

! " # \$ % " & ' ( ' ) \* + # , - + ) " . ( & . ' ( / & ) # . 0 \* \* 1 ( 2 3 ) % " \* " 2 3 4 ( ' 0 2 & # + 5 0 . + 6 (

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OL=7I (F?: D<BI (J =J C=7(; EAA=AA=A(BKEA=(A; =: 8?<PD?<8B8=A(EF(J 89@(?9@ @8A:8; <89=(BK?B(=9?C<=A(K8J QK=7(BE(?@L?9: =(H9EG<=@M=(89(BK=87(7=<=L?9B( A; =: 8?<88=A(?9@(ADCA; =: 8?<88=A(89(2K8<EAE; KI (?9@((AE(BE(B=? : K(CEBK( D9@=7M7?@D?B=(?9@(M7?@D?B=(ABD@=9BA(?B(BK=(K8MK=AB(<=L=<EF(=R; =7B8A=( ; EAA8C<=6(&A(AD: K1(BK=(; 789:8; ?<J EB8L?B8E9(FE7(B=? : K89M(?9@(7=A=?7: K( @8AB78CDB8E9(8A(BK=(=9K?9: =J =9B(EF(BK=(7=A=?7: K(?9@(: 7=?B8L=(=FFE7BA(EF( BK=(F?: D<BI >(F?: D<BI (@=L=<E; J =9B(8A(BK=(; 789:8; ?<ME?<?FF=: B89M(@=: 8A8E9A( ?A(BE(BK=(@8AB78CDB8E9(EF(<?CE71(BK?B(8A1(: ED7A=A(B?DMKB(E7(BE(C=(B?DMKB(?B( ?<<=<L=<A6(/?: D<BI (@=L=<E; J =9B(BK7EDMK(7=A=?7: K(?9@(G78B89M(9EB(E9<I ( =9K?9: =A(BK=(PD?<8BI (EF(BK=(7=A=?7: K(8BA=<f(?A(?L?<D=(89(8BA=<f1(BK=( ; D7AD8B(EF(B7DBK1(CDB(=<=L?B=A(BK=(<=L=<EF(; =@?MEM8: ?<=R: =<=9: =(?A( G=<=<(+K=7=FE7=1(BK=(@8AB78CDB8E9(EF(GE7H<E?@A1(K=7=(D9@=7ABEE@(?A( B=? : K89M(89(BK=( : <?AA7EEJ 1(8A(?@=78L?B8L=(EF(BK=(; 789:8; ?<ME?<EF( =9K?9: 89M(BK=(89B=<=: BD?<8F=(EF(BK=( - 98L=7A8BI (BK7EDMK(PD?<8BI (7=A=?7: K( C I (BK=(F?: D<BI 6(&AA8M9J =9BA1(BK=7=FE7=1(?7=(J ?@=(E9(BK=(C?A8A(EF(F?: D<BI ( @=L=<E; J =9B(?9@(ABD@=9B(9==@1(CEBK(M=9=78: (S: E7=T(?A(G=<=<?A(A; =: 8F8: ( BE(BK=(J ?UE7SAT1(J 89E7A(?9@(M7?@D?B=(ABD@8=A6(+K=(@87=: B( : E77=<?B8E9( C=BG==9(7=A=?7: K(?9@(B=? : K89M1(BK=7=FE7=1(8A(BK=(; 789:8; ?<J EB8L?BE7(FE7( ?AA8M9J =9B(@=A8M9?B8E9(?9@(@8AB78CDB8E96((

+K=(UD@MJ =9B(: E9: =7989M(CEBK(: ED7A=(@=A8M9?B8E9(S: ED7A=A(BE(C=(  
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BK8A(E7@=789M(8A(BK=(FE<<EG89M>(ABD@=9BA(C=9=F8B(@87=: B<I (?9@89@87=: B<I (CI(  
BK=(=R; =7B8A=(EF(BK=(F?: D-BI1(?9@(AE(@E(BK=(OE<<=M=(?9@(' =; ?7BJ =9B(  
C=9=F8B6(278E78BI (EF(F?: D-BI (@=L=<E; J =9B(<=?@A(BE(VT(=R: =<<9: =(89(BK=(  
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B=? : K89M(<E?@BI ; 8: ?<<I1(BKEDMK(9EB(9=: =AA?78<I1(8A(VQV1(E9=(  
M7?@D?B=(A=J 89?7(; =7(A=J =AB=71(89(BK=87(?7=?A(EF(7=A=?7: K(?9@(  
; DC&: ?B8E96((09@EG=@(: K?87A(J ?I (: KEEA=(BE(B=? : K(E9(BK=(  
D9@=7M7?@D?B=(<=L=<?A(G=<<6(09@EG=@(: K?87A(?7=(?<AE(=9: ED7?M=@(  
BE(: E9@D: B(7=?@89M(M7ED; A(?BB=9@=@(BE(CI (M7?@D?B=(ABD@=9BA1(  
E: : ?A8E9?<D9@=7M7?@D?B=A(?9@F?: D&BI (F7EJ (\*%- (?A(G=<<?A(  
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B=? : K89M(L=9D=A(?9@E; ; E7BD98B8=A(?9@(: ED9B(A8M98F8: ?9B<I (?A(; ?7B(  
EF(BK=(09@EG=@(OK?87A(B=? : K89M(7=A; E9A8C8&B8=A6(/89?<<I1(  
@8AA=7B?B8E9(@87=: B8E9(8A(BK=(D&8J ?B=(FE7J (EF(; =@?MEMI (E9(BK=(; ?7B(  
EF(?<<F?: D&BI1(CDB(=A; =: 8?<<I (BK=(09@EG=@(OK?87A6(

+K=(9E7J ?<=R; =: B?B8E9(FE7(?9(=9@EG=@(: K?87(8A(BE(: DC&AK(\)]^(  
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?7=(F<=R8C<=1(CDB(BK=(=R; =: B?B8E9(J DAB(C=(BK?B(GK8: K(8A(=R; =: B=@(?B(  
BK=(K8MK=AB(<=L=<A(EF(BK=(; 7EF=AA8E96(2?; =7A(AKED<@C=(M8L=9(  
9?B8E9?<<I (?9@89B=79?B8E9?<<I (S?<<CI (89L8B?B8E9T(?B<=?AB^(E7(J E7=(  
B&J =A(; =7(I=?7Y()B(8A(@8FF8: D&B(BE(PD?9B8FI (BK8A(C=: ?DA=(89(?M8L=9(I=?7(  
?9(=9@EG=@(: K?87(J ?I (: 7E@D: =[\_]` (?7B8: <=A(?9@(M8L=(` ]Va(; ?; =7A1(  
GK8<=(89(?9EBK=7(I=?71(E9=(89(GK8: K(BK=(F?: D&BI (J =J C=7(8A(G78B89M(K8A(  
E7(K=7(C(EEH1(J ?I (A==(: E9A8@=7?C<I (<=AA6(+K=(CEBBEJ (&89=(8A(BK8A<  
; DC&: ?B8E9A(?B(BK=(K8MK=AB(<=L=<6(\*KED<@BK=7=(C=(?((: E9A8@=7?C<=  
@7E; (EFF(EL=7(BK=(; ED7A=(EF(?F=G(I=?7A1(BK=91(D; E9(BK=(7=L8=G(EF(BK=(  
=9@EG=@(: K?87bA(?; ; E89BJ =9B1(B=7J 89?B8E9(EF(BK=(; E9B7?: B(J ?I (C=(89(  
E7@=76(

W6 #=MD<?7(/D<<+&J =(/?: D&BI1(+=9D7=@(?9@(+=9D7=(+7?: H1(&AA8AB?9B1(  
&AAE: 8?B=(?9@(/D<<27EF=AAE7A>(BK=(; 789: 8; ?<7E<=(EF(FD<<(B&J =(F?: D&BI (  
?B(?<<?79HA(8A(BE(@E(7=A=?7: K(?9@(; DC&AK(89?(J ?99=7(  
: E J J =9AD7?B=(G8BK(?9@(: E9B78CDB8L=(BE(BK=87(EC&8M?B8E9(BE(B=? : K(

?B(?<<=<L=<A(EF(BK=( : D778: D<D J 1(F7E J (89B7E@D: BE7I (: ED7A=A(BE(  
M7?@D?B=(A=J 89?7A1(@=; =9@89M(E9(BK=87(7=A=?7: K(89B=7=ABA(?9@(  
BK=87(=R; =7B8A=(?9@(BK=(9==@A(EF(BK=( ' =; ?7BJ =9B6(+K=(9E7J ?<?9@(  
=R; =: B=@(B=? : K89M(<E?@(8A(WQW1(BGE(: ED7A=A(; =7(A=J =AB=71(?B(?<<  
<=<L=<A1(?M?891(@=; =9@89M(E9(BK=87(=R; =7B8A=1(ABD@=9B(7=PD87=J =9BA(  
?B(D9@=7M7?@D?B=(?9@(M7?@D?B=(<=<L=<A6(

+K=(9E7J ?<=R; =: B?B8E9(AKED<@(7=F<=: B(BK=(7=PD87=J =9BA(FE7(B=9D7=)<  
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B=? : K89MQJ =9BE789MQ@87=: B89M1(Vae(A=7L8: =>(WT(+ =9D7=(B7?: H(?9@(  
B=9D7=@(F?: D&I>(\ae(7=A=?7: Kd(\ae(B=? : K89Md(Wae(A=7L8: =6(+K=A=(  
; =7: =9B?M=A(J ?I (EFB=9(F&D: BD?B=(@=; =9@89M(E9(7=A=?7: K(; 7EU=: BA1(  
A; =: 8?<B=? : K89M(?AA8M9 J =9BA1(J =9BE789M(=B: 61(?9@ (=RB=9A8L=(A=7L8: =(  
: EJ J 8BJ =9BA6(+K=(; =7: =9B?M=A1(BK=7=FE7=1(?7=(?; ; 7ER&J ?B=1(9EB(  
@=B=7J 89?B=6(  
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AB?9@?7@(\a]\a]Wa(?99D?<GE7H<E?@(?7=(=R; =: B=@(BE(B=? : K(?WQW(<E?@1(  
G8BK(=? : K(: ED7A=(7EDMK<I (: ED9B89M(?; ; 7ER&J ?B=<I (Vae(EF(E9=bA(?99D?<  
=FFE7B6(&&BKEDMK(AEJ =(: ED7A=A(7=PD87=(J E7=(=FFE7B(BE(; 7=; ?7=1(M7?@=1(  
=B: 6(BK?9(EBK=7A1(E9=( : ?9(7EDMK<I (BK89H(EF(GK?B(E9=(GED<@A; =9@(E9(?9(  
?L=7?M=( : ED7A=1(J D&8; <I (BK?B(CI (FED7(?9@89: <D@=(E9=bA(J =9BE789M]]]]  
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G8BK(=? : K(: ED7A=(7EDMK<I (: ED9B89M(?; ; 7ER&J ?B=<I (Vae(EF(E9=bA(?99D?<  
=FFE7B6(&&BKEDMK(AEJ =(: ED7A=A(7=PD87=(J E7=(=FFE7B(BE(; 7=; ?7=1(M7?@=1(  
=B: 6(BK?9(EBK=7A1(E9=( : ?9(7EDMK<I (BK89H(EF(GK?B(E9=(GED<@A; =9@(E9(?9(  
?L=7?M=( : ED7A=1(J D&8; <I (BK?B(CI (FED7(?9@89: <D@=(E9=bA(J =9BE789M]]]]  
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/?: DBI (OED9: &S27=A8@=9BT1(27=A8@=9B(EF(BK=(\*=9?B=(E7( =L=9(?B(B&J =A(J =J C=7AK8; (89(BK=(OR=: DB8L=(OED9: &(EF( BK=(\*=9?B=1(A; =: 8?<?@(KE: (: EJ J 8BB==A(AD: K(?A(BK=( - 98L=7A8BI (ND@8: 8?<3=?789M(OEJ J 8BB==1(- 98L=7A8BI (B?AH( FE7: =A(E7(: EJ J 8BB==A(=B: 6(" BK=7A(J 8MKB(C=( J =J C=7AK8; (E9(?@L8AE7I (CE?7@Ad(FE7(=R?J ; <=>(O=9B=7( FE7(3=?&K(O?7=(OBK8: A1(&F78: ?9(&J =78: ?9(\*BD@8=A1( ! EJ =9(?9@(g=9@=7(\*BD@8=A1(27=]%?G(27EM7?J 1( O?BKE&: (\*BD@8=A1(=B: 6(+K=A=( : EJ J 8BJ =9BA(L?7I (89(B&J =( ?9@(GE7H(?9@(BKDA(BK=(9==@(FE7(: ED7A=(7=@D: B8E9(8A( 7=<?B8L=(BE(BK=(B&J =QGE7H(BK=A=( : EJ J 8BJ =9BA(@=J J J ETQq. 240

J E9EM7?; K(?<7=?@I(D9@=7(: E9B7?: B(CI(?J ?UE7(; 7=AA6(  
g8L=9?(E9=]: ED7A=(7=@D: B8E91(BK=(F?: D<BI(J =J C=7(J ?I(  
J E7=(=R; =@8B8EDA<I(F898AK(BK=(J E9EM7?; K(E7(7=?@I(8B(  
FE7(F89?<; DC<8: ?B8E96(+K8A(8A(9=MEB8?B=@(G8BK(BK=(OK?87(



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