



# Upper Barataria Basin, Louisiana Feasibility Report



**Appendix A: Annex 9 – Probability Masses Spreadsheet**

**December 2021**

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TC	Region	Intensity	LF-Lon	Head	Cp	Vf	Rmax	Prob
ID	(W,E)	(H,L)	(deg)	(deg)	mb	(kt)	(nmi)	Mass
1	E	H	-91.07	-22.3	960	12	11	1.1608E-03
2	E	H	-91.07	-22.3	960	11	21	1.2225E-03
3	E	H	-91.07	-22.3	960	11	35.6	5.4589E-04
4	E	H	-91.07	-22.3	930	12	8	1.5640E-04
5	E	H	-91.07	-22.3	930	11	17.7	4.3813E-04
6	E	H	-91.07	-22.3	930	11	25.8	2.3699E-04
7	E	H	-91.07	-22.3	900	12	6	7.0298E-05
8	E	H	-91.07	-22.3	900	11	14.9	4.9316E-04
9	E	H	-91.07	-22.3	900	11	21.8	3.4761E-04
10	E	H	-90.34	-11.0	960	11	11	1.1433E-03
11	E	H	-90.34	-11.0	960	11	21	1.1945E-03
12	E	H	-90.34	-11.0	960	11	35.6	5.2632E-04
13	E	H	-90.34	-11.0	930	11	8	1.6138E-04
14	E	H	-90.34	-11.0	930	11	17.7	4.5137E-04
15	E	H	-90.34	-11.0	930	11	25.8	2.3883E-04
16	E	H	-90.34	-11.0	900	11	6	7.0134E-05
17	E	H	-90.34	-11.0	900	11	14.9	5.1499E-04
18	E	H	-90.34	-11.0	900	11	21.8	3.5403E-04
19	E	H	-89.83	-2.8	960	11	11	1.3492E-03
20	E	H	-89.83	-2.8	960	11	21	1.2539E-03
21	E	H	-89.83	-2.8	960	11	35.6	5.3655E-04
22	E	H	-89.83	-2.8	930	11	8	2.0102E-04
23	E	H	-89.83	-2.8	930	11	17.7	5.0286E-04
24	E	H	-89.83	-2.8	930	11	25.8	2.5367E-04
25	E	H	-89.83	-2.8	900	11	6	8.1829E-05
26	E	H	-89.83	-2.8	900	11	14.9	5.9134E-04

27	27	E	H	-89.83	-2.8	900	11	21.8	3.8527E-04
28	28	E	H	-89.29	2.6	960	11	11	3.4425E-03
29	29	E	H	-89.29	2.6	960	11	21	4.4825E-03
30	30	E	H	-89.29	2.6	960	11	35.6	2.0606E-03
31	31	E	H	-89.29	2.6	930	11	8	2.9569E-04
32	32	E	H	-89.29	2.6	930	11	17.7	1.1413E-03
33	33	E	H	-89.29	2.6	930	11	25.8	6.6123E-04
34	34	E	H	-89.29	2.6	900	11	6	1.6839E-04
35	35	E	H	-89.29	2.6	900	11	14.9	1.1951E-03
36	36	E	H	-89.29	2.6	900	11	21.8	9.4848E-04
37	37	E	H	-88.53	5.5	960	11	11	1.1317E-03
38	38	E	H	-88.53	5.5	960	11	21	1.0497E-03
39	39	E	H	-88.53	5.5	960	11	35.6	4.5048E-04
40	40	E	H	-88.53	5.5	930	11	8	1.4741E-04
41	41	E	H	-88.53	5.5	930	11	17.7	3.6866E-04
42	42	E	H	-88.53	5.5	930	11	25.8	1.8593E-04
43	43	E	H	-88.53	5.5	900	11	6	5.9641E-05
44	44	E	H	-88.53	5.5	900	11	14.9	4.3397E-04
45	45	E	H	-88.53	5.5	900	11	21.8	2.8205E-04
46	46	E	H	-91.11	-45.2	960	11	18.2	1.6096E-05
47	47	E	H	-91.11	-45.2	960	11	24.6	8.7270E-06
48	48	E	H	-91.11	-45.2	900	11	12.5	4.8054E-06
49	49	E	H	-91.11	-45.2	900	11	18.4	4.6144E-06
50	50	E	H	-90.37	-45.2	960	11	18.2	1.5615E-05
51	51	E	H	-90.37	-45.2	960	11	24.6	8.1277E-06
52	52	E	H	-90.37	-45.2	900	11	12.5	5.1579E-06
53	53	E	H	-90.37	-45.2	900	11	18.4	4.6938E-06
54	54	E	H	-89.84	-45.1	960	11	18.2	1.6674E-05

55	55	E	H	-89.84	-45.1	960	11	24.6	8.4772E-06
56	56	E	H	-89.84	-45.1	900	11	12.5	5.5518E-06
57	57	E	H	-89.84	-45.1	900	11	18.4	4.9042E-06
58	58	E	H	-89.29	-45.1	960	12	18.2	1.7265E-05
59	59	E	H	-89.29	-45.1	960	12	24.6	8.9085E-06
60	60	E	H	-89.29	-45.1	900	11	12.5	5.0463E-06
61	61	E	H	-89.29	-45.1	900	12	18.4	4.7841E-06
62	66	E	H	-91.06	22.3	960	11	18.2	1.6259E-03
63	67	E	H	-91.06	22.3	960	11	24.6	8.7799E-04
64	68	E	H	-91.06	22.3	900	11	12.5	4.8900E-04
65	69	E	H	-91.06	22.3	900	11	18.4	4.6682E-04
66	70	E	H	-90.31	32.6	960	10	18.2	1.6076E-03
67	71	E	H	-90.31	32.6	960	10	24.6	8.3808E-04
68	72	E	H	-90.31	32.6	900	11	12.5	5.1262E-04
69	73	E	H	-90.31	32.6	900	10	18.4	4.6619E-04
70	74	E	H	-89.77	37.1	960	11	18.2	1.6401E-03
71	75	E	H	-89.77	37.1	960	11	24.6	8.4923E-04
72	76	E	H	-89.77	37.1	900	11	12.5	5.4448E-04
73	77	E	H	-89.77	37.1	900	11	18.4	4.9257E-04
74	78	E	H	-89.22	43.2	960	11	18.2	3.3638E-03
75	79	E	H	-89.22	43.2	960	11	24.6	1.9109E-03
76	80	E	H	-89.22	43.2	900	11	12.5	7.0880E-04
77	81	E	H	-89.22	43.2	900	11	18.4	7.5736E-04
78	82	E	H	-91.07	-21.2	960	6	17.7	1.2757E-03
79	83	E	H	-91.07	-21.2	900	6	17.7	3.6272E-04
80	84	E	H	-90.34	-9.9	960	6	17.7	1.2678E-03
81	85	E	H	-90.34	-9.9	900	6	17.7	3.7574E-04
82	86	E	H	-89.83	0.0	960	6	17.7	1.3581E-03

83	87	E	H	-89.83	0.0	900	6	17.7	4.1773E-04
84	88	E	H	-89.29	0.0	960	6	17.7	4.4902E-03
85	89	E	H	-89.29	0.0	900	6	17.7	9.2707E-04
86	90	E	H	-88.53	4.9	960	6	17.7	1.0421E-03
87	91	E	H	-88.53	4.9	900	6	17.7	2.8083E-04
88	92	E	H	-91.11	-44.9	930	6	17.7	3.8353E-06
89	93	E	H	-90.37	-44.9	930	6	17.7	3.9032E-06
90	94	E	H	-89.84	-44.9	930	6	17.7	4.0917E-06
91	95	E	H	-89.29	-48.2	930	6	17.7	3.6919E-06
92	97	E	H	-91.06	21.2	930	6	17.7	3.8863E-04
93	98	E	H	-90.31	33.2	930	6	17.7	3.8857E-04
94	99	E	H	-89.77	37.3	930	6	17.7	4.0693E-04
95	100	E	H	-89.22	41.1	930	6	17.7	6.1607E-04
96	101	E	H	-91.07	-21.9	930	17	17.7	3.8783E-04
97	102	E	H	-90.34	-12.3	930	18	17.7	3.8939E-04
98	103	E	H	-89.83	-3.6	930	17	17.7	4.5068E-04
99	104	E	H	-89.29	1.7	930	16	17.7	1.2686E-03
100	105	E	H	-88.53	7.0	930	17	17.7	3.8622E-04
101	106	E	H	-91.11	-45.1	930	17	17.7	4.1328E-06
102	107	E	H	-90.37	-45.1	930	17	17.7	4.1671E-06
103	108	E	H	-89.84	-45.0	930	17	17.7	4.3778E-06
104	109	E	H	-89.29	-45.0	930	17	17.7	4.0343E-06
105	111	E	H	-91.06	21.9	930	17	17.7	4.1949E-04
106	112	E	H	-90.31	31.7	930	17	17.7	4.1620E-04
107	113	E	H	-89.77	37.1	930	17	17.7	4.4515E-04
108	114	E	H	-89.22	41.1	930	16	17.7	8.1526E-04
109	115	E	H	-90.68	-18.8	960	11	17.7	1.5171E-03
110	116	E	H	-90.68	-18.8	900	11	17.7	4.5101E-04

111	117	E	H	-90.08	-7.8	960	11	17.7	1.5742E-03
112	118	E	H	-90.08	-7.8	900	11	17.7	4.8441E-04
113	119	E	H	-89.6	0.0	960	11	17.7	3.0893E-03
114	120	E	H	-89.6	0.0	900	11	17.7	7.2898E-04
115	121	E	H	-88.87	5.5	960	11	17.7	1.3909E-03
116	122	E	H	-88.87	5.5	900	11	17.7	4.0212E-04
117	123	E	H	-91.11	-45.2	960	11	17.7	1.6096E-05
118	124	E	H	-91.11	-45.2	960	11	17.7	1.6096E-05
119	125	E	H	-91.11	-45.2	960	11	17.7	1.6096E-05
120	126	E	H	-91.11	-45.2	900	11	17.7	4.6144E-06
121	127	E	H	-91.11	-45.2	900	11	17.7	4.6144E-06
122	128	E	H	-91.11	-45.2	900	11	17.7	4.6144E-06
123	131	E	H	-90.69	24.8	960	11	17.7	1.6205E-03
124	132	E	H	-90.69	24.8	900	11	17.7	4.6757E-04
125	133	E	H	-90.04	34.9	960	11	17.7	1.6068E-03
126	134	E	H	-90.04	34.9	900	11	17.7	4.7786E-04
127	135	E	H	-89.5	39.0	960	11	17.7	2.5051E-03
128	136	E	H	-89.5	39.0	900	11	17.7	6.1924E-04
129	137	E	H	-90.68	-19.3	960	6	17.7	1.2589E-03
130	138	E	H	-90.68	-19.3	900	6	17.7	3.7426E-04
131	139	E	H	-90.08	-5.0	960	6	17.7	1.3138E-03
132	140	E	H	-90.08	-5.0	900	6	17.7	4.0430E-04
133	141	E	H	-89.6	0.0	960	6	17.7	2.5387E-03
134	142	E	H	-89.6	0.0	900	6	17.7	5.9774E-04
135	143	E	H	-88.87	4.9	960	6	17.7	1.0599E-03
136	144	E	H	-88.87	4.9	900	6	17.7	3.0647E-04
137	145	E	H	-90.74	-44.9	930	6	17.7	3.7902E-06
138	146	E	H	-90.1	-41.1	930	6	17.7	3.9996E-06

139	147	E	H	-89.57	-48.2	930	6	17.7	3.9504E-06
140	149	E	H	-90.69	25.8	930	6	17.7	3.8922E-04
141	150	E	H	-90.04	37.3	930	6	17.7	3.9820E-04
142	151	E	H	-89.5	41.1	930	6	17.7	5.0790E-04
143	152	E	H	-90.68	-17.9	930	17	17.7	3.9977E-04
144	153	E	H	-90.08	-6.9	930	17	17.7	4.3161E-04
145	154	E	H	-89.6	0.0	930	17	17.7	7.3250E-04
146	155	E	H	-88.87	5.3	930	17	17.7	4.1021E-04
147	156	E	H	-90.74	-45.1	930	17	17.7	4.0635E-06
148	157	E	H	-90.1	-45.1	930	17	17.7	4.2747E-06
149	158	E	H	-89.79	-43.7	930	17	17.7	4.5201E-06
150	160	E	H	-90.69	26.0	930	17	17.7	4.1860E-04
151	161	E	H	-90.04	34.3	930	17	17.7	4.2561E-04
152	162	E	H	-89.5	39.7	930	16	17.7	6.4857E-04
153	201	W	H	-94.3	-34.8	960	11	11	2.7709E-04
154	202	W	H	-94.3	-34.8	960	11	21	3.6052E-04
155	203	W	H	-94.3	-34.8	960	11	35.6	1.6974E-04
156	204	W	H	-94.3	-34.8	930	11	8	2.9623E-05
157	205	W	H	-94.3	-34.8	930	11	17.7	9.8730E-05
158	206	W	H	-94.3	-34.8	930	11	25.8	5.7484E-05
159	207	W	H	-94.3	-34.8	900	11	6	1.3299E-05
160	208	W	H	-94.3	-34.8	900	11	14.9	9.4629E-05
161	209	W	H	-94.3	-34.8	900	11	21.8	7.2270E-05
162	210	W	H	-93.77	-28.5	960	11	11	3.5226E-04
163	211	W	H	-93.77	-28.5	960	11	21	3.3197E-04
164	212	W	H	-93.77	-28.5	960	11	35.6	1.3407E-04
165	213	W	H	-93.77	-28.5	930	11	8	3.3017E-05
166	214	W	H	-93.77	-28.5	930	11	17.7	8.3841E-05

167	215	W	H	-93.77	-28.5	930	11	25.8	4.0801E-05
168	216	W	H	-93.77	-28.5	900	11	6	1.6274E-05
169	217	W	H	-93.77	-28.5	900	11	14.9	1.2308E-04
170	218	W	H	-93.77	-28.5	900	11	21.8	8.1373E-05
171	219	W	H	-93.16	-24.7	960	11	11	8.3059E-04
172	220	W	H	-93.16	-24.7	960	11	21	8.7151E-04
173	221	W	H	-93.16	-24.7	960	11	35.6	3.7571E-04
174	222	W	H	-93.16	-24.7	930	11	8	8.5780E-05
175	223	W	H	-93.16	-24.7	930	11	17.7	2.3962E-04
176	224	W	H	-93.16	-24.7	930	11	25.8	1.2551E-04
177	225	W	H	-93.16	-24.7	900	11	6	4.1347E-05
178	226	W	H	-93.16	-24.7	900	11	14.9	3.0577E-04
179	227	W	H	-93.16	-24.7	900	11	21.8	2.1151E-04
180	228	W	H	-92.34	-22.3	960	11	11	9.2549E-04
181	229	W	H	-92.34	-22.3	960	11	21	1.1391E-03
182	230	W	H	-92.34	-22.3	960	11	35.6	5.2694E-04
183	231	W	H	-92.34	-22.3	930	11	8	1.1344E-04
184	232	W	H	-92.34	-22.3	930	11	17.7	3.6344E-04
185	233	W	H	-92.34	-22.3	930	11	25.8	2.0651E-04
186	234	W	H	-92.34	-22.3	900	11	6	5.0012E-05
187	235	W	H	-92.34	-22.3	900	11	14.9	3.6278E-04
188	236	W	H	-92.34	-22.3	900	11	21.8	2.6943E-04
189	237	W	H	-91.63	-22.3	960	11	11	1.0159E-03
190	238	W	H	-91.63	-22.3	960	11	21	1.1967E-03
191	239	W	H	-91.63	-22.3	960	11	35.6	5.4634E-04
192	240	W	H	-91.63	-22.3	930	11	8	1.3189E-04
193	241	W	H	-91.63	-22.3	930	11	17.7	4.0842E-04
194	242	W	H	-91.63	-22.3	930	11	25.8	2.2757E-04



195	243	W	H	-91.63	-22.3	900	11	6	5.9094E-05
196	244	W	H	-91.63	-22.3	900	11	14.9	4.3167E-04
197	245	W	H	-91.63	-22.3	900	11	21.8	3.1374E-04
198	246	W	H	-94.35	-57.4	960	11	18.2	4.3165E-04
199	247	W	H	-94.35	-57.4	960	11	24.6	2.5150E-04
200	248	W	H	-94.35	-57.4	900	11	12.5	8.4936E-05
201	249	W	H	-94.35	-57.4	900	11	18.4	8.8905E-05
202	250	W	H	-93.66	-53.3	960	11	18.2	4.3401E-04
203	251	W	H	-93.66	-53.3	960	11	24.6	2.4261E-04
204	252	W	H	-93.66	-53.3	900	11	12.5	9.8665E-05
205	253	W	H	-93.66	-53.3	900	11	18.4	9.8340E-05
206	254	W	H	-92.53	-51.6	960	11	18.2	4.8231E-04
207	255	W	H	-92.53	-51.6	960	11	24.6	2.7292E-04
208	256	W	H	-92.53	-51.6	900	11	12.5	1.1286E-04
209	257	W	H	-92.53	-51.6	900	11	18.4	1.1432E-04
210	258	W	H	-91.58	-45.1	960	11	18.2	5.1715E-04
211	259	W	H	-91.58	-45.1	960	11	24.6	2.8880E-04
212	260	W	H	-91.58	-45.1	900	11	12.5	1.3702E-04
213	261	W	H	-91.58	-45.1	900	11	18.4	1.3644E-04
214	266	W	H	-94.22	10.9	960	11	18.2	1.3084E-03
215	267	W	H	-94.22	10.9	960	11	24.6	7.6282E-04
216	268	W	H	-94.22	10.9	900	11	12.5	2.5762E-04
217	269	W	H	-94.22	10.9	900	11	18.4	2.6985E-04
218	270	W	H	-93.2	13.6	960	11	18.2	1.4306E-03
219	271	W	H	-93.2	13.6	960	11	24.6	8.2347E-04
220	272	W	H	-93.2	13.6	900	11	12.5	2.9336E-04
221	273	W	H	-93.2	13.6	900	11	18.4	3.0250E-04
222	274	W	H	-92.27	18.7	960	11	18.2	1.4009E-03

223	275	W	H	-92.27	18.7	960	11	24.6	7.9151E-04
224	276	W	H	-92.27	18.7	900	11	12.5	3.3312E-04
225	277	W	H	-92.27	18.7	900	11	18.4	3.3647E-04
226	278	W	H	-91.43	19.7	960	11	18.2	1.4683E-03
227	279	W	H	-91.43	19.7	960	11	24.6	8.0597E-04
228	280	W	H	-91.43	19.7	900	11	12.5	4.2824E-04
229	281	W	H	-91.43	19.7	900	11	18.4	4.1765E-04
230	282	W	H	-94.3	-33.1	960	6	17.7	5.8675E-04
231	283	W	H	-94.3	-33.1	900	6	17.7	1.1803E-04
232	284	W	H	-93.77	-25.7	960	6	17.7	2.1674E-04
233	285	W	H	-93.77	-25.7	900	6	17.7	6.1202E-05
234	286	W	H	-93.16	-25.7	960	6	17.7	3.4166E-04
235	287	W	H	-93.16	-25.7	900	6	17.7	8.5633E-05
236	288	W	H	-92.34	-21.1	960	6	17.7	1.4026E-03
237	289	W	H	-92.34	-21.1	900	6	17.7	3.3176E-04
238	290	W	H	-91.63	-19.2	960	6	17.7	1.4879E-03
239	291	W	H	-91.63	-19.2	900	6	17.7	3.9017E-04
240	292	W	H	-94.35	-60.1	930	6	17.7	1.2295E-04
241	293	W	H	-93.66	-52.5	930	6	17.7	8.9011E-05
242	294	W	H	-92.53	-52.5	930	6	17.7	1.2398E-04
243	295	W	H	-91.58	-44.9	930	6	17.7	1.4322E-04
244	297	W	H	-94.22	14.6	930	6	17.7	3.5329E-04
245	298	W	H	-93.2	14.6	930	6	17.7	3.4693E-04
246	299	W	H	-92.27	19.2	930	6	17.7	3.5956E-04
247	300	W	H	-91.43	21.2	930	6	17.7	4.1765E-04
248	301	W	H	-94.3	-33.1	930	17	17.7	8.8310E-05
249	302	W	H	-93.77	-27.5	930	17	17.7	1.4737E-04
250	303	W	H	-93.16	-25.0	930	17	17.7	1.7085E-04

251	304	W	H	-92.34	-22.7	930	17	17.7	5.8675E-04
252	305	W	H	-91.63	-21.9	930	17	17.7	7.0217E-04
253	306	W	H	-94.35	-58.3	930	17	17.7	1.0071E-04
254	307	W	H	-93.66	-54.6	930	17	17.7	1.3180E-04
255	308	W	H	-92.53	-53.0	930	17	17.7	2.0890E-04
256	309	W	H	-91.58	-46.5	930	17	17.7	2.3797E-04
257	311	W	H	-94.22	12.3	930	17	17.7	2.8872E-04
258	312	W	H	-93.2	13.9	930	17	17.7	6.2607E-04
259	313	W	H	-92.27	17.8	930	17	17.7	5.8338E-04
260	314	W	H	-91.43	20.2	930	17	17.7	7.1034E-04
261	315	W	H	-94.05	-30.8	960	11	17.7	4.4378E-04
262	316	W	H	-94.05	-30.8	900	11	17.7	8.9387E-05
263	317	W	H	-93.4	-28.5	960	11	17.7	4.3520E-04
264	318	W	H	-93.4	-28.5	900	11	17.7	1.0039E-04
265	319	W	H	-92.72	-24.7	960	11	17.7	1.3745E-03
266	320	W	H	-92.72	-24.7	900	11	17.7	3.2990E-04
267	321	W	H	-92	-22.3	960	11	17.7	1.4578E-03
268	322	W	H	-92	-22.3	900	11	17.7	3.6512E-04
269	323	W	H	-94.05	-57.4	960	11	17.7	4.4378E-04
270	324	W	H	-93.23	-53.3	960	11	17.7	5.0210E-04
271	325	W	H	-91.99	-49.2	960	11	17.7	5.0594E-04
272	326	W	H	-94.05	-57.4	900	11	17.7	8.9387E-05
273	327	W	H	-93.23	-53.3	900	11	17.7	1.0946E-04
274	328	W	H	-91.99	-49.2	900	11	17.7	1.2664E-04
275	331	W	H	-93.66	10.9	960	11	17.7	1.1254E-03
276	332	W	H	-93.66	10.9	900	11	17.7	2.6358E-04
277	333	W	H	-92.7	16.1	960	11	17.7	1.3653E-03
278	334	W	H	-92.7	16.1	900	11	17.7	3.2950E-04

279	335	W	H	-91.92	19.7	960	11	17.7	1.4531E-03
280	336	W	H	-91.92	19.7	900	11	17.7	3.6607E-04
281	337	W	H	-94.05	-30.1	960	6	17.7	4.2430E-04
282	338	W	H	-94.05	-30.1	900	6	17.7	8.5420E-05
283	339	W	H	-93.4	-25.7	960	6	17.7	4.0303E-04
284	340	W	H	-93.4	-25.7	900	6	17.7	9.3872E-05
285	341	W	H	-92.72	-25.8	960	6	17.7	4.7645E-04
286	342	W	H	-92.72	-25.8	900	6	17.7	1.1442E-04
287	343	W	H	-92	-21.1	960	6	17.7	1.4578E-03
288	344	W	H	-92	-21.1	900	6	17.7	3.6512E-04
289	345	W	H	-94.05	-60.1	930	6	17.7	8.3551E-05
290	346	W	H	-93.23	-52.5	930	6	17.7	1.1477E-04
291	347	W	H	-91.99	-48.2	930	6	17.7	1.3690E-04
292	349	W	H	-93.66	9.8	930	6	17.7	1.7173E-04
293	350	W	H	-92.7	14.6	930	6	17.7	3.7408E-04
294	351	W	H	-91.92	21.2	930	6	17.7	3.9504E-04
295	352	W	H	-94.05	-31.6	930	17	17.7	9.7459E-05
296	353	W	H	-93.4	-27.5	930	17	17.7	1.4724E-04
297	354	W	H	-92.72	-23.5	930	17	17.7	6.5745E-04
298	355	W	H	-92	-21.9	930	17	17.7	6.2398E-04
299	356	W	H	-94.05	-56.6	930	17	17.7	9.7459E-05
300	357	W	H	-93.23	-53.0	930	17	17.7	2.0310E-04
301	358	W	H	-91.99	-50.4	930	17	17.7	2.2871E-04
302	360	W	H	-93.66	12.2	930	17	17.7	3.6334E-04
303	361	W	H	-92.7	16.1	930	17	17.7	7.0210E-04
304	362	W	H	-91.92	19.5	930	17	17.7	6.5995E-04
305	401	W	L	-94.3	-34.8	975	11	11	3.4210E-04
306	402	W	L	-94.3	-34.8	975	11	21	5.4236E-04

307	403	W	L	-94.3	-34.8	975	11	35.6	4.6820E-04
308	404	W	L	-93.77	-28.5	975	11	11	4.1342E-04
309	405	W	L	-93.77	-28.5	975	11	21	6.4120E-04
310	406	W	L	-93.77	-28.5	975	11	35.6	5.2299E-04
311	407	W	L	-93.16	-24.7	975	11	11	1.4280E-03
312	408	W	L	-93.16	-24.7	975	11	21	2.2386E-03
313	409	W	L	-93.16	-24.7	975	11	35.6	1.8782E-03
314	410	W	L	-92.34	-22.3	975	11	11	1.0538E-03
315	411	W	L	-92.34	-22.3	975	11	21	1.6701E-03
316	412	W	L	-92.34	-22.3	975	11	35.6	1.4422E-03
317	413	W	L	-91.63	-22.3	975	11	11	1.1668E-03
318	414	W	L	-91.63	-22.3	975	11	21	1.8508E-03
319	415	W	L	-91.63	-22.3	975	11	35.6	1.6073E-03
320	416	W	L	-94.35	-57.4	975	11	18.2	4.8230E-04
321	417	W	L	-94.35	-57.4	975	11	24.6	4.9751E-04
322	418	W	L	-93.66	-53.3	975	11	18.2	5.5264E-04
323	419	W	L	-93.66	-53.3	975	11	24.6	5.6661E-04
324	420	W	L	-92.53	-51.6	975	11	18.2	4.3977E-04
325	421	W	L	-92.53	-51.6	975	11	24.6	4.5362E-04
326	422	W	L	-91.58	-45.1	975	11	18.2	4.8181E-04
327	423	W	L	-91.58	-45.1	975	11	24.6	4.9798E-04
328	424	W	L	-94.22	10.9	975	11	18.2	2.0860E-03
329	425	W	L	-94.22	10.9	975	11	24.6	2.1526E-03
330	426	W	L	-93.2	13.6	975	11	18.2	1.8155E-03
331	427	W	L	-93.2	13.6	975	11	24.6	1.8719E-03
332	428	W	L	-92.27	18.7	975	11	18.2	1.7769E-03
333	429	W	L	-92.27	18.7	975	11	24.6	1.8325E-03
334	430	W	L	-91.43	19.7	975	11	18.2	1.7128E-03

335	431	W	L	-91.43	19.7	975	11	24.6	1.7739E-03
336	432	W	L	-94.3	-33.1	975	6	17.7	9.5553E-04
337	433	W	L	-93.77	-25.7	975	6	17.7	2.2510E-04
338	434	W	L	-93.16	-25.7	975	6	17.7	5.4566E-04
339	435	W	L	-92.34	-21.1	975	6	17.7	2.7316E-03
340	436	W	L	-91.63	-19.2	975	6	17.7	2.3039E-03
341	437	W	L	-94.35	-60.1	975	6	17.7	9.5651E-04
342	438	W	L	-93.66	-52.5	975	6	17.7	8.1810E-04
343	439	W	L	-92.53	-52.5	975	6	17.7	7.7844E-04
344	440	W	L	-91.58	-44.9	975	6	17.7	6.0637E-04
345	441	W	L	-94.22	14.6	975	6	17.7	3.6792E-03
346	442	W	L	-93.2	14.6	975	6	17.7	2.7409E-03
347	443	W	L	-92.27	19.2	975	6	17.7	2.4675E-03
348	444	W	L	-91.43	21.2	975	6	17.7	2.3377E-03
349	445	W	L	-94.3	-33.1	975	17	17.7	5.4149E-04
350	446	W	L	-93.77	-27.5	975	17	17.7	6.4936E-04
351	447	W	L	-93.16	-25.0	975	17	17.7	5.7448E-04
352	448	W	L	-92.34	-22.7	975	17	17.7	1.3257E-03
353	449	W	L	-91.63	-21.9	975	17	17.7	1.0581E-03
354	450	W	L	-94.35	-58.3	975	17	17.7	4.8230E-04
355	451	W	L	-93.66	-54.6	975	17	17.7	5.5505E-04
356	452	W	L	-92.53	-53.0	975	17	17.7	3.9959E-04
357	453	W	L	-91.58	-46.5	975	17	17.7	3.1658E-04
358	454	W	L	-94.22	12.3	975	17	17.7	2.0860E-03
359	455	W	L	-93.2	13.9	975	17	17.7	1.8273E-03
360	456	W	L	-92.27	17.8	975	17	17.7	1.3554E-03
361	457	W	L	-91.43	20.2	975	17	17.7	1.2168E-03
362	458	W	L	-94.05	-30.8	975	11	17.7	5.3835E-04

363	459	W	L	-93.4	-28.5	975	11	17.7	5.5071E-04
364	460	W	L	-92.72	-24.7	975	11	17.7	1.7436E-03
365	461	W	L	-92	-22.3	975	11	17.7	1.7918E-03
366	462	W	L	-94.05	-30.1	975	6	17.7	9.4390E-04
367	463	W	L	-93.4	-25.7	975	6	17.7	7.8251E-04
368	464	W	L	-92.72	-25.8	975	6	17.7	7.6149E-04
369	465	W	L	-92	-21.1	975	6	17.7	2.3574E-03
370	466	W	L	-94.05	-60.1	975	6	17.7	9.4428E-04
371	467	W	L	-93.23	-52.5	975	6	17.7	7.2404E-04
372	468	W	L	-91.99	-48.2	975	6	17.7	7.0988E-04
373	469	W	L	-93.66	9.8	975	6	17.7	2.4221E-03
374	470	W	L	-92.7	14.6	975	6	17.7	3.0372E-03
375	471	W	L	-91.92	21.2	975	6	17.7	2.6460E-03
376	501	E	L	-91.07	-22.3	975	11	11	1.8509E-03
377	502	E	L	-91.07	-22.3	975	11	21	2.9372E-03
378	503	E	L	-91.07	-22.3	975	11	35.6	2.5508E-03
379	504	E	L	-90.34	-11.0	975	11	11	2.0842E-03
380	505	E	L	-90.34	-11.0	975	11	21	3.3034E-03
381	506	E	L	-90.34	-11.0	975	11	35.6	2.8522E-03
382	507	E	L	-89.83	-2.8	975	11	11	1.9678E-03
383	508	E	L	-89.83	-2.8	975	11	21	3.1170E-03
384	509	E	L	-89.83	-2.8	975	11	35.6	2.6912E-03
385	510	E	L	-89.29	2.6	975	11	11	2.4944E-03
386	511	E	L	-89.29	2.6	975	11	21	3.9266E-03
387	512	E	L	-89.29	2.6	975	11	35.6	3.3084E-03
388	513	E	L	-88.53	5.5	975	11	11	1.9371E-03
389	514	E	L	-88.53	5.5	975	11	21	3.0626E-03
390	515	E	L	-88.53	5.5	975	11	35.6	2.6295E-03

391	516	E	L	-91.11	-45.2	975	11	18.2	2.8047E-05
392	517	E	L	-91.11	-45.2	975	11	24.6	2.9039E-05
393	518	E	L	-90.37	-45.2	975	11	18.2	3.1864E-05
394	519	E	L	-90.37	-45.2	975	11	24.6	3.2903E-05
395	520	E	L	-89.84	-45.1	975	11	18.2	3.1690E-05
396	521	E	L	-89.84	-45.1	975	11	24.6	3.2661E-05
397	522	E	L	-89.29	-45.1	975	11	18.2	3.1997E-05
398	523	E	L	-89.29	-45.1	975	11	24.6	3.2967E-05
399	524	E	L	-91.06	22.3	975	11	18.2	2.7050E-03
400	525	E	L	-91.06	22.3	975	11	24.6	2.7995E-03
401	526	E	L	-90.31	32.6	975	11	18.2	3.0687E-03
402	527	E	L	-90.31	32.6	975	11	24.6	3.1686E-03
403	528	E	L	-89.77	37.1	975	11	18.2	3.1263E-03
404	529	E	L	-89.77	37.1	975	11	24.6	3.2271E-03
405	530	E	L	-89.22	43.2	975	11	18.2	9.2794E-05
406	531	E	L	-89.22	43.2	975	11	24.6	4.8869E-05
407	532	E	L	-91.07	-21.2	975	6	17.7	3.0626E-03
408	533	E	L	-90.34	-9.9	975	6	17.7	2.4819E-03
409	534	E	L	-89.83	0.0	975	6	17.7	1.5247E-03
410	535	E	L	-89.29	0.0	975	6	17.7	4.8818E-03
411	536	E	L	-88.53	4.9	975	6	17.7	2.9447E-03
412	537	E	L	-91.11	-44.9	975	6	17.7	3.1140E-05
413	538	E	L	-90.37	-44.9	975	6	17.7	2.5662E-05
414	539	E	L	-89.84	-44.9	975	6	17.7	1.6909E-05
415	540	E	L	-89.29	-48.2	975	6	17.7	2.0075E-05
416	541	E	L	-91.06	21.2	975	6	17.7	2.9875E-03
417	542	E	L	-90.31	33.2	975	6	17.7	2.1953E-03
418	543	E	L	-89.77	37.3	975	6	17.7	1.5173E-03



419	544	E	L	-89.22	41.1	975	6	17.7	3.5157E-03
420	545	E	L	-91.07	-21.9	975	17	17.7	1.7233E-03
421	546	E	L	-90.34	-12.3	975	17	17.7	1.8862E-03
422	547	E	L	-89.83	-3.6	975	17	17.7	1.3751E-03
423	548	E	L	-89.29	1.7	975	17	17.7	2.2834E-03
424	549	E	L	-88.53	7.0	975	17	17.7	2.9839E-03
425	550	E	L	-91.11	-45.1	975	17	17.7	1.7055E-05
426	551	E	L	-90.37	-45.1	975	17	17.7	1.6299E-05
427	552	E	L	-89.84	-45.0	975	17	17.7	1.1937E-05
428	553	E	L	-89.29	-45.0	975	17	17.7	1.6749E-05
429	554	E	L	-91.06	21.9	975	17	17.7	1.6331E-03
430	555	E	L	-90.31	31.7	975	17	17.7	1.3732E-03
431	556	E	L	-89.77	37.1	975	17	17.7	1.5441E-03
432	557	E	L	-89.22	41.1	975	17	17.7	2.2635E-03
433	558	E	L	-90.68	-18.8	975	11	17.7	3.1184E-03
434	559	E	L	-90.08	-7.8	975	11	17.7	3.1941E-03
435	560	E	L	-89.6	0.0	975	11	17.7	4.2348E-04
436	561	E	L	-88.87	5.5	975	11	17.7	3.0724E-03
437	562	E	L	-90.68	-19.3	975	6	17.7	2.8774E-03
438	563	E	L	-90.08	-5.0	975	6	17.7	1.9108E-03
439	564	E	L	-89.6	0.0	975	6	17.7	2.8231E-03
440	565	E	L	-88.87	4.9	975	6	17.7	2.7365E-03
441	566	E	L	-90.74	-44.9	975	6	17.7	2.7406E-05
442	567	E	L	-90.1	-41.1	975	6	17.7	2.1258E-05
443	568	E	L	-89.57	-48.2	975	6	17.7	1.7190E-05
444	569	E	L	-90.69	25.8	975	6	17.7	2.5937E-03
445	570	E	L	-90.04	37.3	975	6	17.7	2.0237E-03
446	571	E	L	-89.5	41.1	975	6	17.7	2.5511E-03