

Appendix D

Blackbody Viewfactors for COBRA-SFS Model of TN-68 Cask

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Blackbody Viewfactors for COBRA-SFS Model of TN-68 Cask

C TUNNEL.1=TOP TUNNEL.2=SIDE TUNNEL.3=BOTTOM				CASK.603, TUNNEL.2, 91.088 \$ 0.52597,0.00027087			
Cnode_1	node_2	Area*e*Bij	\$ Bij Bji	CASK.603,	TUNNEL.3,	65.088	\$ 0.37584,0.00022321
CASK.101,	TUNNEL.1,	137.54	\$ 0.79418,0.00045040	CASK.604,	TUNNEL.1,	5.9256	\$ 0.034216,1.9405e-005
CASK.101,	TUNNEL.2,	25.477	\$ 0.14711,7.5761e-005	CASK.604,	TUNNEL.2,	31.061	\$ 0.17936,9.2367e-005
CASK.101,	TUNNEL.3,	6.3683	\$ 0.036772,2.1839e-005	CASK.604,	TUNNEL.3,	132.28	\$ 0.76385,0.00045365
CASK.102,	TUNNEL.1,	67.819	\$ 0.39161,0.00022209	CASK.701,	TUNNEL.1,	138.29	\$ 0.79854,0.00045288
CASK.102,	TUNNEL.2,	87.635	\$ 0.50603,0.00026060	CASK.701,	TUNNEL.2,	24.847	\$ 0.14347,7.3886e-005
CASK.102,	TUNNEL.3,	13.723	\$ 0.079241,4.7061e-005	CASK.701,	TUNNEL.3,	6.2483	\$ 0.036080,2.1428e-005
CASK.103,	TUNNEL.1,	12.951	\$ 0.074781,4.2410e-005	CASK.702,	TUNNEL.1,	68.225	\$ 0.39395,0.00022342
CASK.103,	TUNNEL.2,	90.996	\$ 0.52544,0.00027059	CASK.702,	TUNNEL.2,	87.042	\$ 0.50261,0.00025884
CASK.103,	TUNNEL.3,	65.443	\$ 0.37789,0.00022443	CASK.702,	TUNNEL.3,	13.824	\$ 0.079826,4.7408e-005
CASK.104,	TUNNEL.1,	6.2714	\$ 0.036213,2.0538e-005	CASK.703,	TUNNEL.1,	13.006	\$ 0.075103,4.2593e-005
CASK.104,	TUNNEL.2,	31.022	\$ 0.17913,9.2251e-005	CASK.703,	TUNNEL.2,	90.921	\$ 0.52501,0.00027037
CASK.104,	TUNNEL.3,	132.32	\$ 0.76404,0.00045376	CASK.703,	TUNNEL.3,	65.304	\$ 0.37709,1.00022395
CASK.201,	TUNNEL.1,	138.22	\$ 0.79812,0.00045264	CASK.704,	TUNNEL.1,	5.8582	\$ 0.033827,1.9184e-005
CASK.201,	TUNNEL.2,	24.978	\$ 0.14423,7.4277e-005	CASK.704,	TUNNEL.2,	31.026	\$ 0.17916,9.2263e-005
CASK.201,	TUNNEL.3,	6.3135	\$ 0.036456,2.1651e-005	CASK.704,	TUNNEL.3,	132.40	\$ 0.76454,0.00045406
CASK.202,	TUNNEL.1,	68.135	\$ 0.39343,0.00022313	CASK.801,	TUNNEL.1,	138.10	\$ 0.79744,0.00045225
CASK.202,	TUNNEL.2,	87.392	\$ 0.50463,0.00025988	CASK.801,	TUNNEL.2,	25.102	\$ 0.14495,7.4647e-005
CASK.202,	TUNNEL.3,	13.599	\$ 0.078527,4.6637e-005	CASK.801,	TUNNEL.3,	6.2315	\$ 0.035983,2.1370e-005
CASK.203,	TUNNEL.1,	12.937	\$ 0.074702,4.2365e-005	CASK.802,	TUNNEL.1,	67.889	\$ 0.39201,0.00022232
CASK.203,	TUNNEL.2,	90.689	\$ 0.52367,0.00026968	CASK.802,	TUNNEL.2,	87.307	\$ 0.50414,0.00025963
CASK.203,	TUNNEL.3,	65.701	\$ 0.37938,0.00022531	CASK.802,	TUNNEL.3,	13.869	\$ 0.080083,4.7561e-005
CASK.204,	TUNNEL.1,	6.1691	\$ 0.035622,2.0203e-005	CASK.803,	TUNNEL.1,	12.847	\$ 0.074182,4.2007e-005
CASK.204,	TUNNEL.2,	31.104	\$ 0.17961,9.2494e-005	CASK.803,	TUNNEL.2,	90.805	\$ 0.52434,0.00027003
CASK.204,	TUNNEL.3,	132.31	\$ 0.76399,0.00045373	CASK.803,	TUNNEL.3,	65.535	\$ 0.37842,0.00022474
CASK.301,	TUNNEL.1,	137.98	\$ 0.79676,0.00045187	CASK.804,	TUNNEL.1,	5.7617	\$ 0.033270,1.8868e-005
CASK.301,	TUNNEL.2,	25.169	\$ 0.14533,7.4844e-005	CASK.804,	TUNNEL.2,	31.064	\$ 0.17937,9.2374e-005
CASK.301,	TUNNEL.3,	6.3354	\$ 0.036583,2.1726e-005	CASK.804,	TUNNEL.3,	132.36	\$ 0.76430,0.00045391
CASK.302,	TUNNEL.1,	68.192	\$ 0.39376,0.00022331	CASK.901,	TUNNEL.1,	138.13	\$ 0.79764,0.00045236
CASK.302,	TUNNEL.2,	87.312	\$ 0.50417,0.00025964	CASK.901,	TUNNEL.2,	25.128	\$ 0.14510,7.4724e-005
CASK.302,	TUNNEL.3,	13.687	\$ 0.079031,4.6936e-005	CASK.901,	TUNNEL.3,	6.2207	\$ 0.035921,2.1333e-005
CASK.303,	TUNNEL.1,	12.880	\$ 0.074375,4.2180e-005	CASK.902,	TUNNEL.1,	68.091	\$ 0.39318,0.00022298
CASK.303,	TUNNEL.2,	91.267	\$ 0.52700,0.00027140	CASK.902,	TUNNEL.2,	87.277	\$ 0.50396,0.00025953
CASK.303,	TUNNEL.3,	65.225	\$ 0.37663,0.00022368	CASK.902,	TUNNEL.3,	13.700	\$ 0.079107,4.6981e-005
CASK.304,	TUNNEL.1,	6.1435	\$ 0.035475,2.0119e-005	CASK.903,	TUNNEL.1,	12.952	\$ 0.074789,4.2415e-005
CASK.304,	TUNNEL.2,	31.213	\$ 0.18024,9.2819e-005	CASK.903,	TUNNEL.2,	90.982	\$ 0.52536,0.00027055
CASK.304,	TUNNEL.3,	132.07	\$ 0.76261,0.00045291	CASK.903,	TUNNEL.3,	65.132	\$ 0.37609,0.00022336
CASK.401,	TUNNEL.1,	138.03	\$ 0.79704,0.00045202	CASK.904,	TUNNEL.1,	5.7522	\$ 0.033215,1.8837e-005
CASK.401,	TUNNEL.2,	25.096	\$ 0.14491,7.4627e-005	CASK.904,	TUNNEL.2,	31.124	\$ 0.17972,9.2553e-005
CASK.401,	TUNNEL.3,	6.3204	\$ 0.036496,2.1675e-005	CASK.904,	TUNNEL.3,	132.31	\$ 0.76400,0.00045374
CASK.402,	TUNNEL.1,	68.295	\$ 0.39436,0.00022365	CASK.1001,	TUNNEL.1,	137.84	\$ 0.79593,0.00045139
CASK.402,	TUNNEL.2,	87.210	\$ 0.50358,0.00025934	CASK.1001,	TUNNEL.2,	25.412	\$ 0.14674,7.5569e-005
CASK.402,	TUNNEL.3,	13.632	\$ 0.078717,4.6750e-005	CASK.1001,	TUNNEL.3,	6.2311	\$ 0.035981,2.1369e-005
CASK.403,	TUNNEL.1,	13.054	\$ 0.075376,4.2748e-005	CASK.1002,	TUNNEL.1,	68.564	\$ 0.39591,0.00022453
CASK.403,	TUNNEL.2,	90.720	\$ 0.52385,0.00026977	CASK.1002,	TUNNEL.2,	86.856	\$ 0.50153,0.00025828
CASK.403,	TUNNEL.3,	65.460	\$ 0.37799,0.00022448	CASK.1002,	TUNNEL.3,	13.655	\$ 0.078849,4.6828e-005
CASK.404,	TUNNEL.1,	6.0468	\$ 0.034916,1.9802e-005	CASK.1003,	TUNNEL.1,	12.716	\$ 0.073426,4.1642e-005
CASK.404,	TUNNEL.2,	30.945	\$ 0.17868,9.2020e-005	CASK.1003,	TUNNEL.2,	90.924	\$ 0.52502,0.00027038
CASK.404,	TUNNEL.3,	132.46	\$ 0.76484,0.00045424	CASK.1003,	TUNNEL.3,	65.500	\$ 0.37822,0.00022462
CASK.501,	TUNNEL.1,	138.12	\$ 0.79752,0.00045230	CASK.1004,	TUNNEL.1,	5.6573	\$ 0.032667,1.8526e-005
CASK.501,	TUNNEL.2,	25.031	\$ 0.14454,7.4434e-005	CASK.1004,	TUNNEL.2,	31.197	\$ 0.18014,9.2770e-005
CASK.501,	TUNNEL.3,	6.3279	\$ 0.036539,2.1701e-005	CASK.1004,	TUNNEL.3,	132.27	\$ 0.76378,0.00045361
CASK.502,	TUNNEL.1,	68.608	\$ 0.39616,0.00022468	CASK.1101,	TUNNEL.1,	138.17	\$ 0.79782,0.00045247
CASK.502,	TUNNEL.2,	86.890	\$ 0.50173,0.00025838	CASK.1101,	TUNNEL.2,	25.006	\$ 0.14440,7.4362e-005
CASK.502,	TUNNEL.3,	13.693	\$ 0.079069,4.6959e-005	CASK.1101,	TUNNEL.3,	6.1872	\$ 0.035727,2.1218e-005
CASK.503,	TUNNEL.1,	12.946	\$ 0.074757,4.2397e-005	CASK.1102,	TUNNEL.1,	68.446	\$ 0.39523,0.00022415
CASK.503,	TUNNEL.2,	91.115	\$ 0.52613,0.00027095	CASK.1102,	TUNNEL.2,	87.049	\$ 0.50265,0.00025886
CASK.503,	TUNNEL.3,	65.179	\$ 0.37636,0.00022352	CASK.1102,	TUNNEL.3,	13.505	\$ 0.077980,4.6312e-005
CASK.504,	TUNNEL.1,	5.9701	\$ 0.034474,1.9551e-005	CASK.1103,	TUNNEL.1,	12.985	\$ 0.074982,4.2524e-005
CASK.504,	TUNNEL.2,	30.931	\$ 0.17860,9.1979e-005	CASK.1103,	TUNNEL.2,	91.145	\$ 0.52630,0.00027104
CASK.504,	TUNNEL.3,	132.45	\$ 0.76480,0.00045422	CASK.1103,	TUNNEL.3,	65.061	\$ 0.37568,0.00022312
CASK.601,	TUNNEL.1,	138.18	\$ 0.79788,0.00045250	CASK.1104,	TUNNEL.1,	5.6898	\$ 0.032855,1.8633e-005
CASK.601,	TUNNEL.2,	24.944	\$ 0.14403,7.4176e-005	CASK.1104,	TUNNEL.2,	30.943	\$ 0.17868,9.2016e-005
CASK.601,	TUNNEL.3,	6.2188	\$ 0.035909,2.1326e-005	CASK.1104,	TUNNEL.3,	132.40	\$ 0.76453,0.00045405
CASK.602,	TUNNEL.1,	68.688	\$ 0.39663,0.00022494	CASK.1201,	TUNNEL.1,	137.88	\$ 0.79616,0.00045153
CASK.602,	TUNNEL.2,	86.987	\$ 0.50229,0.00025867	CASK.1201,	TUNNEL.2,	25.412	\$ 0.14674,7.5567e-005
CASK.602,	TUNNEL.3,	13.491	\$ 0.077899,4.6264e-005	CASK.1201,	TUNNEL.3,	6.1750	\$ 0.035657,2.1176e-005
CASK.603,	TUNNEL.1,	13.037	\$ 0.075278,4.2692e-005	CASK.1202,	TUNNEL.1,	67.908	\$ 0.39212,0.00022238

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CASK.1202,	TUNNEL.2,	87.439	\$	0.50490,0.00026002	CASK.1901,	TUNNEL.1,	138.28	\$	0.79848,0.00045284
CASK.1202,	TUNNEL.3,	13.717	\$	0.079208,4.7041e-005	CASK.1901,	TUNNEL.2,	24.841	\$	0.14344,7.3870e-005
CASK.1203,	TUNNEL.1,	12.998	\$	0.075055,4.2566e-005	CASK.1901,	TUNNEL.3,	6.1732	\$	0.035646,2.1170e-005
CASK.1203,	TUNNEL.2,	90.706	\$	0.52377,0.00026973	CASK.1902,	TUNNEL.1,	68.778	\$	0.39714,0.00022523
CASK.1203,	TUNNEL.3,	65.409	\$	0.37769,0.00022431	CASK.1902,	TUNNEL.2,	86.557	\$	0.49981,0.00025739
CASK.1204,	TUNNEL.1,	5.5919	\$	0.032289,1.8312e-005	CASK.1902,	TUNNEL.3,	13.637	\$	0.078746,4.6767e-005
CASK.1204,	TUNNEL.2,	31.129	\$	0.17975,9.2567e-005	CASK.1903,	TUNNEL.1,	12.841	\$	0.074146,4.2051e-005
CASK.1204,	TUNNEL.3,	132.27	\$	0.76380,0.00045362	CASK.1903,	TUNNEL.2,	91.151	\$	0.52633,0.00027105
CASK.1301,	TUNNEL.1,	138.25	\$	0.79830,0.00045274	CASK.1903,	TUNNEL.3,	65.209	\$	0.37654,0.00022362
CASK.1301,	TUNNEL.2,	24.993	\$	0.14432,7.4320e-005	CASK.1904,	TUNNEL.1,	5.6276	\$	0.032496,1.8429e-005
CASK.1301,	TUNNEL.3,	6.1782	\$	0.035675,2.1187e-005	CASK.1904,	TUNNEL.2,	30.798	\$	0.17784,9.1584e-005
CASK.1302,	TUNNEL.1,	68.155	\$	0.39355,0.00022319	CASK.1904,	TUNNEL.3,	132.57	\$	0.76549,0.00045462
CASK.1302,	TUNNEL.2,	87.155	\$	0.50326,0.00025917	CASK.2001,	TUNNEL.1,	138.26	\$	0.79837,0.00045278
CASK.1302,	TUNNEL.3,	13.671	\$	0.078943,4.6884e-005	CASK.2001,	TUNNEL.2,	24.969	\$	0.14418,7.4252e-005
CASK.1303,	TUNNEL.1,	12.737	\$	0.073546,4.1710e-005	CASK.2001,	TUNNEL.3,	6.1633	\$	0.035589,2.1136e-005
CASK.1303,	TUNNEL.2,	91.130	\$	0.52622,0.00027099	CASK.2002,	TUNNEL.1,	67.893	\$	0.39204,0.00022234
CASK.1303,	TUNNEL.3,	65.245	\$	0.37674,0.00022375	CASK.2002,	TUNNEL.2,	87.430	\$	0.50485,0.00025999
CASK.1304,	TUNNEL.1,	5.6600	\$	0.032683,1.8535e-005	CASK.2002,	TUNNEL.3,	13.778	\$	0.079561,4.7251e-005
CASK.1304,	TUNNEL.2,	31.047	\$	0.17928,9.2325e-005	CASK.2003,	TUNNEL.1,	12.702	\$	0.073347,4.1597e-005
CASK.1304,	TUNNEL.3,	132.30	\$	0.76396,0.00045372	CASK.2003,	TUNNEL.2,	90.326	\$	0.52157,0.00026860
CASK.1401,	TUNNEL.1,	138.04	\$	0.79707,0.00045204	CASK.2003,	TUNNEL.3,	66.063	\$	0.38147,0.00022655
CASK.1401,	TUNNEL.2,	25.121	\$	0.14506,7.4703e-005	CASK.2004,	TUNNEL.1,	5.6088	\$	0.032387,1.8368e-005
CASK.1401,	TUNNEL.3,	6.2019	\$	0.035812,2.1269e-005	CASK.2004,	TUNNEL.2,	30.836	\$	0.17806,9.1696e-005
CASK.1402,	TUNNEL.1,	68.195	\$	0.39378,0.00022332	CASK.2004,	TUNNEL.3,	132.54	\$	0.76530,0.00045451
CASK.1402,	TUNNEL.2,	87.073	\$	0.50279,0.00025893	CASK.2101,	TUNNEL.1,	137.99	\$	0.79682,0.00045190
CASK.1402,	TUNNEL.3,	13.807	\$	0.079729,4.7351e-005	CASK.2101,	TUNNEL.2,	25.223	\$	0.14564,7.5005e-005
CASK.1403,	TUNNEL.1,	12.669	\$	0.073153,4.1487e-005	CASK.2101,	TUNNEL.3,	6.2208	\$	0.035921,2.1333e-005
CASK.1403,	TUNNEL.2,	91.365	\$	0.52757,0.00027169	CASK.2102,	TUNNEL.1,	68.122	\$	0.39336,0.00022308
CASK.1403,	TUNNEL.3,	65.069	\$	0.37573,0.00022314	CASK.2102,	TUNNEL.2,	87.248	\$	0.50380,0.00025945
CASK.1404,	TUNNEL.1,	5.5888	\$	0.032272,1.8302e-005	CASK.2102,	TUNNEL.3,	13.695	\$	0.079082,4.6967e-005
CASK.1404,	TUNNEL.2,	31.163	\$	0.17994,9.2668e-005	CASK.2103,	TUNNEL.1,	12.623	\$	0.072889,4.1338e-005
CASK.1404,	TUNNEL.3,	132.22	\$	0.76345,0.00045341	CASK.2103,	TUNNEL.2,	91.084	\$	0.52595,0.00027086
CASK.1501,	TUNNEL.1,	138.17	\$	0.79785,0.00045249	CASK.2103,	TUNNEL.3,	65.444	\$	0.37790,0.00022443
CASK.1501,	TUNNEL.2,	25.075	\$	0.14479,7.4565e-005	CASK.2104,	TUNNEL.1,	5.6251	\$	0.032481,1.8421e-005
CASK.1501,	TUNNEL.3,	6.1911	\$	0.035749,2.1231e-005	CASK.2104,	TUNNEL.2,	30.935	\$	0.17863,9.1992e-005
CASK.1502,	TUNNEL.1,	68.139	\$	0.39346,0.00022314	CASK.2104,	TUNNEL.3,	132.48	\$	0.76497,0.00045431
CASK.1502,	TUNNEL.2,	87.197	\$	0.50350,0.00025930	CASK.2201,	TUNNEL.1,	138.00	\$	0.79686,0.00045192
CASK.1502,	TUNNEL.3,	13.646	\$	0.078797,4.6798e-005	CASK.2201,	TUNNEL.2,	25.240	\$	0.14575,7.5057e-005
CASK.1503,	TUNNEL.1,	12.784	\$	0.073818,4.1864e-005	CASK.2201,	TUNNEL.3,	6.1738	\$	0.035650,2.1172e-005
CASK.1503,	TUNNEL.2,	91.009	\$	0.52552,0.00027063	CASK.2202,	TUNNEL.1,	68.741	\$	0.39693,0.00022511
CASK.1503,	TUNNEL.3,	65.230	\$	0.37666,0.00022370	CASK.2202,	TUNNEL.2,	86.917	\$	0.50189,0.00025847
CASK.1504,	TUNNEL.1,	5.6144	\$	0.032419,1.8386e-005	CASK.2202,	TUNNEL.3,	13.480	\$	0.077838,4.6228e-005
CASK.1504,	TUNNEL.2,	31.011	\$	0.17907,9.2217e-005	CASK.2203,	TUNNEL.1,	12.900	\$	0.074490,4.2246e-005
CASK.1504,	TUNNEL.3,	132.37	\$	0.76434,0.00045394	CASK.2203,	TUNNEL.2,	91.269	\$	0.52702,0.00027141
CASK.1601,	TUNNEL.1,	138.38	\$	0.79906,0.00045317	CASK.2203,	TUNNEL.3,	64.953	\$	0.37506,0.00022275
CASK.1601,	TUNNEL.2,	24.861	\$	0.14355,7.3928e-005	CASK.2204,	TUNNEL.1,	5.6790	\$	0.032793,1.8598e-005
CASK.1601,	TUNNEL.3,	6.1468	\$	0.035493,2.1079e-005	CASK.2204,	TUNNEL.2,	30.883	\$	0.17833,9.1837e-005
CASK.1602,	TUNNEL.1,	68.267	\$	0.39420,0.00022356	CASK.2204,	TUNNEL.3,	132.53	\$	0.76527,0.00045449
CASK.1602,	TUNNEL.2,	87.153	\$	0.50325,0.00025917	CASK.2301,	TUNNEL.1,	137.99	\$	0.79683,0.00045190
CASK.1602,	TUNNEL.3,	13.587	\$	0.078457,4.6595e-005	CASK.2301,	TUNNEL.2,	25.190	\$	0.14546,7.4909e-005
CASK.1603,	TUNNEL.1,	12.646	\$	0.073025,4.1414e-005	CASK.2301,	TUNNEL.3,	6.2267	\$	0.035955,2.1354e-005
CASK.1603,	TUNNEL.2,	90.521	\$	0.52270,0.00026918	CASK.2302,	TUNNEL.1,	68.414	\$	0.39504,0.00022404
CASK.1603,	TUNNEL.3,	65.886	\$	0.38045,0.00022595	CASK.2302,	TUNNEL.2,	86.942	\$	0.50203,0.00025854
CASK.1604,	TUNNEL.1,	5.5843	\$	0.032245,1.8287e-005	CASK.2302,	TUNNEL.3,	13.674	\$	0.078957,4.6892e-005
CASK.1604,	TUNNEL.2,	30.824	\$	0.17799,9.1661e-005	CASK.2303,	TUNNEL.1,	12.930	\$	0.074664,4.2344e-005
CASK.1604,	TUNNEL.3,	132.56	\$	0.76547,0.00045461	CASK.2303,	TUNNEL.2,	90.672	\$	0.52357,0.00026963
CASK.1701,	TUNNEL.1,	137.89	\$	0.79623,0.00045156	CASK.2303,	TUNNEL.3,	65.491	\$	0.37816,0.00022459
CASK.1701,	TUNNEL.2,	25.339	\$	0.14632,7.5351e-005	CASK.2304,	TUNNEL.1,	5.6849	\$	0.032826,1.8617e-005
CASK.1701,	TUNNEL.3,	6.1499	\$	0.035511,2.1090e-005	CASK.2304,	TUNNEL.2,	31.044	\$	0.17926,9.2315e-005
CASK.1702,	TUNNEL.1,	68.793	\$	0.39723,0.00022528	CASK.2304,	TUNNEL.3,	132.32	\$	0.76406,0.00045377
CASK.1702,	TUNNEL.2,	86.707	\$	0.50067,0.00025784	CASK.2401,	TUNNEL.1,	137.91	\$	0.79636,0.00045164
CASK.1702,	TUNNEL.3,	13.529	\$	0.078123,4.6397e-005	CASK.2401,	TUNNEL.2,	25.207	\$	0.14555,7.4957e-005
CASK.1703,	TUNNEL.1,	12.704	\$	0.073359,4.1604e-005	CASK.2401,	TUNNEL.3,	6.2003	\$	0.035803,2.1263e-005
CASK.1703,	TUNNEL.2,	91.173	\$	0.52646,0.00027112	CASK.2402,	TUNNEL.1,	68.065	\$	0.39303,0.00022290
CASK.1703,	TUNNEL.3,	65.193	\$	0.37645,0.00022357	CASK.2402,	TUNNEL.2,	87.281	\$	0.50399,0.00025955
CASK.1704,	TUNNEL.1,	5.5697	\$	0.032161,1.8240e-005	CASK.2402,	TUNNEL.3,	13.655	\$	0.078847,4.6827e-005
CASK.1704,	TUNNEL.2,	31.366	\$	0.18112,9.3274e-005	CASK.2403,	TUNNEL.1,	12.813	\$	0.073989,4.1961e-005
CASK.1704,	TUNNEL.3,	132.07	\$	0.76260,0.00045290	CASK.2403,	TUNNEL.2,	90.843	\$	0.52456,0.00027014
CASK.1801,	TUNNEL.1,	138.30	\$	0.79856,0.00045289	CASK.2403,	TUNNEL.3,	65.521	\$	0.37834,0.00022470
CASK.1801,	TUNNEL.2,	24.981	\$	0.14425,7.4286e-005	CASK.2404,	TUNNEL.1,	5.7547	\$	0.033229,1.8845e-005
CASK.1801,	TUNNEL.3,	6.1334	\$	0.035416,2.1034e-005	CASK.2404,	TUNNEL.2,	31.095	\$	0.17955,9.2466e-005
CASK.1802,	TUNNEL.1,	68.068	\$	0.39304,0.00022291	CASK.2404,	TUNNEL.3,	132.32	\$	0.76405,0.00045377
CASK.1802,	TUNNEL.2,	87.271	\$	0.50393,0.00025952	CASK.2501,	TUNNEL.1,	138.26	\$	0.79836,0.00045277
CASK.1802,	TUNNEL.3,	13.649	\$	0.078815,4.6808e-005	CASK.2501,	TUNNEL.2,	25.000	\$	0.14436,7.4342e-005
CASK.1803,	TUNNEL.1,	12.694	\$	0.073297,4.1569e-005	CASK.2501,	TUNNEL.3,	6.1776	\$	0.035672,2.1185e-005
CASK.1803,	TUNNEL.2,	91.352	\$	0.52750,0.00027165	CASK.2502,	TUNNEL.1,	68.473	\$	0.39539,0.00022424
CASK.1803,	TUNNEL.3,	65.097	\$	0.37589,0.00022324	CASK.2502,	TUNNEL.2,	87.067	\$	0.50275,0.00025891
CASK.1804,	TUNNEL.1,	5.5500	\$	0.032047,1.8175e-005	CASK.2502,	TUNNEL.3,	13.573	\$	0.078375,4.6547e-005
CASK.1804,	TUNNEL.2,	31.344	\$	0.18099,9.3208e-005	CASK.2503,	TUNNEL.1,	12.768	\$	0.073729,4.1814e-005
CASK.1804,	TUNNEL.3,	132.06	\$	0.76255,0.00045287	CASK.2503,	TUNNEL.2,	91.066	\$	0.52584,0.00027080

CASK.2503,	TUNNEL.3,	65.294	\$	0.37703,0.00022391	CASK.2902,	TUNNEL.2,	87.286	\$	0.50402,0.00025956
CASK.2504,	TUNNEL.1,	5.8355	\$	0.033696,1.9110e-005	CASK.2902,	TUNNEL.3,	13.756	\$	0.079430,4.7173e-005
CASK.2504,	TUNNEL.2,	30.930	\$	0.17860,9.1976e-005	CASK.2903,	TUNNEL.1,	12.735	\$	0.073535,4.1704e-005
CASK.2504,	TUNNEL.3,	132.43	\$	0.76468,0.00045414	CASK.2903,	TUNNEL.2,	91.049	\$	0.52575,0.00027075
CASK.2601,	TUNNEL.1,	138.10	\$	0.79746,0.00045226	CASK.2903,	TUNNEL.3,	65.491	\$	0.37817,0.00022459
CASK.2601,	TUNNEL.2,	25.102	\$	0.14495,7.4647e-005	CASK.2904,	TUNNEL.1,	6.0330	\$	0.034837,1.9757e-005
CASK.2601,	TUNNEL.3,	6.2378	\$	0.036019,2.1392e-005	CASK.2904,	TUNNEL.2,	31.507	\$	0.18193,9.3691e-005
CASK.2602,	TUNNEL.1,	68.554	\$	0.39585,0.00022450	CASK.2904,	TUNNEL.3,	131.85	\$	0.76133,0.00045215
CASK.2602,	TUNNEL.2,	86.943	\$	0.50203,0.00025854	CASK.3001,	TUNNEL.1,	137.97	\$	0.79670,0.00045183
CASK.2602,	TUNNEL.3,	13.613	\$	0.078605,4.6684e-005	CASK.3001,	TUNNEL.2,	25.049	\$	0.14464,7.4489e-005
CASK.2603,	TUNNEL.1,	12.843	\$	0.074160,4.2058e-005	CASK.3001,	TUNNEL.3,	6.3339	\$	0.036574,2.1721e-005
CASK.2603,	TUNNEL.2,	91.332	\$	0.52738,0.00027160	CASK.3002,	TUNNEL.1,	68.734	\$	0.39689,0.00022509
CASK.2603,	TUNNEL.3,	64.991	\$	0.37528,0.00022288	CASK.3002,	TUNNEL.2,	86.655	\$	0.50038,0.00025769
CASK.2604,	TUNNEL.1,	5.8796	\$	0.033951,1.9254e-005	CASK.3002,	TUNNEL.3,	13.815	\$	0.079771,4.7376e-005
CASK.2604,	TUNNEL.2,	31.149	\$	0.17987,9.2628e-005	CASK.3003,	TUNNEL.1,	12.791	\$	0.073857,4.1886e-005
CASK.2604,	TUNNEL.3,	132.23	\$	0.76355,0.00045347	CASK.3003,	TUNNEL.2,	91.080	\$	0.52592,0.00027084
CASK.2701,	TUNNEL.1,	138.10	\$	0.79741,0.00045224	CASK.3003,	TUNNEL.3,	65.432	\$	0.37783,0.00022439
CASK.2701,	TUNNEL.2,	25.040	\$	0.14459,7.4462e-005	CASK.3004,	TUNNEL.1,	6.1398	\$	0.035453,2.0106e-005
CASK.2701,	TUNNEL.3,	6.3016	\$	0.036387,2.1610e-005	CASK.3004,	TUNNEL.2,	31.115	\$	0.17967,9.2525e-005
CASK.2702,	TUNNEL.1,	68.016	\$	0.39275,0.00022274	CASK.3004,	TUNNEL.3,	132.27	\$	0.76378,0.00045361
CASK.2702,	TUNNEL.2,	87.294	\$	0.50407,0.00025959	CASK.3101,	TUNNEL.1,	137.70	\$	0.79510,0.00045093
CASK.2702,	TUNNEL.3,	13.821	\$	0.079805,4.7396e-005	CASK.3101,	TUNNEL.2,	25.393	\$	0.14663,7.5511e-005
CASK.2703,	TUNNEL.1,	12.778	\$	0.073785,4.1846e-005	CASK.3101,	TUNNEL.3,	6.3698	\$	0.036781,2.1844e-005
CASK.2703,	TUNNEL.2,	90.618	\$	0.52326,0.00026947	CASK.3102,	TUNNEL.1,	68.267	\$	0.39420,0.00022356
CASK.2703,	TUNNEL.3,	65.768	\$	0.37977,0.00022554	CASK.3102,	TUNNEL.2,	87.177	\$	0.50339,0.00025924
CASK.2704,	TUNNEL.1,	5.8947	\$	0.034038,1.9304e-005	CASK.3102,	TUNNEL.3,	13.703	\$	0.079126,4.6993e-005
CASK.2704,	TUNNEL.2,	31.135	\$	0.17978,9.2585e-005	CASK.3103,	TUNNEL.1,	12.902	\$	0.074502,4.2252e-005
CASK.2704,	TUNNEL.3,	132.22	\$	0.76350,0.00045344	CASK.3103,	TUNNEL.2,	91.407	\$	0.52781,0.00027182
CASK.2801,	TUNNEL.1,	137.92	\$	0.79641,0.00045167	CASK.3103,	TUNNEL.3,	65.078	\$	0.37578,0.00022317
CASK.2801,	TUNNEL.2,	25.255	\$	0.14583,7.5100e-005	CASK.3104,	TUNNEL.1,	6.2118	\$	0.035869,2.0342e-005
CASK.2801,	TUNNEL.3,	6.2785	\$	0.036254,2.1531e-005	CASK.3104,	TUNNEL.2,	30.914	\$	0.17851,9.1928e-005
CASK.2802,	TUNNEL.1,	68.305	\$	0.39442,0.00022369	CASK.3104,	TUNNEL.3,	132.43	\$	0.76470,0.00045415
CASK.2802,	TUNNEL.2,	87.253	\$	0.50383,0.00025946	CASK.3201,	TUNNEL.1,	138.23	\$	0.79819,0.00045268
CASK.2802,	TUNNEL.3,	13.602	\$	0.078545,4.6648e-005	CASK.3201,	TUNNEL.2,	24.820	\$	0.14332,7.3808e-005
CASK.2803,	TUNNEL.1,	12.785	\$	0.073827,4.1869e-005	CASK.3201,	TUNNEL.3,	6.3863	\$	0.036877,2.1901e-005
CASK.2803,	TUNNEL.2,	91.110	\$	0.52610,0.00027094	CASK.3202,	TUNNEL.1,	67.949	\$	0.39236,0.00022252
CASK.2803,	TUNNEL.3,	65.358	\$	0.37740,0.00022414	CASK.3202,	TUNNEL.2,	87.413	\$	0.50475,0.00025994
CASK.2804,	TUNNEL.1,	6.0104	\$	0.034706,1.9683e-005	CASK.3202,	TUNNEL.3,	13.866	\$	0.080068,4.7552e-005
CASK.2804,	TUNNEL.2,	31.037	\$	0.17922,9.2294e-005	CASK.3203,	TUNNEL.1,	13.070	\$	0.075471,4.2802e-005
CASK.2804,	TUNNEL.3,	132.37	\$	0.76435,0.00045394	CASK.3203,	TUNNEL.2,	90.901	\$	0.52489,0.00027031
CASK.2901,	TUNNEL.1,	137.95	\$	0.79655,0.00045175	CASK.3203,	TUNNEL.3,	65.388	\$	0.37757,0.00022424
CASK.2901,	TUNNEL.2,	25.208	\$	0.14556,7.4961e-005	CASK.3204,	TUNNEL.1,	6.2751	\$	0.036235,2.0550e-005
CASK.2901,	TUNNEL.3,	6.3047	\$	0.036405,2.1621e-005	CASK.3204,	TUNNEL.2,	31.217	\$	0.18026,9.2829e-005
CASK.2902,	TUNNEL.1,	68.094	\$	0.39320,0.00022299	CASK.3204,	TUNNEL.3,	132.12	\$	0.76292,0.00045309