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! "#$%&'()*#+, '+') - $%. $)+"$,#) - /#0&')
! "#$%&'()*+(*,*-.!"#$%&'()-+(*,*/()(1$23$45(6$77&8&(9:;&:<($=(>'#()(1':5;24"?+(9@45&(ABC4%4#4$5(D@%&7;(
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! "#\$%&'()*#+, '+') - \$%. \$)+"\$,#) - /#0&')
! "#\$%&'()*+(*,*-.!"#\$%&'()-+(*,*/(0(1\$23\$45(6\$77&8&(9:;&:<(\$=(>'#(0(1':5;24"?+(9@45&(

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! "#$%&'()*+(*,*-.!"#$%&'()-+(*,*/()(1$23$45(6$77&8&(9:;&:<($=(>'#()(1':5;24"?+(9@45&(
                                             ABC4%4#4$5(D@%&7;(
#C&(;C@F&;(:;&3(#$("$5;#':"#(8@'<&5#;W;K:@'&;+('&"#@587&;+(#'4@587&;W@'&(&;;&5#4@77J(#C&(;@<&H(N$'(PC&@+(#C4;(
8&$ < &#'J(:;&;(#C&(;@ < &(G$"@%:7@'J(@;(@%;#'@"#4$5(@53(<454<@74;<q(#C&(C:<@5(=48:'&(@53(4#;(<$G&<&5#(@'&(
2 C@#(@"#4G@#&;(@53(#'@5;=$' < ;(8@' <&5#;(45#$(;:FF7&+(F74@5#(<@#&'4@7;H(L5(#C&;&(;":7F#:'@7(;#:34&;+(#C&(@'#4:#(
&G$?&;(#C&(:5<4;#@?@%7&(":'G458(745&;($=(@(C:<@5(%$3J(3'@F&3(45(;$=#(=@%'4"H(
> h h A(YZ) > h(
1$'5(R$%$?&5+(h&2(M&';&J+(c54#&3(P#@#&;(
> < \&'4''@5+()[[\ \ ])\ T/(
62+,+0$&+("@H()\/[.)\T/(
62+,+0$&+("@H()\/[.)\T/(
62+,+0$&+()\T)(
F@F&'(@53(=@%'4"("$77@8&(
1 \& K : \&; \#(\$ = (R47 \# \$5(@53(A; \#@(X'@ < \&')))))
*, *) Hb - H), [+(*, )bHb - H), +(*, )bHb - H)), ((
>55\&(YJ@5(2@;(@5(><\&'4''@5(5\$G\&74;#+(F$\&#+(@53(;&7=U#@:8C#(@'#4;#(2C\$(2$'?&3(45(F@45#458+(F'45#<@?458+(@53())))))))))
;C&(V$45&3(#C&(F'45#<@?458(2$'?;C$F(>#&74&'()b(@53(<@3&(2$$3":#;+(<$5$#JF&;+(@53(45#@874$;(=&@#:'458(;&<4U
@%;#'@''#(=48:'&;(@53('4"C+(7@J&'&3(;:'=@''&(#&B#:'&;H(YJ@5(#'@5;=$'<&3(C&'(F'@''#4''&(45()\/[(@=#&'(;&&458(O&'<@5(
@'#4;#(X@'7(P"C4##2&';$("$77@8&;+(2C4"C(4<F'&;;&3(C&'(24#C(#C&4'(#@"#474#J(@53(#C&(45#&8'@#4$5($=("$<F7&B(@%;#'@"#(
=$'<;(45#$(@("$53&5;&3(;F@"&H(N'$<(#C&5(:5#47(C&'(3&@#C(;4B(J&@';(7@#&'+(YJ@5("'&@#&3(5&@'7J(=$:'(C:53'&3(;<@77U
;"@7&("$77@8&;(45"$'F$'@#458(=@%'4"+(=$:53(<&34@+(@53(C@53U<@3&(F@F&'H(L5(#C&;&(&B@<F7&;+(YJ@5("'&@#&;(745&@'(
"$<F$;4#4$5;($=(2$G&5(=@%'4";(@53(#&B#:'&3(F@F&';+(#C&4'(='@J&3(@53(;$<&#4<&;(#$'5(&38&;(&G$?458(#C&(8&;#:'&;(
$=(>%:#'@"#(ABF'&:;4$54; <+(@(<$G&<&5#(24#C(2C4"C(;C&(2@;(@:;$"4@#&3H(
M!(P>h | 9>h(
1$'5(1$;#$5+(9@;;@"C:;&##;+(c54#&3(P#@#&;(
> < \&'4''@5+(\%$'5() - )(
K2+,+0$&)F1/0&$&)R#\%7,2;H+("@H() \b,.) \b)(
=$73&3(@53(F'&::&3(2C4#&(3:"?(=@%'4"(
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*,*, \mathbb{H} - g\mathbb{H} \setminus (
#C&("$5;#':"#4$5($=(F4"#$'4@7(;F@"&(24#C("$5#'@:#458("$7$':(@53(745&;(#C@#(&B&'#(F'&;;:'&(:F$5($5&(@5$#C&'H(>(
#@7&5#&3(@%;#'@''#(F@45#&'+(P@53<@5(%&8@5(#$(#&;#(#C&(G4;:@7(7@58:@8&($=(>%;#'@''#(ABF'&;;4$54;<(45(#C&()\g,;(%J(
&BF&'4<&5#458(24#C(5&2(2@J;($=(:;458('@2("@5G@;H(IC4;(2$'?('&=7&"#;(P@53<@58;(:;&($=(@5(453:;#'4@7(F'&;;(#$(
F'$3:"&("'4;F(745&;($5(2C4#&(3:"?("@5G@;+(#C&'&%J('&7J458(:F$5(748C#(@53(;C@3$2('@#C&'(#C@5(F48<&5#(#$(
8&5&'@#&(@(8&$<&#'4"(F@##&'5H(IC&(@'#4;#(5$#&3r( IC4;(F'$"&;;($=(<@?458(#C&(<@#&'4@7(<@'?(4#;&7=(@7#&';(#C&(
;: '=@''&q(748C#(;#'4?458(#C&(=$73;(@53('''&@;&;('''&@#&;(@('&<@''?@%7&('@58&($=(G@7:&(;C4=#;H`(i$''?;(;:"C(@;(#C4;(3&=J(
 \&@; J("@\#\&8\$'4a@\#4\$5r("'@\#\&3(='\$<(=@\%'4''+(4\#(<48C\#(2\&77(\%\&(:53\&';\#\$\$3(@;(@(\#\&B\#47\&H(R\$2\&G\&'+(\#C\&(@'\#4;\#("\$5;43\&';(4\#(A)A)A)A)A)A)))))))) ) ) ) ) ) ) ) \\
@(3'@2458+(&G&5(#C$:8C(;C&('&74&;($5(F'&;;:'&W@(#&"C54K:&($=(F'45#<@?458W'@#C&'(#C@5(F&5"47;($'(45?H(
R!hO(QR>hO(
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1$'5(PC&5J@58+(6C45@(
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! "$)=4$)/>)+"$)!/#2%&/+(*,*-(
6C45&;&(45?($5(L#@74@5(>7"@5#@'@(=@%'4"(
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/1

! "#\$%&'()*#+, '+') - \$%. \$)+"\$,#) - /#0&')

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                                             ABC4%4#4$5(D@%&7;(
9:;&:<(E:'"C@;&+(O'&&5@"'&;(>"K:4;4#4$5(N:53(
*,*-||-[||-(
N$'(<$'&(#C@5(#2&5#J(J&@';+(R$58(OC@58(C@;(:;&3(C@4'(#$(&BF7$'&(=&<45454#J+(<&<$'J+(@53("'$;;U":7#:'@7(
"$55&"#4$5;H(R&'&+(OC@58(#'@5;=$'<;(7$58+(&5#@587&3(;#'@53;($=(C@4'(45#$(@5(4"$54"('&F'&;&5#@#4$5($=(C&'(@3$F#&3(
C$ < &(45(X@5;@;r(@(#24'7458(#$'5@3$h(L5(#C4;(2$'?+(;C&(@7;$("$<F74"@#&;(#C&('&7@#4$5;C4F($=(2&:#&'5(@53(&@:#&'5(
@'#(=$'<;+(@(2@J($=(&BF7$'458(C&'($25(43&5#4#J(@;(@5(><&'4"@5(@'#4;#($=(6C45&;&(3&;"&5#!(N$'(45;#@5"&+(#C&(
=$'<@#($=(#C&(C@58458(;"'$77(4;(@(:#@F7&(45(#C&(6C45&;&(7@53;"@F&(#'@34#4$5+(@:(4#(@'''&5#:@#&:(@5(A@:#&'5(
FC47$;$FCJ($=(;F@#4@74#J(@;(=7:43(@53(:5=4B&3H(Z&#(#C&(3J5@<4"(%':;C(;#'$?&;(&K:@77J(&G$?&(#C&(8&;#:'@7(
&<%'@'&($=(L#@74@5(>7''@5#@'@(=@%'4''(@;(@;:FF$'#(=$'(C&'(3'@2458;H(A<F7$J&3(#$(745&(#C&(45#&'4$';($=(@:#$<$%47&;(
@53(@4'F7@5&;+(#C&(:;&($=(#C4;(<@#&'4@7(=$'(@'#<@?458(3&<$5;#'@#&;(QC@58S;(&58@8&<&5#(24#C(<@#&'4@7;+(
#&"C5$7$84&;+(@53(455$G@#4$5;(45(@(87$%@7("$5#&B#H(
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N&<454;#(@53(@5#4U2@'(@"#4G4;#(h@5"J(PF&'$(3&34"@#&3(C&'(@'#4;#4"("@'&&'(#$("C'$54"7458(;$"4@7(4;;:&;+(F$74#4"@7(
"$5"&'5;+(@53(#C&(&BF&'4&5"&;($=(2$<&5($5(@(87$%@7(;"@7&+($=#&5(45("$77@%$'@#4$5(24#C(C&'(C:;%@53(@53(=&77$2(
@'#4;#(D&$5(O$7: %H(L5(#C&() \ b, ;(@53() \ [,;+(PF&'$("@;#(@("'4#4"@7(7&5;($5(#C&(G4$7&5"&(:5=$73458(45(<@5J(D@#45(
> < &'4"@5("$:5#'4&;+(45"7:3458(A7(P@7G@3$'+(2C4"C(2@;(&<%'$47&3(45(@("4G47(2@'(='$<()\b\.)\\*H(L5(#C4;("$77@8&+(
PF&'$(3&F4"#;(@(<$#C&'("'$:"C458(F'$#&"#4G&7J($G&'(C&'("C473H(IC&(#'4F7&U'&F&@#&3(4<@8&("$5G&J;(@(;&5;&($=(
< $#4$5+(;:88&;#458(#C@#(#C&J(@'&(=7&&458($'(&;"@F458(3@58&'H(L5(#C&(#$F(7&=#("$'5&'+(@(;&@#&3(2$<@5(2@47;+(
F&'C@F;(7@ < &5#458(#C&(@#'$"4#4&;(#@?458(F7@"&H(PF&'$$;(=$":;($5(2$ < &5(@53("C473'&5(&<FC@;4a&;(#C&(C:<@5(
"$;#;($=(20'+(F$2&'=:77J(;&'G458(#$(3&5$:5"&(G4$7&5"&(@53(3&<@53("C@58&H(
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sss(
IC&(L5348&5$:;("$<<:54#4&;($=(9@45&+(#C&(6@5@34@5(9@'4#4<&;+(@53(F$'#4$5;($=(^:&%&"(@'&(?5$25(#$3@J(@;(#C&(
i @%@5@?4(6$5=&3&'@"J+(2C4"C(45"7:3&;(#C&(>%&5@?4+(E&5$%;"$#+(E@;;@<@K:$33J+(9@74;&&#+(@53(94"<@"H(
i @%@5@?4(@'#4;#;(C@G&(2$G&5(%@;?&#;(;45"&(#4<&(4<<&<$'4@7H(i4#C(A:'$F&@5("$7$54a@#4$5(@53(#C&(=$'"&3(
'&<$G@7($=( i @%@5@?4("$<<:54#4&;(='$<(#C&4'(@5"&:#'@7(C$<&7@53;+(%@;?&#(<@?458(&<&'8&3(@;(@(;$:'''&(5=(
&"$5$<4"(453&F&53&5"&(@53('&;4;#@5"&(#$(@;;4<47@#4$5H(1@;?&#;("$5#45:&3(#$(;&'G&(:#474#@'4@5(F:'F$;&;+(%:#(
545&#&&5#CU"&5#: 'J(2&@G&';(@7;$(455$G@#&3(5&2(=$'<;+(?5$25(@;(=@5"J(%@;?&#;+(#$(<&&#("$77&"#$';$(#@;#&;H(
I$3@J+(%@;?&#(<@?458('&<@45;(@(F$2&'=:7(G&C4"7&(=$'(&BF'&;;458(@'#4;#4"("'&@#4G4#J(@53(;C@'458(#'@34#4$5@7(
?5$27&38&(24#C(5&2(8&5&'@#4$5;($=(2&@G&';H(
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! "#\$%&'()*#+, '+') - \$%. \$)+"\$,#) - /#0&')

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@;C+(%4'"C(%@'?+(;2 &&#(8'@;;+(@53("\$<<&'"4@7(3J&(9:;&:<(E:'"C@;&+(>55&(]\$';&J(D\$#C(>'#(>"K:4;4#4\$5(N:53(*,*-H/,((

b