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

12*'/(&32(4,50'#36(40&"3,367(8#''060(#5

12 9,3,%/"&/,#37(: 3,;0"%,/<(8#''060

=>?@A@BA>C?	G,',/&"<(H0";,-0(803/0"(H/*203/(H*$$#"/	10%	DE7BBF(	DC(	DE7BBF(	DE7BBF(
J>?C@F@A>@E	8&"(L⫿(!0"N,3%(O"&3/(P I(?A	=#	D@K7@@C(	DC(	D@K7@@C(	D@K7@@C(
	12 9,3,%/"&/,#37(: 3,;0"%,/<(8#''060Ɋ		@⫿CC		DA@7FFF(
	12*'/(&32(4,50'#36(40&"3,367(8#''060(#5Ɋ		@⫿CC		DA@7FFF(

R*%,30%%($33#;&/,#37(8#''060(#5

12 9,3,%/"&/,#37(8#''060(#5(R*%,30%%($33#;&/,#37(&/,#3

| =>?@AT@?>C? | UV,#(W#"N5#"-0(1 - -0'0"&/#"(=0/X#"N | =# | DK?A7?CC(| DKA7FYK(| DKYT7KYK(| DEE7KEB(|

Z2*-&/,#3(>(^0&'/V(H-,03-0(_(^*9&3(H0";,-07(`*2,/V(^0"+(8#''060(#5

12 9,3,%/"&/,#37(^H^H>`^8UZ

J>?@@YTC>C@	P I?@(_(?A(.0-V(!"0$(H*$$#"/	=#	DE?7@B@(	D@7?F?(	DEA7E@A(	DEA7E@A(
H>?@CBEE>C?>H?	§9$"#;,36(H.ZG(!"0$&"&/,#3[(1(4#36(.0"9(§3;0%/903/(>(L,%-#;0"<(H.ZG(.0&-V0"(!"0$&"&/,#3	=#	DKC7YCC(	DC(	DKC7YCC(	DKC7YCC(
		12 9,3,%/"&/,#37(^H^H>`^8UZ◊		A‖AC		D?7ETF7TYK(

8",9,3&'(`*%/,-0(&32(H#-,&'(W#"N

8>?CYTKB>CB	W#"N5#"-0(L0;0'#$903/	=#	D?@A7@BC(	DC(	D?@A7@BC(	D?@A7@BC(
=>?@AAAK>C?	.#'02#(8#99*3,/<(§3,/,&/,;0(/#(J02*-0(](,#'03-0(\.8§J]◊	=#	DBA7@@Y(	DC(	DBA7@@Y(	DBA7@@Y(
		8",9,3&'(`*%/,-0(&32(H#-,&'(W#"N◊		@‖CC		D?FT7EFY(

8*"",-*'*9(&32(§3%/"*-/,#37(L0$&"/903/(#5

8>?CTA?E>?E	8.Z(.0&-V0"(!"0$&"&/,#3(&32(J0/03/,#3	=#	DFA7AAA(	DA7TTF(	DFF7CCC(	DFF7CCC(
8>?@?E?Y>CA	81JZZJ[((.0&-V,36(!"&-/,-0%(.V&/(H*$$#"/(P"&-/,#3>R&%02(1'6#",/V9,-((.V,3N,36	=#	DTT7FKE(	D@Y7@CA(	DYB7YKF(	DYB7YKF(

Z2*-&/,#3(>(^0&'/V(H-,03-0(_(^*9&3(H0";,-07(`*2,/V(^0"+(8#''060(#5

8*"",-*'*9(&32(§3%/"*-/,#37(L0$&"/903/(#5

=>?@AEBA>C?	W##2"#X(W,'%#3(P0''#X%V,$(H-V#'&"%V,$%	=#	D@7AFK7FBC(	DC(	D@7AFK7FBC(	D?7TTB7?@B(
=>?@ABKB>C?	P"#9(a*%-VX&3/b(/#(aX&3b&&(!&"N[((:%,36(§99,6"&3/(^,%/#"<(_(8*'/*"0(5#"(8*'/*"&"<(J0'0;&3/(!02&6#6<(,3(H.ZGG	=#	D?T7CCC(	DC(	D?T7CCC(	

8*"",-*'*9(&32(§3%/"*-/,#37(L0$&"/90	@MFC	D?7KAK7??@(

Z&"'<(8V,'2V##27(!V<%,-&'7(&32(H$0-,&'(Z2*-&/,#3

8>?@@TBT>C@	.V0(!1J.=ZJ(!"#c0-/	=#	D?AY7AK?(	D?C7T?Y(	D?BC7CCC(	D?BC7CCC(
8>?@@KYE>C@	."&3%,/,#3(!"#6"&9%(5#"(H/*203/%(X,/V(§3/0"0-/*&'(L,%&+,',/,0%(,3/#(^,6V0"(Z2*-&/,#3(\.U!HQ	=#	D?A7KKY(	D?7????(	D?B7CCC(	D?B7CCC(

Z2*-&/,#3(>(^0&'/V(H-,03-0(_(^*9&3(H0";,-07(`*2,/V(^0"+(8#''060(#5

_____ _____ _____ _____

Z2*-&/,#3&'(P#*32&/,#3%(&32(40&20"%V,$

| =>?@ABKB>C? | P"#9(a*%-VX&3/b(/#(aX&3b&&(!&"N[((:%,36(§99,6"&3/(^,%/#"<(_(8*'/*"0(5#"(8*'/*"&"<(J0'0;&3/(!02&6#6<(,3(H.ZGG | =# | D?T7CCC(| DC(| D?T7CCC(| DT7ECC(|

| | | | | | | |

| | Z2*-&/,#3&'(P#*32&/,#3%(&32(40&20"% | | ClIEC | | DT7ECC(|

^0&'/V(&32(J0-"0&/,#3(!"#50%%,#3%

| =>?@A@@T>C? | `*%/(1%N(8&9$&,63 | =# | D?7CCC(| DC(| D?7CCC(| D?7CCC(|

| | | | | | | |

| =>?@ABKY>C? | !&"/30"%(,3(^0&'/V(Ze*,/< | =# | D@K7BF?(| D?7E@Y(| DAC7CCC(| DAC7CCC(|

| | | | | | | |

Z2*-&/,#3(>(^0&'/V(H-,03-0(_(^*9&3(H0";,-07(`*2,/V(^0"+(8#''060(#5

=>?@A?Y?>C?	L,%-#;0",36(/V0(4,9,/%(#5(&(`*9$>4&32,36(P002+&-N($3/0";03/,#3	=#	D?7CCC(	DC(	D?7CCC(
=>?@AEFE>C?	O"&2*&/0(H/*2,0%(8#3%#"/,*9(5#"(4,%/03,36(&32(H$#N03(4&36*&60(\OH84H4◊	=#	DKF7AKC(	DA7T@C(	DY?7CCC(	DY?7CCC(

		J0V&+,',/&/,#3(H-,03-0%◊	?◊CC	DY?7CCC(
		Z2*-&/,#3(>(^0&'/V(H-,03-0(_(^*9&3(H0";	@@◊YC	DA7KYB7@AT(

Z36,300",367(8#''060(#5

R,#036,300",367(L0$&"/9 03/(#5

=>?@ECYC>C?	!P§[((1§J(.0-V3#'#6<(."&3%'&/,#3(>(1(G,-"#X&;0(1%%,%/02(R,#9,90/,-(8#&/,36(.0-V3#'#6<(5#"(!#'<9 0"(§9 $'&3/%	=#	D?CA7CYA(	DET7YCF(	D?BC7CCC(	D?B7CCC(
H>?@C?B?>C@>H?	G*'/,>5&-0/02					DKT7FK@(

Z36,300",367(8#''060(#5

|						
=>?@A?TB>C?	!'&%9#3,-(R&%02(R,#9&"N0"(H-&',36(.0-V3#'#6<(\:3,;0"%,/<(.0-V3#'#6<(]&',2&/,#3(_(H/&"/>*$(P*32Q	=#	DBC7CCC(	DC(	DBC7CCC(	D@C7CCC(
=>?@A?FA>C?	HZ!(8#''&+#"&/,;0[((1'N&',$V,',-(9,-"#&'6&0>+&%02(%*%/&,3&+'0(_(%-&'&+'0($"#-0%%0%(5#"("030X&+'0(5*0'%(&32($"#2*-/%	=#	DBYE7BCC(	D@FC7BCC(	DKTB7CCC(	DTY@7CCC(
=>?@A?FF>C?	H,9*'/&30#*%(S%#90",b&/,#3(&32(J0&-/,;0(Zd/"&-/,#3(#5(R,#9&%%(H*6&"%(5#"(^,6V(I,0'2(!"#2*-/,#3(#5(a0/#30(H*6&"%	=#	D@?@7FA?(	DYT7FYA(	DACY7B@E(	D?BE7FT@(
=>?@A@CA>C?	H/*203/(."&;0'(H*$$#"/(5#"(/V0(@C?@(=#"/V(190",-&3(G09+"&30(H#-,0/<(G00/,36	=#	D?C7CCC(	DC(	D?C7CCC(	D?C7CCC(
=>?@AACK>C?	S3/06"&/,#3(#5(=*/",03/(&32(W&/0"(J0-<-',36(5#"(H*%/&,3&+'0(1'6&'(R,#"05,30",0%	=#	D?7EK?7AFT(	D@EY7?K@(	D?7FAC7BBK(	D?7FAC7BBK(
=>?@AE?C>C?	8V&"&-/0",b&/,#3(#5(O'&%%(!"#$0"/,0%	=#	D@KC7KAE(	DAE7?TT(	DA?B7CCC(	DA?B7CCC(
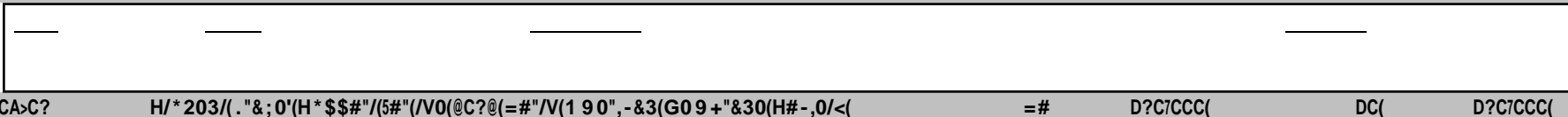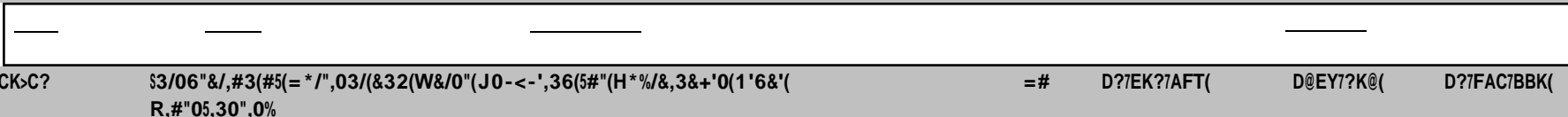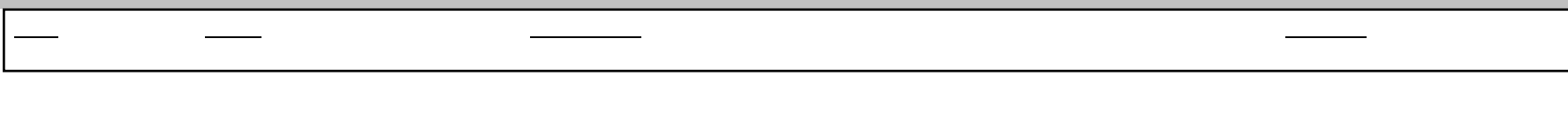
Z36,300",367(8#''060(#5

=>?@AB@K>C?	U$/,9,b&/,#3(#5(!"#/0,3(8"<%/&'(O"#X/V(5#"(L0/0"9,3&/,#3(#5(Z3b<90(G0-V&3,%9%(/V"#*6V(12;&3-02(L,55"&-/,#3(.0-V3,e*0%	=#	D?TC7CCC(	DEC7CCC(	D@CC7CCC(	DBC7CCC(
=>?@ABEC>C?	$3/0"3&/,#3&'(8#''&+#"&/,;0(J0%0&"-V[(L0%&',3&/,#3(5#"(O'#+&'(W&/0"(J0%#*"-0%(*%,36(R,#5#*',36>J0%,%/&3/(=&3#-#9$#/0(G09+"&30%	=#	D@@7TFY(	D?C7A?Y(	DA@7YYK(	DA@7YYK(
=>?@AF?Y>C?	^,6V>!0"5#"9&3-0(R,#'#6,-&''<($3%$,"02(G09+"&30%(5#"(W&/0"(."0&/903/	=#	DAE7YBY(	DC(	DAE7YBY(	DAE7YBY(
=>?@AYEC>C?	Z1OZJ[(1(=#;0'(1$$"#&-V(/#(P&+",-&/0(R,#9,90/,-(G09+"&30%(Z9+02202(X,/V(1e*&$#",3g	=#	DEF7@C@(	D@?7EFF(	DTK7TFY(	DTK7TFY(
=>?@ECFE>C?	O&%(H0$&"&/,#3(!"#-0%%(H,9*'&/,#3[((^#"'##"#"#'(G09+"&30(O&%(H0$&"&/,#3	=#	D?@7FBC(	DB7KC?(	D?K7BB?(	D?K7BB?(
H>?@@KYF>C@>H?	=&/,#3&'(."&3%,/J0%0&"-V(8#3#%#"/,*9('02(+<(/V0(G,30/&&3%$#"/,#3($3%/,/*/0	=#	DFE7?C@(	D@@7YF@(	DYF7CFE(	DEA7TKA(

| ??IKB | DA7BEB7?EB(

Z36,300",367(8#''060(#5

8>?@CCF?>CB	O"&2*&/0(.0&-V,36(P0''#X%(,3(H.ZG(^,6V(H-V##'(Z2*-&/,#3[((13(Z3;,"#3 9 03/&'(H-,03-0(40&"3,36(8#9 9 *3,/<(&/(/V0(4&32>4&N0(Z-#%<%/0 9 (§3/0"5&-0	=#	DEBE7KY?(	DAK7C?@(	DEY@7YCA(	DTE7CFF(
8>?@@FYT>C@	L0;0'#$ 9 03/(#5(."&3%$#"/&/,#3(1%%0/(G&3&60 9 03/(L0-,%,#3(H*$$#"/(.##'%	=#	DBT7BFA(	D?Y7?TB(	DFB7FAK(	DFB7FAK(
8>?@@KYF>C@	=&/,#3&'(."&3%,/(J0%0&"-V(8#3%#"/,* 9 ('02(+<(/V0(G,30&(."&3%$#"/&/,#3(§3%/,/*/0	=#	DAB7ATK(	D?C7YTE(	DET7AA@(	D@B7EKA(
=>?@AC@Y>C?	8P§JZ>:.8(J0-#9 $0/,/,#3	=#	DTK7F@Y(	DA?7@F?(	D?CC7CCC(	D?C7CCC(
=>?@ACFT>C?	HZ!\[(Z&"/V>&+*32&3/(%#'&"(-0''%(&%(&(%*%/&,3&+'0(%#'&"(030"6<($&/VX&<	=#	D?7ACF7F?Y(	DBY@7@K@(	D?7YCC7CC?(	D@KB7CCC(
=>?@A?KT>C?	8#''&+#"&/,;0(J0%0&"-V(V[((13&'<%,%(#5(L0-03/,"&',b02(^&";0%/02(J&,3X&/0"(H<%/0 9 %(*%,36(/V0(:"+&3(W&/0"(§35"&%/"*-/*"0(H*%/&,3&+,',/<(Z;&'*&/,#3(*W§HZ@(P"&9 0X#"N	=#	D??B7KAC(	DB@7FCE(	D?TK7BAE(	D?TK7BAE(

Z36,300",367(8#''060(#5

=>?@A@CE>C?	: 320"%/&32,36(/V0(J#'0(#5(R,#5,'9(#3(L,%,350-/,#3(R<>!"#2*-/(P#"9&/,#3(&32(P&/0(,3(/V0(W&/0"(L,%/",+*/,#3(H<%/09	=#	DFB7FK?(	DAE7EKC(	D??C7@T?(	D??C7@T?(
=>?@A@KF>C?	4:8>@>?TK@(13/V#3<(W&<30(R",260(G&,3(8&+'0(4#36(.0"9(^0&'/V(G#3,/#",36	=#	DA?7AF@(	DT7TBE(	DAK7C@T(	DAK7C@T(
=>?@AAC?>C?	Z;&'*&/,#3(#5(H*$$#"/(§3%$0-/,#3(!"#6"&9				D?TY7?CF(	D?TY7?CF(

Z36,300",367(8#''060(#5

=>?@AKFF>C?	!V&%0(§(1-/,;,/,0%(H*$$#"/,36(!#"/(G&33(R",260(H/&<(8&+'0(§-0(!"0;03/,#3(&32(J09#;&'	=#	D??C7ETA(	D?Y7BKA(	D?AC7CET(	DBK7B@?(
=>?@AKYB>C?	P0&%,+,',/<(H/*2<(#3(L,%,350-/,#3(R<>$"#2*-/(G#3,/#",36(H03%#"(5#"(L",3N,36(W&/0"(."0&/903/(H<%/09%	=#	D?@7ET@(	DC(	D?@7ET@(	D?@7ET@(
J>?CB@@F>?K	J&2#3(W0+(H,/0	=#	DAC7CCC(	DC(	DAC7CCC(	DAC7CCC(
J>?CTFAT>?A	.V0(:3,;0"%,/<(#5(.#'02#(!#"'*/,#3(!"0;03/,#3,#3(O"&3/(!"#$#%&'	=#	DFA7FB?(	D@A7@FC(	DYF7C@?(	DFF7T?F(
J>?CKYK@>?@	Z36,300",36(5#"(G,6"&3/(H/*203%/(&32(.0&-V0"%	=#	DAK7CYK(	D?7YCB(	DEC7CCA(	DEC7CCA(
J>??C?AB>CA	!V&%0(]§(>(!&;09 03/(G&3&60903/(§35#"9&/,#3(H<%/09	=#	DTT7K@B(	DT7TKA(	DFA7BCK(	DFA7BCK(
H>?@??A?>C?>HA	.V0(J#'0(#5(Zd/"&-0"'*'&"(!#'<90",-(H*+%/&3-0%(#5(R,#5,'9(#3(!#&/V(&/V/&-/903/(L,%,350-/,#3(,3(3(W&/0"(L,%/",+*/,#3(H<%/09%	=#	DB7CCC(	D?7CCC(	DT7CCC(	DT7CCC(

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8,;,'(Z36,300",367(L0$&"/9 03/(#5

H>?@??A?>C?>HE	. V0(J#'0(#5(Zd/"&-0''*'&"(!#'<9 0",-(H*+%/&3-0%(#5(R,#5,'9(#3(!&/V#603(L,%,350-/,#3(,3(W&/0"(L,%/",+*/,#3(H<%/09%	=#	D?7AFE(	DT@B(	D?7YYY(	D?7YYY(
H>?@?BBE>C@>H?	$-0(!"0;03/,#3(#"(J09#;&'(#3(/V0(]0/0"&3h%(O'&%%(8,/<(HN<X&<(8&+'0%	=#	DK7?@F(	DTAY(	DK7FTT(	DK7FTT(
H>?@@FYT>C0>H?	L0;0'#$9 03/(#5(."&3%$#"/&/,#3(1%%0/(G&3&60 9 03/(L0-,%,#3(H*$$#"/(.##'%	=#	D@F?7?AF(	DFT7BEB(	DAEF7TK@(	D@TC7FT@(
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H>?@A@CE>C?>H?	: 320"%/&32,36(/V0(J#'0(#5(R,#5,'9 (#3(L,%,350-/,#3(#3(R<>!"#2*-/(P#"9 &/,#3(&32(P&/0(,3(/V0(W&/0"(L,%/",+*/,#3(H<%/09	=#	DT7CCC(	DC(	DT7CCC(	DT7CCC(
		8,;,'(Z36,300",367(L0$&"/9 03/(#5Q	@?NAK	D@7EBE7CEK(

Z'0-/",-&'(Z36,300",36(&32(8#9 $*/0"(H-,03-07(L0$&"/9 03/(#5

8>?@?FT@>CA	J0&'>.,9 0(8#9 +&/(=&;,6&/,#3(H<%/09 (&32(],"/*&'(R&//'0%$&-0	=#	DBA7TYF(	D@E7EA@(	DFK7?@Y(	DFK7?@Y(
8>?@@EYA>C@	8#''&+#"&/,;0(J0%0&"-V>V[($3/06"&/02(]*'30"&+,',/<>J0',&+,',/<(G#20',36(&32(13&'<%,%(#5(8<+0"0>$V<%,-&'(H<%/09%(!#X0"(H<%/09%	=#	DYA7CF?(	DE@7AEF(	D?AB7E?K(	D?AB7E?K(

Z'0-/",-&'(Z36,300",36(&32(8#9 $*/0"(H-,03-07(L0$&"/ 9 03/(#5

=>?@A?TC>C?

Z'0-/",-&'(Z36,300",36(&32(8#9 $*/0"(H-,03-07(L0$&"/ 9 03/(#5

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G0-V&3,-&'7($32*%/",&'7(&32(G&3*5&-/*",36(Z36,300",367(L0$&"/903/(#5

8>??YY??>CT	.*"+#9&-V,30"<(8#9$*/&/,#3&'(10"#>1-#*%/,-%(\8110	=#	DAF7?CC(	DY7TET(	DET7FET(	DET7FET(
8>??YY??>CF	.*"+#9&-V,30"<(8#9$*/&/,#3&'(10"#>1-#*%/,-%(\8110	=#	DBT7K?E(	D@@7F?T(	DFY7BAC(	DFY7BAC(
8>??YYEC>CA	L0;0'#$903/(#5(4,50(!"02,-/,#3(&32(!"#+&+,',%/,-(13&'<%,%(.##'%(5#"(^,6V(.09$0"&/*"0(8#9$#%,/0%		D?KA7YTF(		D@@@7AE@(	D@@@7AE@(

Z36,300",367(8#''060(#5

G0-V&3,-&'7($32*%/",&'7(&32(G&3*5&-/*",36(Z36,300",367(L0$&"/9 03/(#5

8>??YYK@>C@	1(W#"N$'&3(5#"(.0%/,36(10"#%$&-0(8#9 $#303/%(&32(12;&3-02(G&/0",&'%	I0%	D?YC7KTT(	DKT7KEE(	D@FF7F??(D@FF7F??(
8>??YYKE>C@	H9&"/(L&9$,36(5#"(.*"+#9&-V,30"<(R'&20%	I0%	DFC7?FY(	DA?7YA@(	D?C@7???(D?C@7???(
8>?@?Y@K>CA	P&/,6*0(R0V&;,#"(&32(G#20',36(#5(!#'<90",-(G&/0",&'%	=#	D??T7FAB(	DBA7??E(	D?TY7KEY(D?TY7KEY(
8>?@AE@E>C@	$3>V#*%0(12;&3-02(H/,"',36(J0%0&"-V(&32(L0;0'#$&#$#9 03/	=#	D?A7AYT(	DA7EKA(	D?T7KFY(D?T7KFY(
=>??YYE?>C?	L0;0'#$&9 03/(#5(8#9$*/02(.#9#6"&$V<(&32(L,6,/&'(J&2,#6"&$V<(5#"(10"#%$&-0(G&/0",&'%(&32(P&-,',/,0%(U$0"&/,#3%	I0%	DYA7BTY(	DE?7?FC(	D?AE7FAY(D?AE7FAY(
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G0-V&3,-&'7($32*%/",&'7(&32(G&3*5&-/*",36(Z36,300",367(L0$&"/903/(#5

=>?@AEAC>C?	: J1=H(8&'-*'&/,#3%(/#(H*$$#"/(=1H1(HJW>]H!.	=#	D?B7TB@(	DA7@BB(	D?K7YCF(	D?K7YCF(
=>?@AEFF>C?	GB@B(GJ(^#;0"(8&$&+,',/,0%(J,%N(J02*-/,#3	=#	DAE7ATB(	D?B7TAB(	DBC7CCC(	DBC7CCC(
=>?@ABCC>C?	1,"5"&90(4,5/(&32(L"&6(U$/,9,b&/,#3	=#	DAE7ATE(	D?B7ATA(	DEY7F@F(	DEY7F@F(
=>?@ABAC>C?	H/"036/V03,36(#5(O'&%%(1"/,-'0%	=#	DKB7?A?(	DAK7FAB(	D?@A7KTT(	D?@A7KTT(
=>?@ABFF>C?	!G.(.V"#9+0-/#9<(L0;,-0	=#	DBC7CCC(	DC(	DBC7CCC(	DEC7CCC(

Z36,300",367(8#''060(#5

G0-V&3,-&'7(§32*%/",&'7(&32(G&3*5&-/*",36(Z36,300",367(L0$&"/ 03/(#5

=>?@AT?C>C?	G0-V&3,-&'(R0V&;,#"(#5(!#'< 9 0"%(&/(L,550"03/(.0 9 $0"&/*"0%		=#	D?TK7AKB(	DFT7T?B(	D@EB7CCC(	D@EB7CCC(

Z36,300",367(8#''060(#5

G0-V&3,-&'7(§32*%/",&'7(&32(G&3*5&-/*",36(Z36,300",367(L0$&"/ 9 03/(#5

H>?@AFTE>C?>H?	OT(P'<XV00'(R0&",36(L0%,63(&32(13&'<%,%	=#	D?Y7E@B(	DE7?EC(	D@A7BTB(	D@A7BTB(

4&36*&60%7(4,/0"&/*"0(&32(H#-,&'(H-,03-0%7(8#''060(#5

P#"0,63(4&36*&60%7(L0$&"/903/(#5

| =>?@ATBT>C? | H.1J.14a(8^Z4ZJ(!"#6"&9(5#"(8V,30%0(V0",/&60(%-V##'(/0&-V0"%(&32(&29,3,%/"&/#"% | =# | DFY7AFF(| D?Y7KEE(| DYY7@@?(| DYY7@@?(|
| H>??YY@C>CF>H? | H/*203/(.0&-V0"(1%%,%/&3/% | =# | D@7KT?(| D@KT(| DA7?EF(| DA7?EF(|

| | | | | P#"0,63(4&36*&60%7(L0$&"/903/(#5Q | AllCC | | D?CF7K?A(|

O0#6"&$V<(&32(!'&33,367(L0$&"/903/(#5

8>?@CCF?>CB	O"&2*&/0(.0&-V,36(P0''#"#X%(,3(H.ZG(^,6V(H-V##'(Z2*-&/,#3[((13(Z3;,"#3(903/&'(H-,03-0(40&"3,36(8#9 9*3,/<(&/(/V0(4&32>4&N0(Z-#%<%/09($3/0"5&-0	=#	DEBE7KY?(	DAK7C?@(	DEY@7YCA(	DBY7?EK(
8>?@CT@K>CB	13&'<b,36(J06,#3&'(P"0,6V/($35#"9&/,#3(J0%#*"-0%	=#	DTK7F@Y(	DA?7@F@(	D?CC7CC?(	DFC7CC?(
=>?@@FEC>C?	13&'<%,%(#5(."&3%,/(."&;0'(L09&32(8V&360(,3(:llH(G0/"#$#',/&3(H/&/,%,-&'(1"0&%(R0/X003(@CCC(&32(@C?C(:%,36(.X#>H/&60(40&%/(He*&"0%(J06"0%%,#3	=#	DAB7KTY(	DK?7TC(	DEE7C@Y(	DEE7C@Y(
=>?@AC@Y>C?	8PSJZ>:.8(J0-#9 9$0/,/,#3	=#	DTK7F@Y(	DA?7@F?(	D?CC7CCC(	DYC7CCC(

4&36*&60%⁊(4,/0"&/*"0(&32(H#-,&'(H-,03-0%⁊(8#''060(#5

=>?@AA?K>C?	L0;0'#$9 03/(#5(G0/V#2#'#6<(5#"(O030"&/,36(L,%/&3-0(&32(8#9 9 #2,/<(P'#X(.&+'0%(,3/#(&32(/V"#*6V(/V0(O"0&/(4&N0%(R&%,3	=#	DYB7?TA(	D@K7BEY(	D?@A7F?@(	D?@A7F?@(
H>?@??@E>C?>H?	4Z1LZJH[(40&20"%V,$(5#"(Z2*-&/#"%[(1-&209<(5#"(L",;,36(Z-#3#9,-(J0;,/&',b&/,#3(,3(H-,03-0	=#	DB?7YAT(	DT7ACK(	DBK7@EE(	DBK7@EE(
H>?@AC@Y>C?>H?	G&N,36(P"0,6V/>803/",-(8#9 9 *3,/0%(G#"0(4,;&+'0[(G0&%*",36(/V0(§9 $&-/(#5(12;&3-02(.0-V3#'#6,0%	=#	DE?7@AF(	D?K7FTA(	DTC7CCC(	DE@7CCC(
H>?@AC@Y>C?>H@	G,3,36(1*/#9 9 &/,-($203/,5,-&/,#3(#3(H<%/09 (\1§HQ(L&/&(5#"(§9 $"#;02(]0%%0'(.",$(13&'<%,%(8&$$&+,'/,0%	=#	DBE7YKA(	D@B7C?F(	DKC7CCC(	DBT7CCC(
	O0#6"&$V<(&32(!'&33,36⁊(L0$&"/9 03/(		TⅡ?@		DBEA7?AE(

| =>?@ABKB>C? | P"#9 (a*%-VX&3/b(/#(a X&3b&&(!&"N[((:%,36(§9 9 ,6"&3/(^,%/#"<(_(8*'/*"0(5#"(8*'/*"&"<(J0'0;&3/(!02&6#6<(,3(H.ZGG | =# | D?T7CCC(| DC(| D?T7CCC(| DA7@CC(|
| | ^,%/#"<⁊(L0$&"/9 03/(#5Q | | CⅡ@C | | DA7@CC(|

4&36*&60%7(4,/0"&/*"0(&32(H#-,&'(H-,03-0%7(8#''060(#5

=>?@@Y?C>C?>1?	4#36,/*2,3&'(GJS(%/*2<(#5(!.HL(20;0'#$903/(5"#9(2&<%(/#(X00N%(&5/0"(/"&*9&	=#	D?BT7BBK(	DFF7YTT(	D@AE7B@E(	DC(
=>?@AEBC>C?	1603-<7(8V#,-07(&32(!'&-0+#(Zd$0-/&/,#3(Z550-/%	=#	D@7CCC(	DC(	D@7CCC(	D@7CCC(
		!%<-V#'#6<7(L0$&"/903/(#5Q	?IICC		D@7CCC(

H#-,#'#6<(&32(13/V"#$#'#6<7(L0$&"/903/(#5

=>?@ABKB>C?	P"#9(a*%-VX&3/b(/#(aX&3b&&(!&"N[((:%,36(§99,6"&3/(^,%/#"<(_(8*'/*"0(5#"(8*'/*"&"<(J0'0;&3/(!02&6#6<(,3(H.ZGG	=#	D?T7CCC(	DC(	D?T7CCC(	DA7@CC(
	H#-,#'#6<(&32(13/V"#$#'#6<7(L0$&"/903/(#5(9		CII@C		DA7@CC(
	4&36*&60%7(4,/0"&/*"0(&32(H#-,&'(H-,03-0%		??IIF@		DFYF7C?K(

G02,-,307(8#''060(#5

8>C?CAAT>?Y	1^Z8(!#,3/(#5(H0";,-0(G&,3/03&3-0(&32(Z3V&3-0903/	=#	DF?F7B@C(	D?A7KYT(	DFA?7E?T(	DFA?7E?T(
	1^Z8Q		?IICC		DFA?7E?T(

130%/V0%,#'#6<7(L0$&"/ 9 03/(#5

=>?@AYKY>C?	130%/V0%,#'#6<(50''#X%V,$		=#	D?B7CCC(	DC(	D?B7CCC(	D?B7CCC(

D?B7CCC(

R,#-V09,%/''<(_(8&3-0''(R,#'#6<7(L0$&''/903/(#5

8>?@?@YE>CE	J06*'&/,#3(#5(G0'&3#-</0(L,550''03/,&/,#3(+<(HW§fH=P(8V''#9&/,3(J09#20',36(Z3b<90%	=#	D@CF7KBY(	DYY7BAC(	DACF7AKY(	DACF7AKY(
8>?@?B@T>CE	G0-V&3,%9%(L'',;,36(8#''/,-&'(8</#%N0'0/#3(L<3&9,-%(,3(8&3-0''(80''($3;&%,#3	=#	D?KY7?YY(	DYE7@@?(	D@KA7E@C(	D@TY7@EY(
8>?@?FET>C@	=&fa>1.!&%0(J02*-/,#3(,3(J03&'(L,%0&%0>J0'&/02(8&''2,&-(L<%5*3-/,#3	=#	D@AK7CCC(	D??K7B@E(	DABT7B@E(	
8>?@ATBA>C@	L,%%0-/,36(/V0(G0-V&3,%9%(#5(.&9#3#d,503(1-/,#3	=#	D@7BCC(	D?7@EB(	DA7FEB(	DA7FEB(
=>?@@T??>C?>1?	.&''60/,36(/V0(ZJ88?fj!P(=*-'0&%0(P#''(8&3-0''(.V0''&$<	=#	DKC7CCC(	DAY7KEC(	D??Y7KEC(	D??Y7KEC(
=>?@@YK@>C?	8V09#/V0''&$0*/,-(J06*'&/,#3(#5(1*/#,99*3*3*3,/<(W,/V#*/(U;0''/(8</##d,-,/<	=#	DTA7CYB(	DT7A?C(	DTY7ECB(	

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R,#-V0 9,%/"<(_(8&3-0"(R,#'#6⊄(L0$&"/ 9 03/(#5

=>?@ABAT>C?	G0-V&3,%9%(#5(%*+/0'#9 0"0("0-#9 +,3&/,#3%(,3(/0'#9 0"&%0(205,-,03/(/* 9 #"%	D?BC7T??(	DTY7YTF(	D@@C7BFK(	D@@C7BFK(

G02(G,-"#+,#'#6<(_(§9 9 * 3#'#6<⁷(L0$&"/ 9 03/(#5

8>?@@?KB>CA	!"0-',3,-&'(L0;0'#$ 9 03/(#5(&(. *'&"0 9 ,&(]&--,30	=#	D@?T7@?@(	D?CF7TFA(	DA@A7KKB(	DA@A7KKB(
8>?@@AKK>C@	. V0("#'0(#5(30*/"#$V,'%(&32(-#9 $'0 9 03/(,3($"0;03/,36(%0$/,-(9 0',#2#%,%	=#	DEB7CCC(	DC(	DEB7CCC(	DEB7CCC(
8>?@@EEE>C@	. J!8A(!"#/0,3(,3(G#'0-*'&"(&32(80''*'&"(Z;03/%(L*",36(1/V0"#6030%,%	=#	D@AK7CCC(	D??K7B@E(	DABT7B@E(	
8>?@@B?T>C@	RⅡ(+*"62#"50",(9 #/,',/<(&32(-V0 9 #/&d,%,,3(/V0(20;0'#$ 9 03/(#5(4<9 0(2,%0&%0	=#	DTF7ECT(	DAA7BTK(	D?CC7YFE(	D?CC7YFE(
8>?@@F@?>C@	1 9 0",-&3(H#-,0/<(5#"(],"#'#6<(G00/,36	=#	D?B7CCC(	DC(	D?B7CCC(	D?B7CCC(
=>?C?ECY>C?	H0-"0/&",&'(O"&3/(1--#*3/	I0%	D?CY7KYB(	DC(	D?CY7KYB(	D?CY7KYB(
=>?@ACY?>C?	$3/0"&-/,#3(#5(!"#$0"2,3(X,/V(!'&/0'0/%[(J#'0(,3(8#9 9 $'0 9 03/(1 -/,;&/,#3(&32($35'&9 9 &/,#3	=#	DFC7CC?(	DF7CCC(	DFF7CC?(	DFF7CC?(

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=>?@AB@Y>C?	J#'0(#5(. J§GFY(,3(,33&/0(,9 9 *3,/<(/#(/,-N>+#"30(03-0$V&',/,%(;,"*%	=#	D?BC7CCC(	D?@7CCC(	D?T@7CCC(	D?T@7CCC(

G02(G,-"#+,#'#6<(_(§9 9 *3#'#6<⁊(L0$		YⅡCC		D?7@C?7AEF(

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8>?CCAKY>?@	J<&3(WV,/0(!&"/(8(\.,/'0(§§§Q(^§](Z&"'<(§3/0";03/,#3(H0";,-0%(\Z§HQ(!"#6"&9	=#	DEAK7?CY(	D@@7@?F(	DETC7A@T(	DETC7A@T(

| 8>?CCB@Y>CF | 8&"2,#;&%-*'&"(U*/-#9 "VQ # 113&' | | | | | D?7BY@7AYA(|

G02,-,307(L0$&"/ 9 03/(#5

8>?@CATC>CE	§9 9 *30(J0%$#3%0(/#(!30* 9 #-#--&'(]&--,30(,3(^$](§350-/02(1 2 *'/%	=#	D@AB7YFB(	D??@7BAB(	DAEK7B?C(	DAEK7B?C(
8>?@?@YE>CE	J06*'&/,#3(#5(G0'&3#-</0(L,550"03/,&/,#3(+<(HW§fH=P(8V"#9 &/,3(J09#20',36(Z3b<90%	=#	D@CF7KBY(	DYY7BAC(	DACF7AKY(	
8>?@?B@F>CE	§9 $"#;0 9 03/(,3(!&,"02(L#3&/,#3(!'"#6"&9	=#	D@E@7F@K(	DKF7@TE(	DA@Y7YY@(	
8>?@?FET>C@	=&fa>1 . !&%0(J02*-/,#3(,3(J03&'(L,%0&%0>J0'&/02(8&"2,&-(L<%5*3-/,#3	=#	D@AK7CCC(	D??K7B@E(	DABT7B@E(	DABT7B@E(
8>?@@CT@>CA	§3V0",/02(O030/,-(J,%N(P&-/#"%(8#9 9 #3(/#(8U!L(&32(4*36(8&3-0"	=#	DAEF7AA?(	D??K7?Y?(	DETB7B@@(	DETB7B@@(
8>?@@@?E>CA	J0-0$/#"#"(=&fa>1 . !&%0(13/&6#3,%/%(1%(=#;0'(.V0"&$0*/,-%(P#"(J03&'f8&"2,&-(L,%0&%0%	=#	DAK?7@K?(	D?BT7CTT(	DBAF7AEF(	

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8>?@@@BB>C@	!JU%$0-/,;0(G*'/,-03/0"($9&6,36(H/*2<(5#"(Z;&'*&/,#3(#5(8V0%/(!&,3(\!JUG§HZ(.",&'ǫ	I0%	DY7?AT(	DY?E(	D?C7CBC(	D?C7CBC(
=>?CCFFA>C?	H&50/<(&32(Z55,-&-<(#5(/V0(H.1JP'0d(H0$/&'(8'#%*"0(H<%/09(;%ⅷ(R0%/(G02,-&'(.V0"&$<(,3(!&/,03/%(X,/V(&(H/"#N0(&32f#"(."&3%,03/($%-V09,-(1//&-N(L*0(/#(&(!"0%* 902(!&"&2#d,-&'(Z9+#',%9(/V"#*6V(&(!&/,03/(P#"&903(U;&'0((\84UH:JZ(?ǫ	I0%	DAC(	DK(	DAK(	
=>?C?CB?>C?	.V0(=&/,#3&'(4<9$V#8&"0(H/*2<[((13(U+%0";&/,#3&'(H/*2<(#5(."0&/903/7(U*/-#90%(&32(!"#63#%,%(,3(!&/,03/%(X,/V(P#",-*'&"(=#3>^#26N,3ⅷ%(4<9$V#9&	I0%	DEEC(	D??C(	DBBC(	DBBC(
=>?C?CKK>C?	8&"#/,2(J0;&%-*'&",b&/,#3(Z32&"/0"0-/#9<(;%ⅷ(H/03/,36	I0%	DF7F@C(	D?7YAC(	DY7TBC(	

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=>?C?@@K>C?	8&"2,#;&%-*'&"(U*/-#9 0%(,3(J03&'(1/V0"#%-'0"#/,-(40%,#3%(\8 U J 1 4Q	l0%	D?E7@B@(	DA7BTA(	D?F7K?B(	D?F7K?B(
=>?C?A?B>C?	g,';0"(! . j(]&%-*'&"(H/03/(,3(/V0(1+#;0>/V0>a300(P0 9 #"#$#$',/0&'(1"/0"<	l0%	DF7CTC(	D?7FTB(	DK7K@B(	DK7K@B(
=>?C?AAE>C?	Z550-/(#5(H,"#', 9 *%(#3(8<%/(J06"0%%,#3(,3(J03&'(."&3%$'&3/(J0-,$,03/%(X,/V(! #'<-<%/,-(a,230<(L,%0&%0	l0%	DA@7CCC(	DK7CCC(	DEC7CCC(	DEC7CCC(
=>?C?BYK>C?	! J Z 8 SH SU=[((! "#%$0-/,;0(J&32#"9 ,b02(Z;&'*&/,#3(#5(80'0-#d,+($3/06"&/02(H&50/<(;%N($+*$"#5O3(#"(=&$"#d03MMM	l0%	DAT7?YA(	DY7CEK(	DEB7@E?(	DEB7@E?(

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=>?@CEEB>C?	13($3/0"3&/,#3&'7(G*'/,-03/0"7(!"#%$0-/,;0(U+%0";&/,#3&'(H/*2<(#5(/V0(	DFBC(
	H&50/<(#5(G&"&;,"#-(:%02(X,/V(U$/,9,b02(R&-N6"#*32(.V0"&$<(,3(	

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=>?@?BCA>C?	8#"2,%(8 I ! JZHH(.",&'(\!CY>TAC?ꞯ	I0%	DA7F@C(	DYAC(	DE7TBC(	DE7TBC(
=>?@?BAB>C?	1(!V&%0(A7(G*'/,-03/0"7(J&32#9,b027(L#*+'0>R',327(!'&-0+#>8#3/"#''02(H/*2<(/#(Z;&'*&/0(/V0(Z55,-&-<(&32(H&50/<(#5(!0"&9,;,"(12 9,3,%/0"(§3/"&;03#*%'<(,3(122,/,#3(/#(H/&32&"2(#5(8&"0,(3(12*'/%(&32(12#'0%-03/%(WV#(&"0(^#%$,/&',b02(L*0(/#(H0",#*%(§35'*03b&	I0%	DF7F@@(	DC(	DF7F@@(	DF7F@@(
=>?@?BY@>C?	1(J&32#9,b027(G*'/,-03/0"7(L#*+'0>R',327(!&"&"0'7(!'&-0+#>8#3/"#''02(H/*2<(#5(/V0(Z550-/%(#5(#5(`=`>@KEA?FBE(#3(8&"2,#;&%-*'&"(U*/-#90%(,3(12*'/(H*+c0-/%(W,/V(.<$0(@(L,&+0/0%(G0'',/*%(\.V0(81=]1H(.",&'ꞯ	I0%	DA?7@AB(	DF7KCY(	DAY7CEE(	DAY7CEE(

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=>?@@CC@>C?	13(U$03>4&+0'(Zd/03%,#3(H&50/<(.",&'(U5(!"06&+&',3(§3(H*+c0-/%(W,/V(=0*"#$&/V,-$&,3(1%%#-,&/02(W,/V(^§](=0*"#$&/V<(\!"06&+&',3(1CCK?@B?Q	I0%	D?7BFB(	DE@B(	D@7CCC(	D@7CCC(
=>?@@C??>C?	1(G*'/,-03/0"7(J&32#9,b027(1-/,;0>8#3/"#'7(!V&%0(AR(H/*2<(/#(Z;&'*&/0(/V0(8&"2,#;&%-*'&"(H&50/<(#5(P0+*d#%/&/(&32(1''#$*",3#'(,3(H*+c0-/%(X,/V(O#*'/(&32(8&"2,#;&%-*'&"'&"(8#9#"+,2,/,0%	I0%	DT7CCE(	D?7T@?(	DF7T@B(	DF7T@B(
=>?@@?FB>C?	1360'G02(5#"(Z&"'<(J0-#63,/,#3(&32(."0&/903/(#5(H.ZG§(\14ZJ.HQ(J&32#9,b02(.",&'	I0%	D?CK7FTB(	DC(	D?CK7FTB(	DBE7AKA(
=>?@@FKE>C?	1(!"#%$0-/,;07(G*'/,-03/0"7(H,36'0(R',327(J&32#9,b027(8#3/"#'702(.",&'(8#9$&",36(/V0(G#d<o(L"*6(8#8&/02(R&"##3(;%)(H/&32*7/#'02(917(@2L#0'3'&#J$C#52)+8#&+$-.) Tj 6797 0 Td ($;V$) T28 7168 Tm /a 175129 9Tj110 -1)					D?Y7EKT(

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=>?@@FKF>C?	.V0(."0&/9 03/(#5(S',&-(&32(P0 9 #"&'(1 /V0"#%-'0"#/,-(40%,#3%(: %,36(/V0(H0'5>0d$&32,36(1%/"#3(&32(1%/"#3(! *'%&"(H/03/%	I0%	DE@7FTC(	D??7BEB(	DBE7ACB(	DBE7ACB(

G02,-,30⁷(L0$&"/9 03/(#5

=>?@ACT@>C?	1(J&32#9,b027(L#*+'0>R',327(!'&-0+#(8#3/"#''027(!&"&''0'(O"#*$7(G*'/,3&/,#3&'(.",&'7(/#(1%%0%%(/V0(!"0;03/,#3(#5(.V"#9+#/,-(Z;03/%(X,/V(.,-&6"0'#"(8#9 $&"02(/#(!'&-0+#(#3(&(R&-N6"#*32(#5(1-0/<'(H&',-<',-(1-,2\1H1Q(.V0"&$<(,3(!&/,03/%(X,/V(^,%/#"<(#5(MMM	I0%	D@7FB?(	DFEA(	DA7EYE(	DA7EYE(
=>?@A?@K>C?	P0''#X%V,$($3/0";03/,#3&'(8&"2,#'#6<	=#	DA?7F@B(	DA7?FA(	DAE7KYK(	DAE7KYK(
=>?@A?AY>C?	1(!V&%0(A(G*'/,>803/0"7(J&32#9,b027(L#*+'0>R',327(!'&-0+#>8#3/"#''02(H/*2<(#5(/V0(Z550-/%(#5(U3-0(L&,'<(U"&'(L#%0%(#5(FB(9 6(1b,9,',20(L,V<2"#-V'#",20(#3(/V0($3-,203-0(#5(8&"2,#;&%-*'&"(	I0%	DT7@C?(	D?7TFE(	DF7KFB(	DF7KFB(
=>?@A?E?>C?	1(!V&%0(A7(G*'/,>803/0"7(J&32#9,b027(L#*+'0>R',327(!'&-0+#>8#3/"#''027(B@>W00N(H/*2<(/#(/#(Z;&'*&/0(/V0(Z55,-&-<(&32(H&50/<(#5(R0',9,9&+(\^OH?CCTQ(129,3,%/0"02(H*+-0-0-0-/#;&'(8&"2,#;&%-*'&"(H<%/09,-(4*$*%(Z"</V09&/#%*%(\H4ZQ	I0%	D@C7?CK(	DB7E@Y(	D@B7BAF(	D@B7BAF(
=>?@A?EE>C?	!"#%$0-/,;07("&32#9,b027($'&-0+#>-#3/"#''027(2#*+'0>',327(9*'/,-03/0"7($&"&"&"'0'(6"#*$(%/*2<(/#(#;&'*&/0(/V0(055,-&-<(&32(%&50/<(#5(R0',9,9&+(9&-,/03/&/,(3($&/,03/%(X,/V(%-V09,-&+/-&"2,&-(-#32,/,#3%(&/02(X,/V(%<%/09,-(%-'*0"#%,%	I0%	D?A7ECF(	DA7T@C(	D?F7C@F(	D?F7C@F(

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=>?@A?BK>C?	13(Z;&'*&/,#3(#5(/V0(R*"203(#5(S'"30%%(19#36(12*'/%(,3(/V0(:3,/02(H/&/0%(X,/V(!0",$V0"&'(&32(803/"&'(=0*"#$&$&/V,-(!&,3	I0%	D@7?@T(	DBFE(	D@7FCC(	D@7FCC(
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=>?@A@YY>C?	1(!V&%0(@7(!"##5>U5>8#3-0$/7(G*'/,-03/0"7(J&32#9,b027(L#*+'0>R',327(327(!'&-0+#>8#3/"#'02(H/'2<(/#(#;&'*&/0(/V0(H&50/<7(.#'0"&+,',/<7(/<7(!V&"9&-#N,30/,-%7(!V&"9&-#N,30/,-%7(-% &32(Z55,-&-<(#5(!#9&',2#9 #,20(\88>ECEFQ(,3(H*+c0-/%(X,/V(L,55*"%0(8*'/&30#*%(H<%/09,-(H-'0"#%,%(X,/V($3/0"9,/,&'(4*36(L,%0&%0	I0%	DB7A?B(	D?7EAB(	DT7FBC(	DT7FBC(

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J>?CCCEA>?A	J<&3(WV,/0(^S]f1SLH(!"#6"&9(!&"/(L(O"&3/%(5#"(8##"2,3&/02(^S](H0";,-0%(&32(1--0%%(/#(J0%0&"-V(5#"((W#9 037($35&3/%#%(8V,'2"037(&32(I#*/V(\WS8IQ	=#	DEBA7YA?(	D?C7KTA(	DETE7FYE(	DETE7FYE(
J>?C?ACA>CK	^0&'/V<(J0'&/,#3%V,$%(/V"#*6V(Zd,%/,36(H*$$#"/(O"#*$%	=#	D@A7CBC(	DC(	D@A7CBC(	D@A7CBC(
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8>?C?ECK>CT	§3%*',3(J0%,%/&3-0($3/0";03/,#3(&5/0"(H/"#N0(\$J$HQ(.",&'	10%	DY7EKA(	D@7AF?(	D??7KBE(	D???KBE(

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=>?C?A@A>C?	.V0(§9$&-/(#5(HX,/-V,36(/#(8#3/,3*#*%(J0'0&%0(L#$&9,30(16#3,%/%(#3(=#3>9#/#"(H,20(Z550-/%	10%	D?7F?B(	DE@Y(	D@7?EE(	D@7?EE(
=>?C?EEA>C?	1(G*'/,>-03/0"⁊(U$03>'&+0'⁊(4#36>/0"9⁊(H&50/<⁊(.#'0"&+,'/<(&32(Z55,-&-<(H/*2<(#5(J0/,6&+,30(,3(12*'/(Z$,'0$%<(!&/,03/%(X,/V(!&"/,&'>#'(H0,b*"0%(\Zd/03%,#3(#5(H/*2<(#5(H/*2<(H/*2<(H/*2<(H/*2<(H/*2<(H/*2<(H/*2<(#5(H/*2<(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<(#5(H/*2<	10%	D?7C?T(	D@BE(	D?7@FC(	D?7@FC(
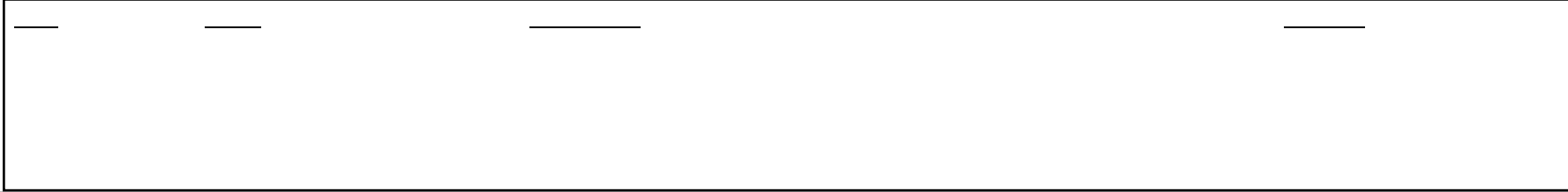
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=>??YYAC>C?	1(G*'/,-03/0"7(J&32#9,b027(L#*+'0>+',327(!'&-0+#>-#3/"#''027(B>&"97(!&"&''0'>6"#*$(.",&'(/#(1%%0%%(J#/,6#/,30(."&3%20"9&'(H<%/09(L#%0(J0%$#3%0(,3(H*+c0-/%(X,/V(12;&3-02>%/&60(!&"N,3%#3h%(L,%0&%0	I0%	DKC(	D@C(	D?CC(	D?CC(
=>?@CTCK>C?	1(?E>G#3/V(U$03>'&+0'(Zd/03%,#3(!V&%0(#5(/V0(L#*+'0>+',327(!'&-0+#>-#3/"#''027(L#%0(Z%-&'&/,#37(!&"&''0'>O"#*$(H/*2,0%(/#(Z;&'*&/0(/V0(Z55,-&-<(&32(H&50/<(#5(Z@CCF(\$0"&9$&30'Q(O,;03(&%(12c*3-/,;0(.V0"&$<(,3(H*+c0-/%(X,/V(J05"&-/#"<(!&"/,&'(H0,b*"0%	I0%	DT7YCB(	D?7F@T(	DK7TA?(	DK7TA?(
=>?@CTKT>C?	1(G*'/,>-03/0"7(U$03>'&+0'(Zd/03%,#3(H/*2<(/#(Zd&9,30(/V0(H&50/<(&32(.#'0"&+,',/<(#5(18!>?CA(,3(/V0(."0&/903/(#5(!%<-V#%,%(,3(!&"N,3%#3h%(L,%0&%0	I0%	D?A7ECY(	DA7AB@(	D?T7FT?(	D?T7FT?(
=>?@?@Y@>C?	13(U$03>4&+0'7(G*'/,>803/0"7(P#''#X>:$(H/*2<(/#(L0%,6302(/#(Z;&'*&/0(/V0(4#36>.0"9(Z550-/%(#5(J&%&6',30(,3(!&"N,3%#3h%(L,%0&%0(H*+c0-/%(WV#(!&"/,-,$&/02(,3(/V0(1L1OSU(H/*2<(▮▮▮	I0%	DA7TFE(	DY?Y(	DE7BYA(	DE7BYA(
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=>?@@CCC>C?	1(G*'/,>803/0"7(L#*+'0>+',32(!'&-0+#>R',327(J&32#9,b027(!&"&''0'>O"#*$7(!'&-0+#>-#3/"#''027(L#%0>R&367(J&32#9,b027(!&"&''0'>O"#*$(.",&'(/#(Z;&'*&/0(/V0(Z55,-&-<(&32(H&50/<(#5(Z550-/,;0(.V0"&$<(/#(J05*-0(."0&/903/>R0'&/02(L<%N,30%,&%(,3(!&"N,3%#3h%(L,%0&%0	I0%	D?T7FAC(	DE7?K@(	D@C7Y?@(	D@C7Y?@(

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=>?@@CC@>C?	13(U$03>4&+0'(Zd/03%,#3(H&50/<(.",&'(U5(!"06&+&',3(§3(H*+c0-/%(W,/V(=0*"#$&/V,-$&,3(1%%#-,&/02(W,/V(^§](=0*"#$&/V<(\!"06&+&',3(1CCK?@B?Q	10%	D?7BFB(	DE@B(	D@7CCC(	
=>?@@CA@>C?	1(G*'/,-03/0"7(!'&-0+#>8#3/"#"027(L#*+'0>R',32(.",&'(/#(Zd&9,30(/V0(H&50/<(&32(Z55,-&-<(#5(!,9&;&3%0",3(,3(/V0(."0&/9 03/(#5(!%<-V#%,%(,3(!&"N,3%#3ɩ%(L,%0&%0	10%	D??7KF@(	DA7@CB(	D?B7CFK(	D?B7CFK(
=>?@@CYA>C?	1(!V&%0(A7(L#*+'0>R',327(!'&-0+#>(&32(1-/,;0>8#3/"#"02(L#%0>J&360>P,32,36(Z55,-&-<(&32(H&50/<(#5(H/*2<(#5(!"0&203&3/(,3(H*+c0-/%(X,/V(Z&"'<(!&"N,3%#3ɩ%(L,%0&%0	10%	DEF7EC?(	D?@7FYK(	DTC7?YY(	DTC7?YY(
=>?@@?FT>C?	1(G*'/,>803/0"7(U$03>4&+0'(H/*2<(.#(1%%0%%(.V0(4#36>.0"9(H&50/<(#5(U5(L"#d,2#$&(§3(H*+c0-/%(W,/V(!",9&"<(<"<1*/#3(P&,'*"07(L#$$9,30(R0/&(^<2"#d<'&%0(L05,-,03-<(U"(=#3>L,&+0/,-(=0*"#$&/V<(132(H<9$/#9&/,-(=0*"#603,-(U"/V#%/&/,-(^<$#/03%,#3(#3	10%	D?C7@FT(	D@7FFE(	D?A7CBC(	D?A7CBC(
=>?@@?FF>C?	!V&%0(A(H/*2<(,3(!"#6"0%%,;0(G*'/,$'0(H-'0"#%,%	10%	D?7EEA(	DAYC(	D?7KAA(	D?7@KA(

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=>?@@T@F>C?	!V&%0(A7(U$03>4&+0'7(G*'/,-03/0"7(P#''#X>: $(H/*2<(.#(Z ;&'*&/0(/0(.V0(4#36>.0"9 (H&50/<(1 32(Z55,-&-<(U5(R",;&"&-0/&9 (:%02(1%(12c*3-/,;0(."0&/9 903/($3(H*+c0-/%(1602(?T(I0&"%(U"(U'20"(W,/V(!&"/,&'(U3%0/(H0,b*"0%	I0%	D?B7FYK(	DE7@TB(	D@C7CTE(	D?C7CA@(
=>?@@TTE>C?	1(2#*+'0+',327("&32#9 ,b027($'&-0+#>-#3/"#''02(%/*2<(#5(/V0(%&50/<(053 2(053 9 2#9 ,b0# e:(w)-/-7) Tj [(,)78(J$C#5w)-/-7					DET7TK?(

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=>?@@FK?>C?	U$03>4&+0'(Zd/03%,#3(H/*2<(/#(Z;&'*&/0(/V0(H&50/<(#5(:H4@BB(&%(12c*3-/,;0(.V0"&$<(,3(!&/,03/%(X,/V(J05"&-/#"<(!&",&'>U3%0/(H0,b*"0%(XV#(V&2(!&"/,-,$&/02(,3(!CY>CCE⁷(&(J&32#9,b02⁷(G*'/,-03/0"⁷(L#*+'0>R',32⁷(!'&-0+#v8#3/"#''02⁷(!&"&''0'>O"#*$7(!V&%0(A(M‖M	I0%	DBY?(	D?BY(	DFBC(	DACC(
=>?@@YEY>C?	1(G*'/,-03/0"⁷(U$03>4&+0'⁷(P#*">1"97(J&32#9,b02(.",&'(Z;&'*&/,36(.V0(H&50/<(132(.#"0"&+,'/<(U5(R",;&'&-0/&-0/&9(§3/"&;03#3#*%(§35*%,#3(132(R#'*%⁷(129,3,%/0"02(§3(R,2(J06,903(1%(13(12c*3-/,;0,;0(13/,0$,0$/,-(."0&/903/(§3(H**+c0-/%(P"#9(?T(.#(FC(I0&"%(H*550",36(P"#9(Z$,'0$%<	I0%	DA7FEC(	D?7C?C(	DE7FBC(	D?7YCC(
=>?@@YK@>C?	8V09#/V0"&$0*/,-(J06*'&/,#3(#5(1*/#,99*30,99*30*30,/<(W,/V#*/(U;0"/(8<#/#/#d,-,/<	=#	DTA7CYB(	DT7A?C(	DTY7ECB(	

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=>?@A@EF>C?	L#*+'0>R',327(J&32#9,b027(^,%/#",-&'(8#3/"#'(H/*2<(#5(/V0(H&50/<(&32(Z55,-&-<(#5(Z%',-&"+&b0$,30(1-0/&/0(G#3#/V0"&$<(,3(H*+c0-/%(X,/V(!&"/,&'(Z$,'0$%<(=#/(W0''(8#3/"#''02(+<(8*""03/(13/,0$,'0$/,-(L"*6%	I0%	D?@7ATY(	DA7AEC(	D?B7FCK(	D?B7FCK(
=>?@A@EK>C?	4#36>.0"9(Z%',-&"+&b0$,30(1-0/&/0(Zd/03%,#3(H/*2<	I0%	DT7YYT(	D?7KKY(	DK7KKB(	DK7KKB(
=>?@A@B?>C?	JU.SOU.S=Z(>(H!?CBB(H/*2<	=#	DE@7KFC(	D??7BFB(	DBE7EEB(	DBE7EEB(
=>?@ATKE>C?	1(%,36'0(&"97(#$03>'&+0'7(9 *'/,-03/0"(%/*2<(0;&'*&/,36(/V0('#36>/0"9(%&50/<7(/#'0"&+,',/<(&32(055,-&-<(#5(C\B(9 6(5,36#', 9 #2(\P.IF@CQ(&29,3,%/0"02(#"&''<(#3-0(2&,'<(,3($&/,03/%(X,/V(9 *'/,$'0(%-'0"0%,%	I0%	DKET(	D@BE(	D?7?CC(	D?7?CC(
=>?@AFTT>C?	1(?@>9#3/V7("&32#9,b027("&/0">(&32(2#%0>+',3202(%/*2<(/#(-#9$&"0(/V0(055,-&-<(&32(%&50/<(#5(#5(5,36#',9#2(\Cl@B(9 6(&32(Cl@B(9 6(&29,3,%/0"02(#"&''<("&'053$@C,320 0 Td (018280$A,)0 0 -238 Td ((&32(2#F#0)-'/20,J$C#02)%(8#&/($-*'/,$'0'&$(&"9>"09,/V0('#0(%-'0"0%,%) Tj 11331 476 Td$V28?CC() Tj -2764 0 T						D?7?CC(
B-SD	L#&#Z#*J$`)'*"#		F#ll)-/-7,J$C#52)+8#&+$-.			$V<$

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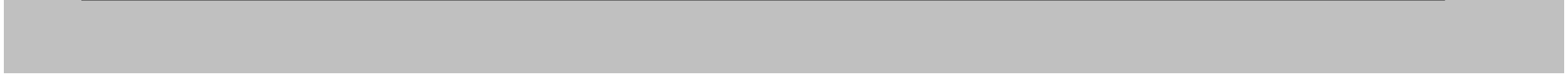| =0*"#%-,03-0%⁷(L0$&"/ 9 03/(#5		=0*"#'#6<⁷(L0$&"/ 9 03/(#5Q	AAⅡ?B		DE?F⁷T?F(
8>?@CTCC>@@	G0/V& 9 $V0/& 9 ,30(.#d,-,/<(&32(8#"/,-#%/",&/&'(O'*/& 9 &/0	=#	D?YA⁷YEA(	DYC⁷B@Y(	D@KE⁷EF@(	D@KE⁷EF@(
8>?@CKEC>CE	G0-V&3,%9%(8#3/"#'',36(/V0(P*3-/,#3(&32(L0;0'#$ 9 03/(#5(=0*"#3&'(=,-#/,3,-(H<3&$%0%	=#	D?CC⁷?AE(	DEY⁷KTF(	D?BC⁷CC?(	D?BC⁷CC?(
8>?@@?BE>CA	.V0(J#'0(#5(O4.?(,3(/V0(G#2*'&/,#3(#5(#5(1'-#V#'>L",3N,36(R0V&;,#"(,3(!(J&/%	=#	D?ET⁷EFB(	DF@⁷YEE(	D@?Y⁷E?Y(	D@?⁷YE@(

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=>?@AT@F>C?	!'&%/,3&/,#3(H0";,-0(5#"(Z&%/0"3(W&%V,36/#3(:3,;0"%,/<	DT7CCC(	DC(	DT7CCC(	DT7CCC(

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=>?@AFB?>C?	$>8#"$%[($3c0-/&+'0(R#30(O"&5/(H*+%/,/*/0(G&/0",&'%	=#	DEB7CCC(	DB7CCC(	DBC7CCC(	DBC7CCC(
	U"/V#$&02,-(H*"60"<7(L0$&"/9 03/(#5Q		?‖CC			DBC7CCC(

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8>?@@FB@>C@	.&"60/,36(8 J G ! @(/#(."0&/(G#/#"(=0*"#3(L,%0&%0	=#	DYK7YF?(	DY7KYF(	D?CK7KTK(	D?CK7KTK(
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=>?@ATBK>C?	G&%%(H$0-/"#90/"<(H/*2,0%(#5(4,$,2(Ud,2&/,#3(,3(8#9 90"-,&'(!"#2*-/%	=#	DAC7CCC(	DC(	DAC7CCC(	D?B7CCC(
J>?C??C@>CB>1?	L0;0'#$903/(#5(=#;0'($32*-0"%(#5(=#3>1$#$/#,-80''(L0&/V(/#(.&"60/(O',#+'&%%(#'%/0	=#	D?Y@7Y@E(	DYT7CFB(	D@KK7YYY(	
	O',#+'&%%(#'%/0 O',#+'&%/#,-80''						
	!&/V#'#6<7(L0$&"/9 03/(#5Q		@‖BC			D?AF7KAE(

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Code	Description	%	Val1	Val2	Val3	Val4
=>?@@BYC>C?	13(Z;&'*&/,#3(#5(/V0(H&50/<⁷(Z55,-&-<(&32(!V&"9 &-#N,30/,-%(#5(L&$/#9 <-,3(,3(!02,&/",-(H*+c0-/%(1602(.V"00(G#3/V%(/#(.X03/<>5#*"(G#3/V%(XV#(&"0(8#3-*""03/'<(J0-0,;,36(H/&32&"2(13/,+,#/,-(.V0"&$<(5#"(!"#;03(#"(H*%\$0-/02(O"&9>\$#%,/,;0(\$350-/,#3	10%	D@C7?CF(	DT7CA@(	D@T7?EC(	D@T7?EC(
=>?@@BYB>C?	1(!"#%\$0-/,;07(J&32#9 ,b027(L#*+'0>R',327(G*'/,-03/0"(H/*2<(/#(Z%/&+',%V(/V0(H&50/<(&32(.#'0"&+,',/<(#5(L#*",\$030 9 (8#9 \$&"02(X,/V(8050\$,9 0(,3(^#%\$,/&',b02(8V,'203(X,/V(R&-/0",&'(!30*9 #3,&	10%	D?7Y@A(	DBFF(	D@7BCC(	D@7BCC(
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=>?@@TT?>C?	1(!V&"9&-#N,30/,-⁊(!V&"9&-#2<3&9,-(&32(H&50/<(H/*2<(#5(H,36'0(&32(G*'/,$'0(L#%0%(#5(J&+0$"&b#'0(,3(!02,&/",-(H*+c0-/%(X,/V(OZJL(?(/#(??(G#3/V%(U'2⁊($3-'*%,;0	10%	DT7Y?F(	D@7CFB(	DK7YY@(	DK7YY@(
=>?@@TTB>C?	13(U$03(4&+0'(!"#%$0-/,;0(!V&"9&-#N,30/,-f!V&"9&-#2<3&9,-(&32(H&50/<(Z;&'*&/,#3(#5($3/"&;03#*%(U%0'/&9,;,"(\.&9,5'*Q(,3(/V0(."0&/903/(#5($35&3/%(40%%(/V&3(U30(I0&"(#5(160(X,/V($35'*03b&($350-/,#3	10%	D@7KKB(	DKTB(	DA7FBC(	DA7FBC(
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=>?@@FC?>C?	H&50/<(&32(Z55,-&-<(#5(1",$,$"&b#'0(,3(/V0(4#36>.0"9(G&,3/03&3-0(."0&/903/(#5(!02,&/",-(!&/,03/%(X,/V($"",/&+',/<(1%%#-,&/02(X,/V(1*/,%9,-(H<%/09(,3(*3/,'/<(L,%#"20"%	10%	DE7ACE(	D?7@Y?(	DB7BYB(	DB7BYB(
=>?@@FC@>C?	G*'/,$'0(L#%0(H/*2<(/#(Z;&'*&/0(/V0(!V&"9&-#N,30/,-%⁊(!V&"9&-#2<3&9,-%⁊(H&50/<(&32(.#"0"+,/</<(#5(1$,d&+3(,3(!02,&/",-(H*+c0-/%(X,/V(&3($32X0'',36(803/"&'(]03#*%(8&/V0/0"	10%	D?K7EE@(	DB7BA@(	D@A7YFE(	D@A7YFE(

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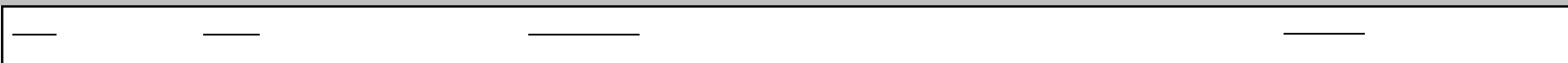| =>?@A?C@>C? | 1(G*'/,-03/0"7(J&32#9,b027(L#*+'0>R',327(K(W00N(H/*2<(.#(Z;&'*&/0(.V0(L#%0(J0%$#3%07(Z55,-&-<(132(H&50/<(U5(1',%N,"03($3(!02,&/",-(^<$0"/03%,;0(!&/,03/%(T>?F(I0&"%(U5(160 | I0% | D?C7@KK(| DA7CKF(| D?A7AFB(| D?A7AFB(|
=>?@A?CA>C?	1(G*'/,-03/0"7(J&32#9,b027(U+%0";0">R',32027(1-/,;0(8#3/"#''02(H/*2<(/#(Z;&'*&/0(/V0(H&50/<7(.#'0"&+,',/<7(Z55,-&-<7(&32(!V&"9&-#N,30/,-%(#5(&(H,36'0(L#%0(#5(805/&"#"&9(P#%&9,'(]0"%*%(8#9$&"&#"(,3(8V,,2"03(160%(R,"/V(/#(I#*360"(/V&3(?@(I0&"%(X,/V(MMM	I0%	DF7K@A(	D@7AEF(	D?C7?FC(	D?C7?FC(
=>?@A??T>C?	1(9*'/,-03/0"7(2#*+'0>+',327("&32#9,b027(B@(X00N(0d/03%,#3(%/*2<(/#(0;&'*&/0(/V0('#36/0"9(%&50/<7(/#'0"&+,',/<7(/<(&32(0,55,-&-<(#5(&',%N,"03(-#9$&"02(/#(03&'$",'(,3(8#02,&/",-(!&/,03/%(T>?F(<0&"%(#5(&60	I0%	DA7KAY(	D?7CAT(	DE7KFB(	DE7KFB(
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=>?@AACE>C?	1(2#*+'0>+',327(327("&32#9,b027(%/"&/,5,027(9*'/,,>-03/0"(/",&'(0;&'*&/,36(-#3/,03,&'(%&50/<(&32(V,6V(2#%0(#5(&9,;,&'(,3(/V0(/"0&/903/(#5(,35&3/%(,99*3#-#9$"#9,%02($&/,03/%(X,/V(35'*03b&(\=] @C@AEQ	I0%	DF7?TY(	D?7YAT(	DY7?CB(	DY7?CB(
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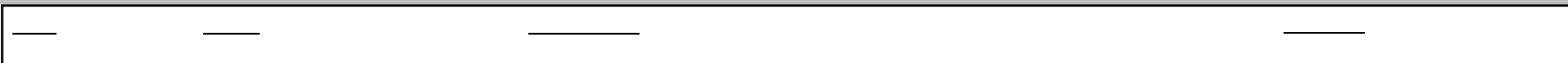
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| =>?@ATFY>C? | U$03>'&+0'(Z;&'*&/,#3(#5(/V0(!V&" 9 &-#N,30/,-(!"#5,'0(&32(H&50/<(#5(.&$03/&2#'(U"&'(H#'*/,#3(5#"(/V0(."0&/ 903/(#5(!#%/%*"6,-&'(!&,3(,3(8V,'2"03(&32(12#'0%-03/%(1602(P"#9 (T(/#(40%%(.V&3(?K(I0&"% | I0% | DB7@?@(| D?7BTA(| DT7FFB(| DT7FFB(|
| =>?@ATK?>C? | Z;&'*&/,#3(#5(/V0(!V&" 9 &-#N,30/,-%(#5(H&d&6',$/,37(H>^<2"#d<(H&d&6',$/,3(&32(G0/5#" 9 ,3(,3(8V,'2"03(&32(12#'0%-03/%(1602(?C(/#(?F(I0&"%(X,/V(.<$0(@(L,&+0/0%(G0'',/*%(P#''#X,36(U"&' 12 9 ,3(&32(G0/5#" 9 ,3(&32(12#'0%-03/%(1602(G0/5#" 9 ,3(&32(G0/5#" 9 ,3(,3(G0/5#" 9 ,3(,3(H&d&6',$/,37(H&d&6',$/,3(&32(G0/5#" 9 ,3(,3(&32(12#'0%-03/%(1602(j J(P,d02(L#%0(8# 9 +,3&/,#3(.&+'0/ | I0% | DF7ECE(| D@7@@?(| DY7T@B(| DY7T@B(|

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=>?@AKAB>C?	Z;&'*&/,#3(#5(/V0(!V&"9&-#N,30/,-%(#5(H&d&6',$/,37(Bx^<2"-d<(H&d&6,,$/,37(&32(G0/5#"9,3(,3(8V,'2"03(&32(12#'0%-03/%(1602(?C(/#(?F(I0&"%(X,/V(.<$0(@(L,&+0/0%(G0/,',/*%(P#"'#X,36(U"&'(129,3,%/"&/,#3(#5 H&d&6',$/,3(&32(G0/5#"9,3(j J(P,d02(L#%0(8#9+,3&/,#3(.&+'0'/(&32(8#>(129,3,%/"&/,#3(#5((ꟿꟿꟿ	I0%	DT⁷TBE(	D?⁷YYT(	DK⁷TBC(	DK⁷TBC(
=>?@AKAT>C?	1(G*'/,-03/0"⁷(J&32#9,b02⁷(U+%0";0"(R',32027(1-/,;0>8#3/"#''02(H/*2<(Z;&'*&/,36(/V0(H&50/<⁷(.#'0"&+,',/<⁷(!V&"9&-#N,30/,-%⁷(&32(Z55,-&-<(#5(805/&"#"#"#⁷#'',&d#30(,3(!02,&/"-(H*+c0-/%(W,/V(8#99*3,/<>&-e*,"02(R&-/0",&'(!30*9#3,&(J0e*,",36(^#%$,/&',b&/,#3	I0%	DT⁷FBC(	D@⁷C@B(	DK⁷FFB(	DK⁷FFB(
.>?@@@KF>C@	§203/,5,-&/,#3(#5(=0X(G0-V&3,%/,-(R,#9&"N0"%(#5(12;0"%$#%0%(/#(1-0/&9,3,3#$V03	I0%	D?⁷E?@(	DFCA(	D@⁷??B(	D@⁷??B(
		!02,&/",-%⁷(L0$&"/9 03/(#5Q		AEꟿCC		DF@C⁷YC?(

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8>C?CCKF>@B	L,6,/&',%>§32*-02(H,63&',36(+<(8&"2,&-(=&ifai>1.!&%0	=#	D?⁷CFF⁷E?C(	DAFB⁷YEA(	D?⁷EBA⁷ABA(	
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=>?@AYKA>C?	=&fa>1.!&%0fH"-("0-0$/#"(&%(&(/&"60/(5#"(3#;0'(/V0"&$0*/,-%(,3(%<%/09,-(%-'0"#"#%,%	=#	D@B7CCC(	DC(	D@B7CCC(	D?C7CCC(

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8>?C?A?A>CK	U--*$&/,#3&'(^0&'/V(."&,3,36(O"&3/	=#	DTC7BE@(	D@7C?K(	DT@7BTC(	DT@7BTC(
=>?@A@?T>C?	! *+',-(^0&'/V(."&,300%V,$	=#	DB7F?@(	DC(	DB7F?@(	DB7F?@(
J>?CKKEY>CB	§3/0"3%V,$(16"00 9 03/(R0/X003(/V0(: 3,;0"%,/<(#5(.#'02#(&32(.V0(R#&"2(#5(4*-&%(8#*3/<(8#9 9,%%,#30"%	I0%	DY?7?EY(	DY7??B(	D?CC7@TA(	D?CC7@TA(
	! *+',-(^'/Vf^#9 0'&32(H0- *",/<⁊(L0$&"/		AllCC		D?TK7BAB(

J&2,#'#6<⁊(L0$&"/ 9 03/(#5

=>?C?AAE>C?	Z550-/(#5(H,"#', 9 *%(#3(8<%/(J06"0%%,#3,(3(J03&'(."&3%$'&3/(J0-,$,03/%(X,/V(! #'<-<%/,-(a,230<(L,%0&%0	I0%	DA@7CCC(	DK7CCC(	DEC7CCC(	
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=>?@@Y?C>C?>1?	4#36,/*2,3&'(GJ§(%/*2<(#5(! . HL(20;0'#$903/(5"#9(2&<%(/#(X00N%(&5/0"(/"&*9&	=#	D?BT7BBK(	DFF7YTT(	D@AE7B@E(	DC(
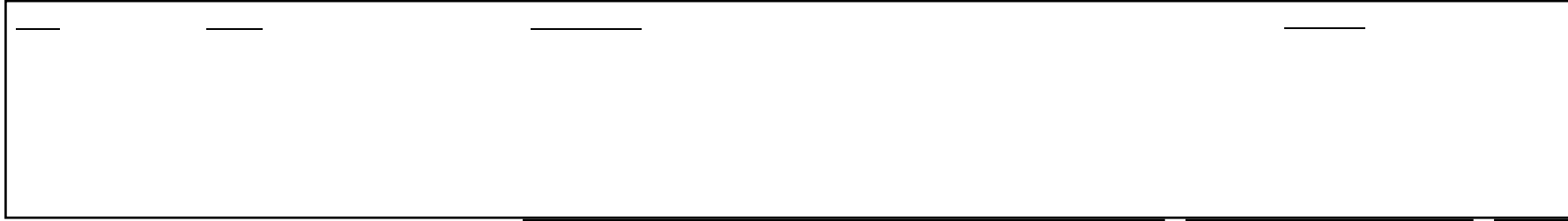
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=>?C?BYK>C?	! JZ8§H§U=[((!"#%$0-/,;0(J&32#9,b02(Z;&'*&/,#3(#5(80'0-#d,+(§3/06"&/02(H&50/<(;%Ⅲ§+*$"#5O3(#"(=&$"#d03ⅢⅢ	I0%	DAT7?YA(	DY7CEK(	DEB7@E?(
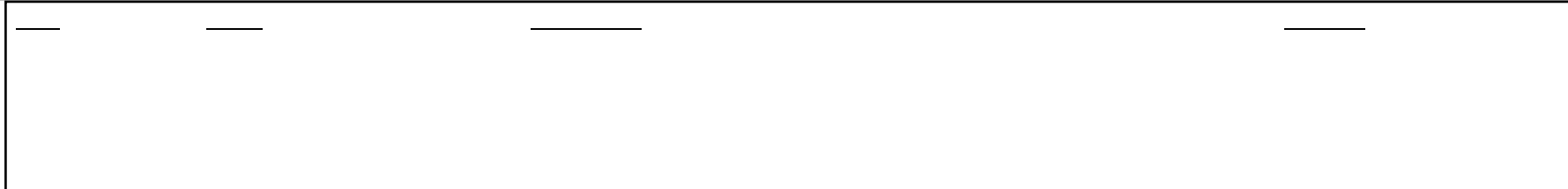
=>?@CK@Y>C?	. Z8UH[(1(J&32#9,b027(!'&-0+#(8#3/"#''02(8',3,-&'(.",&'(/#(Z;&'*&/0(8&"2,#;&%-*'&"(U*/-#90%(&5/0"(."0&/903/(X,/V(H,/&6',$/,3,3(!&/,03/%D X,/V(.<$0(@(L,&+0/0%(G0'',/*%(&32(§3&20e*&/0(O'<-09,-(8#3/"#'#' B-§D		D?B7A?B(A'++2)J$428'" A)Ⅲ"/J$4+#(#&	DA7K@Y Td (B-§D)Ⅳ7?⮽ D7Y?E60 0 Td (`"-Ⅱ)'J L#0'3'&#J$C#52)+8#&+$-.

G02,-,30⁷(8#''060(#5

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=>?@AEAT>C?	40;&3/(@7($V&%0(@((8#3/,3*02(1--0%%(J06,%/"<		I0%	DBF?(	D?BE(	DF@B(	DFA(
=>?@AB@E>C?	1"/,%&3[(,8 1H.(J j(L0(=#;#(H/03/(!'&-0 9 03/(5#"(/V0(."0&/ 9 03/(U5(1/V0"#%-'0"#/,-(J03&'(1"/0"<(H/03#%,%(,3(H*+c0-/%(X,/V(J0%,%/&3/(^<$0"/03%,#3		I0%	D@7ACK(	DTY@(	DA7CCC(	DEBC(
=>?@ATET>C?	!V&%0(A7(G*'/,-03/0"7("&32#9,b027(2#*+'0>+',327($'&-0+#>-#3/"#''02(/",&'(/#(0;&'*&/0(/V0(055,-&-<(&32(%&50/</(#5(*'&"#"/#2,'0(+<,/20(,3(,35*%,#3(,35*%,#3(,3($&/,03/%(%*550",36(5"#9(&-*/0(20-#9$03%&/02(V0&"/(5&,'*"0(						

J0%,2(!"6 9 >=0*"#%-,03-0%

=>?@@@B@>C?	1(J&32#9 ,b02⁷(L#*+'0>+',32⁷(!'&-0+#>-#3/"#"02⁷(G*'/,-03/0"⁷(!&"&"'0'>6"#*$(H/*2<(/#(Z ;&'*&/0(/V0(Z55,-&-<(&32(H&50/<(#5(R",;&"&-0/&9 (,3(H*+c0-/%(\6"0&/0"(/V&3(#"0e*&'(/#(?T(/#(KC<0&"%(#'2Q(X,/V(!&"/,&'(U3%0/(H0,b*"0%(\!V&%0(§§§Q(\!"#/#-#"(=#ℍ[((=C?ABKQ	I0%	D@7YET(	DFYB(	DA7FE?(	DBT?(
=>?@@T@F>C?	!V&%0(A⁷(U$03>4&+0'⁷(G*'/,-03/0"⁷(P#"#X>:$(H/*2<(.#(Z ;&'*&/0(/.V0(4#36>.0"9 (H&50/<(132(Z55,-&-<(U5(R",;&"&-0/&9(:%02(1%(12c*3-/,;0(."0&/9 03/(§3(H*+c0-/%(1602(?T(I0&"%(U"(U'20"(W,/V(!&"/,&'(U3%0/(H0,b*"0%	I0%	D?B7FYK(	DE7@TB(	D@C7CTE(	D?C7CA@(
=>?@@FFK>C?	1(L#*+'0>+',327(J&32#9 ,b02⁷(!'&-0+#>-#3/"#"02⁷(G*'/,-03/0"⁷(!&"&"'0'>6"#*$(H/*2<(X,/V(&3(U$03>'&+0'(Zd/03%,#3(!V&%0(/#(Z ;&'*&/0(/V0(Z55,-&-<(&32(H&50/<(#5(12c*3-/,;0(!0"&9 $&30'(,3(!",9&"<(O030"&',b02(.#3,->8'#3,-(H0,b*"0%	I0%	DFKF(	D@?A(	D?7CCC(	DTCC(
=>?@@FFY>C?	1(!V&%0(@⁷(G*'/,-03/0"⁷(L#*+'0>+'0>R',327(J&32#9 ,b02⁷(12c*3-/,;0(!'&-0+#>-#3/"#"02(.",&'(/#(Z ;&'*&/0(/.V0(Z55,-&-<(&32(H&50/<(#5(I a !ACKY(,3(H*+c0-/%(X,/V(.0&/9 $&30'(/#(J0%,%/&3/(!&"/,&'(U3%0/(H0,b*"0%	I0%	D?E7F@K(	DA7YFF(	D?K7FCB(	DA7FE?(
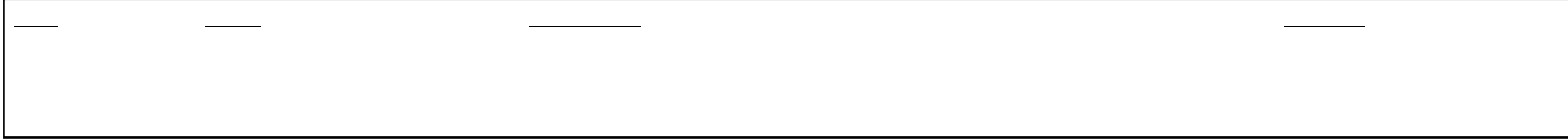
G02,-,307(8#''060(#5

=>?@@FKC>C?	1(J&32#9,b027(G*'/,-03/0"7(L#*+'0(R',327(!'&-0+#>8#3/"#"027(!&"&"0'>O"#*$7(!V&%0(A(H/*2<(/#(Z;&'*&/0(/V0(Z55,-&-<(&32(H&50/<(#5(:H4@BB(&%(12¢*3-/,;0(.V0"&$<(,3(!&/,03/%(X,/V(J05"&-/#"<(!&"/,&'>U3%0/(H0,b*"0%‖	I0%	DB7KCF(	D?7BTK(	DF7AFB(	DE7E@B(
=>?@@FK?>C?	U$03>4&+0'(Zd/03%,#3(H/*2<(/#(Z;&'*&/0(/V0(H&50/<(#5(:H4@BB(&%(12¢*3-/,;0(.V0"&$<(,3(!&/,03/%(X,/V(J05"&-/#"<(!&"/,&'>U3%0/(H0,b*"0%(DF7C(					DEBC(

H*''60''<7(L0$&''/ 9 03/(#5

| =>?C?CB?>C? | . V0(=&/,#3&'(4< 9 $V#8&''0(H/*2<[((1 3(U+%0''; &/,#3&'(H/*2<(#5(."0&/ 9 03/7(U*/-#9 0%(&32(!''#63#%,%(,3(!&/,03/%(X,/V(P#'',-*'&''(=#3>^#26N,3ℎ%(4< 9 $V#9 & | I0% | DEEC(| D??C(| DBBC(|

=>?@@?FB>C?	1360'G02(5#"(Z&"'<(J0-#63,/,#3(&32(."0&/ 9 03/(#5(H.ZG§(\14ZJ.HQ(J&32#9 ,b02(.",&'	I0%	D?CK⁊FTB(	DC(	D?CK⁊FTB(	DBE⁊AKA(
=>?@@@CE>C?	L0%-032,36(.V#"&-,-(1#"/,-(130*"<%9(Z32#;&%-*'&"(J0$&,"(!#%/(1$$"#;&'(H/*2<(\.^J§]ZQ	I0%	D?⁊YTY(	DBA?(	D@⁊BCC(	D@⁊BCC(
=>?@@AFA>C?	8J: j(R,#9 02,-&'(Z;&'*&/,#3(#5(/V0(8"*d(§35O",#"(]03&(8&;&(P,'/0"(H<%/0 9 (\mJ"0/",0;0mQ	I0%	DA⁊BEA(	DYBF(	DE⁊BCC(	DE⁊BCC(
=>?@@Y?C>C?>1?	4#36,/*2,3&'(GJ§(%/*2<(#5(!.HL(20;0'#$ 9 03/(5"#9 (2&<%(/#(X00N%(&5/0"(/"&*9 &	=#	D?BT⁊BBK(	DFF⁊YTT(	D@AE⁊B@E(	D??⁊F@T(
=>?@A?AF>C?	Z;&'*&/,#3(#5(J00."&N/(J0/"&-/#"(,3(H*"6,-&'(!"#-02*"0%(\!??>CBTQ	I0%	D@⁊BBY(	DTY?(	DA⁊@BC(	DA⁊@BC(

=>?@A?AK>C?	!Z1J4(§§[(!Z",$V0"&'(:%0(#5(136,#`0/s(JV0#'</,-(.V"#9+0-/#9<(W,/V(&( ]&",0/<(#5(8&/V0/0"(4036/V%(§§(J06,%/"<	I0%	DA7YAF(	D?7CTA(	DB7CCC(	DB7CCC(
=>?@ATET>C?	!V&%0(A7(G*'/,-03/0"7("&32#9,b027(2#*+'0>+',327($'&-0+#>-#3/"#"02(/",&'(/#(0;&'*&/0(/V0(055,-&-<(&32(%&50/<(#5(*'&",/,20(*"#2,'&/,3Q(,3/"&;03#*%(,35*%,#3(,3($&/,03/%(%*550",36(5"#9(&-*/0(20-#9 9 $03%&/02(V0&"/(5&,'*"0(V"*0>&V5QM	I0%	DE7ET@(	D?7AAK(	DB7KCC(	
=>?@AYTA>C?	GUJ0>81JZ	=#	D?C7CCC(	DC(	D?C7CCC(	D@7BCC(
			H*"60"<7(L0$&"/9 03/(#5Q	TⅢKB		D?BF7TFY(

8>?@?B@F>CE	§9$"#;0903/(,3(!&,"02(L#3&/,#3(!"#6"&9	=#	D@E@7F@K(	DKF7@TE(	DA@Y7YY@(	
8>?@@EEK>C@	U$/,9,b&/,#3(&32(H,9*'&/,#3(#5(a,230<(!&,"02(L#3&/,#3(!"#6"&9%	=#	D?B7FKC(	DF7KBY(	D@A7TAY(	D@A7TAY(

G02,-,307(8#''060(#5

=>?C?AAE>C?	Z550-/(#5(H,"#', 9 *%(#3(8<%/(J06"0%%,#3(,3(J03&'(."&3%$'&3/(J0-,$,03/%(X,/V(!#'<-<%/,-(a,230<(L,%0&%0	I0%	DA@7CCC(	DK7CCC(	DEC7CCC(	
=>?@@@@T>C?	Z;&'*&/,#3(#5(&(H/&32&"2(1-e*,%,/,#3(8V&"60(G#20'(5#"(a,230<(!&,"02(L#3&/,#3	=#	DE@A7KK?(	DFT7CBC(	DEYY7YA?(	DEYY7YA?(
=>?@@EEK>C?>1?	U$/,9,b&/,#3(&32(H,9*'&/,#3(#5(a,230<(!&,"02(L#3&/,#3(!"#6"&9%	=#	D?B7FK?(	DF7KBY(	D@A7TEC(	D@A7TEC(
=>?@AKFT>C?	1(@E(9#3/V7(%,36'0(-03/0"7($,'#7/(#$03('&+0'7("&32#9,b027(-#3/"#'02(/",&'(/#(0;&'*&/0(/V0(055,-&-<(&32(%&50/</(#5(-&'-'30*",3>,3V,+,/#'(9,3&/,#3(#"("02*-/,#3(qMMMrZ;0"#',9*%s'G<5#"/,-s(;0"%*%(J02*-02(L#%0(/&-"#',9*%'Z;0"#',9*%s,3(&2*'/("03&'(/"&3%$'&3/("0-,$,03/%(t	I0%	DYC7TT@(	DC(	DYC7TT@(	DBE7AYF(
=>?@E?TF>C?	$3/0"%/,/,&'(8<%/,/,%[((Z'*-,28&/,#3(#5(!%<-V#$V<%,#'#6,-(&32(1*/#3#9,-(8V&"&-/0"	=#	DBF7??B(	D@F7Y@Y(	DKB7CEE(	DKB7CEE(

: "#'#6<7(L0$&''/ 9 03/(#5Q		EⅡTC	DTKT7TB?(
G02,-,307(8#''060(#5Q		?YFⅡFF	D?K7TAE7KBB(

=&/*"&'(H-,03-0%(_(G&/V0 9 &/,-%7(8#''060(#5

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=>?@EC@K>C?	. V0(O0# 9 0/"<(#5(H/0''&"(W,32%(&32(HV#-N(H/"* -/*"0(,3(]EEE(8<6	=#	D?A7TK@(	DT7@@B(	D?Y7YCF(	D?Y7YCF(

	1 2 9 ,3,%/"&/,#37(8#''060(#5(=&/*"&'(H-,0	?‖CC			D?Y7YCF(

R,#'#6,-&'(H-,03-0%7(L0$&"/ 9 03/(#5

8>?CYCCC>CY	R,#9 #3,/#",36(#5(=*/",/,#3&'(&32(Z3 ;,"#3 9 03/&'(H/"0%%(,3(!'&3/%	=#	DTK7F@F(	DT7KFA(	DFB7TCC(	DF7BTC(
8>??CCK?>CB	OZ ! J[(H<%/0 9 %(1 $$"#&-V0%(/#(§203/,5<(O030(J06 *'&/#"<(=0/X#"N%(,3(/V0(O"&%%0%	=#	D?TY7C@@(	DFT7YCB(	D@EB7Y@F(	D@EB7Y@F(
8>						

R,#'#6,-&'(H-,03-0%⅞(L0$&"/9 03/(#5

=>?@@YK@>C?	8V0 9 #/V0"&$0*/,-(J06*'&/,#3(#5(1 */#,9 9 *3,/<(W,/V#*/(U ;0"/(8</#/#d,-,/<	=#	DTA7CYB(	DT7A?C(	DTY7ECB(	DTY7ECB(
=>?@AC??>C?	G4aE(J06*'&/,#3(#5(G1 ! a(H,63&',36	=#	D@EC7CCC(	D?CY7@CC(	DAEY7@CC(	DAEY7@CC(
=>?@AY@A>C?	8V,9 0",-(=0 9 &/#20(G#20'%(5#"(13/V0'9 ,3/,-(L,%-#;0"<	=#	D?CC7CCC(	DC(	D?CC7CCC(	D?CC7CCC(
J>??CCYE>CT>1 ?	4#-#9 #/,#3(,3(!&"&%,/,-(=0 9 &/#20%	=#	D@AB7CCC(	D?CT7Y@B(	DAE?7Y@B(	DAE?7Y@B(

=&/*"&'(H-,03-0%(_(G&/V0 9 &/,-%7(8#"060(#5

8V0 9 ,%/"<7(L0$&"/ 9 03/(#5

8>?@?TC?>CA	JZ:(H,/0(Zd$'#",36(H/"*-/*"0(#5(G#'0-*'0%(&32(G&/0",&'%	=#	DTA7@EY(	DF7Y?@(	DF?7?T?(	DF?7?T?(
8>?@?T?E>CA	=#;0'(4#X(.0 9 $0"&/*"0(J#*/0%(/#(G0/&'(H*'5,20%	=#	DF@7?TB(	DA@7KAB(	D?CB7CCC(	D?CB7CCC(

=&/*"&'(H-,03-0%(_(G&/V0 9 &/,-%7(8#''060(#5

8V0 9,%/"<7(L0$&"/ 9 03/(#5

.>?@ABFC>C@	Z3/,"0'<(8&"+#V<2"&/0(]&--,30(8#3%/"*-/%(&32(.V0,"(1$$',-&/,#3(,3(!"#+,36(O'<-#,9	=#	D@CF7BCC(	DKK7YBA(	D@YT7EBA(	D@YT7EBA(

		8V0 9,%/"<7(L0$&"/ 9 03/(#5ℚ	?AℍAB		D??7TEA7BEE(

Z3;,"#3 9 03/&'(H-,03-0%7(L0$&"/ 9 03/(#5

8>?CYCCC>CY	R,#9 9 #3,/#",36(#5(=*/",/,#3&'(&32(Z3;,"#3 9 03/&'(H/"0%%(,3(!'&3/%	=#	DTK7F@F(	DT7KFA(	DFB7TCC(	DTK7CEC(
8>?@CCF?>CB	O"&2*&/0(.0&-V,36(P0''#X%(,3(H.ZG(^,6V(H-V##'(Z2*-&/,#3[((13(Z3;,"#3 9 03/&'(H-,03-0(40&"3,36(8#9 9 *3,/<(&/(/V0(4&32>4&N0(Z-#%<%/0 9 ($3/0"5&-0	=#	DEBE7KY?(	DAK7C?@(	DEY@7YCA(	DBY7?EK(
8>?@C?TE>CA	P#"0-&%/,36(H$"0&2(&32(R,#0-#3#9 9 ,-($ 9 $&-/%(#5(1e*&/,-($3;&%,;0(H$0-,0%(5"#9 9 (G*'/,$'0(!&/VX&<%(/#(($ 9 $"#;0(G&3&60 9 03/(&32(!#',-<(,3(/V0(O"0&/(4&N0%	=#	DFC7@BC(	DA?7YTE(	D?C@7@?E(	DB??CF(
8>?@CFAB>C@	R,#$V<%,-&'(8#3%/"&,3/%(&32(J0%#*"-0(:%0(4,9,/&/,#3%(5#"(G&d,9,b,36(R,#5*0'(!"#2*-/,#3	=#	D@T7BAA(	DK7TY?(	DAB7@@E(	DAB7@@E(
8>?@@T@T>C@	G&*9 00(1 U87(W#'5(8"00N[((!&%%,;0(."0&/ 9 03/(W0/'&32(/#(($ 9 $"#;0(=0&"%V#"0(^0&'/V(&32(J02*-0(=#3$#,3/(H#*"-0(!#''*/&3/%	=#	DB?E7?KK(	DBE7TKB(	DBTK7KFA(	D@KE7EAF(

=&/*"&'(H-,03-0%(_(G&/V09&/,-%7(8#"060(#5

§3%/"*903/&/,#3(803/0"

=>?@AB@K>C?	U$/,9,b&/,#3(#5(!"#/0,3(8"<%/&'(O"#X/V(5#"(L0/0"9,3&/,#3(#5(Z3b<90(G0-V&3,%9%(/V"#*6V(12;&3-02(L,55"&-/,#3(.0-V3,e*0%	=#	D?TC7CCC(	DEC7CCC(	D@CC7CCC(	DBC7CCC(
=>?@ATAB>C?	H9&"(G#'0-*'0(H,36'0(8"<%/&'(H/"*-/*"0(13&'<%,%	=#	D?7AFB(	DT@B(	D@7CCC(	D@7CCC(
	§3%/"*903/&/,#3(803/0"Q		?॥@B			DB@7CCC(

4&N0(Z",0(H#,'(&32(W&/0"(J0%0&"-V(&32(Z2*-&/,#3(803/0"

8>?@CCF?>CB	O"&2*&/0(.0&-V,36(P0''#X%(,3(H.ZG(^,6V(H-V##'(Z2*-&/,#3[((13(Z3;,"#3903/&'(H-,03-0(40&"3,36(8#99*3,/<(&//(/V0(4&32>4&N0(Z-#%<%/09(§3/0"5&-0	=#	DEBE7KY?(	DAK7C?@(	DEY@7YCA(	DA?C7B@Y(
8>?@C?TE>CA	P#"0-&%/,36(H$"0&2(&32(R,#0-#3#9,-(§9$&-/%(1e*&/,-($3;&%,;0(H$0-,0%(5"#9(G*'/,$'0(!&/VX&<%(/#(§9$"#;0(G&3&60903/(&32(!#,-<(,3(/V0(O"0&/(4&N0%	=#	DFC7@BC(	DA?7YTE(	D?C@7@?E(	DB???CF(
8>?@?AKK>CE	]^H(I0"#X(!0"-V(1e*&-*/'/*"0(1JH(@C?C	=#	D??Y7YCC(	DC(	D??Y7YCC(	DBY7YBC(

4&N0(Z",0(H#,'(&32(W&/0"(J0%0&"-V(&32(Z2*-&/,#3(803/0"

8>?@?YEB>C@	Zd/"09 0(Z;03/%(§9 $&-/%(#3(W&/0"(k*&',/<(,3(/V0(O"0&/(4&N0%[((!"02,-/,#3(&32(G&3&60 9 03/(#5(=*/",03/(4##&2,36(,3(&(8V&36,36(8',9 &/0	=#	DYY7B?B(	DEB7@KC(	D?EE7FYB(	D?EE7FYB(
8>?@@T@T>C@	G&*9 00(1U87(W#'5(8"00N[((!&%%,;0(."0&/9 03/(W0/'&32(/#(§9 $"#;0(=0&"%V#"0(^0&'/V(&32(J02*-0(=#3$#,3/(H#*"-0(!#''*/&3/%	=#	DB?E7?KK(	DBE7TKB(	DBTK7KFA(	D@KE7EAF(
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=>?@AEYA>C?	J02*-/,#3(#5(H02,903/(&32(R&-/0",&(4##&2,36%(/#(*!*+',-(R0&-V0%(&/(G&*9 00(R&<(H/&/0(!&"N(;,&(Z3V&3-02(J,$&",3(^&+,/&/	=#	DAYB7CYF(	DFF7AYE(	DEF@7EY?(	D@AT7@ET(
=>?@ATYY>C?	.#'02#(^&"+#"(U55%V#"0(L"026,36(H/*2<	=#	D@?7@EE(	DY7TTT(	DAC7Y?C(	D?B7EBB(
=>?@AFBE>C?	1(J&$,2(&32(1--*"&/0(L=1(.0%/(5#"(§3;&%,;0(P,%V(H$0-,0%(5"#9 (W&/0"(H&9 $'0%	=#	D@A7CCC(	DC(	D@A7CCC(	D@A7CCC(
=>?@AKFB>C?	:%,36(30X(/##'%(/#(+0//0"(*320"%/&32(&32($"02,-/(V&"9 5*'(-<&3#+&-/0",&'(&'(&'6&'(+'+'##9 %(,3(4&N0(Z",0(&32(UV,#(,3'&32('&N0%	=#	DT7KFA(	DA7?@F(	D?C7CCC(	D?C7CCC(
	4&N0(Z",0(H#,'(&32(W&/0"(J0%0&"-V(&32(		TIITA		D?7EAE7YFY(

G&/V0 9 &/,-%7(L0$&"/9 03/(#5

G&/V0 9 &/,-%7(L0$&"/ 9 03/(#5

=>?@A?A@>C?	^,6V(8#2,903%,#3&'(G0&3(8 *";&/*"0(P'#X(&32(G,3,9 &'(H*+9 &3,5#'2%	=#	DT7CCC(	D?7CCC(	DF7CCC(	DF7CCC(
=>?@AT@?>C?	UV,#(W#"N5#"-0(1--0'0"&/#"(=0/X#"N	=#	DK?A7?CC(	DKA7FYK(	DKYT7KYK(	DEE7KEB(

		G&/V0 9 &/,-%7(L0$&"/ 9 03/(#5Q	?⫫CB	DB?7KEB(

!V<%,-%(&32(1%/"#3#9 <7(L0$&"/ 9 03/(#5

8>?@CBCA>CT	1 1H(H-,03/,5,-(Z2,/#"(J0%0&"-V(H/,$032	=#	D?C7CCC(	D?7CCC(	D??7CCC(	D??7CCC(
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8>?@@BKT>C@	^0"%-V0'(U.?(8#9+,302[(R0<#32(/V0(!0&Nⴄ(W&/0"(,3(=O8(KY?	=#	DTK7F@Y(	DA?7@F?(	D?CC7CCC(	D?CC7CCC(
8>?@@FTA>C@	^,6V(.V"#*6V$*/(8§OH(H#'&"(80''(P&+",-&/,#3(;,&(:'/"&>/V,3(1+%#"+0"(4&<0"(XfU$/,-&'(8#35,309 03/(&32(\8 2🝧(8 RL◊>P"00(P0/0"#"#"#🜛*3-,#3(!&"/30"	=#	DAE7ATE(	D?B7TAT(	DBC7CCC(	DBC7CCC(
8>?@@FTE>C@	=#;0'(8#3/&-/(G&/0",&'%(5#"(§9 $"#;02(!0"5#"9 &3-0(82.0((H#'&"(80''%	=#	DBK7E?Y(	D@T7BK?(	DKB7CCC(	DKB7CCC(
8>?@@KFC>C@	.V0#"0/,-&'(H/*2<(#5(4&//,-0(L050-/%(&32(."&3%,/,#3(G0/&'(§9 $*",/,0%(,3(H,	=#	DA?7BCY(	D?E7AAF(	DEB7KET(	DEB7KET(

!V<%,-%(&32(1%/"#3#9 ⊲⁊(L0$&"/9 03/(#5

8>?@@KYA>C@	Z'0-/"#3(G,-"#%-#$<(H/*2<(#5(!V#/#;#'/&,-(G&/0",&'%	=#	DFF7FFK(	D@C7@@?(	DYF7YYY(	DYF7YYY(
8>?@@YAB>C@	O"#X/V7(^0&/(."0&/9 03/(&32(.V0#"<(#5(82.0(.V,3(P,'9%	=#	DE?7@AF(	D?K7FTA(	DTC7CCC(	DTC7CCC(
8>?@AACF>C@	L0;0'#$9 03/(#5(1gU(4&<0"%(5#"(!](1$$',-&/,#3%	=#	DEY7EFB(	D@@7B??(	DF?7YKT(	DF?7YKT(
=>?@?ABY>CA	.V0(."&3%,/,#3(5"#9 (L,55*%0(G#'0-*'&"(8'#*2%(/#(L&"N(8'#*2%(.V"#*6V(:'/"&;,#'0/(8U(G0&%*"09 03/%	I0%	DKA7FY?(	DAK7?@B(	D?@?7Y?T(	D?@?7Y?T(
=>?@@YYT>C?	H/0''&"(4,50(&32(L0&/V(,3(GKA[((1(^*++'0>8V&32"&(!0"%$0-/,;0	=#	DK7E?@(	DA7K@F(	D?@?7@AY(	D?@?7@AY(
=>?@@YYF>C?	8#35,"9,36(:'/"&>8#'2(\.055wBCCaQ(R"#X3(LX&"5(H*%$0-/%($2035,5,02(X,/V(WₛHZ	=#	D?@7AF?(	DB7T@Y(	D?K7CCC(	D?K7CCC(
=>?@ACEC>C?	G Jₛ[(1-e*,%,/,#3(#5(&(.^b(H$0-/"#%-#$,-(Z'',$%%#0/(9 0/0"	=#	DBAC7CCC(	DC(	DBAC7CCC(	DBAC7CCC(
=>?@ACFT>C?	HZ![(Z&"/V>&+*32&3/(%#'&"(-0''%(&%(&(%*%/&,3&+'0(%#'&"(030"6<($&/VX&<	=#	D?7ACF7F?Y(	DBY@7@K@(	D?7YCC7CC?(	DYBC7CC?(

=&/*"&'(H-,03-0%(_(G&/V09 &/,-%7(8#''060(#5

=>?@A?KC>C?	LGJZP[((8#''&+#"&/,;0(J0%0&"-V[((=,/",20(L,%-#;0"<(>(8"0&/,36(/V0(a3#X'0260(R&%0(5#"(^&"2(8#&/,36(L0%,63	=#	D?CA7CY@(	DET7YCK(	D?BC7CCC(	D?BC7CCC(
=>?@A@YK>C?	15/0"(/V0(P&''(>(WV<(O&'&d,0%(L,07(&32(^#X	=#	DFC7CCC(	DC(	DFC7CCC(	DFC7CCC(
=>?@AACF>C?	L0;0'#$9 03/(#5(1gU(4&<0"%(5#"(!](1$$',-&/,#3%	=#	DKF7AY@(	DAY7FTA(	D?@F7?BB(	D?@F7?BB(
=>?@AEEE>C?	8#9 $'0/,36(/V0(803 3%*%(#5(:'/"&-##'(R"#X3(LX&"5%(,3(/V0(H#'&"(=0,6V+#"V##2(*%,36(^H.fWP8A	=#	D@@K7F??(	D?C?7FKK(	DAAC7EYY(	DAAC7EYY(
=>?@ABB@>C?	L,55*%0(j>"&<(Z 9,%%,#3(P"#9(G&%%,;0(H/&"(8'*%/0"%(,3(/V0(13/033&0	=#	D@F7?EK(	D?@7AB@(	DAY7BCC(	DAY7BCC(
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=&/*"&'(H-,03-0%(_(G&/V0 9 &/,-%7(8#''060(#5

! V<%,-%(&32(1%/"#3# 9 <7(L0$&"/ 9 03/(#5

=>?@ECCB>C?	: .(Zd$0"/,%0(5#"(HJ§fLUZ(H#'&"(Z30"6<(Z;#'*/,#3(&32(L,55*%,#3(H/*2,0%(\HZZLᵩ(!"#c0-/	=#	D?7F?K(	DFK@(	D@7BCC(	D@7BCC(
J>??CCCB>CF	JZ : (H,/0[((J0%0&"-V(Zd$0",03-0%(5#"(: 320"6"&2*&/0%(,3(!V<%,-%(&32(1%/"#3# 9 <(&/(.V0(: 3,;0"%,/<(#5(.#'02#	=#	DYB7YCB(	DE7CYB(	D?CC7CCC(	D?CC7CCC(
J>?@@YF@>C@	."&3%$&"03/(R&-N(8#3/&-/%(5#"(.V,3(82.0>R&%02(.&320 9(80"%	=#	D?CA7@T?(	DET7YKE(	D?BC7@EB(	D?BC7@EB(
H>?@@@YT>C@>H?	: '/"&>V,6V(Z55,-,03-<(&32(4,6V/X0,6V/(.V,3(P,'9(!V#/#;#'/&,-(Z'0-/",-,/<(5#"(!#"/&+'07(U3>L0 9 &32(!#X0"(5#"(L0503%0(1$$',-&/,#3%	=#	DAF7KC?(	D?F7?YY(	DBB7CCC(	DBB7CCC(
H>?@@@YT>C@>H@	: '/"&>V,6V(Z55,-,03-<(&32(4,6V/X0,6V/(.V,3(P,'9(!V#/#;#'/&,-(Z'0-/",-,/<(5#"(!#"/&+'07(U3>L0 9 &32(!#X0"(5#"(L0503%0(1$$',-&/,#3%	=#	DTC7CCC(	DC(	DTC7CCC(	DTC7CCC(
H>?@@@YT>C@>HA	: '/"&>V,6V(Z55,-,03-<(&32(4,6V/X0,6V/(.V,3(P,'9(!V#/#;#'/&,-(Z'0-/",-,/<(5#"(!#"/&+'07(U3>L0 9 &32(!#X0"(5#"(L0503%0(1$$',-&/,#3%	=#	DAA7ACC(	DC(	DAA7ACC(	DAA7ACC(

! V<%,-%(&32(1%/"#3# 9 <7(L0$&"/ 9 03/(#	@KⅢBC	DA7YBE7C?@(
=&/*"&'(H-,03-0%(_(G&/V0 9 &/,-%7(8#''060(#	KCⅡ?C	D??7TCF7@BC(

= *"%,367(8#''060(#5

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= * "%,367(8#''060(#5						
=>?@A?YY>C?	J0V&+,',/&/,#3(= * "%0%ᴴ(Zd$0",03-0%(WV03(&3($3%/,/*/,#3&',b02(U'20"(!0"%#3(P&''%	=#	DK7TFT(	DC(	DK7TFT(	DK7TFT(
=>?@AAAB>C?	L0-"0&%,36(^#%$,/&',b&/,#3(#5(^#9 0(8&"0(!&/,03/%(/V"#*6V(&(W0+>+&%02(8&"06,;0"($3/0";03/,#3	=#	DYYK(	DC(	DYYK(	DEYY(
=>?@AKET>C?	U^($33#;&/,#3(!&"/30"%V,$(8V##%0(U^(P,"%/(H-V#'&"%V,$(!"#6"&9	=#	DTC7CCC(	DC(	DTC7CCC(	DTC7CCC(
J>?@?C@C>CE	= * "%0(P&-*'/<(4#&3(!"#6"&9	=#	D?F@7K?Y(	DC(	D?F@7K?Y(	D?F@7K?Y(
		= * "%,367(8#''060(#5Q	AⅡBC		D@E?7YYE(
		= * "%,367(8#''060(#5Q	AⅡBC		D@E?7YYE(

U/V0"

12 9 ,3,%/"&/,#37(Z3"#'' 9 03/(&32(!'&-0 9 03/(H0";,-0%					
8>?CAY??>?F	: .(H/*203/(H*$$#"/(H0";,-0%	=#	D@?E7EFK(	D?T7T@B(	D@A?7?CA(
		12 9 ,3,%/"&/,#37(Z3"#'' 9 03/(&32(!'&-0 9 09			

12 9 ,3,%/"&/,#37(: 3%$0-,5,02

O"&2*&/0(H/*2,0%7(8#''060(#5

=>?@A@YF>C?	H,9*'/&30#*%(§3%*',3(&32(40$/,3(H,63&',36(,3(!UG8(=0*"#3%(!"#9#/0%(P0"/,',/<(&32(G0/&+#',-(^#90#%/&%,%(,3(G&'0(J#203/%	=#	DE@7@A@(	DC(	DE@7@A@(	DE@7@A@(
=>?@ABYC>C?	!&<903/(16"00903/(5#"(G*62V&(!&/N,	=#	D?C7CCC(	DC(	D?C7CCC(	
	O"&2*&/0(H/*2,0%7(8#''060(#5Q		@IICC		DKB7@A@(	

§350-/,#3(!"0;03/,#3(_(8#3/"#'

=>?@AF@B>C?	§(8&3(!"0;03/	=#	DE@7BCC(	DF7BCC(	DBC7CCC(	DBC7CCC(
	§350-/,#3(!"0;03/,#3(_(8#3/"#'Q		?IICC		DBC7CCC(	

§3/0"9#2&'(.&3%$#"/&/,#3(§3%/,/*/0

8>?@CT@K>CB	13&'<b,36(J06,#3&'(P"0,6V/(§35#"9&/,#3(J0%##*"-0%	=#	DTK7F@Y(	DA?7@F@(	D?CC7CC?(	DAC7CCC(
=>?@AC@Y>C?	8P§JZ>:.8(J0-#9$0/,/,#3	=#	DTK7F@Y(	DA?7@F?(	D?CC7CCC(	DC(
=>?@AKFF>C?	!V&%0(§(1-/,;,/,0%(H*$$#"/,36(!#"/(G&33(R",260(H/&<(8&+'0(§-0(!"0;03/,#3(&32(J09#;&'	=#	D??C7ETA(	D?Y7BKA(	D?AC7CET(	D?A7CCB(

U/V0"

U55,-0(#5(J0%0&"-V(&32(§33#;&/,#3

J>?CKTA@>?C	H*$$#"/(#5(16",-*'/*"&'(J0%0&"-V(#5(G*/*&'(§3/0"0%/	=#	DK7?K@(	DK?K(	DY7CCC(	DY7CCC(

U55,-0(#5(J0%0&"-V(&32(§33#;&/,#3Q	?‖CC		DY7CCC(

!"#;#%/7(Zd0-*/,;0(]!(1-&209,-(1⁵⁵&,"%

J>?CKKAT>CK	8&9$(12;03/*"0(I#*/V(H0";,-0%	=#	D@T7CCC(	DC(	D@T7CCC(	D@T7CCC(
J>?@@AEC>C@	H/*203/(1⁵",-&3(190",-&3(R"#/V0"V##2	=#	D@CB7CCC(	DC(	D@CB7CCC(	D@CB7CCC(
H>?@@AEC>C@>H?	H/*203/(1⁵",-&3(190",-&3(R"#/V0"V##2	=#	D?B7CCC(	DC(	D?B7CCC(	D?B7CCC(

!"#;#%/7(Zd0-*/,;0(]!(1-&209,-(1⁵⁵&,"	A‖CC		D@ET7CCC(

H&50/<(_(^0&'/V7(U55,-0

8>?C?CCF>CB	P,"%/(H$032,36(!'&3(^#%$,/&'(P*32,36fJ06,#3&'(^0&'/V-&"0(H<%/09(8##"2,3&/,#3(5#"(L,%&%/0"(!"0$&"0230%%	10%	DA@7TET(	DC(	DA@7TET(	DA@7TET(
=>?C?CCF>C?	P,"%/(H$032,36(!'&3(^#%$,/&'(P*32,36	10%	DA@7TET(	DC(	DA@7TET(	DA@7TET(
J>?C?CCF>C@	P,"%/(H$032,36(!'&3(^#%$,/&'(P*32,36	10%	DA@7TET(	DC(	DA@7TET(	DA@7TET(

U/V0"

J>?C?CCF>CE	P,"%/(H$032,36(!'&3(^#%$,/&'(P*32,36fJ06,#3&'(^0&'/V-&"0(H<%/09(8##"2,3&/,#3(5#"(L,%&%/0"(!"0$&"0230%%	I0%	DA@7TET(	DC(	DA@7TET(	DA@7TET(

				H&50/<(_(^0&'/V7(U55,-0Q	EⅡCC	D?AC7BKE(

J>?@AC@C>C@						D?7CC(

		803/0"(5#"(L"*6(L0%,63(&32(L0;0'#$9	CII@C	DBF7KCC(

G02,-,3&'(&32(R,#'#6,-&'(8V09,%/"<7(L0$&"/903/(#5

J>?@CTYT>CE	8"0&/,#3(#5(.##'%(5#"(/V0(H/*2<(#5(Ud,2&/,;0(L&9&60(/#(=*-'0,-(1-,2%	=#	D@CT7?KE(	DYA7K?T(	DACC7CCC(	DACC7CCC(

		G02,-,3&'(&32(R,#'#6,-&'(8V09,%/"<7(L	?IICC	DACC7CCC(

! V&" 9 &-#'#6<7(L0$&"/903/(#5

8>??C@ET>CB	.V0(J#'0%(#5(!",9&"<(8,',&(,3(8&"2,#;&%-*'&"(H<%/09	=#	D@CK7@F?(	DY?7TAY(	D@YY7Y?C(	D@YY7Y?C(
8>?@CK?B>CA	§35'*03-0(#5(^*9&3(O030(]&",&3/%(#3(/V0(Z550-/%(#5(L0;0'#$903/&'(G0^6(Zd$#%*"0	=#	D?B7?BE(	DT7TTK(	D@?7K@@(	D@?7K@@(
8>?@@?BE>CA	.V0(J#'0(#5(O4.?(,3(/V0(G#2*'&/,#3(#5(1'-#V#'>L",3N,36(R0V&;,#"(,3(!(J&/%	=#	D?ET7EFB(	DF@7YEE(	D@?Y7E?Y(	D?YF7EFF(
8>?@@YYB>C@	80''*'&"(5*3-/,#3(&32(%/"*-/*"0(#5($",9&"<(-,',&	=#	DAY7EA@(	DC(	DAY7EA@(	DAY7EA@(
=>?@@KYC>C?>1?	J06*'&/,#3(#5($4>T(902,&/02(,35'&99&/,#3(&32(/,%%*0(20%/"*-/,#3(+<(ZO8O	=#	D@?@7BCC(	D?CB7K@B(	DA?K7A@B(	DA?K7A@B(
=>?@@YK@>C?	8V09#/V0"&$0*/,-(J06*'&/,#3(#5(1*/#,99*3*3*3,/<(W,/V#*/(U;0"/(8</#/#d,-,/<	=#	DTA7CYB(	DT7A?C(	DTY7ECB(	

	! V&" 9 &-<(! "&-/,-07(L0$&"/ 9 03/(#5Q	AllCC	DE?7YKC(
	! V&" 9 &-<(_(! V&" 9 &-0*/,-&'(H-,03-0%7(8#	??ll?C	D?7AY?7CFK(

: 3,;0"%,/<(129,3,%/"&/,#3

.0-V3#'#6<(8#"",2#"

=>?@A?TB>C?	! '&% 9 #3,-(R&%02(R,# 9 &"N0"(H-&',36(.0-V3#'#6<(\: 3,;0"%,/<(.0-V3#'#6<(]&',2&/,#3(_(H/&"/>*$(P*32Q	=#	DBC7CCC(	DC(	DBC7CCC(	DC(
=>?@A?TT>C?>1?	$3c0-/&+'0(R#30(80 9 03/(\: 3,;0"%,/<(.0-V3#'#6<(]&',2&/,#3(&32(H/&"/>: $(P*32Q	=#	DBC7CCC(	DC(	DBC7CCC(	DC(
=>?@A?TF>C?>1?	P&-0/(H-"0X(H<%/09	=#	DAB7BCC(	DC(	DAB7BCC(	DC(
=>?@AA@B>C?	! "#6"&9($3-#9 0(>(R0//<(13b&'2*&	I0%	DT7F@C(	DC(	DT7F@C(	DT7F@C(
=>?@ABFF>C?	! G .(. V"# 9 +0-/# 9 <(L0;,-0	=#	DBC7CCC(	DC(	DBC7CCC(	DC(
J>?CYY@F>CB	O"&3/(W",/,36(H0";,-0%	=#	D@@A7YCF(	D?C7CEF(	D@AA7YBE(	D@AA7YBE(

: 3,;0"%,/<(1 2 9 ,3,%/"&/,#3

.0-V3#'#6<(8#"",2#"

J>?@@KYT>C@	Z2,%#3(.0-V3#'#6<(§3-*+&/,#3(!"#6"&9	=#	DKF7BCC(	DC(	DKF7BCC(	DKF7BCC(
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			.0-V3#'#6<(8#"",2#"Q	ElCC		DEYC7TFE(
			: 3,;0"%,/<(1 2 9 ,3,%/"&/,#3Q	ElCC		DEYC7TFE(

O"&32(.#/&'[

ETBlCC   DBE7TYE7TT@(