!"#\$%&"'\$(%)*(\$+,*-%
./%0,-,1"2%34.1.%52678'%
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)9%56'1:"#1%
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"#(#A'(A!#!B#.A&!0)BB&0$')(!)>!:'A'$#B!3(#,32)$3!CC!&;&(!>).!$2&!#;&.#A&!#+#$&-.!

:'A'$#B!,2)$)A.#,2&.!CC!'3!#!02).&D!!/&#.02'(A!'3!)>$&(!B'+'$&:!$)!0#,$')(35!E-$!F.'$'(A!#!

:&30.',$';&!0#,$')(!>).!&#02!,2)$)!'3!);&.B4!$&:')-3D!!G&!#'+!$)!3'+,B'>4!$2&!+#(#A&+&($!)>!#!0)BB&0$')(!)>!,2)$)3!E4!&(#EB'(A!3&#.02&3!)(!$2&!0)($&($!)>!$2&!,2)$)A.#,23!

$2&+3&B;&3!F2'B&!+'('+'H'(A!$2&!#+)-($!)>!3-,&.;'3')(!E4!$2&!-3&.D!!G&!>)0-3!)(!$2&!,.)EB&+!)>!>'(:'(A!>#0&3!'(!,2)$)A.#,23D!!12&!-3&.!':&($'>'&3!#!3+#BB!(-+E&.!)>!>#0&3!'(!$2&!,2)$)10)BB&0$')(D!!I(0&!F&!2#;&!$2&3&!>#0&35!F&!0#(!.-(!#BA).'$2+3!)(!)$2&.!,'0$-.&3!

$)!3&#.02!$2.)-A2!#(:!>'(:!>#0&3!'(!$2&!,2)$)A.#,23D!!I(0&!F&!2#;&!B)0#$')(3!)>!>#0&35!F&!

F'BB!#$$&+,$!$)!.&0)A('H&!$2&!'(:';':-#B3D!))

))%)*1:.(7#1,.*%
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! *)+,-\$&.!%'3')(!2#3!;&.4!'(\$&.&3\$'(A!#,,B'0#\$')(3!F2&(!'\$!0)+&3!\$)!.&3&#.02!#(:!
)\$2&.!\$&02()B)A'&35!E-\$!:)&3(J\$!#,,B4!+-02!4&\$!F2&(!'\$!0)+&

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:'3A-'3&3!3-02!#3!F'A3!).!>#K&!E&#.:3DT<sup>®</sup>!!U) F&;&.5!$&3$3!'(!M)3$)(J3!V)A#(!9'.,).$!

R>#'B&:!+'3&.#EB4T!F2&(!'$!0#+&!$)!:&$&0$'(A!$&..).'3$3!W).5!'(!$2&!$&3$!0#3&35!'(:';':-#B3!

F2)!F&.&!3-,,)3&:!$)!E&!.&0)A('H&:!E4!$2&!343$&+XD!!G2&(!$2&!343$&+!F#3!3&$!$)!E&!$))!

3&(3'$';&5!'$!F)-B:!R.&0)A('H&T!;#.')-3!)EY&0$3!'(!$2&!30&(&!3-02!#3!,B#($3!#(:!:)A3D!!9(:!

F2&(!$2&!343$&+!F#3!3&$!$)!E&!$))!,.&0'3&5!'$!0)-B:!E&!>))B&:!E4!:'>>&.&($!B'A2$'(A!

0)(:'$')(3!).!E4!#(!'(:';':-#B!3'+,B4!F&#.'(A!#!2#$!).!#!,#'.!)>!AB#33&3D<sup>16</sup>!!12&.&>).&!'(!

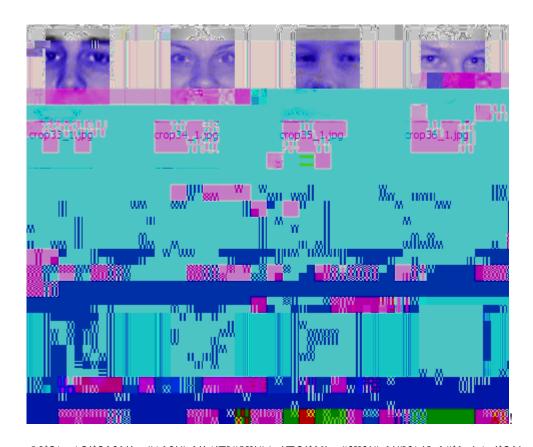
$2&!.&#B+!)>!3&0-.'$45!>#0&!.&0)A('$')(!3'+,B4!0#(()$!F).>.3662.(!F)-0.4(D)]ET.1TfET.1TTJTf[(!!1)10012
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E.'(A3!-,!\$2&!>'.3\$!,.)EB&+<!()\$!#BB!,2)\$)A.#,23!2

B#.A&!\$2&!>#0&!'35!\$2&!: '3\$#(0&!E&\$F&&(!\$2&!&4&3!'3!0#B0-B#\$&:D!! I - .!>'.3\$!0.),!'3!3B'A2\$B4!

B#.A&.!\$2#(!\$2&!#0\$-#B!>#0&5!E&0#-3&!#()\$2&.!0#B0-B#\$')(!+-3\$!E&!:&\$&.+'(&:<!!/'(0&!F&!F#(\$!#BB!\$2&!&4&3!\$)!E&!'(!\$2&!3#+&!,)3'\$')(5!F&!+-3\$!.)\$#\$&!\$2&!'+#A&!E#3&:!)(!\$2&!#(AB&!E&\$F&&(!\$2&!\$F)!&4&3D!!M4!\$#K'(A!\$2&!#.0!1#(!)>!\$2&!2&'A2\$!#(:!F':\$2!:'>>&.&(0&!F&!0#(!:&\$&.+'(&!\$2&!#(AB&5!#(:!.))\$#\$&!#00).:'(AB4D!! I (0&!F&!:)!\$2'35!F&!0#(!0.),!\$'A2\$&.!E#3&:!)(!\$2&!+':,)'(\$!)>!\$2&!&4&3!#(:!\$2&!:'3\$#(0&!E&\$F&&(!\$2&!&4&3D!!12&!'+#A&!'3!\$2&(!.&3'H&:!)(!\$2&!+':,)'(\$!)>!\$2&!&4&3!#(:!F.'\$\$&(!'(!\$2&!>).+#\$!)(..,a')+#A&(-+E&._>#0&(-+E&.D!,AD!!12&.&>).&5!>).!!>'B&(#+&!F&!2#;&!#00&33!\$)!

F2'02!,'0\$-.&!'\$!F#3!'(!#(:!F2#\$!(-+E&.!>#0&!'\$!F#3D!!12'3!0.&#\$&3!'+#A&3!\$2#\$!B))K!B'K&!
\$2&!>)BB)F'(A<!

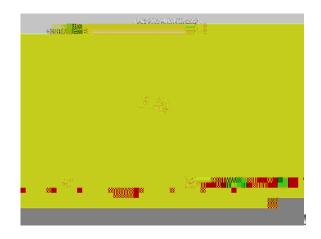


! 9B\$2)-A2!\$2&3&!'+#A&3!#.&!'(!EB#OK!#(:!F2'\$&5!+#3K3!#.&!#B3)!0.&#\$&:!>).!\$2&!

^{&#}x27;+#A&3!F2'02!32)F!F2&.&!\$2&!>#0&3!)00-.!'(!!'+#A&D!!12&.&>).&5!

! 1)!E&A'(5!b!F.)\$&!#!>-(0\$')(!WA&\$*)B).U'3\$D+X!\$2#\$!30#(3!\$2.)-A2!#BB!\$2&!'+#A&3!

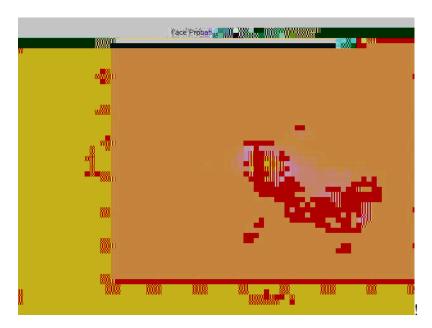
O)(!N#0&3<!



93!F&!0#(!3&&5!\$2&!)-\$0)+&!>.)+!\$2&!2'3\$)A.#+3!'3!>#;).#EB&!E&0#-3&!\$2&!+#Y).'\$4!
)>!\$2&!>#0&!, 'c&B3!#.&!B)0#\$&:!'(!#!3&,#.#\$&!E'(!>.)+!\$2&!()(!>#0&!, 'c&B3D!!12&.&>).&5!F&!

0#(!0)+&!-,!F'\$2!#!,.)E#E'B'\$4!+#\$.'c!3'+,B4!E4!:';':'(A!\$2&!>#0&!2'3\$)A.#+!E4!\$2&!3-+!

)>!\$2&!()(!>#0&!#(:!\$2&!>#0&!2'3\$)A.#+3D!!12'3!.&3-B\$3!'(!\$2&!>)BB)F'(A!,.)E#E'B'\$4!+#\$.'c<!



! G&!0#(!+):&B!\$2'3!:'3\$.'E-\$')(!F'\$2!#!3'(AB&!,#.#+&\$.'0!+):&B!E&0#-3&!\$2&! +#Y).'\$4!)>!\$2&!>#0&!, 'c&B3!#.&!B)0#\$&:!'(!)(&!E'(D!!G'\$2!\$2&!E'(!'(:'0&3!b!F#3!#EB&!\$)! :&\$&.+'(&!\$2#\$!\$2&!+#Y).'\$4!)>!\$2&!>#0&!, 'c&B3!2#:!#(!#!;#B-&!)>!@@Dd!#(:!#!E!;#B-&!)>!]D8D!!

! 9\$!\$2'3!,)'(\$5!#!>#0&(&33!+#,!E#3&:!)(!0)B).!0#(!E&!)E\$#'(&:!>).!#(4!

'+#A&D!!12&!>-(0\$')(!b!0.&#\$&:!W0)B).N#0&(&33D+X!0)(;&.\$3!\$2&!'+#A&!\$)!V#E!0)B).!3,#0&5!

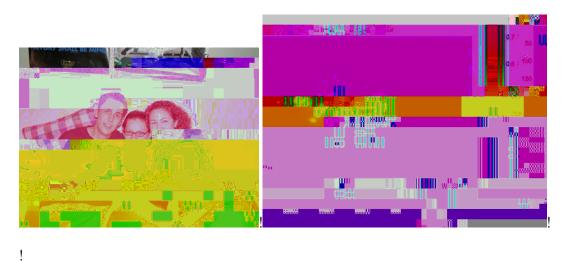
#(:!-3'(A!\$2&!3#+&!;#B-&3!>).!\$2&!+'(5!+#c5!#(:!(-+E&.!)>!E'(35!0)(;&.\$3!\$2&!#!#(:!E!

;#B-&3!'(\$)!E'(!'(:'0&3D!!12&3&!'(:'0&3!#.&!B))K&:!-,!'(!\$2&!,#.#+&\$.'0!>#0&(&33!+):&B5!

#(:!\$2#\$!,#.\$'0-B#.!;#B-&!'3!3&\$!>).!\$2#\$!,'c&BD!!9>\$&.!F&!A)!\$2.)-A2!#BB!\$2&!,'c&B35!F&J.&!B&>\$!

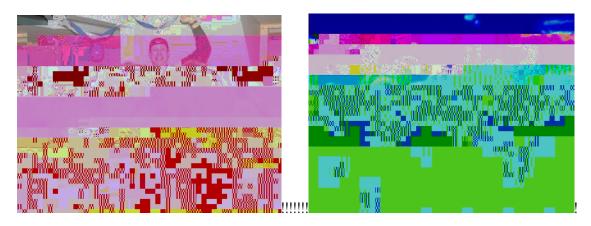
F'\$2!#(!'+#A&!\$2#\$!&c,.&33&3!\$2&!>#0&(&33!>).!!#.&#!)>!\$2&!,'0\$-.&D!!12&!>)BB)F'(A!'3!

#(!&c#+,B&!)>!#!0)B).!>#0&(&33!+#,<!



b(!\$2'3!>'A-.&5!\$2&!:#.K!EB-&!#.!3'A

I.'A'(#B<!!!!#,<!



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9()\$2&.!+-.&!)>!>#0&(&33!b!F).K&:!F'\$2!F#3!&'A&(>#0&!.&0)(3\$.-0\$')(D!!1)!

E&A'(5!!>#0&!W)E\$#'(&:!>.)+!,#.\$!#X!'3!.&32#,&:!\$)!E&!)(&!B)(A!2).'H)(\$#B!;&0\$).5!V@!

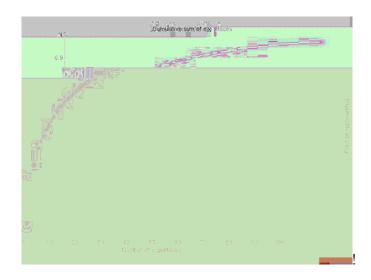
().+#B'H&:5!#(:!,B#0&:!'(!#!B#.A&!+#\$.'c!E4!\$2&!>-(0\$')(!>#0& "#\$.'cD+D!!G&!().+#B'H&!

!>#0&!\$)!+#K&!'\$!3)!\$2&!;#B-&3!#.&!'(!\$2&!3#+&!.#(A&!)>!:#\$#!3)!\$2&4!0#(!B#\$&.!E&!

0)+,#.&:!0)..&0\$B4D!!12&!+#\$.'c!0.&#\$&:!E4!\$2'3!>-(0\$')(!'3!)>!3'H&!+!E4!(!F2&.&!+!'3!\$2&!

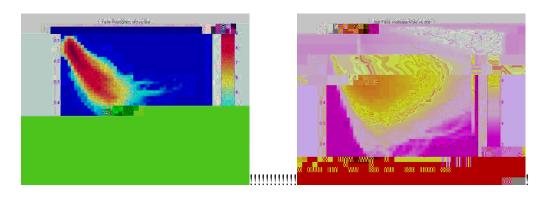
(-+E&.!)>!>#0&3!#(:!(!'3!\$2&!F':\$2!\$'+&3!\$2&!2&'A2\$!\$2#\$!'3!,#33&:!'(\$)!\$2&!>-(0\$')(D!!!

! N.)+!2&.&5!\$2'3!+#\$.'c!'3!,#33&:!'(\$)

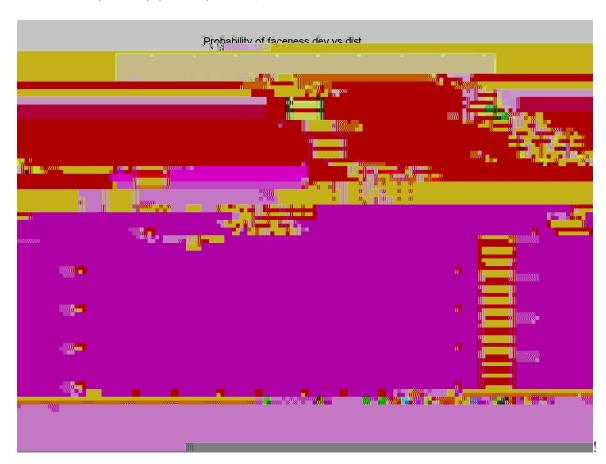


! 1)!)E\$#'(!#!>#0&(&33!+#,!F&!A)!\$2.)-A2!!,'c&B!+-02!B'K&!F&!:':!>).!\$2&!0)B).!
>#0&(&33!+#,D!!U)F&;&.5!&33&(\$'#BB4!F2#\$!F&!F#(\$!\$)!:)!'3!\$.4!\$)!.&0.&#\$&!#!,).\$')(!)>!\$2&!
'+#A&!#.)-(:!!,'c&BD

?&;'#\$')(!;3D!?'3\$#(0&!>).!N#0&3<!!!!!!!!!!!!?&;'#\$')(!;3D!?'3\$#(0&!>).!O)(!N#0&3<!



N.) + !\$2&3&!\$F)!+#\$.'0&35!#!,.)E#E'B'\$4!+#\$.'c!0#(!E&!0)+,)3&:!E4!:';':'(A!\$2&!
>#0&!2'3\$)A.#+!E4!\$2&!3-+!)>!\$2&!>#0&!#(:!()(!>#0&!2'3\$)A.#+3D!!12&!>)BB)F'(A!
,.)E#E'B'\$4!+#\$.'c!'3!0.&#\$&:5!F2'02!F&!0#(!,#33!'(\$)!#!>-(0\$')(!#(:!B))K!-,!;#B-&3!+-02!
B'K&!F&!:':!>).!\$2&!0)B).!>#0&(&33!+#,D!!

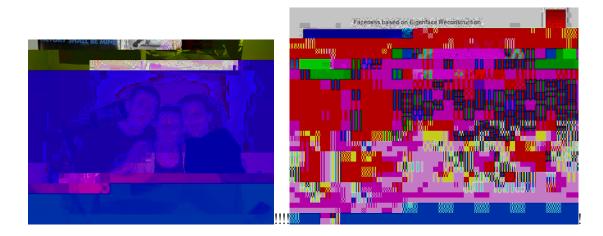


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! /'(0&!$2&!+#Y).'$4!)>!>#0&3!:)(J$!>#BB!'(!)(&!E'(5!F&!F'BB!-3&!$2'3!()(C,#.#+&$.'0!+):&B!$)!:&$&.+'(&!>#0&(&33D!!O)F!F&!0#(!B))K!-,!>#0&(&33!,.)E#E'B'$'&3!E#3&:!)(!

&'A&(>#0&3!+-02!B'K&!F&!:':!>).!$2&!0)B).!&'A&(>#0&3D!!M4!0#B0-B#$'(A!$2&!3$#(:#.:!
:&;'#$')(!)>!$2&!).'A'(#B!0.),,&:!'+#A&!#(:!$2&!:'3$#(0&!>.)+!$2&!.&0.&#$&:!'+#A&!$)!$2&!
).'A'(
```

3+#BB!3'H&!W.&3'H'(A!>'; &!\$'+&3!F'BB!.&:-0&!#!877c`77!'+#A&!\$)!]7cf7X!#\$!F2'02!\$2&.&!
0)-B:!E&!()!>#0&3!\$2&!3'H&!)>!\$2&!E)-(:'(A!E)cD!!!!!!

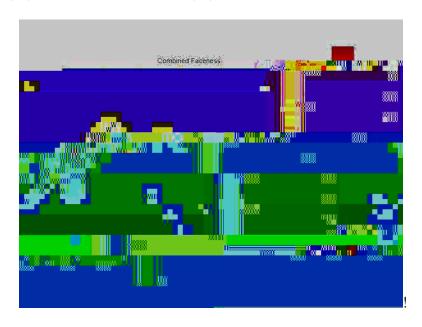
! 9\$!\$2&!&(:!)>!\$2'3!>-(0\$')(5!F&!#.&!B&>\$!F'\$2!#!>#0&(&33!+#,!E#3&:!)(!&'A&(>#0&!
.&0)(3\$.-0\$')(D!!12&.&!32)-B:!E&!,&#K3!'(!,B#0&3!'(!F2'02!>#0&3!)00-.D!!12&!>)BB)F'(A!'3!
#(!&c#+,B&!)>!#!>#0&(&33!+#,!E#3&:!)(!&'A&(>#0&!.&0)(3\$.-0\$')(D!



(=\|>:\\$''1,*-\\''\|>. 86,*\(\!''\|\\$*\\'\\A''B\\

I (0&!F&!2#;&!\$2&3&!\$F)!>#0&(&33!+#,35!0)+E'('(A!\$2&+!'3!:)(&!;'#! +-B\$',B'0#\$')(D!!12'3!3'+,B&!0#B0-B#\$')(!F'BB!F).K!E&0#-3&!)>!F2#\$!F&!F#(\$&:!>.)+!! >>!\$2&!>#0&(&33!+#,3D!!12&!0)B).!>#0&(&33!+#,!32)-B:!>'(:!#.!)>!3K'(\$)(&5!F2'B&!\$2&!(()-1(\$)-1(\$)-1(: .&\$-.(&:!E4!&'\$2&.D!!12&!.&3-B\$!'3!#(!'+#A&!\$2#\$!B))K3!B'K&!\$2&!>)BB)F'(A5!F'\$2!\$2&!,&#K3!)>!

0)B).!.&,.&3&(\$'(A!F2#\$!F&!-B\$'+#\$&B4!F#(\$5!)-.!>#0&3<!



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12&.&!#.&!3\$'BB!3) + &!#.!)>!0)B).!F2&.&!>#0&3!:)(J\$!)00-.D!!1)!0)..&0\$!\$2'35!b!

B))K&:!#\$!\$2&!;#B-&3!#(:!)E\$#'(&:!#!(-+&.'0#B!;#B-&!>).!F2#\$!b!E&B'&;&:!3&,#.#\$&:!>#0&3!

>.)+!()(!>#0&3D!!b!F.)\$&!\$2&!>-(0\$')(!>'(:N#0&3D+5!F2'02!2#3!\$2&!>#0&(&33!+#\$.'c!#3!'\$3!

)(B4!'(,-\$D!!b\$!\$-.(3!\$2&!'+#A&!'(\$)!#!E'(#.4!'+#A&!F2)3&!;#B-&3!:&,&(:!)(!\$2&!,.&!

:&\$&.+'(&:!\$2.&32)B:D!! I (0&!\$2&!E'(#.4!'+#A&!'3!)E\$#'(&:5!'\$!'3!,#33&:!'(\$)!#! "#\$B#E!

>-(0\$')(!0#BB&:!EF+).,2!F2'02!0B&#(3!-,!\$2&!E'(#.4!'+#A&!#(:!>'BB3!'(!2)B&3D!!12&(5!\$2&!+#\$.'c!'3!,#33&:!'(\$)!#()\$2&!."#\$B#E!>-(0\$')(!0#BB&:!EFB#E&B5!F2'02!>'(:3!0)((&0\$&:!

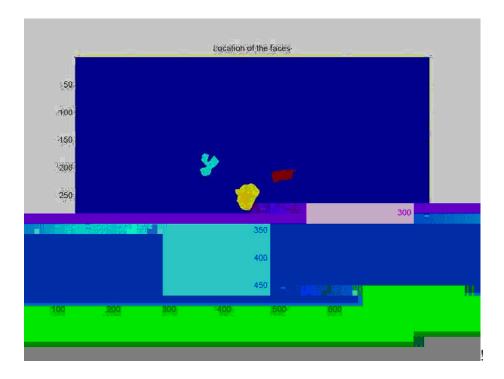
0)+,)(&(\$3!#(:!#33'A(3!\$2&+!#BB!\$2&!3#+&!;#B-&!:&,&(:'(A!)(!F2#\$!A.)-,!#!,'c&B!'3!'(D!!

12&(5!b!.-(!\$2&!'+#A&!\$2.)-A2!#!\$2.&32)B:!4&\$!#A#'(5!A&\$\$'(A!.':!)>!#(4!3+#BB!A.)-,3!\$2#\$!

,.)E#EB4!#.&(J\$!>#0&3D!!ZB\$'+#\$&B45!>'(:N#0&3!F'BB!.&\$-.(!#!+#\$.'c!F'\$2!;#B-&3!.#(A'(A!)).+|H&.)!\$)!\$2&!(-+E&.!)>!>#0&3!'(!\$2&!'+#A&D

F2&.&!\$2&!>'.3\$!>#0&!)00-.35!#.!F2&.&!\$2&!+#\$.'c!'3!\$F)!'3!F2&.&!\$2&!3&0)(:!>#0&!)00-.35!

&\$00!!12&!>)BB)F'(A!'3!#(!&c#+,B&!)>!F2#\$!'3!.&\$-.(&:!E4!>'(:N#0&3<!

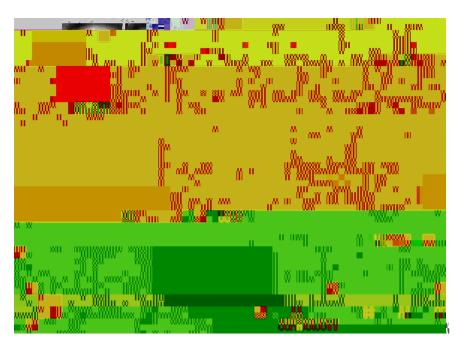


9 \$!\$2'3!,)'(\$5!>).!!)>!\$2&3&!A.)-,3!F&!0#(!>'(:!#!0&(\$&.!,)'(\$!)>!+#335!F2'02! F'BB!32)-B:!E&!\$2&!0&(\$&.!)>!\$2&!>#0&D!!N).!!A.)-,5!#(!#;&.#A&!c!#(:!4!;#B-&!'3! :&\$&.+'(&:5!#(:!\$2&!0&(\$&.!)>!+#33!F'BB!E&!\$2&!0&(\$&.!)>!\$2&!>#0&D!!!G&!()F!32)-B:!2#;&! \$2&!B)0#\$')(!)>!#BB!\$2&!>#0&3!'(!\$2&!'+#A&5!#(:!0#(!\$2&(!0.),!)-\$!\$2&3&!,).\$')(3!>).!-3&!'(!

)C9\\D@\\\.-*\E\\\\-\\\!\'\\\

12&!.&3-B\$3!)>!\$2'3!,#.\$!)>!+4!.&3&#.02!F&.&!3)+&F2#\$!-(3-00&33>-BD!!U)F&;&.5!
\$2&!#BA).'\$2+!'3!3\$'BB!'(\$&.&3\$'(A!&()-A2!\$)!:&\$#'BD!!1)!E&A'(5!b!\$.'&:!\$)!A.)-,!\$2&!).'A'(#B!
0.),,&:!>#0&3!'(\$)!A.)-,3!)>!\$2&!3#+&!,&.3)(D!!1)!:)!\$2'35!b!F).K&:!F'\$2!\$2&!&'A&(>#0&3!)
)E\$#'(&:!F2&(!\$.#'('(A!\$2&!#BA).'\$2+D!!!

! M#3'0#BB45!\$2&.&!#.&!+#(4!F#43!\$)!A)!#E)-\$!A.)-,'(A!\$2&!'+#A&3D!!b!E&B'&;&:!\$2&! E&3\$!\\\(:!>\#3\&3\X!F\#4!F)-B:!\\$)!E&!\\$)!)E\\\\(:!\\$2\&!>\#0\&!3,\#0\&!0)).:'(\#\\$\&3!)>!\&\#02!>\#0\&5!\#(:!



12&!>'.3\$!'+#A&!'(!\$2&3&!0B-3\$&.3!'3!#!.&,.&3&(\$#\$')(!)>!\$2&!0B-3\$&.!0&(\$&.!>).!!

,#.\$'0-B#.!A.)-,5!#(:!A';&3!-3!#(!':&#!)>!F2#\$!'(!0)++)(!\$2&3&!>#0&3!2#;&D!!N).!'(3\$#(0&5!)

'(!0B-3\$&.!>';&5!+)3\$!)>!\$2&!,&),B&!#.&!B))K'(A!\$)!\$2&'.!.'A2\$!3)+&F2#\$5!#(:!\$2&!3+'B&3!#.&!

#BB!3)+&F2#\$!3'+'B#.D!!b(3\$&#:!)>!A.)-,'(A!\$2&!3#+&!,&),B&!'(\$)!\$2&!3#+&!0B-3\$&.5!'\$J3!

A.)-,'(A!,&),B&!\$)A&\$2&.!F2)!#.&!,)3&:!\$2&!3#+&!F#4!#(:!-(:&.!\$2&!3#+&!B'A2\$'(A!)

0)(:'\$')(3D!

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)>!#!2) +&F).K!#33'A(+&(\$!0) +, B&\$&:!>).!=.)>&33).! "#.\$'(J3!*) +, -\$&.!%'3')(!0B#335!#(:!

'\$!F).K&:!a-'\$&!F&BB!3'(0&!\$2&!,2)\$)3!F&.&!#BB!32)\$!-(:&.!B#E!0)(:'\$')(3D!!M-\$!#'.,).\$35!#(:!

#3!bJ;&!>)-(:!)-\$!'(!+4!,2)\$)!#BE-+5!&;&.4:#4!0)(:'\$')(35!:)(J\$!+#K&!A)):!,2)\$)A.#,23!

\$)!E&!-3&:!'(!>#0&!.&0)A('\$')(D!!Z(>).\$-(#\$&B45!\$2&!;#.'#EB&3!F2'02!b!E&B'&;&:!F)-B:!E&!

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+&\$2):!)>!>'(:'(A!#!>#0&!E#3&:!)(!0)B).!3&&+3!\$)!E&!#!,.&\$\$4!A)):!'(:'0#\$).!)>!F2&.&!#!
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#BA).'\$2+3!,.):-0&3!,.&\$\$4!A)):!.&3-B\$3!W'\$!-3-#BB4!>'(:3!+)3\$!)>!\$2&!>#0&3X!E-\$!b!>&&B!\$2'3!

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+-B\$',B'0#\$')(!)>!\$2&3&!\$F)!+#\$.'0&3!:)&3!A&\$!.':!)>!\$2&!+#Y).'\$4!)>!\$2&!>#B3&!,)3'\$';&35!
F2&(!B))K'(A!#\$!\$2&!>#0&+#,!>.)+!&'A&(>#0&!.&0)(3\$.-0\$')(!)(&!()\$'0&3!\$2#\$!'\$3J!.&3-B\$3!

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 #!B#.A&!,2)\$)!#BE-+D!!b:&#BB45!#!>#0&!>'(:'(A!#BA).'\$2+!32)-B:!2#;&!#!.-(\$'+&!)>!B&33!\$2#(!
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6P

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((((2\&E(+(9,5,>>,B0\&EC))M==(M==*C(=C(HL'%AH1J(
((((A(+(!/94$&,-0H:,"//&,#HCS6Ch1J(
((((&E(+(&E!&-%4>0&ECA1J(
((((())EC#*(+(/&N40&E1J(
((((!\&-4\#,E4M(+())HE,/@H(\&\#%M/%>0F1(H789:H*(
((((E,/@(+(5'"L-40\&E>4,50!\&-4\#,E4M11VMOOJ(
((((%'9-4!%(+())0A4&:A%VM1X6(0D&5%AVM1X6*J(
((((L'%%'E>&:A%(+()E;OA4&:A%VM1(#;OD&5%AVM1*J(
((((!'>(F+(%'9-4!%061GL'%%'E>&:A%061(
((((((((((%A&/9&$(+(&E$>'90&EC3^?Y1J(
((((((((((&EL4!'>4(+(%A&/9&$J(
            %A&/9&$((+(%A&/9&$(V(/"E0,L/0%A&/9&$0G111J(
(
    (
            %A&/9&$(+(>4/A,940%A&/9&$C6CD&5%ATA4&:A%1J(
    (
        (
            2/"L%>,$%(%A4(E4,#(!,$4(
    (
            &EM(+(5'"L-40%A&/9&$1(;(E4,\#P,$4J(
            EBn4\&:A%/(+(\&EM(T(4\&:P,$4/HJ(
            >4$>4,845P,$4(+(E4,#P,$4(X(EBn4&:A8/T4&:P,$4/J(
    (
(((((((((((54Z(+(/%50&EL4!'>40G11J(
OE&#5&/%111J(
(((((((((((((54ZZ,-+L&#/J(
((((((((((4#5(
((((((((((4#5(
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!"#$%&'#()$'-'>!,$4E,9*(+($'-'>P,$4#4//0&EC9M1J(
2F \setminus .QY(
2(((&E(;($'-'>(&E,:4(>4$4&Z45(5&>4$%-B(!>'E(8"/%(&E>4,5(
2(
,E&#+;i=JLE&#+;i=J(
,E,I+]=JLE,I+]=J(
L&\#/+hOJ(/\&:E,(+(hJ(
A(+(!/94$&,-0H:,"//&,#HCS6CS701J(
&E(+(&E!&-%4>0&ECA1J(
)EC#C5'#%$,>4*(+(/&N40&E1J(
$'-'>!,$4E,9(+(N4>'/0EC#1J(
)jC,CL*(+(3klMj,L0&E1J(
!'>(F+6GE(
((((!'>(W+6G#(
((((((((,Z,-(+(6X!-''>0L&#/T0,0FCW1;0,E&#11V0,E,I;0,E&#111J(
((((((((LZ,-(+(6X!-''>0L&#/T0L0FCW1;0LE&#11V0LE,I;0LE&#111J(
(((((((((2,Z,-(+(,OFCW1J(LZ,-(+(LOFCW1J(
(((((((((29)'L(+(/R)%00,Z,-;667000i1[M(X(0LZ,-(;()7hhhh1[MIJ(
(((((((((9>'L(+(9M0,Z,-CLZ,-1J(
((((4#5(
4#5(
!&:">4061J&E,:4/$0$'-'>!,$4E,91J,I&/(&E,:4J%>"4/&N4J%&%-40HP,$4#4//('!(
&E,:4(L,/45('#($'-'>H1J(
!
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```

`8

```
!"#$%&'#(EBE,%>&I(+(4&:4#P,$4#4//.>'LO&EC(
4&:P,$4/CE4,#P,$4CD&5%ACA4&:A%C91J(
2!"#$%&'#(EBE,%>&I(+(4&:4#P,$4#4//.>'LO&EC(
4&:P,$4/CE4,#P,$4CD&5%ACA4&:A%C91J(
2F \setminus .QY(
2(((\&E(G(,(:>,B/\$,-4\&E,:4(
2((((4\&:P,\$4/G(\$A4(4\&:4\#P,\$4/(!>'E(.?b(
2((((E4, #P, $4G(%A4(E4, #P, $4(!>'E(.?b(
2((((D&5%ACA4&:A%G(%A4(D&5%A(,#5(A4&:A%('!(%A4(L'I(%'("/4(
2doy.oy(
2((((EBE, %>&I(G(b(E, %>&I('!(%A4(a!, $4#4//a('!(4, $A(9&I4-(
)EC#*(+(/&N40&E1J(
$'"#%4>+=J$'"#%4>M+6J(
A(+(!/94\$\&,-0H:,"//\&,\#HCS6Ch1J(
&E(+(&E!&-%4>0&ECA1J(EBE&#(+(ffffJ((EBE,I(+(;ffffJ(
((($'"#%4>+$'"#%4>X6J(
(((%'9-4!%(+())0A4&:A%VM1X6(0D&5%AVM1X6*J(
(((L'%%'E>&:A%(+()E;OA4&:A%VM1(#;OD&5%AVM1*J(
(((E, %>\&I(+(N4>'/0E;A4\&:A%C\#;D\&5%A1J(
((((
(((!')(F+(%')9-4!\%061GL'\%\%'E)\&:A\%061(
(((((((((((%A&/9&$(+(&E$>'90&EC3^?Y1J(
!,$40,-0%A&/9&$C4&:P,$4/CE4,#P,$4CD&5%ACA4&:A%C$!"#%4>CFCWC91J(
((((((4#5(
((((((F(
(((4#5(
((((
(((&!($'"#%4>(++(6(
(((((((EBE,%>&I(+(E,%>&IJ(
(((4#5(
(((D > \& 49 \& +6; \#' > E, -\&N40E, % > \&I1J(
(((2TTTTTTTQ#$'EE4#%(%A4(#4I%(-&#4(&!(B'"H>4(E,@&#:(,(E'Z&4(
(((2E'Z\&4M,Z\&0cC)H!,$4E'Z\&47,Z\&H*CH!9/HC6=1J(
((((
(((\&ED>\&\$40#'>E,-\&N40D>\&\$49\&\$1C)H!,\$4#4//H(\&\#\$M/\$>0\$'"\#\$4>1(
H789:H*CH894:H1J(
(((!\&5(+(!'94#0H!,$4#4//7A%EHCH,H1J(
(((!9)\&\#\$!0!\&5C(H)\&E:(/>\$+aH1J!9>\&\#\$!0!\&5CH2/HC)H!,\$4\#4//H()
&#%M/%>0$'"#%4>1(H789:H*1J(
(((!9>&#%!0!&5CHa<`L><H1J((
(((!$-'/40!&51J(
(((&E+&E>4/&N40&EC/&N40&E1V/R>%0M1CHL&-&#4,>H1J(
((())EC#*+/&N40&E1J(
(((24#5(
(
!"#$%&'#()Z,-C>4$>4,%45P,$4*(+(
!,$40,-0&EC4&:P,$4/CE4,#P,$4CD&5%ACA4&:A%C$!"#%4>CFCWC91J(
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2 (
```

! `d

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E\& #54Z(+(=J((E,I54Z(+(7hJ(
E\&\#5\&/%(+(7=hJ((E,I5\&/%(+(7mJ(L\&\#/(+(hOJ(E,E)))))))))
&EL4!'>4(+(&EJ(
&E((+(&E(V(/"E0,L/0&E0G111J(
&E(+(>4/A,940&EC6CD&5%ATA4&:A%1J(
2/"L%>,$%(%A4(E4,#(!,$4(
&EM(+(5'"L-40&E1(;(E4, #P,$4J(
2Y,@4(%A4(5'%(9>'5"$%(%'(54%4>E&#4(%A4(D4&:A%/(
EBn4&:A%/(+(\&EM(T(4\&:P,$4/HJ(
2\'D(>4$>4,%4(%A4(!,$4(LB(E"-%&9-B&#:(%A4(D4&:A%/(,#5(4&:4#!,$4/(,#5(
,55&#:(
2%'(%A4(E4, #P,$4(
>4$>4, $45P, $4(+(E4, \#P, \$4(X(EBn4\&:A\$/T4\&:P, \$4/J(EBn4\&:A\$/T4\&:P, \$4/J(EBn4\&:AB); **
54Z(+(/%50&EL4!'>40G11J(
5&/%(+(/"E0,L/0&E(;(>4$>4,%45P,$411J(
54ZZ,-(+(6X!-''>0L&#/T054Z;0E&#54Z11V0E,I54Z;0E&#54Z111J(
5&/%Z,-(+(6X!-''>0L&#/T05&/%;0E&#5&/%11V0E,I5&/%;0E&#5&/%111J(
Z, -(+(9054ZZ, -C5\&/%Z, -1J(
!
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2(

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!
!"#$%&'#()!,$4#4//*(+($'EL&#4P,$4#4//04&:P,$4#4//C$'-P,$4#4//1(
2(
2(
)EC#*(+(/&N404&:P,$4#4//1J(
)EMC#M*(+(/&N40$'-P,$4#4//1J(
4\&:P,\$4\#4//(+(9,5,>),B04\&:P,\$4\#4//C)0EM;E1VM(0\#M;\#1VM*C=CHL'\$AH1J(-1),B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,B04A+1,
!,$4#4//(+(04&:P,$4#4//1(7T(07OT$'-P,$4#4//1J(
!&:">40h1J&E,:4/$0!,$4#4//1J,I&/(&E,:4J%>"4/&N4J%&%-40H?'EL&#,%&'#('!(
$'-'>(,#5(4&:4#!,$4(!,$4#4//H1J(
!
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```

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```
!
!"#$%&'#()4&:4#!,$4/C!,$4/9,$4CE4,#P,$4*(+(.?b0#"E4&:/CblJ(
2!"#$%&'#()4&:4#!,$4/C!,$4/9,$4CE4,#P,$4*(+(.?b0#"E4&:/Cb1J(
2F\.QYe(
2(((#"E4&:/(G(YA4(#"EL4>('!(4&:4#!,$4/(%'(>4%">#(
2(((b(G(b#(E(I(#(E,%>&I(DA4>4(%A4(>'D/($'>>4/9'#5(%'('#4(!,$4(&E,:4(,#5(
2(((&/(%A4(#"EL4>('!(!,$4/(
2dQY.QYe(
2(((4&:4#!,$4/G(%A4(4&:4#P,$4/(>4%">#45(!>'E(/Z5(
2(((!,$4/9,$4G(%A4(D4&:A%/(!'>(4,$A('!(%A4(!,$4/(
2(((E4, #P, $4G(%A4(,Z4>,:4(!,$4(
(
E4, #P, $4(+(E4, #0b1J(
)EC#*(+(/&N40b1J(
2!\&:">4061J$-!J&E,:4/$0>4/A,940E4,#P,$4HC6M=C]=11J,I&/(
&E,:4J%>''4/&N4J$'-'>E,9(:>,BJ(
2(\#') = (+(E4, \#P, \$4(; (E\&\#(0(E4, \#P, \$40G1(1J(\#') = E4, \#(+(\#') = E(V(E, I(0(E4, \#P, \$40G1(1J(\#') = E4, \#(+(\#') = E(V(E, I(0(E4, \#P, \$40G1(1J(\#') = E4, \#(+(\#') = E(V(E, I(0(E4, \#P, \$40G1(1J(\#') = E4, \#(+(\#') 
#'>E0G1(1J(
2(&ED>&%40#'>EE4, #CHE4, #P, $4789:HCH894:H1J(
2((
2((
2(!&5(+(!'94#0H4&:!,$4&#54I7A%E-HCH,H1J(!9>&#%!0!&5CH`&E:(
/>$+aE4,#P,$4789:a<H1J(!$-'/40!&51J(
!'>(F+6GE(
((((b0FCG1(+(b0FCG1(;(E4, #P,$4J(
4#5(
2P&#5(%A4(4&:4#Z4$%'>/('!(b(
) "C/CZ*(+(/Z50bHC=1J(
),CL*(+(/&N40"1J(
(
```

```
2(4#5(
2(5\&,:'\#,-(+(5\&,:04\&:Z,-/1J(
2(\$"E"-(+(\$"E/"E05\&,:'\#,-1J(
2(!&:">4061JA'-5('#J(
2(!'>(F+6G#"E4&:/(
2(((((9-'%0FC$"E"-0F1CH>IH1J(
2(4#5(
4&:4#!, $4/(+(N4>'/0#"E4&:/C#1J(
!'>(F+6G#"E4&:/(
((((4&:4#!,$4/0FCG1(+("0GCF1HJ(
4#5(
!,$4/9,$4(+(N4>'/OEC#"E4&:/1J(
!'>(F+6GE(
((((!'>(W+6G#"E4&:/(
(((((((((((,,$4/9,$40FCW1(+(5'%0b0FCG1C4&:4#!,$4/0WCG11J(
((((4#5(
4#5(
!
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!
!"#$%&'#()e*(+(/&E&-,>&%Bc,%>&IOp1(
2((!"#$%&'#()e*(+(/&E&-,>&%Bc,%>&IO!,$4e9,$4C4&:P,$4/CE4,#P,$41(
2(((F\.QY(G((
```

```
!
!
!"#$%&'#()&#54IC-'$*(+(9,&>?-"/%4>0eC@C$-"/%4>/1(
2(
2(
2 (
2(
)"C/CZ*(+(/Z50e1J(
)EC#*(+(/&N40"1J(
4&:Z4$%(+(N4>'/0@CE1J(
!'>(F+6G@(
((((4&:Z4$%0FCG1(+("0GCF1HJ(
4#5(
(
)&#54IC-'$*(+(@E4,#/04&:Z4$%HC$-"/%4>/CH349-&$,%4/HCM=C(
H^E9%Bb$%&'#HCH/&#:-4%'#HCHp&/9-,BHCH&%4>H1J(
!
!
!
!
!
!
!
```

```
!
1
!"#$%&'#()*(+(
E,@4?-"/%4>.,:40@E4,#45C-'$C4&:P,$4/CE4,#P,$4C9,:4#,E4C54/$1(
2(!"#$%&'#()*(+(
E,@4?-"/%4>.,:40@E4,#45C-'$C!,$4e9,$4CE4,#P,$4C9,:4#,E4C54/$1(
2(((F\.QY(
2((((((@E4,#45(G(%A4(&#54I(>4$4&Z45(!>'E(@E4,#/(
2((((((((-'\$(G(\$A4(-'\$(>4\$4\&Z45(!>'E(@E4,#/(
2(((((((9,:4#,E4G(%A4(#,E4('!(%A4('"%9"%(&#54I(9,:4(OD&%A'"%(7A%E1(
2(((((((54/$(G(,(/%>&#:(54/$>&9%&'#('!(%A4(9,:4(
9&$/(+(5&>0HT T T789:H1J(
)EC#*(+(/&N40@E4,#451J(
!&5(+(!'94#0)9,:4#,E4(H7A%EH*CH,H1J(
!9>&#%!0!&5CH`!'#%(/&N4+aXSa`L<H1J!9>&#%!0!&5C(
54/$1J!9>&#%!0!&5CH`V!'#%<`VL<`9<H1J(
!$-'/40!&51J(
!'>(F+6GE, I0@E4, #451(
(((((((2>4$>4,84P,$4FE0-'$0FCG1C9,:4#,E4CF1J(
((((((, 4$>4, $4P,$4q0-'$0FCG1C9,:4#,E4C4&:P,$4/CE4,#P,$4CF1J(
((((((!'>(W+6GE(
(((((((((&!(@E4,#450W1++F(
/>$+aH1J!9>&#%!0!&5CH2/HC9&$/0W17#,E41J!9>&#%!0!&5CHa<K#H1J(
((((((((4#5(
(((((4#5(
((((((!\&5(+(!'94#0)9,:4#,E4(H7A%EH*CH,H1J(
((((((!9>&#%!0!&5CH`9<H1J(
((((((!$-'/40!&51J(
((4#5(
!
!
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```

```
!
1
!"#$%&'#()*(+(>4$>4,%4P,$4q0-'$C9,:4#,E4C4&:P,$4/CE4,#P,$4CW1(
2F\.QYeG(
2(((((-'$(G(%A4(-'$(>4%">#45(LB(@E4,#/(
2((((((9,:4#,E4G(%A4(#,E4('!(%A4(A%E-(!&-4(
2(((((4\&:P,\$4/G(\$A4(4\&:4\#P,\$4/(!>'E(.?b(
2(((((E4, #P, $4G(%A4(E4, #P, $4(!>'E(.?b(
2(((((W(G(%A4(#"EL4>(%A,%H/(9"%(,!%4>(%A4(!&-4#,E4(
>4$>4,%45b(+(E4,#P,$4J(
)5'#%$,>4C#"E4&:/*(+(/&N40-'$1J(
!'>(F+6G#"E4&:/(
(((>4$>4, %45b(+(>4$>4, %45b(X(0-'$06CF1(T(4&:P,$4/0FCG11J(
4#5(
&ED>&%40EB&EC)9,:4#,E4(&#%M/%>0W1(H789:H*CH894:H1J(
(
!&5(+(!'94#0)9,:4#,E4(H7A%EH*CH,H1J(
!9>&#%!0!&5C(H?-"/%4>(
H1J!9>&#%!0!&5CH2/HC&#%M/%>0W11J!9>&#%!0!&5CHGK#H1J(
!9>&#%!0!&5C(H`&E:(/>$+aH1J!9>&#%!0!&5CH2/HC)9,:4#,E4(&#%M/%>0W1(
H789:H*1J!9>&#%!0!&5CHa<K#H1J(
!$-'/40!&51J(
!
!
!
!
!
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!
```

```
!
!
!"#$%&'#()*(+(>4$>4,%4P,$4FE0EB&EC9,:4#,E4CF1J(
2(()*(+(!"#$%&'#(>4$>4,%4P,$4FE0-'$C9,:4#,E41J(
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