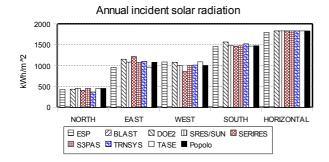
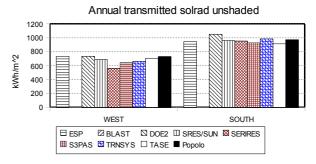
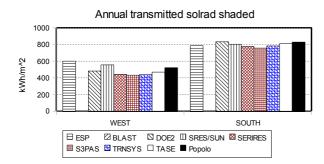
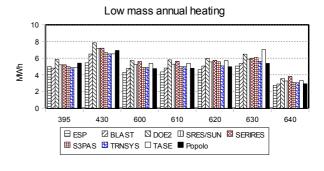
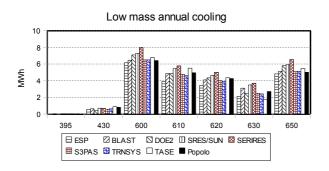
BESTEST Result

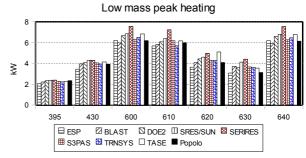


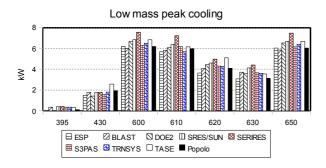


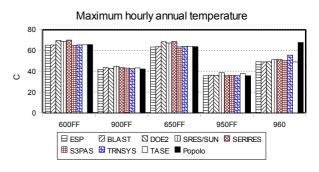


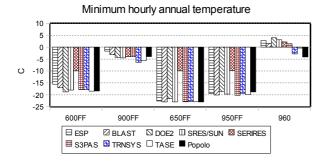


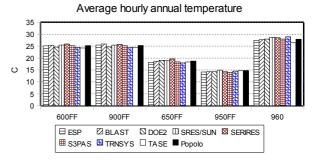


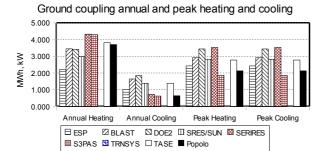


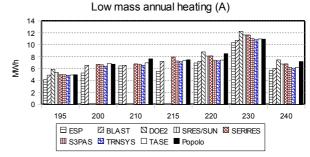


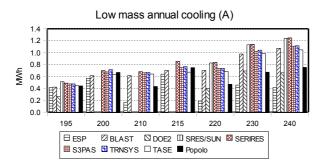


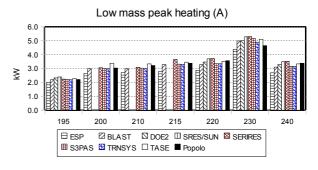


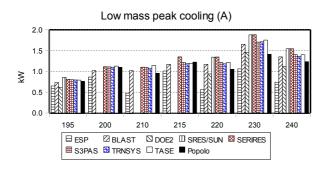


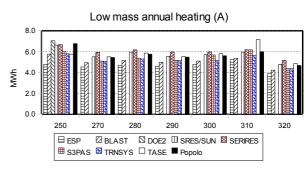


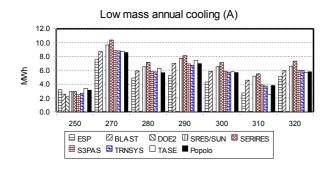


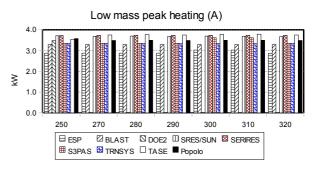


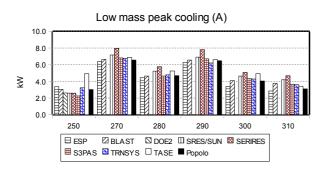


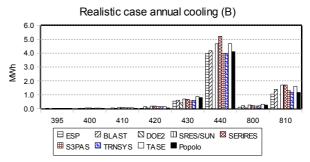


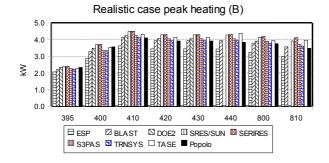


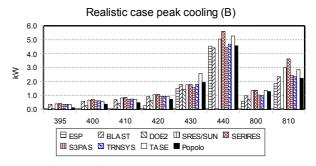


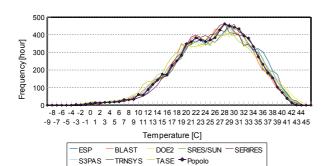












Result

	Absolute	Sensitivity	All
Pass	151	127	278
Fail	4	30	34

ANNUAL INCIDENT SOLAR RADIATION

CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY	UK-DMU	USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)					
NORTH	427.0		434.0	456.0	407.0	457.0	367.0	453.0	455.1	367.000	457.000	428.714	0	-
EAST	959		1155	1083	1217	1082	1101	962	1080.3	959.000	1217.000	1079.857	0	-
WEST	1086		1079	1003	857	1002	1012	1090	1004.2	857.000	1090.000	1018.429	0	-
SOUTH	1456		1566	1476	1468	1474	1522	1468	1477.7	1456.000	1566.000	1490.000	0	-
HORIZONT	1797		1831	1832	1832	1832	1832	1832	1832.6	1797.000	1832.000	1826.857	×	1.8%

ANNUAL TRANSMITTED SOLRAD UNSHADED

CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY:	UK-DMU	USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)					
WEST	732.0		735.0	689.0	563.0	642.0	662.0	706.0	730.9	563.000	735.000	675.571	0	-
SOUTH	946		1051	962	954	926	984	914	973.5	914.000	1051.000	962.429	0	_

ANNUAL TRANSMITTED SOLRAD SHADED

CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY:	UK-DMU	USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)					
WEST	599.0		481.0	554.0	441.0	431.0	438.0	469.0	521.0	431.000	599.000	487.571	0	-
SOUTH	785		831	803	775	757	782	809	828.9	757.000	831.000	791.714	0	-

ANNUAL TRANSMISSIVITY COEFFICIENT OF WINDOWS

(UNSHADED TRANSMITTED)/(INCIDENT SOLRAD)

CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average
COUNTRY:	UK-DMU	USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX	
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)			
NORTH	0.674		0.681	0.687	0.657	0.641	0.654	0.648	0.728	0.641	0.687	0.663
EAST	0.650		0.671	0.652	0.650	0.628	0.647	0.623	0.659	0.623	0.671	0.646

ANNUAL OVERHANG AND FIN SHADING COEFFICIENTS

(1-(SHADED)/(UNSHADED)) TRANSMITTED SOLRAD

(. (0. ::	2), (0.10	,		002.0.0								
CODENAN	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	UK-DMU	USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX	
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)			
NORTH	0.182		0.346	0.196	0.217	0.329	0.338	0.336	0.287	0.182	0.346	0.278
EAST	0.170		0.209	0.165	0.188	0.183	0.205	0.115	0.149	0.115	0.209	0.176

ANNUAL LOADS

ANNUAL L	LOADS													
ANNUAL F	HEATING [M'	WH]												
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASE	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
600	4.296	4.773	5.709	5.226	5.596	4.882	4.872	5.362	4.740	4.296	5.709	5.090	0	_
610	4.355	4.806	5.786	5.280	5.620	4.971	4.970		4.775	4.355	5.786	5.146	0	-
620	4.613	5.049	5.944	5.554	5.734	5.564	5.073			4.613	5.944	5.407	0	_
630	5.050	5.359	6.469	5.883	6.001	6.095	5.624	7.018		5.050	6.469	5.937	0	-
640	2.751		3.543			3.065	3.043				3.803			
650		2.888		3.255	3.803				2.928	2.751	3.603	3.207	0	-
	0.000	0.000	0.000	0.000	0.000	0.000	0.000							
900	1.170	1.610	1.872	1.897	1.988	1.730	1.655		1.545	1.170	2.041	1.745	0	-
910	1.575	1.862	2.254	2.174	2.282	2.063	2.097	2.220	1.769	1.575	2.282	2.066	0	-
920	3.313	3.752	4.255	4.093	4.058	4.235	3.776	4.300	3.573	3.313	4.300	3.973	0	-
930	4.143	4.347	5.335	4.755	4.728	5.168	4.740	6.306	4.373	4.143	5.335	4.940	0	-
940	0.793	1.021	1.239	1.231	1.411	1.179	1.080		1.026	0.793	1.411	1.160	0	-
950	0.000	0.000	0.000	0.000	0.000	0.000	0.000							
960	2.311	2.664	2.928	2.884	2.851	2.943	3.373		2.590	2.311	3.373	2.846	0	_
990	2.222	3.448	3.425	2.972	4.324	4.301	0.070	3.813	3.701	2.222	4.324	3.501	0	-
195	4.167	4.895	5.871		4.968	4.973	4.871	4.921	4.966	4.167	5.871	4.999		-
			5.671	5.324									0	-
200	5.252	6.559			6.683	6.636			6.747	5.252	6.882	6.401	0	-
210	6.456	6.559			6.794	6.735	6.554	6.967	7.640	6.456	6.967	6.678	×	131.6%
215	5.547	7.215			7.943	7.281	7.130			5.547	7.943	7.073	0	-
220	6.944	7.215	8.787	8.102	8.127	7.422	7.297	7.437	8.502	6.944	8.787	7.666	0	-
230	10.376	10.740	12.243	11.633	11.649	11.037	10.840		10.951	10.376	12.243	11.185	0	-
240	5.649	6.009	7.448	6.769	6.786	6.194	6.076	6.234	7.184	5.649	7.448	6.396	0	-
250	4.751	5.739	7.024	6.608	6.653	5.974	5.764	5.738		4.751	7.024	6.031	0	-
270	4.510	4.930		5.482	5.920	5.072	5.047	5.489	5.423	4.510	5.920	5.207	0	-
280	4.675	5.125		5.937	6.148	5.363	5.279		5.742	4.675	6.148	5.481	0	_
290	4.577	4.959		5.539	5.942	5.160	5.132		5.463	4.577	5.942	5.260	0	-
300	4.761	5.077		5.689	5.964	5.662	5.132			4.761	5.964	5.438	0	-
310	5.221									5.221			0	
		5.327		5.937	6.165	6.154	5.610				7.135	5.936		-
320	3.859	4.209		4.764	5.141	4.343	4.348		4.655	3.859	5.141	4.501	0	-
395	4.984	4.799	5.835	5.199	5.201	4.967	4.855		5.401	4.799	5.835	5.085	0	-
400	6.900	7.075	8.770	7.966	7.973	7.287	7.166		8.381	6.900	8.770	7.558	0	-
410	8.596	8.873	10.506	9.726	9.734	9.019	8.936	9.085	9.599	8.596	10.506	9.309	0	-
420	7.298	7.610	9.151	8.365	8.373	7.774	7.697	7.863	8.266	7.298	9.151	8.016	0	-
430	5.429	6.488	7.827	7.178	7.186	6.662	6.500	6.510	6.923	5.429	7.827	6.723	0	-
440	4.449	4.987	-	5.652	5.811	5.152	5.098			4.449	5.811	5.256	0	-
800	4.868	5.953	7.228	6.611	6.600	6.161	5.940		6.365	4.868	7.228	6.153	0	_
810	1.839	2.446	7.220	3.004	2.828	2.722		2.962		1.839	3.004	2.624	0	-
ANNUAL C				0.004	2.020	2.122	2.001	2.502	2.000	1.000	0.00-	2.024		_
		\ \ /\L1												
ANNOAL			DOE2	CDEC/CLIN	CEDIDEC	CODAC	TDNEVE	TACE	Donala	DANCE	DANCE	Average	Page	Error Poto
	ESP	BLAST		SRES/SUN		S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASE#	ESP UK-DMU	BLAST US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND	·	MIN	MAX			
CASE#	ESP UK-DMU 6.137	BLAST US/IT 6.433	USA 7.079	USA 7.278	UK-BRE 7.964	SPAIN 6.492	BEL/UK 6.492	FINLAND 6.778	6.411	MIN 6.137	MAX 7.964	6.832	0	Error Rate
CASE# 600 610	ESP UK-DMU 6.137 3.915	BLAST US/IT 6.433 4.851	USA 7.079 4.852	USA 7.278 5.448	UK-BRE 7.964 5.778	SPAIN 6.492 4.764	BEL/UK 6.492 4.601	FINLAND 6.778 5.506	6.411 4.934	MIN 6.137 3.915	MAX 7.964 5.778	6.832 4.964	0	
CASE# 600 610 620	ESP UK-DMU 6.137 3.915 3.417	BLAST US/IT 6.433	USA 7.079 4.852 4.334	USA 7.278	UK-BRE 7.964	SPAIN 6.492	BEL/UK 6.492	FINLAND 6.778 5.506 4.351	6.411	MIN 6.137 3.915 3.417	MAX 7.964	6.832 4.964 4.218	0	-
CASE# 600 610 620 630	ESP UK-DMU 6.137 3.915	BLAST US/IT 6.433 4.851	USA 7.079 4.852	USA 7.278 5.448	UK-BRE 7.964 5.778	SPAIN 6.492 4.764	BEL/UK 6.492 4.601	6.778 5.506 4.351	6.411 4.934	MIN 6.137 3.915	MAX 7.964 5.778	6.832 4.964	0	-
CASE# 600 610 620	ESP UK-DMU 6.137 3.915 3.417	BLAST US/IT 6.433 4.851 4.092	USA 7.079 4.852 4.334	USA 7.278 5.448 4.633	UK-BRE 7.964 5.778 5.004	SPAIN 6.492 4.764 4.011	BEL/UK 6.492 4.601 3.901	FINLAND 6.778 5.506 4.351 1.721	6.411 4.934 4.257 2.703	MIN 6.137 3.915 3.417	MAX 7.964 5.778 5.004	6.832 4.964 4.218	0 0	-
CASE# 600 610 620 630	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952	BLAST US/IT 6.433 4.851 4.092 3.108 6.183	USA 7.079 4.852 4.334 2.489 6.759	USA 7.278 5.448 4.633 3.493 7.026	UK-BRE 7.964 5.778 5.004 3.701 7.811	SPAIN 6.492 4.764 4.011 2.489 6.247	BEL/UK 6.492 4.601 3.901 2.416 6.246	FINLAND 6.778 5.506 4.351 1.721 6.508	6.411 4.934 4.257 2.703 6.126	MIN 6.137 3.915 3.417 2.129 5.952	MAX 7.964 5.778 5.004 3.701 7.811	6.832 4.964 4.218 2.693 6.592	0 0 0	
CASE# 600 610 620 630 640 650	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140	USA 7.079 4.852 4.334 2.489 6.759 5.795	USA 7.278 5.448 4.633 3.493 7.026 5.894	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456	6.411 4.934 4.257 2.703 6.126 4.987	MIN 6.137 3.915 3.417 2.129 5.952 4.816	MAX 7.964 5.778 5.004 3.701 7.811 6.545	6.832 4.964 4.218 2.693 6.592 5.482	0 0 0 0 0 0 0	
CASE# 600 610 620 630 640 650 900	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599	6.411 4.934 4.257 2.703 6.126 4.987 2.431	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415	6.832 4.964 4.218 2.693 6.592 5.482 2.678	0 0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447	0 0 0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900 910	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552	0 0 0 0 0 0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900 910 920 930	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552	0 0 0 0 0 0 0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900 910 920 930 940	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 1.854 3.092 2.238 3.241	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950	ESP UK-DMU 6.137 3.915 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538	USA 7.278 5.448 4.633 3.493 7.026 5.894 5.1872 2.943 2.173 3.036 0.921	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 1.854 3.092 2.238 3.241 0.589	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803	6.832 4.964 4.218 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618	0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 0.561 0.411	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 0.771 0.786	6.411 4.934 4.257 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618		-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 3.492 2.238 3.241 0.589 0.718 0.714 0.488	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 2.418 1.416 2.383 0.561 0.411	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436		-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 0.561 0.411	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 0.443 0.633	6.411 4.934 4.257 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618		-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 4.3.092 2.238 3.241 0.589 0.718 0.714 0.488	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 2.418 1.416 2.383 0.561 0.411	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 0.443 0.633	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436		-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.714 0.488 0.699	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643 0.616 0.474	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618	0 0 0 0 0 0 0 0 0 0	-
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195 200 210	ESP UK-DMU 6.137 3.915 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.613	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 3.036 0.921 0.803 1.387 0.510	UK-BRE 7.964 5.778 5.004 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718 0.714 0.488 0.699 0.681 0.853	SPAIN 6.492 4.764 4.011 2.499 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643 0.616 0.474 0.677	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.634	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.571		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195 200 210 215	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.613 0.701	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 0.718 0.714 0.488 0.699 0.681 0.853	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737	FINLAND 6.778 5.506 4.351 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 0.530 0.636 0.442 0.668 0.432 0.747 0.468	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 0.397 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.571 0.730		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195 200 210 215 220 230	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.613 0.701 0.701	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 5.448 4.633 3.493 7.026 5.894 3.165 2.943 2.173 3.036 0.921 0.803 0.510	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 3.415 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.442 0.747 0.468 0.673	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.730 0.638		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195 200 2110 215 220 230 240	ESP UK-DMU 6.137 3.915 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.613 0.701 0.701 0.976	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.714 0.488 0.699 0.681 0.853 0.835 1.139	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.489 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 0.633 0.641 0.671 0.683 0.985	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.6673	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.730 0.638 0.930		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 210 215 220 230 240 250	ESP UK-DMU 6.137 3.915 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.451 3.213	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 0.666 0.421 0.613 0.701 0.701 0.701	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643 0.616 0.749 0.734 1.020 1.1088 2.486	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.985 1.045	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.454	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.730 0.638 0.930		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195 200 210 215 220 230 240 250 270	ESP UK-DMU 6.137 3.915 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.666 1.640 0.421 0.613 0.701 0.701 0.976 1.072 2.545 8.670	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350	SPAIN 6.492 4.764 4.011 2.4899 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643 0.616 0.749 0.734 1.020 1.108 2.486 8.795	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.675 2.3132	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.457 0.415 2.177 7.528	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.730 0.638 0.930 0.930		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 195 200 211 2215 220 230 240 250 270 280	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 4.415 0.454 0.415 0.454 0.415 0.454	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.701 0.701 0.976 1.072 2.545 8.670 5.895	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 6.511	UK-BRE 7.964 5.778 5.004 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350 7.114	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.489 2.489 5.805	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 5.643	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.987 2.793 8.922 6.031		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 200 210 215 220 230 240 250 270 280 290	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 3.213 3.213 3.213 3.213 5.204	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.976 1.072 2.545 8.670 5.895 7.011	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 7.721	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 4.3.092 2.238 3.241 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 1.350 7.114 8.089	SPAIN 6.492 4.764 4.011 2.499 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.442 0.747 0.468 0.673 0.752 3.132 8.544 5.643 6.945	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 210 215 220 230 240 250 270 280 290 300	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 0.526 0.666 1.640 0.421 0.613 0.613 0.701 0.701 0.976 1.072 2.5345 8.670 5.895 7.011 5.836	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718 0.718 0.488 0.699 0.681 0.853 1.139 1.246 2.931 10.350 7.114 8.089 7.100	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.489 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.486 8.795 5.803 5.849	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 5.643 6.945	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 1.139 1.246 3.380 10.350 7.114 8.089 7.100	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008 5.873		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 215 220 221 230 240 250 270 280 290 300 310	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 3.213 3.213 3.213 3.213 5.204	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.976 1.072 2.545 8.670 5.895 7.011	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 7.721	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718 0.718 0.488 0.699 0.681 0.853 1.139 1.246 2.931 10.350 7.114 8.089 7.100	SPAIN 6.492 4.764 4.011 2.499 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.442 0.747 0.468 0.673 0.752 3.132 8.544 5.643 6.945	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 210 215 220 230 240 250 270 280 290 300	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 0.526 0.666 1.640 0.421 0.613 0.613 0.701 0.976 1.072 2.5345 8.670 5.895 7.011 5.836	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350 7.114 8.089 7.100 5.471	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.489 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.486 8.795 5.803 5.849	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 5.643 5.644 5.644 5.664 3.799	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 1.139 1.246 3.380 10.350 7.114 8.089 7.100	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008 5.873		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 215 220 221 230 240 250 270 280 290 300 310	ESP UK-DMU 6.137 3.915 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 5.061	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.701 0.701 0.976 1.072 2.545 8.670 5.895 7.011 5.836 4.570 5.906	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525 5.136 6.576	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.241 0.589 0.718 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350 7.114 8.089 5.471 7.304	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.489 0.551 0.643 0.616 0.774 0.667 0.734 1.020 1.108 2.486 8.795 5.805 6.903 5.849 3.875	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727 5.956	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781 2.471 5.663	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 5.643 6.945 5.664 3.799 5.748	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302 2.471 5.061	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.930 0.937 2.793 8.922 6.031 7.008 5.873 3.997 6.054		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 210 215 220 230 240 250 270 280 290 300 310 320 395	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 5.061	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.701 0.701 0.976 1.072 2.545 5.895 7.011 5.836 4.570 5.906 0.011	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264 0.399 0.692 0.660 2.177	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525 5.136 6.576 0.016	UK-BRE 7.964 5.778 5.004 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350 7.114 8.089 7.100 5.471 7.304 0.014	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.469 0.551 0.643 0.616 0.474 0.677 0.661 1.1020 1.1020 1.108 8.795 5.805 6.903 5.849 3.8755 5.914	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 4.114 2.684 8.764 5.761 6.699 5.721 5.956 0.010	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 3.380 8.714 6.257 7.431 5.781 5.663 0.011	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 3.132 8.544 5.643 6.945 5.664 3.799 5.748	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304 0.016	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008 5.873 3.997 6.054 0.054		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 210 215 220 230 240 250 270 280 290 300 310 320 395 400	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 5.061 0.000	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.976 1.072 2.545 5.895 7.011 5.836 4.570 5.906 0.011	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 7.721 6.525 5.136 6.576 0.016	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 3.415 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350 7.114 8.089 7.100 5.471 7.304 0.014 0.058	SPAIN 6.492 4.764 4.011 2.499 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903 5.849 3.875 5.914 0.010	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727 5.956 0.010	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781 2.471 0.641	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.746 8.673 0.752 3.132 5.643 6.945 5.664 3.799 5.748 0.000	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304 0.016	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008 5.873 3.997 6.054 0.009		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 5.061 0.000 0.000	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.976 1.072 2.545 8.670 5.895 7.011 5.836 4.570 5.906 0.011 0.040	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264 0.399 0.692 0.660 2.177	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 7.721 6.525 5.136 6.576 0.016 0.061 0.084	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.718 0.714 0.488 0.699 0.681 0.853 1.139 1.246 2.931 10.350 7.104 8.089 7.100 5.471 7.304 0.014 0.058	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.489 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903 5.849 3.875 5.914 0.010 0.042	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 4.8.764 6.699 5.721 3.727 5.956 0.010 0.045 0.067	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 0.443 0.633 0.641 0.671 1.045 3.380 8.714 6.257 7.431 5.781 2.471 5.663 0.011 0.044 0.065	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 6.945 5.664 3.799 5.748 0.000 0.000	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000 0.000	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 1.139 1.246 3.380 10.350 1.350 7.114 8.089 7.100 5.471 7.304 0.016 0.061	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.618 0.651 0.571 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008 5.873 3.997 6.054		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410 420	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 5.061 0.000 0.000 0.000	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.976 1.072 2.545 8.670 5.895 7.011 5.836 4.570 5.906 0.011 0.040 0.059 0.147	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264 0.399 0.692 0.660 2.177	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525 5.136 6.576 0.016 0.084 0.189	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 3.092 2.238 3.241 0.589 0.714 0.488 0.699 0.681 0.853 1.139 1.246 2.931 10.350 7.114 8.089 7.100 5.471 7.304 0.014 0.058 0.084	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.489 0.551 0.643 0.616 0.7749 0.734 1.020 1.108 2.486 8.795 5.805 6.903 5.849 3.875 5.914 0.010 0.043	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727 5.956 0.010 0.045 0.067 0.158	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781 2.471 5.663 0.011 0.044 0.065 0.143	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 5.643 5.643 5.644 5.644 5.644 5.664 0.000 0.004 0.004	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000 0.000 0.000	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304 0.016 0.061 0.084 0.189	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 0.651 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008 5.873 3.997 6.054 0.0054 0.036 0.036		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195 200 211 215 220 230 240 250 270 280 290 300 310 310 320 395 400 410 410 420 430	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 0.454 0.415 3.213 7.528 4.873 7.528 4.873 5.204 4.302 2.732 5.061 0.000 0.000 0.001 0.011 0.542	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.701 0.701 0.701 5.895 5.895 7.011 5.836 4.570 5.906 0.011 0.040 0.059 0.147 0.617	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264 0.399 0.692 0.660 2.177	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525 5.136 6.576 0.016 0.061 0.084 0.189 0.704	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.854 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350 7.114 8.089 7.100 5.471 7.304 0.014 0.058 0.084 0.188	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643 0.616 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903 3.875 5.914 0.010 0.042 0.063 0.154	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727 5.956 0.010 0.045 0.067 0.158	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 3.380 8.714 6.257 7.431 5.663 0.011 0.044 0.065 0.143 0.875	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 5.643 6.945 5.664 3.799 5.748 0.000 0.004 0.001	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000 0.000 0.000 0.011 0.422	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304 0.016 0.061 0.084 0.189 0.875	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.930 2.793 8.922 6.031 7.008 5.873 3.997 6.054 0.009 0.036 0.054 0.054 0.130		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410 420 430 440	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 5.061 0.000 0.000 0.000 0.001 0.011 0.542 3.967	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.7701 0.976 1.072 2.545 5.895 7.011 5.836 4.570 5.996 0.011 0.040 0.059 0.147 0.617 4.172	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264 0.399 0.692 0.660 2.177	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525 5.136 6.576 0.016 0.084 0.189 0.704 4.674	UK-BRE 7.964 5.778 5.004 6.545 3.415 1.854 3.415 0.589 0.718 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 10.350 7.114 8.089 7.100 5.471 7.304 0.014 0.058 0.084 0.684 5.204	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643 0.616 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903 5.849 3.875 5.914 0.010 0.042 0.063 0.0563 3.992	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727 5.956 0.010 0.045 0.067 0.158 0.617 3.975	FINLAND 6.778 5.506 4.351 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781 5.663 0.011 0.044 0.065 0.143 0.875 4.684	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 0.532 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 8.544 5.643 6.945 5.664 3.799 5.748 0.000 0.004 0.001 0.005 0.801	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.455 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000 0.000 0.000 0.000 0.000 0.001 0.422 3.967	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304 0.016 0.061 0.084 0.189 0.875 5.204	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.930 5.873 3.997 6.054 0.009 0.036 0.054 0.009		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410 420 430 440 800	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 2.732 2.732 3.967 0.000 0.000 0.000 0.001 0.542 3.967 0.113	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.976 1.072 2.545 5.895 7.011 5.836 4.570 5.906 0.011 0.040 0.059 0.147 0.617 4.172	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264 0.399 0.692 0.660 2.177	USA 7.278 5.448 4.633 3.493 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 7.721 6.525 5.136 6.576 0.016 0.061 0.084 0.189 0.704 4.674 0.272	UK-BRE 7.964 5.778 5.004 3.701 7.811 6.545 3.415 3.415 0.589 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 1.246 2.931 10.350 7.114 8.089 7.100 5.471 7.304 0.014 0.058 0.084 0.188 6.684 5.204 0.222	SPAIN 6.492 4.764 4.011 2.499 6.247 5.088 2.572 1.428 2.457 1.439 0.551 0.643 0.616 0.474 0.677 0.661 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903 5.849 3.875 5.914 0.010 0.042 0.063 0.154 0.053	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 1.416 2.383 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727 5.956 0.010 0.045 0.067 0.158 0.617 3.975 0.207	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781 2.471 0.044 0.065 0.143 0.875 4.684 0.325	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 6.945 5.664 3.799 5.748 0.000 0.004 0.011 0.055 0.801 4.109 0.270	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.415 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.422 3.967 0.055	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 3.092 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304 0.016 0.061 0.084 0.189 0.875 5.204 0.325	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 2.578 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.987 2.793 8.922 6.031 7.008 5.873 3.997 6.054 0.009 0.036 0.054 0.130 0.628 4.381		
CASE# 600 610 620 630 640 650 900 910 920 930 940 950 960 990 195 200 2115 220 230 240 250 270 280 290 300 310 320 395 400 410 420 430 440	ESP UK-DMU 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.488 1.001 0.414 0.570 0.162 0.639 0.186 0.454 0.415 3.213 7.528 4.873 5.204 4.302 2.732 5.061 0.000 0.000 0.000 0.001 0.011 0.542 3.967	BLAST US/IT 6.433 4.851 4.092 3.108 6.183 5.140 2.600 1.533 2.616 1.934 2.536 0.526 0.666 1.640 0.421 0.613 0.701 0.701 0.7701 0.976 1.072 2.545 5.895 7.011 5.836 4.570 5.996 0.011 0.040 0.059 0.147 0.617 4.172	USA 7.079 4.852 4.334 2.489 6.759 5.795 2.455 0.976 2.440 1.266 2.340 0.538 0.428 1.841 0.264 0.399 0.692 0.660 2.177	USA 7.278 5.448 4.633 7.026 5.894 3.165 1.872 2.943 2.173 3.036 0.921 0.803 1.387 0.510 0.827 1.131 1.239 2.924 9.631 6.511 7.721 6.525 5.136 6.576 0.016 0.084 0.189 0.704 4.674	UK-BRE 7.964 5.778 5.004 6.545 3.415 1.854 3.415 0.589 0.718 0.718 0.714 0.488 0.699 0.681 0.853 0.835 1.139 10.350 7.114 8.089 7.100 5.471 7.304 0.014 0.058 0.084 0.684 5.204	SPAIN 6.492 4.764 4.011 2.489 6.247 5.088 2.572 1.428 2.457 1.439 2.489 0.551 0.643 0.616 0.749 0.734 1.020 1.108 2.486 8.795 5.805 6.903 5.849 3.875 5.914 0.010 0.042 0.063 0.0563 3.992	BEL/UK 6.492 4.601 3.901 2.416 6.246 5.119 2.485 1.326 2.418 0.561 0.411 0.474 0.716 0.668 0.765 0.737 1.040 1.114 2.684 8.764 5.761 6.699 5.721 3.727 5.956 0.010 0.045 0.067 0.158 0.617 3.975	FINLAND 6.778 5.506 4.351 1.721 6.508 5.456 2.599 1.767 2.613 0.894 2.516 0.771 0.786 1.388 0.443 0.633 0.641 0.671 0.683 0.985 1.045 3.380 8.714 6.257 7.431 5.781 2.471 0.044 0.065 0.143 0.875 4.684 0.325	6.411 4.934 4.257 2.703 6.126 4.987 2.431 1.425 2.634 1.560 2.332 0.522 0.530 0.636 0.442 0.668 0.432 0.747 0.468 0.673 0.752 3.132 6.945 5.664 3.799 5.748 0.000 0.004 0.011 0.055 0.801 4.109 0.270	MIN 6.137 3.915 3.417 2.129 5.952 4.816 2.132 0.821 1.840 1.039 2.079 0.387 0.411 0.616 0.264 0.570 0.162 0.639 0.186 0.454 0.455 2.177 7.528 4.873 5.204 4.302 2.471 5.061 0.000 0.000 0.000 0.000 0.000 0.001 0.422 3.967	MAX 7.964 5.778 5.004 3.701 7.811 6.545 3.415 1.872 2.238 3.241 0.921 0.803 1.841 0.510 0.716 0.681 0.853 0.835 1.139 1.246 3.380 10.350 7.114 8.089 7.100 5.471 7.304 0.016 0.061 0.084 0.189 0.875 5.204	6.832 4.964 4.218 2.693 6.592 5.482 2.678 1.447 2.552 1.550 0.605 0.618 1.227 0.436 0.651 0.571 0.730 0.638 0.930 0.930 5.873 3.997 6.054 0.009 0.036 0.054 0.009		

ANNUAL HO	URLY IN	TEGRATED	PEAK HE	ATING LOADS
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CODENAM		BLAST		ATING LOA SRES/SUN		S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY		USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND	горою	MIN	MAX	Average	газэ	Elloi Nate
CASE#	KW	KW	KW		KW	KW	KW	KW	KW	KW				
600	3.437	3.940	4.045	4.258	4.307	4.037	3.931	4.354	3.831	3.437	4.354	4.039	0	-
610	3.437	3.941	4.034	4.258	4.306	4.037	3.922	4.354	3.831	3.437	4.354	4.036	0	-
620	3.591	3.941	4.046	4.277	4.306	4.277	3.922	4.379	3.837	3.591	4.379	4.092	0	-
630	3.592	3.941	4.025	4.280		4.278		4.379	3.837	3.592	4.278	4.090	0	-
640	5.232	5.486	5.943	6.530	8.078	6.347	5.722	6.954	5.915	5.232	6.954	6.287	0	-
650 900	0.000	0.000	0.000	0.000		0.000		0.000	2.204	2.050	2 707	2 570		
910	2.850 2.858	3.453 3.456	3.557 3.564	3.760 3.764	4.081 4.083	3.608 3.618	3.517 3.536	3.797 3.801	3.384	2.850 2.858	3.797 3.801	3.578 3.585	0	-
920	3.308	3.703	3.805			4.029		4.061	3.590	3.308	4.061	3.848	0	-
930	3.355	3.732	3.832	4.042	4.165	4.064		4.188	3.617	3.355	4.064	3.890	0	_
940	3.980	5.028	5.665	6.116		6.117	5.122	6.428	5.708	3.980	6.428	6.047	0	_
950	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000						
960	2.410	2.751	2.727	2.863	2.896	2.852	2.522	2.779	2.643	2.410	2.896	2.725	0	-
990	2.769	3.734	3.427	3.681	3.738	3.799		4.296	3.103	2.769	4.296	3.635	0	-
195	2.004	2.186	2.320	2.385		2.221	2.186	2.263	2.209	2.004	2.385	2.225	0	-
200	2.651	2.973			3.047	2.999	2.969	3.382	3.035	2.651	3.382	3.004	0	-
210	2.701	2.973			3.077	3.020	2.981	3.325	3.212	2.701	3.325	3.013	0	-
215 220	2.787	3.280	0.405	0.005	3.650	3.307	3.294	3.458	3.373	2.787	3.650	3.296	0	-
230	2.867	3.280	3.465	3.695	3.709	3.348		3.520	3.562	2.867	3.709	3.403	0	-
240	4.386 2.685	4.984 3.100	4.994 3.282	5.279 3.495		5.159 3.159		5.107 3.333	4.643 3.379	4.386 2.685	5.293 3.509	5.012 3.214	0	-
250	2.866	3.100	3.465	3.495		3.159	3.153	3.525	3.561	2.866	3.709	3.402	0	-
270	2.863	3.277	5.700	3.670	3.714	3.340	3.336	3.738	3.476	2.863	3.738	3.420	0	-
280	2.864	3.278		3.685	3.714	3.341	3.336	3.759	3.478	2.864	3.759	3.425	0	-
290	2.863	3.277		3.670	3.714	3.340	3.328	3.738	3.476	2.863	3.738	3.419	0	-
300	3.014	3.276		3.685	3.714	3.599	3.328	3.770	3.479	3.014	3.770	3.484	0	-
310	3.015	3.277		3.672	3.714	3.599	3.328	3.771	3.480	3.015	3.771	3.482	0	-
320	2.861	3.275		3.661	3.714	3.340	3.336	3.735	3.472	2.861	3.735	3.417	0	-
395	2.062	2.209	2.328	2.385		2.263	2.221	2.270	2.337	2.062	2.391	2.266	0	-
400	2.867	3.280	3.476			3.342	3.336	3.520	3.562	2.867	3.709	3.403	0	-
410	3.625	4.124	4.233	4.487	4.501	4.227	4.114	4.314	4.103	3.625	4.501	4.203	0	-
420 430	3.443	3.944	4.050 4.050	4.287	4.301	4.044	3.931	4.126	3.920	3.443	4.301	4.016 4.017	0	-
440	3.442 3.439	3.944 3.942	4.050	4.287 4.277	4.301 4.306	4.044 4.041	3.931 3.931	4.137 4.376	3.920 3.836	3.442 3.439	4.301 4.376	4.017	0	-
800	3.227	3.793	3.909	4.138		3.902		3.939	3.758	3.227	4.188	3.860	0	_
810	2.979	3.566	0.000	3.915		3.709		3.963	3.476	2.979	4.115		0	_
		EGRATED	PEAK CO				0.000							
CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY		USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
CASE#	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW			
600	6.194	5.965	6.656	6.827	7.551	6.286		6.812	6.184	5.965	6.812	6.597	0	-
610 620														
630	5.669	5.824	6.064	6.371	7.215	6.170	5.675	6.146	5.957	5.669	6.146	6.142	0	-
	3.634	4.075	4.430	4.593	4.959	4.297	4.275	5.096	4.075	3.634	5.096	6.142 4.420	0	-
	3.634 3.072	4.075 3.704	4.430 3.588	4.593 4.116	4.959 4.400	4.297 3.665	4.275 3.608	5.096 3.546	4.075 3.121	3.634 3.072	5.096 3.704	6.142 4.420 3.712	0	-
640	3.634 3.072 6.161	4.075 3.704 5.892	4.430 3.588 6.576	4.593 4.116 6.776	4.959 4.400 7.537	4.297 3.665 6.250	4.275 3.608 6.442	5.096 3.546 6.771	4.075 3.121 6.125	3.634 3.072 5.892	5.096 3.704 7.537	6.142 4.420 3.712 6.551	0 0	
	3.634 3.072	4.075 3.704	4.430 3.588 6.576 6.516	4.593 4.116 6.776 6.671	4.959 4.400	4.297 3.665	4.275 3.608 6.442 6.378	5.096 3.546	4.075 3.121 6.125 6.019	3.634 3.072	5.096 3.704 7.537 6.679	6.142 4.420 3.712 6.551 6.463	0	-
640 650	3.634 3.072 6.161 6.031	4.075 3.704 5.892 5.831	4.430 3.588 6.576	4.593 4.116 6.776	4.959 4.400 7.537 7.458	4.297 3.665 6.250 6.143	4.275 3.608 6.442 6.378 3.567	5.096 3.546 6.771 6.679	4.075 3.121 6.125	3.634 3.072 5.892 5.831	5.096 3.704 7.537	6.142 4.420 3.712 6.551	0 0 0	-
640 650 900 910 920	3.634 3.072 6.161 6.031 2.888 1.896 2.385	4.075 3.704 5.892 5.831 3.155 2.500 2.933	4.430 3.588 6.576 6.516 3.458 2.336 3.109	4.593 4.116 6.776 6.671 3.871 3.277 3.487	4.959 4.400 7.537 7.458 4.901 3.973 3.777	4.297 3.665 6.250 6.143 3.334 2.786 3.071	4.275 3.608 6.442 6.378 3.567 2.792 3.050	5.096 3.546 6.771 6.679 3.457 3.147 3.505	4.075 3.121 6.125 6.019 3.298 2.757 3.006	3.634 3.072 5.892 5.831 2.888 1.896 2.385	5.096 3.704 7.537 6.679 3.567 3.147 3.505	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165	0 0 0 0 0 0 0	- - -
640 650 900 910 920 930	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547	0 0 0 0 0 0 0 0 0 0	
640 650 900 910 920 930 940	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579	0 0 0 0 0	
640 650 900 910 920 930 940 950	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821	0 0 0 0 0 0	-
640 650 900 910 920 930 940 950 960	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
640 650 900 910 920 930 940 950 960	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436	4.593 4.116 6.776 6.671 3.871 3.277 3.080 3.871 3.170 1.370 2.819	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
640 650 900 910 920 930 940 950 960 990	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057	4.593 4.116 6.776 6.671 3.871 3.277 3.080 3.871 3.170 1.370 2.819	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859	4.275 3.608 6.442 6.378 3.567 2.792 3.050 3.498 3.567 2.686 1.378	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758	3.634 3.072 5.892 5.831 2.888 1.896 2.385 2.888 2.033 0.953 1.859 0.616	5.096 3.704 7.537 6.679 3.567 3.147 3.505 4.901 2.867 1.403 3.525 0.853	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754		-
640 650 900 910 920 930 940 950 960	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436	4.593 4.116 6.776 6.671 3.871 3.277 3.080 3.871 3.170 1.370 2.819	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 0.799	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-
640 650 900 910 920 930 940 950 960 990 195 200	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436	4.593 4.116 6.776 6.671 3.871 3.277 3.080 3.871 3.170 1.370 2.819	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093	3.634 3.072 5.892 5.831 2.888 1.896 2.385 2.888 2.033 0.953 1.859 0.616	5.096 3.704 7.537 6.679 3.567 3.147 3.505 4.901 2.867 1.403 3.525 0.853	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754		-
640 650 900 910 920 930 940 950 960 990 195 200 210 215	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436	4.593 4.116 6.776 6.671 3.871 3.277 3.080 3.871 3.170 1.370 2.819	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.297	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184	5.096 3.546 6.771 6.679 3.457 3.505 2.304 3.457 2.867 1.403 2.779 0.790 1.126	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054		-
640 650 900 910 920 930 940 950 960 990 195 200 215 220 230	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 0.560 1.007	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.016 1.166 1.166	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 1.370 2.819 0.853	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.215 1.216	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 1.403 2.779 0.790 1.126 1.142 1.192 1.213	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863 0.476 0.560 1.059	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119		
640 650 900 910 920 930 940 950 960 990 195 200 210 215 220 230 240	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 1.007 0.560 1.059	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.166 1.166 1.646	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.105 1.097 1.216 1.215 1.700	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863 0.476 1.007 0.560 1.059	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119		
640 650 900 910 920 930 940 950 960 990 195 200 210 215 220 230 240 250	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 1.007 0.560 0.739 3.360	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.166 1.166 1.646 1.347 3.036	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582	4.297 3.665 6.250 6.143 3.334 2.786 3.371 2.486 3.334 2.677 1.179 1.105 1.097 1.216 1.215 1.700 1.398 2.258	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863 0.476 1.007 0.560 0.739 2.258	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878 1.542 4.912	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119 1.634 1.305 3.071		
640 650 900 910 920 930 940 950 960 990 1195 200 210 215 220 230 240 250 270	3.634 3.072 6.161 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.476 1.007 0.560 1.059 0.739 3.360 6.356	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.166 1.166 1.1646 1.347 3.036 6.641	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853 1.340 1.875 1.540 2.590 7.163	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.371 1.179 1.859 0.799 1.105 1.216 1.215 1.700 1.326 6.819	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 3.228 6.764	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 2.242 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.476 1.007 0.560 1.059 0.739 2.258 6.356	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878 4.912 7.967	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 0.983 1.185 1.119 1.634 1.305 3.071 6.940		
640 650 900 910 920 930 940 950 960 990 195 220 210 215 220 230 240 250 270 280	3.634 3.072 6.161 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.476 1.007 0.560 1.059 0.739 0.739 0.3360 4.444	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.166 1.646 1.347 3.036 6.641 4.631	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853 1.340 1.875 1.540 2.590 7.163	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.297 1.216 1.215 1.700 1.398 2.258 6.819 4.630	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 5.236	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.476 1.007 0.560 1.059 0.739 2.258 6.356 4.444	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.347 1.342 1.878 1.542 4.912 7.967 5.759	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 2.821 1.224 2.822 0.754 1.054 1.054 1.185 1.119 1.634 1.305 3.071 6.940		
640 650 900 910 920 930 940 950 990 195 200 210 215 220 230 240 250 270 280 290	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.883 2.033 0.953 2.422 0.651 0.863 0.476 0.560 1.059 0.739 3.360 6.356 4.444 6.269	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.166 1.166 1.646 1.347 3.036 6.641 4.631 6.555	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 1.370 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 2.582 5.759 7.793	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.215 1.215 1.700 1.398 2.258 6.630 6.700	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786 6.203	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 5.236	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 0.953 1.859 0.616 0.863 0.476 1.007 0.560 1.059 0.739 2.258 4.444 6.203	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878 1.542 4.912 7.967 5.759	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 1.054 1.119 1.634 1.305 3.071 4.958 6.722		
640 650 900 910 920 930 940 950 960 990 215 220 220 2230 240 250 270 280 280 300	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 0.560 1.059 0.739 3.360 6.356 6.356 4.444 6.269 3.404	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.166 1.166 1.646 1.347 3.036 6.641 4.631 6.555 4.093	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 1.370 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910	4.959 4.400 7.537 7.458 4.901 3.973 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 7.793 5.072	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.216 1.215 1.700 1.398 6.819 4.630 6.700 4.336	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786 6.203 4.278	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790 1.126 1.142 1.213 1.749 1.397 4.912 6.867 5.236 6.621 4.929	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863 0.476 0.560 1.007 0.560 1.059 0.739 2.258 6.356 6.356 4.444 6.203 3.404	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878 4.912 7.967 5.759	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119 1.634 1.305 3.071 6.940 4.958 6.722 4.393		
640 650 900 910 920 930 940 950 960 990 195 200 215 220 230 240 250 270 280 290 300 310	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 1.007 0.560 1.059 0.739 3.360 6.356 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444 4.444	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.166 1.166 1.1646 1.347 3.036 6.641 4.631 4.631 6.555 4.093 3.749	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910 4.642 4.186	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759 5.072 4.666	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.097 1.216 1.700 1.398 2.258 6.819 4.630 6.700 4.336	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786 6.203 4.278 3.589	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 5.236 6.621 4.929 3.425	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051 3.095	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863 0.476 1.007 0.560 1.059 0.739 2.258 6.356 4.444 4.620 3.404 2.848	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878 4.912 7.967 5.759 5.072 4.666	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119 1.634 1.305 3.071 6.940 4.958 6.722 4.393 3.733		
640 650 900 910 920 930 940 950 960 990 215 220 220 220 2230 240 250 270 280 280 300	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 0.560 1.059 0.739 3.360 6.356 6.356 4.444 6.269 3.404	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.017 1.166 1.166 1.646 1.347 3.036 6.641 4.631 6.555 4.093	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 1.370 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 3.777 3.203 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759 7.793 5.072 4.666 7.332	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.216 1.215 1.700 1.398 6.819 4.630 6.700 4.336	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 6.764 4.786 6.203 4.278 3.589 6.178	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790 1.126 1.142 1.213 1.749 1.397 4.912 6.867 5.236 6.621 4.929	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863 0.476 0.560 1.007 0.560 1.059 0.739 2.258 6.356 6.356 4.444 6.203 3.404	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878 4.912 7.967 5.759	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119 1.634 1.305 3.071 6.940 4.958 6.722 4.393 3.733		
640 650 900 910 920 930 940 950 990 195 200 210 215 220 230 240 250 270 280 290 300 310 320	3.634 3.072 6.161 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 1.007 0.560 1.059 3.360 6.356 4.444 6.269 3.404 2.848 5.701	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.016 1.166 1.646 1.646 4.631 6.555 4.093 3.749 5.946	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.458 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910 4.642 4.186 6.484 0.394	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759 7.793 5.076 6.7332 0.421	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.371 1.179 1.859 0.799 1.105 1.216 1.215 1.700 1.326 6.819 4.630 6.700 4.336 6.700 4.336 6.183	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786 6.203 4.278 3.589 6.178 0.363	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 4.912 6.867 5.236 6.621 4.929 3.425 6.141	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 2.242 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051 3.095 5.936	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 1.007 0.560 1.059 0.739 2.258 6.356 4.444 6.203 3.404 2.848 5.701	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.347 1.342 1.347 1.542 4.912 7.967 5.759 7.793 5.072 4.666 7.332	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 2.822 0.754 1.054 0.983 1.185 1.119 1.634 1.305 3.071 6.940 4.958 6.722 4.393 3.733 6.281 0.280		
640 650 900 910 920 930 940 950 960 990 195 200 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.482 0.651 0.863 0.476 1.007 0.560 1.059 0.739 0.739 4.444 6.269 3.404 5.701 0.000	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.166 1.646 1.347 3.036 6.641 4.631 6.555 4.093 3.749 5.946 0.362	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.456 4.057 3.436 0.616 0.937 1.455 1.119 2.605	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 1.370 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910 4.642 4.186 6.484 0.394 0.666	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759 7.793 5.072 4.666 0.421 0.712	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.216 1.215 1.700 4.366 6.633 6.633 0.356	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786 6.203 4.278 3.589 6.178 0.363 0.613	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 5.236 6.621 4.929 3.425 6.141 0.345	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 1.093 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051 3.095 5.936 0.117	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 0.953 1.859 0.616 0.863 0.476 1.007 0.560 1.059 0.739 0.739 4.444 6.203 3.404 5.701 0.000	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.347 1.342 1.878 1.542 7.967 5.759 7.793 5.066 7.332 0.421	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 2.822 0.754 1.054 1.054 1.305 3.071 6.940 4.958 6.722 4.393 3.733 3.733 3.733 6.281 0.280		
640 650 900 910 920 930 940 950 960 990 195 200 210 215 220 220 220 220 220 230 240 250 270 280 290 300 310 320 395 400 410 410 420	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 1.007 0.560 1.059 0.739 3.360 6.356 6.356 6.356 4.444 6.269 3.404 2.848 5.701 0.000 0.035 0.258	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.166 1.166 1.646 1.347 3.036 6.641 4.631 6.555 4.093 3.749 5.946 0.362 0.581 0.699	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 2.664 1.057 3.436 0.616 0.937 1.455 1.119 2.605	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 1.370 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910 4.642 4.186 6.484 0.394 4.186 6.484 0.394 1.047	4.959 4.400 7.537 7.458 4.901 3.973 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 7.793 5.072 4.666 7.332 0.421 0.712 0.863 1.078	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.097 1.216 1.700 1.398 2.258 6.819 4.630 6.700 4.336 6.600 6.183 0.356 0.612 0.724 0.938	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786 6.203 4.278 3.589 6.178 0.363 0.743 0.938	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 2.867 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 4.929 3.425 6.141 0.345 0.572 0.710 0.921	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 6.476 4.051 3.095 5.936 0.117 0.375 0.484 0.718	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 0.863 0.476 0.560 1.007 0.560 1.059 0.739 2.258 6.356 6.356 6.4444 6.203 3.404 2.848 5.701 0.000 0.0035 0.258	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.142 1.347 1.342 1.878 4.912 7.967 5.759 7.793 5.072 4.666 7.332 0.421 0.712 0.863 1.078	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119 1.634 1.305 3.071 6.940 4.958 6.722 4.393 3.733 6.281 0.280 0.503 0.625 0.842		
640 650 900 910 920 930 940 950 960 990 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410 410 420 430	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 1.007 0.560 1.059 3.360 6.356 4.444 6.269 4.444 6.269 5.701 0.000 0.000 0.005 0.035 0.258	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.016 1.166 1.646 1.646 1.646 1.641 4.631 6.555 4.093 3.749 5.946 0.362 0.581 0.699 0.923 1.772	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 2.664 1.057 3.436 0.616	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910 4.642 4.186 6.484 0.394 0.666 0.814 1.047	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759 7.793 5.072 4.666 7.332 0.421 0.712 0.863 1.078 1.779	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.071 1.179 1.859 0.799 1.105 1.216 1.215 1.700 4.336 6.700 4.336 6.700 4.336 0.356 0.612 0.724 0.938 1.575	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.068 1.184 1.179 1.708 6.203 4.278 6.764 4.786 6.203 3.589 6.178 0.363 0.613 0.743 0.938 1.798	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 5.236 6.621 4.929 3.425 6.141 0.345 0.572 0.7710 0.921 2.578	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051 3.095 5.936 0.117 0.375 0.484 0.718 1.933	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 1.059 0.739 2.258 6.356 4.444 6.203 3.404 2.848 5.701 0.000 0.000 0.0035 0.258	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.1342 1.347 1.342 1.878 4.912 7.967 5.759 7.793 4.666 7.332 0.421 0.712 0.863 1.078 2.578	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 3.579 2.821 1.224 2.822 0.754 1.054 0.983 1.185 1.119 1.634 4.958 6.722 6.724 4.958 6.722 6.280 0.503 3.733 6.281 0.280 0.503		
640 650 900 910 920 930 940 950 990 195 200 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410 410 420 430 440	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.482 0.651 0.863 0.476 1.007 0.560 1.059 0.739 0.739 3.360 6.356 4.444 6.269 3.404 5.701 0.000 0.000 0.035 0.258	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.166 1.646 1.347 3.036 6.641 4.631 6.555 4.093 3.749 5.946 0.362 0.581 0.699 0.923 1.772 4.424	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 3.456 4.1.057 3.436 0.616 0.937 1.455 1.119 2.605	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910 4.642 4.186 6.484 0.394 0.666 0.814 1.047 1.762 5.053	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759 7.793 5.072 4.666 7.332 0.421 0.712 0.863 1.078 1.779 5.615	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.334 2.677 1.179 1.859 0.799 1.105 1.216 1.215 1.700 4.336 6.700 4.336 6.700 4.336 6.6183 0.356 0.612 0.724 0.724 0.724 4.655	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 3.228 6.764 4.786 6.203 4.278 6.178 0.363 0.613 0.743 0.7938 1.798 4.686	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 3.457 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 5.236 6.621 4.929 6.141 0.345 0.572 0.710 0.921 2.578 5.278	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 3.298 2.422 1.064 2.124 0.758 1.093 1.093 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051 3.095 5.936 0.117 0.375 0.484 0.718 1.933 4.579	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 0.953 1.859 0.616 0.863 0.476 1.007 0.560 1.059 0.739 2.358 6.356 4.444 6.203 3.404 5.701 0.000 0.000 0.035 0.258 1.427 4.424	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.347 1.342 1.878 1.542 7.967 5.759 7.793 5.072 4.666 7.332 0.421 0.712 0.863 1.078 2.578 5.615	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 2.822 0.754 0.983 1.185 1.119 1.634 1.305 3.071 6.940 4.958 6.722 4.393 3.733 6.281 0.280 0.503 0.625 1.773 4.867		
640 650 900 910 920 930 940 950 960 990 210 215 220 230 240 250 270 280 290 300 310 320 395 400 410 410 420 430	3.634 3.072 6.161 6.031 2.888 1.896 2.385 1.873 2.888 2.033 0.953 2.422 0.651 0.863 0.476 1.007 0.560 1.059 3.360 6.356 4.444 6.269 4.444 6.269 5.701 0.000 0.000 0.005 0.035 0.258	4.075 3.704 5.892 5.831 3.155 2.500 2.933 2.546 3.155 2.621 1.144 2.912 0.728 1.017 1.016 1.166 1.646 1.646 1.646 1.641 4.631 6.555 4.093 3.749 5.946 0.362 0.581 0.699 0.923 1.772	4.430 3.588 6.576 6.516 3.458 2.336 3.109 2.388 2.664 1.057 3.436 0.616 0.937 1.455 1.119 2.605	4.593 4.116 6.776 6.671 3.871 3.277 3.487 3.080 3.871 3.170 2.819 0.853 1.340 1.875 1.540 2.590 7.163 5.220 6.910 4.642 4.186 6.484 0.394 0.666 0.814 1.047 1.762 5.053	4.959 4.400 7.537 7.458 4.901 3.973 3.777 3.203 4.901 3.848 1.306 3.525 0.806 1.111 1.101 1.347 1.342 1.878 1.542 2.582 7.967 5.759 7.793 5.072 4.666 7.332 0.421 0.712 0.863 1.078 1.779 5.615 1.382	4.297 3.665 6.250 6.143 3.334 2.786 3.071 2.486 3.071 1.179 1.859 0.799 1.105 1.216 1.215 1.700 4.336 6.700 4.336 6.700 4.336 0.356 0.612 0.724 0.938 1.575	4.275 3.608 6.442 6.378 3.567 2.792 3.050 2.498 3.567 2.686 1.378 0.791 1.101 1.068 1.184 1.179 1.708 1.361 4.278 3.589 6.764 4.786 6.203 4.278 3.589 6.178 0.363 0.613 0.743 0.938 4.686 0.983	5.096 3.546 6.771 6.679 3.457 3.147 3.505 2.304 1.403 2.779 0.790 1.126 1.142 1.192 1.213 1.749 1.397 4.912 6.867 5.236 6.621 4.929 3.425 6.141 0.345 0.572 0.7710 0.921 2.578	4.075 3.121 6.125 6.019 3.298 2.757 3.006 2.246 2.124 0.758 1.093 0.949 1.221 1.048 1.411 1.231 3.014 6.559 4.679 6.476 4.051 3.095 5.936 0.117 0.375 0.484 0.718 1.933	3.634 3.072 5.892 5.831 2.888 1.896 2.385 1.873 2.888 2.033 0.953 1.859 0.616 1.059 0.739 2.258 6.356 4.444 6.203 3.404 2.848 5.701 0.000 0.000 0.0035 0.258	5.096 3.704 7.537 6.679 3.567 3.147 3.505 2.546 4.901 2.867 1.403 3.525 0.853 1.126 1.1342 1.347 1.342 1.878 4.912 7.967 5.759 7.793 4.666 7.332 0.421 0.712 0.863 1.078 2.578	6.142 4.420 3.712 6.551 6.463 3.579 2.838 3.165 2.547 2.822 0.754 1.054 1.054 1.305 4.958 6.722 4.393 3.733 6.281 0.280 0.503 0.625 0.842 1.773 4.867		

FREE-FLOAT TEMPERATURE OUTPUT
MAXIMUM ANNUAL HOURLY ZONE TEMPERATURE (C)

MAXIMUM	annual h	IOURLY ZOI	NE LEMPE	KATUKE (C	(ز									
CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY:	UK-DMU	USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)					
600FF	64.9	65.1	69.5	68.6	69.8	64.9	65.3	65.3	65.5	64.900	69.810	66.669	0	-
900FF	41.8	43.4	42.7	44.8	43.4	43.0	42.5	43.2	42.2	41.812	44.800	43.103	0	-
650FF	63.2	63.5	68.2	67.0	68.5	63.3	63.7	63.8	63.6	63.236	68.490	65.155	0	_
950FF	35.5	36.2	35.9	38.5	35.7	36.1	35.7	37.6	35.6	35.540	38.500	36.396	0	-
960	48.9	48.9	49.0	51.0	51.2	50.2	55.3	48.9	67.6	48.880	55.340	50.437	×	189.1%
MINIMUM A	ANNUAL H	OURLY ZON	IE TEMPEI	RATURE (C	:)									
CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY:		USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)					
600FF	-15.6	-17.1	-18.8	-18.0	-10.0	-17.8	-17.8	-18.5	-18.4	-18.800	-9.960	-16.682	0	-
900FF	-1.6	-3.2	-4.3	-4.5	-3.9	-4.0	-6.4	-5.6	-3.9	-6.380	-1.647	-4.195	0	-
650FF	-22.6	-23.0	-21.6	-23.0	-10.0	-22.9	-22.8	-22.9	-23.0	-23.000	-9.970	-21.092	×	0.0%
950FF	-19.5	-20.0	-18.6	-19.7	-9.8	-20.2	-19.3	-20.0	-18.8	-20.200	-9.830	-18.394	0	-
960	2.7	1.6	3.9	3.1	2.2	1.4	-2.8	-0.4	-4.1	-2.820	3.900	1.471	×	-19.3%
AVERAGE	ANNUAL H	HOURLY ZO	NE TEMPE	RATURE (C)									
CODENAM	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
COUNTRY:	UK-DMU	USA/ITALY	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
CASE#	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)	TMP (C)					
600FF	25.1	25.4	24.6	25.5	25.9	25.2	24.5	24.2	25.2	24.220	25.930	25.060	0	-
900FF	25.5	25.9	24.7	25.5	25.7	25.2	24.5	24.5	25.3	24.450	25.930	25.177	0	-
650FF	18.2	18.7	19.1	19.0	19.6	18.4	18.0	18.4	18.7	17.990	19.620	18.669	0	-
950FF	14.1	14.3	14.3	15.0	14.3	14.0	14.5	14.6	14.7	14.000	14.970	14.391	0	-
960	27.5	27.7	28.0	28.7	28.5	28.0	29.0	26.4	27.9	26.430	28.960	27.979	0	-

HOURLY INCIDENT SOLAR RADIATION CLOUDY DAY, MARCH 5

CASE 600 OR 900

SOUTH SURFACE (USE COLUMN B ONLY)

(USE COL	OMN R OM	_Y)										
CODENAM	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2			
1		C	0	0	C	0	0	0	0.00	0	0	0.000
2		C	0	0	C	0	0	0	0.00	0	0	0.000
3		C	0	0	C	0	0	0	0.00	0	0	0.000
4		C	0	0	C	0	0	0	0.00	0	0	0.000
5		C	0	0	C	0	0	0	0.00	0	0	0.000
6		C	0	0	0	0	0	0	0.00	0	0	0.000
7		1.5	3.0	3.02	1.60	3	3.05	3	3.05	1.5	3.05	2.602
8		12.59	20.6	20.59	13.80	21	20.69	20.68	20.62	12.59	21	18.571
9		30.01	38.9	38.83	31.60	39	38.94	38.94	38.86	30.01	39	36.601
10		46.23	54.6	54.53	48.30	55	54.67	54.56	54.54	46.23	55	52.551
11		59.31	66.0	54.77	61.60	66	66.08	65.99	65.95	54.77	66.08	62.818
12		65.05	71.8	59.65	69.30	72	71.92	71.74	71.77	59.65	72	68.778
13		66.98	72.3	60.10	71.70	72	72.42	72.3	72.28	60.1	72.42	69.683
14		63.11	66.4	55.24	68.10	66	66.53	66.38	66.41	55.24	68.1	64.538
15		51.79	54.9	45.68	58.90	55	55	54.8	54.91	45.68	58.9	53.724
16		37.13	38.9	32.37	44.40	39	38.94	38.84	38.90	32.37	44.4	38.509
17		19.14	20.5	17.06	26.90	20	20.52	20.46	20.49	17.06	26.9	20.651
18		4.62	3.0	2.54	8.70	3	3.05	0	3.06	0	8.7	3.565
19		C	0	0	C	0	0	0	0.00	0	0	0.000
20		C	0	0	C	0	0	0	0.00	0	0	0.000
21		C	0	0	C	0	0	0	0.00	0	0	0.000
22		0	0	0	C	0	0	0	0.00	0	0	0.000
23		C	0	0	C	0	0	0	0.00	0	0	0.000
24		0	0	0	0	0	0	0	0.00	0	0	0.000

HOURLY INCIDENT SOLAR RADIATION CLOUDY DAY, MARCH 5

CASE 600 OR 900

WEST SURFACE

(USE COLUMN B ONLY)

(00=00=	• • • · · ·	,										
CODENAN	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/U	FINLAND		MIN	MAX	
HOUR	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2			
1		C	0	0	0	0	C	0	0.00	0	0	0.000
2		C	0	0	0	0	C	0	0.00	0	0	0.000
3		0	0	0	0	0	C	0	0.00	0	0	0.000
4		0	0	0	0	0	0	0	0.00	0	0	0.000
5		0	0	0	0	0	C	0	0.00	0	0	0.000
6		0	0	0	0	0	C	0	0.00	0	0	0.000
7		1.8	3.0	3	1.60	3	2.99	3	2.99	1.6	3	2.627
8		13.92	20.2	20.24	13.50	20	20.17	20.15	20.21	13.5	20.24	18.309
9		31.75	38.0	38.01	31	38	37.92	37.9	37.98	31	38.01	36.076
10		45.24	53.2	53.27	47.10	53	53.17	53.15	53.27	45.24	53.27	51.168
11		56.63	64.5	53.37	59.70	64	64.39	64.4	64.48	53.37	64.47	60.994
12		61.58	70.0	57.91	67.40	70	69.89	69.95	69.99	57.91	70	66.673
13		63.7	70.8	58.30	70.10	71	70.75	71.16	70.67	58.3	71.16	67.974
14		61.46	65.7	54.15	67.30	66	65.69	66.02	65.52	54.15	67.3	63.755
15		51.67	54.9	45.38	58.90	55	55.03	55.16	54.80	45.38	58.9	53.723
16		37.2	39.5	32.70	44.90	40	39.61	39.73	39.39	32.7	44.9	39.090
17		16.72	21.3	17.70	27.60	21	21.42	21.6	21.24	16.72	27.6	21.047
18		2.52	3.3	2.73	9	3	3.28	0	3.24	0	9	3.400
19		0	0	0	0	0	C	0	0.00	0	0	0.000
20		0	0	0	0	0	C	0	0.00	0	0	0.000
21		0	0	0	0	0	C	0	0.00	0	0	0.000
22		C	0	0	0	0	C	0	0.00	0	0	0.000
23		0	0	0	0	0	C	0	0.00	0	0	0.000
24		0	0	0	0	0	C	0	0.00	0	0	0.000

HOURLY INCIDENT SOLAR RADIATION, CLEAR DAY, JULY 27

CASE 600

SOUTH SURFACE

(USE COLUMN B ONLY)

(OCE COLOMINED CIVILITY)												
CODENAM	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2			
1		0	0	0	0	0	0	0	0.00	0	0	0.000
2		0	0	0	0	0	0	0	0.00	0	0	0.000
3		0	0	0	0	0	0	0	0.00	0	0	0.000
4		0	0	0	0	0	0	0	0.00	0	0	0.000
5		0	0.2	0.14	0.50	0	0.17	0.2	0.17	0	0.5	0.168
6		20.11	27.8	29.94	17.90	28	27.01	25.7	26.16	17.9	29.94	25.213
7		70.22	77.3	89.20	58.60	80	63	62.1	81.04	58.6	89.2	71.489
8		108.13	100.0	112.85	100.40	104	71.22	107.47	106.96	71.22	112.85	100.580
9		219.58	211.0	164.86	205.90	217	187.72	232.33	210.67	164.86	232.33	205.485
10		343.67	331.0	291.84	326	336	314.17	349.16	331.55	291.84	349.16	327.407
11		435.54	418.2	389.26	415.10	423	404.44	430.22	419.90	389.26	435.54	416.533
12		475.37	455.0	437.20	454.80	459	443.61	459.85	458.03	437.2	475.37	454.975
13		488.49	464.6	455.75	455.60	469	452.50	462.28	469.06	452.5	488.49	464.027
14		443.66	413.6	413.67	408.60	418	400.56	404.57	419.41	400.56	443.66	414.671
15		367.07	334.3	341.53	321.20	340	316.94	319.26	341.29	316.94	367.07	334.326
16		246.71	211.9	223.71	200.60	218	188.89	193.61	219.37	188.89	246.71	211.923
17		119.19	111.7	105.72	102.30	115	86.03	132.3	108.82	86.03	132.3	110.326
18		68.86	73.1	68.47	78.80	74	69.78	76.6	72.58	68.47	78.8	72.798
19		19.75	17.7	14.35	37.10	18	17.61	18.05	17.65	14.35	37.1	20.366
20		0	0	0	1.10	0	0	0	0.00	0	1.1	0.157
21		0	0	0	0	0	0	0	0.00	0	0	0.000
22		0	0	0	0	0	0	0	0.00	0	0	0.000
23		0	0	0	0	0	0	0	0.00	0	0	0.000
24		0	0	0	0	0	0	0	0.00	0	0	0.000

HOURLY INCIDENT SOLAR RADIATION, CLEAR DAY, JULY 27

CASE 600

WEST SURFACE

(USE COLUMN B ONLY)

COUNTRY US/ TALY USA USA UK UK-DMU SPAIN Belgium/UFINLAND Wh/m2 W	(002 00201111)												
HOUR	CODENAN	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
1 0 0 0 0 0 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0 <	COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
2 0 0 0 0 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0<	HOUR	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2	Wh/m2			
3	1		0	0	0	0	0	0	0	0.00	0	0	0.000
4 0 0 0 0 0 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0.00 0 0 0.00 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2		0	0	0	0	0	0	0	0.00	0	0	0.000
5 0 0.2 0.14 0.40 0 0.17 0.2 0.17 0 0.4 0.154 6 19.96 27.8 29.94 17.90 28 27.01 25.7 26.16 17.9 29.94 25.191 7 65.86 77.3 89.20 58.50 80 63 62.1 81.04 58.5 89.2 70.852 8 97.11 100.0 112.85 91.80 104 71.22 72 106.96 71.22 112.85 92.71 9 116.89 120.1 121.41 113.70 125 85.58 92.6 127.13 85.58 125 110.74 10 128.97 135.0 123.51 131.20 140 98.03 112.8 141.15 98.03 140 124.21 11 138.05 149.6 125.06 145.70 154 109.14 136.75 153.98 109.14 154 136.89 12 <	3		0	0	0	0	0	0	0	0.00	0	0	0.000
6 19.96 27.8 29.94 17.90 28 27.01 25.7 26.16 17.9 29.94 25.191 7 65.86 77.3 89.20 58.50 80 63 62.1 81.04 58.5 89.2 70.852 8 97.11 100.0 112.85 91.80 104 71.22 72 106.96 71.22 112.85 92.710 9 116.89 120.1 121.41 113.70 125 85.58 92.6 127.13 85.58 125 110.747 10 128.97 135.0 123.51 131.20 140 98.03 112.8 141.15 98.03 140 124.210 11 138.05 149.6 125.06 145.70 154 109.14 136.75 153.98 109.14 154 136.89 12 141.34 153.1 121.07 153.80 157 113.06 150.9 155.43 113.06 157 141.472	4		0	0	0	0	0	0	0	0.00	0	0	0.000
7 65.86 77.3 89.20 58.50 80 63 62.1 81.04 58.5 89.2 70.852 8 97.11 100.0 112.85 91.80 104 71.22 72 106.96 71.22 112.85 92.710 9 116.89 120.1 121.41 113.70 125 85.58 92.6 127.13 85.58 125 110.747 10 128.97 135.0 123.51 131.20 140 98.03 112.8 141.15 98.03 140 124.210 11 138.05 149.6 125.06 145.70 154 109.14 136.75 153.98 109.14 154 136.89 12 141.34 153.1 121.07 153.80 157 113.06 150.9 155.43 113.06 157 141.472 13 243.51 266.4 117.94 267.70 270 235.17 382.5 245.86 117.94 382.5 254.753 </td <td>5</td> <td></td> <td>0</td> <td>0.2</td> <td>0.14</td> <td>0.40</td> <td>0</td> <td></td> <td></td> <td>0.17</td> <td>0</td> <td>0.4</td> <td>0.154</td>	5		0	0.2	0.14	0.40	0			0.17	0	0.4	0.154
8 97.11 100.0 112.85 91.80 104 71.22 72 106.96 71.22 112.85 92.70 9 116.89 120.1 121.41 113.70 125 85.58 92.6 127.13 85.58 125 110.747 10 128.97 135.0 123.51 131.20 140 98.03 112.8 141.15 98.03 140 124.210 11 138.05 149.6 125.06 145.70 154 109.14 136.75 153.98 109.14 154 136.898 12 141.34 153.1 121.07 153.80 157 113.06 150.9 155.43 113.06 157 141.472 13 243.51 266.4 117.94 267.70 270 235.17 382.5 245.86 117.94 382.5 254.763 14 462.83 461.3 333.68 464.80 463 453.89 576.81 440.65 333.68 574.812	6		19.96	27.8	29.94	17.90	28	27.01	25.7	26.16	17.9	29.94	25.191
9	7		65.86	77.3	89.20	58.50	80	63	62.1	81.04	58.5	89.2	70.852
10 128.97 135.0 123.51 131.20 140 98.03 112.8 141.15 98.03 140 122.10 11 138.05 149.6 125.06 145.70 154 109.14 136.75 153.98 109.14 154 136.898 12 141.34 153.1 121.07 153.80 157 113.06 150.9 155.43 113.06 157 141.472 13 243.51 266.4 117.94 267.70 270 235.17 382.5 245.86 117.94 382.5 254.753 14 462.83 461.3 333.68 464.80 463 453.89 576.81 440.65 333.68 576.81 459.470 15 664.62 635.5 525.35 635.10 635 652.50 744.52 616.06 525.35 744.52 641.800 16 786.35 719.3 634.59 738.30 715 762.78 807.29 703.76 634.59 807.29<	8		97.11	100.0	112.85	91.80	104	71.22	72	106.96	71.22	112.85	92.710
11 138.05 149.6 125.06 145.70 154 109.14 136.75 153.98 109.14 154 136.898 12 141.34 153.1 121.07 153.80 157 113.06 150.9 155.43 113.06 157 141.472 13 243.51 266.4 117.94 267.70 270 235.17 382.5 245.86 117.94 382.5 254.753 14 462.83 461.3 333.68 464.80 463 453.89 576.81 440.65 333.68 576.81 459.470 15 664.62 635.5 525.35 635.10 635 652.50 744.52 616.06 525.35 744.52 641.800 16 786.35 719.3 634.59 738.30 715 762.78 807.29 703.76 634.59 807.29 737.662 17 649.05 502.8 478.44 623.90 497 568.33 541.68 496.09 478.44	9		116.89	120.1	121.41	113.70	125	85.58	92.6	127.13	85.58	125	110.747
12 141.34 153.1 121.07 153.80 157 113.06 150.9 155.43 113.06 157 141.472 13 243.51 266.4 117.94 267.70 270 235.17 382.5 245.86 117.94 382.5 254.753 14 462.83 461.3 333.68 464.80 463 453.89 576.81 440.65 333.68 576.81 459.470 15 664.62 635.5 525.35 635.10 635 652.50 744.52 616.06 525.35 744.52 641.800 16 786.35 719.3 634.59 738.30 715 762.78 807.29 703.76 634.59 807.29 737.662 17 649.05 502.8 478.44 623.90 497 568.33 541.68 496.09 478.44 649.05 551.598 18 243.11 141.2 140.30 296.90 139 158 145.25 140.57 139 296	10		128.97	135.0	123.51	131.20	140	98.03	112.8	141.15	98.03	140	124.210
13 243.51 266.4 117.94 267.70 270 235.17 382.5 245.86 117.94 382.5 254.753 14 462.83 461.3 333.68 464.80 463 453.89 576.81 440.65 333.68 576.81 459.470 15 664.62 635.5 525.35 635.10 635 652.50 744.52 616.06 525.35 744.52 641.800 16 786.35 719.3 634.59 738.30 715 762.78 807.29 703.76 634.59 807.29 737.662 17 649.05 502.8 478.44 623.90 497 568.33 541.68 496.09 478.44 649.05 551.598 18 243.11 141.2 140.30 296.90 139 158 145.25 140.57 139 296.9 180.543 19 43.19 25.2 21.96 68.80 24 26.60 24.9 25.22 21.96 68.8	11		138.05	149.6	125.06	145.70	154	109.14	136.75	153.98	109.14	154	136.898
14 462.83 461.3 333.68 464.80 463 453.89 576.81 440.65 333.68 576.81 459.470 15 664.62 635.5 525.35 635.10 635 652.50 744.52 616.06 525.35 744.52 641.800 16 786.35 719.3 634.59 738.30 715 762.78 807.29 703.76 634.59 807.29 737.662 17 649.05 502.8 478.44 623.90 497 568.33 541.68 496.09 478.44 649.05 551.598 18 243.11 141.2 140.30 296.90 139 158 145.25 140.57 139 296.9 180.543 19 43.19 25.2 21.96 68.80 24 26.60 24.9 25.22 21.96 68.8 33.528 20 0 0 0 0 0 0 0 0 0 0 0 0	12		141.34	153.1	121.07	153.80	157	113.06	150.9	155.43	113.06	157	141.472
15 664.62 635.5 525.35 635.10 635 652.50 744.52 616.06 525.35 744.52 641.800 16 786.35 719.3 634.59 738.30 715 762.78 807.29 703.76 634.59 807.29 737.662 17 649.05 502.8 478.44 623.90 497 568.33 541.68 496.09 478.44 649.05 551.598 18 243.11 141.2 140.30 296.90 139 158 145.25 140.57 139 296.9 180.543 19 43.19 25.2 21.96 68.80 24 26.60 24.9 25.22 21.96 68.8 33.528 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13		243.51	266.4	117.94	267.70	270	235.17	382.5	245.86	117.94	382.5	254.753
16 786.35 719.3 634.59 738.30 715 762.78 807.29 703.76 634.59 807.29 737.662 17 649.05 502.8 478.44 623.90 497 568.33 541.68 496.09 478.44 649.05 551.598 18 243.11 141.2 140.30 296.90 139 158 145.25 140.57 139 296.9 180.543 19 43.19 25.2 21.96 68.80 24 26.60 24.9 25.22 21.96 68.8 33.528 20 0 0 0 0 0 0 0 0 1.6 0.229 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td< td=""><td>14</td><td></td><td>462.83</td><td>461.3</td><td>333.68</td><td>464.80</td><td>463</td><td>453.89</td><td>576.81</td><td>440.65</td><td>333.68</td><td>576.81</td><td>459.470</td></td<>	14		462.83	461.3	333.68	464.80	463	453.89	576.81	440.65	333.68	576.81	459.470
17 649.05 502.8 478.44 623.90 497 568.33 541.68 496.09 478.44 649.05 551.598 18 243.11 141.2 140.30 296.90 139 158 145.25 140.57 139 296.9 180.543 19 43.19 25.2 21.96 68.80 24 26.60 24.9 25.22 21.96 68.8 33.528 20 0 0 0 0 0 0 0 0 1.6 0.229 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15		664.62	635.5	525.35	635.10	635	652.50	744.52	616.06	525.35	744.52	641.800
18 243.11 141.2 140.30 296.90 139 158 145.25 140.57 139 296.90 180.543 19 43.19 25.2 21.96 68.80 24 26.60 24.9 25.22 21.96 68.8 33.528 20 0 0 0 0 0 0 0 0 0 16 0.228 21 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	16		786.35	719.3	634.59	738.30	715	762.78	807.29	703.76	634.59	807.29	737.662
19 43.19 25.2 21.96 68.80 24 26.60 24.9 25.22 21.96 68.8 33.526 20 0 0 0 0 0 0 0.000 0 1.6 0.225 21 0 0 0 0 0 0 0.000 0 0 0.000 22 0 0 0 0 0 0 0.000 0 0.000 23 0 0 0 0 0 0.000 0 0.000	17		649.05	502.8	478.44	623.90	497	568.33	541.68	496.09	478.44	649.05	551.598
20 0 0 0 1.60 0 0 0.00 0 1.6 0.225 21 0 0 0 0 0 0 0.000 0 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0	18		243.11	141.2	140.30	296.90	139	158	145.25	140.57	139	296.9	180.543
21 0 0 0 0 0 0.000 0 0.000 22 0 0 0 0 0 0 0.000 0 0.000 23 0 0 0 0 0 0.000 0 0.000	19		43.19	25.2	21.96	68.80	24	26.60	24.9	25.22	21.96	68.8	33.528
22 0 0 0 0 0 0 0.000 0 0.000 23 0 0 0 0 0 0 0.000 0 0.000 0 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0.000 0 0 0.000 0 0 0.000 0 0 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <td>20</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>1.60</td> <td>0</td> <td>0</td> <td>0</td> <td>0.00</td> <td>0</td> <td>1.6</td> <td>0.229</td>	20		0	0	0	1.60	0	0	0	0.00	0	1.6	0.229
23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0	0	0	0	0	0	0	0.00	0	0	0.000
	22		0	0	0	0	0	0	0	0.00	0	0	0.000
24 0 0 0 0 0 0 0 0 <u>0.00</u> 0 0 0 0.000	23		0	0	0	0	0	0	0	0.00	0	0	0.000
	24		0	0	0	0	0	0	0	0.00	0	0	0.000

HOURLY FREE FLOAT TEMPERATURE DATA

CASE 600FF JAN 4
(USE COLUMN B ONLY)

(USE COLUMN B ONLY)												
CODENAM	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	TEMP (C)	TEMP (C)	TEMP (C)									
1	-12.0	-12.3	-12.21	-11.97	-8.88	-12.1	-12.02	-13.04	-11.86	-13.04	-8.88	-11.820
2	-13.5	-14.1	-13.8	-13.59	-10.48	-13.7	-13.50	-14.59	-13.54	-14.59	-10.48	-13.410
3	-14.4	-15.4	-14.9	-14.85	-11.76	-14.7	-14.70	-15.65	-14.91	-15.65	-11.76	-14.545
4	-15.3	-16.3	-15.79	-15.83	-12.75	-15.6	-15.65	-16.46	-15.96	-16.46	-12.75	-15.455
5	-16.0	-17.1	-16.55	-16.65	-13.69	-16.4	-16.47	-17.16	-16.89	-17.16	-13.69	-16.252
6	-16.4	-17.9	-17.2	-17.33	-14.49	-17	-17.14	-17.79	-17.70	-17.9	-14.49	-16.906
7	-17.0	-18.5	-17.74	-17.90	-15.15	-17.6	-17.70	-18.32	-18.39	-18.5	-15.15	-17.490
8	-17.1	-18.8	-17.85	-18.09	-15.63	-17.8	-17.59	-18.47	-18.38	-18.8	-15.63	-17.660
9	-13.7	-14.7	-14.88	-15.46	-14.63	-14.6	-13.46	-15.47	-14.80	-15.47	-13.46	-14.617
10	-8.0	-7.8	-9.07	-9.56	-10.03	-8.9	-7.10	-9.56	-8.89	-10.03	-7.1	-8.752
11	2.6	3.2	1.01	0.68	-2.20	1	3.66	0.49	1.69	-2.2	3.66	1.305
12	12.2	13.4	11.21	12.04	8.84	10.7	13.49	10.39	11.60	8.84	13.49	11.536
13	20.9	22.3	20.03	21.88	18.96	19.2	21.77	18.75	20.06	18.75	22.3	20.469
14	27.5	29.5	27.27	29.82	27.19	26.1	28.26	25.48	26.79	25.48	29.82	27.644
15	31.3	33.8	31.34	34.69	33.22	29.8	32.09	29.21	30.73	29.21	34.69	31.935
16	31.1	33.5	31.47	35.46	35.51	29.7	32.16	28.97	30.77	28.97	35.51	32.229
17	24.3	27	25.96	30.33	31.46	23.9	25.71	22.58	24.82	22.58	31.46	26.403
18	17.5	19.7	18.96	22.66	23.99	17.6	18.84	15.59	18.47	15.59	23.99	19.350
19	12.1	13.7	13.04	15.86	18.08	12.2	13.10	10.2	12.99	10.2	18.08	13.529
20	7.6	8.7	8.31	10.34	13.02	7.8	8.41	6.02	8.47	6.02	13.02	8.771
21	3.6	4.4	4.27	5.73	8.87	4	4.39	2.39	4.70	2.39	8.87	4.706
22	0.5	1	0.99	1.92	5.12	0.9	0.97	-0.59	1.44	-0.59	5.12	1.353
23	-1.9	-1.9	-1.66	-1.15	2.03	-1.7	-1.78	-3.04	-1.28	-3.04	2.03	-1.392
24	-4.1	-4.4	-3.92	-3.69	-1.03	-3.9	-4.03	-5.14	-3.67	-5.14	-1.03	-3.773

HOURLY FREE FLOAT TEMPERATURE DATA

CASE 900FF JAN 4

(USE COLUMN B ONLY)

CODENAM	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	TEMP (C)	TEMP (C)	TEMP (C)									
1	-0.2	-0.9	-1.31	-0.65	1.61	-0.7	-3.46	-2.68	-0.68	-3.46	1.61	-1.032
2	-0.8	-1.6	-1.97	-1.26	0.93	-1.4	-3.99	-3.33	-1.33	-3.99	0.93	-1.676
3	-1.1	-2	-2.37	-1.74	0.49	-1.8	-4.40	-3.72	-1.86	-4.4	0.49	-2.078
4	-1.7			-2.21	0.07			-4.1	-2.32	-4.8	0.07	-2.541
5	-2.0	-2.9	-3.25	-2.69	-0.41	-2.7	-5.22	-4.51	-2.79	-5.22	-0.41	-2.965
6	-2.4	-3.4	-3.68	-3.15	-0.87	-3.2	-5.60	-4.93	-3.25	-5.6	-0.87	-3.408
7	-3.0	-3.9	-4.1	-3.60	-1.27	-3.6	-5.98	-5.34	-3.70	-5.98	-1.27	-3.846
8	-3.2	-4.3	-4.4	-3.94	-1.64	-4	-6.08	-5.64	-3.94	-6.08	-1.64	-4.144
9	-2.4	-3.3	-3.45	-3.30	-1.54	-3.2	-4.72	-4.59	-3.04	-4.72	-1.54	-3.311
10	-1.1	-1.6	-1.6	-1.84	-0.40	-1.7	-2.98	-2.64	-1.53	-2.98	-0.4	-1.731
11	1.6	1.2	1.66	0.84	1.59	0.9	0.25	0.75	1.43	0.25	1.66	1.098
12	3.6	3.5	4.4	3.39	4.40	3.1	2.54	3.26	3.86	2.54	4.4	3.527
13	5.6	5.5	6.56	5.48	6.72	5.1	4.38	4.99	5.81	4.38	6.72	5.544
14	7.3	7.2	8.39	7.27	8.66	6.8	5.85	6.51	7.38	5.85	8.66	7.251
15	8.3	8	9.04	8.26	10.02	7.6	6.61	7.11	8.24	6.61	10.02	8.114
16	8.2	7.9	8.58	8.33	10.40	7.4	6.33	6.68	8.07	6.33	10.4	7.972
17	6.5	6.2	6.44	6.90	9.41	5.8	4.20	4.24	6.26	4.2	9.41	6.216
18	5.3	4.7	4.43	5.40	7.66	4.4	2.87	2.45	4.84	2.45	7.66	4.645
19	4.5	3.8	3.37	4.50	6.74	3.6	2.11	1.71	3.88	1.71	6.74	3.793
20	3.9	3.2	2.73	3.86	6	3	1.58	1.32	3.21	1.32	6	3.197
21	3.2	2.7	2.11	3.23	5.41	2.4	1.05	0.82	2.65	0.82	5.41	2.617
22	2.8	2.2	1.66	2.69	4.74	1.9	0.55	0.42	2.11	0.42	4.74	2.126
23	2.5	1.7	1.26	2.19	4.20	1.5	0.15	0.05	1.63	0.05	4.2	1.691
24	1.9	1.2	0.83	1.69	3.66	1	-0.24	-0.34	1.13	-0.34	3.66	1.213

HOURLY FREE FLOAT TEMPERATURE DATA CASE 650FFV JULY 27 (USE COLUMN B ONLY)

CODENAM	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	TEMP (C)	TEMP (C)	TEMP (C)									
1	22.2	21.8	22.37	22.25	22.58	22.4	22.69	22.26	23.03	21.8	22.69	22.322
2	21.2	20.8	21.19	20.97	21.15	21.2	21.33	21.11	21.49	20.8	21.33	21.113
3	20.3	19.9	20.33	20.09	20.23	20.4	20.41	20.28	20.48	19.9	20.41	20.243
4	19.5	19.1	19.54	19.35	19.45	19.5	19.61	19.49	19.63	19.1	19.61	19.445
5	19.3	18.8	19.21	18.99	18.95	19.2	19.16	19.14	19.06	18.8	19.21	19.093
6	19.9	19.5	19.86	19.57	19.24	19.9	19.60	19.81	19.35	19.24	19.9	19.674
7	22.5	22.2	22.51	22.09	21.16	22.5	21.68	22.49	21.31	21.16	22.51	22.145
8	25.0	24	24.89	24.56	23.56	24.7	23.47	24.81	24.01	23.47	24.89	24.377
9	28.3	27.3	28.29	27.70	25.67	27.9	26.38	28.04	27.16	25.67	28.29	27.452
10	31.8	31.5	32.42	31.41	28.91	31.7	30.35	32.11	31.17	28.91	32.42	31.279
11	35.8	36.2	37.12	35.85	32.80	36.2	34.82	36.54	35.62	32.8	37.12	35.669
12	40.2	41.1	42.08	40.82	37.49	40.8	39.38	41.15	40.08	37.49	42.08	40.377
13	43.9	45.4	46.46	45.56	41.94	45	43.48	45.03	44.14	41.94	46.46	44.597
14	46.3	48.4	49.69	49.28	45.43	48.1	46.14	47.65	47.08	45.43	49.69	47.630
15	47.6	50.1	51.3	51.45	47.41	49.6	47.40	49.04	48.68	47.4	51.45	49.242
16	47.6	50.1	51.28	51.73	47.84	49.7	47.33	49.28	48.78	47.33	51.73	49.358
17	47.3	49.1	50.46	50.74	47.01	49.1	46.71	48.73	48.23	46.71	50.74	48.649
18	45.4	46.8	48.37	48.81	45.53	47.2	45.28	46.58	46.68	45.28	48.81	46.746
19	33.7	34	35.39	37.60	37.37	35.1	33.10	34.91	35.24	33.1	37.6	35.147
20	30.9	30.9	31.63	32.09	31.57	31.6	30.49	30.69	31.94	30.49	32.09	31.230
21	28.7	28.5	29.12	29.03	29.05	29.2	28.55	28.81	29.65	28.5	29.2	28.869
22	26.5	26.3	26.83	26.62	26.92	26.9	26.66	26.66	27.56	26.3	26.92	26.673
23	25.7	25.4	25.87	25.44	25.52	25.9	25.55	25.69	26.05	25.4	25.9	25.632
24	24.1	23.7	24.19	23.96	23.84	24.2	24.26	24.1	24.76	23.7	24.26	24.038

HOURLY FREE FLOAT TEMPERATURE DATA

CASE 950FFV JULY 27

(USE COLUMN B ONLY)

CODENAM	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	TEMP (C)	TEMP (C)	TEMP (C)									
1	24.6	24.2	24.52	25.51	24.36	24.6	25.28	24.53	24.94	24.2	25.51	24.695
2	23.9	23.5	23.81	24.74	23.46	23.9	24.47	23.8	24.00	23.46	24.74	23.947
3	23.3	22.9	23.22	24.07	22.86	23.3	23.87	23.23	23.38	22.86	24.07	23.345
4	22.7	22.3	22.6	23.39	22.27	22.7	23.26	22.6	22.79	22.27	23.39	22.725
5	22.5	22	22.32	22.96	21.86	22.4	22.87	22.27	22.35	21.86	22.96	22.392
6	22.8	22.5	22.77	23.08	22.01	22.8	23.06	22.67	22.45	22.01	23.08	22.713
7	24.7	24.3	24.73	24.37	23.32	24.6	24.38	24.55	23.66	23.32	24.73	24.365
8	27.4	26.5	27.59	25.85	25.62	27.1	27.21	27.57	26.55	25.62	27.59	26.850
9	28.3	27.5	29.09	26.81	27.59	28.2	27.98	29.42	27.66	26.81	29.42	28.114
10	29.2	28.6	30.5	27.79	28.82	29.3	29.11	30.68	28.84	27.79	30.68	29.251
11	30.2	29.8	31.98	28.96	29.84	30.5	30.31	31.91	30.06	28.96	31.98	30.436
12	31.3	31.1	33.56	30.31	30.98	31.7	31.53	33.27	31.27	30.31	33.56	31.723
13	32.2	32.2	34.79	31.54	32.08	32.8	32.55	34.27	32.38	31.54	34.79	32.802
14	32.8	33	35.65	32.52	32.85	33.6	33.15	34.9	33.13	32.52	35.65	33.564
15	33.1	33.4	35.96	33.08	33.33	34	33.37	35.19	33.55	33.08	35.96	33.931
16	33.2	33.5	35.82	33.22	33.55	34.1	33.38	35.28	33.61	33.22	35.82	34.012
17	33.4	33.5	35.61	33.18	33.44	34.1	33.37	35.3	33.62	33.18	35.61	33.982
18	33.0	33.1	34.93	32.94	33.23	33.7	33.16	34.71	33.36	32.94	34.93	33.596
19	30.2	30	30.96	30.93	30.92	30.6	30.43	30.74	30.80	30	30.96	30.598
20	29.4	29.1	29.79	29.97	29.17	29.6	29.61	29.38	29.75	29.1	29.97	29.497
21	28.5	28.2	28.83	29.17	28.31	28.7	28.89	27.64	28.93	27.64	29.17	28.535
22	27.4	27.1	27.59	28.15	27.27	27.5	27.93	27.46	27.93	27.1	28.15	27.547
23	27.2	26.8	27.28	27.72	26.62	27.3	27.42	27.1	27.21	26.62	27.72	27.177
24	26.0	25.7	26.1	26.74	25.54	26.1	26.59	26.02	26.50	25.54	26.74	26.096

HOURLY HEATING & COOLING LOAD DATA CASE 600 JAN 4 [USE (-) FOR COOLING]

CODENAN	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh			
1	3.802	3.926	4.13	4.19	3.25	3.93	3.767	4.225	3.66	3.25	4.23	3.902
2	3.911	4.035	4.26	4.31	3.41	4.04	3.867	4.354	3.79	3.41	4.35	4.022
3	3.866	4.013	4.23	4.25	3.39	4	3.903	4.321	3.83	3.39	4.32	3.998
4	3.920	4.041	4.22	4.23	3.38	4	3.894	4.308	3.81	3.38	4.31	3.999
5	3.940	4.045	4.22	4.23	3.42	4	3.917	4.303	3.81	3.42	4.3	4.009
6	3.926	4.036	4.22	4.23	3.43	4	3.931	4.307	3.82	3.43	4.31	4.010
7	3.937	4.045	4.22	4.23	3.42	4	3.931	4.307	3.82	3.42	4.31	4.011
8	3.702	3.857	4.09	4.04	3.34	3.9	3.753	4.167	3.63	3.34	4.17	3.856
9	2.675	2.559	2.9	2.36	2.77	2.71	2.423	2.912	2.41	2.36	2.91	2.663
10	1.383	0.843	1.28	0.33	1.50	1.15	0.797	1.466	0.94	0.33	1.5	1.092
11	0.000	0.000	0	-0.15	0.15	0	-0.035	0.000	0.00	-0.15	0.15	-0.004
12	-1.224	-1.552	-1.07	-2.99	-0.77	-1.04	-1.435	-0.424	-1.35	-2.99	-0.42	-1.312
13	-2.487	-2.854	-2.59	-4.12	-2.66	-2.5	-2.720	-2.364	-2.62	-4.12	-2.36	-2.787
14	-2.958	-3.398	-3.23	-4.25	-3.58	-3.09	-3.156	-2.759	-3.09	-4.25	-2.76	-3.301
15	-2.631	-3.116	-2.83	-3.31	-3.53	-2.64	-2.844	-2.431	-2.76	-3.53	-2.43	-2.915
16	-1.349	-1.820	-1.55	-1.44	-2.44	-1.35	-1.716	-1.140	-1.56	-2.44	-1.14	-1.600
17	0.000	0.000	0	0	-0.36	0	0.000	0.000	0.00	-0.36	0	-0.045
18	0.950	0.775	0.8	1.76	0.24	0.88	0.773	1.292	0.61	0.24	1.76	0.934
19	2.378	2.232	2.34	3.38	1.53	2.33	2.301	2.445	2.10	1.53	3.38	2.367
20	2.866	2.933	2.99	3.68	2.32	2.95	2.967	2.941	2.74	2.32	3.68	2.955
21	3.213	3.323	3.37	3.82	2.64	3.31	3.278	3.405	3.05	2.64	3.82	3.294
22	3.285	3.487	3.53	3.82	2.90	3.35	3.461	3.594	3.23	2.9	3.82	3.429
23	3.331	3.514	3.61	3.79	3.02	3.49	3.500	3.696	3.31	3.02	3.79	3.493
24	3.388	3.561	3.66	3.78	3.01	3.53	3.472	3.769	3.36	3.01	3.78	3.521

HOURLY HEATING & COOLING LOAD DATA

CASE 900 JAN 4

[USE (-) FOR COOLING]

CODENAN	BLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY	US/ITALY	USA	USA	UK	UK-DMU	SPAIN	Belgium/Ul	FINLAND		MIN	MAX	
HOUR	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh	kWh			
1	3.104	3.1	3.39	3.74	2.44	3.21	3.081	3.400	2.94	2.44	3.74	3.183
2	3.199	3.24	3.54	3.90	2.61	3.35	3.203	3.547	3.09	2.61	3.9	3.322
3	3.204	3.28	3.56	3.91	2.62	3.38	3.278	3.573	3.17	2.62	3.91	3.351
4	3.306	3.38	3.61	3.97	2.67	3.45	3.331	3.629	3.22	2.67	3.97	3.417
5	3.367	3.45	3.67	4.01	2.74	3.51	3.417	3.687	3.28	2.74	4.01	3.480
6	3.399	3.5	3.72	4.05	2.80	3.56	3.469	3.747	3.34	2.8	4.05	3.530
7	3.453	3.56	3.76	4.08	2.83	3.61	3.517	3.797	3.38	2.83	4.08	3.575
8	3.376	3.52	3.75	4.02	2.84	3.61	3.464	3.794	3.34	2.84	4.02	3.545
9	2.898	2.97	3.17	3.09	2.64	3.08	2.833	3.168	2.80	2.64	3.17	2.982
10	2.346	2.2	2.32	1.81	2.12	2.35	2.056	2.449	2.10	1.81	2.45	2.206
11	1.398	1.03	0.95	0.11	1.50	1.12	0.793	1.293	0.84	0.11	1.5	1.024
12	0.377	0.23	0.1	0	0.68	0.3	0.037	0.619	0.00	0	0.68	0.293
13	0.000	0	0	0	0.07	0	0.000	0.136	0.00	0	0.14	0.026
14	0.000	0	0	0	0	0	0.000	0.000	0.00	0	0	0.000
15	0.000	0	0	0	0	0	0.000	0.000	0.00	0	0	0.000
16	0.000	0	0	0	0	0	0.000	0.088	0.00	0	0.09	0.011
17	0.124	0	0.28	0	0.03	0.14	0.135	1.198	0.00	0	1.2	0.238
18	0.767	0.74	1.22	0	0.41	0.91	0.764	1.602	0.69	0	1.6	0.801
19	1.306	1.14	1.61	0.26	0.80	1.28	1.199	1.805	1.13	0.26	1.81	1.175
20	1.613	1.43	1.82	1.00	1.07	1.54	1.459	1.943	1.41	1	1.94	1.483
21	1.926	1.7	2.04	1.57	1.27	1.81	1.701	2.121	1.63	1.27	2.12	1.767
22		1.89	2.17	1.96	1.50	2	1.934	2.227	1.83	1.5	2.23	1.978
23	2.221	2.03	2.29	2.27	1.66	2.15	2.092	2.338	1.99	1.66	2.34	2.132
24	2.311	2.19	2.42	2.55	1.75	2.31	2.227	2.458	2.14	1.75	2.55	2.277

FREE-FLOAT CASES HOURLY ANNUAL ZONE TEMPERATURE BIN DATA
CASE 900FF
(USE COLUMN B ONLY)

CODENAM	JIMIN B ONL IBLAST	DOE2.1D	SUNCODE	SERI-RES	ESP	S3PAS	VUB/BRE	TASE	Popolo	RANGE	RANGE	Average
COUNTRY		USA	USA	UK		SPAIN	Belgium/Ul			MIN	MAX	
` '			# HOURS	# HOURS	# HOURS			# HOURS	# HOURS			
-10	0		_	0					0	0	0	0
-9 -8	0			0	0				0	0	0	0
-o -7	0			0	0	0		0	0	0	1	0.13
-6	0			0	0	0			0	0	3	0.63
-5	0		2	0					0	0	4	1.25
-4	1			4	0				4	0	6	3.25
-3	3			2					2	0	7	4.13
-2	5			7	3				5	3	12	7.13
-1 0	6 10			5 18	3 8		13 12		10 14	3 8	18 20	8.38 15.38
1	17			10	6				13	6	20	14.13
2	14			20	18				16	13	20	16.63
3	19			15	18				16	15	25	18.5
4	14			20	17	21	20	24	19	17	24	19.88
5	25			24	18	27	26	27	20	18	30	25.63
6	19			27	22	30			32	22	35	27.63
7	33			28	31	33	29		31	28	45	33
8	34 42			33	30	46			33	30	59 73	42.88
10	54 54			57 53	42 51	61 71	55 57		61 58	42 51	73 118	56.38 69.63
11	72			89	67	116			89	67	134	98.88
12	115			112	90	127	127		117	90	139	123.13
13	137			142	115	157	143		143	115	173	145.13
14	159	158	154	151	156	160	162	183	176	151	183	160.38
15	165			178	172	207	183		172	172	234	191.63
16	198			195	215		234		226	195	274	226.38
17	245			248	244	255			252	244	298	261.25
18	277	350		266	293	315			283	266	350	305
19 20	317 365			332 344	338 387	347 352	356 346		348 360	322 331	356 387	337.5 355.25
21	358			361	398	366			382	334	398	369.88
22	372			376	385				370	329	385	362.25
23	341	370		366	396	357	366		360	348	396	361.63
24	368	381	352	341	380	341	401	338	371	338	401	362.75
25	357	432		397	417	392	404		383	361	432	395.5
26	389			426	455	399			426	373	455	412.75
27	420			418	459	403	465		462	396	465	423.88
28 29	463 419			446 432	445 459	440 396			450 442	390 391	452 459	432.38 415
30	396			432	415	395	398		434	362	422	401.25
31	393			389	406	360			394	335	406	371
32	348			334	369		348		381	322	369	343.5
33	315								333	291	339	317.25
34	321				277	306			275	242	311	288.13
35	303			262	230	256			232	197	262	238.25
36	254				191	217			183	169	217	203.63
37 38	195 175			189 137	164 108				155 103	136 92	189 146	164.75 128.13
38	99			103	71	97			72	92 71	146	90.88
40	66			71	37	57	48		38	35	90	57.88
41	32			35			22		13	15	58	30.13
42	25								1	0	36	15.63
43	5			5	0	1	2	1	0	0	18	4
44	0									0	5	0.63
45	0								0	0	0	0
46	0									0	0	0
47 48	0									0	0	0
48	0									0	0	0
50	0									0	0	0
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LOW MASS QUALIFICATION TESTS

ANNUJAI	HEATING [MWH]	

ANNUAL HEATING [MWH]														
	ESP	BLAST		SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
610-600	0.059	0.033	0.077	0.054	0.024	0.089	0.098	0.021	0.035	0.021	0.098	0.057	0	-
620-600	0.317	0.276	0.235	0.328	0.138	0.682	0.201	0.366	0.225	0.138	0.682	0.318	0	-
630-620	0.437	0.310	0.525	0.329	0.267	0.531	0.551	1.290	0.403	0.267	0.551	0.530	0	-
640-600	-1.545	-1.885	-2.166	-1.971	-1.793	-1.817	-1.829	-2.053	-1.812	-2.166	-1.545	-1.882	0	-
ANNUAL C	COOLING [M	WH]												
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
610-600	-2.222	-1.582	-2.227	-1.830	-2.186	-1.728	-1.891	-1.272	-1.478	-2.227	-1.272	-1.867	0	-
620-600	-2.720	-2.341	-2.745	-2.645	-2.960	-2.481	-2.591	-2.427	-2.155	-2.960	-2.341	-2.614	×	30.1%
630-620	-1.288	-0.984	-1.845	-1.140	-1.303	-1.522	-1.485	-2.630	-1.553	-1.845	-0.984	-1.525	0	-
640-600	-0.185	-0.250	-0.320	-0.252	-0.153	-0.245	-0.246	-0.270	-0.286	-0.320	-0.153	-0.240	0	-
650-600	-1.321	-1.293	-1.284	-1.384	-1.419	-1.404	-1.373	-1.322	-1.424	-1.419	-1.284	-1.350	×	-4.0%
PEAK HEA	PEAK HEATING [KW]													
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
610-600	0.000	0.001	-0.011	0.000	-0.001	0.000	-0.008	0.000	0.000	-0.011	0.000	-0.002	×	0.3%
620-600	0.154	0.001	0.001	0.019	-0.001	0.240	-0.008	0.025	0.006	-0.008	0.240	0.054	0	-
630-620	0.001	0.000	-0.021	0.003	0.000	0.001	0.000	0.000	0.001	-0.021	0.003	-0.002	0	-
640-600	1.795	1.546	1.898	2.272	3.771	2.310	1.792	2.600	2.084	1.546	2.600	2.248	0	-
PEAK CO	OLING [KW]													
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
610-600	-0.525	-0.141	-0.592	-0.456	-0.336	-0.116	-0.811	-0.666	-0.227	-0.811	-0.116	-0.455	0	-
620-600	-2.560	-1.890	-2.226	-2.234	-2.592	-1.989	-2.211	-1.716	-2.109	-2.560	-1.716	-2.177	0	-
630-620	-0.562	-0.371	-0.842	-0.477	-0.559	-0.632	-0.667	-1.550	-0.954	-0.842	-0.371	-0.707	×	-23.8%
640-600	-0.033	-0.073	-0.080	-0.051	-0.014	-0.036	-0.044	-0.041	-0.059	-0.080	-0.014	-0.047	0	-
650-600	-0.163	-0.134	-0.140	-0.156	-0.093	-0.143	-0.108	-0.133	-0.165	-0.163	-0.108	-0.134	×	-2.8%
HIGH MAS	HIGH MASS QUALIFICATION TESTS													

	S QUALIFIC		STS											
ANNOALT	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX	· · · · · · · · · · · · · · · · · · ·		
900-600	-3.126	-3,163	-3.837	-3.329	-3.608	-3.152	-3.217	-3.321	-3.195	-3.837	-3.126	-3.344	0	-
910-900	0.405	0.252	0.382	0.277	0.294	0.333	0.442	0.179	0.224	0.179	0.442	0.321	0	-
920-900	2.143	2.142	2.383	2.196	2.070	2.505	2.121	2.259	2.028	2.070	2.505	2.227	×	-9.7%
930-920	0.830	0.595	1.080	0.662	0.670	0.933	0.964	2.006	0.800	0.595	1.080	0.968	0	-
940-900	-0.377	-0.589	-0.633	-0.666	-0.577	-0.551	-0.575	-0.718	-0.519	-0.718	-0.377	-0.586	0	-
960-900	1.141	1.054	1.056	0.987	0.863	1.213	1.718	0.775	1.045	0.775	1.718	1.101	0	-
990-900	1.052	1.838	1.553	1.075	2.336	2.571		1.772	2.156	1.052	2.571	1.742	0	-
ANNUAL C	COOLING [M													
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
900-600	-4.005	-3.833	-4.624	-4.113	-4.549	-3.920	-4.007	-4.179	-3.981	-4.624	-3.833	-4.154	0	-
910-900	-1.311	-1.067	-1.479	-1.293	-1.561	-1.144	-1.159	-0.832	-1.006	-1.561	-0.832	-1.231	0	-
920-900	-0.292	0.016	-0.015		-0.323	-0.115	-0.067	0.014	0.204	-0.323	0.016	-0.126	×	55.4%
930-920	-0.801	-0.682	-1.174	-0.770	-0.854	-1.018	-1.002	-1.719	-1.075	-1.174	-0.682	-1.003	0	-
940-900	-0.053	-0.064	-0.115	-0.129	-0.174	-0.083	-0.102	-0.083		-0.174	-0.053	-0.100	0	-
950-900	-1.745	-2.074	-1.917		-2.826	-2.021	-1.924	-1.828		-2.826	-1.745	-2.072	0	-
960-900	-1.644	-1.934	-2.027	-2.362	-2.697	-1.929	-2.074	-1.813		-2.697	-1.644	-2.060	0	-
990-900	-1.131	-0.960	-0.614	-1.778	-2.701	-1.956		-1.211	-1.795	-2.701	-0.614	-1.479	0	-
PEAK HEA	ATING [KW]													
	ESP	BLAST		SRES/SUN		S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
900-600	-0.587	-0.487	-0.488			-0.429	-0.414	-0.557		-0.587	-0.414	-0.461	0	-
910-900	0.008	0.003	0.007	0.004	0.002	0.010	0.019	0.004		0.003	0.019	0.007	×	-12.5%
920-900	0.458	0.250	0.248	0.253	0.075	0.421	0.192	0.264		0.192	0.458	0.270	0	-
930-920	0.047	0.029	0.027	0.029		0.035	0.036	0.127		0.027	0.127	0.042	×	-0.1%
940-900	1.130	1.575	2.108			2.509	1.606	2.631		1.130	2.631	2.470	0	-
960-900	-0.440	-0.702	-0.830		-1.185	-0.756	-0.995	-1.018		-1.018	-0.440	-0.853	0	-
990-900	-0.081	0.281	-0.130	-0.079	-0.343	0.191		0.499	-0.282	-0.343	0.499	0.048	0	-
PEAK COO	OLING [KW]													
	ESP	BLAST		SRES/SUN		S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
900-600	-3.306	-2.810	-3.198			-2.952	-2.919	-3.355		-3.355	-2.810	-3.018	0	-
910-900	-0.992	-0.655	-1.122		-0.928	-0.548	-0.775	-0.310		-1.122	-0.310	-0.741	0	-
920-900	-0.503	-0.222	-0.349	-0.384	-1.124	-0.263	-0.517	0.048		-0.517	0.048	-0.414	0	-
930-920	-0.512	-0.387	-0.721	-0.407	-0.574	-0.585	-0.552	-1.201	-0.760	-0.721	-0.387	-0.617	×	-11.5%
940-900	0.000	0.000	0.000		0.000	0.000	0.000	0.000						
950-900	-0.855	-0.534	-0.794	-0.701	-1.053	-0.657	-0.881	-0.590		-0.881	-0.534	-0.758	0	-
960-900	-1.935	-2.011	-2.401	-2.501	-3.595	-2.155	-2.189	-2.054		-2.401	-1.935	-2.355	0	-
990-900	-0.466	-0.243	-0.022	-1.052	-1.376	-1.475		-0.678	-1.173	-1.475	-0.022	-0.759	0	-

LOW MASS PRIMITIVE DIAGNOSTIC TESTS

ANN	ANNUAL HEATING [MWH]									
		ESP	BLAS							

/ (1 41 40 / (L)	HEATING [M	ИНJ												
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
200-195	1.085	1.664			1.715	1.663	1.524	1.961	1.781	1.085	1.961	1.602	0	_
210-200	1.204	0.000			0.111	0.099	0.159	0.085	0.893	0.000	1.204	0.276	0	_
220-215	1.397	0.000			0.111	0.141	0.167	0.118	1.018	0.000	1.397	0.335	0	
		0.656			1.260		0.735			0.000				-
215-200	0.295					0.645		0.437	0.737		1.260	0.671	0	-
220-210	0.488	0.656			1.333	0.687	0.743	0.470	0.863	0.470	1.333	0.730	0	-
230-220	3.432	3.525	3.456	3.531	3.522	3.615	3.543	3.527	2.448	3.432	3.615	3.519	×	-537.5%
240-220	-1.295	-1.206	-1.339	-1.333	-1.341	-1.228	-1.221	-1.203	-1.319	-1.341	-1.203	-1.271	0	-
250-220	-2.193	-1.476	-1.763	-1.494	-1.474	-1.448	-1.533	-1.699	-1.757	-2.193	-1.448	-1.635	0	-
270-220	-2.434	-2.285		-2.620	-2.207	-2.350	-2.250	-1.948	-3.079	-2.620	-1.948	-2.299	×	-68.3%
280-270	0.165	0.195		0.455	0.228	0.291	0.232	0.352	0.319	0.165	0.455	0.274	0	_
320-270	-0.651	-0.721		-0.718	-0.779	-0.729	-0.699	-0.649	-0.769	-0.779	-0.649	-0.707	0	_
290-270	0.067	0.029		0.057	0.022	0.088	0.085	0.020	0.039	0.020	0.088	0.053	0	_
300-270	0.251	0.023		0.207	0.022	0.590	0.003	0.297	0.162	0.020	0.590	0.230	0	
310-300	0.460	0.147		0.248	0.201	0.492	0.486		0.382	0.201	1.349	0.498	0	-
				0.240	0.201	0.492	0.400	1.349	0.302	0.201	1.349	0.490	Ü	-
ANNUAL C	COOLING [M		DOE	00000000	OFDIDEO	00040	TDNOVO	TAOE		DANIOE	DANIOE	•	D	[E D.(.)
	ESP	BLAST		SRES/SUN		S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
200-195	0.156	0.192			0.211	0.203	0.241	0.190	0.226	0.156	0.241	0.199	0	-
210-200	-0.408	0.000			-0.018	-0.016	-0.048	0.008	-0.235	-0.408	0.008	-0.080	0	-
220-215	-0.453	0.000			-0.018	-0.015	-0.028	0.012	-0.279	-0.453	0.012	-0.084	0	-
215-200	0.069	0.088			0.154	0.072	0.050	0.038	0.079	0.038	0.154	0.078	0	_
220-210	0.024	0.088			0.154	0.073	0.069	0.042	0.036	0.024	0.154	0.075	0	_
230-220	0.024	0.000	0.293	0.304	0.104	0.286	0.303	0.302	0.205	0.024	0.304	0.292	×	-176.3%
														-170.376
240-220	0.229	0.371	0.261	0.412	0.411	0.374	0.377	0.362	0.284	0.229	0.412	0.350	0	-
250-220	3.027	1.844	1.778	2.097	2.096	1.752	1.947	2.697	2.664	1.752	3.027	2.155	0	-
270-220	7.342	7.969		8.804	9.515	8.061	8.027	8.031	8.076	7.342	9.515	8.250	0	-
280-270	-2.655	-2.775		-3.120	-3.236	-2.990	-3.003	-2.457	-2.901	-3.236	-2.457	-2.891	0	-
320-270	-2.467	-2.764		-3.055	-3.046	-2.881	-2.808	-3.051	-2.795	-3.055	-2.467	-2.867	0	-
290-270	-2.324	-1.659		-1.910	-2.261	-1.892	-2.065	-1.283	-1.599	-2.324	-1.283	-1.913	0	-
300-270	-3.226	-2.834		-3.106	-3.250	-2.946	-3.043	-2.933	-2.879	-3.250	-2.834	-3.048	0	_
310-300	-1.570	-1.266		-1.389	-1.629	-1.974	-1.994	-3.310	-1.865	-3.310	-1.266	-1.876	0	_
PEAK HEA				1.000			1.001		1.000	0.0.0	00			
		BLAST	DOE2	SRES/SLIN	SERIRES	S3PAS	TRNSYS	TASE	Ponolo	RANGE	RANGE	Average	Pass	Error Rate
	ESP	BLAST		SRES/SUN		S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	ESP UK-DMU	US/IT	DOE2 USA	SRES/SUN USA	UK-BRE	SPAIN	BEL/UK	FINLAND	·	MIN	MAX	Ŭ		Error Rate
CASES 200-195	ESP UK-DMU 0.647	US/IT 0.787			UK-BRE 0.812	SPAIN 0.778	BEL/UK 0.784	FINLAND 1.119	0.825	MIN 0.647	MAX 1.119	0.821	0	-
CASES 200-195 210-200	ESP UK-DMU 0.647 0.050	US/IT 0.787 0.000			UK-BRE 0.812 0.030	SPAIN 0.778 0.021	BEL/UK 0.784 0.011	FINLAND 1.119 -0.057	0.825 0.178	MIN 0.647 -0.057	MAX 1.119 0.050	0.821 0.009	о х	- 119.2%
CASES 200-195 210-200 220-215	ESP UK-DMU 0.647 0.050 0.080	US/IT 0.787 0.000 0.000			UK-BRE 0.812 0.030 0.059	SPAIN 0.778 0.021 0.041	BEL/UK 0.784 0.011 0.042	FINLAND 1.119 -0.057 0.062	0.825 0.178 0.189	MIN 0.647 -0.057 0.000	MAX 1.119 0.050 0.080	0.821 0.009 0.047	0 X X	-
CASES 200-195 210-200 220-215 215-200	ESP UK-DMU 0.647 0.050 0.080 0.136	US/IT 0.787 0.000 0.000 0.307			UK-BRE 0.812 0.030 0.059 0.603	SPAIN 0.778 0.021 0.041 0.308	0.784 0.011 0.042 0.325	FINLAND 1.119 -0.057 0.062 0.076	0.825 0.178 0.189 0.339	MIN 0.647 -0.057 0.000 0.076	MAX 1.119 0.050 0.080 0.603	0.821 0.009 0.047 0.293	о х	- 119.2%
CASES 200-195 210-200 220-215	ESP UK-DMU 0.647 0.050 0.080	US/IT 0.787 0.000 0.000			UK-BRE 0.812 0.030 0.059	SPAIN 0.778 0.021 0.041	BEL/UK 0.784 0.011 0.042	FINLAND 1.119 -0.057 0.062	0.825 0.178 0.189	MIN 0.647 -0.057 0.000	MAX 1.119 0.050 0.080	0.821 0.009 0.047	0 X X	- 119.2%
CASES 200-195 210-200 220-215 215-200	ESP UK-DMU 0.647 0.050 0.080 0.136	US/IT 0.787 0.000 0.000 0.307			UK-BRE 0.812 0.030 0.059 0.603	SPAIN 0.778 0.021 0.041 0.308	0.784 0.011 0.042 0.325	FINLAND 1.119 -0.057 0.062 0.076	0.825 0.178 0.189 0.339	MIN 0.647 -0.057 0.000 0.076	MAX 1.119 0.050 0.080 0.603	0.821 0.009 0.047 0.293	0 x x	- 119.2%
CASES 200-195 210-200 220-215 215-200 220-210	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519	US/IT 0.787 0.000 0.000 0.307 0.307	USA 1.529	USA 1.584	UK-BRE 0.812 0.030 0.059 0.603 0.632	SPAIN 0.778 0.021 0.041 0.308 0.328	BEL/UK 0.784 0.011 0.042 0.325 0.356	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587	0.825 0.178 0.189 0.339 0.350 1.082	MIN 0.647 -0.057 0.000 0.076 0.166	MAX 1.119 0.050 0.080 0.603 0.632 1.811	0.821 0.009 0.047 0.293 0.331 1.609	0 X X 0	- 119.2% 135.8% -
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180	USA 1.529 -0.183	1.584 -0.200	UK-BRE 0.812 0.030 0.059 0.603 0.632 1.584 -0.200	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187	0.825 0.178 0.189 0.339 0.350 1.082 -0.183	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180	0.821 0.009 0.047 0.293 0.331 1.609 -0.188	0 x x	- 119.2% 135.8% -
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180 -0.001	USA 1.529	1.584 -0.200 0.000	UK-BRE 0.812 0.030 0.059 0.603 0.632 1.584 -0.200 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001	0	- 119.2% 135.8% - - -149.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180 -0.001	USA 1.529 -0.183	1.584 -0.200 0.000 -0.025	UK-BRE 0.812 0.030 0.059 0.603 0.632 1.584 -0.200 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.218	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001	0	- 119.2% 135.8% -
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180 -0.001 -0.003	USA 1.529 -0.183	1.584 -0.200 0.000 -0.025 0.015	UK-BRE 0.812 0.030 0.059 0.603 1.584 -0.200 0.000 0.005	\$PAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000 0.000	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.005 0.218	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026	0	-119.2% 135.8% -149.8% -25.3%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 320-270	ESP UK-DMU 0.647 0.050 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180 -0.001 -0.003 0.001	USA 1.529 -0.183	1.584 -0.200 0.000 -0.025 0.015 -0.009	UK-BRE 0.812 0.030 0.059 0.603 1.584 -0.200 0.000 0.005 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000 0.000 0.000	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.218 0.021	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006	0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 320-270 290-270	ESP UK-DMU 0.647 0.050 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180 -0.001 -0.003 0.001 -0.002 0.000	USA 1.529 -0.183	1.584 -0.200 0.000 -0.025 0.015 -0.009	UK-BRE 0.812 0.030 0.059 0.603 0.632 1.584 -0.200 0.000 0.005 0.000 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 0.008 0.001 0.000	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000 0.000 0.000 0.000 -0.008	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009 -0.008	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.218 0.021 0.000	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006 -0.002	0	- 119.2% 135.8% - - -149.8% - - -25.3% - - 0.1%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 300-270 300-270	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180 -0.001 -0.003 0.001 -0.002 0.000	USA 1.529 -0.183	1.584 -0.200 0.000 -0.025 0.015 -0.009 0.000	UK-BRE 0.812 0.030 0.059 0.603 0.632 1.584 -0.200 0.000 0.005 0.000 0.000 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.000	BEL/UK 0.784 0.011 0.042 0.325 0.356 -0.183 0.000 0.000 0.000 -0.008 -0.008	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009 -0.008	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.218 0.021 0.000 0.000	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006 -0.002 -0.001	0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 320-270 300-270 310-300	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151	US/IT 0.787 0.000 0.000 0.307 0.307 1.704 -0.180 -0.001 -0.003 0.001 -0.002 0.000	USA 1.529 -0.183	1.584 -0.200 0.000 -0.025 0.015 -0.009	UK-BRE 0.812 0.030 0.059 0.603 0.632 1.584 -0.200 0.000 0.005 0.000 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 0.008 0.001 0.000	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000 0.000 0.000 0.000 -0.008	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009 -0.008	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.218 0.021 0.000	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006 -0.002	0	- 119.2% 135.8% - - -149.8% - - -25.3% - - 0.1%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 320-270 300-270 310-300	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151 0.001 OLING [KW]	US/IT 0.787 0.000 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.002 0.000 -0.001 0.001	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 0.015 -0.009 0.000 0.015 -0.013	UK-BRE 0.812 0.030 0.059 0.603 1.584 -0.200 0.005 0.000 0.005 0.000 0.000 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.000 0.259 0.000	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000 0.000 0.000 0.000 -0.008 -0.008	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009 -0.008 -0.008 -0.008	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.003 0.021 0.000 0.000 0.000 0.000 0.000	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 -0.002 -0.001	0 x x 0 0 x 0 0 x 0 0 x 0 0 0 x 0 0 0 0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 320-270 300-270 310-300 PEAK COO	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151 0.001 OLING [KW] ESP	US/IT 0.787 0.000 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.002 0.000 -0.001 0.001	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 -0.015 -0.009 0.010 -0.013 SRES/SUN	UK-BRE 0.812 0.030 0.059 0.603 1.584 -0.200 0.005 0.005 0.000 0.000 0.000 0.000 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.259 0.000	BEL/UK 0.784 0.011 0.042 0.325 0.325 0.183 0.000 0.000 0.000 0.000 0.000 0.000 0.000 TRNSYS	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001 TASE	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.008 -0.008 -0.013	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.005 0.218 0.021 0.000 0.000 0.259 0.001 RANGE	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006 -0.002 -0.001	0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 250-220 270-220 280-270 320-270 310-300 PEAK COC	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151 0.001 OLING [KW]	US/IT 0.787 0.000 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.002 0.000 -0.001 0.001	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 0.015 -0.009 0.000 0.015 -0.013	UK-BRE 0.812 0.030 0.059 0.603 0.632 1.584 -0.200 0.000 0.005 0.000 0.000 0.000 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.000 0.259 0.000	BEL/UK 0.784 0.011 0.042 0.325 0.356 1.556 -0.183 0.000 0.000 0.000 0.000 -0.008 -0.008	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009 -0.008 -0.008 -0.008	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.003 0.021 0.000 0.000 0.000 0.000 0.000	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 -0.002 -0.001	0 x x 0 0 x 0 0 x 0 0 x 0 0 0 x 0 0 0 0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 320-270 300-270 310-300 PEAK COO	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151 0.001 OLING [KW] ESP	US/IT 0.787 0.000 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.002 0.000 -0.001 0.001	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 -0.015 -0.009 0.010 -0.013 SRES/SUN	UK-BRE 0.812 0.030 0.059 0.603 1.584 -0.200 0.005 0.005 0.000 0.000 0.000 0.000 0.000	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.259 0.000	BEL/UK 0.784 0.011 0.042 0.325 0.325 0.183 0.000 0.000 0.000 0.000 0.000 0.000 0.000 TRNSYS	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001 TASE	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.008 -0.008 -0.013	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.005 0.218 0.021 0.000 0.000 0.259 0.001 RANGE	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 -0.002 -0.001	0 x x 0 0 x 0 0 x 0 0 x 0 0 0 x 0 0 0 0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 250-220 270-220 280-270 320-270 310-300 PEAK COC	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151 0.001 0.UING [KW]	US/IT 0.787 0.000 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.002 0.000 -0.001 0.001 BLAST US/IT	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 -0.015 -0.009 0.010 -0.013 SRES/SUN	UK-BRE	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.0001 0.000 0.259 0.000 S3PAS SPAIN	BEL/UK 0.784 0.011 0.042 0.325 0.325 0.183 0.000 0.000 0.000 0.000 0.000 0.000 TRNSYS BEL/UK	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001 TASE FINLAND 0.336	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003 0.001	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.0000 -0.008 -0.008 -0.013 RANGE MIN	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.218 0.021 0.000 0.000 0.259 0.001 RANGE MAX	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.006 -0.002 -0.001 0.664 -0.001	0 x x 0 0 x 0 0 x 0 0 0 x 0 0 0 0 0 0 0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 250-220 270-220 280-270 320-270 310-300 PEAK COCCASES 200-195	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.151 0.001 OLING [KW] ESP UK-DMU 0.212 -0.387	US/IT 0.787 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.003 0.001 -0.002 0.0000 -0.001 US/IT US/IT 0.289	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 -0.015 -0.009 0.010 -0.013 SRES/SUN	UK-BRE	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.000 S3PAS SPAIN 0.306 -0.008	BEL/UK 0.784 0.011 0.042 0.325 0.325 0.356 1.556 -0.183 0.000 0.000 0.000 0.000 0.000 TRNSYS BEL/UK 0.309 -0.003	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001 TASE FINLAND 0.336 0.016	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003 0.001 Popolo 0.335 -0.144	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.008 -0.008 -0.013 RANGE MIN 0.212	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.218 0.021 0.000 0.005 0.259 0.001 RANGE MAX	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006 -0.002 -0.001 Average	0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 270-220 280-270 320-270 300-270 310-300 PEAK COC CASES 200-195 210-200 220-215	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 -0.002 0.000 0.151 0.001 OLING [KW] ESP UK-DMU 0.212 -0.387 -0.447	US/IT 0.787 0.000 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.002 0.000 -0.001 BLAST US/IT 0.289 0.000 0.000	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 -0.015 -0.009 0.010 -0.013 SRES/SUN	UK-BRE	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.259 0.000 S3PAS SPAIN 0.306 -0.008 -0.008	BEL/UK 0.784 0.011 0.042 0.325 0.325 0.356 1.556 -0.183 0.000 0.000 0.000 -0.008 -0.008 0.000 TRNSYS BEL/UK 0.003 -0.003	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 1.000 TASE FINLAND 0.336 0.016 0.021	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003 0.001 Popolo 0.335 -0.144 -0.173	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.002 0.000 -0.008 -0.008 -0.013 RANGE MIN 0.212 -0.387 -0.447	MAX 1.119 0.050 0.0803 0.632 1.811 -0.180 0.021 0.000 0.000 0.259 0.001 RANGE MAX 0.336 0.016 0.021	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 -0.002 -0.001 0.064 -0.001 Average	0 x x 0 0 x 0 0 x 0 0 0 0 0 0 0 0 0 0 0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 280-270 300-270 310-300 PEAK COC CASES 200-195 210-200 220-215 215-200	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.002 0.000 0.151 0.001 OLING [KW] ESP UK-DMU 0.212 -0.387 -0.447 0.144	US/IT 0.787 0.000 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.002 0.000 -0.001 BLAST US/IT 0.289 0.000 0.000 0.149	1.529 -0.183 0.000	1.584 -0.200 0.000 -0.025 -0.015 -0.009 0.010 -0.013 SRES/SUN	UK-BRE	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.000 0.000 0.259 0.000 S3PAS SPAIN 0.306 -0.008 -0.001 0.111	BEL/UK 0.784 0.011 0.042 0.325 0.325 0.356 1.556 -0.183 0.000 0.000 0.000 -0.008 -0.008 TRNSYS BEL/UK 0.309 -0.035 -0.035 0.000	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 1.000 0.032 0.001 TASE FINLAND 0.336 0.016 0.021 0.066	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003 0.001 Popolo 0.335 -0.144 -0.173 0.127	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.0025 0.000 -0.008 -0.008 -0.013 RANGE MIN 0.212 -0.347 -0.447 0.066	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.021 0.000 0.000 0.025 0.001 RANGE MAX 0.336 0.021 0.021 0.036	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006 -0.002 -0.001 0.064 -0.001 Average 0.293 -0.070 0.073 0.132	0 x x 0 0 0 x 0 0 0 0 0 0 0 0 0 0 0 0 0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 250-220 270-220 280-270 300-270 310-300 PEAK COO CASES 200-195 210-200 220-215 215-200 220-215	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.182 -0.001 -0.004 0.001 0.001 0.001 0.UING [KW] ESP UK-DMU 0.212 -0.387 -0.447 0.144 0.084	US/IT 0.787 0.000 0.000 0.307 1.704 0.003 0.001 0.001 0.001 0.002 0.0000 0.0001 US/IT US/IT 0.289 0.000 0.0000 0.149 0.149	1.529 -0.183 0.000 DOE2 USA	1.584 -0.200 0.000 -0.025 0.015 -0.000 0.015 -0.013 SRES/SUN USA	UK-BRE	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.259 0.000 S3PAS SPAIN 0.306 -0.008 -0.001 0.111	BEL/UK 0.784 0.011 0.042 0.325 0.325 0.326 1.556 -0.183 0.000 0.000 0.000 -0.008 -0.008 BEL/UK 0.309 -0.033 -0.003 -0.003 -0.003	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001 TASE FINLAND 0.336 0.016 0.021 0.066 0.071	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003 0.001 Popolo 0.335 -0.144 -0.173 0.127 0.099	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.008 -0.008 -0.013 RANGE MIN 0.212 -0.387 -0.447 0.066 0.071	MAX 1.119 0.050 0.080 0.603 0.632 1.811 -0.180 0.005 0.210 0.000 0.259 0.001 RANGE MAX 0.336 0.016 0.021 0.236 0.241	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.006 -0.002 -0.001 0.664 -0.001 Average 0.293 -0.073 0.132	0 x x 0 0 x 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-119.2% 135.8%
CASES 200-195 210-200 220-215 215-200 220-210 230-220 240-220 250-220 280-270 320-270 300-270 310-300 PEAK COC CASES 200-195 210-200 220-215 215-200 220-210 230-220	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.012 -0.001 -0.002 0.000 0.151 0.001 DLING [KW] ESP UK-DMU 0.212 -0.387 -0.447 0.144 0.084 0.094	US/IT 0.787 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.003 0.001 -0.002 0.001 0.001 0.001 US/IT 0.289 0.000 0.000 0.149 0.149 0.480	1.529 -0.183 0.000 DOE2 USA	1.584 -0.200 -0.000 -0.025 -0.015 -0.009 -0.015 -0.013 SRES/SUN USA	UK-BRE	SPAIN 0.778 0.021 0.041 0.308 0.328 1.811 -0.189 -0.007 -0.008 0.001 0.000 0.000 0.259 0.000 S3PAS SPAIN 0.306 -0.008 -0.001 0.111 0.1118 0.485	BEL/UK 0.784 0.011 0.042 0.325 0.336 1.556 -0.183 0.000 0.000 0.000 0.000 0.000 TRNSYS BEL/UK 0.309 -0.003 -0.003 -0.003 0.0111 0.529	FINLAND 1.119 -0.057 0.062 0.076 0.195 1.587 -0.187 0.005 0.218 0.021 -0.003 0.000 0.032 0.001 TASE FINLAND 0.336 0.016 0.021 0.066 0.071 0.536	0.825 0.178 0.189 0.339 0.350 1.082 -0.183 0.000 -0.086 0.002 -0.004 0.000 0.003 0.001 Popolo 0.335 -0.144 -0.173 0.127 0.099 0.363	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009 -0.008 -0.013 RANGE MIN 0.212 -0.387 -0.447 0.066 0.071 0.480	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.005 0.218 0.021 0.000 0.005 0.259 0.001 RANGE MAX 0.336 0.016 0.021 0.236 0.021 0.236 0.021	0.821 0.009 0.047 0.293 0.331 1.609 -0.010 0.026 0.006 -0.002 -0.001 0.064 -0.001 Average 0.293 -0.070 -0.073 0.132 0.129 0.132	Name	-119.2% 135.8%
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CASES 200-195 215-200 220-210 230-220 280-270 220-215 215-200 220-270 220-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 200-270 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200-270 200-270 200-270 200-270 200-270 200-270	ESP UK-DMU 0.647 0.050 0.080 0.136 0.166 1.519 -0.012 -0.001 -0.002 0.000 0.151 0.001 DLING [KW] ESP UK-DMU 0.212 -0.387 -0.447 0.144 0.084 0.499 0.179 2.800 0.179 2.800 5.796 -1.912 -0.655	US/IT 0.787 0.000 0.000 0.307 1.704 -0.180 -0.001 -0.003 0.001 -0.002 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 0.001 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-0.623	MIN 0.647 -0.057 0.000 0.076 0.166 1.519 -0.200 -0.007 -0.025 0.000 -0.009 -0.008 -0.013 RANGE MIN 0.212 -0.387 -0.447 0.066 0.071 0.480 0.179 1.043 5.475 -2.2208 -0.726	MAX 1.119 0.050 0.080 0.603 1.811 -0.180 0.005 0.218 0.021 0.000 0.005 0.259 0.001 RANGE MAX 0.336 0.016 0.021 0.236 0.241 0.536 0.240 0.536 0.240 0.536 0.240 0.536 0.240 0.536 0.240 0.536	0.821 0.009 0.047 0.293 0.331 1.609 -0.188 -0.001 0.026 0.006 -0.002 -0.001 0.064 -0.001 Average 0.293 -0.070 -0.073 0.132 0.129 0.515 0.186 1.952 5.7952 -1.9952 -0.659	Pass O	-119.2% 135.8%

LOW MASS REALISTIC DIAGNOSTIC TESTS

ANNUJAI	HEATING [MWH]	

annual f	HEATING [M	WHJ												
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
400-395	1.916	2.276	2.935	2.767	2.772	2.320	2.311	2.487	2.980	1.916	2.935	2.473	×	4.4%
410-400	1.696	1.798	1.736	1.760	1.761	1.732	1.770	1.759	1.218	1.696	1.798	1.752	×	-468.3%
420-410	-1.298	-1.263	-1.355	-1.361	-1.361	-1.245	-1.239	-1.222	-1.333	-1.361	-1.222	-1.293	0	-
430-420	-1.869	-1.122	-1.324	-1.187	-1.187	-1.112	-1.197	-1.353	-1.343	-1.869	-1.112	-1.294	0	-
600-430	-1.133	-1.715	-2.118	-1.952	-1.590	-1.780	-1.628	-1.148	-2.183	-2.118	-1.133	-1.633	×	-6.6%
440-600	0.153	0.214		0.426	0.215	0.270	0.226	0.280	0.272	0.153	0.426	0.255	0	-
ANNUAL COOLING [MWH]														
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
400-395	0.000	0.029	0.002	0.045	0.044	0.032	0.034	0.033	0.004	0.000	0.045	0.027	0	-
410-400	0.000	0.019	0.008	0.023	0.026	0.021	0.022	0.021	0.007	0.000	0.026	0.018	0	-
420-410	0.011	0.088	0.041	0.105	0.104	0.091	0.090	0.078	0.044	0.011	0.105	0.076	0	-
430-420	0.531	0.470	0.371	0.515	0.496	0.409	0.460	0.732	0.746	0.371	0.732	0.498	×	4.0%
600-430	5.595	5.816	6.657	6.574	7.280	5.929	5.875	5.903	5.610	5.595	7.280	6.204	0	-
440-600	-2.170	-2.261		-2.604	-2.760	-2.500	-2.517	-2.094	-2.302	-2.760	-2.094	-2.415	0	-
PEAK HEA	ATING [KW]													
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
400-395	0.805	1.071	1.148	1.310	1.318	1.079	1.115	1.250	1.225	0.805	1.318	1.137	0	-
410-400	0.758	0.844	0.757	0.792	0.792	0.885	0.778	0.794	0.541	0.757	0.885	0.800	×	-168.9%
420-410			0.707											
00	-0.182	-0.180	-0.183	-0.200	-0.200	-0.183	-0.183	-0.188	-0.183	-0.200	-0.180	-0.187	0	-
430-420	-0.182 -0.001			-0.200 0.000	-0.200 0.000	-0.183 0.000		-0.188 0.011	-0.183 0.000	-0.200 -0.001	-0.180 0.011	-0.187 0.001	0	-
		-0.180	-0.183											- - -24.3%
430-420	-0.001	-0.180 0.000	-0.183 0.000	0.000	0.000	0.000	0.000 0.000	0.011	0.000	-0.001	0.011	0.001	0	- -24.3% -
430-420 600-430 440-600	-0.001 -0.005	-0.180 0.000 -0.004	-0.183 0.000	0.000 -0.029	0.000 0.006	0.000 -0.007	0.000 0.000	0.011 0.217	0.000 -0.089	-0.001 -0.029	0.011 0.217	0.001 0.022	о х	
430-420 600-430 440-600	-0.001 -0.005 0.002	-0.180 0.000 -0.004	-0.183 0.000 -0.005	0.000 -0.029	0.000 0.006 -0.001	0.000 -0.007	0.000 0.000	0.011 0.217	0.000 -0.089	-0.001 -0.029	0.011 0.217	0.001 0.022	о х	
430-420 600-430 440-600	-0.001 -0.005 0.002 OLING [KW]	-0.180 0.000 -0.004 0.002	-0.183 0.000 -0.005	0.000 -0.029 0.019	0.000 0.006 -0.001	0.000 -0.007 0.004	0.000 0.000 0.000 TRNSYS	0.011 0.217 0.022	0.000 -0.089 0.005	-0.001 -0.029 -0.001	0.011 0.217 0.022	0.001 0.022 0.007	o x	-
430-420 600-430 440-600 PEAK CO	-0.001 -0.005 0.002 OLING [KW] ESP	-0.180 0.000 -0.004 0.002	-0.183 0.000 -0.005 DOE2	0.000 -0.029 0.019 SRES/SUN	0.000 0.006 -0.001 SERIRES	0.000 -0.007 0.004 S3PAS	0.000 0.000 0.000 TRNSYS BEL/UK	0.011 0.217 0.022 TASE	0.000 -0.089 0.005	-0.001 -0.029 -0.001 RANGE	0.011 0.217 0.022 RANGE	0.001 0.022 0.007	o x	-
430-420 600-430 440-600 PEAK COO CASES	-0.001 -0.005 0.002 OLING [KW] ESP UK-DMU	-0.180 0.000 -0.004 0.002 BLAST US/IT	-0.183 0.000 -0.005 DOE2 USA	0.000 -0.029 0.019 SRES/SUN USA	0.000 0.006 -0.001 SERIRES UK-BRE	0.000 -0.007 0.004 S3PAS SPAIN	0.000 0.000 0.000 TRNSYS BEL/UK	0.011 0.217 0.022 TASE FINLAND	0.000 -0.089 0.005	-0.001 -0.029 -0.001 RANGE MIN	0.011 0.217 0.022 RANGE MAX	0.001 0.022 0.007 Average	o x o Pass	-
430-420 600-430 440-600 PEAK COO CASES 400-395	-0.001 -0.005 0.002 OLING [KW] ESP UK-DMU 0.000	-0.180 0.000 -0.004 0.002 BLAST US/IT 0.219	-0.183 0.000 -0.005 DOE2 USA 0.265	0.000 -0.029 0.019 SRES/SUN USA 0.272 0.148	0.000 0.006 -0.001 SERIRES UK-BRE 0.291	0.000 -0.007 0.004 S3PAS SPAIN 0.256	0.000 0.000 0.000 TRNSYS BEL/UK 0.251 0.130	0.011 0.217 0.022 TASE FINLAND 0.227 0.138	0.000 -0.089 0.005 Popolo	-0.001 -0.029 -0.001 RANGE MIN 0.000	0.011 0.217 0.022 RANGE MAX 0.291	0.001 0.022 0.007 Average	× · · · Pass	-
430-420 600-430 440-600 PEAK COO CASES 400-395 410-400	-0.001 -0.005 0.002 OLING [KW] ESP UK-DMU 0.000 0.035	-0.180 0.000 -0.004 0.002 BLAST US/IT 0.219 0.118	-0.183 0.000 -0.005 DOE2 USA 0.265 0.148	0.000 -0.029 0.019 SRES/SUN USA 0.272 0.148 0.233	0.000 0.006 -0.001 SERIRES UK-BRE 0.291 0.151	0.000 -0.007 0.004 S3PAS SPAIN 0.256 0.112	0.000 0.000 0.000 TRNSYS BEL/UK 0.251 0.130	0.011 0.217 0.022 TASE FINLAND 0.227 0.138	0.000 -0.089 0.005 Popolo 0.258 0.109	-0.001 -0.029 -0.001 RANGE MIN 0.000 0.035	0.011 0.217 0.022 RANGE MAX 0.291 0.151	0.001 0.022 0.007 Average 0.223 0.122	o x o	Error Rate
430-420 600-430 440-600 PEAK COO CASES 400-395 410-400 420-410	-0.001 -0.005 0.002 OLING [KW] ESP UK-DMU 0.000 0.035 0.223	-0.180 0.000 -0.004 0.002 BLAST US/IT 0.219 0.118 0.224	-0.183 0.000 -0.005 DOE2 USA 0.265 0.148 0.218	0.000 -0.029 0.019 SRES/SUN USA 0.272 0.148 0.233	0.000 0.006 -0.001 SERIRES UK-BRE 0.291 0.151 0.215	0.000 -0.007 0.004 S3PAS SPAIN 0.256 0.112 0.214	0.000 0.000 0.000 TRNSYS BEL/UK 0.251 0.130 0.195 0.861	0.011 0.217 0.022 TASE FINLAND 0.227 0.138 0.211	0.000 -0.089 0.005 Popolo 0.258 0.109 0.234	-0.001 -0.029 -0.001 RANGE MIN 0.000 0.035 0.195	0.011 0.217 0.022 RANGE MAX 0.291 0.151 0.233	0.001 0.022 0.007 Average 0.223 0.122 0.217	Pass o x o	Error Rate
430-420 600-430 440-600 PEAK COO CASES 400-395 410-400 420-410 430-420	-0.001 -0.005 0.002 OLING [KW] ESP UK-DMU 0.000 0.035 0.223 1.235	-0.180 0.000 -0.004 0.002 BLAST US/IT 0.219 0.118 0.224 0.849	-0.183 0.000 -0.005 DOE2 USA 0.265 0.148 0.218	0.000 -0.029 0.019 SRES/SUN USA 0.272 0.148 0.233 0.715	0.000 0.006 -0.001 SERIRES UK-BRE 0.291 0.151 0.215 0.701	0.000 -0.007 0.004 S3PAS SPAIN 0.256 0.112 0.214 0.637	0.000 0.000 0.000 TRNSYS BEL/UK 0.251 0.130 0.195 0.861	0.011 0.217 0.022 TASE FINLAND 0.227 0.138 0.211 1.657	0.000 -0.089 0.005 Popolo 0.258 0.109 0.234 1.216	-0.001 -0.029 -0.001 RANGE MIN 0.000 0.035 0.195 0.637	0.011 0.217 0.022 RANGE MAX 0.291 0.151 0.233 1.657	0.001 0.022 0.007 Average 0.223 0.122 0.217 0.931	o x o Pass	- Error Rate 2.3%

	S DIAGNOS													
AININUAL II	ESP ING [WI	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND	· ·	MIN	MAX			
800-430	-0.561	-0.535	-0.599	-0.567	-0.586	-0.501	-0.560	-0.649	-0.558	-0.649	-0.501	-0.570	0	-
900-800	-3.698	-4.343	-5.356	-4.714	-4.612	-4.431	-4.285	-3.820	-4.820	-5.356	-3.698	-4.407	0	-
900-810	-0.669	-0.836		-1.107	-0.840	-0.992	-0.912	-0.921	-0.844	-1,107	-0.669	-0.897	0	-
910-610	-2.780	-2.944	-3.532	-3.106	-3.338	-2.908	-2.873	-3.163	-3.006	-3.532	-2.780	-3.081	0	-
920-620	-1.300	-1.297	-1.689	-1.461	-1.676	-1.329	-1.297	-1.428	-1.391	-1.689	-1,297	-1.435	0	-
930-630	-0.907	-1.012	-1.134	-1.128	-1.273	-0.927	-0.884	-0.712	-0.994	-1.273	-0.712	-0.997	0	-
940-640	-1.958	-1.867	-2.304	-2.024	-2.392	-1.886	-1.963	-1.986	-1.901	-2.392	-1.867	-2.048	0	-
ANNUAL C	COOLING [M	WH]												
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
800-430	-0.429	-0.393	-0.367	-0.432	-0.462	-0.368	-0.410	-0.550	-0.531	-0.550	-0.367	-0.426	0	-
900-800	2.019	2.376	2.400	2.893	3.193	2.377	2.278	2.274	2.161	2.019	3.193	2.476	0	-
900-810	1.080	1,195		1.454	1.707	1.265	1.294	0.975	1.266	0.975	1.707	1.281	0	-
910-610	-3.094	-3.318	-3.876	-3.576	-3.924	-3.336	-3.275	-3.739	-3.509	-3.924	-3.094	-3.517	0	-
920-620	-1.577	-1.476	-1.894	-1.690	-1.912	-1.554	-1.483	-1.738	-1.622	-1.912	-1.476	-1.666	0	-
930-630	-1.090	-1,174	-1.223	-1.320	-1.463	-1.050	-1.000	-0.827	-1.144	-1.463	-0.827	-1.143	0	-
940-640	-3.873	-3.647	-4.419	-3.990	-4.570	-3.758	-3.863	-3.992	-3.793	-4.570	-3.647	-4.014	0	-
950-650	-4.429	-4.614	-5.257	-4.973	-5.956	-4.537	-4.558	-4.685	-4.465	-5.956	-4.429	-4.876	0	-
PEAK HEA	TING [KW]							•				•		
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
800-430	-0.215	-0.151	-0.141	-0.149	-0.113	-0.142	-0.144	-0.198	-0.162	-0.215	-0.113	-0.157	0	-
900-800	-0.377	-0.340	-0.352	-0.378	-0.107	-0.294	-0.269	-0.142	-0.373	-0.378	-0.107	-0.282	0	-
900-810	-0.129	-0.113		-0.155	-0.034	-0.101	-0.089	-0.166	-0.091	-0.166	-0.034	-0.112	0	-
910-610	-0.579	-0.485	-0.470	-0.494	-0.223	-0.419	-0.386	-0.553	-0.446	-0.579	-0.223	-0.451	0	-
920-620	-0.283	-0.238	-0.241	-0.264	-0.150	-0.248	-0.214	-0.318	-0.247	-0.318	-0.150	-0.244	0	-
930-630	-0.237	-0.209	-0.193	-0.238	-0.141	-0.214	-0.178	-0.191	-0.221	-0.238	-0.141	-0.200	0	-
940-640	-1.252	-0.458	-0.278	-0.414	1.845	-0.230	-0.600	-0.526	-0.207	-1.252	1.845	-0.239	0	-
PEAK COC	DLING [KW]													
	ESP	BLAST	DOE2	SRES/SUN	SERIRES	S3PAS	TRNSYS	TASE	Popolo	RANGE	RANGE	Average	Pass	Error Rate
CASES	UK-DMU	US/IT	USA	USA	UK-BRE	SPAIN	BEL/UK	FINLAND		MIN	MAX			
800-430	-0.908	-0.805	-0.684	-0.410	-0.397	-0.547	-0.816	-1.220	-0.650	-1.220	-0.397	-0.723	0	-
900-800	2.303	2.188	2.715	2.519	3.519	2.306	2.584	2.099	2.014	2.099	3.519	2.529	×	-6.0%
900-810	1.036	0.798	3.458	0.880	1.277	0.902	1.223	0.595	1.067	0.595	3.458	1.271	0	-
910-610	-3.773	-3.324	-3.728	-3.094	-3.242	-3.384	-2.883	-2.999	-3.200	-3.773	-2.883	-3.303	0	-
920-620	-1.249	-1.142	-1.321	-1.106	-1.182	-1.226	-1.225	-1.591	-1.069	-1.591	-1.106	-1.255	×	7.6%
930-630	-1.199	-1.158	-1.200	-1.036	-1.197	-1.179	-1.110	-1.242	-0.874	-1.242	-1.036	-1.165	×	78.4%
940-640	-3.273	-2.737	-3.118	-2.905	-2.636	-2.916	-2.875	-3.314	-2.827	-3.314	-2.636	-2.972	0	-
950-650	-3.998	-3.210	-3.852	-3.501	-3.610	-3.466	-3.692	-3.812	-3.597	-3.998	-3.210	-3.643	0	-