# APPENDIX U: DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTCILE EROSION (SPE)



# APPENDIX V: DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE)



# APPENDIX W: DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE)



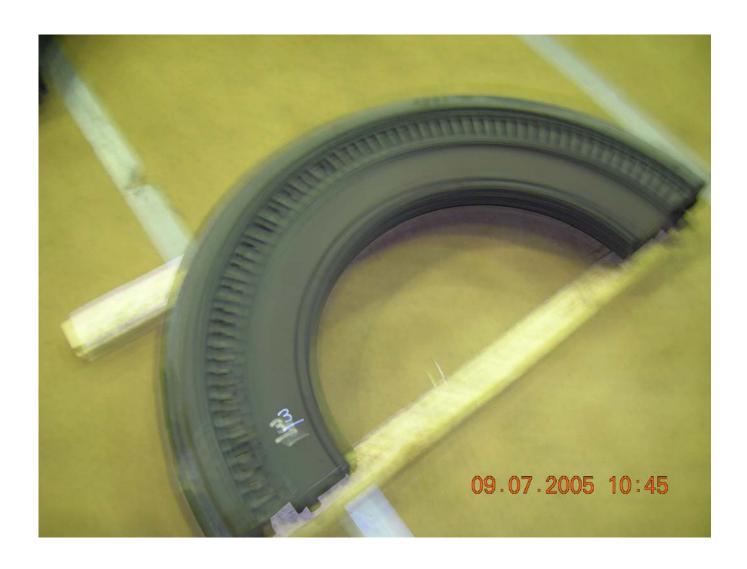
#### APPENDIX X: STAGE 2 DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE) ON STAGE 2



### APPENDIX Y: $2^{ND}$ STAGE DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION



### APPENDIX Z: $3^{RD}$ STAGE DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION



# APPENDIX AA: $6^{TH}$ STAGE DIAPHRAGM SHOWING THE EFFECTS OF SOLID PARTICLE EROSION (SPE)



#### APPENDIX AB: INTERMEDIATE SECTION ROTOR SHOWING THE ROTATING BLADES



APPENDIX AC: JOHN AMOO-OTOO, PLANT ELECTRICAL ENGINEER GETTING THE HIT SKID (FOR VACUUM DECAY AND PRESSURE DECAY TEST) ON THE GENRATOR SET UP DURING THE OUTAGE IN OCTOBER 2005 FOR TESTING TO BE DONE



#### APPENDIX AD: OUTER SHELLS OF THE HIGH PRESSURE AND INTERMEDIATE PRESSURE SECTION BEING INSTALLED.



APPENDIX AE: Typical Thermodynamic Properties of Steam and Generator Reactive Capability Curve

340	<b>330</b> (426.18)	<b>320</b> (423.307)	<b>310</b> (420.365)	<b>300</b> (417.347)	<b>290</b> (414.251)	<b>280</b> (411.071)	270 (407.802)	<b>260</b> (404.437)	<b>250</b> (400.97)	<b>240</b> (397.393)	<b>230</b> (393.698)	<b>220</b> (389.876)	<b>210</b> (385.915)	200 (381.805)	1377.5311
v 0.0	v 0.0	h 400	v 0.0 h 39 s 0.0	v 0.0 h 39 s 0.1	v 0.0 h 39 s 0.0	v 0.0	v 0.0 h 38 s 0.	v 0.0 h 37 s 0.	v 0.0 h 37 s 0.	v 0.0 h 37 s 0.	v 0.0 h 36 s 0.	v 0.0 h 36 s 0.	v 0.0	y 0.0	s o
0.01908	0.01903 1 403.70 12 0.5991 1.	0.01899 400.53 0.5956 1.	0.01894 397.30 12 0.5920 1.	0.01889 393.99 12 0.5882 1.	0.01885 390.60 12 0.5844	0.01880 387.12 12 0.5805 1.	0.01875 383.56 0.5764	0.01870 379.90 13 0.5722 1	0.01865 376.14 11 0.5679 1	0.01860 372.27 1: 0.5634 1.	0.01855 368.28 1: 0.5588 1	0.01850 364.17 0.5540	0.01844 359.91 0.5490	0.01839 355.51 1 0.5438 1	0.5384 1
1.364	1.405 1203.6 1.5021	1.448 1203.4 1.5048	1.494 1203.1 1.5076	1.543 1202.8 1.5105	1.595 1202.5 1.5135	1.650 1202.2 1.5166	1.710 1201.9 1.5197	1.774 1201.5 1.5230	1.843 1201.0 1.5264	1.918 1200.6 1.5299	1.998 1200.1 1.5336	2.086 1199.5 1.5374	2.182 1198.9 1.5413	2.287 1198.3 1.5454	1.5498
										1.927 1202.4 1.5320	2.021 1204.4 1.5385	2.124 1206.3 1.5453	2.236 1208.2 1.5522	2.360 1210.1 1.5593	1.5667 1
	1.468 1220.9 1 1.5213 1	1.521 1222.5 1.5261	1.576 1224.1 1 1.5311 1	1.636 1225.7 1.5361	1.699 1227.3 1.5412	1.767 1228.8 1 1.5464 1	1.839 1230.4 1.5518	1.917 1231.9 1.5573	2.002 1233.4 1.5629	2.093 1234.9 1.5687	2.192 1236.3 1.5747	2.300 1237.8 1.5808	2.418 1239.2 1.5872	2.548 1240.6 1.5938	1.6006
1.540	1.591 1254.0 1.5568	1.646 1255.2 1.5612	1.704 1256.5 1.5657	1.766 1257.7 1.5703	1.833 1258.9 1.5750	1.904 1260.0 1.5798	1.980 1261.2 1.5848	2.062 1262.4 1.5899	2.150 1263.5 1.5951	2.246 1264.6 1.6006	2.350 1265.7 1.6062	2.464 1266.9 1.6120	2.588 1268.0 1.6180	2.725 1269.0 1.6242	1.6307
	1.705 1284.4 1.5876	1.762 1285.3 1.5918	1.823 1286.3 1.5960	1.888 1287.2 1.6003	1.958 1288.1 1.6048	2.032 1289.1 1.6093	2.112 1290.0 1.6140	2.198 1290.9 1.6189	2.291 1291.8 1.6239	2.391 1292.7 1.6291	2.501 1293.6 1.6344	2.620 1294.5 1.6400	2.750 1295.3 1.6458	2.894 1296.2 1.6518	1.6581
	1.813 1313.0 1.6153	1.873 1313.7 1.6192	1.936 1314.5 1.6233	2.004 1315.2 1.6274	2.077 1316.0 1.6317	2.155 1316.8 1.6361	2.239 1317.5 1.6406	2.329 1318.2 1.6453	2.426 1319.0 1.6502	2.532 1319.7 1.6552	2.646 1320.4 1.6604	2.771 1321.2 1.6658	2.908 1321.9 1.6715	3.058 1322.6 1.6773	1.6835
	1.916 1340.4 1.6406	1.979 1341.1 1.6445	2.045 1341.7 1.6484	2.117 1342.4 1.6524	2.193 1343.0 1.6566	2.274 1343.6 1.6609	2.362 13 <b>44</b> .2 1.6653	2.456 1344.9 1.6699	2.558 1345.5 1.6746	2.668 1346.1 1.6795	2.788 1346.7 1.6846	2.919 1347.3 1.6900	3.062 1347.9 1.6955	3.219 1348.6 1.7013	1.7073
1.955	2.017 1367.3 1.6643	2.082 1367.8 1.6680	2.152 1368.4 1.6719	2.226 1368.9 1.6758	2.306 1369.5 1.6799	2.391 1370.0 1.6841	2.482 1370.5 1.6885	2.581 1371.1 1.6930	2.687 1371.6 1.6976	2.802 1372.1 1.7025	2.928 1372.7 1.7075	3.064 1373.2 1.7128	3.214 1373.7 1.7182	3.378 1374.3 1.7239	1.7299
2 146	2.213 1420.0 1.7079	2.284 1420.5 1.7116	2.360 1420.9 1.7153	2.441 1421.3 1.7192	2.527 1421.7 1.7232	2.619 1422.1 1.7273	2.719 1422.6 1.7315	2.826 1423.0 1.7359	2.941 1423.4 1.7405	3.066 1423.8 1.7452	3.202 1424.2 1.7502	3.350 1424.7 1.7553	3.513 1425.1 1.7607	3.691 1425.5 1.7663	1.7722
2.333	2.405 1472.5 1.7480	2.482 1472.9 1.7516	2.564 1473.2 1.7553	2.651 1473.6 1.7591	2.744 1473.9 1.7630	2.844 1474.2 1.7671	2.951 1474.6 1.7713	3.066 1474.9 1.7756	3.191 1475.3 1.7801	3.326 1475.6 1.7848	3.473 1476.0 1.7897	3.633 1476.3 1.7948	3.808 1476.7 1.8001	4.001 1477.0 1.8057	1.8115
2.518	2.595 1525.3 1.7855	2.677 1525.6 1.7890	2.765 1525.9 1.7927	2.859 1526.2 1.7964	2.958 1526.5 1.8003	3.066 1526.8 1.8043	3.181 1527.1 1.8085	3.304 1527.3 1.8128	3.438 1527.6 1.8173	3.583 1527.9 1.8219	3.741 1528.2 1.8268	3.912 1528.5 1.8318	4.101 1528.8 1.8371	4.308 1529.1 1.8426	1.8484
2.700	2.783 1578.7 1.8208	2.871 1578.9 1.8243	2.964 1579.2 1.8280	3.064 1579.4 1.8317	3.171 1579.6 1.8356	3.286 1579.9 1.8395	3.408 1580 1 1.8437	3.541 1580.4 1.8480	3.684 1580.6 1.8524	3.839 1580.9 1.8570	4.007 1581.1 1.8618	4.190 1581.4 1.8668	4.392 1581.6 1.8721	4.613 1581.9 1.8776	1.8834
		-		-								w <b></b> 0		5,00	- 4
	(4	0	-											2500	
(493 195)	(489.742)	(4)	580 (482.571)	(478.843)	(475.012)	520 (471.07)	(467.01)	480 (462.823)	460 (458.5)	440 (454.03)	(449.401)	400 (444.599)	380 (439.609)	360 (434.411)	(431.728)
5 <	v <del>-</del> <	(486.202) h	(482.571) h	(478.843) h	540 v (475.012) h	520 v (471.07) h	500 v (467.01) h	480 v (462.823) h	460 v (458.5) h	440 v (454.03) h	(479.401) h	400 v (444.599) h	380 v (439.609) h	360 v (434.411) h	(431.728) h
v 0.02028	v 0.02021 h 475.84 s 0.6766	600 v 0.02013 (486.202) h 471.70 s 0.6723	580 v 0.02006 (482.571) h 467.47 s 0.6679	560 v 0.01998 (478.843) h 463.14 s 0.6634	540 v 0.01990 (475.012) h 458.71 s 0.6587	520 v 0.01882 (471.07) h 454.18 s 0.6540	500 v 0.01975 (467.01) h 449.52 s 0.6490	480 v 0.01967 (462.823) h 444.75 s 0.6439	460 v 0.01959 (458.5) h 439.83 s 0.6387	440 v 0.01950 (454.03) h 434.77 1 s 0.6332	(419.401) h 429.56 1 s 0.6276	400 v 0.01934 (444.599) h 424.17 s 0.6217	380 v 0.01925 (439.609) h 418.59 s 0.6156	360 v 0.01917 (434.411) h 412.81 s 0.6092	(431.728) h 409.83 s 0.6059
640 v 0.02028 0.720	v <del>-</del> <	600 v 0.02013 (486.202) h 471.70 1 s 0.6723	580 v 0.02006 (482.571) h 467.47 1 s 0.6679	560 v 0.01998 (478.843) h 463.14 t: s 0.6634	540 v (475.012) h	520 v (471.07) h	500 v (467.01) h	480 v (462.823) h	460 v (458.5) h	440 v (454.03) h	(479.401) h	400 v (444.599) h	380 v (439.609) h	360 v (434.411) h	(431.728) h 409 s 0.60
v 0.02028	v 0.02021 0.744 h 475.84 1203.35 s 0.6766 1.4428	(486.202) h 471.70 1203.66 s 0.6723 1.4461	580 v 0.02006 0.797 (482.571) h 487.47 1203.93 s 0.6679 1.4495	560 v 0.01998 0.826 (478.843) h 463.14 1204.17 s 0.6634 1.4529	540 v 0.01990 (475.012) h 458.71 s 0.6587	520 v 0.01882 (471.07) h 454.18 s 0.6540	500 v 0.01975 (467.01) h 449.52 s 0.6490	480 v 0.01967 (462.823) h 444.75 s 0.6439	460 v 0.01959 (458.5) h 439.83 s 0.6387	440 v 0.01950 (454.03) h 434.77 1 s 0.6332	(435.401) h 429.56 1204.71 s 0.6276 1.4802	400 v 0.01934 1.161 (444.599) h 424.17 1204.59 s 0.6217 1.4847	380 v 0.01925 1.222 (439.609) h 418.59 1204.40 s 0.6156 1.4894	360 v 0.01917 1.289 (434.411) h 412.81 1204.15 s 0.6092 1.4943	(431.728) h 409.83 1203.99 s 0.6059 1.4968
v 0.02028	v 0.02021 0.744 h 475.84 1203.35 s 0.6766 1.4428	600 v 0.02013 (486.202) h 471.70 s 0.6723	580 v 0.02006 0.797 (482.571) h 487.47 1203.93 s 0.6679 1.4495	560 v 0.01998 0.826 (478.843) h 463.14 1204.17 s 0.6634 1.4529	540 v 0.01990 (475.012) h 458.71 s 0.6587	520 v 0.01882 (471.07) h 454.18 s 0.6540	500 v 0.01975 (467.01) h 449.52 s 0.6490	480 v 0.01967 (462.823) h 444.75 s 0.6439	460 v 0.01959 (458.5) h 439.83 s 0.6387	440 v 0.01950 (454.03) h 434.77 1 s 0.6332	(432,401) h 429.56 1204.71 1205.2 1.4808	400 v 0.01934 1.161 1.174 (444.599) h 424.17 1204.59 1208.8 s 0.6217 1.4847 1.4894	380 v 0.01925 1.222 1.247 (439.609) h 418.59 1204.40 1212.4 s 0.6156 1.4894 1.4982	360 v 0.01917 1.289 1.329 (434.411) h 412.81 1204.15 1215.8 s 0.6092 1.4943 1.5073	(431.728) h 409.83 1203.99 1217.5 s 0.6059 1.4968 1.5119
v 0.02028 0.720 0.732 h 479.89 1203.02 1209.3	v 0.02021 0.744 h 475.84 1203.35 s 0.6766 1.4428	(486.202) h 471.70 1203.66 s 0.6723 1.4461	580 v 0.02006 0.797 0.829 (482.571) h 467.47 1203.93 (1219.1 s 0.6679 1.4495 <b>c</b> 1.4654	560 v 0.01998 0.826 0 0.865 0 0.865 (478.843) h 463.14 1204.17 222.2 1.4720	540 v 0.01990 0.858 0.905 (475.012) h 458.71 1204.37 1225.3 s 0.6587 1.4565 1.4786	520 v 0.01982 0.891 0.947 (471.07) h 454.18 1204.54 1228.3 s 0.6540 1.4601 1.4853	500 v 0.01975 0.928 0.992 (467.01) h 449.52 1204.67 1231.2 s 0.6490 1.4639 1.4921	480 v 0.01967 0.967 1.041 (462.823) h 444.75 1204.75 1234.1 s 0.6439 1.4677 1.4990	460     v     0.01959     1.009     1.094       (458.5)     h     439.83     1204.79     1236.9       s     0.6387     1.4718     1.5060	440 v 0.01950 1.055 1.152 (454.03) h 434.77 1204.78 1239.7 s 0.6332 1.4759 1.5132	(457.401) h 429.56 1204.71 1205.2 1242.4 s 0.6276 1.4802 1.4808 1.5206	400 v 0.01934 1.161 1.174 1.284 (444.599) h 424.17 1204.59 1208.8 1245.1 s 0.6217 1.4847 1.4894 1.5282	380 v 0.01925 1.222 1.247 1.361 (439.609) h 418.59 1204.40 1212.4 1247.7 s 0.6156 1.4894 1.4962 1.5360	360 v 0.01917 1.289 1.329 1.445 (434.411) h 412.81 1204.15 1215.8 1250.3 s 0.6092 1.4943 1.5073 1.5441	(431.728) h 409.83 1203.99 1217.5 1251.5 s 0.6059 1.4968 1.5119 1.5483
v 0.02028 0.720 h 479.89 1203.02	h 475.84 1203.35 s 0.6766 1.4428	(486.202) h 471.70 1203.66 1 1215.9 s 0.6723 1.4461	580 v 0.02006 0.797 (482.571) h 467.47 1203.93 s 0.6679 1.4495	560 v 0.01998 0.826 0.865 0.948 (478.843) h 463.14 1204.17 1222 1260.3 s 0.6634 1.4529 1.4720 1.5106	540 v 0.01990 0.858 (475.012) h 458.71 1204.37 s 0.6587 1.4565	520 v 0.01982 0.891 (471.07) h 454.18 1204.54 s 0.6540 1.4601	500 v 0.01975 0.928 (467.01) h 449.52 1204.67 s 0.6490 1.4639	480 v 0.01967 0.967 1.041 1.130 (462.823) h 444.75 1204.75 1234.1 1269.1 s 0.6439 1.4677 1.4990 1.5346	460     v     0.01959     1.009     1.094     1.185       (458.5)     h     439.83     1204.79     1236.9     1271.3       s     0.6387     1.4718     1.5060     1.5409	440 v 0.01950 1.055 1.152 1.245 (454.03) h 434.77 1204.78 1239.7 1273.4 s 0.6332 1.4759 1.5132 1.5474	(497.401) h 429.56 1204.71 1205.2 1242.4 1275.4 s 0.6276 1.4802 1.4808 1.5206 1.542	400 v 0.01934 1.161 1.174 1.284 1.384 (444.599) h 424.17 1204.59 1208.8 1245.1 1277.5 s 0.6217 1.4847 1.4894 1.5282 1.5611	380 v 0.01925 1.222 1.247 1.361 1.463 (439.609) h 418.59 1204.40 1212.4 12477 1279.5 s 0.6156 1.4894 1.4982 1.5360 1.5683	360 v 0.01917 1.289 1.329 1.445 1.552 (434.411) h 412.81 1204.15 1215.8 1250.3 1281.5 s 0.6092 1.4943 1.5073 1.5441 1.5758	(431.728) h 409.83 1203.99 1217.5 1251.5 1282.4 s 0.6059 1.4968 1.5119 1.5483 1.5797
v 0.02028 0.720 0.732 0.810 h 479.89 1203.02 1209.3 1250.9	h 475.84 1203.35 1212.7 1253.3 s 0.6766 1.4428 1.4526 1.4939	(486.202) h 471.70 1203.66 / 1215.9 1255.6 s 0.6723 1.4461	580 v 0.02006 0.797 0.829 0.910 (482.571) h 467.47 1203.93 1219.1 1258.0 s 0.6679 1.4495 c 1.4654 1.5049	560 v 0.01998 0.826 0.865 0.948 (478.843) h 463.14 1204.17 1222 1260.3 s 0.6634 1.4529 1.4720 1.5106	540 v 0.01990 0.858 0.905 0.988 (475.012) h 458.71 1204.37 1225.3 1262.5 s 0.6587 1.4565 1.4786 1.5164	520 v 0.01982 0.891 0.947 (471.07) h 454.18 1204.54 1228.3 s 0.6540 1.4601 1.4853	500 v 0.01975 0.928 0.992 (467.01) h 449.52 1204.67 1231.2 s 0.6490 1.4639 1.4921	480 v 0.01967 0.967 1.041 1.130 1.211 (462.823) h 444.75 1204.75 1234.1 1269.1 1300.8 s 0.6439 1.4677 1.4890 1.5346 1.5682	460     v     0.01959     1.009     1.094     1.185     1.269       (458.5)     h     439.83     1204.79     1236.9     1271.3     1302.5       s     0.6387     1.4718     1.5060     1.5409     1.5711	440     v     0.01950     1.055     1.152     1.245     1.332       (454.03)     h     434.77     1204.78     1239.7     1273.4     1304.2       s     0.6332     1.4759     1.5132     1.5474     1.5772	(420) v 0.01942 1.106 1.107 1.215 1.311 1.401 (449.401) h 429.56 1204.71 1205.2 1242.4 1275.4 1305.8 s 0.6276 1.4802 1.4808 1.5206 1.5542 1.5835	400 v 0.01934 1.161 1.174 1.284 1.384 1.476 (444.599) h 424.17 1204.59 1208.8 1245.1 1277.5 1307.4 1.4894 1.5282 1.5611 1.5901	380 v 0.01925 1.222 1.247 1.361 1.463 1.560 (439.609) h 418.59 1204.40 1212.4 1247.7 1279.5 1309.0 s 0.6156 1.4894 1.4982 1.5360 1.5683 1.5969	360 v 0.01917 1.289 1.329 1.445 1.552 1.653 (434.411) h 412.81 1204.15 1215.8 1250.3 1281.5 1310.6 s 0.6092 1.4943 1.5073 1.5441 1.5758 1.6040	(431.728) h 409.83 1203.99 1217.5 1251.5 1282.4 1311.4 s 0.6059 1.4968 1.5119 1.5483 1.5797 1.6077
v 0.02028 0.720 0.732 0.810 0.879	h 475.84 1203.35 1212.7 1253.3 1286.5 0.6766 1.4428 1.4526 1.4939 1.5279	(486.202) h 471.70 1203.66 / 1215.9 125.6 1290.3 1.4461 / 1.4590 1.4993 1.5329	580 v 0.02006 0.797 0.829 0.910 (482.571) h 467.47 1203.93 1219.1 1258.0 s 0.6679 1.4495 4 1.4654 1.5049	560 v 0.01998 0.826 0.885 0.948 1.022   (478.843) h 463.14 1204.17 1222.2 1260.3 1293.9   s 0.6634 1.4529 1.4720 1.5106 1.5431	540     v     0.01990     0.858     0.905     0.988     1.064       (475.012)     h     458.71     1204.37     1226.3     1226.3     1262.5     1295.7       s     0.6587     1.4565     1.4786     1.5164     1.5485	520 v 0.01982 0.891 0.947 1.032 (471.07) h 454.18 1204.54 1228.3 1264.8 s 0.6540 1.4601 1.4853 1.5223	500 v 0.01975 0.928 0.992 1.079 (467.01) h 449.52 1204.67 1231.2 1267.0 s 0.6490 1.4639 1.4921 1.5284	480 v 0.01967 0.967 1.041 1.130 1.211   (462.823) h 444.75 1204.75 1234.1 1269.1 1300.8   s 0.6439 1.4677 1.4990 1.5346 1.5652	460     v     0.01959     1.009     1.094     1.185     1.269     1.348       (458.5)     h     439.83     1204.79     1236.9     1271.3     1302.5     1331.8       s     0.6387     1.4718     1.5060     1.5409     1.5711     1.5982	440     v     0.01950     1.055     1.152     1.245     1.332     1.414       (454.03)     h     434.77     1204.78     1239.7     1273.4     1304.2     1333.2       s     0.6332     1.4759     1.5132     1.5474     1.5772     1.6040	(420) v 0.01942 1.106 1.107 1.215 1.311 1.401 (449.401) h 429.56 1204.71 1205.2 1242.4 1275.4 1305.8 s 0.6276 1.4802 1.4808 1.5206 1.5542 1.5835	400 v 0.01934 1.161 1.174 1.284 1.384 1.476 1.565 (444.599) h 424.17 1204.59 1208.8 1245.1 1277.5 1307.4 1335.9 s 0.6217 1.4847 1.4894 1.5282 1.5611 1.5901 1.6163	380 v 0.01925 1.222 1.247 1.361 1.463 1.560 1.652 (439.609) h 418.59 1204.40 1212.4 1247.7 1279.5 1309.0 1337.2 s 0.6156 1.4894 1.4982 1.5360 1.5683 1.5969 1.6229	360 v 0.01917 1.289 1.329 1.445 1.552 1.653 1.749 (434.411) h 412.81 1204.15 1215.8 1250.3 1281.5 1310.6 1338.5 s 0.6092 1.4943 1.5073 1.5441 1.5758 1.6040 1.6297	(431.728) h 409.83 1203.99 1217.5 1251.5 1282.4 1311.4 1339.2 s 0.6059 1.4968 1.5119 1.5483 1.5797 1.6077 1.6333
v 0.02028 0.720 0.732 0.810 0.879 0.941	v 0.02021 0.744 v 0.762 0.841 0.911 0.975   h 475.84 1203.35 1212.7 1253.3 1286.5 1320.5   s 0.6766 1.4428 1.4526 1.4939 1.5279 1.5575	600 v 0.02013 0.770 9 0.794 0.875 0.946 1.011 (486.202) h 471.70 1203.66 / 1215 9 125.6 1290.3 1322.0 s 0.6723 1.4461 / 1.4590 1.4993 1.5329 1.5621	580 v 0.02006 0.797 0.829 0.910 0.982 1.049 (482.571) h 467.47 1203.93 1219.1 1258.0 1292.1 1323.4 s 0.6679 1.4495 9 1.4654 1.5049 1.5380 1.5668	560 v 0.01998 0.826 0.865 0.948 1.022 1.090   (478.843) h 463.14 1204.17 1222 1260.3 1293.9 1324.9   s 0.6634 1.4529 1.4720 1.5106 1.5431 1.5717	540     v     0.01990     0.858     0.905     0.988     1.064     1.134       (475.012)     h     458.71     1204.37     1226.3     1226.3     1262.5     1295.7     1326.3       s     0.6587     1.4786     1.5164     1.5164     1.5485     1.5767	520 v 0.01982 0.891 0.947 1.032 1.109 1.182 (471.07) h 454.18 1204.54 1228.3 1264.8 1297.4 1327.7 s 0.6540 1.4861 1.4863 1.5223 1.5539 1.5818	500     v     0.01975     0.928     0.992     1.079     1.158     1.233       (467.01)     h     449.52     1204.67     1231.2     1267.0     1299.1     1329.1       s     0.6490     1.4639     1.4921     1.5284     1.5595     1.8871	480 v 0.01967 0.967 1.041 1.130 1.211 1.288   (462.823) h 444.75 1204.75 1234.1 1269.1 1300.8 1330.5   s 0.6439 1.4677 1.4990 1.5346 1.5652 1.5925	460 v 0.01959 1.009 1.094 1.185 1.269   (458.5) h 439.83 1204.79 1236.9 1271.3 1302.5   s 0.6387 1.4718 1.5080 1.5409 1.5711	440     v     0.01950     1.055     1.152     1.245     1.332     1.414     1.493       (454.03)     h     434.77     1204.78     1239.7     1273.4     1304.2     1333.2     1361.1       s     0.6332     1.4759     1.5132     1.5474     1.5772     1.6040     1.6286	(420) v 0.01942 1.106 1.107 1.215 1.311 1.401 (449.401) h 429.56 1204.71 1205.2 1242.4 1275.4 1305.8 s 0.6276 1.4802 1.4808 1.5206 1.5542 1.5835	400 v 0.01934 1.161 1.174 1.284 1.384 1.476 1.565 1.560 (444.599) h 424.17 1204.59 1208.8 1245.1 1277.5 1307.4 1335.9 1363.4 1.4894 1.5282 1.5611 1.5901 1.5163 1.6406	380 v 0.01925 1.222 1.247 1.361 1.463 1.560 1.652 1.741 (439.609) h 418.59 1204.40 1212.4 1247.7 1279.5 1309.0 1337.2 1364.5 1.4982 1.5360 1.5683 1.5969 1.6229 1.6470	360 v 0.01917 1.289 1.329 1.445 1.552 1.653 1.749 1.842 (434.411) h 412.81 1204.15 1215.8 1250.3 1281.5 1310.6 1338.5 1365.6 s 0.6092 1.4943 1.5073 1.5441 1.5758 1.6040 1.6297 1.6536	(431.728) h 409.83 1203.99 1217.5 1251.5 1282.4 1311.4 1339.2 1366.2 s 0.6059 1.4968 1.5119 1.5483 1.5797 1.6077 1.6333 1.6571
v 0.02028 0.720 0.732 0.810 0.879 0.941 1.000 h 479.89 1203.02 1209 1209 1209 1209 1209 1209 1209 12	v 0.02021 0.744 1.091 0.762 0.841 0.911 0.975 1.035 h 475.84 1203.35 1212.7 1253.3 1288.5 1320.5 1350.6 s 0.6766 1.4428 1.4526 1.4939 1.5279 1.5575 1.5839	(486.202) h 471.70 1203.66 s 0.6723 1.4461 1.4590 1.4993 1.5329 1.5621 1.5884	580 v 0.02006 0.797 0.829 0.910 0.982 1.049 1.112 (482.571) h 467.47 1203.93 1219.1 1258.0 1292.1 1323.4 1353.0 1.4654 1.5049 1.5380 1.5668 1.5929	560 v 0.01998 0.826 0.865 0.948 1.022 1.090 1.155   (478.843) h 463.14 1204.17 1222 1260.3 1293.9 1324.9 1354.2   s 0.6634 1.4529 1.4720 1.5106 1.5431 1.5717 1.5975	540     v     0.01990     0.858     0.905     0.988     1.064     1.134     1.201       (475.012)     h     458.71     1204.37     1226.3     1226.3     1226.5     1295.7     1226.3     1385.3       s     0.6587     1.4565     1.4786     1.5164     1.5485     1.5767     1.6023	520 v 0.01982 0.891 0.947 1.032 1.109 1.182 1.250 (471.07) h 454.18 1204.54 1228.3 1264.8 1297.4 1327.7 1356.5 s 0.6540 1.4601 1.4853 1.5223 1.5539 1.5818 1.6072	500 v 0.01975 0.928 0.992 1.079 1.158 1.233 1.304 (467.01) h 449.52 1204.67 1231 2 1267.0 1299.1 1329.1 1357.7 s 0.6490 1.4639 1.4921 1.5284 1.5895 1.5871 1.6123	480 v 0.01967 0.967 1.041 1.130 1.211 1.288 1.361   (462.823) h 444.75 1204.75 1234.1 1269.1 1300.8 1330.5 1358.8   s 0.6439 1.4677 1.4990 1.5346 1.5652 1.5925 1.6176	460     v     0.01959     1.009     1.094     1.185     1.269     1.348     1.424       (458.5)     h     439.83     1204.79     1236.9     1271.3     1302.5     1331.8     1360.0       s     0.6387     1.4718     1.5060     1.5409     1.5711     1.5882     1.6230	440     v     0.01950     1.055     1.152     1.245     1.332     1.414     1.493       (454.03)     h     434.77     1204.78     1239.7     1273.4     1304.2     1333.2     1361.1       s     0.6332     1.4759     1.5132     1.5474     1.5772     1.6040     1.6286	(497.401) h 429.56 1204.71 1205.2 1242.4 1275.4 1305.8 (334.5) s 0.6276 1.4802 1.4808 1.5206 1.5542 1.5835 1.5100	400 v 0.01934 1.161 1.174 1.284 1.384 1.476 1.565 1.550 1.733 (444.599) h 424.17 1204.59 1208.8 1245.1 1277.5 1307.4 1335.9 1363.4 1390.4 s 0.6217 1.4847 1.4894 1.5282 1.5611 1.5901 1.5163 1.6406 1.6634	380 v 0.01925 1.222 1.247 1.361 1.463 1.560 1.652 (439.609) h 418.59 1204.40 1212.4 1247.7 1279.5 1309.0 1337.2 s 0.6156 1.4894 1.4982 1.5360 1.5683 1.5969 1.6229	360 v 0.01917 1.289 1.329 1.445 1.552 1.653 1.749 (434.411) h 412.81 1204.15 1215.8 1250.3 1281.5 1310.6 1338.5 s 0.6092 1.4943 1.5073 1.5441 1.5758 1.6040 1.6297	(431.728) h 409.83 1203.99 1217.5 1251.5 1282.4 1311.4 1339.2 1366.2 1392.8 s 0.6059 1.4968 1.5119 1.5483 1.5797 1.6077 1.6333 1.6571 1.6796
v 0.02028 0.720 0.732 0.810 0.879 0.941 1.000 1.056 h 479.89 1203.02 1209 1260 12867 1319 1340 3 1378 3	v 0.02021 0.744 1.091 0.975 1.035 1.093 h 475.84 1203.35 1212.7 1253.3 1288.5 1320.5 1350.6 1379.3 s 0.6766 1.4428 1.4526 1.4939 1.5279 1.5575 1.5839 1.6083	(486.202) h 471.70 1203.66 s 0.6723 1.4461 1 1.4590 1.4993 1.5329 1.5621 1.5884 1.6125	580 v 0.02006 0.797 0.829 0.910 0.982 1.049 1.112 1.173 (482.571) h 467.47 1203.93 1219.1 1258.0 1292.1 1323.4 1353.0 1381.4 13654 1.5049 1.5380 1.5668 1.5929 1.6169	560 v 0.01998 0.826 0.865 0.948 1.022 1.090 1.155 1.218   (478.843) h 463.14 1204.17 1222 1260.3 1293.9 1324.9 1354.2 1382.4   s 0.6634 1.4529 1.4720 1.5106 1.5431 1.5717 1.5975 1.6214	540     v     0.01990     0.858     0.905     0.988     1.064     1.134     1.201     1.266       (475.012)     h     458.71     1204.37     1225.3     1225.3     1226.5     1295.7     1326.3     1385.3     183.4       s     0.6587     1.4565     1.4786     1.5164     1.5485     1.5767     1.6023     1.6280	520 v 0.01982 0.891 0.947 1.032 1.109 1.182 1.250 1.317 (471.07) h 454.18 1204.54 1228.3 1264.8 1297.4 1327.7 1356.5 1384.4 s 0.6540 1.4601 1.4853 1.5223 1.5539 1.5818 1.6072 1.6308	500 v 0.01975 0.928 0.992 1.079 1.158 1.233 1.304 1.372 (467.01) h 449.52 1204.67 1231.2 1267.0 1299.1 1329.1 1357.7 1385.4 s 0.6490 1.4639 1.4921 1.5284 1.5595 1.5871 1.6123 1.6357	480 v 0.01967 0.967 1.041 1.130 1.211 1.288 1.361 1.433   (462.823) h 444.75 1204.75 1234.1 1269.1 1300.8 1330.5 1358.8 1386.4   s 0.6439 1.4677 1.4990 1.5346 1.5652 1.5925 1.6176 1.6408	460     v     0.01959     1.009     1.094     1.185     1.269     1.348     1.424     1.498       (458.5)     h     439.83     1204.79     1236.9     1271.3     1302.5     1331.8     1360.0     1387.4       s     0.6387     1.4718     1.5060     1.5409     1.5711     1.5982     1.6230     1.6461	440     V     0.01950     1.055     1.152     1.245     1.332     1.414     1.493     1.569       (454.03)     h     434.77     1204.78     1239.7     1273.4     1304.2     1333.2     1361.1     1388.4       s     0.6332     1.4759     1.5132     1.5474     1.5772     1.6040     1.6286     1.6516	(493401) h 429.56 1204.71 1.405 1.568 1.647 1.205.2 1242.4 1275.4 1305.8 (334.5-1362.3) 1389.4 s 0.6276 1.4802 1.4808 1.5206 1.5542 1.5635 10100 16345 1.6574	400 v 0.01934 1.161 1.174 1.284 1.384 1.476 1.565 1.550 1.733 (444.599) h 424.17 1204.59 1208.8 1245.1 1277.5 1307.4 1335.9 1363.4 1390.4 s 0.6217 1.4847 1.4894 1.5282 1.5611 1.5901 1.5163 1.6406 1.6634	380 v 0.01925 1.222 1.247 1.361 1.463 1.560 1.652 1.741 1.828 (439.609) h 418.59 1204.40 1212.4 1247.7 1279.5 1309.0 1337.2 1364.5 1391.3 s 0.6156 1.4894 1.4982 1.5360 1.5683 1.5969 1.6229 1.6470 1.6696	360 v 0.01917 1.289 1.329 1.445 1.552 1.653 1.749 1.842 1.934 (434.411) h 412.81 1204.15 1215.8 1250.3 1281.5 1310.6 1338.5 1365.6 1392.3 s 0.6092 1.4943 1.5073 1.5441 1.5758 1.6040 1.6297 1.6536 1.6762	(431.728) h 409.83 1203.99 1217.5 1251.5 1282.4 1311.4 1339.2 1366.2 1392.8 s 0.6059 1.4968 1.5119 1.5483 1.5797 1.6077 1.6333 1.6571 1.6796
v 0.02028 0.720 0.732 0.810 0.879 0.941 1.000 1.056	v 0.02021 0.744 1.091 0.762 0.841 0.911 0.975 1.035 h 475.84 1203.35 1212.7 1253.3 1288.5 1320.5 1350.6 s 0.6766 1.4428 1.4526 1.4939 1.5279 1.5575 1.5839	(486.202) h 471.70 1203.66 s 0.6723 1.4461 1 1.4590 1.4993 1.5329 1.5621 1.5884 1.6125 1.6351	580 v 0.02006 0.797 0.829 0.910 0.982 1.049 1.112 (482.571) h 467.47 1203.93 1219.1 1258.0 1292.1 1323.4 1353.0 1.4654 1.5049 1.5380 1.5668 1.5929	560 v 0.01998 0.826 0.865 0.948 1.022 1.090 1.155   (478.843) h 463.14 1204.17 1222 1260.3 1293.9 1324.9 1354.2   s 0.6634 1.4529 1.4720 1.5106 1.5431 1.5717 1.5975	540     v     0.01990     0.858     0.905     0.988     1.064     1.134     1.201       (475.012)     h     458.71     1204.37     1226.3     1226.3     1226.5     1295.7     1226.3     1385.3       s     0.6587     1.4565     1.4786     1.5164     1.5485     1.5767     1.6023	520 v 0.01982 0.891 0.947 1.032 1.109 1.182 1.250 (471.07) h 454.18 1204.54 1228.3 1264.8 1297.4 1327.7 1356.5 s 0.6540 1.4601 1.4853 1.5223 1.5539 1.5818 1.6072	500 v 0.01975 0.928 0.992 1.079 1.158 1.233 1.304 (467.01) h 449.52 1204.67 1231 2 1267.0 1299.1 1329.1 1357.7 s 0.6490 1.4639 1.4921 1.5284 1.5895 1.5871 1.6123	480 v 0.01967 0.967 1.041 1.130 1.211 1.288 1.361   (462.823) h 444.75 1204.75 1234.1 1269.1 1300.8 1330.5 1358.8   s 0.6439 1.4677 1.4990 1.5346 1.5652 1.5925 1.6176	460     v     0.01959     1.009     1.094     1.185     1.269     1.348     1.424       (458.5)     h     439.83     1204.79     1236.9     1271.3     1302.5     1331.8     1360.0       s     0.6387     1.4718     1.5060     1.5409     1.5711     1.5882     1.6230	440     V     0.01950     1.055     1.152     1.245     1.332     1.414     1.493     1.569       (454.03)     h     434.77     1204.78     1239.7     1273.4     1304.2     1333.2     1361.1     1388.4     1360.6     1360	(A19.7401) h 429.56 1204.71 1205.2 1242.4 1275.4 1305.8 (334.5 1362.3 1389.4 1205.2 1242.4 1275.4 1205.8 1242.4 1275.4 1205.8 1262.3 12	400 v 0.01934 1.161 1.174 1.284 1.384 1.476 1.565 1.560 (444.599) h 424.17 1204.59 1208.8 1245.1 1277.5 1307.4 1335.9 1363.4 1.4894 1.5282 1.5611 1.5901 1.5163 1.6406	380 v 0.01925 1.222 1.247 1.361 1.463 1.560 1.652 1.741 1.828 (439.609) h 418.59 1204.40 1212.4 1247.7 1279.5 1309.0 1337.2 1364.5 1391.3 s 0.6156 1.4894 1.4982 1.5360 1.5683 1.5969 1.6229 1.6470 1.6696 1.6229 1.6470 1.	360 v 0.01917 1.289 1.329 1.445 1.552 1.653 1.749 1.842 1.934 (434.411) h 412.81 1204.15 1215.8 1250.3 1281.5 1310.6 1338.5 1365.6 1392.3 s 0.6092 1.4943 1.5073 1.5441 1.5758 1.6040 1.6297 1.6536 1.6762	(431.728) h 409.83 1203.99 1217.5 1251.5 1282.4 1311.4 1339.2 1366.2 s 0.6059 1.4968 1.5119 1.5483 1.5797 1.6077 1.6333 1.6571

