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&R1;21-&! >1-+&>1-%@1;!&X=;1#1-%*#(!a#! *!5.))@+,87$52$'()$JP'($/,,0&1$:5,2)*),.)$52$'()$
:58,+'+H)$6.+),.)$65.+)'<!E==(!B95HB9FG(!

)*+#,-*#V! "(! ' (V! iD*;M&#V! 8(V! f ! Y1#-*,V! g(! E569FG(! \X=;*3%#$! -+&! &R*;2-%*#134! *3%$%#,! *?!

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3&H&#1&!+2>1#,!1?-&3!J*%#-!1@-%R%-4(!

i i : *$&,&V! ' (V!)*+#,-*#V!"(V!:4*,%&3&V!Y(!E,2L>

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i i Y%;R&3V! l (V!)*+#,-*#V! "(! ' (V! f !Y1#-*,V! g(! [(!E5656G(!<*!M*$,!=3&?&3!-*!%#-&31@-!U%-+!-+&!U%##&3,! *?!@*>=&-%-%R&!%#-&31@-%*#,h!W1;e!=3&,&#-&M!1-!-+&!\1,-!/*1,-!/1#%#&!/*$#%-%*#! b *3e,+*=V! T&U!D1R&#V!/W(!

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: *$&,&V! ' (V!)*+#,-*#V! "(! ' (! f !Y1#-*,V! g(! [(!E5656G(!<*!+2>1#,!M%,32=-!@1#%#&!*;?1@-%*#! *3! %#?;2&#@&! ,&#,*34! >*M1;%-4! 2,&h! W1;e! =3&,&#-&M! 1-! -+&! \1,-! /*1,-! /1#%#&! /*$#%-%*#! b *3e,+*=V!T&U!D1R&#V!/W(!

i i Y%;R&3V! l (V!Z23;*#$V!\(V!)*+#,-*#V! "(! ' (V! f !Y1#-*,V! g(! [(!E569OG(!\X1>%#%#$!,*@%1;!&R1;21-%*#!%#! M*>&,-%@!M*$,(!W1;e!=3&,&#-&M!1-!-+&!5690!/*>=131-%R&!/*$#%-%*#!/*#?&3&#@&V! ' &;L*23#&V! Zg(!

8&;$3%>V! ' (V!\,=%#*,1V!)(V!W&@U4#V!\(V! ' 13-*#V!Y(V!)*+#,-*#V! "(! ' (V!:2@+,L12>V!<(!E569OG(!b +1-d,! -+&!=*%#-h!<*>&,-%@!M*$,d!2#M&3,-1#M%#$!*?!-+&!1@@231@4!*?!+2>1#!,*@%1;!@2&,(!W1;e!1-!-+&! "3-,!1#M!Y@%&#@&,!Y-2M&#-!Q#%*#!Q#M&3$31M21-&![&,&13@+!/*#?&3&#@&!%#!W*3*#-*V!`#-13%*(!

)*+#,-*#V! "(! ' (V!iT*,1#V!/(V!W&@U4#V!\(!/(V! f !Y1#-*,V! g(! [(!E569SG(!W+&!M*2L;&H&M$&M!,U*3M!*?! M*>&,-%@1-%*#]! <*$,!13&!;&,,!1M&=-!-+1#!M%#$*&,!1-!%#M&=&#M&#-!=3*L;&>!,*;R%#$(!W1;e! =3&,&#-&M!1-!/1#%#&!Y@%&#@&!Z*32>V!:2M1=&,-V!D2#$134(!

)*+#,-*#

8&;$3%>!! ' (!\,=%#*,1!)(!W&@U4#!\(!' 13-*#!Y(!)*+#,-*#!"(!:2@+,L12>!<(!E569SG(!<*>&,-%@!M*$,d!2#M&3,-1#M%#$!*?!-+&!1@@231@4!*?!+2>1#!,*@%1;!@2&,(!W1;e!=3&,&#-&M!1-!-+&!\1,-!/*1,-!/1#%#&!/*$#%-%*#! b *3e,+*=!%#!T&U!D1R&#!/W(!

[*-->1#!)(!)*+#,-*#!"(! ' (!:%&3+*??!Y(!8&;;&-%&3!W(!C3%$*3&R1!"(!:&#%-&j!)(! f !81-&;!8(!E569SG(!Y&;&@-%R&!-32,-!1#M!=*,%-%R&!&R1;21-%*#,!*?!@;&1#!%#?*3>1#-,!1@3*,,!M&R&;*=>&#-!1#M!@2;-23&(!W1;e!=3&,&#-&M!1-!-+&!569S!>&&-%#$!*?!-+&!/2;-231;!\R*;2-%*#!Y*@%&-4!W&>=&!"1(!

)*+#,-*#!"(! ' (!/+1#$!g(! b (! f !Y1#-*,!g(![(!E569FG(!a!@1#!M*!%-!>4,&;?]!<*$,!=3%*3%-%j&!%#M&=&#M&#-!=3*L;&>!,*;R%#$!*R&3!;**e%#$!L1@e(!W1;e!=3&,&#-&M!1-!-+&!569F!/*$#%-%R&!<&R&;*=>&#-!Y*@%&-4d,!:%&##%1;!' &&-%#$!8*3-;1#M!`[(!

)*+#,-*#!"(! ' (!E569FG(! b +1-!@1#!M*$,!-&1@+!2,!1L*2-!+2>1#!;&13#%#$h!W1;e!=3&,&#-&M!1-!:3*U#!Q#%R&3,%-4!Y*@%1;!:3*U#!:1$!83*R%M&#@&!a(!

)*+#,-*#!"(! ' (!E569FG(!W+3*2$+!-+&!&4&,!*?!M%#$*&,]!"!;**e!1-!M%#$*!@*$#%-%*#(!W1;e!=3&,&#-&M!1-!-+&!"2,-31;%1#!<%#$*!Z*2#M1-%*#!0%@-*3%1!"2,-31;%1(!

:%&3+*??!Y(!8&;;&-%&3!W(!)*+#,-*#!"(! ' (!:%3@+!Y(! f ![*-->1#!)(!E569FG(!<&R&;*=%#$!1!M%,M1%#!*?!M%3-%#&,,]! /+%;M3&#d,!1#M!1M2;-,d!,&;&@-%R&!-32,-!1#M!=*,%-%R&!&R1;21-%*#,!*?!@;&1#!%#?*3>1#-,(!W1;e!=3&,&#-&M!1-!-+&!569F!>&&-%#$!*?!-+&!Y*@%&-4!?*3!8+%;*,*=+4!1#M!8,4@+*;*$4(!:1;-%>*3&!' <(!

)*+#,*#!Y(!C(!:(!)*+#,-*#!"(! ' (!ic*R&#!' (!g(! f !c&%;!Z(!/(!E569FG(!83%#@%=;&,!2,&M!-*!&R1;21-&!>1-+&>1-%@1;!&X=;1#1-%*#(!W1;e!=3&,&#-&M!1-!-+&!569F!>&&-%#$!*?!-+&!/*$#%-%R&!Y@%&#@&!Y*@%&-4(!g*#M*#!\#$;1#M(!

iD*;M&#!8(!/(!)*+#,-*#!"(! ' (! f !Y1#-*,!g(![(!E569BG(!\X=;*3%#$!*R&3%>%-1-%*#!%#!M*$,(!W1;e!=3&,&#-&M!1-!P1;&!\#$%#&&3%#$!1#M!Y@%&#@&! b &&e&#M!569B!Y4>=*,%2>(!T&U!D1R&#!/W(!

)*+#,-*#!"(! ' (!)*+#,*#!Y(!C(!:(!Y+&,e%#! ' (!ic*R&#! ' (!g(! f !c&%;!Z(!/(!E569BG(!C*%#$!L&4*#M!-32-+H-31@e%#$]!W+&!M&R&;*=>&#-!*?!&X=;1#1-*34!=3&?&3&#@&,(!W1;e!=3&,&#-&M!1-!-+&!569B!:2M1=&,-!/\Q!/*#?&3&#@&!*#!/*$#%-%R&!<&R&;*=>&#-!:2M1=&,-!D2#$134(!

)*+#,-*#!"(! ' (!i ' 13?23-!Y(! f !c&%;!Z(!/(!E569AG(!/+%;M3&#k,!,&#,%-%R%-4!-*!12-+*3,+%=!@2&,!1#M!m21;%?%&3,!U+&#!&R1;21-%#$!-&X-(!W1;e!=3&,&#-&M!1-!-+&!569A!:%&##%1;!' &&-%#$!*?!-+&!Y*@%&-4!?*3![&,&13@+!%#!/+%;M!<&R&;*=>&#-!8+%;1M&;=+%1!8"(!

g1#M32>!"(! ' %;,!/(!)*+#,-*#!"(! ' (!f!8?;12>!"(!E569AG(!T1%R&!\=%,-&>*;*$4]!/+%;M3&#!2,&!,*@%-0.2(*237.6(U5.2411.90.8(')-0.2m/02.*23-0.2(!)!)1501%)0.2(&)0.2(.2(!)13.7(/(!)13.7())-0

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i i : 43#&V! ' (V! : 314V! \(V! ' 1@g&1#V! \(V!)*+#,-*#V! "(! ' (!E5656G(! \R%M&#@&!*?!U%#H

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b 1#-!-*!U*3e!,>13-&3*!#*-!+13M&3h!W+%#e!;%e&!1!M*$(!=+8$\(+,]D$96N7N9B!

8%@e! f !@+**,&w!<*$,!%$#*3&!L1M!1MR%@&!?3*>!+2>1#,(!N.5,5A+.$\+A)7$",@+&*!96N7N569B!

D&3&k,!*#&!U14!4*23!M*$!%,!1!L&--&3!;&13#&3!-+1#!4*2(!\" - N*!ON5FN569B!

P*23!M*$!%,!-**!,>13-!-*!?*;;*U!4*23!M2>L!+2>1#!1MR%@&(!_)Y$`5*]$ - &8&b+,)*!ON5FN569B!

W+&!M%#$*!%,!e&4!-*!&R*;2-%*#134!+%,-*34!*?!M*$,(!^\/N$:(&,,)1$M*!95N9BN569A!

Y@%&#-%,-,!$*!%#,%M&!-+&!>%#M,!*?!M*$,(!\5@&<$6(5Y*!95NON569I!

W+1-!M*$$*#&!%#-2%-%*#]!a,!4*23!M*$!,>13-&3!-+1#!4*2!-+%#eh!_=:$_+8('1<$_)Y7*!AN9N569I!

C;*L1;!,2,-1%#1L%;%-4!-+3*2$+!1!,*@%1;!=,4@+*;*$%@1;!;&#,]!/;%>1-&!@+1#$&!3&,&13@+!1-!Y8Y8!569I(!
!7<.($4)G5'!7N!N569I!

\X=&3-,k!1--%-2M&,!%#?;2&#@&!U+1-!@+%;M3&#!L&;%&R&(!6.+),.)$?&+1<!96N5SN5697!

P*2#$!@+%;M3&#!-32,-!e%#M#&,,!*R&3!&X=&3-%,&(!=*+'+7($!7<.(5158+.&1$65.+)'<$4)7)&*.($?+8)7'!
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g&1M&3,+%=!a#,-%-2-&!Z&;;*U*!b 1;;%,!"##&#L&3$!Z*2#M1-%*#!E5656G!

/*H`3$1#%j&3*!\1,-!/*1,-!/1#%#&!/*$#%-%*#!b *3e,+*=!E569SH5656G!

[&R%&U!81#&;!/+1%3*!Y*@%&-4!?*3![&,&13@+!%#!/+%;M!<&R&;*=>&#-!Y=&@%1;!W*=%@,!'&&-%#$!E569OG!

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6.+),.)$65.+)'<D$=+5158<$T)'')*7D$:(+1@$?)H)15GA),'D$:58,+'+5,!:0**),'$=+515'<D$:0**),'$
SG+,+5,$+,$$=)(&H+5&1$6.+),.)7*!?)H)15GA),'&1$!7<.(5158<*!N&*1<$N@0.&'+5,$&,@$
?)H)15GA),'D!NOG)*+A),'&1$!7<.(5158<D$[0A&,;/,+A&1$",')*&.'+5,$=011)'+,D!+6.+),.)*!
950*,&1$52$:5AG&*&'+H)$!7<.(5158<D$T)&*,+,8U=)(&H+5*D$\()$_&'+5,&1$6.+),.)$
B50,@&'+5,D$!))*9D$!)*7G).'+H)7$5,$!7<.(5158+.&1$6.+),.)D$!TS6$S,)D$!_/6D$
!*5.))@+,87$52$'()$45<&1$65.+)'<$=D$!7<.(5158+.&1$6.+),.)D$!7<.(5,5A+.$=011)'+,$U$
4)H+)YD$6.+),'+2+.$4)G5*'7D$65.+&1$?)H)15GA),'D$*),@7$+,$:58,+'+H)$6.+),.)$!

'&>L&3]!/*$#%-%R&!<&R&;*=>&#-!Y*@%&-4*!/*$#%-%R&!Y@%&#@&!Y*@%&-4

0%,%-%#$!Y@%&#-%,-V! ' %MM;&!Y@+**;!YW\ ' !83*$31>V!Z;4%#$!/;*2M!a#,-%-2-&!?*3!P*2#$! b *>&#!%#!
Y@%&#@&!E569BG!

a#R%-&M!Y=&1e&3V!Y@%&#@&K:" [V!T&U!D1R&#V!/W!E569BG!

a#R%-&M!Y=&1e&3V!/1>=!Q#;&1,+&MV!:&3e,+%3&,V! ' "!E569AG!

D%$+!Y@+**;!8,4@+*;*$4!/*23,&! ' &#-*3V!P1;&!81-+U14,!-*!Y@%&#@&!E5697H569IG!

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