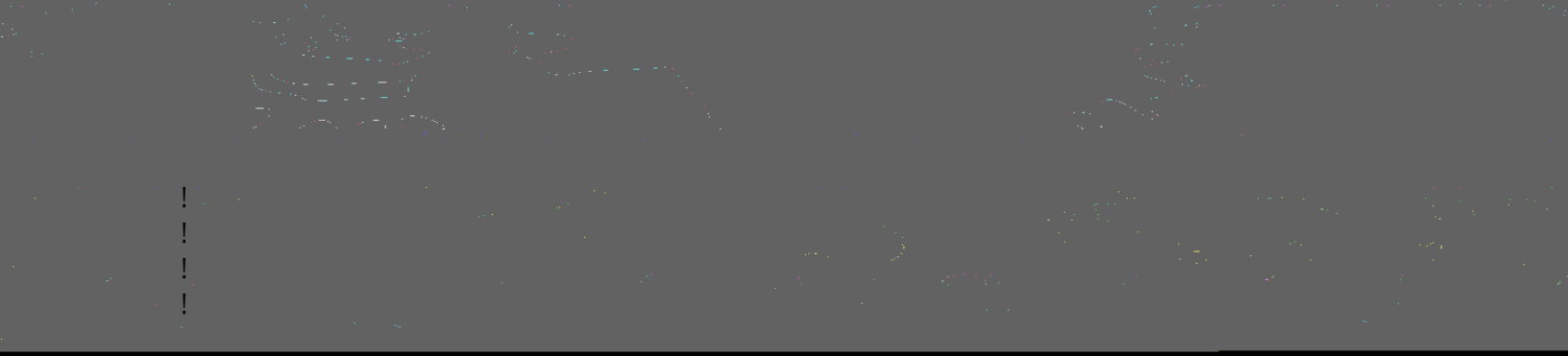

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6+37*88,3-'9!69'$!73+!*V(*-4*4!6*+,348!37!(,?*@2!!M,-:*!()*!,-:+*'8*!,-!436,-;!=8*!'-4!8=<8*Y=*-(!+*;=9'(,3-5!6+37*88,3-'9!'()9*(*8!'+3=-4!()*!03+94!)'I*!<**-!8=<>*:(!(3!+,;3+3=8!4+=;!(*8(,-;!0,()!)*7($!:3-8*Y=*-:*8!,7!()*!+*8=9(8!:3?*!<':/!638,(,I*@!!#*:'=8*!()*!B-(*+-'(,3-'9!C9$?6,:!D3??,((**!'-4!3()*+!6+37*88,3-'9!863+(8!3+;'-,X'(,3-8!)'I*!:+':/*4!430-!3-!863+(8!436,-;5!9*;'9!6+3:**4,-;8!+*;'+4,-;!I,39'(,3-8!37!()*!,-(*+-'(,3-'9!436,-;!+=9*8!)'I*!<**-!37!;+*'(!+*9*I'-:*!(3!'()9*(*8!'-4!,-(*+-'(,3-'9!'+<,(+'(3+8!'9,/*@!!F9()3=;)!()*!B-(*+-'(,3-'9!C9$?6,:!D3??,((**!'-4!3+;'-,X'(,3-8!9,/*!()*!6+37*88,3-'9!(*--,8!(3=+8!)'I*!('/*-!8(+,4*8!(3!*9*I'(*!'-(,G436,-;!6+3:**4,-;8!(3!,-:3+63+'(*!()*!7',+*8(!6+3:*885!()*+*!'+*!:3-:*+-8!()'(!:3-(,-=*!(3!69';=*!()*!'-(,G436,-;!6+3:**4,-;8!6+3:*88!'-4!,88=,-;!37!8'-:(,3-8@!!H36,-;!,-7+':(,3-8!:'-!*V':(!,-*9,;,<,9,($!3-!()*!'()9*(*8!73+!I'+$,-;!'?3=-(8!37!(,?*5!0,()!83?*!<*,-;!8*I*+'9!$*'+8@3!2)*!0'$!()*8*!)*'+,-;8!:3?*!3=(!'-4!:'-!;+*'(9$!'77*:(!()*!0*97'+*5!7,-'-:*85!:'+**+5!'-4!6*+83-'9!,?';*!37!6+37*88,3-'9!'()9*(*8@!!Z-8=+,-;!()*!7',+*8(!6+3:*88!(3!'()9*(*8!,-!'-(,G436,-;!6+3:**4,-;8!,8!:+,(,:'95!,-!<3()!6+37*88,3-'9!(*--,8!'-4!C9$?6,:!863+(8@!

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2),8!'-'9$8,8!0,99!:3?6'+*!'-(,G

*-:3=+';*4@!!A3+*3I*+5!?'-$!'()9*(*8!=8*4!8=<8('-:*8!(3!',4!()*,+!8(+*-;()!,-!()*!'-:,*-(!U3?'-!Z?6,+*@#A!F9()3=;)!()*!8=<8('-:*8!<*,-;!=8*4!(34'$!'+*!4,77*+*-(!()'-!()38*!=8*4!<$!()*!'-:,*-(!'()9*(*85!,(!,8!'66'+*-(!()'(!436,-;!)'8!'!93-;!),8(3+$!,-!863+(8@!

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L-(,9!()*!<33?!37!863+(8!436,-;!,-!()*!8*:3-4!)'97!37!()*!QR!"!:*-(=+$5!8=<8('-(,I*!+*;=9'(,3-8!4,4!-3(!*V,8(!,-!6+37*88,3-'9!863+(8!3+;'-,X'(,3-8!'-4!()*!B-(*+-'(,3-'9!C9$?6,:!D3??,((**@##!!2)*!=8*!37!8(,?=9'-(8!'-4!'-'<39,:!8(*+3,48!6*+?*'(*4!?'-$!6+37*88,3-'9!863+(8!()+3=;)3=(!()*!QR!"!:*-(=+$5!,-:9=4,-;!:$:9,-;5!86+,-(,-;5!93-;!4,8('-:*!?'+'()3-5!'-4!80,??,-;@#$!_+,3+!(3!'-(,G436,-;!+=9*85!()*+*!0*+*!8*I*+'9!4*'()8!37!'()9*(*8!+*63+(*4!4=*!(3!4+=;!=8*!,-!6+37*88,3-'9!:3?6*(,(,3-@#%!F8!'!+*8=9(5!()*!C9$?6,:8!7,+8(!<'--*4!:3-I*-(,3-'9!8=<8('-:*8!,-!"`PQ!'-4!'-'<39,:!8(*+3,48!,-!"`Pa@#&!2)*!+*;=9'(,3-!37!4+=;!(*8(,-;!'()9*(*8!*I39I*4!(3!()*!:+*'(,3-!37!()*!E3+94!F-(,GH36,-;!F;*-:$@#2!2)*!E3+94!F-(,GH36,-;!F;*-:$!,8!'-!,-(*+-'(,3-'9!'-4!,-4*6*-4*-(!';*-:$!73=-4*4!,-!"```5!0),:)!*8('<9,8)*4!()*!E3+94!F-(,GH36,-;!D34*@#3!!2)*!E3+94!F-(,GH36,-;!D34*!,8!()*!,-(*+-'(,3-'9!8('-4'+4!73+!'99!436,-;!(*8(,-;!'-4!+*8=9(8!?'-';*?*-(@#4!!2)*!B-(*+-'(,3-'9!C9$?6,:!D3??,((**!0'8!/*$!,-!*8('<9,8),-;!()*!E3+94!F-(,GH36,-;!F;*-:$!'-4!6+31,4*8!7,7($!6*+:*-(!37!,(8!7=-4,-;@#5!!2)*!B-(*+-'(,3-'9!C9$?6,:!D3??,((**08!'-(,G436,-;!+=9*8!+*79*:(!()38*!8*(!73+()!<$!()*!E3+94!F-(,GH36,-;!F;*-:$@#@!2)*+*73+*5!'99!'()9*(*8!0'-(,-;!(3!:3?6*(*!,-!()*!C9$?6,:!;'?*8!?=8(!8=<?,(!(3!()*!4+=;!(*8(,-;!'-4!()*!'669,:'<9*!+=9*8!(3!:3?6*(*@$A!!2)*!B-(*+-'(,3-'9!2*--,8!B-(*;+,($!F;*-:$!'-(,G436,-;!+=9*8!;31*+-!6+37*88,3-'9!(*--,85!'-4!'+*!'983!<,-4,-;!3-!(*--,8!69'$*+8!,-!()*!C9$?6,:8!,-!'44,(,3-!(3!()*!E3+94!F-(,GH36,-;!D34*!+=9*8@$#!!

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234'$5!()*!(+=*!6+*I'9*-:*!37!436,-;!'8!:3-4=:(*4!<$!()*!E3+94!F-(,GH36,-;!F;*-:$!,8!'!)'+4!?*'8=+*!8,-:*!,(!,8!37(*-!'!8*:+*(,I*!'+*'!37!+*;=9'(,3-@$$!!T30*I*+5!'66+3V,?'(*9$!" b!37!'99!(*8(8!:3-4=:(*4!<$!()*!E3+94!F-(,GH36,-;!F;*-:$!:3?*!<':/!638,(,I*@$%!D3?6'+*4!(3!3()*+!C9$?6,:!863+(85!(*--,8!)'8!*V6*+,*-:*4!7'+!7*0*+!436,-;!I,39'(,3-8@$&!!T30*I*+5!69'$*+8!0)3!I,39'(*!436,-;!

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+=9*8!,-!6+37*88,3-'9!(*--,8!:'-!<*!6=-,8)*4!<$!<*,-;!<'--*4!7+3?!69'$!73+!8*I*+'9!$*'+8@$2!2)*!
0'$!()*8*!8'-:(,3-8!'+*!,?69*?*-(*4!:'-!;+*'(9$!'77*:(!()*!:'+**+!'-4!7,-':*8!37!'()9*(*85!'-4!'8!
0*99!'8!()*,+!6*+:*6(,3-!'-4!+*6=('(,3-!,-!()*!6=<9,:!*$*@!Z-8=+,-;!()*!7',+*8(!6+3:*88!(3!'()9*(*8!,-!
'-(,G436,-;!6+3:**4,-;8!,8!:+,(,:'95!,-!<3()!()*!6+37*88,3-'9!(*--,8!(3=+8!'-4!C9$?6,:!863+(8@!!
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***6!! ":E>7D!&<FG?!A7;!-G?8>7D!
!
#3()!()*!E3+94!F-(,GH36,-;!F;*-:$!'-4!B-(*+-'(,3-'9!2*--,8!B-(*;+,($!F;*-:$!)'I*!*V(*-8,I*!
(*8(,-;!+=9*8!'-4!6+3:*4=+*8!()'(!'()9*(*8!?=8(!'<,4*!<$!(3!:3?6*(*!,-!<3()!C9$?6,:!'-4!
6+37*88,3-'9!69'$@!!2)*!E3+94!F-(,GH36,-;!D34*!;,I*8!'=()3+,($!(3!<3()!()*!E3+4!F-(,GH36,-;!
F;*-:$!'-4!+*86*:(,I*!-'(,3-'9!436,-;!'883:,'(,3-8!(3!:3-4=:(!4+=;!(*8(,-;!<3()!,-!'-4!3=(8,4*!
:3?6*(,(,3-@$3!!23!<*!(*8(*4!<$!()*8*!3+;'-,X'(,3-85!'-!'()9*(*!?=8(!<*!+*;,8(*+*4!,-!()*!JU*;,8(*+*4!
2*8(,-;!_3398@K$4!F()9*(*8!,-!()*!U*;,8(*+*4!2*8(,-;!_3398!'+*!J()*!),;)*8(G6+,3+,($!'()9*(*8!
*8('<9,8)*4!8*6'+'(*9$!'(!()*!,-(*+-'(,3-'9!9*I*9@K$5!F9()3=;)!'()9*(*8!'+*!-3(,7,*4!()'(!()*,+!8('(=8!
'8!'!U*;,8(*+*4!2+',-,-;!_339!F()9*(*!0,99!8=<>*:(!()*?!(3!,-!'-4!3=(!37!:3?6*(,(,3-!(*8(,-;5!()*!

2)*!B-(*+-'(,3-'9!2*--,8!B-(*;+,($!F;*-:$08!639,:,*8! ?,++3+!()*! E 3+94!F-(,GH36,-;!F;*-:$!,-!
?'-$!0'$8!'-4!,8!8,?,9'+9$!*V(*-8,I*!,-!8:36*@%2!!2)*!B-(*+-'(,3-'9!2*--,8!B-(*;+,($!F;*-:$!)'8!
()*!'=()3+,($!(3!43!<3()!,-!'-4!3=(!37!:3?6*(,(,3-!(*8(,-;@%3!! A 3+*3I*+5!()*!2*--,8!F-(,GH36,-;!
_+3;+'??*!;,I*8!*V6+*88!'=()3+,($!(3!()*! E 3+94!F-(,GH36,-;!F;*-:$!(3!:3-4=:(!,-!'-4!3=(!37!

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73+! , ? 6 '+(, '9! +*I ,* 0 ! 37! 4+= ; ! (*8(! 8 ' ? 69*8! ' -4! *Y= '9! 3663+(=-,($! (3!) ' I *! ' ! (+, '9! 3+! ' 66* '9! ( )*! 4*: ,8,3 -8! ? ' 4*!<$!( )*! E 3+94! F -(,GH36, - ; ! F ; *- : $!3+!B-(*+- '(,3 - '9!C9$? 6, : !D3 ? ? ,((**@!

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***H6!! &G?<F8?! 4 A7ADG I G78J!H>:FA8>:7?J!A7 ; !*7>8>AF! , ;K<;>=A8>:7!%9:=G??G?!!**

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E)*-! '! I ,39 '(,3 -! 3+! 638,(, I *! (*8(! +*8=9(! 3: : =+8! = -4*+! ( )*! E 3+94! F -(,GH36, - ; ! D34*5! ' -4! <*73+*! -3(, : *!,8! ; , I *-!(3!( )*! ' ( )9*(*5!( )*! E 3+94! F -(,G

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6+3:**4,-;8!'+*!6*+73+?*4!<$!'-!,-4*6*-4*-(!(+,<=-'95!37(*-!-'(,3-'9!3+;'-,X'(,3-85!3+!*I*-!()*!
D3=+(! 37! F+<,(+'(,3-! 73+! M63+(@23! ! 2)*! D3=+(! 37! F+<,(+'(,3-! 73+! M63+(! 0'8! :+*'(*4! <$! ()*!

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2)*8*!4=*!6+3:*88!+*Y=,+* ? *-(8!8*(!<$!()*! E 3+94! F -(,GH36,-;!F;*-:$!6+3I,4*!'!;334!7+' ? *0 3+/! 73+!'!7',+!)*'+,-;@!T3 0*I*+5!()*+*!,8!'!7':(3+!37!:3-:*+-@!! i 3(!'99!'()9*(*8!() '(!69'$!,-!,-(*+-'(,3-'9! :3 ? 6*(,(,3-! ? ' /*!'!9'+;*!' ? 3=-(!37!,-:3 ? *@!!B7!'-!'()9*(*!:'--3(!'773+4!(3!6'$!73+!'-!,-(*+6+*(*+! '(!()*,+!)*'+,-;!'-4!'+*!-3(!6+37,:,*-(!,-!Z-;9,8)!3+! 0)'(*I*+!9'-;=';*!()*!)*'+,-;!,8!=8,-;5!()*$! ? '$!-3(!<*!'<9*!(3!*77*:(,I*9$!'4I3:'(*!73+!()* ? 8*9I*8!'-4!6+3I,4*!+*9*I'-(!*V69'-'(,3-!73+!()*,+! :'8*@!!B7!()'(!6*+83-!:'--3(!'773+4!:3=-8*9!'-4!:'--3(!:3 ? ?=-,:'(*5!()*!'<,9,($!37!()*!'()9*(*!(3! 6+*8*-(!*I,4*-:*!'-4!3+'9!8=<?,88,3-8!(3!()*!(+,<=-'9! ? '$!<*!,?69,:'(*4@!!2),8!,8!'-!,?63+('-(! :3-:*+-!<*:'=8*!()*!8(' /*8!37!()*!3=(:3 ? *!37!()*!)*'+,-;!'+*!,-:+*4,<9$!),;)!73+!()*!6+37*88,3-'9! '()9*(*@!!B7!()*$!:'--3(!*77*:(,I*9$!:3=-8*9!73+!()* ? 8*9I*85!(),8!:3=94!9*'4!(3!93-;*+!8'-:(,3-8!73+! ()*!'()9*(*@!!F!7',+*+!)*'+,-;!8)3=94!,-:9=4*!'-!,-(*+6+*(*+!'663,-(*4!<$!()*!(+,<=-'9!(3!?'/*!8=+*! () '(!()*!4=*!6+3:*88!6+3(*:(*4!<$!()*! E 3+94! F -(,GH36,-;!:34*!+=9*8!,8!?3+*!*77*:(,I*@!!

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2)*!B-(*+-'(,3-'9!2*--,8!B-(*;+,($! F ;*-:$!36*+'(*8!,-!'!89,;)(9$!4,77*+*-(!73+?!7+3?!()*! E 3+94! F -(,GH36,-;!F;*-:$! 0)*-!,(!:3?*8!(3!+*8=9(8!?'-';*?*-(@!N,+8(5!,7!'!-'(,3-'9!3+;'-,X'(,3-!)'8! (*8(*4!()*,+! 3 0 -!(*--,8! 69'$*+8! 73+! 6*+73+?'-:*!*-)'-:,-;!4+=;8!'-4!()*! +*8=9(8!:3?*!<':/! 638,(,I*5!()*!B-(*+-'(,3-'9!2*--,8!B-(*;+,($! F ;*-:$!4*9*;'(*8!()*!+*8=9(8!?'-';*?*-(!4,+*:(9$!(3! ()*!-'(,3-'9!3+;'-,X'(,3-!73+!()*!7,+8(!)*'+,-;@34!!N+3?!()*+*5!()*!'()9*(*!:'-!'66*'9!()+3=;)!()*! D3=+(!37!F+<,(+'(,3-!73+!M63+(@35!!

<*!'88,;-*4!(3!()*!:'8*@43!!C-:*!()*!'4>=4,:'(,3-!:3? ?*-:*85!()*!F4?,-,8(+'(,I*!_+3:*4=+*!F:(!'773+48!6'+(,*8!()*!+,;)(!(3!8=<?,(!()*,+!30-!*I,4*-:*!,-!8=663+(!37!()*,+!:'8*5!9,/*!()*!,-,(,'9!)*'+,-;8!<*73+*!'!(+,<=-'9!73+!436,-;!:'8*8@!!2)*!8('(=(*!8('(*8!()'(!'6'+($!?'$!,-(+34=:*!J),8!:'8*!3+!4*7*-8*!<$!3+'9!3+!43:=?*-('+$!*I,4*-:*5!(3!8=<?,(!+*<=(('9!*I,4*-:*5!'-4!(3!:3-4=:(!8=:)!:+388G*V'?,-'(,3-!'8! ?'$! <*! +*Y=,+*4! 73+! '! 7=99! '-4! (+=*! 4,8:938=+*! 37! ()*! 7':(8@K44! 2)*!'4?,-,8(+'(,I*!';*-:$!'4>=4,:'(,3-!8** ?8!'!<,(!?3+*!9,/*!'!(+'4,(,3-'9!(+,'9!<'8*4!3-!(),8!9'-;='';*!,-!()*! 8('(=(*@! ! A3+*3I*+5! ()*! :3-:*+-8! 37! 9'-;='';*! <'++,*+8! '+*! 4*:+*'8*4! ,-! ()*! 7*4*+'9!'4?,-,8(+'(,I*!';*-:,*8!<*:'=8*!()*$!($6,:'99$!4*'9!0,()!43?*8(,:!?'((*+8@!!T30*I*+5!<*:'=8*!'-(,G436,-;!+=9*8!'+*!,-(*+-'(,3-'95!'!:3-8,4*+'(,3-!8)3=94!<*!;,I*-!(3!)30!9'-;='';*!:'6'<,9,(,*8!*77*:(!()*!6+3:**4,-;8!'-4!0)*()*+!'-!,-(*+6+*(*+!8)3=94!<*!8=669,*4!<$!()*!(+,<=-'9@!

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F-3()*+!4,77*+*-(,'(,-;!7':(3+!<*(0**-!()*!7*4*+'9!'4?,-,8(+'(,I*!';*-:$!'4>=4,:'(,3-!'-4!'-(,G436,-;! '4>=4,:'(,3-! 9,*! ,-! ()*,+! 8('-4'+48! 73+! +*I,*0@! ! N3+?'9! '4>=4,:'(,3-! 73+! ()*! 7*4*+'9!'4?,-,8(+'(,I*!';*-:,*8!=8*8!'!J8=<8('-(,'9!*I,4*-:*K!+*I,*0@

F-(,GH36,-;!';*-:,*8! 03=94!<*-*7,(!7+3?!'!:9*'+*+!8('-4'+45!83?*(),-;! ?3+*!'/,-!(3!J<$!'!6+*63-4*+'-:*!37!()*!*I,4*-:*K!+*I,*0@!!2),8!8('-4'+4!37!6+3371,8!=8*4!,-!:,I,9!:3=+(8!,-!()*!L-,(*4!M('(*8@!!#*:'=8*!'-(,G436,-;!)*'+,-;8!'+*!-3(!:3-8,4*+,-;!:+,?,-'9!':(,I,($5!(),8!8('-4'+4!:3=94!<*!6+3?,8,-;!,-!()*!:3-(*V(!37!436,-;!6+3:**4,-;8@!!2)*!J<$!'!6+*63-4*+'-:*!37!()*!*I,4*-:*K!8('-4'+4!+*Y=,+*8!()*!<=+4*-*4!6'+($!(3!6+3I*!()'(!()*!6+3638,(,3-!,-!Y=*8(,3-!,8!?3+*!9,/*9$!(3!<*!(+=*!()'-!7'98*@5&!B-!436,-;!:'8*85!()*!<=+4*-!37!6+3371,8!3-!()*!'-(,G436,-;!3+;'-,X'(,3-!(3!6+3I,4**I,4*-:*!37!'!436,-;!+=9*!I,39'(,3-!'-4!:=96'<,9,($@52!C7(*-5!()*+*!,8!9,((9*!*I,4*-:*!37!'!436,-;!I,39'(,3-!3()*+!()'-!()*!638,(,I*!(*8(8!()*?8*9I*8@53!2),8!7':(3+!;,I*8!83?*!?*+,(!(3!()*!J:3?73+('<9*!8'(,87':(,3-K!8('-4'+4@!#*:'=8*!37!()*!9,?,(*4!'I',9'<,9,($!37!*I,4*-:*!(3!()*!<=+4*-*4!6'+($5!'!9*88!8(+,:(!*I,4*-(,'+$!8('-4'+4!??'/*8!,(!*'8,*+!73+!436,-;!I,39'(,3-8!(3!)394!=6!,-!()*!D3=+(!37!F+<,(+'(,3-!73+!M63+(@54!!B-!(=+-5!(),8!?,;)(!??'/*!,(!*'8,*+!73+!'-(,G436,-;!3+;'-,X'(,3-8!(3!*-73+:*!()*,+!+=9*8@!!F9()3=;)!()*+*!,8!'-!,?63+('-(!,-(*+*8(!,-!()*!'<,9,($!73+!'-(,G436,-;!3+;'-,X'(,3-8!(3!*-73+:*!()*,+!+=9*85!()*!J:3?73+('<9*!8'(,87':(,3-K!8('-4'+4!,8!8,?69$!-3(!:9*'+!*-3=;)5!:3-8,4*+,-;!()*!:+,669,-;!8'-:(,3-8!,?638*4!3-!()*!'()9*(*!,7!()*$!938*!,-!()*!D3=+(!37!F+<,(+'(,3-!73+!M63+(@!!B(!03=94!<*!'!4,77*+*-(!:,+:=?8('-:*!,7!()*!6=-,8)?*-(!73+!'!436,-;!I,39'(,3-!4,4!-3(!,-:9=4*!8(+,:(!9,'<,9,($!8'-:(,3-8@!!T30*I*+5!<*:'=8*!()*+*!,8!83!?=:)!'(!8('/*!73+!'-!'()9*(*!3-!()*!938,-;!*-4!37!'!436,-;!I,39'(,3-!'66*'95!*I*-!'!89,;)(9$!?3+*!4*7,-,(,I*!8('-4'+4!9,/*!()*!J6+*63-4*+'-:*!37!()*!*I,4*-:*K!+*I,*0!03=94!<*!?=:)!7',+*+!6+3:*88!(3!6+37*88,3-'9!'()9*(*85!,-!<3()!6+37*88,3-'9!(*--,8!'-4!3()*+!C9$?6,:!863+(8@!

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!2)*!B-(*+-'(,3-'9!C9$?6,:!D3??,((**!'-4!6+37*88,3-'9!(*--,8!3+;'-,X'(,3-8!:'-!933/!(3!L@M@!7*4*+'9!'4?,-,8(+'(,I*!';*-:,*8!73+!'!;334!?34*9!8=++3=-4,-;!'4>=4,:'(,3-!6+3:*88*8!73+!8*I*+'9!+*'83-8@!!N3+!*V'?69*5!()*!J8=<8('-(,'9!*I,4*-:*K!+*I,*0!,-!7*4*+'9!';*-:$!'4>=4,:'(,3-!,8!:3-8,8(*-(!()+3=;)3=(!73+?'9!'4>=4,:'(,3-!'-4!43*8!-3(!8**?!(3!:3-8,4*+!()*!+*6=('(,3-!37!()*!6'+(,*8!3+!()*!;+'I,($!37!()*!'99*;'(,3-8!'(!)'-4@

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I,4-:*!()'(!:*+(',-!:3=-(+,*8!03=94!*I*-!6+3?3(*!()*!=8*!37!6*+73+?'-:*!*-)'-:,-;!8=<8('-:*8!(3!0,-!3-!()*!,-(*+-'(,3-'9!8(';*@A!!E,()3=(!6+36*+!+*6*+:=88,3-5!'()9*(*8!:3=94!:)*'(!=8,-;!()*8*!4+=;8!'-4!0,-!,-!:3?6*(,(,3-8!()'(!()*,+!3+4,-'+$!8(+*-;()!'-4!'<,9,($!03=94!-3(!6+*I',9@!!B(!,8!9'+;*9$!'::*6(*4!()'(!'()9*(*8!0)3!0,99,-;9$!'-4!/-30,-;9$!I,39'(*!'-(,G436,-;!+=9*8!8)3=94!7':*!'66+36+,'(*!8'-:(,3-8@!!E,()!?34*+-!?*4,:,-*!'-4!(*:)-393;$5!,-(*+-'(,3-'9!863+(,-;!:3?6*(,(,3-8!0,()3=(!+*;=9'(,3-8!03=94!<*:3?*!'!89,66*+$!8936*!(3!*-4'-;*+,-;!'()9*(,:!:3?6*(,(,3-!'-4!()*!'()9*(*8!()*?8*9I*8@@#!!!

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F9()3=;)!'99!()*8*!:3-8,4*+'(,3-8!)'I*!:3-8,4*+'<9*!0*,;)(!(3!,-(*+-'(,3-'9!863+(8!'-4!(3!()*!6=<9,:5!()*!?38(!(+3=<9,-;!6,*:*!37!'-(,G436,-;!6+3:**4,-;8!9,*8!,-!()*!8*I*+,($!37!,(8!8'-:(,3-85!6'+(,:=9'+9$!()*!+,;,4!8(+,:(!9,'<,9,($!8('-4'+4!73+!436,-;!I,39'(,3-8@!!2)*!:3-8*Y=*-:*!73+!'!436,-;!I,39'(,3-!37(*-!('/*8!()*!8)'6*!37!,-*9,;,<,9,($5!'-4!6388,<9*!73+7*,(=+*!37!(,(9*8!'-4!6+,X*!?3-*$!4=+,-;!()*!6*+,348!()'(!()*!'()9*(*!0'8!436,-;@$!!F::3+4,-;!(3!F+(,:9*!`!37!()*!E3+94!F-(,GH36,-;!D34*5!,7!()*!436,-;!I,39'(,3-!0'8!,-!:3--*:(,3-!0,()!'!86*:,7,:!*I*-(!4=+,-;!,-G:3?6*(,(,3-!(*8(,-;5!()*,+!+*8=9(8!7+3?!()*!:3?6*(,(,3-!'+*!4,8Y='9,7,*45!'-4!'-$!?*4'985!63,-(85!3+!6+,X*8!'+*!73+7*,(*4@@%!F-!'()9*(*!:'-!3-9$!*8:'6*!(),8!8'-:(,3-!,7!()*$!:'-!6+3I*!()*$!)'I*!J-3!7'=9(!3+!-*;9,;*-:*K!73+!()*!I,39'(,3-@@&!N3+!;*-*+'9!I,39'(,3-8!37!()*!'-(,G436,-;!+=9*85!()*!*77*:(8!3-!'()9*(*8!'+*!>=8(!'8!8*I*+*@@2!!B7!()*!(+,<=-'9!4*(*+?,-*8!()'(!()*!'()9*(*08!436,-;!0'8!J,-(*-(,3-'95K!()*!E3+94!F-(,GH36,-;!D34*!,?638*8!'-!'=(3?'(,:!73=+G$*'+!?,-,?=?!,-*9,;,<,9,($!7+3?!69'$5!*I*-!,7!,(!,8!()*!'()9*(*08!7,+8(!377*-8*@@3!2)*!E3+94GF-(,!H36,-;!D34*!4*7,-*8!()*!(*+?!J,-(*-(,3-'9K!(3!?*'-!J()38*!F()9*(*8!3+!3()*+!_*+83-8!0)3!*-;';*!,-!:3-4=:(!0),:)!()*$!/-*0!:3-8(,(=(*4!'-!'-(,G436,-;!+=9*!I,39'(,3-!3+!/-*0!()'(!()*+*!0'8!'!8,;-,7,:'-(!+,8/!()'(!()*!:3-4=:(!?,;)(!:3-8(,(=(*!3+!+*8=9(!,-!'-!'-(,G436,-;!+=9*!I,39'(,3-!'-4!?'-,7*8(9$!4,8+*;'+4*4!()'(!+,8/@K@4!2),8!6+3I,8,3-!),;)9,;)(8!()'(!'-!,-(*-(,3-'9!I,39'(,3-!,-:9=4*8!<3()!/-30,-;!'-4!-*;9,;*-(!8('(*8!37!?,-4@@5!!2)*!3-9$!0'$!'-!'()9*(*!:'-!*4=:*!()*,+!8'-:(,3-!=-4*+!(),8!6+3I,8,3-!,8!,7!'()9*(*!'4?,(8!(3!()*,+!436,-;!I,39'(,3-8@@!!F-!'4?,88,3-!37!(),8!83+(!03=94!+*4=:*!()*!73=+G$*'+!6*+,34!37!,-*9,;,<,9,($!<$!3-*!$*'+@#AA!!!

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F9()3=;)!()*!,4*'!<*),-4!(),8!6+3I,8,3-!,8!9,/*9$!(3!,-:*-(,I,X*!'()9*(*8!(3!<*!)3-*8(!'-4!(3!+*4=:*!()*!-=?<*+!37!:'8*8!()'(!;3!(3!()*!(+,<=-'985!?'/,-;!'-!'4?,88,3-!9,/*!(),8!:3=94!:'=8*!+=,-!3-!'-!'()9*(*08!+*6=('(,3-!'-4!863-83+8),6!4*'98@!!2)*!?3-*$!(

(*--,8!69'$*+!M,?3-'!T'9*65!'!73=+G$*'+!8=86*-8,3-!)'8!()*!9,/*9,)334!37!*-4,-;!)*+!:'+**+@#A#!!
N,+8(5!?'-$!'()9*(*8!'-4!*86*:,'99$!6+37*88,3-'9!(*--,8!69'$*+8!)'I*!'!8)3+(!'?3=-(!37!J6*'/K!$*'+8!
()'(!()*$!?'$!:3?6*(*!4=*!(3!()*!*V(+*?*!6)$8,:'9,($!+*Y=,+*4!(3!6*+73+?!'(!()*!),;)*8(!9*I*9@!!i3(!
3-9$!43!'()9*(*8!()*-!938*!3=(!3-!,-:3?*!73+!73=+!$*'+8!<=(!0,99!6'$!()*!6+,:*!0)*-!()*$!(+$!(3!:3?*!
<':/!'-4!)'I*!-3(!)'4!()*!'<,9,($!(3!:3?6*(*!73+!?'-$!$*'+8@!!2),8!03=94!8*(!()*?!<':/!,?*-8*9$5!
'8!69'$,-;!,-!:3?6*(,(,3-!,8!:3-8,4*+*4!'-!*88*-(,'9!(339!(3!,?6+3I,-;!6*+73+?'-:*!,-!863+(8@!
F9()3=;)!6+3?3(,-;!()*!:3-7*88,3-!37!'()9*(*8!0)3!)'I*!436*4!,8!'!638,(,I*!;3'95!,(!?'/*8!
6+37*88,3-'9!'()9*(*8!:)338*!<*(0**-!(03!,-:+*4,<9$!4,77,:=9(!6'()8@!
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A3+*!:3-:*+-,-;9$5!,7!()*!'()9*(*!6+3I*8!()'(!()*$!4,4!-3(!)'I*!()*!,-(*-(,3-'9!8('(*!37!?,-4!(3!
436*5!()*!'()9*(*!,8!-3-*()*9*88!8=<>*:(!(3!'!(03G$*'+!<'-!7+3?!'99!:3?6*(,(,3-!,7!()*$!'+*!
8'-:(,3-*4!=-4*+!()*!J=8*K!3+!J7',9=+*!(3!8=<?,(K!6+3I,8,3-8!37!()*!:34*!4=*!(3!()*!6+*8*-:*!37!
<'--*4!8=<8('-:*8!,-!()*,+!<34$@#A$!A*'-,-;!()'(!*I*-!,7!()*!'()9*(*!4,4!-3(!/-30,-;9$!,-;*8(!
<'--*4!8=<8('-:*8!'-4!0'8!-3(!-*;9,;*-(5!()*$!0,99!8(,99!8=77*+!'!:3?69*(*!<'-!7+3?!:3?6*(,(,3-!
73+!(03!0)39*!$*'+8@#A%!B?63+('-(9$5!F-(,GH36,-;!C+;'-,X'(,3-8!)'I*!'!I*+$!),;)!,-(*+*8(!,-!
-73+:?*-(!37!()*!E3+94!F-(,GH36,-;!D34*!'-4!6+3(*:(,-;!,-(*+-'(,3-'9!:3?6*(,(,3-!7+3?!4,8)3-*8($!'-4!:)*'(,-;!=8,-;!6*+73+?'-:*!*-)'-:,-;!8=<8('-:*8@!!A3+*3I*+5!()*!)*'9()!'-4!8'7*($!
37!'()9*(*!,-!863+(8!,8!37!:+,(,:'9!,?63+('-:*@!!T30*I*+5!,7!'-!'()9*(*!)'8!6+3I*-!()'(!()*$!4,4!-3(!
)'I*!()*!,-(*-(,3-'9!8('(*!37!?,-4!(3!436*!'-4!0*+*!-3(!-*;9,;*-(5!'!(03G$*'+!<'-!7+3?!'99!
:3?6*(,(,3-!,8!'-!,-:+*4,<9$!)'+8)!8('-4'+4@!!F9()3=;)!-3(!'8!)'+8)!,-!()*!,-(*-(,3-'9!73=+G$*'+!
<'-5!'!(03G$*'+!<'-!:'-!)'I*!8*I*+*9$!4*(+,?*-('9!*77*:(8!3-!()*!'()9*(*08!:'+**+5!7,-':*85!'-4!
6=<9,:!,?';*@!!B7!()*!69'$*+!)'8!*8('<9,8)*4!,-!'4>=4,:'(,3-!()'(!()*!436,-;!0'8!'::,4*-('9!3+!
=-/-30,-;5!()*!69'$*+!8)3=94!-3(!)'I*!(3!*-4=+*!-*;'(,I*!6+*88!'-4!8:+=(,-$!<$!()*!6=<9,:@!!
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F-!*V'?69*!37!'!:'8*!37!=-/-30,-;!436,-;!+*8=9(,-;!,-!,-,(,'9!(03G$*'+!8'-:(,3-8!0'8!()'(!37!
6+37*88,3-'9!(*--,8!,:3-!A'+,'!M)'+'63I'@!!M)'+'63I'!0'8!3-*!37!()*!<,;;*8(!8('+8!,-!6+37*88,3-'9!
(*--,85!0,()!'!73+?*+!03+94!-=?<*+!3-*!+'-/,-;5!(),+($G8,V!6+37*88,3-'9!(,(9*85!7,I*!37!0),:)!'+*!
;+'-4!89'?8@#A&!!M)*!,8!3-*!37!()*!0*'9(),*8(!'()9*(*8!,-!),8(3+$5!*86*:,'99$!7+3?!)*+!0,4*!'++'$!37!
863-83+8),6!'-4!<+'-4!4*'98@#A2!!C-!.'-='+$!Qa5!QR"a5!M)'+'63I'!(*8(*4!638,(,I*!73+!6*+73+?'-:*!
*-)'-:,-;!8=<8('-:*8!'7(*+!'!=+,-*!(*8(!('/*-!'7(*+!)*+!Y='+(*+G7,-'9!9388!,-!()*!F=8(+'9,'-!C6*-!()'(!
$*'+@!2)'(!(*8(!+*I*'9*4!()*!4+=;!A*943-,=?!0'8!,-!)*+!8$8(*?!4=+,-;!:3?6*(,(,3-@#A3!2)*!
6'+(,:=9'+!,88=*!0,()!M)'+'63I'08!:'8*!0'8!()*!9':/!37!6+36*+!-3(,:*!()'(!()*!4+=;!0'8!,-!7':(!'!
<'--*4!8=<8('-:*!=-4*+!()*!2*--,8!F-(,GH36,-;!_+3;+'??*@#A4!A*943-,=?!0'8!3-9$!4**?*4!'!
<'--*4!8=<8('-:*!3-!.'-='+$!"D!!37!()'(!8'?*!$*'+5!3-9$!'!7*0!0**/8!6+,3+!(3!)*+!638,(,I*!(*8(@!!

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102 ().<+ 1*0 ('01=+ =,1:> :/+0&

103 D>L

104 P/::"&;',0&%>'!)&#;'!/8&0+$-&a'O-*0B6E"%8'2$/'5)<&B:'N&%6*>'6$'b%$<'5H$/6'A&0"&'!E&0&+$-&'^3/6'C*-*0'(&>'G"#*'6$'."%>'U/6_ ,110-+ 9E()-

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()* ? ! 0*+*! :3-(' ?,-'(*4! 0,()! '! <'--*4! 8=<8('-:*@###&! ! 2),8! 8(=4$! 4* ? 3-8(+'(*8! '-!,-:+*'8*4! 9,/*9,)334!()'-!'-!'()9*(*! ? '$!:3 ? *!,-(3!:3-(':(!0,()!8=669* ? *-(8!()'(!:3=94!:'=8*!()* ? !(3!)'I*! '!638,(,I*!436,-;!(*8(@!F9()3=;)!'-!'()9*(*! ? '$!=-/-30,-;9$!,-;*8(!'!:3-(' ?,-'(*4!8=<8('-:*5!()*! E 3+94!F-(,GH36,-;!D34*!8(,99!+*(',-8!()*!'=()3+,($!(3!8,;-,7,:'-(9$!8'-:(,3-!()*!'()9*(*@!!2)*! E 3+94! F-(,GH36,-;!D34*!8('(*8%!!

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> B-!:'8*8!0)*+*!()*!F()9*(*!3+!3()*+!_*+83-!:'-!*8('<9,8)!<3()! i 3!M,;-,7,:'-(!N'=9(! 3+! i *;9,;*-:*!'-4!()'(!()*!4*(*:(*4!_+3),<,(*4!M=<8('-:*!d3()*+!()'-!'!M=<8('-:*! 37!F<=8*e!:'?*!7+3?!'!D3-(' ?,-'(*4!_+34=:(5!()*-!()*!6*+,34!37!B-*9,;,<,9,($!8)'99! <*5!'(!'!?,-,?=?5!'!+*6+,?'-4!'-4!-3!6*+,34!37!,-*9,;,<,9,($5!'-4!'(!'!?'V,?=?5! (03!$*'+8!B-*9,;,<,9,($5!4*6*-4,-;!3-!()*!F()9*(*!3+!3()*+!_*+83-08!4*;+**!37! N'=9(@###2!!

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2),8!6+3I,8,3-!8)308!()'(!*I*-!,7!()*!'()9*(*!,-;*8(*4!8=<8('-:*!()'(!0*+*!:3-(' ?,-'(*4!'-4! *8('<9,8)*4!-3!7'=9(!3+!-*;9,;*-:*!3-!()*,+!<*)'975!()*$!:3=94!8(,99!<*!6=-,8)*4!7+3?!69'$!(3!=6!(3! (03!$*'+8@!!2)*!:3-(+'8(!<*(0**-!-3!,-*9,;,<,9,($!'-4!(03!$*'+8!9*'I*8!93(8!37!+33?!73+!4,8:+*(,3-! (3!()*!436,-;!3+;'-,X'(,3-@!F9()3=;)!'()9*(*8!?=8(!<*!?,-47=9!37!0)'(!()*$!6=(!,-!()*,+!<34$5!,(!,8! 4,77,:=9(!(3!+*:3-:,9*!)30!(03!,-4,I,4='98!:3=94!)'I*!()*!8'?*!8('(*!37!?,-4!'-4!4*;+**!37!7'=9(5! '-4!,-!()*3+$!+*:*,I*!(03!4,77*+*-(!3=(:3?*8!()'(!03=94!'77*:(!()*,+!:'+**+8!,-!4+'8(,:'99$!4,77*+*-(! 0'$8@!!

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F!6'+(,:=9'+!;+3=6!37!6+37*88,3-'9!'()9*(*8!0),:)!()*!8(+,:(!8:+=(,-$!,?6':(8!I*+$!4,8(,-:(9$!'+*! ?,-3+8@!!C7(*-5!?,-3+8!()'(!('+*!<*,-;!6=8)*4!(3!8=:)!'!),;)!9*I*9!'(!8=:)!'!$3=-;!';*!'+*!-3(!,-! 7=99!:3-(+39!37!()*,+!9,I*8!'-4!'+*!8=<>*:(*4!(3!()*!0,8)*8!37!()*,+!7'?,9$5!()*,+!:3':)*85!'-4!()*,+! :3=-(+$@!B-!7':(5!()*B-(*+-'(,3-'9!C9$?6,:!D3??,((**!3-!)'+'88?*-(!'-4!'<=8*!+*:3;-,X*8!436,-;! 6+':(,:*8!3-!?,-3+8!'8!J-3-G'::,4*-('9!6)$8,:'9!'<=8*@K###!A'-$!?,-3+8!:'-!*'8,9$!<*!:3*+:*4!3+! <+',-0'8)*4!<$!()38*!()*$!(+=8(@!!C+5!,7!()*+*!,8!'!6((*+-!37!'<=8*5!()*$!?'$!7**9!=-:3?73+('<9*!(3! 86*'/!=6!(3!()*!6+36*+!'=()3+,(,*85!*86*:,'99$!,7!()*,+!:3=-(+$!*-:3=+';*8!436,-;!6+':(,:*8@!! E,()!'! 8(+,:(!8:+=(,-$!8('-4'+4!()'(!43*8!-3(!'::3=-(!73+!'-!'()9*(*08!8('(*!37!?,-4!3+!9':/!37!*4=:'(,3-! +*;'+4,-;!436,-;!6+':(,:*85!:),94+*-!:3=94!<*!630*+9*88@!!B-!7':(5!*I,4*-:*!*V,8(8!(3!8)30!()'(! 863+(8!436,-;!'-4!8'-:(,3-8!()'(!73993 0!4,86+363+(,3-'(*9$!,?6':(!?,-3+8@!2)*!F?*+,:'-!F:'4*?$! 37!_*4,'(+,:8!+*63+(8!()'(J:),94+*-!'8!()*!?38(!I=9-*+'<9*!;+3=6!'77*:(*4!<$!436,-;!'-4!()*!()+*'(! 8=:)6+':(,:*8!+*6+*8*-(@K###4!!#*:'=8*!37!()*!9,/*9,)334!37!:3*+:,3-!'-4!'<=8*!8=++3=-4,-;!638,(,I*! 436,-;!(*8(8!,-!:),94+*-5!?,-3+8!8)3=94!)'I*!8(+3-;*+!6+3(*:(,3-8!,-!863+(8!'-4!8)3=94!-3(!<*! 8=<>*:(!(3!)'+8)!8'-:(,3-8@!

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6+36*+9$!*-8=+,-;!()'(!'()9*(*8!;*(!'!7',+!'-4!,?6'+(,'9!+=9,-;!3-!()*,+!:'8*@!2),8!,8!*86*:,'99$!
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2)*!'436(,3-!37!*4=:'(,3-!'8!'!6,99'+!37!()*! F-(,GH36,-;!?,88,3-!0'8!'!8(*6!,-!()*!+,;)(!4,+*:(,3-!73+!'-(,G436,-;!3+;'-,X'(,3-8@!!

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N=+()*+5!()*! E 3+94! F-(,GH36,-;! F;*-:$! 8*(8! ;=,4*9,-*8! 73+!,-4,I,4='9! -'(,3-80! '-(,G436,-;!3+;'-,X'(,3-8!*4=:'(,3-!6+3;+'?8@#&@!!F9()3=;)!)'I,-;!*4=:'(,3-'9!;=,4*9,-*8!'-4!6+3I,4,-;!83?*!?'(*+,'98!,8!'-!,?6+3I*?*-(!73+!()*! E 3+94! F-(,GH36,-;!D34*5!()*+*!'+*!79'0 8!()'(!8(,99!*V,8(!0,()!(),8!8$8(*?@!!2)*!,88=*!0,()!()*!;=,4*9,-*8!,8!()'(!()*! E 3+94! F-(,GH36,-;!F;*-:$!;=,4*9,-*8!'993 0!73+!:*+(',-!,?6*+'(,I*!,-73+?'(,3-5!,-:9=4,-;!()*! 6+,-:,69*! 37! 8(+,:(!9,'<,9,($!'-4!()*!+,;)(8!'-4!+*863-8,<,9,(,*8!37!()*! E 3+94! F-(,GH36,-;!D34*5!(3!<*!6=<9,8)*4!3-!'8!9,((9*!'8!'!8,?69*! 0*<8,(*5!0,()3=(!?3+*@#2A!2)*!?*()34!37!638(,-;!*4=:'(,3-'9!?'(*+,'98!3-9$!(3!'!0*<8,(*!,8!-3(!'4*Y='(*!(3!)394!'()9*(*8!(3!8=:)!8(+,:(!9,'<,9,($!,-!()*!*I*-(!37!'!638,(,I*!436,-;!(*8(@! A'/,-;!,-73+?'(,3-!'I',9'<9*!43*8!-3(!*-8=+*!()'(!()*!,-73+?'(,3-!+*':)*8!()*!6+36*+!'=4,*-:*5!,-!(),8!:'8*!'()9*(*8!'99!'+3=-4!()*!03+94@!! i 3(!'99!'()9*(*8!?,;)(!)'I*!'::*88!(3!()*!6+36*+!(*:)-393;$!(3!+*'4!'99!()*!6+36*+!?'(*+,'98!'<3=(!436,-;@!!N=+()*+5!?,-3+8!()'(!'+*!<*,-;!73+:*4!(3!436*!<$!'4=9(8!?'$!)'I*!(),8!,-73+?'(,3-!),44*-!7+3?!()*?!(3!6+*I*-(!()*?!7+3?!86*'/,-;!3=(!'<3=(!()*?!<*,-;!8=<>*:(*4!(3!('/,-;!6*+73+?'-:*!*-)'-:,-;!8=<8('-:*8@!!2)*! E 3+94! F-(,GH36,-;! F;*-:$!)'8!?'4*!'!638,(,I*!

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773+(!,-!()!*4=:'(,3-'9!86)*+*!8=++3=-4,-;!()*!=8*!37!6*+73+?'-:*!*-)'-:,-;!8=<8('-:*85!<=(!?3+*!-**48!(3!<*!43-*!(3!*-8=+*!()*!7',+*8(!6+3:*88!(3!'()9*(*8!37!'99!';*8@!!

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B?6+3I,-;!()*!*4=:'(,3-'9!6+3:*88!73+!436,-;!,8!,?6*+'(,I*!(3!,?6+3I,-;!'-(,G436,-;!6+3:*4=+*85!*86*:,'99$!<*:'=8*!*I,4*-:*!*V,8(8!(3!8)30!()'(!()*!:=++*-(!*4=:'(,3-'9!6+3;+'?8!,-!69':*!'+*!-3(!I*+$!*77*:(,I*@!M*I*+'9!8(=4,*8!'88*88*4!4'('!8=++3=-4,-;!6*+:*-(';*!37!Y=*8(,3-8!'-80*+*4!:3++*:(9$!3-!'!Y=,X!;,I*-!(3!'()9*(*8!8=++3=-4,-;!<'--*4!8=<8('-:*8!3+!/-309*4;*!37!+=9*8!,-!()*!E3+94!F-(,GH36,-;!D34*#2#@!!B-!.'?',:'5!()*!'()9*(*8!8:3+*4!'-!'I*+';*!(),+($G*,;)(!6*+:*-(!:3++*:(@#2$!!B-!.'6'-5!()*!'()9*(*8!8:3+*4!'-!'I*+';*!37!aW@cWb!:3++*:(@#2%!B-!_39'-45!()*!'I*+';*!8:3+*!0'8!Wc@QQb@#2&!!F=8(+'9,'-!'()9*(*8!0*+*!(*8(*4!'-4!8:3+*4!3-9$!'!SQ@Qb!:3++*:(!3-!'I*+';*@#22!!F9()3=;)!()*!E3+94!F-(,GH36,-;!F;*-:$!)'8!*9*I'(*4!()*!*?6)'8,8!3-!*4=:'(,3-5!()*+*!,8!8(,99!'!4,8:3--*:(!<*(0**-!*4=:'(,3-'9!(':(,:8!'-4!,-73+?'(,3-!()'(!6+37*88,3-'9!'()9*(*8!+*(',-!'<3=(!<'--*4!8=<8('-:*8@#23!#*:'=8*!()*!8'-:(,3-8!73+!'!638,(,I*!436,-;!(*8(!:'-!<*!4*(+,?*-('9!(3!'-!'()9*(*08!9,7*!'-4!:'+**+5!'!?3+*!4,9,;*-(!*4=:'(,3-'9!6+3:*88!8)3=94!<*!+*Y=,+*4!<*73+*!'-!'()9*(*!,8!'<9*!(3!:3?6*(*!,-!6+37*88,3-'9!863+(8!'-4!,8!8=<>*:(!(3!I'8(!4+=;!(*8(,-;!=-4*+!()*!E3+94!F-(,GH36,-;!D34*@!C-*!6388,<9*!839=(,3-!(3!:3++*:(!(),8!,88=*!?'$!<*!+*Y=,+,-;!'()9*(*8!(3!6'+(,:,6'(*!,-!,-G6*+83-!:9'88*8!0)*+*!()*$!'+*!?'4*!'0'+*!37!()*!436,-;!+=9*8!'-4!'+*!377*+*4!'-!3663+(=-,($!(3!'-3-$?3=89$!+*63+(!,7!()*$!'+*!<*,-;!:3*+:*4!(3!436*!';',-8(!()*,+!0,99@!!B7!()*!*4=:'(,3-!0*+*!(3!+*?',-!839*9$!3-9,-*5!'-3()*+!839=(,3-!?'$!<*!(3!+*Y=,+*!'()9*(*8!(3!6'88!3-9,-*!*V'?8!()'(!,-:9=4*!()*!+*9*I'-(!436,-;!,-73+?'(,3-!'8!'!6+*+*Y=,8,(*!(3!:3?6*(,(,3-!,-!6+37*88,3-'9!*I*-(8@!

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C-:*!'()9*(*8!'+*!6+36*+9$!*4=:'(*4!'-4!<*:3?*!8=<>*:(!(3!(*8(,-;!(!()*!+,-;8!()*?8*9I*8!:'-!<*!,?6+3I*4!(3!<*!7',+*+!(3!'()9*(*8!0),9*!8(,99!6+3(*:(,-;!()*!,-(*+*8(8!37!'-(,G

4*:,8,3-8! :93=4*4! <$! +*6+*88*4! ' -4! , ? 69, :,(! <,' 8*8@! B-,(,' 9! ' -(,G436,-;!)*' +,-;8! 8)3=94! ' 436(! ' ! J6+*63-4*+' -:*! 37!()*! *I,4*-:*K! 8(' -4' +45! 0),:)!;,I*8!()*! ' -(,G436,-;! :3=+(8! ' ! ? 3+*! 4*7,-,(,I*! <' 8,8!73+!4*:,8,3-8! ' -4! 0 3=94!;,I*! ' ()9*(*8!<*((*+!6+*:*4*-(!3-!0) ' (!(3!*V6*:(!73+!()*,+!,-,(,' 9!' -(,G 436,-;!6+3:**4,-;8@#24!! 2),8!8(' -4' +4! 0 3=94!8(,99! ' 993 0!' -(,G436,-;!3+;' -,X' (,3-8!(3!6+*8*-(!()*,+! :' 8*! 0,()!()*! 8(+*-;()! 37!()*,+!*I,4*-:*! 0),9*! 6+3(*:(,-;!()*!,-4,I,4='9! ' ()9*(*8! 7+3 ? ! 6*+83-' 9! 8:+=(,-$@#25!!!

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A3+*3I*+5!()*! 436,-;! ' 66*' 98! 6+3:*88! :3=94! <*((*+! 8*+I*! ' ()9*(*8! <$! ;,I,-;!()* ? ! ' -3()*+! 73+= ? ! <*8,4*8!()*! D3=+(! 37! F+<,(+' (,3-! 73+! M63+(!(3!)*' +!()*,+!:' 8*@!! #*:' =8*!()*! D3=+(! 37! F+<,(+' (,3-! 73+! M63+(!,8!()*! 3-9$! 69' :*! 0)*+*! 7,-' 9!' -4! <,-4,-;! 4*:,8,3-8! ' +*! +*-4*+*45!(),8!:3=+(!)3948!, ? ? *-8*! 630*+! (3!*V' :(!8' -:(,3-8! 3-! ' ()9*(*8@!! B(!,8!, ? 63+(' -(!() ' (! ' ()9*(*8!) ' I*! ' ! 4,77*+*-(!(+,<=-' 9!)*' +! ()*,+!:9', ? 8!,-!:' 8*!()*! D3=+(! 37! F+<,(+' (,3-! 73+! M63+(!,8!-3(!*-(,+*9$! 7',+! 4=+,-;!()*! ' 66*' 98! 6+3:*88@!! A3+*3I*+5!,7!()*! D3=+(! 37! F+<,(+' (,3-! 73+! M63+(!,8!(3!+*(',-! 839*! ' -4! 7,-' 9! >=+,84,:(,3-! 3I*+! ' 99! 6+37*88,3-' 9! ' ()9*(*8! ' :+388!()*! 0 3+945!,(!8)3=94! ? 3I*! ' 0 ' $! 7+3 ? ! ' -! ' =(3 ? ' (,:!5,*' #$#! 8(' -4' +4! 37! +*I,*0@! B7!()*! D3=+(! 37! F+<,(+' (,3-! 73+! M63+(!,8!()*! 3-9$! :3=+(!(3!)*' +! ' -! ' 66*' 9! ' -4!;,I*8!-3! 4*7*+*-:*! 0)' (83*I*+!(3!()*!(+,<=-' 98! <*93 05!,(!+*-4*+8!()*! 93 0*+! :3=+(08!4*:,8,3-8! ? *' -,-;9*88@#2@!! B-!()' (!:' 8*5!()*! D3=+(! 37! F+<,(+' (,3-!)3948!8,;-,7,:' -(9$! (33! ? =:)! 63 0*+! ' -4! ? 38(!(, ? *8!, ? 638*8! 8' -:(,3-8! 3-!' ()9*(*8!() ' (!4*6+,I*8!()* ? !37!()*,+!' <,9,($!(3!:3 ? 6*(*!73+!' !8,;-,7,:' -(!' ? 3=-(!37!(, ? *5! *I*-!,7!()*! 436,-;!I,39' (,3-! 0 ' 8!=-/-30,-;!3+!4=*!(3!' !:3-(' ?,-' (,3-!*++3+@!!

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2)*! ? 38(!, ? 63+(' -(!839=(,3-! 37! ' 99! 8)3=94! <*!(3!4*6' +(!7+3 ? !8(+,:(!9,' <,9,($!,-!7,+8(!377*-8*! 436,-;!:' 8*8@!!_+37*88,3-' 9!' ()9*(*85!<3()!(*--,8!69' $*+8!' -4!7+3 ? !3()*+!C9$? 6,:!863+(85!)' I*!' -!,-:+*4,<9$! 8)3+(!0,-430!37!(, ? *!()' (!()*$!:' -!:3 ? 6*(*!' (!()*!),;)*8(!9*I*9!4=*!(3!()*!, ? ? *-8*!8(+',-!3-!()*!

()*,+!30-@#3#!!N=+()*+5!()*+*!,8!?=:)!*I,4*-:*!(3!8=663+(!()'(!()*+*!'+*!;+'I*!4'-;*+8!'883:,'(*4!0,()!'()9*(*8!=8,-;!8=<8('-:*8!,-!:3?6*(,(,3-@#3$!!#*:'=8*!37!()*!+,8/8!'883:,'(*4!0,()!436,-;!,-!863+(8!'-4!=-7',+!'4I'-(';*!()'(!<'--*4!8=<8('-:*8!6+3I,4*5!()*! E 3+94! F-(,GH36,-;!D34*!'-4!8,?,9'+!+=9*8!73+!3()*+!C9$?6,:!863+(8!0*+*!'-!*88*-(,'9!:3?63-*-(!(3!+*;=9'(,3-8!,-!6+37*88,3-'9!863+(8@!2)*! E 3+94! F-(,GH36,-;!F;*-:$08!*-73+:*?*-(!37!()*!+=9*8!,8!'-!,?63+('-(!,-(*+*8(5!83!()'(!