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\$"(&'?'.'5*,(62"*9"U66(7.%'+,"0*,,.@._\U66(7.%'+,`"*<_'?'.'0*,,.@.`]"**"1+(%'+(%+"%".%B(<*"1.%'"9*<'&'7.%'&/'9+6), '2"/+71(%(&'<+'*<&/'&'99/"7"7"B(&'<&'?'+'(&'9<..'9"+,,99*<1&"9"7(&6<(1(%+'(*%"+%7"?'<+&&1.%'/'(%6,)7(%@&.4)+,"+%7"(%'.<5.<&*%+, "1(&6*%7)6'a">?. "0*,,.@."?'&".%+6'.7"?'(&'J.4)+,"+%7"\$%'.<5.<&*%+, "Q(&6*%7)6"7"G*,(62"_G*,(62`]"**"<.9,.6"+%7"1+(%'+(%'(&'(%&'(')(*%+, "B+,).&"+%7"6*11)%(2".45.6+'(*%&/'**"5<*B(7."9*<'9+(<"+%7".X)('N,. "5<*6.7)<.&"9*<'7.'.<1(%(%@I?'.'**'(&'G*,(62"?'&N..%B(*,+'.7"/+%7"***"5<*B(7."<.6*)<&."9*<'(%7(B(7)+,&"+%7"?'.'6*11)%(2'a"

>?(&'G*,(62"5<*?(N('&+, "99*<1&"9"7(&6<(1(%+'(*%*"<?'<+&&1.%'"**"'?'.'N+&(&"*9"&.4"/(%6,)7(%@"**"'?'.'N+&(&"*9"&.4"/&.4)+,"*(<.(%'+(*%/"@.%7.<".45.<.&(&(*%/"@.%7.<"(7.%'('2"/*<.<5<*7)6'(B."?'.,?'7.6(&(*%:1+Y(%@]"/(%6,)7(%@&.4)+,"+&&+), '/'7+'(%@"B(*.%6."/7*1.&'(6"B(*.%6."/&.4)+,".45,*('+'(%%/'&'+,Y(%@"+%"7"6*15,(6"2'a">?(&'G*,(62"+,&*5<*?(N('&<.'.+,('+'(%%"+@+(&'**"+5.<&*%I?'<.5*<'&/'6*15,+(&&"N*)'/'*<I?'**'?'<I(&."5+<'(6(5+'.&'(%@"**7"9+'?"/+%"2"1+'.'<.,+'.7"***'(&'G*,(62'a"H,, "'?.'99*<.@*(%@"6*%7)6"7I(., "N."<.9.<..7"***"+&_G<*?(N('7"0*%7)6'a`"

U66(7.%'+,"0*,,.@."7*.&%"**"7(&6<(1(%+'."**"'?'.'N+&(&"*9"&.4"/(%'('&".7)6+'(*%+, "/.4'<+6)<<(6),+</'+'?., '(6"*<*"?'<.5<*@<+1&"*<'(%"'?'.'6*%'.4"***9".15,*21.%'a"J.4"7(&6<(1(%+'(*%")&"5<*?(N('7"N2">(&."\$E"*9"?'.'37)6+'(*%)"H1.%71.%'&"*9"! [M#/"9.7.<+, "+I"?'+"5<*B(7.&V"

8*5.<&*%("?'?'.'W%('7"J'+'.&'&?+,,/"**"'?'.'N+&(&"*9"&.4"/N".46,)7.7"9*1"5+<'(6(5+'(*%")/N."7.%('7"?'.'N.%9('&"*9"***<N."&)Nb.6'.7"***7(&6<(1(%+'(*%")%7.<"+%2".7)6+'(*%)"5<*@<+1"*<"+6'(B'2"<.6.(B(%@"L.7.<+, "9(%+%6(+,"+&&(&'"+%6.a"

J.4)+,"?'<+&&1.%'"(&'+,&*5<*?(N('7")%7.<)>(&."\$E"/>(&."-\$*\$9"?'.'0(B('C(@?'&'H6"***9"! [K=/'?'.'0+, (9*%<(+L+(<'315,*21.%'"7"O*)&(%@"H6'/"7"***'?'<+55,(6+N,.'&'+').&a">?(&'G*,(62"5<*?(N('&'&.4)+,"?'<+&&1.%'"@+(&"U66(7.%'+,"6*11)%(2"1.1N.<&"*9"+%2"&.4"/&.4)+,"*(<.(%'+(*%/"@.%7.<"(7.%'('2"/*<@.%7.<".45.<.&(&(*%")('?'.'6*%'.4"***9".7)6+'(*%*"<.15,*21.%'a">?(&'G*,(62"+,&*5<*?(N('&@.%7.<:N+&.7"?'<+&&1.%'"**'?'+'7*.&"**"(%B*B."6*%7)6"***9"+&.4)+,"%+'<.a"

>?. "0*,,.@."&'<*%@,2".%6*)<+@.&+, "1.1N.<&"*9*)<6*11)%(2"***+6"***"1+(%'+(%+"%7"9+6,(+'."'+&'9"/I.,6*1(%@"+%"7"<.45.6'9),".%B(<*"1.%'"**%"6+15)&a">?. "0*,,.@.".45.6'&"?'+"+, "U66(7.%'+,"6*11)%(2"1.1N.<&"I(., "Y."<.+&*%+N,."+%7"5<)7.%'"6'(*%&"**"5<.B.%'"*<*&'*5"G<*?(N('7"0*%7)6'a">?. "0*,,.@."&'<*%@,2"&55*<'&"(7(B(7)+,&"I?'*6?***&."**'+Y."&)6?"6'(*%"+%7"7I(., "5<*'.6"&)6?"(7(B(7)+,&"9*1"<.'.+,('+'(%%a"W5*%<.6.(5"***9"+<.5*<'/'?'.'0*,,.@."I(., "Y."5<*15"+%7".X)('N,."6'(*%")**"..(1(%+'.'?'.'G<*?(N('7"0*%7)6"7\9"+%2]"/5<.B.%'"('&"<.6)<<.6."/+%"7"<.1.72('&".99.6'&a"\$%"+77('(*%/"?'.'0*,,.@."I(., "9),9(., ('&"*N,(@+'(*%&)%7.<'?'.'-(*,.%6."H@+(&&"c*1.%"C.+)'?'<(d+'(*%)"H6"***9"#R!S"_HcH"]+1.%71.%'&"**"'?'.'e.+%%. "0, <2"; (&6,*&)<."*9"0+15)&"J.6)<'2"G*,(62"+%7"0+15)&"0<(1."J'+('&6"H6"7\0, <2"H6"7]("%<.45*%&."**"<.5*<'7"

5D\$!9877\$E\$F:!9'(!G'ED&:!H!5'&7\$!; I!988.@', +&8.!!

>?. "0(B("C(@?'&"D">(',\$E"0**<7(%+'*<"6**<7(%+'.&"+%7" 1+%+@.&"'?. "0*,,.@.A&"6* 15,(+%6." I('?"
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.%&)<."6*%&(&'."%"(15,. 1.% '+'(*%*"9"'?(&"G*(62"+%7"6* 15,(+%6." I('?"9.7.<+, "+%7"&'+'.' ,+ I a">?. "
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>?(&"G*,(62"+55,(. &"*"+,,"<.5*<'&"*9"G<*?(N(' .7"0*%7)6'"<.6.(B.7*%*"<"+9'.<"'?. .99.6'(B."7+'."*9'?'(&"G*,(62a"\$9"'?. "+, .@.7"G<*?(N(' .7"0*%7)6'"*66)<<.7"N.9*<."?'?. .99.6'(B."7+'."*9'?'(&"G*,(62/" +55,(6+N, .7.9(%('(*%&"*9"1(&6*%7)6'"(%0*,,@.5*,(6.&"(%".4(&' .%6."+'?."(1."*9'?'."6*%7)6'"I(,," N.")&.7"*'?' .4'.%' "'?+'? .2"6*%9,(6" I(' ?7.9(%('(*%&"*9" .<1&"(%"'?(&"G*,(62a">?." ^<(.B+%6." G<*6.&&.&)"%7.<"' ?(&"G*,(62" I(,,"N.")&.7"*'(%B.&'@+'." +%7'<.&*,B." +,,"<.5*<'&"1+7." *<'?'+'<." 5.%7(%@*"%*"<"+9'.<"'?. .99.6'(B."7+'."*9'?'(&"G*,(62/"<.@+<7,.&&"*9" I?.'%'"?."(%6(7.%'\&]""*66)<<.7a""

>?(&"G*,(62")&.&"'?. ".<1&"6* 15,+(%+%/'<.&5*%7.%'/'?'(<7"5+<'2"/+%7" I('%.&&"&"9*,, * I &V"

f _____V" H%" (%7(B(7)+, " I ?*" (& <.5*<' .7" '* ' ?+B." .45.<(.%6.7" 6*%7)6'" ' ?+' 6*),7" 6*%&'(')'. "G<*?(N(' .7"0*%7)6'" /" .B."(9'?' .2"7*%*"5<'(6(5+' .(%+%2"<.,+' .7"5<*6.&&a"

f _____V" H%" (%7(B(7)+, " I ?*" ?+&N. .%<.5*<' .7" '* ' ?+B." .%@+@.7"(%6*%7)6'" ' ?+' 6*),7" 6*%&'(')'. "G<*?(N(' .7"0*%7)6'" a"

f _____V" H"6* 15,+(%+% "'<.&5*%7.%'5<'(6(5+'(%@('%"<.&*,)'(*%5<*6.&&a"

f _____V" H%" (%7(B(7)+, " I ?*" 1+2" ?+B." (%9*<1+'(*%<.,.B+% "'*"+<.5*<' *9" G<*?(N(' .7" 0*%7)6'" a" H" I('%.&&" 1+2"N."+'&')7.%'/'+"%". 15,*2../'*<+'?'(<7"5+<'2a"

U66(7.%'+,"0*,,@.A&"5<(1+<2"6*%6.<%"(&"&')7.%'+%7". 15,*2.."+9.'2a"L* <".B.<2"<.5*<'/'?'."0(B, " C(@?'&"D">('.,.\$E"0**<7(%+'*<" I(,,"<.B.(I"'?'."6<6) 1&' +%6.&"*9'?'."<.5*<' .7"6*%7)6'" *7.'.<1 (%." I?.'?'<"'?. "0*,,@."?+&"b)<(&7(6'(*%*"<7(&6(5,(%+<2'+)'?*<'2"*B.<'?'."<.5*%7.%' '*<'?'."6*%7)6'" a" \$%" .4.<6(&(%@b)<(&7(6'(*%*"B.<+%U66(7.%'+,;+99,(+ .7.<.5*%7.%'9*<.<.5*<' .7"6*%7)6'" ?+' *66)<&" *99"6+15)&' +%7" ?+' ?+&"%*" .4)&" '* ' ?'. "0*,,@." *<+" 0*,,@. :.<.,+' .7" *' &5*%&*<.7" .7)6+'(*% 5<*@<+1 " *<"+6'(B('2"/'?'."0*,,@.A&"+N,('2" '* ' (%B.&'@+'." +%7" (15*&."7(&6(5,(%+<2'+)6'(*% 1+2"N." , (1('7a"\$% "(%&' +%6.&" I?.<."?'."0*,,@."7*.&"*"'?+B."7(&6(5,(%+<2'+)'?*<'2"*B.<'?'."<.5*%7.%'/' ?'."0*,,@." I(,,"&'(',"+Y."<.+&*%+N,2"+B(+,N, ."&' .5&"*%&')55*<'+"6* 15,+(%+% "'?<*)@?'('%.<(1 " *< &')55*<'(B."1.+&)<.&" +%7" I(,,"+&&(&"+"6* 15,+(%+% "'(%(7.%'(92(%@" .4'.<+%+,"<.5*<'(%@" 1.6?+&(& 1 a""

>?(&" G*,(62" +55,(. &" '*"+,," U66(7.%'+, " 6* 1 1)%('2" 1.1N.< &/" (%6,)7(%@" &')7.%'&/" 9+6), '2/" +7 1 (%(&'<+'*<&/" &' +99/" B*),%'.< &/" B.%7* < &/" 6*% '<+6' * < &/" B(&' * < &/" +%7" (%7(B(7)+, &' < .@), +<2" * < ' .15* < +< (2" .15,*2.7" 6*%7)6'" (%@" N)&(%.&&/" &')72(%@" /" , (B(%@" /" B(&' (%@" /" * < ' ?+B(%@" +2" *99(6(+, " 6+5+6('2" I('?'?'."0*,,@." * < " * % "('&' 5 < * 5 . < ' 2 a " > ? . " 0 * , , @ . " & ' < * % @ , 2 " . % 6 *) < + @ . & ' < . 5 * < ' & " * 9 " G < * ? (N (' . 7 " 0 * % 7) 6 ' " < . @ + < 7 , . & & " * 9 " I ? * * . % @ + @ . 7 " (" " " ? . " 6 * % 7) 6 ' a " " "

>?(&"G*,(62"+55,(. &"*"+,,"*%:6+15)&"6*%7)6'" +%7'&* 1 . *99:6+15)&"6*%7)6'" /+&"7.&6<(N.7"N., * I a" >?."0*,,@."&'< * % @ , 2 " . % 6 *) < + @ . & ' < . 5 * < ' & " * 9 " G < * ? (N (' . 7 " 0 * % 7) 6 ' " < . @ + < 7 , . & & " * 9 " , * 6 + ' (* % a " 3 B . % " (9 " " ? . " G * , (6 2 " 7 * . & " % * " " + 5 5 , 2 " ' * " " ? . " 6 * % 7) 6 ' " N . 6 +) & . " * 9 " (' & , * 6 + ' (* % " / " ? . " 0 * , , @ . " I (, , " + Y . " 5 < * 1 5 " " + 6 ' (* % " ' * 5 < * B (7 . " 9 * < " ? . " & + 9 . ' 2 " + % 7 " I . , , : N . (% @ " * 9 " ? . " 6 * 1 5 , + (% + % " " + % 7 " " ? . " N < * + 7 . < " 6 + 1 5) & " 6 * 1 1) % (' 2 a " "

f _____V"0*%7)6'" ?+' *66)<&"*%:6+15)&/"(%6,)7(%@"6*%7)6'" I?(6?"*66)<&"*% 5<*5.<'2"* I % .7"*<'6*% '<*,.7"N2"'?'."0*,,@.a"

f _____V"0*%7)6'" ?+' *66)<&"(%'"?."6*%' .4"'*9"0*,,@." .15,*2 1.% "'<' .7)6+'(*% "

f $\frac{V^0 * 7) 6''' ? + '* 66) < \& * 99 : 6 + 15) \& + \% 7'' ? + \& " 6 * \% '(\%) (\% @ + 7 B . < \& . " . 99 . 6' \& "$
 $* \% / " * < " 6 < . + ' . \& + " ? * \& '(, . " . \% B (< * \% 1 . \% " 9 * < / " + \% 2" 1 . 1 N . < " * 9" ' ? . " U 66 (7 . \% '+ , " 6 * 1 1) \% (' 2" * \% :$
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! "#\$%&' (&)%*+, \$& - , . , // 0 %1#&

_>(',\$E"J.4)+,"O+<+&&1.%"`"(&+"&)N&."*9"G<*(N('7"0*%7)6'a"W%7.<";.5+<'1.%"*9"37)6+'(%%<.@),+'(%%&"\ "S="0aLaCa"G+<!"RKJ]"(&&).7"(%Q+2"#R#R"*"(15,.1.%">(',\$E"*9"?."37)6+'(%%<H1.%"71.%"&"*9"! [M#/"'?."0*,,.@"(&<.X)(<.7"*5<*(N("6.<+'(%9*1&"*9&.4)+,"?+<+&&1.%"+"&7.9(%7"(%"?*&."<.@),+'(%%&a""

G<*(N('7"0*%7)6"1.. '&'?. "7.9(%('(%%*9">(',\$E"J.4)+,"O+<+&&1.%" I?."%V""

H%"315,*2.. "6*%7('(%%&"?."5<*B(&(%%*9"+%+(7/"+"N.%9('/"*<+"&.<B(6."*%"+%("7(B(7)+,A&"5+<'(6(5+'(%%(")% I.,6*1."&.4)+,"6*%7)6""(a.a"" "&.4)+,"?+<+&&1.%"']/" I('?(% '?. "W%('7"J'+'.&i"*<"

H"J')7.%"/'315,*2.. /"*< ">?(<7"G+<'2".%@+@.&"(%)% I.,6*1."6*%7)6""*%""?."N+&(&"*9&.4" '?+" I*),7"N."7.'.<1(%7"N2"+<.+&*%+N,. "5.<&*%""*N."&*"&.B.<./"5.<B+&(B./+%7"*Nb.6'(B.,2" *99.%&(B."?'+"(" .99.6'(B.,2"7.(.&+"*'?.<5.<&*%".X)+,"+66.&&"*""?."0*,,. @.A&"5<*@<+1&" *<"+6'(B('.&/'(%""?."W%('7"J'+'.&i"*<"

H"J')7.%"/'315,*2.. /"*< ">?(<7"G+<'2".%@+@.&"(%"J.4)+,"H&&+),/' ; *1.&'(6" - (*,.%6./" ;+'(%@" - (*,.%6./"*<"J.4)+,"+%7g*^.%7.<:N+&.7"J'+,Y(%@"+&"7.9(%7"N.,* Ii"+%7"

- o >?. "+,,. @.7"6*%7)6" I+&"5.<5.'<+'.7"+@+(%&""+"5.<&*%("""?."W%('7"J'+'.&i"+%7"
- o >?. "6*%7)6""*Y"5,+6." I('?(%""?."0*,,. @.A&"5<*@<+1&"+%7"+6'(B('.&a"

0*%7)6""+Y.&"5,+6." I('?(%""?."_0*,,. @.A&"5<*@<+1&"+%7"+6'(B('.&" I?."%""?+"6*%7)6""*66)<&V\!]" (%"+,*6+'(%%/'+"%".B.%/'/*<("+"6(<6)1&"+%6." I?.<."?"0*,,. @."4.<6(&.&"&)N&'+%'+,"6*%'<*,*B.<N*?'""?."<.&5*%7.%"+"%7""?."6*%'4"(% I?(6""?."6*%7)6""*66)<&i"*<#\#]"(%+%2"N)(,7(%@" I%.7"*<6*%'<*,.7"N2"+&'7.%"*%<@+% (d+'(%%<.6*@(d.7"N2""?."0*,,. @.a"3B.%&""?+"*66)<"*99"6+15)&"*<(%,"*6+'(%%&" I('?'%*"6*%%.6'(%%""*""?."0*,,. @."+<."%),(Y.,2"*N."6*%&(7.<.7"+0*,,. @."5<*@<+1" *<

>(',\$E&.4)+,"+&&+),"(6,)7.&"<+5./"9*%7,(%@/"(6.&'/*<'&'+')'*<2"<+5./"7.9(% .7"+&'9*,,* I &V"

f C+5."(&"?".5.%.<+'(*%/"%*" 1+''.<?* I "&,(@?"/"*9"?. "B+@(%+"*"+%)&" I ('?"+%2"N*72"5+<"*<" *Nb.6/'/*<"*<+,:@.%('+,6*%' +6'"*9"+%*'?.<"5.<&*% I ('?*)"+99<1+(B."6*%&.%'a"

f L*%7,(%@(&"'?. '*')6?(%@"*9"?'." 5<(B+'."N*72" 5+<'&"*9"+%*'?.<"5.<&*%"9*<"'?. "5)<5*&."*9"

V" j)(7" 5<* X)*" ?+<+&& 1 .% " *66)<&" I ? .% &)N1 (&&(*% " '* " *<
<.b.6'(*%*"9")% I .,6* 1 ."6*%7)6"(&")&.7"/.45,(6('2"*<(15,(6('2"/+&""? ."N+&(&'9* <7.6(&(*%&
+99.6'(%@" +%" (%7(B(7)+,A&" .7)6+'(*%" \.a@a/" +71 (&&(*%/" +6+7. 1 (6' &'+%7(%@"/" @<+7.&/"
+&&(@% 1 .%'ji" .15,*21 .%' "\.a@a/" ?(<(%@" +7B+%6. 1 .% '/' +&&(@% 1 .%'ji" * <5+<'(6(5+'(*% "(%"+
0* ,,.@."5<*@<+ 1 "*<"+6'(B('2"\.a@a/"6+15)&"?*)&(%@]a

C. '+,(+(*% "(%6,)7.&"+7B.<&."+6'(*% " '+Y.%"+@+(%&"" +5.<&*% " 9* <1 +Y(%@" +@**7"9+('?'<.5* <" *9"
G<*?(N('7"0*%7)6""* <5+<'(6(5+'(%@"(%"+2"5<*6..7(%@")%7.<'?(&"G*,(62a"H7B.<&."+6'(*% "(%6,)7.&"
6*%7)6""'+""?'<.'+%&/" ('(1(7+'&/" ?+<+&&.&/" 6* .<6.&/" * <'?'+" &..Y&" '*7(&6*)<+@." +<.+&*%+N,."
5.<&*% "9<* 1 " .%@"+@(%@"(%"+6'(B('2"5<*'.6'.7")%7.<'?(&"G*,(62a"C.'+(+(*% "6+% "N."6* 1 1 ('.7"N2"*<
+@+(%&""+2"(%7(B(7)+, "*<@<*)5"*9"(%7(B(7)+, &/"%*"b)&""+"0* 15,+(%+% ""* <"C.&5*%7.% 'a"C.'+(+(*% "
7* .&%"*% "(%6,)7."@**7"9+('?'+6'(*%&"+I9),,2"5)<&).7"(%<.&5*%&."*"+<.5* <"*9"G<*?(N('7"0*%7)6'a"
C.'+(+(*% "1+2"N."5<.&.% " .B.% "I ? .<."?<."(&"+9(%7(%@"*9"_%* <.&5*%&(N,('2`"I ('?'<.&5.6""*""? ."
+,,. @+(*%&"*9"G<*?(N('7"0*%7)6'a"
!
>?."0* ,,.@."I(,,"+Y."(1 1.7(+."+%7"<.&5*%&(B."+6'(*% ""*"+%2"<.5* <"*9"<.'+(+(*% "+%7" I(,"5)<&)."
7(&6(5,(%+<2"+6'(*% "+&" +55<*5<(+'.a" H%" (%7(B(7)+, "<.5* <'(%@" G<*?(N('7" 0*%7)6" (&)."%'('.,7" '*"
5<*'.6'(*% "9<* 1 "+%2"9* <1 "*9"<.'+(+(*% "9* ,,* I(%@"+<.5* <"*'+""(& 1+7."(%@"**7"9+('?'/" .B.% "(9"?'."
<.5* <"(&"+'<.%*"5<*B.%a"
"

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; .5+<1 .% "" *9" L+(< 3 15,*21 .% "" +%7" O*)&(%@" _ ;L3O`j" * <" '?'." 9.7.<+, 3X)+, U55* <")%('2"
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8.39": "#%7& ; %\$, #31/9" </&&

J.4)+, "*<"<* 1+% '(6<.,+(*%&?(5&"(% "I ?(6?"*% ."5+<'2" 1+(%'+(%&" k "+%7"9+(&""*5<* 15',2"<.5* <"+"%7"
7(&6*% '(%) . " k "

3B.%"(9"+%".15,*2..*9"'?.0*,,.@."\.46,)7(%@"&')7.%"' .15,*2..&]7* .&"%*"?"*,7+"5*&'(%%"*9
+)'?*<('2*B.<+"&')7.%'/"%2&.4)+,"*<*<1+%'(6'<.,+'(%%&?(5'N.'I..%"+%".15,*2.."+%7+"&')7.%'
9"?'."0,,.@."6*),7"b.*5+<7(d."?'."(%' .@<('2"*9"?'." +6+7.1(6"+%7", (B(%@" .%B(<*"1.%'"*9"?'."
U66(7.%'+,"6*11)%('2"+%7"7+1+@."?'."&')7.%'>?<.9*.</"&.4)+,"*<*<1+%'(6'<.,+'(%%&?(5&
N.'I..%"+%".15,*2.."+%7"+%2'&')7.%'"*9"?'."0*,,.@." +<."5<*(N('7a" H"&.4)+,"*<*<1+%'(6'
<.,+'(%%&?(5(%"B(*,+'(%%"*9"?'(&"&.6'(%%"1+2'<.&), "(%7(&6(5,(%+<2'+6'(%%"+@+(%&"'"?'."15,*2.."/)5"
'*"+%7"(%6,)7(%@"7&1(&&+,a"

346.5'(%%&"*"?'&."5<*(N('(%%&" I(,"N."6*%&(7.<.7"*%"+6&.:N2:6+&."N+&(&"N2"?'."0?(.9"O)1+%
C.&*)<6.&"U99(6.<("6*%&),+'(%%"I('?'?'."0(B(,"C(@?'&"D">('.,."\$E"0**<7(%+*%<"+%7"?'."
&).5.<B(&*<]&]"*9"?'."(%7(B(7)+,]&])(%B*,B.7a">?."(%7(B(7)+,"I('?'?'."5*%I.<*"<*&'&')&"+7B+%'+@."(%
'?'<.,+'(%%&?(5"1)&'<.X).&"'"?'."46.5'(%%("I<('(%@a">?."0?(.9"O)1+%C.&*)<6."U99(6.<I(,"
<.&5*%7"*"?'<.X).&"'"I<('(%@a"G*%&&(N,."46.5'(%%&"1+2'(%6,)7.V!]'"?'<.,+'(%%&?(5".4(&'.7"5<(*<
'*"?'."99.6'(B."7+'."*9"?'(&"G*,(62i"+%7g*%<#]"'"?'<.,+'(%%&?(5".4(&'.7"5<(*<'*"+6'+%@."(%'.'?'<
5+<'%.<A&"&'&')&"+'"?'."0*,,.@."a"

≡%>"1"#"31/3>?%@&!%.0/k,17&A#9%.&B31/"7%.,#"31/k

>*%5<*(B(7."6,+<('2'+&"*"?'."Y(%7&"*9"N.?"B(*<'?'+"6*%&'(')."G<*(N('7"0*%7)6'/"?'."0*,,.@."
7.9(%.&"Y.2"'.<1&"I?(6?)I(,"N.")&.7"(%".B+,)+'(%@"I?'?'<G<*(N('7"0*%7)6'"+&"*66)<<.7a"

_H99(<1+'(B."0*%&.%'\`"(&+%"+99(<1+'(B."/6*%&6(*)&"/+%7"B*,)'+<2'+@<..1.%'"*%".%@+@."(%"&.4)+,
+6'(B('2a"H99(<1+'(B."6*%&.%'"(&"<.X)(.7"9*%<+%2'&.4)+,"+6'(B('2'"*%66)<"N.'I..%'"I*"*<1*%<."
(%7(B(7)+,&a"\$"(&"'"?'<.&5*%&(N,('2*9".+6?5.<*&*(%B*,B.7"(%"?'."&.4)+,"+6'(B('2'"*%&).?"'+'"?'."
5.<*&%"?+&"'?"99(<1+'(B."6*%&.%'"*9"?'."*"?'<]&]"*%".%@+@."(%"?'."&.4)+,"+6'(B('2a"

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\$"I(,"%*"N."+"B+(7".46)&."*%+,,.@.",+6Y"*9"+99(<1+'(B."6*%&.%'"?'+"'"?'<.&5*%7.%'"N.,(B.7"?'+"'
'?'."6*15,(%+%'"6*%&.%'.7"*"'"?'&.4)+,"+6'(B('2")%7.<.(?'<*"9"?'."9*,*%I(%@"6(<6)1&'+%6.&V"\+]
>?<.&5*%7.%'"A"N.,(.9"(%"+99(<1+'(B."6*%&.%'"<*&."9<*1"?'."(%'*4(6+'(%%"*%<6Y,.&&%.&&"*9"?'."
<.&5*%7.%'/"*%<N]"'"?'<.&5*%7.%'"7(7"*"'+Y.<.&+*%+N,."&'.5&/"(%"?'."6(<6)1&'+%6.&Y%*%I%"*"'?'."
<.&5*%7.%'"+"'"?'."(1./'"*%&6.<'+(%I?'?'<"'?"6*15,(%+%'"99(<1+'(B.,2"6*%&.%'.7a"

>?."9*,*%I(%@"<."&&.%'(+,".,.1.%'"*9"+99(<1+'(B."6*%&.%'V"

f "H,,"

+6'(B."<.&5*%&.a"H%(%7(B(7)+,"I?*"7*.&"%*"5?2&(6+,2"<.&(&"*<"B.<N+,2"<.9)&."&.4)+,
+6'(B('2'(&"%*"6*%&.6.&&+<(,2"@B(%@"6*%&.%'a'C..2(%@"&*,.,2")5*%*%*:B.<N+,"6* 1 1)%(6+'(%%
6+%",.+7"'*"+9+,&."6*%6,)&(*%"+&"* I ? . ' ? . < " 6 * % & . % " I + & " & *) @ ? " * < " @ (B . % a "

f _____ "H99(<1+'(B."6*%&.%" 1)&'N."*%*%*(%@"?<*)@?*"')"'?'+6'(B('2a"0*%&.%" 1 +2"
N."I('?'7<+I%"N2"+%2'5+<'2'+"+%2"(1.a'C.6*%@(d(%@"'?'."72%+1(6%"+')<."*9&.4)+,+6'(B('2/"
(%7(B(7)+,&"6?*"*&(%@"'%" .%@+@."(%"&.4)+,+6'(B('2" 1)&'".B+,)'."6*%&.%'(%@"+%*" *%*%*(%@"
1+%%.<"+%7"6* 1 1)%(6+'."6,.,+<,2"'?<*)@?*"')"+,,"&'+@.&"*9"&.4)+,+6'(B('2a" c ('?'7<+I+,"*9"
6*%&.%" 6+% N . " + B . < N + , 2 " . 4 5 < . & & . 7 " _ % * % ^ * < " _ & ' * 5 ^ " * < " 6 + % " N . " N + & . 7 " * % " + % " *) ' I + < 7 "
7 . 1 * % & ' < + ' (* % " ' ? + " 6 * % B . 2 & " ' ? + " + % " (% 7 (B (7) + , " (& " ? . & (' + % ' / " 6 * % 9) & . 7 / ") % 6 . < + (% " / " * < " (& " % * "
, * % @ . < + " 1) ') + , 5 + < ' (6 (5 + % ' a " U % 6 . " 6 * % & . % " (& " I (' ? 7 < + I % " ' ? . " & . 4) + , + 6 ' (B (' 2 " 1) & " " 6 . + & . "
(1 1 . 7 (+ . , 2 " + % 7 " + , , 5 + < ' (. & " 1) & " * N + (% " 1) ') + , 2 " . 4 5 < . & & . 7 " * < " 6 , . + < , 2 " & ' + . 7 " 6 * % & . % "
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f _____ "O*%&.%" ' * " * % . " 9 * < 1 " * 9 " & . 4) + , " 6 * % ' + 6 " 7 * . & " % * " 6 * % & (') ' . " 6 * % & . % " ' * " + , , "
9 * < 1 & " * 9 " & . 4) + , " 6 * % ' + 6 " / " % * < " 7 * . & " 6 * % & . % " ' * " & . 4) + , + 6 ' (B (' 2 " I (' ? " * % . " 5 . < & * % " 6 * % & (') ' . "
6 * % & . % " ' * " + 6 ' (B (' 2 " I (' ? " + % 2 " * ' ? . < " 5 . < & * % a " 3 + 6 ? " 5 + < ' (6 (5 + % " (% " + & . 4) + , . % 6 *) % ' . < " 1) & " "
6 * % & . % " ' * " . + 6 ? " 9 * < 1 " * 9 " & . 4) + , " 6 * % ' + 6 " I (' ? " . + 6 ? " 5 + < ' (6 (5 + % ' a " 3 B . % " (% " ' ? . " 6 * % " . 4 " * 9 " + "
6) < < . % " * < " 5 < . B (*) & " (% ' (1 + ' . < . , + ' (* % & ? (5 " . + 6 ? " 5 + < ' 2 " 1) & " 6 * % & . % " ' * " . + 6 ? " (% & ' + % 6 . " * 9 " & . 4) + , "
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* 9 " + % 2 " 9 * < 6 . " ' ? < . + " * 9 " 9 * < 6 . / " (% ' (1 (7 + ' (* % / " * < " 6 * . < 6 (* % i " I ? . ' ? . < " ? . " 6 * 1 5 , + (% + % " ' ? + 7 " ' ? . " 6 + 5 + 6 (' 2 "
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>? ."J'+."*9"0+, (9*%<(+6*%&(7.<&"&.4)+, (%'.<6*)<&."I('?'+"1 (%*%<"+5.<&*%)%7.<?"?."@."*9"!P]"*"
N."%) , + I 9) , a " H " 5 . < & * % " I ? * " . % @ + @ . & " (%) % , + I 9) , " & . 4) + , " (% ' . < 6 *) < & . " I (' ? + " 1 (% * < " 7 * . & " & * " I (' ? *) "
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_L* < 6 . ` (&"' ? .) & . " * < " ? < . + " * 9 " 5 ? 2 & (6 + , " B (* , . % 6 . " * " * B . < 6 * 1 . " + % " (% 7 (B (7) + , A & " 9 < . 7 * 1 " * 9 " I (, " ' * "
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9 * < 6 . " (& " % * " B + , (7 a " L * < " ' ? . ") & . " * 9 " 9 * < 6 . " ' * " N . " 7 . 1 * % & ' < + ' . 7 / " ' ? . < . " (& " % * " < . X) (< . 1 . % " ' ? + " + "
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_ \$ % ' (1 (7 + ' (* % ` (&"' ? .) & . " * 9 " (1 5 , (. 7 " ' ? < . + " * " * B . < 6 * 1 . " + % " (% 7 (B (7) + , A & " 9 < . 7 * 1 " * 9 " I (, " ' * " 6 ? * * & . "
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0* .<6(*%6+%("%6,)7. "+ I(7. "<+%@. "*9"N. ?+B(*<&/"(6,)7(%@"(1(7+'(*%/" 1+%5), +'(*%/"?'<.+ '&"/+7" N,+6Y 1+(,a"H"5.<&*%A& I *<7&"*<"6*%7)6""+<." &)99(6(. %"' '*6*%&'(')'. "6* .<6(*%("9"'?. 2" I<*%@9),,2" (15+(<+%*'?'<("%7(B(7)+,A&"9<. .7* 1 "*9" I(, "+%7"+N,('2""6?*"&. " I ? . '?<*"<"%""*"' .%@+@. ("%&. 4)+, "+6'(B('2a"34+ 15, .&"*9"6* .<6(*%("%6,)7. ""?<.+'. %(%@"' *_)'`&* 1 . *% . "N+&. 7"*% "&. 4)+, "*<(.%'+('*%/" @.%7.<(7.%('2"/" *<@"%7.<. 45<.&&(*%"+%7""?<.+'. %(@"'*"?+< 1 "%% .&.,9"(9"'?. "*'?.<5+<2"7* .&"%*" .%@+@. ("%""?."&. 4)+, "+6'(B('2a" c ? .%&* 1 . *% . ("%7(6+' .&/"B.<N+,2"*<5?2&(6+,2"/'?'+'?' .2"7*"%*" I+%""*".%@+@. ("%"+5+<(6),+<"&. 4)+, "+6'(B('2"/'?'+'?' .2" I+%""* '&'*5+"5+<(6),+<+6'(B('2"/" *<"?'+' '?' .2"7*"%*" I+%""* "@*5+&"+"6.<'+(%"5*(%""*9"&. 4)+, "(%'.<+6'(*%/"6*%'(%). 7"+6'(B('2"*<5<.&&<." '*6*%'(%). "N.2*%7""?'+"5*(%""6+%N. "6* .<6(B.a">?. "0* , , .@. " I(, ".B+,)+. "'?. "9* , , * I(@("%7.'. <1(%(@ I?. '?.<6* .<6(*% I +&"

I ? . < . " ? . " < . &5*%7. % 'A&" * I % " (%6+5+6('+'(%*" \9<* 1 " +,6*?*, " * < " 7<) @&] " 6+) & . 7 " ' ? . " < . &5*%7. % " ' * " 1 (&b) 7 @ . " ' ? . " 6 * 1 5 , + (% + % ' A & " (% 6 + 5 + 6 (' 2 a " \$ " " (& " ' ? . " < . &5*%&(N(, (' 2 " * 9 " . + 6 ? " 5 + < ' 2 " ' * " N . " + I + < . " * 9 " ' ? . " (% * 4 (6 + ' (% * % , . B . , " * 9 " ' ? . " * " ? . < ' 5 + < ' 2 " N . 9 * < . " % @ + @ (% @ " (% & . 4) + , " + 6 ' (B ' 2 a " \$ % " @ . % . < + , / " & . 4) + , " + 6 ' (B ' 2 " I ? (, .) % 7 . < " ' ? . " (% 9 ,) . % 6 . " * 9 " + , 6 * ? * , " * < " * " ? . < " 7 <) @ & ' 5 * & . & " + < (& Y " " * + , " 5 + < (. & a " \$ 9 " ' ? . < . " (& " + % 2 " 7 *) N " + & " ' * " ' ? . " , . B . , " * < . 4 ' . % " " * 9 " ' ? . " * " ? . < " (% 7 (B (7) + , A & " (% * 4 (6 + ' (% * % / " (" (& " & + 9 . & " " * 9 * < @ " * * < " 6 . + & . " + % 2 " & . 4) + , " 6 * % ' + 6 " * < " + 6 ' (B ' 2 a " Z . (% @ " (% * 4 (6 + ' . 7 " N 2 " 7 <) @ & " * < " + , 6 * ? * , " (& " % * 7 . 9 . % & . " " * + % 2 " B (* , + ' (% * " * 9 " ' ? (& " G * , (6 2 " + % 7 " 7 * . & " % * " 7 (1 (% (& ? " * % . A & " < . & 5 * % & (N (, (' 2 " " * " N " + (% 6 * % & . % ' a ")

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&*N2"&5.+Y(%@"I('?"5<*9.&&(*%+,&"I?*"?"B."+",.@+,,2"5<*'.6'.7"6*%9(7.%'+,('2a">?.6*%9(7.%'+,"
<.&*)<6.&" +B+(,+N,." '*"(7(B(7)+,&" *% "6+15)&" +<." ,(&'.7" N.,*Ia" 8*'./" ?*I.B.</" '?+" "'?&." 6*%9(7.%'+,"<.&*)<6.&"<."X)<."7"N2"&'+'.",+I""*%*(92"6?(,7"5<*'.6'(B."&.<B(6.&'+%7g*,<,"*6+,"+I"
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H, " ? (@ ? .<" .7)6+'(*%"(%&'(') '(*%&" ' ? + " ? +<. 6. (B. "9. 7. <+, "9) %7(%@"(%6,)7(%@"' ? . "0* ,. @ . /"+<. *N, (@+ ' .7" '*"(&&) . "5)N, (6,2"+% "H%)+, " J. 6)<'2" C. 5* < "" _HJC`]" I ?(6?"(7. % '(9(&"' ? . "%) 1 N. <"9" 5+<(6), +<" <. 5* < ".7"6<(1 .&"%*"6+15)&"* < "6+15)&"5* < 5. <'2"/" * < "+7b+6. ""' *6+15)&a">? . "HJC"7* .&"%*" (%6,)7. " (7. % '(92(%@"(%9* < 1+'(*%" +N*) ""' ? . "6* 1 5,+(%+% ""* < "&5*%7. % 'a"

H, " ? (@ ? .<" .7)6+'(*%"(%&'(') '(*%&" ' ? + " ? +B. " 6+15)&"5* , (6. "9* < 6. &" * < "& . 6)<'2" 7. 5+<'1 . % '&" 1)&" 1 +(%'+(%+"7+(,2"6<(1 . , * @ " ' ? + " (%6,)7. & . % '< (&"9* < "+, "6<(1 .&"' ? + " *66)<" I (' ? (%N* ? " ' ? . "0, .<2" @ . * @ < +5?2" +%7" ' ? . "6+15)&"&+9. '2"9* < 6. A&" < . @ , +<"5+< * , < *) . 'a">? . "6<(1 . , * @ " 7* .&"%*" (%6,)7. " (7. % '(92(%@"(%9* < 1+'(*%" +N*) ""' ? . "6* 1 5,+(%+% ""* < "&5*%7. % 'a"

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>? . "0* ,. @ . "&" < % @ , 2" . %6*)<+@ . &"+, "(%7(B(7)+, &" * "& . . Y"+&&(&' +%6. "9* < 1 "+ 1 . 7(6+, "5* < B(7. <"+%7g* < " ,+I" . %9* < 6. 1 . % "(1 1 . 7(+ ' . ,2"+9' . <"+% "(%6(7. % ""*9&. 4)+, "B(*, . %6. a">? (&"&" ? . "N. &" *5' (*% "" * . %&)< . " 5< . & . < B+' (*% " *9" . B(7. %6. "+%7" * "N. @ ("+" "(1 .,2" (%B. &' (@+' (B. "+%7" < . 1 . 7(+, "<. &5*%&. a">? . "0* ,. @ . " +, &* " &' < % @ , 2" . %6*)<+@ . &"+, "(%7(B(7)+, &" * " 1+Y. " +<. 5* < "" * " ' ? . "0* ,. @ . " +%7" * " , *6+, " +I" . %9* < 6. 1 . % "/"+, ' ? *) @ ? % . (' ? .<" (&" < . X) (<. 7a">? . & . "<. 5* < "(%@" *5' (*%&"+<. "% * " 1)')+, ,2" . 46.)&(B. a" Z* ? "(%'. <"+, "+%7"6<(1 (%+, "<. 5* < "&" 1+2"N. " 1+7. "&(1) , '+% . *)&, 2a">? . "0* ,. @ . " ? +&"+&' < % @ "(%'. < . &" (%' &)55* < "(%@" ' ? * & . " I ? * " ? +B. " . 45. < (%6. 7" &. 4)+, " ? +& && 1 . % '/' &. 4)+, " B(*, . %6. /" &' +, Y(%@" /" +%7" (%' (1+' . 5+<' % . <"B(*, . %6. "+%7"&' < % @ , 2" . %6*)<+@ . &"+, "(%7(B(7)+, &" * < "" ? (<7:5+<'2" I ('% . && . &" * " <. 5* < "" +%2"(%6(7. % "" * ""' ? . "0* ,. @ . a"

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H%2". 15,*2.. "1+2"5)<&)."+"%2"6?+<@."*9"7(&6<(1 (%+'(*%"*<?"?+<+&& 1 .%"'" I('?'?'."0+,(9*<%(+" ; .5+<1 .%"'"*9"L+(<"3 15,*2 1 .%"'"+"%7"O*)&(%@"\ ; L3O`J]"*<""?'."9.7.<+,"3X)+,"U55*<')%('2" 3 15,*2 1 .%"'"0* 1 1 (&&(*%"_33U0`j)a"\$"("&)"% ,+I9),""*"<.'+(+.'."+@+(%&"+"%2". 15,*2.. "9*<*55*&(%@"'?'."5<+6'(6.&"5<*?N(' .7"N2"'?'."0+,(9*<%(+"L+(<"3 15,*2 1 .%"'"+"%7"O*)&(%@"H6""*<6* 15+<+N,."9.7.<+,"+I"*<9*<9(, (%@"+"6* 15,(+"'" I('?'/*<9*<""*?'<. I(&."5+<'(6(5+'(%@"(%+"% (%B.&'(@+'(*%/"5<*6..7(%@"/*<""?."+<(%@"6*%7)6'.7"N2"'?'." ; L3O"*<"33U0a"

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('&'<.6)<<.%6."/"+%7" +77.&&" ('&' .99.6'&/' N)'" ('&' +N,('2" '*"' +Y." 7(&6(5,(%+<2" +6'(*%"+@+(%&' "'?'."
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N.&"(%'<.&"*9"?'(&"6* 1 1)('2"?'+"&" 1+2"6* 15,+(%+% '&'+&"5* &&(N,."6?*"&."*"<.5* <'**"6*,,.@."
*99(6(+,&" +%7"?'+"5+<'(6(5+% '&'(%"?'."@<(.B+%6."5<*6.&&"+<.9* <'?<(@?"'(% '&'<+<(%@"(%9* < 1+'(*%a">*"
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- f 0?+%@."(%*%:6+15)&"?*)&(%@/" I ?.%'9.+&(N,./"*<+<<+%@(%@"*7(&&*,B."+"?*)&(%@"6*%'<+6'" +%7"5<*:<+('%@"+"<.9)%7"(%"+66*7+%6." I ('?6+15)&"?*)&(%@"5*,(6(.&i"
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- f - *,)'<2",.+B."*9"+N&.%6.i"
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- f H%2"*'?.<<. 1.72"'?+"6+%N."'+(*<.7""*"?."(%B*,B.7"(%7(B(7)+,&""*<.+&*%+N,2"+6? (.B."?." @*+,&"*9"?'(&"G*,(62a"

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7(&6< . ' (*%/"&) & 5. % 7"+% (" % B . & ' (@ + ' (* % " 5<*6. 7)< . ") % 7 . < " ? (&" G * , (62" 9* < " ? . " 7) < + ' (* % " * 9" &) 6 ? " @ < (. B + % 6 . "
5<*6. 7)< . / " ' * " + B * (7 " ' ? . " 5* & & (N (, (' 2 " * 9" 6*%6) << . % " " (% B . & ' (@ + ' (* % & " + % 7 " 6*%9, (6' (% @ " 9(% 7 (% @ & " I (' ? "
< . & 5. 6' " * " ' ? . " . 15, *2 . . A & " 6* 15, + (% ' a "\$9" + "<. 5<. & . % ' . 7. " 15, *2 . . A & " 6* 15, + (% " (& "< . & * , B. 7 " ' ? < *) @ ? "
' ? . " + 55, (6+N, . "@<(. B+%6 . " 5<*6. 7)< . / " ? . " 0(B, " C (@ ? ' & " + % 7 "> (' , . "\$E" U99 (6 . " 1 + 2 "< . X) . & " " ? + " " ? . ") (% % "
< . 5<. & . % ' + (B. " ' < + % & 9 . < + , , " % 9 * < 1 + ' (* % " @ + ' ? . < . 7 " + % 7 "< . , + ' . 7 " 9 (% 7 (% @ & " ' * " ? . " 0(B, " C (@ ? ' & " + % 7 "> (' , . "
\$E" U99 (6 . " * " 7 . ' . < 1 (% . " I ? . ' ? . < " 9) < ? . < " (% B . & ' (@ + ' (* % " (& % . 6 . & & + < 2 ") % 7 . < " ? (&" G * , (62a"

> ? . "& ' + % 7 + < 7 " 9 * < " 7 . ' . < 1 (% (% @ " I ? . ' ? . < " ? . " < . & 5 * % 7 . % " (& "< . & 5 * % & (N, . " 9 * < + " 5 * , (62" B (* , + ' (* % " (& " ? . "
5< . 5 * % 7 . < + % 6 . " * 9 " ? . " . B (7 . % 6 . "& ' + % 7 + < 7 " (a . a / " I ? . ' ? . < " (" (& " 1 * < . " , (Y . , 2 " ? + % % * " " ? + " " + B (* , + ' (* % " * 9 "
0 * , , @ . " 5 * , (62" * 66) << . 7a"

H%2" (% 7(B(7)+, " 6+<<2(%@" *) " " ? . & . " 5<*6. 7)<. & " 1) & " N . " 9< . . " 9<* 1 " + % 2 " + 6') + , " 6*%9, (6' " * 9" (% ' . < . & " * < "
N(+&" ? + " I *) , 7" (15+6' "" ? . " ? + % 7, (% @ " * 9 " " ? (& " 1 + ' ' . < a " J ? *) , 7 " " ? . " 0(B, " C (@ ? ' & " D "> (' , . "\$E" 0 * * < 7 (% + ' * < "
' ? + B . " + " 6*%9, (6' " * 9" (% ' . < . & "/" ' ? . " 0(B, " C (@ ? ' & " D "> (' , . "\$E" 0 * * < 7 (% + ' * < " (& " * " (1 1 . 7 (+ . , 2 " % * ' (92" " ? . "
G< . & (7 . % " * 9 " " ? . " 0 * , , @ . / " I ? * " I (, , + 55 * (% " + " 0 * , , @ . " + 7 1 (% (& ' < + ' * < " * " & . < B . " + & " H 6' (% @ " 0(B, " C (@ ? ' & "
D "> (' , . "\$E" 0 * * < 7 (% + ' * < 9 * < " ' ? . " 1 + ' ' . < + " " (& &) . a "> * " < + (& . " + % 2 " 6*%6 . < % " (% B * , B (% @ " N (+ & / " 6*%9, (6' " * 9 "
(% ' . < . & "/" * < " 7 (& 6 < (1 (% + ' (* % " N 2 " " ? . " 0(B, " C (@ ? ' & " D "> (' , . "\$E" 0 * * < 7 (% + ' * < / "

>?."

c ? . < . " ? . < . (& . B(7 . %6 . " *9 + " 5 + ' . < % " *9 " 6 * %7) 6 " & (1 (, + < (% " % + ') < . " N2 " ? . " < . & 5 * %7 . % ' / . (' ? . < * 5 < (* < / " * < " &) N & . X) . % ' / " * " ? . " 6 * %7) 6 " (% X) . & ' (* % / " ? (& " (% 9 * < 1 + ' (* % " 1 + 2 " N . " 7 . . 1 . 7 " < . . B + % " + % 7 " 5 < * N + ' (B . " * " ? . " 7 . 6 (& (* % : 1 + Y . < A & " 7 . ' . < 1 (% + ' (* % " * 9 < . & 5 * % & (N (, ' 2 / " + % 7 g * < " ? . " 7 . ' . < 1 (% + ' (* % " * 9 & + % 6 ' (* % a) > ? . " 0 (B (, " C (@ ? ' & " D " > (' , . " \$ E " 0 * * < 7 (% + ' * < " I (, , " 1 + Y . " + " 7 . ' . < 1 (% + ' (* % " * 9 < . . B + % 6 . " N + & . 7 " * % " + % " + & & . & & 1 . % " " * 9 " I ? . ' ? . < " ? . " 5 < . B (*) & " (% 6 (7 . % " I + & " &) N & ' + % ' (+ , , 2 " & (1 (, + < " * " ? . " 6 * %7) 6 " 6 (' . 7 " (% " ? . " < . 5 * < " + % 7 " (% 7 (6 + ' . & " + " 5 + ' . < % " * 9 " N . ? + B (* < " + % 7 " ? . " 0 * , . @ . / " ? < *) @ ? " ? . " 0 (B (, " C (@ ? ' & " D " > (' , . " \$ E " 0 * * < 7 (% + ' * < / " 1 + 2 " 6 ? * * & . " " * " 5 < * B (7 . " ? (& " (% 9 * < 1 + ' (* % " * " ? . " \$ B . & ' (@ + ' * < " * < " O . + < (% @ " U99 (6 . < / " I (' ? " + 5 5 < * 5 < (+ ' . % * ' (6 . " * " ? . " 5 + < (. & a " > ? . " 0 (B (, " C (@ ? ' & " D " > (' , . " \$ E " 0 * * < 7 (% + ' * < " I (, , + 6 6 . & & " ? . " < . . B + % 6 . " * 9 " ? (& " (% 9 * < 1 + ' (* % " + % 7 " 7 . ' . < 1 (% . " (9 " (" & " + 5 5 < * 5 < (+ ' . 9 * < " (% 6 ,) & (* % " (% " ? . " (% B . & ' (@ + ' (* % " < . 5 * < a ")

> ? < *) @ ? *) " + % 2 " (% B . & ' (@ + ' (* % " * < . & * ,) ' (* % / " . + 6 ? " 5 + < ' 2 " ? + & " ? . " < (@ ? " " * " 6 * % &) , " I (' ? " + % + 7 B (& * < " * 9 " ? . (< " 6 ? * * & (% @ a) > ? . " + 7 B (& * < " 1 + 2 " N . " + % 2 " 5 . < & * % / " (% 6 ,) 7 (% @ " + % " + ' * < % . 2 a " > ? . " 5 + < (. & " 1 + 2 " N . " + 6 6 * 1 5 + (. 7 " N2 " ? . (< . & 5 . 6 ' (B . " + 7 B (& * < " + " + % 2 " 1 . . ' (% @ " * < 5 < * 6 . . 7 (% @ " < . , + ' . 7 " * " ? . " (% B . & ' (@ + ' (* % " * < . & * ,) ' (* % " * 9 + " < . 5 * < ") % 7 . < " ? (& " G * , (6 2 a " c ? , (. " ? . " + 7 B (& * < " 1 + 2 " 5 < * B (7 . &) 5 5 * < " + % 7 " + 7 B (6 . " * " ? . " 5 + < (. & " + " + % 2 " 1 . . ' (% @ " + % 7 g * < 5 < * 6 . . 7 (% @ " / " ? . " (% & ' (') ' (* % " 1 + 2 " . & ' + N , (& ? " < . & ' < (6 ' (* % & " < . @ + < 7 (% @ " ? . " . 4 ' . % " " * " I ? (6 ? " ? . " + 7 B (& * < " 1 + 2 " 5 + < ' (6 5 + ' . " (% " ? . " 5 < * 6 . . 7 (% @ & a " H7B (& * < & " 1 + 2 " % * " & 5 . + Y " * % " N . ? + , 9 " * 9 " ? . " 5 + < (. & " * < " * ? . < I (& . " 5 + < ' (6 5 + ' . " (% / " * < (% " + % 2 " 1 + % % . < 7 . , + 2 " / 7 (& <) 5 " / " * < (% ' . < 9 . < . " I (' ? " 1 . . ' (% @ & " + % 7 g * < 5 < * 6 . . 7 (% @ & " / " I (' ? " ? . " 4 6 . 5 ' (* % " ? + " + " 5 + < ' 2 a & " + 7 B (& * < " 5 + < ' (6 5 + ' (% @ " (% " + " ? . + < (% @ ") % 7 . < " H55 . % 7 (4 " H " I (, " + & Y " X) . & ' (* % & " * 9 " ? . " * " ? . < 5 + < ' 2 + % 7 " I (' % . & & . & a ^ . % . < + , , 2 " / " ? . " 0 (B (, " C (@ ? ' & " D " > (' , . " \$ E " U99 (6 . + % 7 " \$ B . & ' (@ + ' * < " I (, , 6 * 1 1) % (6 + ' . 7 (< . 6 ' , 2 " I (' ? " ? . " 6 * 1 5 , + (% + % " * < < . & 5 * % 7 . % ' a " H " + 7 B (& * < & ? *) , 7 " 5 , + % " * " 1 + Y . " ? . 1 & . , B . & < . + & * % + N , 2 " + B (, + N , . / " + % 7 " ? . " 0 * , . @ . " I (, , % * ") % 7) , 2 " 7 . , + 2 " ? . " & 6 ? . 7) , (% @ " * 9 " 1 . . ' (% @ & " * < 5 < * 6 . . 7 (% @ & " N + & . 7 " * % " ? . " + 7 B (& * < A & ") % + B (, + N (, ' 2 a ")

\$9 " + % " + 7 B (& * < " 9 + (, & " * " 6 * 1 5 , 2 " I (' ? " ? . " 5 < * 6 . 7) < . & & . " 9 * < ' ? " ? . < . (% / " ? . " 0 * , . @ . " < . & . < B . & " ? . " < (@ ? " " * " . 4 6 ,) 7 . " ? . " + 7 B (& * < " 9 < * 1 " 9) < ' ? . < 5 + < ' (6 5 + ' (* % " (% " ? . " 5 < * 6 . & & a " \$9 " + 5 + < ' (6 5 + < " 9 + (, & " * " 6 * 1 5 , 2 " I (' ? " ? . " 5 < * 6 . 7) < . & & . " 9 * < ' ? " ? . < . (% / " ? . " 0 * , . @ . " < . & . < B . & " ? . " < (@ ? " " * " N (% @ " + 7 7 (' (* % + , " 6 ? + < @ . & " * 9 " 1 (& 6 * % 7) 6 " + @ + (% & " " ? . " 5 + < ' (6 5 + % ' a " > ? . " 0 (B (, " C (@ ? ' & " D " > (' , . " \$ E " 0 * * < 7 (% + ' * < " (& < . & 5 * % & (N , . 9 * < (% ' . < 5 < . ' (% @ " + % 7 " + 5 5 , 2 (% @ " ?) (& " 5 < * B (& (* % a ")

> ? . & . " 5 < * 6 . 7) < . & " + < . . % ' (< . , 2 " + 7 1 (% (& ' < + ' (B . " (% " % + ') < . " + % 7 " + < . % * " 6 * % & (7 . < 7 " , . @ + , " 5 < * 6 . . 7 (% @ & " / " N) " < + ' ? . < 5 < * 6 . 7) < . & " 7 . & (@ % . 7 " * " + 7 7 < . & & " 5 * , (6 2 " B (* , + ' (* % & a " 8 * " 5 + < ' 2 " 1 + 2 " +) 7 (* " * < " B (7 . * " < . 6 * < 7 " ? . " 5 < * 6 . . 7 (% @ & a " H7B (& * < & " 1 + 2 " % * " & 5 . + Y " 9 * < / " * < " * % " N . ? + , 9 " * 9 " 5 + < (. & / " I (' ? " ? . " 4 6 . 5 ' (* % " * 9 " + " 5 + < ' 2 a & " + 7 B (& * < " 5 + < ' (6 5 + ' (% @ " (% " + " ? . + < (% @ ") % 7 . < " H55 . % 7 (4 " H " I ? * " I (, " + & Y " X) . & ' (* % & " * 9 " ? . " * " ? . < 5 + < ' 2 " + % 7 " I (' % . & & . & N) " " I (, , % * " " ? . < I (& . " + 6 " * % " N . ? + , 9 " * 9 " + 5 + < ' 2 a ")

> ? . " 0 (B (, " C (@ ? ' & " D " > (' , . " \$ E " 0 * * < 7 (% + ' * < " I (, , < . ' + (% " < . 6 * < 7 & " * 9 " + , , < . 5 * < ' & " + % 7 " 6 * 1 5 , + (% ' & / " < . @ + < 7 , . & & " * 9 " I ? . ' ? . < " ? . " 1 + ' . < (& " < . & * , B . 7 " N2 " 1 . + % & " * 9 " \$9 (' (+ , " H & & . & & 1 . % ' / " H7 + 5 " + N , . " C . & * ,) ' (* % " * < " ; (& 6 (5 , (% + < 2 " C . & * ,) ' (* % a " 0 * 1 5 , + (% ' & " < . & * , B . 7 " N2 " 1 . + % & " * 9 " + % " \$9 (' (+ , " H & & . & & 1 . % " * < " H7 + 5 " + N , . " C . & * ,) ' (* % " + < . " % * " 5 + < " * 9 " + " & ') 7 . % ' A & " 6 * % 7) 6 " 9 (. " * < " + 6 + 7 . 1 (6 " < . 6 * < 7 a " H99 (< 1 + ' (B . " 9 (% 7 (% @ & " * 9 " < . & 5 * % & (N (, ' 2 " (% " 1 + ' . < & " < . & * , B . 7 " ? < *) @ ? " ; (& 6 (5 , (% + < 2 " C . & * ,) ' (* % " < . " 5 + < " * 9 " + " & ') 7 . % ' A & " 6 * % 7) 6 ")

f '?. "7.9(%('(*%*"9"&.4)+,"?+<+&&1 .%")%7.<"S="OLC"!RKaSR\+|j"

f '?. "&6*5. "9"?."0*,,. @.A&".7)6+'(*%"5<*@<+1 "*<"+6'(B('2"+&"7.9(% .7"N2""?. "&+1 .<.@),+ '(*%&i"

f ?* I "'* "6*%7)6'" (%B.&'(@+'(*%&" \%"*"'<.X)(<.7"9* "<?. +<(%@&" * "<+55.+,&" *99(6.<&|/" ? . +<(%@&/" +55.+,&/" +%7"(%9* "<1+, "<.&*,) '(*%"5<*6. &&.&i"

f ?* I "'* "&. <B. "(15+<'(+,,2/"(%6,)7(%@"N2"+B*(7(%@"5<.b)7@1 .%" '*9""?. "9+6'&"+'("&&)./"6*%9,(6'&" *9"(%' .<.&/'/" +%7"N(+&i"+%7"

f (&&).&"*9"<.,.B+%6. "9"X).&'(*%&" +%7" .B(7.%6./" (%6,)7(%@" I?. %"X).&'(*%&" +%7" .B(7.%6. " +N*) ""?. "6*15,+(%+% 'A&"&.4)+,"5<.7(&5*&'(*%*"5<("5<("&.4)+,"N. ?+B(*<"+<."%*" "<.,.B+% 'a"

H%2"(%7(B(7)+," I ?* I (,"N. "6**<7(%+'(%@" +%2"?. +<(%@"(%B*,B(%@">('."\$E"J.4)+,"O+<+&&1 .%" 1)&" +,&*?" +B. ""<+(%(%@"*%" ?* I "'*")&. "+%2".6?%*, *@2""?+" I (,"N. ")&.7"+'"+,(B. "? . +<(%@a"

\$%B.&'(@+'* "&1)&""?+B. ""<+(%@"*%" ?."9*,, * I (%@"5<(*<""*6* 1 1 .%6(%@"+"<*,. "(%"+%2"6+&."(%B*,B(%@" >('."\$E"J.4)+,"O+<+&&1 .%" 'V"

f '?. "7.9(%('(*%*"9"&.4)+,"?+<+&&1 .%")%7.<"S="OLC"!RKaSR\+|j"

f '?. "&6*5. "9"?."0*,,. @.A&"_.7)6+'(*%"5<*@<+1 "*<"+6'(B('2`"+&"7.9(% .7"N2""?. "<.@),+ '(*%&i"

f ?* I "'* "6*%7)6'" (%B.&'(@+'(*%&/" ? . +<(%@&/" +55.+,&/" +%7"(%9* "<1+, "<.&*,) '(*%"5<*6. &&.&i"

f ?* I "'* "&. <B. "(15+<'(+,,2/"(%6,)7(%@"N2"+B*(7(%@"5<.b)7@1 .%" '*9""?. "9+6'&"+'("&&)./"6*%9,(6'&" *9"(%' .<.&/'/" +%7"N(+&i"

f (&&).&"*9"<.,.B+%6.i"+%7"

f ?* I "'* "6<.+.' ."+%(%B.&'(@+'(B. "<.5* "<""?+"9+(<,2"&) 1 1 +<(d.&"<.,.B+% "' .B(7.%6. a"

!

"

>?." \$%B.&'(@+'*<" I(,, " 5<.5+<." +" &) 1 1+<2" *9" .+6?" (%'.<B(. I" _\$\$'<B(. I" J) 1 1+<2`ja" >?."

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"

'* "< . , . B + % " (% 9 * < 1 + ' (* % / " ? . " \$ % B . & ' (@ + ' * < " I (, , . 4 5 , + (% " * " ? . " 5 + < ' 2 " I ? * " 5 < * 5 * & . 7 " ? . " X) . & ' (* % & " + % 2 " 7 . 6 (& (* % " * " . 4 6 ,) 7 . " + " X) . & ' (* % " + & " % * " < . , . B + % ' a " "

W 5 * % "< . 6 . (5 " * 9 " . + 6 ? " 5 + < ' 2 A & " < . & 5 * % & . " * " ? . " . B (7 . % 6 . " < . B (. I . 7 / " ? . " \$ % B . & ' (@ + ' * < " I (, , 7 . ' . < 1 (% . " (9 " + % 2 " + 7 7 (' (* % + , " (% B . & ' (@ + ' (* % " (& " % . . 7 . 7 a " \$ % " + 7 7 (' (* % / " . (' ? . < " 5 + < ' 2 " 1 + 2 " * 9 9 . < " % . I " I (' % . & & . & " * < " * ' ? . < " % . I " . B (7 . % 6 . a " > ? . " \$ % B . & ' (@ + ' * < " I (, , 6 * % & (7 . < " ? . " < . & 5 * % & . & " 5 < * B (7 . 7 " I (, , 5 * & . " X) . & ' (* % & " * " 5 + < (. & " * < " I (' % . & & . & " + & " + 5 5 < * 5 < (+ ' . " \ + " " ? . " 7 (& 6 < . ' (* % " * 9 " ? . " \$ % B . & ' (@ + ' * < / " + % 7 " (% ' . < B (. I " % . I " I (' % . & & . & / " + % 7 " + 6 6 . 5 " % . I / " < . , . B + % ' / " . B (7 . % 6 . a " \$ 9 " % . I " < . , . B + % " . B (7 . % 6 . " (& " 5 < * B (7 . 7 " N 2 " . (' ? . < " 5 + < ' 2 " * < " @ + ' ? . < . 7 " N 2 " ' ? . " \$ % B . & ' (@ + ' * < / " ' ? . " % . I , 2 " @ + ' ? . < . 7 " . B (7 . % 6 . " \ (% 6 ,) 7 (% @ " + % & I . < & " ' * " 6 , + (9 2 (% @ " X) . & ' (* % &] " I (, , N . " 1 + 7 . " + B + (, + N , . " 9 * < " < . B (. I " N 2 " . + 6 ? " 5 + < ' 2 a " 3 + 6 ? " 5 + < ' 2 " I (, , ? + B . " 9 (B . " \ F] " N) & (% . & & " "

- % . " 1Fk

O.+<(%@&" I(, "N."? ., 7"B(+B(7. *6*%9.<. %6(%@a"G<(*<"*"'? ."?. +<(%@/'"? ."O.+<(%@"U99(6.<" I(, "<.6.(B." (%&'<)6'(*%&" <.@+<7(%@" '?." *5.<+(*%" *9" +%2" +)7(*:B(&)+, ".X)(5 1 .%" 9*<" '?." ?.+<(%@a" 3+6?" 5+<'(6(5+% '&'?+, ", &*N. "5<*B(7.7" I('?'(%&'<)6'(*%&"*%?"* I ""*"+66.&&"'? ."?. +<(%@a"3+6?"? ." +<(%@" I(, "

f H%*B.<B(I *9''?. "5<*6.7)<+,"*5'(*%&"+%7"5<*6.&&/'(%6,)7(%@"H7+5'+N,."C.&*,)'(*%"+%7"
;(&6(5,(%+<2"C.&*,)'(*%a"

f 345,+(%''?'+'?'.'&')7.%''?+&"+"<(@?''*'+%" +7B(&*<"*9''?. (<"6?* (6."7)<(%@"''?. "5<*6.&&"+%7"
5<*B(7."+,(&"*9"0*,,@." 15,*2..&"<+(% .7"+&" +7B(&*<&")5*%<.X) .&'a"

f >?. "0*,,@.A&" +,6*?*,"+%7"7<)"@+1% .&'2"5* ,(62a"

f >?. "0*,,@.A&"5* ,(62"5<*?(N('(%@"<. '+,(+'(*%a"

"

0*%6)<<.%',2/'?' 0(B, "C(@?'&"D">(',\$E" 0**<7(%+'*<" I(,,"&.,.6''+'<+ (%.7" (%'.<%+, " *<' .4'.<%+,
\$%B.&'(@+'*<"_%\$B.&'(@+'*<" j" '*6*%7)6''+'<.+&*%+N,./" (15+<'(+,/' +%7"5<* 15''(%B.&'(@+'(*%)*9''?' .
6* 15,+(%''_%\$B.&'(@+'(*%`ja">?. "0(B, "C(@?'&"D">(',\$E" 0**<7(%+'*<" I(,,"&.,.6''+'\$%B.&'(@+'*<"
N+&.7"*%&.&.B.<+,"9+6'*<&/'(%6,)7(%@"''?. "5+<'(.&'(%B*,B.7/'?'."6* 15,.4('2"*9''?'."6* 15,+(%'/''?'."% .7"
'*'+B*(7" +%2" 5*'.%'+, "6*%9,(6" *9" (%'.<.&'/' +%7" I?* 1+2" N.&' 6*%7)6''+' 9+<' +%7" .X)(' +N,."
(%B.&'(@+'(*%)*9*<"+,,"5+<'(.&'(%B*,B.7a">?. "0(B, "C(@?'&"D">(',\$E" 0**<7(%+'*<" I(,,"%*(92"''?' .
5+<'(.&'(% I<'(%@"/*9''?'."%+1."*9''?'."7.&(@%+' .7"\$%B.&'(@+'*<+'''?'."(1."?'."0(B, "C(@?'&"D">(',\$
\$E" 0**<7(%+'*<'(&&).&'?'."%*(6."*9"(%B.&'(@+'(*%a">?. "5+<'(.&' I(,,"?+B."?'<.. \Sj'N)&(% .&&'7+2"*
Nb.6'' '''?'."\$%B.&'(@+'*<A&"&.,.6'(*%)*%''?'."N+&(&"*9"N+&"*<"6*%9,(6" *9" (%'.<.&'a"\$9' .('?'<"*9''?' .
5+<'(.&' *Nb.6'&'/'?'." 0(B, "C(@?'&"D">(',\$E" 0**<7(%+'*<" I(,," B+,)+'. " I?.'?'<"'?'." *Nb.6'(*%)"(&
&)N&'+'(+'.7a">?. "0(B, "C(@?'&"D">(',\$E" 0**<7(%+'*<" I(,,"<. 1 *B." +%7"<.5,+6." +%2"\$%B.&'(@+'*<"
'?'."0(B, "C(@?'&"D">(',\$E" 0**<7(%+'*<"

"

U%6."?'."\$%('(+,"L+6':^+'?.<(%@"(&"6* 15,.'./'?'."0(B("C(@?'&"D">('."\$E"0**<7(%+'*<" I(,"5<*B(7."
'?."\$%'.<B(. I "J

\$%B.&'@+'*<"7.'.<1(%.&""?+'""?. "G<.,(1(%+<2"\$%B.&'@+'(*%"(&"6* 15,.'. /""?. "\$%B.&'@+'*<" I(, "&)N 1("'
'?."\$%B.&'@+'(*%"C.5*<""*""?."

O.<+<(%@U99(6.<" I(,,"6*%7)6'"", (B."?. +<(%@/"+" I?(6?"?. 2" I(,,"5.<1 ("(%7(<.6""6*&&:.4+1 (%+'(%% *9"?'."5+<'(.&"+%7" I('%.&&.&a"L* <"5)<5*&.&"*9"?'(&"G*", (62/"'?'." <1 "\$%7(<.6""0*&&:34+1 (%+'(%% 1 .+%&"?'."O.<+<(%@U99(6.<" I(,,"+,* I"?'."5+<'(.&"+%7g* <"?'.(<+7B(&* <&"*")N1 ("5<*5*&.7"X).&'(%%& 9* <"?'."5+<'(.&"+%7" I('%.&&.&/"&" I .,,"+&"9*,"* I :)5"X).&'(%%&"N+&.7"*%"".&'(1 *%2"5<*B(7.7"7)<(%@ '?. "?. +<(%@a">?. "O.<+<(%@U99(6.<" I(,,"+&Y"?'."5+<'(.&"+%7" I('%.&&.&"?'."5<*5*&.7"X).&'(%%&"?'+"?'." O.<+<(%@U99(6.<"7.' <1 (%.&"+<."6*%&&(&'."% " I('?"'?(&"G*", (62"+%7"+<."5<*N+'(B."*9"9+6'&"<.,. B+% ""' * 9"?'."7b)7(6+'(%%"*9"?'."1 +'" <a">?. "O.<+<(%@U99(6.<"1+2"<.9)&." '*"+,,"* I"X).&'(%%&"?'+"<.")%7),2" ?+<+&&(%@"* <"?'+"&."Y"(%9* <1+'(%%"?'+"(&"%*" <.,. B+% ""')%7.<"?'(&"G*", (62a"

>?. "O.<+<(%@U99(6.<"(&"<. &5*%&&(N,. "9* <"1 +(%+'(%@"+%*" <7.<.2"/9+(</" +%7"<.&5.6'9), "?. +<(%@"+%7"?'&" N<*+7")?'* <("2"'* <.&5*%7"'*7(&<)5'(B."* <?"<+&&(%@N."?+B(* <&/"(%6,)7(%@"+7b*) <(%@"?'."?. +<(%@" * <".46,)7(%@"?'."*99.%7(%@"5.<&*%a" G+'(.&"1+2"1+Y."<.X).&'&"*"'?'."0(B("C(@?'&"D">(',"\$E" 0**<7(%+'* <.<.,+'.7"'*"'?'."9* <1+'* <?"?'."%+)'<."*9"?'.(<5+<'(6(5+'(%%"(%"?'."?. +<(%@a">?. "O(B("C(@?'&" D">(',"\$E"0**<7(%+'* <" I(,,"I * <Y" I('?"'?"O.<+<(%@U99(6.<"*"+66*11 *7+'.'<.+&*%+N,. "<.X).&'&a" H,,"?. +<(%@&" I(,,"*66)<"B(+&"B(7.*6*%9.<.%6(%@a"

>?. "0(B("C(@?'&"D">(',"\$E"0**<7(%+'* <" I(,,"&6?.7), . "+"?. +<(%@"7+'." +%7"('1." +%7"*%'(92"?'." 5+<'(.&"*9"?'."&+1 .a">?. "O.<+<(%@U99(6.<" I(,,"&'<(B."*?"*,"7"?'." +<(%@" I('?(%""."% \!R]N)&(%.&&"7+2&" 9<*1 "<.6.(5""*9"?'."\$%B.&'(@+'(%%"C.5* <"+%7"?'."5+<'(.&"&"<.&5*%&.&/"(9"+%2a"

G<(* <"*"'?'."?. +<(%@/"* </"+"?'." ,+'.&'/'*%""?'."7+2"*9"?'."?. +<(%@/"?'."O.<+<(%@U99(6.<"* <"+7.&(@+ '.7" O.<+<(%@"0**<7(%+'* <" I(,,"6*%7)6'" +5<.:? . +<(%@"1 . . '(%" I('?"'?"5+<'(.&"5<(* <"*6*11 .%6(%@"?'." ? . +<(%@a"H"?'(&"5<.:? . +<(%@"1 . . '(%" /" .+6?"5+<'2" I(,,"<.6.(B."+" .45,+%+'(%%"*9"?'."?. +<(%@"5<*6.&& +%7"?'+B."?'."*55* <')%('2"'*"+&Y"+%2"X).&'(%%&a"\$9"?'."6*15,+(%+"+" +%7g* <.&5*%7."%"?'+B." . . .6'.7" '*"'?+B." +7B(&* <&"?'<*)@?'*)"'?'."?. +<(%@"5<*6.&&/"?'." +7B(&* <"(&" .%6*) <+@.7" '*"+66*15+%2"?'." 6*15,+(%+"%g<.&5*%7.%""*"'?(&"1 . . '(%"@a"

>?. "6*15,+(%+"%"/" <.&5*%7.%"/" +%7"?'." O.<+<(%@U99(6.<" +,,"?+B."?'." <(@?' "'*6+," I('%.&&.&a" c ('%.&&.&"1)&'?"?+B."*N&<B.7"?'."6*%7)6'"(%"X).&'(%%"* <?"?+B."(%9* <1+'(%%"<.,. B+% ""' * 9"?'."(%6(7.%" +%7"6+%%"* "N."6+,,.7"&*, .,2""* &5.+Y"+N*)"'+"(%7(B(7)+,A&"6?+<+6'.<a"\$%"@.%.<+,"/%"*5+<'2" I(,,"N." 5.<1 ("'.7"'*6+,,+&"+" I('%.&&"+%2*%." I?'* I +&"%*" (%'<B(. I.7"N2"?'."\$%B.&'(@+'* <"+&"5+<"*9"?'." 0*,,@.A&'(%B.&'(@+'(%%a"

>?. "O.+<(%@"U99(6.<" I(,,"7.'.<1(%."(9"'?. "5<*99.<.7" I('%.&&\.&]" ?+&"<.,.B+%'"(%9*<1+'(*%"+%7"(9
'?.<." (&" &)"99(6(.%" b)&'(9(6+'(*%" 9*<" 5.<1('(%@" + " I('%.&&" I ?*" I+&" %*" (%'.<B(. I .7" N2" '?. "
\$%B.&'(@+'*<a" >?. " O.+<(%@" U99(6.<" 1+2" +,&* " <.X)(<." '?. " \$%B.&'(@+'*<" '*"' (%'.<B(. I " '?. " % . I ,2"
5<*99.<.7" I('%.&&" c ?." %" I('%.&&.&"+<." +55<*B.7"'* "N." 5<.&.%/"'?'." <.&5*%7.%'" +%7"6* 15,+(%+%'"
I(,,"N." 5<*B(7.7" I('?'+" ,(&"*9" I('%.&&.&"+%7"+%2"<.,.B+%'"7*6) 1 .%'&"<.,+' .7" '*"'?'." I('%.&&.&A"
+55.+<+%6."+'"'?'."?' .+<(%@"%*" ,+' .<"?'+%"'?'<.. \S]N)&(%.&&"7+2&"N.9*<."?'.'?' .+<(%@"

>?. " ? .+<(%@"(&"(%'.%7.7"'* 5<*B(7."+"9+(<"+%7"+ 15,."*55*<')%('2"9*<".+6?"&(7." '*" 5<.&.%"'?' .(<"
+66*)%""*9"'?' .(%6(7.%'" +%7"9*<"'?' ."O.+<(%@"U99(6.<"*7.'.<1(%."?' ."9+6"&"*9"'?' .6+&." +%7" 1+Y." +

**K??\$, @'>!9)!C':%'?'', +./!G\$:87-&'8, !8#!+!Q.'\$(+, %\$!8#!A8, B5'&7\$!; I!
P':%8, @ - %&!KE+', :&!K@=' , ':&**

>?. " 0(B(," C(@?'&" D" >('," \$E" 0**<7(%+'*<" I(," 5<*B(7." '?'." 6* 1 5,+(%+% "'+%7"'?'." <.&5*%7.% "' I('?' %*'(6." *9"+%2"7.,+2&"+%7"@B." "'?. 1 "+%". I"(1.'+N,." 9* <6* 1 5,.'(*%*"9"'?'."(%B.&'(@+'(*%a"

>?. "(%B.&'(@+'(*% I(,"(%6,)7." +%(%'<B(. I \&] I ('?' '?'." 6* 1 5,+(%+% '/' '?'." <.&5*%7.% "'+%7g* <" +%2" *'?'<." 5.<&*% I ?* 1 +2" ?+B." (%9* < 1 +(*% "<.@+<7(%@" '?'." (%6(7.% '/' .+6?"*9" I ?* 1 "(% .%6*) <+@.7" '* 6**5.<+.' " I ('?' +%2"(%B.&'(@+'(*%a">?. "%B.&'(@+'*<" I(," 5<.5+<." +&") 1 1 +<2"*9".+6?"(%'<B(. I /&?+<." '?'." &) 1 1 +<2" I ('?' '?'." (%'<B(. I .. /"+%7"5<*B(7." '?'." (%'<B(. I .. I ('?' +% "55* <')%('2" '* 6* <<.6" '* < 6* 1 1 .% "'*%"+%2"&'+' . 1 .%'& 1 +7." (%"'?'." &) 1 1 +<2a"\$9"%* <.&5*%&." (&"<.6.(B.7"9<* 1 "'?'." (%'<B(. I .. I ('?' (%"'?<.. \S]N)&(% .&&"7+2&"<.9,.6'(%@"+2"+77('(*%&"* <6?+%@.&" I ?(6?"'?'." (%'<B(. I .. "N.,(.B.& +<." % .6. &&+<2/"'?'." (%'<B(. I "&) 1 1 +<2"&?+,,"N."7.. 1 .7" '* "N.")%7(&5)' .7a"\$%"+, "(%&' +%6.&" I ?<." "'?' . "%B.&'(@+'* <" (%6,)7.&"+% "(%'<B(. I "&) 1 1 +<2"+&"+% ".4?(N(" '* "+<.5* </' '?'." "%B.&'(@+'* <" I(," +,&* (%6,)7." +%2" <.&5*%&.a" >?. "%B.&'(@+'* <" 1 +2" +,&* @+'?'<"+%2" <.,.B+% "' 7*6) 1 .% '&"+%7" 6*%7)6" 9* ,,* I :)5" * <<.N)'+, "(%'<B(. I &/' +&" % .6. &&+<2a"'"

>?. " 0(B(," C(@?'&" D" >('," \$E" 0**<7(%+'*<" I(," 5<*B(7." '?'." \$%'<B(. I " J) 1 1 +<(.&"+%7" +%2" 7*6) 1 .%' +<2" .B(7.%6." @+'?'<.7" '* " '?'." 5+<'(.&" 9* <" <.B(. I a" ^ (B.% " '?'." &.%&'(B.% '+')<." *9" '?'." (%9* < 1 +(*% "5<*B(7.7/"'?'." 0(B(," C(@?'&" D" >('," \$E" 0**<7(%+'*<" I(," 5<*B(7." '?'." (%9* < 1 +(*% "(%"+ &.6)<." 1+%%.<" \. a@a/"N2"5<*B(7(%@"7(@('+"6*5(.&"*9"'?'." 1 +'.<(+,&"'?'<*)@?'+"5<*'.6'.7/"_<.+7:*%,2`" I .N" 5* <'+,]a" 8.'?'<" '?'." 6* 1 5,+(%+% "'%* <" '?'." <.&5*%7.% "'* <" '?'." (<" +7B(&* <&/' (%6,)7(%@" N) "'%*" , (1 ('.7" '* "9+1 (2" 1 . 1 N.<&" +%7g* <," .@+," 6*)%&.,] " 1 +2" 6*52/"<. 1 *B./" 5?*" * @+<5?/" 5<(%'/' (1 +@./"

9<* 1 " '?. " \$%B.&'(@+'*%a" U%6." '?. " \$%B.&'(@+'*<" (&" &+'(&9(.7" '?+' " '?. " <.5*<" (&" 6* 15,. ' /" '?. " \$%B.&'(@+'*<" I(,,"&)N1('"'?. "<.5*<'""*"'?. "0(B("C(@?'&"D">(',"\$E"0**<7(%+'*<a">?. "0(B("C(@?'&"D">(',"\$E"0**<7(%+'*<" I(,,"<.B(. I" '?. " <.5*<'"+%7"+&&.&&" I?. '?. "<" '?. " <.5*<'"+%7. 1 *%&'<+' .&/"N2"+ 5<.5*%7.<+%6. "*9"?. " .B(7.%6./"?'+'V"!]"?. " .B(7.%6. "&)55*<'&"?. "\$%B.&'(@+'*<A&"9+6')+,"9(%7(%@&i" +%7" \#]" '?. " \$%B.&'(@+'*<A&" 9+6')+," 9(%7(%@&" &)55*<' "?. " \$%B.&'(@+'*<A&"),'(1+'." 9(%7(%@ " *9" <.&5*%&(N,('2"*<"%*%:<.&5*%&(N,('2a"

>?. " 0(B("C(@?'&" D">(',"\$E"0**<7(%+'*<" 1+2"<.X)(<." '?+' " '?. " \$%B.&'(@+'*<" 6*%7)6"+77('(*%+," (%B.&'(@+'*%/" 6*%&(&' .%'" I('?' '?. " 5<*6.7)<.&*") ,(% .7"+N*B.a"U%6. "'?. " 0(B("C(@?'&"D">(',"\$E"0**<7(%+'*<" ?+&" 6*%9(<1 .7" '?+' " '?. " L(%+," C.5*<" (&" 6* 15,. ' /" '?. " 0(B("C(@?'&" D">(',"\$E"

K??\$, @'>!C)!K@+?&+67\$!G\$:87-&'8, !J.8%\$@ - . \$:!

H7+5'+N, . "<.&*,)'(*%" (&+" B*,)'%'+<2/'<. 1.7(&:N+&.7/'&'<6')<.7" (%'.<+6'(*%" N.' I . . % * < " + 1 * % @ " +99.6'.7"5+<'(.&'?'+"N+,+%6.&)&55* < " + % 7 " + 6 6 *) % ' + N (, (' 2 " I (' ? *) ' ' ' + Y (% @ " 9 * < 1 + , " 7 (& 6 (5 , (% + < 2 " + 6 ' (* % " + @ + (% & " " ? . " < . & 5 * % 7 . % ' a " H 7 + 5 ' + N , . " < . & * ,) ' (* % " (& " @ . % . < + , , 2 " 7 . & (@ % . 7 " ' * " + , , * I " ' ? . " < . & 5 * % 7 . % " ' * " + 6 Y % * I , . 7 @ . " ? + < 1 " + % 7 " + 6 6 . 5 " " < . & 5 * % & (N (, (' 2 " 9 * < " < . 5 + ((% @ " ? + < 1 " \ ' * " ' ? . " . 4 ' . % " 5 * & & (N , .] " . 4 5 . < (. % 6 . 7 " N 2 " " ? . " 6 * 1 5 , + (% + % " + % 7 g * < " ' ? . " 0 * , , . @ . " 6 * 1 1) % (' 2 a " H 7 + 5 ' + N , . " < . & * ,) ' (* % " (& " 7 . & (@ % . 7 " ' * " . , (1 (% + ' . " ? . " G < * ? (N (' . 7 " 0 * % 7) 6 ' / " 5 < . B . % " (' & " < . 6) < < . % 6 . / + % 7 " < . 1 . 7 2 " (' & " . 9 9 . 6 ' & ' (% " + ' 1 + % % . < " ? + " 1 . . ' & " ' ? . " % . . 7 & " * 9 " ' ? . " 6 * 1 5 , + (% + % " I ? (, . 1 + (% ' + (% (% @ " ' ? . " & + 9 . ' 2 " * 9 " ' ? . " 6 + 1 5) & " 6 * 1 1) % (' 2 a " H 7 + 5 ' + N , . " < . & * ,) ' (* % " 1 + 2 " % * " N . ") & . 7 " (% " 6 + & . & " I ? . < . + % " . 1 5 , * 2 . . (& " + , , . @ . 7 " ' * " ? + B . " 6 * 1 1 (' . 7 " > (' . " \$ E " J . 4) + , O + < + & & 1 . % " + @ + (% & " + & ") 7 . % ' a " > ? . " 0 * , , . @ . " I (, , % * " 1 + % 7 + ' . " 1 . 7 (+ ' (* % " ' * " < . & * , B . " + , , . @ + ' (* % & " * 9 " & . 4) + , ? + < + & & 1 . % ' / " + % 7 " I (, , % * " + , , * I " 1 . 7 (+ ' (* % " / . B . % " * % " + " B * ,) % ' + < 2 " N + & (& / " ' * " < . & * , B . " + , , . @ + ' (* % & " * 9 " & . 4) + , " B (* , . % 6 . a "

>? . " 0 (B (" C (@ ? ' & " D " > (' . " \$ E " 0 * * < 7 (% + ' * < < . B (. I & " " ? . " 1 + ' . < " * " ? . " . 4 ' . % " % . 6 . & & + < 2 " * " 6 * % 9 (< 1 " " ? + " (" (& " * 9 " ? . " 2 5 . " ? + " I *) , 7 " N . " + 5 5 < * 5 < (+ ' . 9 * < " + % " + 7 + 5 ' + N , . " < . & * ,) ' (* % " 5 < * 6 . & & " + % 7 " ? + ") & . " * 9 " + % " + 7 + 5 ' + N , . " < . & * ,) ' (* % " 5 < * 6 . & & " I + & " I (' ? *) " 5 < . & & < . " * < " 6 * 1 5) , & (* % " 9 < * 1 " * " ? . < & a " > ? . " + 7 + 5 ' + N , . " < . & * ,) ' (* % " * 5 (* % & " + B + (, + N , .) % 7 . < " ? (& " G * , (6 2 " < . 6 * @ % (d . V "

f >? . " @ * + , " * 9 " + 7 + 5 ' + N , . " < . & * ,) ' (* % " (& " * " + 7 7 < . & & " ? . " G < * ? (N (' . 7 " 0 * % 7) 6 ' / " (7 . % ' (9 2 " I + 2 & " " ? + " (% 7 (B (7) + , & " + % 7 g * < " ? . " 6 * 1 1) % (' 2 " ? + B . " N . . % " ? + < 1 . 7 / " + % 7 " 7 . B . , * 5 " + < . & * ,) ' (* % " + @ < . . 1 . % " ' * " + 7 7 < . & & " ? . " ? + < 1 " + % 7 " 5 < . B . % " 9) ' < . " G < * ? (N (' . 7 " 0 * % 7) 6 i "

f G + < ' (6 (5 + ' (* % " (& " B * ,) % ' + < 2 " + % 7 " N * " ? + " 6 * 1 5 , + (% + % " + % 7 " + < . & 5 * % 7 . % ' / " + & " I . , , " + & " + % 2 " * " ? . < " 5 + < ' (6 (5 + ' (% @ " (% 7 (B (7) + , & / " 1) & " 6 * % & . % " (" I < ((% @ " * " 5 + < ' (6 (5 + ' (* % " (" + 7 + 5 ' + N , . " < . & * ,) ' (* % " i "

f >? . " I < (' . % " 6 * % & . % " " I (, (% 9 * < 1 " " ? . " 6 * 1 5 , + (% + % " + % 7 " ? . " < . & 5 * % 7 . % " " ? + " . (' ? . < " 6 + % " < . X) . & " ' * " . % 7 " + 7 + 5 ' + N , . " < . & * ,) ' (* % " + " + 2 " (1 . " + % 7 " 5) < &) . " 9 * < 1 + , < . & * ,) ' (* % a " c < (' . % " 6 * % & . % " " I (, , + , & * " (% 9 * < 1 " 5 + < (. & " ? + " (% 9 * < 1 + ' (* % " @ + ' ? . < . 7 " + % 7 ") ' (, (d . 7 " (" + 7 + 5 ' + N , . " < . & * ,) ' (* % " N 2 " + % 7 " N . ' I . . % " ' ? . " 5 + < (. & " 6 + % % * " N . ") & . 7 " (" + % 2 " * " ? . < " 0 * , , . @ . " 5 < * 6 . & & / " (% 6 ,) 7 (% @ " 9 * < 1 + , < . & * ,) ' (* % " / " (9 + 7 + 5 ' + N , . " < . & * ,) ' (* % " . % 7 & " + % 7 " 9 * < 1 + , < . & * ,) ' (* % " N . @ (% & " * < < . &) 1 . & i "

f

f G+<'(6(5+% '&' (% " +7+5'+N, . " <.&*,)')(*% " 5<*6.&&.&" 1)&' " N." 5<*'.6'.7" 9<*1 " &.6*%7+<2" B(6'(1(d+'(*% " +%7" *'?'<' 5*'.%'(+, " ?+<1&/' (%6,)7(%@" '?." 5<.&&)<." '* " 5<*6..7" '?<*)@?' +7+5'+N, . "<.&*,)')(*% "(%&' .+7*0"9* <1 +, "<.&*,)')(*%a"

I7,<#,:\$%& ;%/3\$+##31&A<##31/&

>?. "+7+5'+N, . "<.&*,)')(*% "*5'(*%&" I(, "N." %+N, . 7"N2"+<+(% .7"6**<7(%+'*<a">?. "+7+5'+N, . "<.&*,)')(*% " 6**<7(%+'*<" 1)&' "N." (1 5+<'(+, "+%7"9<.. "9<*1 "N(+&"*<"6*%9,(6""9"(%' .&'a"\$9"?' . "+7+5'+N, . "<.&*,)')(*% " 6**<7(%+'*<" ?+&" 6*%6.<%&" '?'+" '? .2" 6+%*%' "9+6,(+'+' . "+9+<"*<")%N(+&.7" 5<*6.&&/' "? . "+7+5'+N, . "<.&*,)')(*% "6**<7(%+'*<" 1)&' "<.5* <'?'*&." 6*%6.<%&" '*"'? ." 0(B, "C(@?'&"D">(', . "\$E"0**<7(%+'*<"+%7" + " 7(99.<.% "' +7+5'+N, . "<.&*,)')(*% " 6**<7(%+'*<" I(, " N." +&&(@% .7a" J(1(+<,2/" + " 6* 15,+(%+%/' + " <.&5*%7.% '/' * <" +%2" *'?'<' 5+<'(6(5+% "' I ?* " ?+&" 6*%6.<%&" '?'+" '?' . "+&&(@% .7" +7+5'+N, . "<.&*,)')(*% " 6**<7(%+'*<" 6+%*%' . %+N, . "+9+<"+%7")%N(+&.7" 5<*6.&&/' 1+2" <.5* <'?'*&." 6*%6.<%&" '*"'? ." 0(B, " C(@?'&"D">(', . "\$E"0**<7(%+'*<" I ?* " I(, "+&&.&&"?' .6<6) 1 &' +%6.&"+%7"7. ' .<1 (% . "I ? . '?'<"+7(99.<.% "' +7+5'+N, . "<.&*,)')(*% "6**<7(%+'*< "&?*) ,7"N." +&&(@% .7"'*"'? . "+7+5'+N, . "<.&*,)')(*% "5<*6.&&a"

\$9"+5+<'2"<.X) .&'&'?' . "(('+'(*% "9"+% "+7+5'+N, . "<.&*,)')(*% "5<*6.&&"+%7"'? ." 0(B, "C(@?'&"D">(', . "\$E" 0**<7(%+'*<" +@<.. &'?'+" '?' . " 1+'+' .<"(&"+55<*5<(+'. "9* <"+7+5'+N, . "<.&*,)')(*% /' . +6?"5+<'2" I(, "<.6.(B. "+ I<(' . % "% *'(6. "'?+" 7(&6, * & . &V"

f >?. "+,., . @+'(*%&i"

f >?. "<.X)(<. 1 . % '&"*9"'? . "+7+5'+N, . "<.&*,)')(*% "5<*6.&&/'(%6,)7(%@" '? ." 6<6) 1 &' +%6.&") %7.<" I ?(6?" (" 5<.6,)7.&"?' . "5+<'(.&"9<*1 "<.&) 1 (%@" + "9* <1 +, "6* 15,+("%' +<(&%"9<*1 "'?' . "&+1 . "+,., . @+'(*%&7.&6@0 .2(+)0 .(')0 .491 .626 - 44 1 Tm/BT5000 .2(&)0 .2(? .)0 .2(")JTJETQq0 .24002(")I/

" H%" (%7(<.6'/" 9+6,(+' .7" 6*%B.<&+'(%%" (%7(B(7)+,,2" I('?" '?'." 6* 15,+(%+% '/' " '?' .<.&5*%7.%/'" +%7g* <'?'<. 5+<(6(5+%'&' '* 7(&6)&&' .45.<.(%6." +%7" 5.<&5.6'(B."+%7" .45,*<.(%'<.&'&' I ?(,." I *<Y(%@" '* I +<7&' 1 ..'(%@" .45<.&&.7"% .7&a">?(&' %.@*(' .7"5<*6.&&'7* .&%"*'"<.X)<."7(<.6'("%'<+6'(%%"N.' I ..%"'"?' .5+<(.&"*'"?' .5+<(.&"+%7" *'?'<.5+<(6(5+%'&'N)"<+'?'</"(%7.5.%7.%',2/" I('?"+"6*%<7(%+'*<a"

" H" 9+6,(+' .7" (%'<+6'(%%"N.' I ..%"'"?' .<.&5*%7.%'" +%7" 0*,,.@."9+6), '2"+%7g* <'&'+99"7.&(@% .7"'*5<*B(7."+66*%)'+N(,'2/'&'<6')<.7"&)55* <'/" +%7"'?' . 7.B.,*5 1 .%" *9" +", .+<%(%" 5,+%a" >?." 9*6)&' *9" + " OUH" (&' '* N+,%+6." &)55* <'/" +%7" +66*%)'+N(,'2"9* <+"%("7(B(7)+, " I ?*'"?&"+6Y* I .,7@.7"'?'<.*N,(@+'(%%"*'"<.5+<?'<1 "+"%7" I(,,%@% .&&' '* .% @+@." (%' +%" .7)6+'(%%+, " 5<*6.&&a" >?." OUH" 1 *7., " 7* .&' %*'" <.X)<." 5+<(6(5+%'(%"9<* 1 "'?' .6* 15,+(%+% '/'N)"&+" I('?"*'"?'<"25.&"*9"+7+5'+N, .<.&*,)'(%%/'(" 1)&" N."B*,)'%'+<2"9* <'?' .6* 15,+(%+% '+'%7"'?' .<.&5*%7.%' a"

Q.+&<.&"'?'+" 1+2"N."+@<. .7"'*"+&"+<.&), "'*9"'?' ."+7+5'+N, .<.&*,)'(%%"5<*6.&&' 1+2"(%6,)7."V"

f H,6*?'*,.7)6+'(%%"6,+&&.&"9* <'?'<.&5*%7.%' i"

f C.@),+< 1 ..'(%@&' I('?'+"%"+55<*5<(+'. "0*,,.@."(%7(B(7)+,/'")%('/*<.&*)<6. i"

f G.<1+% .%" .4'.%&(%%"*9"+%*:.6*%' +6'"7(<.6'(B. i"

f C.&'<(6'(%%"9<* 1 "5+<(6(5+%'(%%"&5.6(9(6'6,)N&"+%7g* <'<@+% (d+'(%%&i"

f <.&5*%7.%'"<.&'<(6'(%%"9<* 1 "5+<(6(5+%'(%%"5+<(6),+<".B.%&i"

f <.&5*%7.%'"6* 15,.'(%%"*9"+% .7)6+'(%%+, "5,+%" I('?'<.@),+< 1 ..'(%@&' I('?"'?' ."+7+5'+N, .i" <.&*,)'(%%"6*%<7(%+'*<*'?'<.55<*5<(+'. "0*,,.@."&'+99* <'9+6), '2" 1 .1 N.<i'+%7g* <"

f 0*)%&.,(%@&.&&(%%"*9* <'?'<.&5*%7.%' a"

%" 7(B(7)+,&' I ?* I (&' '* 5+<(6(5+.' (%' +%" +7+5'+N, .<.&*,)'(%%"5<*6.&&' 1)&"' ?+B."&)66.&&9),,2" 6* 15,.' .7" 5<.5+<+'*<2" 1 ..'(%@&' I('?"'?' ."+7+5'+N, .<.&*,)'(%%"6*%<7(%+'*<a" %7(B(7)+,&' 1+2"N." +66* 15+%(.'7"N2"+%+7B(&.<+"+%2" 1 ..'(%@&.<.,+'.7"'*'"?' ."+7+5'+N, .<.&*,)'(%%"5<*6.&&a"

I7.<#,:%&k ; %/3\$+##31&IF.%%0%1#/#&

H%2" +@<.. 1 .%'&'<.+6? .7" (%' +%" +7+5'+N, .<.&*,)'(%%" 1)&' N." 7*6) 1 .%' .7" N2" '?' ."+7+5'+N, .<.&*,)'(%%" 6*%<7(%+'*<"+%7" +55<*B.7" N2" '?' . 0(B(," C(@?'&' D" >(' ,." \$E" 0*%<7(%+'*<' '* .%&)<." 6*%&(&' .%62" I('?"'?' . "0*,,.@.A&">(' ,." \$E"*N,(@+'(%%&a"H%" +@<.. 1 .%" I(,,"%*"N."6*%&(7.<.7" B+, (7"9" '?' . 0(B(," C(@?'&' D" >(' ,." \$E" 0*%<7(%+'*<' 7* .&' %*'" +55<*B." ('a" \$9" '?' . 0(B(," C(@?'&' D" >(' ,." \$E" 0*%<7(%+'*<' *<' 7.&(@% . ." +55<*B.&' +%" +@<.. 1 .%" +9'<' '?' . " 5+<(.&' ?+B." B*,)'%'+<(,2" <.+6? .7" 6*%&.%&)&"+&' '* ('&'<1 &'/'?'<.&5*%7.%'" I(,,"N.<.X)<."7"'* 6* 15,2" I('?"'?' . "+@<.. 1 .%' a" \$9" %*"+@<.. 1 .%" (&'<.+6? .7"'"?' . " 1+'<1+2"N."<.9.<<.7"'*'"?' . 0(B(," C(@?'&' D" >(' ,." \$E" 0*%<7(%+'*<'9* <'9)'<'<'+6'(%%a"U"6."?' . "0(B(," C(@?'&' D" >(' ,." \$E" 0*%<7(%+'*<' +55<*B.&' +%" +@<.. 1 .%'/'?' . "5+<(.&' +<."N*)%7"N2"('&'<1 &"+%7"6+%*'"<.)<%"*'" ; (&6(5,(%+<2" C.&*,)'(%%a"

>*9+<(,2"&&.&&5+' .<%"*<&2&' . 1 (6"N. ?+B(*<'?"' . 0(B(," C(@?'&' D" >(' ,." \$E" 0*%<7(%+'*<' I(,," 1 +(%'+(%' <.6* <7&"*9"+, "<.5* <'&"+%7"6*%7)6'"<.9.<<.7"9* <'+7+5'+N, .<.&*,)'(%%a">?' . ""(1 . "9<+ 1 . "9* <'6* 15,.' (%%" *9"+7+5'+N, .<.&*,)'(%%" 1+2" B+<2/" N)"'"?' . "0*,,.@." I(,,"&.. Y"'*'" (%'(+'. "+6'(%%" I('?'(%"9(9' . .%!)F]" N)&(&.&7+2&"*9"'?' . (%'(+, "&&.& 1 .%' a" c ?(, . "'?' . "0*,,.@." I(,,"&.. Y"'*'"?%* <'6*%9(7.%'+, ('2"*9"'?' . " 5+<(.&A"6* 1 1)%(6+%'(%%&' I('?"'?' . "9+6,(+'*<'7)<(@%"?' . "+7+5'+N, .<.&*,)'(%%"5<*6.&&"*'"?' . " .4'.%" "

% .6. &&+<2" '*9+6(,'+'.' '?'<.&*,)'(*%/ "'?. " 0*,,.@." 1+2"N."<.X)(<.7" '*5<*7)6."<.6*<7&" 6<.+'.7" 7)<(%@"'?(&'5<*6.&&"(%<.&5*%&." '*"+"b)7(6(+,&)N5* .%+"*("<"+"L3CGH".7)6+'(*%+,"<.6*<7"<.X) .&'a"\$9" +7+5'+N,."<.&*,)'(*% (&" &'*55.7" 5<(*<" '*6* 15,.'(*%/ &'+'. 1.%'&" 1+7." N2" +5+<'2" (%"+7+5'+N,." <.&*,)'(*%" 1+2"%*" "N.")&.7"(%"+7(&6(5,(%+<2"<.&*,)'(*%"5<*6.&&"<.,+'.7" '*"'?'+" 1+''.<a""

I 7, <# , : \$%& ; % 0 %7"/&3.&' 1#%.C% 1#"31/&3.	%&B3\$\$%F%&B3 0 0 +1"#@&

K??\$, @'>'!)M& - @\$, &!M+, %&'8, ', E!J.8%\$@ - .\$.!

\$9"+<.5*<'5<*6..7&'?'<*)@?' ; (&6(5,(%+<2"C.&*,)')(%%"+%7"'?'."<.&5*%7.%'"(&"9*)%7"<.&5*%&(N,."9*< *%."*<"1*<."B(*,+('(%&"*9"'?'."0*,,.@.A&"'+%(7(&6<(1(%+'(%*"5*(6(.&/'?'."0*,,.@."I(,,"(&&)."&+%6'(%%&" 6*11.1.%&)<+'. "I('?'?'."B(*,+('(%\&]a">?'."0(B,("C(@?'&"D">(',"\$E"0**<7(%+'*<"I(,,"7.&(@%+'."?'<.." '<+(% .7"(%7(B(7)+,&"*"&.<B."*%"+'?'<..:5.<&*%5+%,,"_C.B(. I"G+%.,`]"*7.'.<1(%."&+%6'(%%&a">?'." 0(B,("C(@?'&"D">(',"\$E"0**<7(%+'*<"I(,,"%*'92"'?'."5+<'(.&/'(%"I<('(%@/'*9"'?'."%+1."*9"'?'."7.&(@%+'."7" C.B(. I"G+%.,(&'&"+',.+&"9(B.\F]N)&(%.&&"7+2&"5<(*<"*"'?'."?+.<(%@a">?'."5+<'(.&"I(,,"?+B."*?'<.."S]N)&(%.&&"7+2&"*Nb.6""*"+%2"C.B(. I"G+%.,(&'*%"'?'."N+&(&"*9'+6')+,"N(+&"*<"6*%9,(6"*9"(%'<.&'a"\$9"+%2"5+<'2"*Nb.6"/'?'."0(B,("C(@?'&"D">(',"\$E"0**<7(%+'*<"I(,,".B+,)+."I?'.'?'<"'?"*Nb.6'(%%(& &)N&'+'(+'.7a">?'."0(B,("C(@?'&"D">(',"\$E"0**<7(%+'*<"I(,,"<.1*B."+%7"<.5,+6."+%2"C.B(. I"

+55<*5<+'.'<.&*,)'(*% "(% ".+6?"6+&.a"

"

>?. "0(B,"C(@?'&"D">(',\$E"0**<7(%+'*<"+,&*"?+&"'?. "7(&6<.'(*% "'* "<.B(. I "+%2"(%' .<(1 "5<*'.6'(B." *<"<. 1 .7(+, " 1 .+&<.&" '*7.'.<1 (%." I ?.'?.<"'?.2"&?*),7"N. "6?+%@.7"*<"+<."%*",*%@.<"+55,(6+N,.a" >?. "C.B(. I "G+%., "I (,,"(&&)." +7.'.<1 (%+'(*% "%&"+%6'(*%&"+%7"'?. "5+<'(.&" I (,,"<.6.(B. "%*' (6. "*9"'?. " 7.'.<1 (%+'(*% " I ('?("%9(B. "\F]"N)&(% .&&"7+2&"*9"

"

_____ "C.5+21 .% "'*"? . "0* ,. @ . " * < " * + % + 99 . 6' . 7"5 + < ' 2"9* < " 7 + 1 + @ . & " < . &) , ' (% @ " 9 < * 1 " + B (* , + ' (* % " * 9 " ? (& " 0 * 7 . a " > * " . % 9 * < 6 . " ? (& " & + % 6' (* % / " ? . " 0 * , . @ . " < . & . < B . & " ? . " < (@ ? " " * " I (' ? ? * , 7" (' & " ' < + % & 6 < (5' & " + % 7" 7 . @ < . . & " * < " * " 7 . % 2 " + " & ') 7 . % " 5 + < ' (6 (5 + ' (* % " (% " @ < + 7) + ' (* % " 6 . < . 1 * % (. & " + % 7" 5 < (B (, . @ . 7 " . B . % ' & a "

_____ "J')7 . % ' & " 1 + 2 " N . " < . 1 * B . 7"9 < * 1 " 0 * , . @ . " ? *) & (% @ " + % 7 g * < " N + < < . 7"9 < * 1 " + 55 , 2 (% @ " 9 * < " 6 + 1 5) & " ? *) & (% @ " 7) . " " * " 7 (& 6 (5 , (% + < 2 " B (* , + ' (* % & " * 9 " ? (& " 0 * 7 . a "

_____ " 346 ,) & (* % " 9 < * 1 " 0 * , . @ . " 5 < . 1 (& . & / " + ' . % 7 (% @ " 6 , + & & . & / " + % 7 " * ? . < " 5 < (B (, . @ . & " * < " + 6' (B (' . & " 9 * < " + " & 5 . 6 (9 (. 7"5 . < (* 7 " * 9 " (1 . / " + & " & . " 9 * < ? " (% " ? . " &) & 5 . % & (* % " * ' (6 . a " 8 * ' (6 . " * 9 " ? (& " + 6' (* % " I (, " < . 1 + (% " (% " ? . " & ') 7 . % ' A & " 6 * % 7) 6 " 9 (, . + % 7 " I (, " N . " 5 . < 1 + % . % ' , 2 " < . 6 * < 7 . 7 " * % " ? . " & ') 7 . % ' A & " + 6 + 7 . 1 (6 " ' < + % & 6 < (5' a " 0 * % 7 (' (* % & " 9 * < " < . + 7 1 (& & (* % " 1 + 2 " N . " & 5 . 6 (9 (. 7 " (% " ? . " &) & 5 . % & (* % " * ' (6 . a "

_____ "G . < 1 + % . % " " . < 1 (% + ' (* % " * 9 " & ') 7 . % " & ' + ') & " + % 7 " . 46 ,) & (* % " 9 < * 1 " 0 * , . @ . " 5 < . 1 (& . & / " 5 < (B (, . @ . & / " + % 7 " + 6' (B (' . & a " > ? (& " + 6' (* % " I (, " N . " 5 . < 1 + % . % ' , 2 " < . 6 * < 7 . 7 " * % " ? . " & ') 7 . % ' A & " + 6 + 7 . 1 (6 " ' < + % & 6 < (5' a "

_____ "H7 1 (& & (* % " ' * / " * < " + " 7 . @ < . . " + I + < 7 . 7 " N 2 / " ? . " 0 * , . @ . " 1 + 2 " N . " < . B * Y . 7"9 * < " 9 < +) 7 / " 1 (& < . 5 < . & . % ' + ' (* % " (% " * N' + (% @ " ? . " 7 . @ < . . " * < " B (* , + ' (* % " * 9 " 0 * , . @ . " 5 * , (6 . & / " ? . " J') 7 . % " 0 * 7 . " * 9 " 0 * % 7) 6 " * < " 9 * < " * ? . < " & . < (*) & " B (* , + ' (* % & " 6 * 1 1 (' . 7 " N 2 + " & ') 7 . % " 5 < (* < " * " . % < * , 1 . % " * < " @ < + 7) + ' (* % a "

_____ "> ? . " 0 * , . @ . " 1 + 2 " I (' ? ? * , 7 " + I + < 7 (% @ " + 7 . @ < . . " * ? . < I (& . " + < % . 7 ") % ' (, " ? . " 6 * 1 5 , . ' (* % " * 9 " ? . " 5 < * 6 . & & " & . " 9 * < ? " (% " - ' + < % . 7 " (, 402 (7 ") 0 . 2 (() 2 (") - 1 20 . 9 (- 1 65 . (- ') (7 ") 0 . 2 (() 2 (")

'<).'?'9(%7(%@"+&"* I ?.'?.<"'?. "+,,.@.7"6*%7)6"B(*,+'.7"'?. "J.4)+,"+%7"\$%'.<5.<&*%+," Q(&6*%7)6"G*(62a">?. "5+<('.&" I(,"?+B. "'?. "*55*%<')%('2"*&)N1('+"\$ 15+6"J'+'. 1.% ""' * "'?. " O.+<(%@" 0* 1 1 ('. /" +%7" '?. " O.+<(%@" 0* 1 1 ('. " I(," <.B(I " '?. " 5+<('.&A" \$ 15+6" J'+'. 1.% '&/" +%7" +,," *'?.<" 1+'.<(+,&" (%" '?. " 6+&." \<.7+6'.7" +&"%.6.&&+<2" +%7" +55<*5<(+'.]/" (%6,)7(%@"'?. " O.+<(%@"*%<"\$%B.&'(@+'(%%"U)'6* 1 . "+%7"'+'+6?.7"+55.%7(6.&/"(%"+&&.&&(%@"'?. " +55<*5<(+'. "&+%6'(%%a"

>?. " O.+<(%@" 0* 1 1 ('. .A&"<.B(I ("&"7*6) 1 .%' +<2"*%,2" +%7"%*"? . +<(%@" (&"?.,7a"L*,,* I (%@" &' +%7+<7" 5<+6'(6./" '?. " 0(B(," C(@?'&" D">('., "\$E" 0**<7(%+'*%< I(,," N. " +B+(,+N,." '?<*)@?*" " 7.,(N.<+'(%%&"*"+77<.&&"X) .&'(%%&" +N*)"'?' . " J.4)+,"+%7"\$%'.<5.<&*%+," Q(&6*%7)6"G*(62" +%7"<.,+' .7" 5<*6.7)<.&a" H%2" 7.6(&(%%" '*" I +<%/ "<.5<(1+%7/" *%<7(& 1 (&" + "9+6), '2" 1 . 1 N.< <.X)<.&" + ' I *:'?(<7&" 1 +b*%<'2"*9" '?. " 1 . 1 N.<&" 6*%7)6'(%@" '?. " ? . +<(%@" /" '?. " B*'. "(% . +6?" (%&' +%6. "'*N. " +Y.% "N2"&.6<.'N+,, *'a* % 7) 6

K??\$, @'>!Q)!K??\$+7!J.8%\$@ - .\$.!

H55.+,&"*9"? .+<(%@"*%<"(%B.&'@+'(B.*)'6* 1 .&" 1+2"N."9(.7"N2" .('?.<"5+<'2a"H55.+,&" 1)&"N."&.%'"
'*"'? ." 0(B("C(@?'&"D">('."\$E" 0**<7(%+'*%<" I('?'(%"9(B." \F]"N)&(%.&&"7+2&"*9"<.6.(5""*9"'? ."L(%+,"
C.5*<'a" c ?.%"+%" +55.+,"&"9(.7/"'?' ."*"'? .<"5+<'2" I(,"N."%*"9(.7/"(%" I<('(%@/"+"7"'? .%"?+B."9(B." \F]"
N)&(%.&&"7+2&"*%<.&5*%7""*"'? ." +55.+,"a"H%2"5+<'2A&"7.6(&(*%%"*""*%&)"N 1 ("+"<.5,2""*"+%" +55.+,"(&
%*" ".B(7.%6."?'+"'"?' .%*%"+55.+,"(%@"5+<'2"+@<.7" I('?'?' ." +55.+,"a"
"

>? ." +55.+,&"5<*6.&&"(&"7*6) 1 .%'<2"*%,2"/+%7"%*"? .+<(%@"(&"? .,7a"3('?.<"5+<'2" 1+2"9(. "+" +55.+,"
9V"!]" +7. ' .< 1 (%+'(%<.@+<7(%@"<.&5*%&(N,('2i+%7g*%<"#]"'?' ." 0(B("C(@?'&"D">('."\$E" 0**<7(%+'*%<A&"
7(& 1 (&&+, "*9"+"9*%< 1 +,"6* 15,+("%*"<"+%2"+,,. @+'(*%&"'?' .<.(%"9<* 1 "'?' . ">('."\$E" J.4)+,"O+<+&& 1 .%"
5<*6.&&"&*"') ,(% .7"(% "L*%< 1 +,"O* 15,+("%'&/" ; (& 1 (&&+,&"+%7"H55.+,&"*9" ; (& 1 (&&+,&/"*%""?' ."9* ,,* I (%@"
@<*) %7&V""

f G<*6.7)<+,"(<<.@),+<('2"'?+" +99.6'.7"'? ."*)'6* 1 ."*9"'? ." 1+''.<i"

f 8. I ".B(7.%6."?'+" I +&"%*"<.&+%N,2"+B(+,N,."+'"'? ." '(1 ."?' ."7. ' .< 1 (%+'(*%<.@+<7(%@"