

Assessment ID	Sale ID	Vacant/improved	ASR
101012330	2016	Improved	0.85
121010780	2016	Vacant	1.02
200004850	2017	Vacant	0.72
220007158	2015	Vacant	0.99
220007188	2015	Vacant	1.00
220007234	2015	Vacant	1.24
221011320	2015	Vacant	0.99
260003770	2016	Improved	1.33
260016550	2016	Vacant	0.79
010000680	2016	Improved	1.03
010001250	2017	Improved	1.04
010001610	2015	Improved	0.91
010001670	2018	Improved	0.77
010003230	2018	Improved	0.75
010003890	2015	Improved	0.78
010004420	2017	Improved	1.05
010004920	2016	Improved	1.16
010005220	2018	Improved	1.52
010005400	2015	Improved	1.36
010006720	2017	Improved	0.99
010007120	2018	Improved	1.33
010014500	2017	Improved	0.79
010014740	2016	Improved	0.86
010014780	2017	Improved	1.06
010014870	2018	Improved	0.91
010014890	2015	Improved	0.94
010015220	2017	Improved	1.28
010015260	2018	Improved	1.40
010015310	2018	Improved	1.36
010015370	2016	Improved	1.05
010015970	2018	Improved	1.05
010016030	2017	Improved	0.94
010016120	2017	Improved	1.28
010016210	2017	Improved	1.03
010016240	2017	Improved	0.89
010016360	2015	Improved	0.90
010021910	2015	Improved	0.92
010021915	2017	Improved	1.26
010021920	2018	Improved	0.88
020010610	2018	Improved	0.99
020023340	2016	Improved	0.98
020024295	2015	Improved	0.97
100004730	2016	Improved	1.04
100004880	2017	Improved	0.84
100004960	2016	Improved	0.94
100005290	2018	Improved	1.03

100005380	2015 Improved	1.00
100005440	2017 Vacant	0.81
100005460	2017 Vacant	0.75
100005660	2016 Improved	1.07
100005670	2018 Improved	1.00
100005700	2016 Improved	1.00
100005730	2016 Improved	1.13
100005740	2015 Improved	0.81
100005820	2017 Improved	1.05
100005840	2018 Improved	1.27
100006400	2016 Improved	0.99
100006420	2016 Improved	1.07
100006710	2018 Vacant	0.97
100006800	2015 Improved	0.60
100006830	2018 Improved	1.13
100006870	2016 Improved	1.34
100007020	2018 Improved	1.32
100007040	2016 Improved	0.86
100007090	2015 Improved	0.88
100010017	2015 Improved	0.78
101000570	2017 Improved	0.71
101000590	2016 Improved	1.22
101000620	2016 Improved	1.81
101000630	2017 Improved	1.66
101000680	2016 Improved	1.18
101000690	2017 Improved	1.12
101000710	2016 Improved	0.96
101000730	2017 Improved	0.75
101000820	2015 Improved	0.71
101003300	2017 Improved	0.89
101003710	2017 Improved	1.08
101004210	2015 Improved	1.00
101004270	2015 Improved	1.13
101004320	2016 Improved	0.99
101004330	2016 Improved	1.24
101004410	2017 Improved	1.02
101004430	2015 Improved	0.74
101004480	2017 Improved	0.84
101004490	2018 Improved	1.80
101004670	2018 Improved	1.35
101005090	2015 Improved	0.97
101005100	2015 Improved	0.85
101005170	2015 Improved	0.96
101005220	2015 Improved	0.90
101005230	2017 Improved	1.27
101005290	2015 Improved	0.92
101005340	2017 Improved	0.99

101005350	2017 Improved	1.00
101005410	2018 Improved	0.77
101005420	2015 Improved	0.85
101005470	2016 Improved	1.20
101005510	2018 Improved	1.30
101005560	2016 Improved	1.19
101006480	2016 Improved	1.43
101006540	2016 Improved	0.77
101006580	2017 Improved	1.00
101006650	2016 Improved	0.84
101006700	2015 Improved	1.10
101007350	2018 Improved	0.91
101007510	2018 Improved	0.96
101007570	2015 Improved	1.02
101007580	2018 Improved	1.17
101007750	2016 Improved	0.81
101007790	2016 Improved	0.89
101007800	2017 Improved	1.06
101007950	2017 Improved	0.82
101008070	2016 Improved	0.96
101008080	2017 Improved	0.82
101008200	2015 Improved	1.03
101008370	2017 Improved	0.98
101008430	2016 Improved	1.00
101008780	2016 Improved	1.00
101008810	2016 Improved	0.84
101008870	2016 Improved	1.09
101008910	2016 Improved	1.03
101009420	2017 Improved	1.01
101009450	2018 Improved	1.03
101009650	2018 Improved	1.19
101009810	2016 Improved	1.13
101009820	2015 Improved	1.77
101009880	2015 Improved	0.96
101009920	2016 Improved	1.11
101010000	2017 Improved	1.01
101010030	2016 Improved	1.01
101010040	2015 Improved	1.05
101010090	2016 Improved	1.14
101010230	2018 Improved	0.87
101010270	2017 Improved	1.01
101011640	2015 Improved	0.96
101011830	2017 Improved	1.65
101011850	2015 Improved	0.87
101011880	2017 Improved	0.89
101011940	2018 Improved	1.01
101011960	2015 Improved	1.08

101011970	2017 Improved	0.91
101011990	2015 Improved	1.11
101012020	2015 Improved	1.19
101012110	2015 Improved	0.80
101012130	2016 Improved	0.87
101012230	2015 Improved	0.98
101012250	2015 Improved	0.89
101012350	2018 Improved	0.88
101012480	2016 Improved	1.02
101012500	2017 Improved	1.19
101012580	2016 Improved	1.40
101012650	2017 Improved	1.14
101012690	2017 Improved	1.01
101012700	2017 Improved	1.11
101012710	2016 Improved	0.78
101012770	2017 Improved	0.96
101012830	2016 Improved	0.76
101012910	2018 Improved	0.97
101013020	2017 Improved	0.93
101013130	2017 Improved	0.84
101013170	2017 Improved	0.89
101013340	2018 Improved	1.16
101013355	2018 Improved	1.12
101014630	2016 Improved	1.04
101014970	2016 Improved	1.25
101014980	2016 Improved	0.89
101015150	2017 Improved	1.05
101015180	2016 Improved	0.88
101015210	2017 Improved	1.18
101015280	2018 Improved	1.17
101015310	2015 Improved	1.03
101015340	2016 Improved	0.97
101015360	2015 Improved	0.93
101015400	2015 Improved	0.96
101015500	2015 Improved	0.94
102001240	2018 Improved	0.93
102001330	2015 Improved	1.03
102001340	2018 Improved	1.48
102001660	2017 Improved	0.92
102012420	2018 Improved	0.78
102012550	2016 Improved	1.17
102012570	2017 Improved	1.05
102012620	2018 Improved	1.00
102012690	2015 Improved	1.00
102012830	2018 Improved	0.98
102012840	2018 Improved	0.99
102012900	2017 Improved	1.11

102013160	2015 Improved	0.99
102013180	2015 Improved	0.93
102013190	2015 Improved	1.19
102013200	2015 Improved	1.02
102013220	2018 Improved	0.94
102013280	2015 Improved	0.95
102013480	2017 Improved	1.02
102013490	2015 Improved	0.90
102013510	2016 Improved	1.13
102013580	2017 Improved	0.93
102013640	2018 Improved	1.23
102013740	2015 Improved	1.07
102013830	2018 Improved	0.91
102013860	2015 Improved	1.10
102013930	2016 Improved	1.03
102014050	2016 Improved	1.03
102014070	2016 Improved	1.05
102014080	2017 Improved	0.98
102014110	2016 Improved	0.97
102014130	2016 Improved	0.92
102014140	2018 Improved	1.20
102014150	2015 Improved	1.21
102014230	2017 Improved	0.95
102014300	2016 Improved	1.15
102014310	2017 Improved	1.02
102014320	2018 Improved	1.04
102014510	2015 Improved	0.87
102014540	2017 Improved	1.02
102014570	2018 Improved	0.93
102014580	2015 Improved	1.08
102014590	2015 Improved	0.91
102014630	2016 Improved	0.89
102014660	2016 Improved	0.91
102014680	2017 Improved	0.97
102014710	2018 Improved	1.06
102014740	2018 Improved	0.96
102014850	2016 Improved	0.89
102014870	2017 Improved	0.97
102014875	2018 Improved	0.96
120001990	2018 Improved	2.40
120002290	2015 Improved	1.11
120002340	2015 Improved	1.05
120003140	2016 Improved	0.92
120003270	2018 Improved	0.96
120003300	2015 Improved	1.36
120003370	2015 Improved	0.89
120003390	2016 Improved	0.96

120003490	2016 Improved	1.15
120003980	2015 Improved	0.84
120003990	2015 Improved	0.87
120004040	2016 Improved	1.05
120004120	2016 Improved	1.52
120004130	2016 Vacant	1.10
120004150	2015 Improved	1.36
120004430	2017 Improved	1.02
120004540	2018 Improved	1.12
120004560	2016 Improved	1.10
120004670	2017 Improved	2.76
120004880	2018 Improved	0.96
120005120	2017 Improved	1.11
120005680	2015 Improved	0.89
120005710	2015 Improved	1.11
120005880	2017 Improved	2.55
120006370	2016 Improved	2.82
120006380	2015 Vacant	1.04
120006390	2016 Improved	1.24
120006400	2017 Improved	0.93
120006410	2015 Improved	1.09
120006800	2018 Improved	1.05
120007640	2015 Improved	1.31
120007820	2016 Improved	0.89
120007940	2018 Improved	0.83
120008080	2015 Improved	0.93
120008100	2016 Improved	0.88
120008130	2017 Improved	1.02
120008140	2015 Improved	0.83
120008460	2015 Improved	0.82
121000850	2017 Improved	1.13
121000900	2017 Improved	1.55
121000910	2016 Improved	1.61
121000970	2017 Improved	0.92
121001220	2017 Improved	1.44
121001420	2015 Improved	0.87
121001520	2018 Improved	0.90
121001640	2018 Improved	1.31
121001710	2016 Improved	1.03
121001740	2016 Improved	1.21
121001750	2015 Improved	1.50
121001770	2015 Improved	0.86
121001830	2018 Improved	1.08
121001860	2016 Improved	0.93
121001880	2016 Improved	0.96
121001890	2016 Improved	1.05
121001940	2015 Improved	1.01

121001950	2015 Improved	0.94
121002010	2017 Improved	1.08
121002020	2015 Improved	0.95
121002540	2015 Improved	0.70
121002610	2016 Improved	0.93
121002820	2015 Improved	0.71
121002870	2015 Improved	1.07
121003060	2018 Improved	1.88
121003150	2017 Improved	1.07
121003650	2018 Improved	0.92
121003900	2015 Improved	1.38
121003920	2015 Vacant	0.95
121004160	2018 Improved	0.99
121004320	2015 Improved	0.84
121004330	2015 Improved	0.93
121004350	2015 Improved	0.94
121004360	2015 Improved	1.04
121004400	2016 Improved	2.22
121004460	2016 Improved	0.87
121004560	2016 Improved	1.50
121004790	2017 Improved	2.58
121004810	2016 Improved	1.14
121004940	2018 Improved	0.95
121005190	2015 Improved	1.94
121005300	2015 Improved	0.84
121005420	2016 Improved	0.85
121005440	2015 Improved	0.79
121005460	2015 Improved	0.67
121005730	2015 Improved	0.76
121006490	2017 Vacant	2.28
121006520	2017 Vacant	2.27
121006530	2015 Vacant	1.00
121006540	2015 Vacant	1.03
121006590	2018 Improved	1.01
121006600	2018 Improved	1.00
121006750	2018 Improved	1.26
121006790	2015 Improved	1.01
121006840	2015 Improved	1.17
121006850	2017 Improved	1.16
121006860	2017 Improved	1.15
121008830	2015 Vacant	0.78
121008850	2016 Improved	1.23
121008860	2015 Improved	0.88
121008890	2018 Improved	1.03
121008950	2018 Improved	0.93
121008970	2015 Improved	0.97
121008980	2015 Improved	1.01

121009000	2015 Improved	1.02
121009005	2015 Improved	0.84
121009040	2016 Improved	1.30
121009120	2017 Improved	1.09
121009170	2017 Improved	1.24
121009290	2017 Improved	1.10
121009300	2017 Improved	1.23
121009320	2017 Improved	1.13
121009350	2015 Improved	0.90
121009360	2015 Improved	0.89
121009370	2015 Improved	1.04
121009390	2018 Improved	0.98
121009540	2015 Improved	1.08
121009590	2017 Improved	1.30
121009710	2018 Improved	0.94
121009760	2015 Improved	1.01
121009900	2017 Improved	1.24
121009960	2018 Improved	1.09
121010000	2018 Improved	1.15
121010010	2016 Improved	1.04
121010020	2017 Improved	0.90
121010100	2018 Improved	0.88
121010140	2018 Improved	0.89
121010150	2017 Improved	1.37
121010160	2018 Improved	1.00
121010190	2017 Improved	1.10
121010280	2018 Improved	0.96
121010410	2018 Improved	0.92
121010420	2015 Improved	0.87
121010650	2016 Improved	1.05
121010730	2016 Vacant	1.02
121034630	2017 Improved	1.15
121034710	2018 Improved	1.20
122000220	2017 Improved	1.15
122000250	2016 Improved	0.93
122000370	2018 Improved	1.04
122000380	2016 Improved	1.02
122000410	2016 Improved	1.05
122000460	2017 Improved	1.02
122000560	2017 Improved	1.00
122000610	2015 Improved	0.96
122000680	2015 Improved	1.07
122000740	2016 Improved	1.00
122000870	2018 Improved	0.86
122000870	2016 Vacant	1.24
122000880	2015 Improved	0.97
122000910	2018 Improved	0.94



122001040	2015 Vacant	0.58
122001140	2018 Improved	0.96
122001150	2015 Vacant	1.09
122001160	2015 Vacant	1.00
122001180	2015 Vacant	0.99
122001200	2015 Improved	0.98
122001200	2015 Vacant	1.00
122001210	2016 Improved	0.99
122001220	2016 Vacant	0.89
122001280	2016 Vacant	1.01
122001300	2017 Improved	1.00
122001400	2017 Vacant	0.87
122001440	2018 Vacant	0.80
122001450	2018 Vacant	0.80
122001500	2017 Vacant	0.89
122037092	2016 Improved	1.09
122037120	2017 Improved	0.92
122037130	2018 Improved	1.00
122037146	2015 Improved	0.94
122037150	2015 Improved	1.08
122037160	2018 Improved	0.89
122037170	2015 Improved	1.07
122037176	2018 Improved	1.05
122037200	2017 Improved	1.10
122037210	2018 Improved	0.85
122037216	2017 Improved	0.93
122037315	2016 Improved	1.10
122037320	2015 Vacant	1.00
140001260	2015 Improved	0.95
140001410	2015 Improved	0.99
140001453	2016 Improved	0.98
140001520	2017 Improved	0.99
140001600	2017 Improved	1.74
140001842	2015 Improved	0.90
140001844	2015 Improved	0.84
140001845	2015 Improved	1.06
140001849	2016 Improved	0.81
140001850	2015 Improved	1.07
140001880	2015 Improved	1.18
140001900	2017 Improved	0.98
140002010	2016 Improved	1.01
140002080	2018 Improved	1.03
140002210	2018 Improved	1.33
140002240	2018 Improved	1.37
140002370	2018 Improved	1.09
140002530	2015 Improved	1.42
140002560	2017 Improved	0.84

140002615	2017 Improved	1.59
140002780	2017 Improved	0.95
140002800	2016 Improved	0.90
140002820	2015 Improved	0.76
140002840	2015 Improved	0.95
140003080	2016 Improved	0.78
140003170	2018 Improved	0.98
140003180	2017 Improved	1.16
140003320	2016 Improved	1.30
140003350	2015 Improved	0.97
140003410	2015 Improved	0.92
140003580	2015 Improved	1.33
140003610	2018 Improved	0.89
140003610	2015 Improved	0.98
140003661	2016 Improved	1.07
140003680	2017 Improved	0.67
140003750	2016 Improved	1.01
141000160	2015 Improved	1.39
141000200	2018 Improved	1.29
141000245	2018 Improved	0.87
141000320	2018 Improved	1.30
141000420	2017 Improved	0.92
141000490	2016 Improved	1.02
141001020	2016 Improved	1.11
141001250	2015 Improved	1.00
141001310	2015 Improved	0.89
141001350	2016 Improved	0.92
141001360	2017 Improved	0.95
141001390	2017 Improved	0.78
141001580	2017 Improved	0.84
141001590	2017 Improved	0.96
141001760	2015 Improved	0.90
141002320	2017 Improved	1.33
141002390	2017 Improved	0.85
141002410	2017 Improved	1.23
141002570	2015 Improved	1.08
141002640	2016 Improved	0.97
141002680	2015 Improved	1.08
141002760	2015 Improved	0.83
141002910	2016 Improved	0.94
141002970	2015 Improved	0.99
141002980	2015 Improved	1.14
141002990	2016 Improved	0.99
141003050	2017 Improved	0.91
141003060	2017 Improved	1.08
141003070	2017 Improved	1.00
141003090	2015 Improved	0.98

141003210	2015 Improved	0.96
141003710	2016 Improved	1.26
141003860	2018 Improved	1.06
141003910	2017 Improved	1.10
141003920	2017 Improved	1.02
141003980	2018 Improved	0.89
141004170	2015 Improved	1.08
141004690	2017 Improved	1.01
141004700	2017 Improved	0.96
141004710	2017 Improved	0.97
141004720	2017 Improved	0.97
141004730	2017 Improved	0.97
141004740	2017 Improved	0.97
141004750	2017 Improved	0.97
141004760	2017 Improved	0.97
141004770	2017 Improved	0.97
141004780	2017 Improved	1.02
141004790	2017 Improved	1.02
141004810	2017 Improved	1.02
141004820	2017 Improved	0.97
141004830	2017 Improved	0.97
141004840	2017 Improved	0.97
141004850	2017 Improved	0.97
141004860	2017 Improved	0.97
141004870	2017 Improved	0.97
141004880	2017 Improved	1.02
141004900	2017 Improved	1.02
141004910	2017 Improved	1.02
141004920	2017 Improved	0.97
141004930	2017 Improved	0.97
141004940	2017 Improved	0.97
141004950	2017 Improved	0.97
141004960	2017 Improved	0.97
141004970	2017 Improved	0.97
141004980	2017 Improved	0.97
141004990	2017 Improved	0.97
141005000	2017 Improved	1.02
200000150	2015 Improved	0.61
200000500	2016 Improved	0.86
200000670	2015 Improved	0.98
200000680	2018 Improved	0.90
200000740	2017 Improved	1.02
200000780	2015 Improved	0.93
200001470	2015 Improved	0.85
200001660	2018 Improved	0.79
200001680	2018 Improved	0.81
200001770	2016 Improved	1.47

200001780	2015 Improved	0.96
200001790	2015 Improved	1.66
200001930	2016 Improved	1.57
200002030	2015 Improved	1.24
200002130	2017 Improved	1.84
200002140	2015 Improved	1.07
200002190	2016 Improved	0.94
200002220	2015 Improved	1.08
200002230	2017 Improved	1.14
200002290	2018 Vacant	1.03
200002410	2017 Improved	0.79
200002690	2016 Improved	0.95
200002750	2018 Improved	1.17
200002930	2015 Improved	0.81
200003020	2015 Improved	1.53
200003110	2016 Improved	0.95
200003150	2015 Improved	1.07
200003330	2015 Improved	0.90
200003400	2018 Improved	0.99
200003410	2018 Improved	0.75
200003960	2015 Improved	0.76
200003980	2017 Improved	1.03
200004020	2017 Improved	0.99
200004030	2015 Improved	0.92
200004190	2016 Improved	1.21
200004210	2015 Improved	1.03
200004230	2018 Improved	0.85
200004270	2018 Improved	1.22
200004340	2018 Improved	0.81
200004360	2016 Improved	0.99
200004400	2015 Improved	0.83
200004480	2016 Improved	1.50
200004740	2018 Improved	1.22
200004820	2016 Improved	1.55
200004910	2018 Improved	0.97
200004960	2017 Improved	1.02
200004980	2018 Improved	1.00
200005010	2016 Improved	1.44
200005060	2017 Improved	0.81
200005320	2017 Improved	1.26
200005330	2015 Improved	0.86
200005440	2017 Improved	1.28
200005460	2015 Improved	1.24
200005510	2017 Improved	2.06
200005540	2016 Improved	1.26
200005690	2016 Improved	0.95
200005880	2017 Improved	1.07

200005890	2015 Improved	0.87
200005940	2017 Improved	0.85
200006060	2016 Improved	0.99
200006070	2016 Improved	1.53
200006170	2018 Improved	0.83
200006260	2018 Improved	0.87
200006270	2018 Improved	0.89
200006490	2016 Improved	0.97
200006500	2016 Improved	0.93
200006530	2016 Improved	1.11
200006550	2016 Improved	0.87
200006560	2016 Improved	0.93
200006820	2018 Improved	1.09
200007100	2015 Improved	0.84
200007140	2018 Improved	1.07
200007230	2018 Improved	1.13
200007260	2016 Improved	1.40
200007380	2015 Improved	1.05
200007510	2016 Improved	2.05
200007590	2017 Improved	1.02
200007970	2017 Improved	1.74
200008090	2016 Improved	0.85
200008340	2016 Improved	0.92
200008480	2015 Improved	0.83
200008510	2018 Improved	0.94
200008590	2017 Improved	0.96
200008700	2016 Improved	0.98
200008830	2017 Improved	0.89
200008870	2018 Improved	0.75
200008880	2017 Improved	0.88
200008950	2016 Improved	0.90
200008970	2018 Improved	1.71
200009020	2016 Improved	1.02
200009070	2017 Improved	0.73
200009090	2017 Improved	0.92
200009110	2016 Improved	1.00
200009190	2016 Improved	0.85
200009200	2015 Improved	0.79
200009210	2016 Improved	1.04
200009420	2016 Improved	0.73
200009480	2018 Improved	1.53
200009590	2015 Improved	1.11
200009820	2015 Improved	0.91
200009820	2015 Improved	1.47
200009830	2015 Improved	1.00
201002840	2016 Improved	0.99
201002950	2016 Improved	1.30

201002990	2015 Improved	1.04
201003010	2017 Improved	1.03
201003040	2017 Improved	0.93
201003060	2017 Improved	0.73
201003500	2015 Improved	1.67
201003520	2015 Improved	1.08
201003550	2015 Improved	1.23
201003590	2017 Improved	1.46
201003610	2016 Improved	1.20
201003730	2017 Improved	1.21
201003930	2015 Improved	1.19
201004090	2016 Improved	0.89
201004200	2016 Improved	0.88
201004230	2016 Improved	1.02
201004240	2017 Improved	0.84
201004250	2018 Improved	1.08
201004380	2017 Improved	1.35
201004420	2016 Improved	1.00
201004430	2016 Improved	1.20
201004440	2015 Improved	1.13
201004700	2015 Improved	0.95
201004830	2016 Improved	1.05
201004860	2016 Improved	0.79
201004910	2015 Improved	0.94
201005070	2015 Improved	1.10
201005310	2016 Improved	0.92
201005360	2017 Improved	0.86
201005380	2018 Improved	1.67
201005440	2016 Improved	0.77
201005460	2017 Improved	0.95
201005560	2016 Improved	1.12
201005640	2017 Improved	0.90
201005650	2015 Improved	1.12
201005740	2017 Improved	1.11
201005790	2018 Improved	0.92
201005830	2016 Improved	1.02
201005920	2016 Improved	0.98
201005940	2018 Improved	1.16
201005980	2017 Vacant	1.25
201006140	2017 Improved	1.17
201006150	2018 Improved	1.11
201006160	2018 Improved	0.91
201006180	2017 Improved	1.05
201006290	2015 Improved	0.96
201006360	2015 Improved	0.89
201006370	2018 Improved	1.14
201006450	2016 Improved	1.43

201006470	2016 Improved	1.02
201006480	2016 Improved	1.01
201006590	2017 Improved	1.18
201006600	2017 Improved	0.81
201006640	2017 Improved	0.81
201006680	2016 Improved	1.02
201006720	2015 Improved	0.91
201007040	2015 Improved	1.01
201007210	2018 Improved	0.90
201007260	2018 Improved	1.31
201007340	2016 Improved	1.05
201007350	2015 Improved	1.13
201007480	2017 Improved	1.21
201007530	2018 Improved	0.80
201007540	2018 Improved	0.93
201007660	2018 Improved	1.00
201007710	2018 Improved	0.87
201007720	2015 Improved	1.04
201007840	2015 Improved	0.86
201007980	2015 Improved	1.19
201008080	2018 Improved	1.03
201008140	2015 Improved	0.96
201008150	2017 Improved	1.59
201008320	2016 Improved	1.02
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201008420	2016 Improved	0.86
201008570	2015 Improved	0.67
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201008770	2015 Improved	1.20
201008810	2017 Improved	0.93
201008830	2017 Improved	0.64
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201009050	2016 Improved	0.88
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201009080	2018 Improved	0.85
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201009130	2015 Improved	1.11
201009140	2016 Improved	0.87
201009210	2016 Improved	0.70
201009270	2018 Improved	1.37
201009290	2017 Improved	1.16
201009360	2015 Improved	0.92
201009410	2017 Improved	1.07
201009460	2016 Improved	1.12
201009470	2015 Improved	0.99
201009480	2015 Improved	0.95
201009490	2016 Improved	0.93

201009500	2015 Improved	0.97
201009510	2016 Improved	0.93
201009530	2016 Improved	1.00
201009540	2015 Improved	0.83
201009810	2015 Improved	1.06
201009830	2015 Improved	1.18
201009850	2018 Improved	1.81
201009870	2015 Improved	0.87
201009990	2016 Improved	1.00
201010000	2018 Improved	1.00
201010110	2015 Improved	1.20
201010160	2018 Improved	0.80
201010180	2015 Improved	0.93
201010200	2015 Improved	0.93
201010210	2015 Improved	0.96
201010220	2017 Improved	0.86
201010240	2015 Improved	0.93
201010270	2018 Improved	1.78
201010290	2017 Improved	1.05
201010300	2017 Improved	0.93
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201010580	2016 Improved	0.97
201010620	2017 Improved	1.02
201010640	2015 Improved	0.85
201010690	2016 Improved	0.86
201010750	2016 Improved	0.86
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201010780	2015 Improved	0.91
201010790	2018 Improved	1.15
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201010870	2018 Improved	0.79
201010950	2018 Improved	0.91
201010980	2017 Improved	1.21
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201011734	2015 Improved	0.88
201011738	2015 Improved	0.86
201011740	2018 Improved	0.86
201011800	2015 Improved	1.04
201011930	2015 Improved	0.82
201012030	2016 Improved	0.98
201012080	2015 Improved	1.02
201012480	2018 Improved	1.00



201012500	2017 Improved	1.08
201012520	2015 Improved	0.98
201012530	2015 Improved	0.77
201012660	2016 Improved	0.91
201012840	2018 Improved	1.04
201012880	2017 Improved	1.03
201012990	2017 Improved	0.91
201013130	2015 Improved	0.95
201013250	2018 Improved	1.07
201013290	2017 Improved	1.21
201013330	2017 Improved	0.98
201013370	2018 Improved	0.66
201013580	2018 Improved	1.48
201013620	2015 Improved	0.77
201013640	2018 Improved	0.81
201013720	2015 Improved	1.15
201013730	2017 Improved	1.01
201013750	2018 Improved	0.94
201013800	2016 Improved	1.01
201013850	2016 Improved	0.99
201013963	2015 Improved	0.91
201013970	2015 Improved	1.05
201014020	2018 Improved	1.02
201014100	2018 Improved	1.57
201014120	2016 Improved	1.06
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201014920	2018 Improved	1.02
201015140	2016 Improved	0.86
201015220	2015 Improved	0.98
201015230	2016 Improved	1.03
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202001810	2015 Improved	1.71
202001930	2016 Improved	0.87
202002220	2016 Improved	0.87
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202002500	2018 Improved	1.05
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202002830	2018 Improved	1.12
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202003180	2015 Improved	1.16
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202003360	2018 Improved	0.89
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202003480	2015 Improved	0.90
202003680	2017 Improved	1.59
202003730	2017 Improved	0.93
202003780	2015 Improved	1.20
202003900	2018 Improved	1.02
202003930	2015 Improved	1.07
202003950	2016 Improved	0.96
202004030	2016 Improved	1.32
202004065	2018 Improved	1.04
202004090	2018 Improved	0.88
202004108	2016 Improved	0.93
202004116	2017 Improved	0.95
202004118	2015 Improved	0.88
202004150	2018 Improved	0.83
202004170	2016 Improved	0.95
202004180	2015 Improved	0.99
202004185	2016 Improved	0.89
202004216	2018 Improved	0.80
202004228	2016 Improved	0.84
202004230	2016 Improved	1.03
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202005730	2018 Improved	0.94
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202007060	2015 Improved	1.05
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202007610	2015 Improved	1.07
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202007698	2016 Improved	1.02
202007702	2017 Improved	0.97
202007710	2016 Improved	0.98
202007735	2018 Improved	1.05
202007740	2015 Improved	1.08
202007755	2017 Improved	1.12
202007765	2017 Improved	1.06
202007770	2017 Improved	0.97
202007780	2018 Improved	1.07
202007810	2015 Improved	1.01
202007825	2015 Improved	1.01
202007835	2016 Improved	1.10
202007840	2015 Improved	0.92
202007855	2016 Improved	0.94
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202007865	2016 Improved	0.98
202007900	2018 Improved	1.01
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202007920	2018 Improved	0.98
202007925	2016 Improved	1.03
202008090	2015 Improved	1.06
202008160	2015 Improved	0.96
202008220	2017 Improved	0.81
202008300	2016 Improved	1.05
202008302	2016 Improved	1.07
202008410	2018 Improved	0.97
202008420	2018 Improved	0.98

202008520	2017 Improved	0.96
202008580	2016 Improved	0.94
203005510	2016 Improved	1.10
220000420	2018 Improved	0.98
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220000500	2016 Improved	1.13
220000590	2015 Improved	0.99
220000650	2018 Improved	0.87
220000657	2016 Improved	0.96
220000720	2017 Improved	0.82
220000960	2018 Improved	1.37
220001000	2015 Improved	0.79
220001080	2018 Improved	1.05
220001170	2017 Improved	0.97
220001190	2015 Improved	1.02
220001340	2018 Improved	1.66
220001350	2017 Improved	0.97
220001410	2018 Improved	1.21
220001510	2016 Improved	0.95
220001570	2015 Improved	1.47
220001640	2016 Improved	1.24
220001690	2017 Improved	0.88
220001730	2016 Improved	1.24
220001790	2016 Improved	0.95
220001800	2015 Improved	1.06
220002540	2018 Improved	0.91
220003240	2015 Improved	0.88
220003270	2017 Improved	1.44
220003330	2016 Improved	1.16
220003500	2015 Improved	1.08
220003580	2016 Improved	0.94
220003600	2018 Improved	0.95
220003610	2018 Improved	0.87
220003680	2015 Improved	2.23
220003740	2016 Improved	0.88
220003790	2017 Improved	0.98
220003820	2017 Improved	1.07
220004000	2015 Improved	1.24
220004055	2015 Improved	0.90
220004200	2015 Improved	0.97
220004230	2015 Improved	1.01
220004330	2016 Improved	0.94
220004360	2017 Improved	1.00
220004380	2018 Improved	1.08
220004390	2016 Improved	0.96
220004420	2016 Improved	0.95
220004450	2016 Improved	1.09

220004500	2015 Improved	1.00
220004600	2018 Improved	0.86
220004630	2016 Improved	1.01
220004670	2015 Improved	0.73
220004680	2017 Improved	1.12
220004700	2016 Improved	1.05
220004750	2017 Improved	1.03
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220005020	2016 Improved	1.08
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220007130	2016 Improved	1.06
220007150	2017 Vacant	1.03
220007154	2015 Vacant	0.99
220007156	2015 Vacant	0.99
220007156	2016 Improved	1.12
220007157	2016 Improved	0.94
220007159	2016 Improved	0.92

220007162	2016 Improved	1.05
220007170	2017 Vacant	0.90
220007184	2015 Vacant	1.00
220007186	2015 Improved	0.99
220007200	2015 Improved	1.07
220007204	2017 Improved	0.94
220007214	2015 Vacant	1.00
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220007218	2015 Vacant	1.00
220007218	2018 Improved	1.06
220007220	2018 Vacant	0.93
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220007222	2017 Vacant	0.91
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220007226	2015 Improved	0.93
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221011660	2015 Improved	1.03
221012020	2016 Improved	1.03
221012040	2015 Improved	1.02
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221012490	2016 Improved	1.23
221012630	2015 Improved	1.30
221012680	2015 Improved	0.92
221012770	2015 Improved	0.90
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221014360	2018 Improved	0.92
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221016160	2017 Improved	1.08
221016200	2018 Improved	0.95
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221016240	2017 Improved	1.09
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222008090	2018 Improved	0.96
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222012160	2018 Improved	1.08
222012190	2018 Improved	1.06
222012200	2017 Improved	1.08
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240001180	2017 Improved	1.20
240001230	2016 Improved	1.03

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240001660	2016 Improved	1.30
240001690	2017 Improved	1.08
240001770	2017 Improved	0.91
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240001905	2017 Improved	1.22
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240002370	2017 Improved	0.97
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300000800.0003	2015 Improved	1.03
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300000800.0012	2018 Improved	1.15
300000800.0018	2016 Improved	1.02
300000800.0023	2017 Improved	1.17
300000800.0026	2018 Improved	0.98
300000800.0027	2015 Improved	1.08
300000800.0033	2017 Improved	1.23
300000800.0038	2018 Improved	1.05
300000800.0048	2015 Improved	0.94
300000800.0049	2015 Improved	1.05
300000875.0001	2015 Improved	1.05
300000875.0002	2015 Improved	0.95
300000875.0003	2016 Improved	1.00
300000875.0017	2016 Improved	1.10

300000875.0021	2015 Improved	1.14
300000875.0024	2017 Improved	0.93
300000875.0025	2018 Improved	1.00
300000875.0026	2015 Improved	0.87
300000885.0003	2017 Improved	0.91
300000885.0004	2016 Improved	1.10
300000885.0005	2017 Improved	0.90
300000885.0006	2017 Improved	0.91
300000885.0007	2016 Improved	0.98
300000885.0009	2016 Improved	1.12
300000885.0011	2016 Improved	1.09
300000885.0012	2017 Improved	0.90
300000885.0013	2016 Improved	1.02
300000885.0015	2016 Improved	1.03
300000885.0018	2018 Improved	0.76
300000885.0019	2016 Improved	1.10
300000885.0020	2015 Improved	1.08
300000885.0021	2018 Improved	0.91
300000885.0022	2016 Improved	0.94
300000885.0023	2016 Improved	1.06
300000885.0024	2018 Improved	0.91
300000900.0002	2015 Improved	1.09
300000900.0003	2016 Improved	0.93
300000900.0004	2015 Improved	0.82
300000930.0001	2016 Improved	0.92
300000930.0002	2015 Improved	0.96
300000930.0003	2018 Improved	1.11
300000930.0004	2017 Improved	0.80
300000930.0009	2016 Improved	0.87
300000950.0006	2018 Improved	0.76
300000950.0012	2016 Improved	1.01
300001000.0004	2017 Improved	0.75
300001000.0008	2015 Improved	0.94
300001100.0014	2016 Improved	1.18
300001100.0018	2017 Improved	1.13
300001100.0020	2018 Improved	0.97
300001150.0002	2016 Improved	0.75
300001150.0011	2017 Improved	0.87
300001200.0005	2018 Improved	1.00
300001300.0016	2015 Improved	1.00
300001320.0001	2016 Improved	0.93
300001320.0002	2016 Improved	1.03
300001320.0003	2016 Improved	1.03
300001320.0004	2016 Improved	0.93
300001320.0005	2016 Improved	1.03
300001320.0006	2016 Improved	1.03
300001500.0001	2016 Improved	1.31

300001500.0002	2015 Improved	1.28
300001575.0001	2016 Improved	1.08
300001575.0007	2018 Improved	0.89
300001575.0015	2018 Improved	0.92
300001575.0016	2017 Improved	1.07
300001600.0003	2018 Improved	1.08
300001600.0004	2018 Improved	0.84
300001600.0020	2015 Improved	0.82
300001600.0024	2015 Improved	0.92
300001650.0001	2017 Improved	0.81
300001650.0009	2017 Improved	0.99
300001650.0011	2017 Improved	0.93
300001650.0018	2017 Improved	0.95
300001650.0022	2018 Improved	0.97
300001650.0023	2016 Improved	1.05
300001650.0025	2017 Improved	0.97
300001650.0048	2017 Improved	1.01
300001650.0052	2016 Improved	1.05
300001650.0053	2017 Improved	0.94
300001750.0007	2017 Improved	0.97
300001750.0016	2015 Improved	1.10
300001770.0010	2017 Improved	1.07
300001770.0017	2015 Improved	0.92
300001770.0043	2017 Improved	0.99
300001770.0047	2017 Improved	0.96
300001770.0048	2015 Improved	0.98
300001770.0052	2016 Improved	1.06
300001770.0058	2018 Improved	1.03
300001775.0003	2017 Improved	0.92
300001775.0010	2017 Improved	0.94
300001775.0011	2017 Improved	0.96
300001775.0012	2015 Improved	1.16
300001775.0015	2016 Improved	1.12
300001775.0022	2017 Improved	1.14
300001775.0023	2017 Improved	0.94
300001775.0026	2017 Improved	1.03
300001775.0033	2015 Improved	0.99
300001775.0034	2015 Improved	1.05
300001775.0038	2015 Improved	1.01
300001775.0041	2016 Improved	1.04
300001775.0042	2017 Improved	0.94
300001775.0043	2017 Improved	1.00
300001775.0047	2017 Improved	0.97
300001775.0051	2015 Improved	0.81
300001800.0002	2015 Improved	0.91
300001800.0011	2016 Improved	0.96
300001800.0021	2015 Improved	1.09



300001800.0026	2017 Improved	0.93
300001800.0032	2018 Improved	1.04
300001800.0035	2015 Improved	1.18
300001800.0039	2015 Improved	0.98
300001800.0041	2017 Improved	0.93
300001800.0045	2015 Improved	1.26
300001800.0046	2018 Improved	1.19
300001800.0059	2015 Improved	0.90
300001800.0071	2016 Improved	0.99
300001800.0076	2015 Improved	0.84
300001800.0082	2016 Improved	1.04
300001800.0084	2018 Improved	0.97
300001800.0096	2016 Improved	1.00
300001800.0099	2016 Improved	0.78
300001800.0104	2018 Improved	1.20
300001800.0106	2017 Improved	1.36
300001800.0110	2017 Improved	0.83
300001800.0114	2017 Improved	1.49
300001850.0004	2018 Improved	1.06
300001850.0005	2018 Improved	1.04
300001850.0006	2015 Improved	1.08
300001850.0007	2016 Improved	1.05
300001850.0016	2017 Improved	1.00
300001850.0025	2017 Improved	0.94
300001850.0030	2018 Improved	1.02
300001875.0001	2015 Improved	0.93
300001875.0003	2018 Improved	0.97
300001875.0004	2017 Improved	1.01
300001875.0006	2016 Improved	1.11
300001875.0009	2015 Improved	0.98
300001875.0013	2017 Improved	0.89
300001875.0015	2017 Improved	0.93
300001875.0016	2015 Improved	1.01
300001875.0017	2015 Improved	1.03
300001875.0018	2018 Improved	0.91
300001875.0019	2016 Improved	1.00
300001875.0022	2015 Improved	1.10
300001875.0023	2015 Improved	1.21
300001975.0008	2016 Improved	0.91
300001975.0009	2016 Improved	1.01
300001975.0011	2016 Improved	0.82
300001975.0013	2015 Improved	1.09
300001975.0014	2015 Improved	1.07
300001975.0016	2015 Improved	0.95
300001975.0020	2015 Improved	1.05
300001975.0027	2016 Improved	0.91
300001975.0028	2016 Improved	0.99

300001975.0030	2015 Improved	1.04
300001975.0038	2016 Improved	0.83
300001975.0040	2016 Improved	0.97
300001975.0041	2015 Improved	1.04
300001975.0043	2015 Improved	0.99
300001975.0044	2016 Improved	0.73
300001975.0053	2015 Improved	0.91
300001975.0054	2016 Improved	1.07
300001975.0055	2015 Improved	0.98
300001975.0057	2015 Improved	1.07
300001975.0060	2017 Improved	0.89
300001975.0065	2015 Improved	0.83
300001975.0067	2015 Improved	1.04
300001975.0068	2017 Improved	0.90
300001975.0070	2015 Improved	1.07
300001975.0072	2015 Improved	1.11
300001975.0081	2015 Improved	1.12
300001975.0082	2015 Improved	0.98
300001975.0083	2016 Improved	0.79
300001975.0084	2015 Improved	1.18
300001975.0087	2018 Improved	0.93
300001975.0089	2015 Improved	0.90
300001975.0091	2016 Improved	0.79
300001975.0094	2016 Improved	1.11
300002050.0004	2018 Improved	0.98
300002050.0007	2017 Improved	1.10
300002050.0012	2018 Improved	1.00
300002050.0013	2018 Improved	1.10
300002050.0016	2018 Improved	1.01
300002100.0002	2016 Improved	1.09
300002100.0003	2016 Improved	1.08
300002100.0005	2017 Improved	1.08
300002100.0006	2016 Improved	1.10
300002100.0007	2017 Improved	1.10
300002100.0012	2016 Improved	1.10
300002100.0014	2018 Improved	1.01
300002100.0015	2016 Improved	1.02
300002200.0001	2015 Improved	1.09
300002200.0007	2017 Improved	0.94
300002200.0008	2016 Improved	0.88
300002200.0009	2016 Improved	1.06
300002200.0010	2018 Improved	0.92
300002200.0011	2018 Improved	0.98
300002200.0012	2015 Improved	1.05
300002200.0013	2016 Improved	1.02
300002200.0014	2015 Improved	1.01
300002200.0015	2016 Improved	1.01

300002200.0016	2016 Improved	0.97
300002200.0017	2016 Improved	1.11
300002200.0018	2016 Improved	0.99
300002200.0019	2015 Improved	1.01
300002200.0020	2017 Improved	0.94
300301650.0001	2015 Improved	0.87