

65,000

Takeoff

	1	2	3	4
V_1	99	95	96	95
V_R	100	105	101	102
V_2	118	115	114	114
V_{FS}	156	156	156	156

Go Around

	2	4
V_{AC}	133	118

Landing

	5	FULL
V_{REF}	109	102

66,000

Takeoff

	1	2	3	4
V_1	100	96	96	95
V_R	110	106	102	102
V_2	119	116	114	114
V_{FS}	157	157	157	157

Go Around

V_{AC}

2	4
134	119

Landing

V_{REF}

5	FULL
110	103

67,000

Takeoff

	1	2	3	4
V_1	101	98	97	96
V_R	111	107	103	102
V_2	120	117	115	114
V_{FS}	158	158	158	158

Go Around

	2	4
V_{AC}	135	120

Landing

	5	FULL
V_{REF}	110	104

68,000

Takeoff

	1	2	3	4
V_1	102	99	98	96
V_R	112	108	103	103
V_2	121	118	115	114
V_{FS}	160	160	160	160

Go Around

 V_{AC}

	2	4
	136	121

Landing

 V_{REF}

	5	FULL
	111	104

69,000

Takeoff

	1	2	3	4
V_1	103	100	99	97
V_R	113	109	104	103
V_2	122	119	116	114
V_{FS}	161	161	161	161

Go Around

	2	4
V_{AC}	137	122

Landing

	5	FULL
V_{REF}	112	105

70,000

Takeoff

	1	2	3	4
V_1	104	101	99	97
V_R	114	110	105	104
V_2	122	119	116	114
V_{FS}	162	162	162	162

Go Around

 V_{AC}

2

138

4

122

Landing

 V_{REF}

5

113

FULL

106

71,000

Takeoff

	1	2	3	4
V_1	105	102	100	98
V_R	115	111	106	104
V_2	123	120	117	114
V_{FS}	163	163	163	163

Go Around

	2	4
V_{AC}	139	123

Landing

	5	FULL
V_{REF}	114	107

72,000

Takeoff

	1	2	3	4
V_1	107	104	101	98
V_R	116	112	106	104
V_2	124	121	117	115
V_{FS}	164	164	164	164

Go Around

 V_{AC}

2	4
140	124

Landing

 V_{REF}

5	FULL
114	107

73,000

Takeoff

	1	2	3	4
V_1	108	105	102	99
V_R	117	113	107	105
V_2	125	122	118	115
V_{FS}	165	165	165	165

Go Around

V_{AC}

	2	4
	141	125

Landing

V_{REF}

	5	FULL
	115	108

74,000

Takeoff

	1	2	3	4
V_1	109	106	103	99
V_R	118	114	108	105
V_2	126	123	118	115
V_{FS}	167	167	167	167

Go Around

	2	4
V_{AC}	142	126

Landing

	5	FULL
V_{REF}	116	109

75,000

Takeoff

	1	2	3	4
V_1	110	107	104	100
V_R	119	115	109	106
V_2	127	123	119	115
V_{FS}	168	168	168	168

Go Around

	2	4
V_{AC}	143	127

Landing

	5	FULL
V_{REF}	117	110

76,000

Takeoff

	1	2	3	4
V_1	111	108	104	100
V_R	120	116	110	106
V_2	127	124	119	115
V_{FS}	169	169	169	169

Go Around

V_{AC}

	2	4
	144	128

Landing

V_{REF}

	5	FULL
	118	110

77,000

Takeoff

	1	2	3	4
V_1	112	110	105	101
V_R	121	117	110	107
V_2	128	125	120	116
V_{FS}	170	170	170	170

Go Around

	2	4
V_{AC}	145	128

Landing

	5	FULL
V_{REF}	118	111

78,000

Takeoff

	1	2	3	4
V_1	113	111	106	102
V_R	122	118	111	107
V_2	129	126	120	116
V_{FS}	171	171	171	171

Go Around

V_{AC}

2
146

4
129

Landing

V_{REF}

5
119

FULL
112

79,000

Takeoff

	1	2	3	4
V_1	114	112	107	102
V_R	123	119	112	108
V_2	130	127	121	116
V_{FS}	172	172	172	172

Go Around

V_{AC}

2

147

4

130

Landing

V_{REF}

5

120

FULL

113

80,000

Takeoff

	1	2	3	4
V_1	116	113	108	103
V_R	124	120	113	108
V_2	131	127	121	117
V_{FS}	173	173	173	173

Go Around

 V_{AC}

2	4
148	131

Landing

 V_{REF}

5	FULL
121	113

81,000

Takeoff

	1	2	3	4
V_1	117	114	109	104
V_R	125	121	113	109
V_2	132	128	122	117
V_{FS}	174	174	174	174

Go Around

		2		4
V_{AC}		149		132

Landing

		5		FULL
V_{REF}		121		114

82,000

Takeoff

	1	2	3	4
V_1	118	115	110	104
V_R	126	122	114	109
V_2	132	129	122	117
V_{FS}	175	175	175	175

Go Around

V_{AC}

2

150

4

133

Landing

V_{REF}

5

122

FULL

115

83,000

Takeoff

	1	2	3	4
V_1	119	117	111	105
V_R	127	123	115	110
V_2	133	130	123	118
V_{FS}	176	176	176	176

Go Around

V_{AC}

2
151

4
133

Landing

V_{REF}

5
123

FULL
115

84,000

Takeoff

	1	2	3	4
V_1	120	118	112	106
V_R	128	124	116	110
V_2	134	131	124	118
V_{FS}	177	177	177	177

Go Around

V_{AC}

	2	4
	151	134

Landing

V_{REF}

	5	FULL
	124	116

85,000

Takeoff

	1	2	3	4
V_1	121	119	113	106
V_R	129	125	117	111
V_2	135	131	124	119
V_{FS}	178	178	178	178

Go Around

	2		4
V_{AC}	152		135

Landing

	5		FULL
V_{REF}	124		117

86,000

Takeoff

	1	2	3	4
V_1	122	120	113	107
V_R	130	126	117	112
V_2	136	132	125	119
V_{FS}	179	179	179	179

Go Around

 V_{AC}

2	4
153	136

Landing

 V_{REF}

5	FULL
125	117

87,000

Takeoff

	1	2	3	4
V_1	123	121	114	108
V_R	131	127	118	112
V_2	136	133	125	119
V_{FS}	180	180	180	180

Go Around

		2		4
V_{AC}		154		136

Landing

		5		FULL
V_{REF}		126		118

88,000

Takeoff

	1	2	3	4
V_1	124	122	115	109
V_R	132	128	119	113
V_2	137	134	126	120
V_{FS}	181	181	181	181

Go Around

V_{AC}

2

155

4

137

Landing

V_{REF}

5

127

FULL

119

89,000

Takeoff

	1	2	3	4
V_1	125	123	116	110
V_R	133	129	120	114
V_2	138	134	127	120
V_{FS}	182	182	182	182

Go Around

	2	4
V_{AC}	156	138

Landing

	5	FULL
V_{REF}	127	119

90,000

Takeoff

	1	2	3	4
V_1	126	124	117	110
V_R	133	130	121	114
V_2	139	135	127	121
V_{FS}	183	183	183	183

Go Around

	2	4
V_{AC}	157	139

Landing

	5	FULL
V_{REF}	128	120

91,000

Takeoff

	1	2	3	4
V_1	128	125	118	111
V_R	134	131	122	115
V_2	140	136	128	121
V_{FS}	184	184	184	184

Go Around

	2	4
V_{AC}	158	140

Landing

	5	FULL
V_{REF}	129	121

92,000

Takeoff

	1	2	3	4
V_1	129	126	119	112
V_R	135	131	122	116
V_2	140	137	129	122
V_{FS}	186	186	186	186

Go Around

 V_{AC}

2

159

4

140

Landing

 V_{REF}

5

129

FULL

122

93,000

Takeoff

	1	2	3	4
V_1	130	128	120	113
V_R	136	132	123	116
V_2	141	137	129	122
V_{FS}	187	187	187	187

Go Around V_{AC}

2

159

4

141

Landing V_{REF}

5

130

FULL

122

94,000

Takeoff

	1	2	3	4
V_1	131	129	121	114
V_R	137	133	124	117
V_2	142	138	130	123
V_{FS}	188	188	188	188

Go Around

V_{AC}

2
160

4
142

Landing

V_{REF}

5
131

FULL
123

95,000

Takeoff

	1	2	3	4
V_1	132	130	122	115
V_R	138	134	125	118
V_2	143	139	131	124
V_{FS}	189	189	189	189

Go Around

2

4

V_{AC}

161

143

Landing

5

FULL

V_{REF}

131

123

96,000

Takeoff

	1	2	3	4
V_1	133	131	123	116
V_R	139	135	126	119
V_2	143	140	131	124
V_{FS}	190	190	190	190

Go Around

V_{AC}

2
162

4
143

Landing

V_{REF}

5
132

FULL
124

97,000

Takeoff

	1	2	3	4
V_1	134	132	124	117
V_R	140	136	127	119
V_2	144	140	132	125
V_{FS}	190	190	190	190

Go Around

V_{AC}

	2	4
	163	144

Landing Overweight

V_{REF}

	5	FULL
	133	125

98,000

Takeoff

	1	2	3	4
V_1	135	133	125	118
V_R	140	137	128	120
V_2	145	141	133	126
V_{FS}	191	191	191	191

Go Around

 V_{AC}

	2	4
	164	145

Landing Overweight

 V_{REF}

	5	FULL
	134	125

99,000

Takeoff

	1	2	3	4
V_1	136	134	126	119
V_R	141	138	128	121
V_2	146	142	133	126
V_{FS}	192	192	192	192

Go Around

	2	4
V_{AC}	165	146

Landing Overweight

	5	FULL
V_{REF}	134	126

100,000

Takeoff

	1	2	3	4
V_1	137	135	128	119
V_R	142	139	129	122
V_2	146	142	134	127
V_{FS}	193	193	193	193

Go Around

 V_{AC}

	2	4
	165	146

Landing Overweight

 V_{REF}

	5	FULL
	135	127

101,000

Takeoff

	1	2	3	4
V_1	138	136	120	121
V_R	143	139	130	123
V_2	147	143	135	128
V_{FS}	194	194	194	194

Go Around

V_{AC}

	2	4
	166	147

Landing Overweight

V_{REF}

	5	FULL
	136	127

102,000

Takeoff

	1	2	3	4
V_1	139	137	130	122
V_R	144	140	131	124
V_2	148	144	136	128
V_{FS}	195	195	195	195

Go Around

V_{AC}

	2	4
	167	148

Landing Overweight

V_{REF}

	5	FULL
	136	128

103,000

Takeoff

	1	2	3	4
V_1	140	138	131	123
V_R	145	141	132	124
V_2	148	145	136	120
V_{FS}	196	196	196	196

Go Around

	2	4
V_{AC}	168	149

Landing Overweight

	5	FULL
V_{REF}	137	129

104,000

Takeoff

	1	2	3	4
V_1	141	139	132	124
V_R	145	142	133	125
V_2	149	145	137	130
V_{FS}	197	197	197	197

Go Around

V_{AC}

	2	4
	169	149

Landing Overweight

V_{REF}

	5	FULL
	138	129

105,000

Takeoff

	1	2	3	4
V_1	143	140	133	124
V_R	146	143	134	126
V_2	150	146	138	131
V_{FS}	198	198	198	198

Go Around

	2	4
V_{AC}	169	150

Landing Overweight

	5	FULL
V_{REF}	138	130

106,000

Takeoff

	1	2	3	4
V_1	144	141	134	126
V_R	147	144	135	127
V_2	151	147	139	131
V_{FS}	199	199	199	199

Go Around

V_{AC}

2	4
170	151

Landing Overweight

V_{REF}

5	FULL
139	130

107,000

Takeoff

	1	2	3	4
V_1	145	142	135	127
V_R	148	144	136	128
V_2	151	147	139	132
V_{FS}	200	200	200	200

Go Around

	2	4
V_{AC}	171	151

Landing Overweight

	5	FULL
V_{REF}	140	131

108,000

Takeoff

	1	2	3	4
V_1	146	143	136	128
V_R	149	145	136	129
V_2	152	148	140	133
V_{FS}	201	201	201	201

Go Around

 V_{AC}

	2	4
	172	152

Landing Overweight

 V_{REF}

	5	FULL
	140	132

109,000

Takeoff

	1	2	3	4
V_1	147	144	137	129
V_R	149	146	137	130
V_2	153	149	141	134
V_{FS}	202	202	202	202

Go Around

	2	4
V_{AC}	173	153

Landing Overweight

	5	FULL
V_{REF}	141	132

110,000

Takeoff

	1	2	3	4
V_1	148	145	138	130
V_R	150	147	138	131
V_2	153	149	142	135
V_{FS}	203	203	203	203

Go Around

V_{AC}

2

173

4

154

Landing Overweight

V_{REF}

5

142

FULL

133

111,000

Takeoff

	1	2	3	4
V_1	149	146	139	132
V_R	151	148	139	132
V_2	154	150	143	136
V_{FS}	204	204	204	204

Go Around

V_{AC}

	2	4
	174	154

Landing Overweight

V_{REF}

	5	FULL
	142	134

112,000

Takeoff

	1	2	3	4
V_1	150	147	140	133
V_R	152	148	140	133
V_2	155	151	143	137
V_{FS}	205	205	205	205

Go Around

V_{AC}

2	4
175	155

Landing Overweight

V_{REF}

5	FULL
143	134

113,000

Takeoff

	1	2	3	4
V_1	151	148	141	134
V_R	152	149	141	134
V_2	155	151	144	137
V_{FS}	206	206	206	206

Go Around

V_{AC}

	2	4
	176	156

Landing Overweight

V_{REF}

	5	FULL
	144	135

114,000

Takeoff

	1	2	3	4
V_1	152	149	142	135
V_R	153	150	142	135
V_2	156	152	145	138
V_{FS}	207	207	207	207

Go Around

	2	4
V_{AC}	177	156

Landing Overweight

	5	FULL
V_{REF}	144	135