#+#%8e(0!<(! ,#-'OK!

! LHSB! q!;\$(!1#&e+2!. =!\$(0!: e/0!: (!*D_&#&! : e7.8-#&'C=(3!s!W%!5.%. -!./!&5(! >=?\$8#&'.%!. /!?[b%&2"3&\$/%#)"33!YT#0. %!"\$#%85(!^!Q=82)(%)"-'(Z3!LF! %.(7?-(!LHSA!

! @QAF& ?+&2N. (*+&)"#%\$(1;+D,"&?)"Dl%+,)3. "7&<NH1D,)*+&3. "&"\$&, &M*"H\$)(#&2&C)"%&&<(3+#+,;(#& +1G&F+\$3LE#)35*(0!;85#%P(0!1'0&. -'. P-#>5'C=(0!U-#%8.)67(-'8#%'07& . -P#%'i(<!?2!: #+'<!"(\$3!6%&. '%(!*'&!#%<! ,5'\$>X. -<& !V!%. +(7?-(! LHSAK

! LHSB! [U'08#&!U(<(-#&'07'!* .8#&! : (?&!#%<!&5(!@. %0&-=&8&'. %!. /!&5(!T. <(-!Q&#&(!'!&5(! 9%&(<!Q&#&(0!#%<!U-#%8(3\!V,(D+,&6)3\$(%&('89"&C(,)\$*3&('8C1D,)*&- "D3!) 3!,#-'03!d=%(!LHSA!

! LHSN!!!!!!!!!!!!!!!!!!!!!!["(2. %<!&5(!4.8C=(+'\$\$#%T2&5!]) (+0'&'%P!Q&. -(0!67(-'8#%0!#%<!U-(%85!4(\$\$! 45(70(\$+(0!6?. =&!'"P!a. +(-%7(%&K\!9%+(-0'&2!. /!@5'8#P. 3!: (#%00!Q#\$. %! /. -!&5(!: '+0'. %!. /!&5(!1=7#%&'(OK! 3!6>-'\$!SFK!

! LHSV! [6<.\$>5(!45'(-0!#%<!&5(!>#27(%&!./!&5(!U-#%8.) ,-=00'##%!I #-!-(>#-#&' .%0\! Q27>.0'=7!.%! 4&C(,)\$*+,&6)3\$(%&('8C1D,)*& - "D\$3 rF1%(H"&+#2&9"&E#)\$"2&O\$+\$"37&'%(. 89"&?+\$&F)19\$""#9&! "#\$1%/%h3& 3!d=%(!LN

!

LHSL! [O(-' < 8&'. %!#%<1&5(!*'?(-# \$!Q&#&(!. /!; f8(>&'. %!'%1 (-7#%!T (\$+'\$\$00!'' '\$\$2!'' =<<\!
Q(7'%#-! ?[NHN"&"\$&, +&H, 1. "3!
K!T#-85!GK!

!

LHSL! [, (%0(-! , #-'03! >(%0(-! \$(! >. =+. '-! *D_ &#&! (& \$#! +'\$\$(! 8#>'&#\$(! #=! oW o(! 0't8\$(\!
?s1%0+#)3+\$)(#&"#&! 9)#"&"\$&,s9)3\$)0%"&2"s1%D+#)3+\$)(#&2"&C+%0)3!6%%" (!" (-P(-&@=-'(!
Y@X] QZ3! y5=! o#. 2#%P! 晓Y9%+(-0'&e! " ('<#3! , ec'Z3! g=#%! y5'P#%P! 冈!]
Yze8. %. 7'0&(!9%'+(-0'&e!U=<#%3!Q5#%P5#Z3!6%%"(!U. =-8#=&!Y9%'+(-0'&e! , #-'0!
W! , #%&5e. %)Q. -?. %%(ZK!
!LA!h#%+'(-K!

!

LHSS! [45(!@#0(!. /!' '\$\$2!'' =<(!] (>-(0(%&#&'+(! T(%3! 4(--. -!#%<! &5(!*'?(-# \$! Q&#&(!. /!
; f8(>&'. %\!Q(7'%#-!OE] 4; o3!
K!
: (8(7?(-!SHK!

!

LHSS! [*#! , (&#&(! &-#+(-0e(! <=! a-#%<! , #-'OK! O(-0! =%(! #>>-(5(%0'. %! P\$. ?#\$(! <(0!
u# 7?'#%8(0D! <#%0! \$D(0>#8(! 7e&- . >.\$&#'%\! E%(!. /! &5-(! /'%'#&0&0! '%+'&(<! &. !
>-(0(%&! . =-!#-&'8\$(! / . -!#!>-'i (!YLGHH! (= . OZ!P'+(%!)?2!&5(!W%0&'&=&(! / . -!&5(!@'&2!
#%<!@. 77(-8(K!Q(>&(7?(-!LF!#&!&5(!
3!
!

!

LHSS! [X. &5'P!Q=88((<0! *'c(!U#'\$--(! * . 8# \$!W7>#8&!. /! a\$. ?# \$! T(P#); +(%&0! '%! X(! !
g. -c!#%<! , #-'0!%'&5(!! #c(!. /!/#\$(<!E\$27>'8!?'<0\!Y! '85!Q8. &&!Q# \$7. %Z!
3!T#2!GK!

!

LHSS! [* . 8# \$! '' =-(#-8-#823! 9%'+(-0# \$! , . I (-! 45(! , . \$'8'8# \$! @. %0&=-8&'. %! . /! Q8# \$(! '%!
] (+. \$=&'. %#-2! , #-'03!SFMB)SMMSG\
K!T#-85!FK!

!

LHSS! W%+'&(<! : '08=00#%&! / . -! #! 027>. 0'=7! . %! [Q>. %&#%('&2! #%<! E-P#%'i #&'. %! '%!
; =-. >(#%!: (7. 8-#&'8!@. %&(%&'. %\!
! 45(!
027>. 0'=7! I #0! . -P#%'i (<! ?2! R=-&! b(2\$#%<! #%<! '8\$=<(<! '%+'&#&'. %0! &. !
R#&5\$(\$@#%#%'P3! : #+'<!Q5# /(-3!d. %#&5#%!Q>(-?(-1#%<!T'85#(\$!a(2(-K!

!

LHSH! [*De85. !<(!\$#!Uw&(<(!!#!Ue<e-#&'. %!#=#f!_&#&0)9%'0\!! (. . N. (%+\$)(#&2"&, +&Xc"\$&2"&
?+&XN2N%+\$)(#!E-P#%'i (<! ?2!; 77#%=(\$!*(!]. 2!*#<=-'(!#%<!a(-P(0)1 (%-'!
Q. =&. =K!d=%(!LG3!#&!&5(!
K!

!

LHSH!! [U-. 7!9&. >'#!&. !90. %'#!#%<!/- . 7!@-#?P-#00!&. !@(\$(?-#&'. %!@-'&'8# \$! , (-0>(8&'+(0!
'%167(-'8#%!9-?#%!U. -7\! , \$(%#-2!\$(8&=-(!P'+(%! / . -!&5(!T#0&(-D0! , - . P-# 7! '%!
9-?#%!, \$#%#%'P3!
3!d#%=-2!SSK!

!

LHHB!! [*#! 7=%'8'># \$'&e! H+%)3)"##"! ^! \$De>- (=+(! <D=%(! -e+. \$=&'. %! '%+#q+)3'3\! Qe7'%#'-(! <(!
, '-(-!Q(-%#3! S%2%"3&"\$&2N3(%2%"3&2+#3&, "&C+%0)3&2"&, +&<N; (.1\$)(#&rAeeQLAPARh3!
3!: (8(7?(-!SAK!

!

LHHM!! [: e/'%'-!=%!'&e-w&!>#-&'8=\$'(-!>#-'0'(%3!SMNH)SMNMK\! , #>(-!P'+(%! / . -!&5(!Q(7'%#-!
41\$(1%&2"&, +&<N; (.1\$)(#&AerQLAPRQ!Y6%&. '%(! *'\$&! #%<! d(%#)*=8! @5'#>>(2Z! #&!
3!T#2!LVK!

!

LHHF!! [9%(!7=%'8'># \$'&e!8#>'&#\$(K! *D#<7%'0&-#&'. %!<(! , #-'0!<#%0!\$#!>-(7't-(!7. '8'e!<=
oW o 0't8\$(3\! , #>(-!>-(0(%&(<! '%!&5(!0(7'%#-3!0"%%)%&[F+\$&^B^e^&8)* , "37!T#-8!
E\$+'(-!'' #-=85!(&!6\$#%'!@5#&-' . &3! 3!d#%=-2!SBK!

!

LHHA!! [45(!E?h(8&+'&2!. /! /6-85'+(0!#%<! 6-85'+(0!#0! E?h(8&0K\! , #>(-!>-(0(%&(<! '%! &5(!
0(7'%#-3!?'3&*9(3'3&'&, "3&. (\$33!
3!6>-'!L NK!

!

LHHG

9%(!C=(0&'. %!<(!+'(!. =!<(!7. -&K!*(!8. ->0!#<7%'0&-#&'! (&!\$#<7%'0&-#&'! %!<(0!
8. ->0!#=#!OWO(!0't8\$(!^!, #-'OK !: '08=00#%&3!@5-'0&'#%!' "#=<(\$. &3! ?+D(%+\$()%"&2"3&
0*)"#"3&O(*)+, "3!

[, . | (-0! ./!, #-'0!&5(!@'&23!&5(!@#>'!&5(!@(%&(-\! ! ! !!!!!!!!!!!!!LHHM)LHSS!
!
!

