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ภาคผนวก

ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย

**ภาคผนวก ก**  
**ผลการทดสอบสมมติฐาน**

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ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย

ตารางที่ ก.1 ผลการทดสอบสมมติฐานความสูง Dimple

ความสูง Dimple	Pitch หลังเชื่อม							
	0.062 มม.				0.082 มม.			
*		-2.032	-2.563	-2.154	-2.005	-2.411	-2.712	-2.598
	-2.785	-2.364	-2.573	-2.431	-2.305	-3.325	-3.122	-2.632
	-2.662	-2.338	-2.511	-2.386	-2.362	-2.52	-2.955	-3.414
	-2.59	-2.299	-2.624	-2.393	-2.416	-2.247	-2.18	-2.216
	-2.49	-2.276	-2.536		-2.403	-2.419	-2.72	
	-2.651	-2.598	-2.268		-2.727	-1.86	-2.042	
	-2.504	-2.498	-2.659		-2.245	-2.073	-1.963	
	-2.242	-2.472	-2.316		-2.288 *		-2.676	
	-2.567	-2.532	-2.286		-2.483	-2.229	-2.82	
	-2.465	-2.261	-2.361		-2.278	-2.299	-2.938	
	-2.631	-2.042	-2.001		-2.503	-2.54	-2.918	
	-2.63	-2.076	-2.215		-2.553	-2.67	-2.966	
	-2.436	-2.221	-2.152		-2.66	-2.564	-2.863	
	-2.204	-1.954	-2.35		-2.783	-2.455	-2.884	
	-2.352	-2.472	-2.145		-2.353	-2.521	-2.921	
	-2.348	-2.463	-2.202		-2.378	-2.555	-3.004	
	-2.215	-2.214	-1.915		-2.623	-2.8 *		
	-2.325	-2.235	-2.252		-2.671	-2.531	-2.907	
	-2.079	-2.442	-2.34		-2.804	-2.699	-2.686	
	-1.61	-2.66	-2.19		-3.642	-2.902	-2.623	
	-2.247	-2.676	-2.28		-2.116	-3.095	-2.912	
	-2.145	-2.134	-2.338		-2.332	-2.692	-2.981	
	-2.179	-2.638	-2.219		-1.938	-2.427	-3.074	
	-2.476	-2.64	-2.182		-2.427	-2.236	-3.105	
	-2.179	-2.638	-2.093		-2.995	-2.639	-2.829	
	-2.339	-2.877	-2.3		-2.503	-3.042 *		
	-2.406	-2.649	-1.878		-2.487	-2.573	-2.523	
	-2.339	-2.856	-2.131		-2.086	-2.406	-2.062	
	-2.155	-2.506	-2.332		-2.323	-2.965	-2.788	
	-2.533	-2.171	-2.317		-2.101	-2.77	-2.926	
	-2.384	-2.291	-1.532		-2.339	-2.545	-2.673	
	-2.148	-2.417	-2.436		-2.546	-2.731	-2.745	

ตารางที่ ก.2 ผลการทดสอบสมมติฐานค่าเฉลี่ย Sag

ค่าเฉลี่ย Sag	Pitch หลังเชื่อม							
	0.003 มม.				-0.024 มม.			
	-1.805	-2.211	-2.512	-2.398	-0.561	-1.765	-1.569	-1.209
	-2.105	-3.125	-2.922	-2.432	-1.02	-1.01	-1.191	-1.514
	-2.162	-2.32	-2.755	-3.214	-1.325	-1.178	-1.202	-1.849
	-2.216	-2.047	-1.98	-2.016	-1.048	-1.189	-1.504	-0.771
	-2.203	-2.219	-2.52		-0.971	-1.251	-1.378	
	-2.527	-1.66	-1.842		-0.98	-1.183	-1.86	
	-2.045	-1.873	-1.763		-0.986	-1.074 *		
	-2.088 *		-2.476		-1.142	-1.605	-1.638	
	-2.283	-2.029	-2.62		-0.916	-1.146	-1.604	
	-2.078	-2.099	-2.738		-1.137	-1.466	-1.839	
	-2.303	-2.34	-2.718		*	-1.215	-1.645	
	-2.353	-2.47	-2.766		-2.346	-1.597	-1.589	
	-2.46	-2.364	-2.663		*	-1.568	-1.129	
	-2.583	-2.255	-2.684		-1.76	-1.488	-1.657	
	-2.153	-2.321	-2.721		-1.118	-1.491	-1.322	
	-2.178	-2.355	-2.804		-1.774	-1.546 *		
	-2.423	-2.6 *			-1.262	-1.537 *		
	-2.471	-2.331	-2.707		-1.441	-1.33	-1.565	
	-2.604	-2.499	-2.486		-1.527	-1.558	-1.699	
	-3.442	-2.702	-2.423		-1.204	-1.45	-1.536	
	-1.916	-2.895	-2.712		-1.332	-1.404	-1.758	
	-2.132	-2.492	-2.781		-1.385	-1.517	-1.924	
	-1.738	-2.227	-2.874		-1.421	-1.481	-1.631	
	-2.227	-2.036	-2.905		-1.198	-1.713	-1.689	
	-2.795	-2.439	-2.629		-1.349	-1.562	-1.315	
	-2.303	-2.842 *			-1.703	-1.665	-1.395	
	-2.287	-2.373	-2.323		-1.161	-1.661	-1.32	
	-1.886	-2.206	-1.862		-1.456	-2.5	-1.584	
	-2.123	-2.765	-2.588		-1.056	-1.365	-1.498	
	-1.901	-2.57	-2.726		-1.042	-1.852	-1.582	
	-2.139	-2.345	-2.473		-1.936	-1.38	-1.302	
	-2.346	-2.531	-2.545		-1.269	-1.543	-1.365	

ตารางที่ ก.3 ผลการทดสอบสมมติฐานมุมของ Wing

มุมของ Wing	Pitch หลังเชื่อม							
	70 องศา				90 องศา			
	-2.352	-1.733	-2.699	-3.057	-2.536	-2.08	-2.036	-2.696
	-1.884	-1.712	-2.885	-2.792	-2.216	-1.779	-1.815	-1.602
	-2.252	-2.124	-2.262	-1.796	-2	-1.759	-2.57	-2.865
	-1.829	-2.152	-2.215	-2.738	-2.232	-2.226	-2.78	-1.861
	-3.161	-2.069	-2.553		-2.003	-2.485	-2.669	
	-2.51	-2.021	-1.579		-1.74	-2.011	-2.15	
	-2.454	-2.295	-1.949		-2.26	-2.279	-2.498	
	-1.909	-1.782	-1.076		-1.889	-2.121	-2.023	
	-2.394	-2.717	-2.134		-2.279	-1.952	-1.854	
	-2.413	-2.912	-2.401		-1.48	-2.249	-2.793	
	-2.154	-3.027	-1.553		-2.363	-1.812	-2.476	
	-2.907	-2.188	-2.205		-1.849	-2.059	-2.052	
	-2.6	-2.488	-2.5		-2.669	-1.901	-1.866	
	-2.54	-2.042	-1.39		-1.405	-2.518	-1.546	
	-2.534	-1.961	-2.069		-2.195	-2.304	-1.611	
	-2.684	-1.69	-2		-3.024	-1.673	-1.822	
	-2.267	-1.987	-1.804		-2.333	-2.023	-1.791	
	-2.331	-2.346	-2.245		-2.181	-2.316	-2.145	
	-2.466	-2.354	-1.937		-2.138	-2.627	-2.529	
	-2.174	-2.078	-2.02		-2.288	-2.105	-2.034	
	-2.242	-1.26	-2.325		-1.759	-2.32	-2.178	
	-2.05	-2.662	-1.478		-2.045	-2.846	-2.291	
	-2.272	-2.653	-1.68		-2.777	-2.597	-2.994	
	-2.029	-2.356	-2.237		-2.485	-2.249	-2.597	
	-2.096	-2.964	-2.151		-2.133	-2.056	-2.747	
	-2.077	-1.778	-2.257		-2.097	-1.613	-1.75	
	-2.242	-1.907	-2.576		-2.294	-2.073	-2.599	
	-2.798	-2.137	-1.897		-2.555	-2.528	-1.963	
	-2.778	-2.558	-2.06		-2.624	-2.046	-2.596	
	-1.58	-2.767	-2.084		-2.008	-2.264	-1.964	
	-2.941	-2.418	-1.523		-2.336	-1.946	-2.362	
	-2.717	-1.35	-1.621		-1.59	-2.015	-1.959	

ตารางที่ ก.4 ผลการทดสอบสมมติฐานความสูงของ Merge Relife

ความสูง	Pitch หลังเชื่อม							
	0.10 มม.				0.14 มม.			
Merge Relife	-2.774	-2.268	-2.174	-2.169	-1.909	-2.047	-3.072	-2.247
	-2.287	-2.234	-2.280	-2.652	-2.148	-2.264	-2.549	-3.015
	-2.117	-1.766	-2.546	-1.387	-2.083 *		-2.510	-2.222
	-2.109	-2.929	-2.208	-2.183	-2.121	-1.872	-1.932	-2.019
	-2.221	-2.075	-2.617		-1.823	-2.408	-2.479	
	-2.561	-2.399	-2.093		-2.143	-2.496	-2.462	
	-2.465	-1.879	-1.414		-2.238	-1.566	-2.309	
	-2.345	-2.000	-1.858		-2.829	-2.150	-1.995	
	-2.433	-2.423	-1.941		-2.234	-2.566	-2.317	
	-2.677	-2.686	-2.248		-2.260	-1.577	-2.368	
	-2.230	-2.258	-2.326		-2.605	-2.839	-2.051	
	-1.940	-2.125	-2.780		-2.563	-2.395	-2.082	
	-2.218	-2.093	-2.948		-1.997	-1.877	-2.159	
	-2.596	-2.340	-1.450		-2.475	-2.666	-2.549	
	-1.832	-2.876	-2.577		-2.813	-2.323	-2.962	
	-2.297	-2.667	-2.593		-2.270	-2.250	-2.288	
	-2.273	-2.176	-2.488		-1.981	-2.413	-2.020	
	-2.122	-2.051	-2.978		-2.465	-2.659	-1.889	
	-2.412	-2.115	-2.251		-2.624	-1.776	-2.051	
	-1.907	-2.432	-2.165		-2.877	-2.093	-2.309	
	-2.346	-2.348	-2.127		-2.421	-2.211	-1.908	
	-2.565	-2.418	-2.591		-1.914	-2.823	-2.312	
	-2.081	-1.986	-2.484		-1.978	-2.684	-2.426	
	-2.771	-2.584	-1.931		*	-2.482	-2.531	
	-2.284	-1.917	-2.165		-2.747	-1.829	-2.124	
	-2.337	-2.667 *			-2.177	-2.148	-1.941	
	-2.395	-2.406	-2.139		-2.334	-2.249	-2.225	
	-2.383	-2.716	-2.052		*	-1.819	-2.446	
	-2.614	-2.304	-2.300		-1.825	-1.919	-2.510	
	-2.528	-2.419	-1.891		-2.224	-2.481	-2.086	
	-2.538 *		-2.083		-2.047	-2.296	-2.475	
	-2.743	-2.281	-2.405		-2.264	-2.472	-2.482	

ตารางที่ ก.5 ผลการทดสอบสมมติฐานขนาดเส้นผ่านศูนย์กลางจุดเชื่อม

Welding Diameter	Pitch หลังเชื่อม							
	0.220 มม.				0.300 มม.			
	-1.725	-1.975	-1.963	-1.872	-3.078	-2.890	-2.743	-2.450
	-2.079	-1.993	-1.890	-2.140	-2.582	-2.544	-2.816	-2.691
	-2.087	-2.262	-1.876	-1.957	-2.559	-2.842	-2.487	-2.507
	-2.044	-1.987	-2.126	-1.890	-2.694	-2.780	-2.928	-2.684
	-1.781	-2.173	-1.752		-2.547	-2.716	-2.951	
	-2.509	-2.061	-2.186		-3.134	-2.335	-2.721	
	-2.123	-2.063	-2.237		-2.783	-2.768	-2.543	
	-2.454	-2.325	-2.158		-2.736	-2.621	-3.321	
	-2.378	-2.011	-2.155		-2.461	-2.828	-2.758	
	-2.371	-1.996	-2.207		-2.763	-2.971	-2.870	
	-1.916	-2.117	-1.681		-2.771	-2.724	-3.062	
	-2.143	-1.933	-2.268		-2.716	-3.027	-2.524	
	-1.638	-2.024	-2.192		-2.783	-2.633	-2.694	
	-2.254	-1.687	-1.907		-2.812	-2.761	-2.735	
	-2.453	-1.993	-2.010		-2.878	-2.882	-2.613	
	-2.151	-2.233	-2.328		-2.517	-2.775	-2.835	
	-2.371	-1.945	-2.093		-2.799	-2.849	-2.417	
	-2.102	-2.482	-1.860		-3.080	-2.855	-2.813	
	-2.147	-2.178	-2.319		-2.577	-2.658	-2.938	
	-2.201	-2.176	-1.930		-2.794	-2.454	-2.894	
	-2.324	-2.190	-1.927		-2.900	-2.566	-2.520	
	-1.970	-2.401	-2.315		-2.709	-2.369	-2.497	
	-2.042	-1.681	-2.022		-2.989	-2.806	-2.925	
	-2.323	-1.729	-1.859		-2.455	-2.517	-2.925	
	-1.818	-2.094	-1.493		-2.766	-2.645	-2.526	
	-1.729	-1.988	-1.942		-2.378	-2.702	-2.849	
	-1.895	-2.172	-1.790		-2.495	-2.239	-2.832	
	-1.490	-2.177	-2.096		-2.376	-2.722	-2.646	
	-2.199	-1.442	-2.055		-2.994	-2.926	-2.707	
	-2.046	-1.810	-1.814		-2.630	-2.745	-3.055	
	-1.663	-2.096	-1.904		-2.689	-2.718	-2.676	
	-1.981	-1.932	-2.414		-3.049	-2.461	-3.042	



ตารางที่ ก.6 ผลการทดสอบสมมติฐานตำแหน่งจุดเชื่อมในแนวแกน Y

Welding Position Y	Pitch หลังเชื่อม							
	2.20 มม.				2.28 มม.			
	-1.744	-1.658	-1.547	-1.772	-2.315	-2.258	-2.092*	
	-1.399	-1.971	-1.409	-1.432	-1.712	-2.055	-2.378	-2.082
	-1.361	-1.408	-1.420	-1.772	-1.994	-1.975	-2.100	-2.081
	-1.751*		-1.416	-1.432	-1.966	-2.090	-2.329	-2.151
	-1.641	-1.303	-1.154		-2.547	-2.566	-2.170	
	-1.773	-1.480	-1.019		-2.518	-2.303	-1.609	
	-1.892	-1.624	-1.576		-2.082	-2.015	-2.307	
	-1.439	-1.928	-1.831		-2.186	-1.909	-2.067	
	-1.644	-1.586	-1.491		-1.956	-2.004	-2.054	
	-2.014	-1.633	-1.470		-1.983	-2.202	-2.133	
	-2.149	-1.502	-1.402		-1.700	-2.055	-2.508	
	-1.621	-1.443	-1.741		-2.462	-2.096	-2.107	
	-1.314	-1.662	-1.386		-2.007	-2.146	-1.993	
	-1.668	-1.815	-1.632		-1.967	-2.123*		
	-1.769	-1.354	-1.690		-2.124	-2.313	-2.200	
	-1.707	-1.956	-1.672		-2.290	-2.058	-2.618	
	-1.764	-1.659	-1.676		-1.885	-2.144	-2.214	
	-1.965	-1.527	-1.870		-2.236	-2.274	-2.215	
	-1.699	-1.747	-1.744		-2.071	-1.799	-2.194	
	-1.705	-1.683	-1.316		-2.249	-2.188	-2.010	
	-1.980	-1.886	-1.472		-2.335	-2.289	-2.287	
	-1.575	-1.399	-1.613		-2.084	-2.380	-2.276	
	-1.557	-1.360	-1.655		-2.183	-2.394	-2.403	
	-1.712	-1.276	-1.493		-2.148	-2.114	-2.322	
	-1.672	-1.915	-1.337		-2.065	-1.923	-2.095	
	-1.389	-1.653	-1.563		-2.115	-2.174	-2.464	
	-1.296	-1.799	-1.964		-2.411	-2.099*		
	-1.653	-1.916	-1.879		-2.504	-2.115	-2.053	
	*	-1.539	-1.784		-2.011	-2.293	-2.427	
	-1.925	-1.369	-1.500		-2.052	-2.080	-2.337	
	-1.437	-1.605	-1.729		-2.203	-2.212	-2.232	
	-1.434	-1.531	-1.658		-2.128	-2.601	-2.385	

ตารางที่ ก.7 ผลการทดสอบสมมติฐานตำแหน่งจุดเชื่อมในแนวแกน X

Welding	Pitch หลังเชื่อม							
	-0.05 มม.				0.05 มม.			
	-2.759	-2.861	-2.214	-2.540	-2.430	-2.345	-2.395	-3.065
	-2.167	-2.329	-1.738	-2.356	-1.963	-1.565	-2.310	-2.144
	-2.040	-2.224	-1.799	-2.541	-3.158 *		-1.828	-2.368
*		-2.077	-2.353	-1.481	-2.215	-2.267	-2.367	-2.485
	-2.583	-2.617	-2.148		-1.711	-2.220	-2.845	
	-1.837	-2.023	-2.096		-1.998	-2.397	-2.337	
	-2.460	-2.167	-2.354		-1.796	-1.491	-1.060	
	-2.449	-2.028	-2.532		-2.124	-1.870	-2.730	
	-2.367	-1.878	-1.906		-2.246	-2.353	-2.200	
	-2.477	-2.418	-2.397		-2.279	-1.654	-2.139	
	-1.826	-2.326	-2.581		-2.263	-2.249	-1.771	
	-1.805	-1.186	-2.145		-1.753	-3.115	-2.304	
	-2.548	-1.513	-1.842		-2.115	-1.722	-2.351	
	-1.399	-2.350	-2.036		-2.548	-1.962	-1.991	
	-1.925	-2.915	-2.351		-2.284	-2.178	-2.329	
	-2.493	-2.332	-1.484		-2.427	-2.907	-2.596	
	-2.379	-2.824	-2.151		-2.267	-2.114	-2.546	
	-2.743	-2.272	-2.243		-2.243	-2.694	-2.582	
	-1.843	-1.732	-2.110		-2.604	-2.021	-2.581	
	-2.628	-2.044	-1.971		-1.517	-1.761	-2.425	
*		-2.226	-2.059		-1.893	-1.530	-2.482	
	-1.905	-2.269	-2.906		-2.566	-2.807	-3.003	
	-1.981	-2.316	-2.599		-2.345	-2.662	-2.374	
	-1.864	-2.860	-2.208		-2.262	-1.877	-1.728	
	-1.930	-2.039	-1.802		-2.169	-2.278	-2.239	
	-2.475	-2.092	-2.123		-2.869	-2.001	-2.161	
	-2.146	-1.875	-2.788		-2.213	-2.662	-2.115	
	-2.264	-2.286	-2.474		-1.934	-2.195	-2.443	
	-2.248	-2.767	-1.895		-2.502	-1.826	-1.751	
	-2.424	-2.108	-2.169		-2.937	-2.490	-2.630	
	-2.133	-2.322	-2.121		-1.591	-2.119	-2.400	
	-2.018	-2.582	-2.095		-1.730	-2.180	-2.178	

ภาคผนวก ข.

ผลการทดลอง

ตารางที่ ข.1 ผลการทดลองปัจจัยที่มีอิทธิพลต่อค่า Pitch หลังเชื่อม

ตารางที่ ข.2 ผลค่าความคลาดเคลื่อนจากการทดลอง

ตารางที่ ข.3 ผลการหาความสัมพันธ์ระหว่างค่า Pitch หลังเชื่อมกับค่า Pitch ก่อนนำส่งลูกค้า



ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย

ตารางที่ ข.1 ผลการทดสอบปัจจัยที่มีอิทธิพลต่อค่า Pitch

C_Dimple	C_Sag_Avg	C_Weld_Diameter	C_Weld_Position	CenterPoint	StdOrder	RunOrder	Blocks	LW_Pitch	Dimple_Height	Sag_Avg	Weld_Diameter	Weld_Position_Y
-1	-1	-1	-1	1	1	1	1	-2.88912	0.059	-0.053	0.205	2.202
1	-1	1	-1	1	6	2	1	-3.87551	0.085	-0.043	0.3	2.195
-1	-1	1	1	1	13	3	1	-3.09771	0.051	-0.052	0.302	2.287
1	1	1	-1	1	8	4	1	-1.96005	0.089	-0.019	0.3	2.214
1	1	-1	1	1	12	5	1	-1.10324	0.082	-0.022	0.199	2.289
-1	1	1	1	1	15	6	1	-2.00199	0.052	-0.021	0.296	2.314
-1	-1	-1	1	1	9	7	1	-1.37727	0.056	-0.042	0.205	2.294
-1	-1	1	-1	1	5	8	1	-3.7998	0.052	-0.051	0.311	2.198
1	-1	-1	1	1	10	9	1	-1.52756	0.083	-0.047	0.194	2.309
1	1	1	1	1	16	10	1	-2.17421	0.086	-0.022	0.296	2.288
1	-1	-1	-1	1	2	11	1	-3.49597	0.081	-0.042	0.206	2.213
0	0	0	0	0	17	12	1	-2.11224	0.074	-0.032	0.255	2.235
-1	1	1	-1	1	7	13	1	-1.65951	0.051	-0.021	0.288	2.203
1	1	-1	-1	1	4	14	1	-2.21918	0.081	-0.015	0.196	2.187
-1	1	-1	-1	1	3	15	1	-1.52338	0.058	-0.02	0.192	2.215
1	-1	1	1	1	14	16	1	-3.10758	0.083	-0.046	0.306	2.3
-1	1	-1	1	1	11	17	1	-0.72786	0.057	-0.015	0.203	2.29

ตารางที่ ข.2 แสดงค่าความคลาดเคลื่อนจากการทดลอง

C_Dimple	C_Sag_Avg	C_Weld_Diameter	C_Weld_Position_Y	CenterPoint	StdOrder	RunOrder	Blocks	FITS1	RESI1
-1	-1	-1	-1	1	1	1	1	-3.072	0.182872
1	-1	1	-1	1	6	2	1	-3.9582	0.082694
-1	-1	1	1	1	13	3	1	-2.98209	-0.11562
1	1	1	-1	1	8	4	1	-1.98756	0.027513
1	1	-1	1	1	12	5	1	-1.09333	-0.00991
-1	1	1	1	1	15	6	1	-1.91032	-0.09167
-1	-1	-1	1	1	9	7	1	-1.27463	-0.10264
-1	-1	1	-1	1	5	8	1	-3.65987	-0.13993
1	-1	-1	1	1	10	9	1	-1.57297	0.045405
1	1	1	1	1	16	10	1	-2.20865	0.034441
1	-1	-1	-1	1	2	11	1	-3.37033	-0.12564
0	0	0	0	0	17	12	1	-2.11224	0
-1	1	1	-1	1	7	13	1	-1.68923	0.029719
1	1	-1	-1	1	4	14	1	-1.99183	-0.22735
-1	1	-1	-1	1	3	15	1	-1.6935	0.170122
1	-1	1	1	1	14	16	1	-3.28042	0.172849
-1	1	-1	1	1	11	17	1	-0.795	0.06714

ตารางที่ ข.3 ผลการหาความสัมพันธ์ระหว่างค่า Pitch หลังเชื่อมกับค่า Pitch ก่อนนำส่งลูกค้า

Pitch	LW_Pitch	Pitch	LW_Pitch	Pitch	LW_Pitch	Pitch	LW_Pitch	Pitch	LW_Pitch
0.935	-2.597	1.295	-2.250	1.066	-2.706	0.889	-2.622	1.623	-1.840
0.641	-2.765	1.600	-1.789	0.752	-2.739	0.868	-2.536	0.855	-2.563
1.098	-2.534	0.999	-2.516	1.590	-1.986	1.280	-2.448	1.051	-2.354
1.408	-1.853	0.868	-2.520	1.171	-2.243	1.179	-2.406	0.955	-2.496
1.384	-2.077	1.227	-2.331	1.046	-2.404	0.842	-2.741	1.875	-1.631
1.545	-1.758	0.910	-2.792	1.274	-2.162	1.416	-2.091	1.400	-2.164
0.370	-3.170	1.252	-2.269	1.283	-2.335	0.497	-3.087	1.289	-2.298
0.955	-2.448	0.592	-2.945	0.834	-2.690	1.190	-2.376	1.424	-2.191
1.353	-2.007	0.771	-2.804	0.748	-2.854	0.990	-2.569	1.081	-2.264
0.699	-2.927	0.568	-3.003	1.358	-2.350	1.037	-2.457	1.187	-2.355
0.818	-2.547	0.916	-2.682	0.664	-2.915	0.829	-2.739	0.950	-2.680
0.518	-3.061	1.015	-2.420	0.557	-2.942	0.860	-2.631	0.658	-2.930
0.471	-3.082	1.033	-2.453	1.238	-2.187	1.280	-2.026	1.405	-2.149
0.732	-2.853	0.928	-2.544	1.216	-2.069	1.266	-2.212	0.938	-2.547
0.793	-2.722	1.683	-1.994	1.687	-1.874	1.162	-2.468	0.633	-2.843
0.389	-3.060	0.502	-3.106	1.458	-2.191	1.232	-2.213	1.254	-2.355
0.854	-2.557	0.804	-2.824	1.416	-2.051	1.514	-2.201	1.260	-2.247
0.904	-2.684	0.252	-3.248	1.059	-2.549	1.116	-2.542	1.153	-2.303
1.065	-2.550	1.459	-2.235	1.025	-2.524	1.201	-2.062	1.146	-2.519
0.915	-2.625	0.641	-3.021	1.161	-2.337	1.581	-1.695	0.830	-2.650
0.927	-2.582	0.829	-2.466	1.017	-2.773	0.924	-2.538	1.242	-2.465
0.914	-2.581	1.252	-2.257	0.708	-2.788	1.336	-2.265	1.182	-2.236
1.428	-2.185	1.165	-2.397	0.492	-3.142	1.068	-2.550	1.347	-2.041
0.999	-2.461	1.287	-2.182	1.273	-2.290	1.367	-1.988	0.194	-3.332
0.969	-2.666	1.204	-2.310	1.158	-2.427	0.980	-2.552	1.164	-2.586
0.871	-2.706	0.613	-2.923	1.210	-2.434	0.791	-2.774	1.465	-2.172
1.616	-2.118	0.690	-2.887	1.089	-2.570	1.348	-2.072	0.508	-3.012
1.284	-2.569	1.233	-2.116	0.717	-2.819	0.850	-2.613	1.038	-2.443
1.737	-1.814	1.122	-2.452	1.396	-2.154	1.185	-2.135	1.431	-2.458
0.828	-2.846	0.743	-2.705	0.931	-2.595	1.189	-2.242	1.531	-1.996
1.523	-2.127	0.953	-2.449	0.773	-2.665	0.930	-2.664	1.096	-2.542
0.541	-3.011	1.064	-2.524	0.778	-2.578	0.893	-2.573	1.068	-2.468
1.186	-2.384	1.192	-2.549	0.896	-2.639	0.615	-2.835	1.581	-2.018

ตารางที่ ข.3 ( ต่อ ) ผลการหาความสัมพันธ์ระหว่างค่า Pitch หลังเชื่อมกับค่า Pitch ก่อนนำส่งลูกค้า

Pitch	LW_Pitch	Pitch	LW_Pitch	Pitch	LW_Pitch	Pitch	LW_Pitch	Pitch	LW_Pitch
1.012	-2.438	1.103	-2.407	1.513	-2.072	0.805	-2.874	0.606	-3.007
0.828	-2.544	1.042	-2.502	0.823	-2.672	0.934	-2.629	0.982	-2.394
1.297	-2.252	1.093	-2.307	0.973	-2.685	0.623	-2.883	0.836	-2.674
1.022	-2.229	1.089	-2.370	1.059	-2.449	1.431	-2.079		
1.337	-2.158	1.023	-2.462	1.578	-2.036	1.338	-2.089		
1.155	-2.187	0.658	-2.935	1.203	-2.399	1.080	-2.500		
1.461	-1.993	1.095	-2.399	1.521	-2.012	0.367	-3.082		
0.988	-2.381	1.069	-2.487	1.078	-2.401	1.176	-2.475		
0.736	-2.694	1.251	-2.246	1.493	-1.985	1.183	-2.315		
0.563	-2.901	0.804	-2.642	0.832	-2.788	1.390	-1.952		
0.255	-3.229	1.210	-2.346	0.735	-2.793	0.737	-2.830		
1.056	-2.416	1.091	-2.455	1.383	-2.078	1.386	-2.118		
1.115	-2.389	1.059	-2.503	1.300	-2.281	0.856	-2.625		
1.019	-2.484	1.285	-2.068	0.506	-2.823	0.805	-2.813		
1.085	-2.408	1.566	-2.110	1.406	-2.207	0.507	-3.078		
1.102	-2.455	0.632	-2.860	0.965	-2.479	1.437	-2.015		
1.468	-2.153	0.655	-2.706	0.684	-2.917	0.735	-2.799		
1.050	-2.535	1.193	-2.322	0.461	-2.998	1.489	-2.065		
0.690	-2.856	1.382	-2.170	0.777	-2.834	0.675	-2.834		
0.608	-2.880	0.761	-2.809	1.167	-2.262	0.902	-2.580		
1.082	-2.613	0.381	-3.196	1.300	-2.158	0.632	-2.864		
1.310	-2.256	0.755	-2.600	1.004	-2.451	1.502	-2.154		
0.572	-3.027	1.085	-2.604	1.009	-2.598	1.033	-2.333		
0.842	-2.647	1.154	-2.429	1.089	-2.509	1.124	-2.346		
1.182	-2.334	0.729	-2.572	0.919	-2.679	1.318	-2.042		
0.960	-2.554	0.767	-2.883	1.303	-2.061	1.610	-1.822		
0.922	-2.526	1.163	-2.338	0.877	-2.617	1.007	-2.685		
0.976	-2.428	1.061	-2.303	1.728	-1.705	0.716	-2.691		
0.893	-2.676	0.863	-2.525	1.248	-2.374	0.854	-2.660		
0.784	-2.779	1.056	-2.442	1.208	-2.112	1.279	-2.246		
1.218	-2.314	0.742	-2.764	0.730	-3.032	1.287	-2.310		
1.042	-2.519	0.756	-2.996	1.286	-2.087	1.178	-2.369		
1.404	-2.165	1.339	-2.265	1.459	-1.976	0.579	-2.961		

ภาคผนวก ค.  
ประเมินผลการทดลอง

ตารางที่ ค.1 ค่า Pitch ก่อนการทดลอง

ตารางที่ ค.2 ค่า Pitch หลังเชื่อม

ตารางที่ ค.3 ค่า Pitch ก่อนนำส่งลูกค้า



ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย



ตารางที่ ๑.1 ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
1	6/9/01	1.16	9	6/9/01	0.854	14	6/10/01	0.986
2	6/9/01	0.821	10	6/9/01	0.788	15	6/10/01	1.181
4	6/9/01	0.798	11	6/9/01	0.755	16	6/10/01	0.848
5	6/9/01	0.987	12	6/9/01	0.859	17	6/10/01	0.283
6	6/9/01	0.709	13	6/9/01	0.839	18	6/10/01	0.564
7	6/9/01	0.98	14	6/9/01	0.744	19	6/10/01	0.806
8	6/9/01	0.982	15	6/9/01	0.95	1	6/10/01	0.972
9	6/9/01	0.767	16	6/9/01	0.734	2	6/10/01	0.724
10	6/9/01	0.93	17	6/9/01	0.693	3	6/10/01	0.977
11	6/9/01	1.509	18	6/9/01	0.848	4	6/10/01	0.929
12	6/9/01	0.061	19	6/9/01	0.917	5	6/10/01	0.996
13	6/9/01	0.78	1	6/9/01	1.063	6	6/10/01	1.081
14	6/9/01	0.616	2	6/9/01	1.026	7	6/10/01	0.998
15	6/9/01	0.862	3	6/9/01	0.875	8	6/10/01	0.994
16	6/9/01	1.05	4	6/9/01	1.009	9	6/10/01	1.025
17	6/9/01	0.846	5	6/9/01	0.938	10	6/10/01	0.894
18	6/9/01	0.849	6	6/9/01	1.086	11	6/10/01	0.938
19	6/9/01	0.696	7	6/9/01	0.99	12	6/10/01	0.897
3	6/9/01	0.008	8	6/9/01	0.806	13	6/10/01	1.048
4	6/9/01	0.021	9	6/9/01	1.074	14	6/10/01	0.923
1	6/9/01	0.831	10	6/9/01	1.084	15	6/10/01	0.889
2	6/9/01	0.435	11	6/9/01	0.858	16	6/10/01	1.201
3	6/9/01	1.051	12	6/9/01	0.684	17	6/10/01	1.054
4	6/9/01	0.953	13	6/9/01	0.82	18	6/10/01	0.906
5	6/9/01	1.272	14	6/9/01	0.823	19	6/10/01	1.074
6	6/9/01	0.702	15	6/9/01	0.681	1	6/10/01	1.235
7	6/9/01	0.542	16	6/9/01	0.824	2	6/10/01	1.05
8	6/9/01	0.779	17	6/9/01	0.808	3	6/10/01	1.098
9	6/9/01	1.07	18	6/9/01	0.911	4	6/10/01	0.907
10	6/9/01	0.796	19	6/9/01	0.732	5	6/10/01	1.201
11	6/9/01	0.816	1	6/10/01	0.791	6	6/10/01	1.133
12	6/9/01	0.892	2	6/10/01	0.949	7	6/10/01	1.439
13	6/9/01	0.82	3	6/10/01	0.962	8	6/10/01	1.088
14	6/9/01	1.096	4	6/10/01	0.922	9	6/10/01	1.433
15	6/9/01	0.959	5	6/10/01	0.875	10	6/10/01	1.153
1	6/9/01	0.705	6	6/10/01	0.918	11	6/10/01	0.992
2	6/9/01	0.831	7	6/10/01	1.065	12	6/10/01	1.021
3	6/9/01	0.913	8	6/10/01	0.814	13	6/10/01	1.011
4	6/9/01	0.919	9	6/10/01	0.903	14	6/10/01	0.982
5	6/9/01	0.768	10	6/10/01	0.918	15	6/10/01	1.031
6	6/9/01	0.952	11	6/10/01	1.059	16	6/10/01	0.847
7	6/9/01	0.839	12	6/10/01	1.111	17	6/10/01	1.231
8	6/9/01	0.814	13	6/10/01	1.125	18	6/10/01	0.928

ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
19	6/10/01	0.886	2	6/11/01	1.534	3	06/13/2001	1.084
20	6/10/01	0.887	1	6/11/01	1.413	4	06/13/2001	0.997
21	6/10/01	0.977	2	6/11/01	1.36	5	06/13/2001	0.961
22	6/10/01	0.92	1	6/11/01	1.158	6	06/13/2001	0.62
23	6/10/01	1.019	2	6/11/01	1.224	7	06/13/2001	0.885
1	6/11/01	1.019	3	6/11/01	1.16	8	06/13/2001	0.792
2	6/11/01	0.976	4	6/11/01	1.073	9	06/13/2001	0.983
3	6/11/01	0.23	5	6/11/01	0.671	10	06/13/2001	1.084
4	6/11/01	0.756	6	6/11/01	0.87	11	06/13/2001	1.088
5	6/11/01	0.679	7	6/11/01	1.185	12	06/13/2001	0.844
6	6/11/01	0.706	8	6/11/01	1.046	13	06/13/2001	0.8
7	6/11/01	0.893	9	6/11/01	0.636	14	06/13/2001	1.064
9	6/11/01	0.536	10	6/11/01	0.908	15	06/13/2001	1.197
10	6/11/01	0.563	11	6/11/01	0.613	16	06/13/2001	0.928
11	6/11/01	0.828	12	6/11/01	0.723	17	06/13/2001	0.712
12	6/11/01	0.757	13	6/11/01	1.473	18	06/13/2001	0.939
13	6/11/01	0.566	14	6/11/01	1.082	19	06/13/2001	1.231
14	6/11/01	0.917	15	6/11/01	0.767	1	06/13/2001	0.896
15	6/11/01	1.061	16	6/11/01	1.487	2	06/13/2001	0.862
16	6/11/01	1.2	17	6/11/01	1.073	3	06/13/2001	0.934
17	6/11/01	0.812	18	6/11/01	1.28	4	06/13/2001	0.781
18	6/11/01	0.77	19	6/11/01	0.79	5	06/13/2001	0.617
19	6/11/01	0.672	1	6/12/01	0.974	6	06/13/2001	1.061
1	6/11/01	0.24	2	6/12/01	0.842	7	06/13/2001	0.899
2	6/11/01	0.263	3	6/12/01	0.87	8	06/13/2001	0.836
1	6/11/01	1.171	4	6/12/01	0.773	9	06/13/2001	0.973
2	6/11/01	1.244	5	6/12/01	0.873	10	06/13/2001	0.735
3	6/11/01	1.167	6	6/12/01	0.918	11	06/13/2001	0.773
4	6/11/01	1.103	7	6/12/01	0.89	12	06/13/2001	0.787
5	6/11/01	0.654	8	6/12/01	1.134	13	06/13/2001	0.838
6	6/11/01	0.851	9	6/12/01	0.965	14	06/13/2001	0.659
7	6/11/01	1.167	10	6/12/01	1.032	15	06/13/2001	0.765
9	6/11/01	0.929	11	6/12/01	1.068	16	06/13/2001	0.72
10	6/11/01	0.567	12	6/12/01	0.817	17	06/13/2001	1.059
11	6/11/01	0.655	13	6/12/01	0.497	18	06/13/2001	0.745
12	6/11/01	0.619	14	6/12/01	0.737	19	06/13/2001	0.775
13	6/11/01	1.501	15	6/12/01	0.924	20	06/13/2001	0.681
14	6/11/01	1.129	16	6/12/01	0.981	21	06/13/2001	0.578
15	6/11/01	0.796	17	6/12/01	0.677	22	06/13/2001	0.849
16	6/11/01	1.441	18	6/12/01	0.829	23	06/13/2001	0.844
18	6/11/01	1.316	19	6/12/01	0.801	1	06/14/2001	0.892
19	6/11/01	0.838	1	06/13/2001	1.042	2	06/14/2001	0.819
1	6/11/01	1.537	2	06/13/2001	0.658	3	06/14/2001	0.953

## ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
4	06/14/2001	0.558	9	06/16/2001	0.385	13	06/19/2001	0.957
5	06/14/2001	1.066	10	06/16/2001	0.949	14	06/19/2001	1.467
6	06/14/2001	0.978	11	06/16/2001	0.799	15	06/19/2001	0.937
7	06/14/2001	0.806	12	06/16/2001	0.742	16	06/19/2001	1.354
8	06/14/2001	0.892	13	06/16/2001	0.798	18	06/19/2001	0.278
9	06/14/2001	0.868	14	06/16/2001	0.921	1	06/20/2001	0.671
10	06/14/2001	0.566	15	06/16/2001	0.836	2	06/20/2001	0.601
11	06/14/2001	0.99	16	06/16/2001	1.101	3	06/20/2001	0.854
12	06/14/2001	0.723	17	06/16/2001	0.604	4	06/20/2001	1.044
13	06/14/2001	0.89	18	06/16/2001	0.806	5	06/20/2001	0.996
14	06/14/2001	0.74	19	06/16/2001	0.693	6	06/20/2001	0.834
15	06/14/2001	1.018	1	06/16/2001	0.373	7	06/20/2001	0.706
16	06/14/2001	1.03	2	06/16/2001	0.372	8	06/20/2001	0.993
17	06/14/2001	0.935	1	06/18/2001	0.97	9	06/20/2001	0.88
18	06/14/2001	1.025	2	06/18/2001	0.713	10	06/20/2001	1.081
19	06/14/2001	0.968	3	06/18/2001	1.27	11	06/20/2001	0.744
1	06/15/2001	1.027	4	06/18/2001	0.714	12	06/20/2001	0.933
2	06/15/2001	0.669	5	06/18/2001	0.59	13	06/20/2001	0.722
3	06/15/2001	0.767	6	06/18/2001	0.756	14	06/20/2001	0.75
4	06/15/2001	0.344	7	06/18/2001	0.486	15	06/20/2001	0.922
5	06/15/2001	0.845	8	06/18/2001	0.737	16	06/20/2001	0.8
6	06/15/2001	0.841	9	06/18/2001	0.802	17	06/20/2001	1.058
7	06/15/2001	1.023	10	06/18/2001	0.622	18	06/20/2001	0.797
8	06/15/2001	0.854	11	06/18/2001	0.735	19	06/20/2001	0.898
9	06/15/2001	0.698	12	06/18/2001	1.039	1	06/20/2001	1.153
10	06/15/2001	0.925	13	06/18/2001	0.889	2	06/20/2001	1.183
11	06/15/2001	1.088	14	06/18/2001	0.768	3	06/20/2001	0.724
12	06/15/2001	1.081	15	06/18/2001	1.01	4	06/20/2001	0.926
13	06/15/2001	1.336	16	06/18/2001	0.96	5	06/20/2001	0.708
14	06/15/2001	1.27	17	06/18/2001	0.754	6	06/20/2001	0.73
15	06/15/2001	1.087	18	06/18/2001	0.66	7	06/20/2001	0.457
16	06/15/2001	0.9	19	06/18/2001	0.784	8	06/20/2001	0.958
17	06/15/2001	0.468	1	06/19/2001	0.928	9	06/20/2001	0.885
18	06/15/2001	0.706	2	06/19/2001	0.246	10	06/20/2001	0.557
19	06/15/2001	0.91	3	06/19/2001	0.905	11	06/20/2001	0.745
1	06/16/2001	0.387	4	06/19/2001	0.897	12	06/20/2001	0.753
2	06/16/2001	1.441	5	06/19/2001	0.924	13	06/20/2001	0.728
3	06/16/2001	0.348	6	06/19/2001	1.158	14	06/20/2001	1.316
4	06/16/2001	0.919	8	06/19/2001	0.743	15	06/20/2001	0.794
5	06/16/2001	0.896	9	06/19/2001	0.924	16	06/20/2001	0.702
6	06/16/2001	0.888	10	06/19/2001	1.092	17	06/20/2001	1.053
7	06/16/2001	0.984	11	06/19/2001	0.884	18	06/20/2001	0.899
8	06/16/2001	0.912	12	06/19/2001	1.011	19	06/20/2001	0.642

ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
1	06/20/2001	0.792	4	06/21/2001	1.018	11	06/21/2001	1.015
2	06/20/2001	0.793	5	06/21/2001	0.934	12	06/21/2001	0.999
3	06/20/2001	0.522	6	06/21/2001	0.486	13	06/21/2001	0.68
4	06/20/2001	0.912	7	06/21/2001	0.724	14	06/21/2001	1.153
5	06/20/2001	0.882	8	06/21/2001	0.277	15	06/21/2001	1.363
6	06/20/2001	0.936	9	06/21/2001	0.862	16	06/21/2001	0.739
7	06/20/2001	0.629	10	06/21/2001	1.262	17	06/21/2001	0.935
8	06/20/2001	0.897	11	06/21/2001	0.45	19	06/21/2001	0.693
9	06/20/2001	0.447	12	06/21/2001	0.949	1	06/21/2001	0.668
10	06/20/2001	0.634	13	06/21/2001	0.957	2	06/21/2001	1.011
11	06/20/2001	0.672	14	06/21/2001	1.014	3	06/21/2001	1.004
12	06/20/2001	0.473	15	06/21/2001	1.137	4	06/21/2001	0.674
13	06/20/2001	0.965	16	06/21/2001	1.044	5	06/21/2001	0.873
14	06/20/2001	0.815	17	06/21/2001	1.509	6	06/21/2001	0.995
15	06/20/2001	0.145	18	06/21/2001	0.567	7	06/21/2001	1.017
16	06/20/2001	0.932	19	06/21/2001	0.818	8	06/21/2001	0.679
17	06/20/2001	0.837	1	06/21/2001	0.917	9	06/21/2001	0.803
18	06/20/2001	1.202	3	06/21/2001	0.734	10	06/21/2001	1.22
19	06/20/2001	0.825	4	06/21/2001	1.123	11	06/21/2001	0.936
1	06/20/2001	0.112	6	06/21/2001	0.923	12	06/21/2001	0.85
2	06/20/2001	0.137	7	06/21/2001	0.853	13	06/21/2001	0.786
1	06/20/2001	0.787	8	06/21/2001	0.674	14	06/21/2001	1.047
2	06/20/2001	0.622	9	06/21/2001	1.003	15	06/21/2001	0.965
3	06/20/2001	0.835	10	06/21/2001	1.066	16	06/21/2001	0.546
4	06/20/2001	0.999	11	06/21/2001	0.774	17	06/21/2001	0.575
5	06/20/2001	0.694	12	06/21/2001	0.961	18	06/21/2001	0.615
6	06/20/2001	0.483	13	06/21/2001	1.173	19	06/21/2001	0.625
7	06/20/2001	0.804	14	06/21/2001	0.758	1	06/21/2001	0.668
8	06/20/2001	0.906	15	06/21/2001	0.895	2	06/21/2001	1.011
9	06/20/2001	0.95	16	06/21/2001	0.958	3	06/21/2001	1.004
10	06/20/2001	0.97	17	06/21/2001	0.896	4	06/21/2001	0.674
11	06/20/2001	1.004	18	06/21/2001	0.813	5	06/21/2001	0.873
12	06/20/2001	0.968	19	06/21/2001	0.885	6	06/21/2001	0.995
13	06/20/2001	0.827	1	06/21/2001	0.86	7	06/21/2001	1.017
14	06/20/2001	1.129	2	06/21/2001	0.651	8	06/21/2001	0.679
15	06/20/2001	0.884	3	06/21/2001	0.894	9	06/21/2001	0.803
16	06/20/2001	0.964	4	06/21/2001	1.108	10	06/21/2001	1.22
17	06/20/2001	0.466	5	06/21/2001	0.829	11	06/21/2001	0.936
18	06/20/2001	1.035	6	06/21/2001	0.919	12	06/21/2001	0.85
19	06/20/2001	0.796	7	06/21/2001	0.941	13	06/21/2001	0.786
1	06/21/2001	0.673	8	06/21/2001	0.539	14	06/21/2001	1.047
2	06/21/2001	0.863	9	06/21/2001	0.631	15	06/21/2001	0.965
3	06/21/2001	0.809	10	06/21/2001	0.658	16	06/21/2001	0.546

ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
17	06/21/2001	0.575	4	06/21/2001	0.819	10	06/21/2001	0.786
18	06/21/2001	0.615	5	06/21/2001	0.813	11	06/21/2001	0.964
19	06/21/2001	0.625	5	06/21/2001	0.81	12	06/21/2001	0.889
1	06/21/2001	1.013	7	06/21/2001	1.105	13	06/21/2001	0.87
2	06/21/2001	0.827	8	06/21/2001	0.702	14	06/21/2001	0.751
3	06/21/2001	0.91	9	06/21/2001	0.897	15	06/21/2001	0.684
4	06/21/2001	1.029	10	06/21/2001	0.877	16	06/21/2001	0.875
5	06/21/2001	1.058	11	06/21/2001	1.221	17	06/21/2001	0.651
6	06/21/2001	0.793	12	06/21/2001	0.976	18	06/21/2001	0.881
7	06/21/2001	1.075	13	06/21/2001	1.359	19	06/21/2001	1.105
8	06/21/2001	1.054	14	06/21/2001	0.741	1	06/21/2001	1.043
9	06/21/2001	0.867	15	06/21/2001	0.557	2	06/21/2001	0.942
10	06/21/2001	0.945	16	06/21/2001	0.728	3	06/21/2001	0.858
11	06/21/2001	1.098	17	06/21/2001	0.957	4	06/21/2001	1.127
12	06/21/2001	0.963	18	06/21/2001	0.723	5	06/21/2001	0.349
13	06/21/2001	0.859	19	06/21/2001	0.98	6	06/21/2001	1.041
14	06/21/2001	0.78	1	06/21/2001	0.959	7	06/21/2001	0.69
15	06/21/2001	0.773	2	06/21/2001	1.084	8	06/21/2001	1.454
16	06/21/2001	0.829	3	06/21/2001	0.908	9	06/21/2001	1.073
1	06/21/2001	1.125	4	06/21/2001	0.963	10	06/21/2001	1.026
2	06/21/2001	0.672	5	06/21/2001	0.938	11	06/21/2001	0.865
3	06/21/2001	1.038	6	06/21/2001	0.504	12	06/21/2001	0.586
4	06/21/2001	0.777	7	06/21/2001	0.78	13	06/21/2001	0.934
5	06/21/2001	0.776	8	06/21/2001	0.885	14	06/21/2001	0.934
6	06/21/2001	0.838	9	06/21/2001	1.059	15	06/21/2001	0.898
7	06/21/2001	0.858	10	06/21/2001	0.622	16	06/21/2001	1.022
8	06/21/2001	0.809	11	06/21/2001	0.417	17	06/21/2001	0.959
9	06/21/2001	0.636	12	06/21/2001	0.889	18	06/21/2001	0.966
10	06/21/2001	0.93	13	06/21/2001	0.801	19	06/21/2001	0.801
11	06/21/2001	0.913	14	06/21/2001	0.761	1	06/22/2001	0.75
12	06/21/2001	0.977	15	06/21/2001	1.346	2	06/22/2001	0.872
13	06/21/2001	0.08	17	06/21/2001	0.948	3	06/22/2001	0.982
14	06/21/2001	0.809	18	06/21/2001	1.163	4	06/22/2001	0.955
15	06/21/2001	0.789	19	06/21/2001	0.762	5	06/22/2001	1.058
16	06/21/2001	0.824	1	06/21/2001	1.068	6	06/22/2001	1.008
17	06/21/2001	0.987	2	06/21/2001	1.031	7	06/22/2001	0.847
18	06/21/2001	0.918	3	06/21/2001	1.04	8	06/22/2001	0.76
19	06/21/2001	1.155	4	06/21/2001	0.71	9	06/22/2001	0.783
1	06/21/2001	0.06	5	06/21/2001	1.043	10	06/22/2001	0.992
2	06/21/2001	0.057	6	06/21/2001	0.673	11	06/22/2001	1.042
1	06/21/2001	1.135	7	06/21/2001	1.045	12	06/22/2001	0.936
2	06/21/2001	0.977	8	06/21/2001	1.199	13	06/22/2001	1.163
3	06/21/2001	0.856	9	06/21/2001	1.109	14	06/22/2001	1.154

ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
15	06/22/2001	0.827	18	06/22/2001	0.5	17	06/22/2001	0.813
16	06/22/2001	0.893	19	06/22/2001	1.021	18	06/22/2001	0.946
17	06/22/2001	0.815	1	06/22/2001	0.32	19	06/22/2001	0.692
18	06/22/2001	0.854	2	06/22/2001	0.333	1	06/23/2001	1.034
19	06/22/2001	0.332	1	06/22/2001	1.055	2	06/23/2001	0.663
1	06/22/2001	1.001	2	06/22/2001	0.976	3	06/23/2001	0.737
2	06/22/2001	0.838	3	06/22/2001	0.968	4	06/23/2001	0.978
3	06/22/2001	0.427	4	06/22/2001	0.923	5	06/23/2001	1.012
4	06/22/2001	1.064	5	06/22/2001	0.664	6	06/23/2001	0.907
5	06/22/2001	1.101	6	06/22/2001	0.998	7	06/23/2001	1.055
6	06/22/2001	0.967	7	06/22/2001	0.945	8	06/23/2001	0.987
7	06/22/2001	0.895	8	06/22/2001	0.731	9	06/23/2001	1.082
8	06/22/2001	0.809	9	06/22/2001	0.842	10	06/23/2001	1.092
9	06/22/2001	0.845	10	06/22/2001	0.792	11	06/23/2001	0.873
10	06/22/2001	1.105	11	06/22/2001	0.741	12	06/23/2001	1.15
11	06/22/2001	0.599	12	06/22/2001	1.039	13	06/23/2001	0.951
12	06/22/2001	0.773	13	06/22/2001	0.977	14	06/23/2001	0.404
13	06/22/2001	0.884	14	06/22/2001	0.855	15	06/23/2001	1.032
14	06/22/2001	1.072	15	06/22/2001	0.939	16	06/23/2001	0.744
15	06/22/2001	0.926	16	06/22/2001	0.901	17	06/23/2001	1.104
16	06/22/2001	0.699	17	06/22/2001	0.974	18	06/23/2001	0.837
17	06/22/2001	0.952	18	06/22/2001	0.834	19	06/23/2001	1.037
18	06/22/2001	0.769	19	06/22/2001	0.775	1	06/23/2001	1.125
19	06/22/2001	1.064	20	06/22/2001	0.895	2	06/23/2001	1.032
1	06/22/2001	1.035	21	06/22/2001	0.936	3	06/23/2001	1.085
2	06/22/2001	1.044	22	06/22/2001	0.951	4	06/23/2001	1.014
1	06/22/2001	1.275	23	06/22/2001	1.235	5	06/23/2001	0.909
2	06/22/2001	0.949	1	06/22/2001	0.987	6	06/23/2001	0.828
3	06/22/2001	1.135	2	06/22/2001	0.88	7	06/23/2001	1.044
4	06/22/2001	0.907	3	06/22/2001	0.666	8	06/23/2001	0.924
5	06/22/2001	0.878	4	06/22/2001	0.905	9	06/23/2001	1.117
6	06/22/2001	0.796	5	06/22/2001	0.821	10	06/23/2001	1.09
7	06/22/2001	0.668	6	06/22/2001	0.638	11	06/23/2001	1.006
8	06/22/2001	1.218	7	06/22/2001	1.055	12	06/23/2001	0.967
9	06/22/2001	1.165	8	06/22/2001	1.016	13	06/23/2001	1.038
10	06/22/2001	0.92	9	06/22/2001	0.858	14	06/23/2001	0.508
11	06/22/2001	1.386	10	06/22/2001	0.919	15	06/23/2001	0.944
12	06/22/2001	0.989	11	06/22/2001	0.72	16	06/23/2001	0.935
13	06/22/2001	1.461	12	06/22/2001	0.685	17	06/23/2001	0.627
14	06/22/2001	1.056	13	06/22/2001	0.638	18	06/23/2001	0.813
15	06/22/2001	0.161	14	06/22/2001	1.06	19	06/23/2001	0.948
16	06/22/2001	0.86	15	06/22/2001	0.868	1	06/23/2001	1.012
17	06/22/2001	0.6	16	06/22/2001	1.066	2	06/23/2001	0.828

ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
3	06/23/2001	0.894	7	06/24/2001	1.056	11	06/29/2001	1.088
4	06/23/2001	1.202	8	06/24/2001	1.452	12	06/29/2001	1.051
5	06/23/2001	0.961	9	06/24/2001	1.142	13	06/29/2001	1.204
6	06/23/2001	1.064	10	06/24/2001	0.926	14	06/29/2001	1.04
7	06/23/2001	0.985	11	06/24/2001	0.997	15	06/29/2001	1.194
8	06/23/2001	0.954	12	06/24/2001	1.005	16	06/29/2001	1.107
9	06/23/2001	0.942	13	06/24/2001	0.877	17	06/29/2001	0.862
10	06/23/2001	1.003	14	06/24/2001	0.863	18	06/29/2001	1.156
11	06/23/2001	1.103	15	06/24/2001	1.339	19	06/29/2001	0.913
12	06/23/2001	1.019	16	06/24/2001	1.14	1	7/2/01	1.096
13	06/23/2001	1.211	17	06/24/2001	0.965	2	7/2/01	1.151
14	06/23/2001	1.11	18	06/24/2001	0.79	3	7/2/01	1.01
15	06/23/2001	0.949	19	06/24/2001	0.877	4	7/2/01	1.276
16	06/23/2001	0.98	1	06/25/2001	1.088	5	7/2/01	1.257
17	06/23/2001	0.931	2	06/25/2001	0.834	6	7/2/01	1.239
18	06/23/2001	1.168	3	06/25/2001	0.847	7	7/2/01	0.84
19	06/23/2001	1.023	4	06/25/2001	0.782	8	7/2/01	1.295
1	06/24/2001	1.136	5	06/25/2001	0.995	9	7/2/01	0.942
2	06/24/2001	1.294	6	06/25/2001	0.768	10	7/2/01	0.905
3	06/24/2001	1.089	7	06/25/2001	0.704	11	7/2/01	0.926
4	06/24/2001	0.865	8	06/25/2001	0.928	12	7/2/01	0.963
5	06/24/2001	1.065	9	06/25/2001	0.949	13	7/2/01	0.65
6	06/24/2001	0.942	10	06/25/2001	0.906	14	7/2/01	1.423
7	06/24/2001	0.886	11	06/25/2001	1.023	15	7/2/01	1.191
8	06/24/2001	1.185	12	06/25/2001	0.938	16	7/2/01	0.741
9	06/24/2001	1.278	13	06/25/2001	0.757	17	7/2/01	0.926
10	06/24/2001	1.065	14	06/25/2001	1.045	18	7/2/01	0.964
11	06/24/2001	1.08	15	06/25/2001	0.766	19	7/2/01	0.872
12	06/24/2001	1.044	16	06/25/2001	1.001	20	7/2/01	1.383
13	06/24/2001	1.048	17	06/25/2001	0.934	21	7/2/01	1.442
14	06/24/2001	1.014	18	06/25/2001	1.158	22	7/2/01	0.965
15	06/24/2001	0.905	19	06/25/2001	0.637	23	7/2/01	1.134
16	06/24/2001	0.873	1	06/29/2001	1.137	1	7/2/01	1.178
17	06/24/2001	0.901	2	06/29/2001	0.908	2	7/2/01	1.065
18	06/24/2001	1	3	06/29/2001	1.126	3	7/2/01	0.936
19	06/24/2001	0.841	4	06/29/2001	1.084	4	7/2/01	1.41
1	06/24/2001	1.18	5	06/29/2001	1.236	5	7/2/01	0.983
2	06/24/2001	0.86	6	06/29/2001	1.159	6	7/2/01	0.975
3	06/24/2001	0.921	7	06/29/2001	1.344	7	7/2/01	0.953
4	06/24/2001	0.697	8	06/29/2001	1.044	8	7/2/01	0.962
5	06/24/2001	1.114	9	06/29/2001	1.084	9	7/2/01	1.107
6	06/24/2001	1.071	10	06/29/2001	1.491	10	7/2/01	1.023

ตารางที่ ก.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
11	7/2/01	0.964	8	7/9/01	0.881	12	7/9/01	0.729
12	7/2/01	0.645	9	7/9/01	0.973	13	7/9/01	0.941
13	7/2/01	1.31	10	7/9/01	0.378	14	7/9/01	0.662
15	7/2/01	1.102	11	7/9/01	1.049	15	7/9/01	0.47
16	7/2/01	1.36	12	7/9/01	0.778	16	7/9/01	0.854
17	7/2/01	0.898	13	7/9/01	0.819	17	7/9/01	0.784
18	7/2/01	1.294	14	7/9/01	0.854	18	7/9/01	0.975
19	7/2/01	1.39	15	7/9/01	0.944	19	7/9/01	0.731
20	7/2/01	1.057	16	7/9/01	0.843	1	7/9/01	0.917
21	7/2/01	1.051	17	7/9/01	0.896	2	7/9/01	0.728
22	7/2/01	1.004	18	7/9/01	0.713	3	7/9/01	0.564
23	7/2/01	1.052	19	7/9/01	0.905	4	7/9/01	0.502
1	7/5/01	0.56	1	7/9/01	0.856	5	7/9/01	0.709
2	7/5/01	0.44	2	7/9/01	0.889	6	7/9/01	0.684
3	7/5/01	0.759	3	7/9/01	0.706	7	7/9/01	0.876
4	7/5/01	0.505	4	7/9/01	0.937	8	7/9/01	0.765
5	7/5/01	0.619	5	7/9/01	0.795	9	7/9/01	0.612
6	7/5/01	0.664	6	7/9/01	1.004	10	7/9/01	0.7
7	7/5/01	0.455	7	7/9/01	0.608	11	7/9/01	0.995
8	7/5/01	0.178	8	7/9/01	0.881	12	7/9/01	0.63
9	7/5/01	0.74	9	7/9/01	0.973	13	7/9/01	0.794
10	7/5/01	0.768	10	7/9/01	0.878	14	7/9/01	0.775
11	7/5/01	0.742	11	7/9/01	1.049	15	7/9/01	0.557
12	7/5/01	0.608	12	7/9/01	0.778	16	7/9/01	0.531
13	7/5/01	0.45	13	7/9/01	0.819	17	7/9/01	0.816
14	7/5/01	0.184	14	7/9/01	0.854	18	7/9/01	0.766
15	7/5/01	0.971	15	7/9/01	0.944	19	7/9/01	0.666
16	7/5/01	0.762	16	7/9/01	0.843	1	7/9/01	0.891
17	7/5/01	0.711	17	7/9/01	0.896	2	7/9/01	0.92
18	7/5/01	0.43	18	7/9/01	0.713	3	7/9/01	0.697
19	7/5/01	0.574	19	7/9/01	0.905	4	7/9/01	0.683
1	7/5/01	0.144	1	7/9/01	0.649	5	7/9/01	0.757
2	7/5/01	0.148	2	7/9/01	0.854	6	7/9/01	0.756
3	7/5/01	0.147	3	7/9/01	0.847	7	7/9/01	0.94
4	7/5/01	0.172	4	7/9/01	0.509	8	7/9/01	1.028
	7/9/01	0.856	5	7/9/01	0.833	9	7/9/01	0.585
2	7/9/01	0.889	6	7/9/01	0.722	10	7/9/01	0.667
3	7/9/01	0.706	7	7/9/01	0.618	11	7/9/01	0.714
4	7/9/01	0.937	8	7/9/01	0.677	12	7/9/01	0.711
5	7/9/01	0.795	9	7/9/01	0.739	13	7/9/01	0.947
6	7/9/01	1.004	10	7/9/01	0.717	14	7/9/01	0.54
7	7/9/01	0.608	11	7/9/01	1.009	15	7/9/01	0.721



ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
16	7/9/01	0.738	1	7/10/01	0.504	3	7/11/01	0.766
17	7/9/01	0.937	2	7/10/01	0.516	4	7/11/01	0.563
18	7/9/01	0.647	1	7/10/01	1.095	5	7/11/01	0.769
19	7/9/01	0.86	2	7/10/01	0.723	6	7/11/01	0.953
1	7/10/01	0.866	3	7/10/01	1.06	7	7/11/01	1.002
2	7/10/01	0.949	4	7/10/01	1.022	8	7/11/01	0.777
3	7/10/01	0.613	5	7/10/01	0.946	9	7/11/01	0.827
4	7/10/01	0.969	6	7/10/01	0.886	10	7/11/01	0.775
5	7/10/01	0.951	7	7/10/01	0.626	11	7/11/01	0.271
6	7/10/01	0.483	8	7/10/01	1.011	12	7/11/01	0.322
7	7/10/01	0.259	9	7/10/01	0.798	13	7/11/01	0.989
8	7/10/01	0.869	10	7/10/01	1.033	14	7/11/01	0.877
9	7/10/01	0.954	11	7/10/01	0.714	16	7/11/01	1.04
10	7/10/01	0.576	12	7/10/01	0.883	17	7/11/01	1.105
11	7/10/01	0.932	13	7/10/01	0.551	18	7/11/01	0.951
12	7/10/01	0.976	14	7/10/01	0.705	19	7/11/01	1.027
13	7/10/01	0.547	15	7/10/01	1.201	1	7/11/01	0.902
14	7/10/01	0.906	16	7/10/01	0.75	2	7/11/01	0.919
15	7/10/01	0.811	17	7/10/01	0.841	3	7/11/01	0.813
16	7/10/01	0.468	18	7/10/01	0.836	4	7/11/01	0.878
17	7/10/01	0.832	19	7/10/01	0.895	5	7/11/01	0.698
18	7/10/01	0.847	1	7/11/01	0.869	6	7/11/01	0.957
19	7/10/01	0.821	2	7/11/01	1.159	7	7/11/01	0.631
1	7/10/01	0.866	3	7/11/01	0.701	8	7/11/01	0.83
2	7/10/01	0.949	4	7/11/01	0.783	9	7/11/01	0.766
3	7/10/01	0.613	5	7/11/01	0.545	10	7/11/01	1
4	7/10/01	0.969	6	7/11/01	0.991	11	7/11/01	0.959
5	7/10/01	0.951	7	7/11/01	0.904	12	7/11/01	0.531
6	7/10/01	0.483	8	7/11/01	0.729	13	7/11/01	0.776
7	7/10/01	0.259	9	7/11/01	0.703	14	7/11/01	0.986
8	7/10/01	0.869	10	7/11/01	0.551	15	7/11/01	1.228
9	7/10/01	0.954	11	7/11/01	0.855	16	7/11/01	1.075
10	7/10/01	0.576	12	7/11/01	0.712	17	7/11/01	1.021
11	7/10/01	0.932	13	7/11/01	0.609	18	7/11/01	1.084
12	7/10/01	0.976	14	7/11/01	0.83	19	7/11/01	1.127
13	7/10/01	0.547	15	7/11/01	0.74	1	7/12/01	0.911
14	7/10/01	0.906	16	7/11/01	0.804	2	7/12/01	0.901
15	7/10/01	0.811	17	7/11/01	0.783	3	7/12/01	0.878
16	7/10/01	0.468	18	7/11/01	0.762	4	7/12/01	0.976
17	7/10/01	0.832	19	7/11/01	0.75	5	7/12/01	1.099
18	7/10/01	0.847	1	7/11/01	0.634	6	7/12/01	0.884
19	7/10/01	0.821	2	7/11/01	0.885	7	7/12/01	0.821

ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
8	7/12/01	0.624	16	7/12/01	0.943	1	07/13/2001	0.681
9	7/12/01	0.523	17	7/12/01	0.891	2	07/13/2001	0.972
10	7/12/01	0.862	18	7/12/01	1.166	3	07/13/2001	0.836
11	7/12/01	0.666	19	7/12/01	0.887	4	07/13/2001	1.071
12	7/12/01	0.764	1	7/12/01	0.593	5	07/13/2001	1.045
13	7/12/01	0.796	2	7/12/01	0.585	6	07/13/2001	0.813
14	7/12/01	0.824	3	7/12/01	0.936	7	07/13/2001	1.132
15	7/12/01	0.879	4	7/12/01	0.638	8	07/13/2001	0.913
16	7/12/01	0.85	5	7/12/01	0.915	9	07/13/2001	1.074
17	7/12/01	0.823	6	7/12/01	0.841	10	07/13/2001	1.39
18	7/12/01	0.751	7	7/12/01	0.848	11	07/13/2001	0.515
19	7/12/01	0.85	8	7/12/01	0.661	12	07/13/2001	0.631
1	7/12/01	0.721	9	7/12/01	0.88	13	07/13/2001	0.895
2	7/12/01	0.903	10	7/12/01	0.922	14	07/13/2001	0.897
3	7/12/01	0.204	11	7/12/01	0.348	15	07/13/2001	0.945
4	7/12/01	0.416	12	7/12/01	0.696	16	07/13/2001	0.617
5	7/12/01	0.986	13	7/12/01	1.413	17	07/13/2001	0.865
6	7/12/01	0.911	14	7/12/01	0.876	18	07/13/2001	0.918
7	7/12/01	0.833	15	7/12/01	0.794	19	07/13/2001	0.766
8	7/12/01	0.96	16	7/12/01	0.641	1	07/13/2001	0.856
9	7/12/01	0.635	17	7/12/01	0.643	2	07/13/2001	0.848
10	7/12/01	0.976	18	7/12/01	0.617	3	07/13/2001	1.081
11	7/12/01	1.12	19	7/12/01	1.022	4	07/13/2001	0.843
12	7/12/01	0.821	1	07/13/2001	1.393	5	07/13/2001	1.013
13	7/12/01	0.759	2	07/13/2001	0.655	7	07/13/2001	0.793
1	7/12/01	0.137	3	07/13/2001	0.761	8	07/13/2001	0.699
2	7/12/01	0.118	4	07/13/2001	0.985	9	07/13/2001	0.587
1	7/12/01	0.463	5	07/13/2001	0.595	10	07/13/2001	0.641
2	7/12/01	0.299	6	07/13/2001	0.727	11	07/13/2001	0.779
3	7/12/01	0.461	7	07/13/2001	0.803	12	07/13/2001	1.147
4	7/12/01	0.801	8	07/13/2001	0.82	14	07/13/2001	1.113
5	7/12/01	1.101	9	07/13/2001	0.599	15	07/13/2001	0.484
6	7/12/01	1.041	10	07/13/2001	0.915	16	07/13/2001	0.903
7	7/12/01	0.971	11	07/13/2001	0.889	17	07/13/2001	0.859
8	7/12/01	0.857	12	07/13/2001	0.681	18	07/13/2001	0.837
9	7/12/01	0.473	13	07/13/2001	0.702	19	07/13/2001	1.049
10	7/12/01	0.809	14	07/13/2001	1.014	1	07/13/2001	0.695
11	7/12/01	0.814	15	07/13/2001	0.402	1	07/13/2001	0.739
12	7/12/01	0.778	16	07/13/2001	0.859	2	07/13/2001	0.551
13	7/12/01	0.965	17	07/13/2001	1.015	3	07/13/2001	1.066
14	7/12/01	0.912	18	07/13/2001	1.082	4	07/13/2001	0.927
15	7/12/01	1.149	19	07/13/2001	1.022	5	07/13/2001	0.767

ตารางที่ ค.1( ต่อ ) ค่า Pitch ก่อนการทดลอง

Part	Date	Pitch	Part	Date	Pitch	Part	Date	Pitch
6	07/13/2001	1.101	7	07/14/2001	1.241	9	07/15/2001	1.138
7	07/13/2001	0.537	8	07/14/2001	0.921	10	07/15/2001	1.041
9	07/13/2001	0.868	9	07/14/2001	1.184	11	07/15/2001	0.642
10	07/13/2001	0.939	10	07/14/2001	0.841	12	07/15/2001	0.701
11	07/13/2001	0.827	11	07/14/2001	1.383	13	07/15/2001	1.443
12	07/13/2001	0.971	13	07/14/2001	1.095	14	07/15/2001	1.269
13	07/13/2001	0.96	14	07/14/2001	1.155	15	07/15/2001	0.977
14	07/13/2001	0.786	15	07/14/2001	1.233	16	07/15/2001	1.021
15	07/13/2001	0.993	16	07/14/2001	1.054	17	07/15/2001	1.264
16	07/13/2001	1.056	17	07/14/2001	0.999	18	07/15/2001	0.947
17	07/13/2001	0.842	18	07/14/2001	0.841	19	07/15/2001	0.66
18	07/13/2001	0.889	19	07/14/2001	0.691			
19	07/13/2001	0.962	1	07/14/2001	1.067			
1	07/13/2001	1.431	3	07/14/2001	1.136			
2	07/13/2001	1.434	4	07/14/2001	0.521			
1	07/14/2001	0.832	5	07/14/2001	0.859			
2	07/14/2001	0.599	6	07/14/2001	0.882			
3	07/14/2001	0.791	7	07/14/2001	0.89			
4	07/14/2001	0.632	8	07/14/2001	1.057			
5	07/14/2001	1.268	9	07/14/2001	0.658			
6	07/14/2001	1.177	10	07/14/2001	0.805			
7	07/14/2001	1.113	11	07/14/2001	0.688			
8	07/14/2001	0.106	12	07/14/2001	0.999			
9	07/14/2001	1.53	13	07/14/2001	0.007			
10	07/14/2001	1.039	14	07/14/2001	0.972			
11	07/14/2001	1.075	15	07/14/2001	0.961			
12	07/14/2001	1.196	16	07/14/2001	0.897			
13	07/14/2001	1.099	17	07/14/2001	0.818			
14	07/14/2001	1.062	18	07/14/2001	1.265			
15	07/14/2001	0.932	19	07/14/2001	0.533			
16	07/14/2001	1.241	1	07/14/2001	1.443			
17	07/14/2001	1.396	2	07/14/2001	1.454			
18	07/14/2001	0.553	3	07/14/2001	0.002			
19	07/14/2001	0.628	4	07/14/2001	0.016			
1	07/14/2001	0.102	1	07/15/2001	1.236			
2	07/14/2001	0.097	2	07/15/2001	0.998			
1	07/14/2001	0.966	3	07/15/2001	1.367			
2	07/14/2001	0.984	4	07/15/2001	0.95			
3	07/14/2001	1.218	5	07/15/2001	1.266			
4	07/14/2001	1.104	6	07/15/2001	1.245			
5	07/14/2001	1.056	7	07/15/2001	0.997			
6	07/14/2001	0.842	8	07/15/2001	0.938			

ตารางที่ ค.2 ค่า Pitch หลังเชื่อม

Part No.	Date	Pitch LW	Part No.	Date	Pitch LW	Part No.	Date	Pitch LW
7	11/13/2001	-2.161	5	11/14/2001	-2.997	4	11/14/2001	-2.201
8	11/13/2001	-2.449	1	11/14/2001	-2.435	5	11/14/2001	-2.522
9	11/13/2001	-2.396	2	11/14/2001	-2.493	6	11/14/2001	-2.363
10	11/13/2001	-2.647	3	11/14/2001	-2.455	7	11/14/2001	-2.572
11	11/13/2001	-2.622	4	11/14/2001	-2.578	1	11/14/2001	-2.44
7	11/13/2001	-2.584	5	11/14/2001	-2.707	2	11/14/2001	-2.761
8	11/13/2001	-2	6	11/14/2001	-2.207	3	11/14/2001	-2.621
9	11/13/2001	-2.446	7	11/14/2001	-2.465	4	11/14/2001	-2.745
10	11/13/2001	-2.575	8	11/14/2001	-2.387	5	11/14/2001	-2.807
10	11/13/2001	-2.412	9	11/14/2001	-2.895	4	11/14/2001	-2.635
11	11/13/2001	-2.403	10	11/14/2001	-2.633	5	11/14/2001	-2.383
12	11/13/2001	-2.394	4	11/14/2001	-2.371	6	11/14/2001	-2.566
13	11/13/2001	-2.396	5	11/14/2001	-2.497	7	11/14/2001	-2.589
14	11/13/2001	-2.296	6	11/14/2001	-2.416	8	11/14/2001	-2.692
2	11/13/2001	-2.139	7	11/14/2001	-2.514	4	11/14/2001	-2.195
3	11/13/2001	-2.622	8	11/14/2001	-2.726	5	11/14/2001	-2.621
4	11/13/2001	-2.331	7	11/14/2001	-2.657	6	11/14/2001	-2.503
5	11/13/2001	-2.426	8	11/14/2001	-2.662	7	11/14/2001	-2.665
6	11/13/2001	-2.201	9	11/14/2001	-2.72	8	11/14/2001	-3.042
3	11/13/2001	-2.552	10	11/14/2001	-2.748	15	11/15/2001	-2.254
4	11/13/2001	-2.499	11	11/14/2001	-2.468	16	11/15/2001	-2.778
5	11/13/2001	-2.485	5	11/14/2001	-2.908	17	11/15/2001	-3.122
6	11/13/2001	-2.67	6	11/14/2001	-2.199	18	11/15/2001	-2.754
7	11/13/2001	-2.774	7	11/14/2001	-2.409	19	11/15/2001	-2.961
4	11/13/2001	-2.233	8	11/14/2001	-3.023	3	11/15/2001	
5	11/13/2001	-2.482	9	11/14/2001	-2.875	4	11/15/2001	-2.89
6	11/13/2001	-2.447	10	11/14/2001	-2.552	5	11/15/2001	-2.033
7	11/13/2001	-2.56	11	11/14/2001	-2.727	6	11/15/2001	-2.781
8	11/13/2001	-2.436	12	11/14/2001	-2.23	7	11/15/2001	-2.48
10	11/13/2001	-2.242	13	11/14/2001	-2.68	2	11/15/2001	-2.569
11	11/13/2001	-2.653	14	11/14/2001	-2.77	3	11/15/2001	-2.704
12	11/13/2001	-2.748	3	11/14/2001	-2.804	4	11/15/2001	-2.829
13	11/13/2001	-2.318	4	11/14/2001	-2.602	5	11/15/2001	-2.821
14	11/13/2001	-2.471	5	11/14/2001	-2.638	6	11/15/2001	-2.518
4	11/13/2001	-2.258	6	11/14/2001	-2.638	2	11/15/2001	-3.19
5	11/13/2001	-2.427	7	11/14/2001	-2.806	3	11/15/2001	-2.448
6	11/13/2001	-2.227	4	11/14/2001	-2.919	4	11/15/2001	-2.794
7	11/13/2001	-2.637	5	11/14/2001	-2.606	5	11/15/2001	-2.484
8	11/13/2001	-2.26	6	11/14/2001	-2.608	6	11/15/2001	-2.056
1	11/14/2001	-2.413	7	11/14/2001	-2.841	7	11/15/2001	-2.537
2	11/14/2001	-2.141	8	11/14/2001	-2.919	8	11/15/2001	-2.487
3	11/14/2001	-2.401	3	11/14/2001	-2.455	9	11/15/2001	-2.974

ตารางที่ ค.2 ( ต่อ ) ค่า Pitch หลังเชื่อม

Part No.	Date	Pitch LW	Part No.	Date	Pitch LW	Part No.	Date	Pitch LW
10	11/15/2001	-2.344	4	11/15/2001	-2.66	4	11/16/2001	-2.563
11	11/15/2001	-2.08	5	11/15/2001	-2.501	5	11/16/2001	-2.575
3	11/15/2001	-2.563	6	11/15/2001	-2.463	6	11/16/2001	-2.614
4	11/15/2001	-2.717	7	11/15/2001	-2.529	8	11/16/2001	-2.411
5	11/15/2001	-2.538	8	11/15/2001	-2.805	9	11/16/2001	-2.608
6	11/15/2001	-2.549	4	11/15/2001	-2.684	10	11/16/2001	-2.673
7	11/15/2001	-2.588	5	11/15/2001	-2.637	11	11/16/2001	-2.734
4	11/15/2001	-2.383	6	11/15/2001	-2.786	12	11/16/2001	-2.94
5	11/15/2001	-2.452	7	11/15/2001	-2.933	7	11/16/2001	-2.445
6	11/15/2001	-2.446	8	11/15/2001	-2.68	8	11/16/2001	-2.471
7	11/15/2001	-2.719	4	11/15/2001	-2.25	9	11/16/2001	-3.049
8	11/15/2001	-2.549	5	11/15/2001	-2.589	10	11/16/2001	-2.975
3	11/15/2001	-2.762	6	11/15/2001	-2.759	11	11/16/2001	-2.262
4	11/15/2001	-2.525	7	11/15/2001	-2.119	5	11/16/2001	
5	11/15/2001	-2.621	8	11/15/2001	-2.251	6	11/16/2001	-2.756
6	11/15/2001	-2.713	7	11/15/2001	-2.489	7	11/16/2001	-2.491
7	11/15/2001	-2.56	8	11/15/2001	-2.51	8	11/16/2001	-2.712
1	11/15/2001	-2.562	9	11/15/2001	-2.663	9	11/16/2001	-2.589
2	11/15/2001	-2.812	10	11/15/2001	-2.357	6	11/17/2001	-2.774
3	11/15/2001	-2.806	11	11/15/2001	-2.333	7	11/17/2001	-3.063
4	11/15/2001	-2.41	6	11/15/2001	-2.707	8	11/17/2001	-3.063
5	11/15/2001	-2.633	7	11/15/2001	-2.627	9	11/17/2001	-2.667
4	11/15/2001	-2.508	8	11/15/2001	-2.736	10	11/17/2001	-2.878
5	11/15/2001		9	11/15/2001	-2.345	4	11/17/2001	-2.448
6	11/15/2001	-2.992	10	11/15/2001	-2.477	5	11/17/2001	-2.542
7	11/15/2001	-2.685	7	11/15/2001	-2.503	6	11/17/2001	-2.445
8	11/15/2001	-2.424	8	11/15/2001	-2.32	7	11/17/2001	-2.794
1	11/15/2001	-2.373	9	11/15/2001	-2.683	8	11/17/2001	-2.593
2	11/15/2001	-2.364	10	11/15/2001	-2.821	4	11/17/2001	-2.288
3	11/15/2001	-2.373	11	11/15/2001	-2.351	5	11/17/2001	-2.664
4	11/15/2001	-2.63	6	11/15/2001	-2.517	6	11/17/2001	-2.481
5	11/15/2001	-2.417	7	11/15/2001		7	11/17/2001	-2.566
1	11/15/2001	-2.474	8	11/15/2001	-2.642	8	11/17/2001	-2.493
2	11/15/2001	-2.595	9	11/15/2001	-2.431	6	11/17/2001	-2.61
3	11/15/2001	-2.255	10	11/15/2001	-2.261	7	11/17/2001	-2.47
4	11/15/2001	-2.469	6	11/15/2001	-2.462	8	11/17/2001	-2.834
5	11/15/2001	-2.436	7	11/15/2001	-2.422	9	11/17/2001	-2.757
3	11/15/2001	-2.508	8	11/15/2001	-2.661	10	11/17/2001	-2.187
4	11/15/2001	-2.634	9	11/15/2001	-2.475	10	11/17/2001	-2.524
5	11/15/2001	-2.404	10	11/15/2001	-2.213	11	11/17/2001	-2.861
6	11/15/2001	-2.534	2	11/16/2001	-2.594	12	11/17/2001	-2.724
7	11/15/2001	-2.105	3	11/16/2001	-2.157	13	11/17/2001	-2.95

ตารางที่ ค.2 ( ต่อ ) ค่า Pitch หลังเชื่อม

Part No.	Date	Pitch LW	Part No.	Date	Pitch LW	Part No.	Date	Pitch LW
14	11/17/2001	-2.73	3	11/18/2001	-2.668	7	11/19/2001	-2.459
2	11/18/2001	-2.235	4	11/18/2001	-2.636	8	11/19/2001	-2.435
3	11/18/2001	-2.537	5	11/18/2001	-2.462	2	11/19/2001	-2.461
4	11/18/2001	-2.429	6	11/18/2001	-2.901	3	11/19/2001	-2.317
5	11/18/2001	-2.379	10	11/18/2001	-2.501	4	11/19/2001	-2.913
6	11/18/2001	-2.913	11	11/19/2001	-2.648	5	11/19/2001	-2.323
5	11/18/2001	-2.42	12	11/19/2001	-2.742	6	11/19/2001	-2.648
6	11/18/2001	-2.846	13	11/19/2001	-2.127	4	11/19/2001	-2.414
7	11/18/2001	-2.797	14	11/19/2001	-2.736	5	11/19/2001	-2.68
8	11/18/2001	-2.5	5	11/19/2001	-2.658	6	11/19/2001	-2.516
9	11/18/2001	-3.089	6	11/19/2001	-2.516	7	11/19/2001	-2.643
4	11/18/2001	-2.779	7	11/19/2001	-2.128	8	11/19/2001	-2.713
5	11/18/2001	-2.334	8	11/19/2001	-2.298	7	11/19/2001	-2.63
6	11/18/2001	-2.832	9	11/19/2001	-2.49	8	11/19/2001	-2.453
7	11/18/2001	-2.624	8	11/19/2001	-2.275	9	11/19/2001	-2.386
8	11/18/2001	-2.21	9	11/19/2001	-2.414	10	11/19/2001	-2.548
1	11/18/2001	-2.918	10	11/19/2001	-2.186	11	11/19/2001	-2.533
2	11/18/2001	-2.725	11	11/19/2001	-2.583	7	11/19/2001	-2.497
3	11/18/2001	-2.751	12	11/19/2001	-2.458	8	11/19/2001	-2.336
4	11/18/2001	-2.543	2	11/19/2001	-2.439	9	11/19/2001	-2.515
5	11/18/2001	-2.283	3	11/19/2001	-2.231	10	11/19/2001	-2.351
1	11/18/2001	-2.632	4	11/19/2001	-2.252	11	11/19/2001	-2.746
2	11/18/2001	-2.737	5	11/19/2001	-2.526	5	11/19/2001	-2.699
3	11/18/2001	-2.19	6	11/19/2001	-2.451	6	11/19/2001	-2.281
4	11/18/2001	-2.473	2	11/19/2001	-2.208	7	11/19/2001	-2.523
5	11/18/2001	-2.32	5	11/19/2001	-2.322	8	11/19/2001	-2.362
3	11/18/2001	-2.271	6	11/19/2001	-2.655	9	11/19/2001	-2.37
4	11/18/2001	-2.315	7	11/19/2001	-2.662	6	11/19/2001	-2.568
5	11/18/2001	-2.047	8	11/19/2001	-2.371	7	11/19/2001	-2.634
6	11/18/2001	-2.782	6	11/19/2001	-2.227	8	11/19/2001	-2.457
7	11/18/2001	-2.703	7	11/19/2001	-2.552	9	11/19/2001	-2.616
8	11/18/2001	-2.847	8	11/19/2001	-2.44	10	11/19/2001	-2.132
9	11/18/2001	-2.761	9	11/19/2001	-2.861	4	11/19/2001	-2.853
10	11/18/2001	-2.519	10	11/19/2001		5	11/19/2001	-2.498
11	11/18/2001	-2.218	4	11/19/2001	-2.681	6	11/19/2001	-2.266
12	11/18/2001	-2.568	5	11/19/2001	-2.417	7	11/19/2001	-2.274
10	11/18/2001	-2.632	6	11/19/2001	-2.586	8	11/19/2001	-2.843
11	11/18/2001	-2.249	7	11/19/2001	-2.624	4	11/20/2001	-2.977
12	11/18/2001	-2.753	8	11/19/2001	-2.844	5	11/20/2001	-2.588
13	11/18/2001	-2.337	4	11/19/2001	-2.416	6	11/20/2001	-2.61
14	11/18/2001	-2.708	5	11/19/2001	-2.288	7	11/20/2001	-2.625
2	11/18/2001	-2.642	6	11/19/2001	-2.59	8	11/20/2001	-2.519

ตารางที่ ค.2 ( ต่อ ) ค่า Pitch หลังเชื่อม

Part No.	Date	Pitch LW	Part No.	Date	Pitch LW	Part No.	Date	Pitch LW
7	11/20/2001	-2.593	4	11/20/2001	-2.841	3	11/20/2001	-2.209
8	11/20/2001	-2.642	5	11/20/2001	-2.99	4	11/20/2001	-2.414
9	11/20/2001	-2.655	1	11/20/2001	-2.702	5	11/20/2001	-2.563
10	11/20/2001	-2.936	2	11/20/2001	-2.545	6	11/20/2001	-2.726
11	11/20/2001	-2.552	3	11/20/2001	-2.807	7	11/20/2001	-2.392
7	11/20/2001	-2.888	4	11/20/2001	-2.254	1	11/20/2001	-2.771
8	11/20/2001	-2.673	5	11/20/2001	-2.144	2	11/20/2001	-2.397
9	11/20/2001	-2.774	6	11/20/2001	-2.534	3	11/20/2001	-2.462
10	11/20/2001	-2.735	7	11/20/2001	-2.785	4	11/20/2001	-2.565
10	11/20/2001	-2.469	8	11/20/2001	-2.677	5	11/20/2001	-2.463
11	11/20/2001	-2.708	9	11/20/2001	-2.281	4	11/20/2001	-2.124
12	11/20/2001	-2.267	10	11/20/2001	-2.725	5	11/20/2001	-2.253
13	11/20/2001	-2.316	4	11/20/2001	-2.242	6	11/20/2001	-2.776
14	11/20/2001	-2.729	5	11/20/2001	-2.388	7	11/20/2001	
2	11/20/2001	-2.393	6	11/20/2001	-2.49	8	11/20/2001	-2.088
3	11/20/2001	-2.74	7	11/20/2001	-2.828	4	11/20/2001	-2.362
4	11/20/2001	-2.503	8	11/20/2001	-2.513	5	11/20/2001	-2.463
5	11/20/2001	-2.67	7	11/20/2001	-2.882	6	11/20/2001	-2.516
6	11/20/2001	-2.653	8	11/20/2001	-2.61	7	11/20/2001	-2.573
3	11/20/2001	-2.805	9	11/20/2001	-2.293	8	11/20/2001	-2.217
4	11/20/2001	-2.672	10	11/20/2001	-2.479	15	11/21/2001	-2.718
5	11/20/2001	-2.635	11	11/20/2001	-2.399	16	11/21/2001	-2.44
6	11/20/2001	-2.551	5	11/20/2001	-2.753	17	11/21/2001	-2.351
7	11/20/2001	-3.034	6	11/20/2001	-2.716	18	11/21/2001	-2.729
4	11/20/2001	-2.443	7	11/20/2001	-2.588	19	11/21/2001	-2.702
5	11/20/2001	-3.08	8	11/20/2001	-2.397	3	11/21/2001	-2.19
6	11/20/2001	-2.771	9	11/20/2001	-2.561	4	11/21/2001	-2.328
7	11/20/2001	-2.438	10	11/20/2001	-2.536	5	11/21/2001	-2.604
8	11/20/2001	-2.568	11	11/20/2001	-2.379	6	11/21/2001	-2.511
10	11/20/2001	-2.755	12	11/20/2001	-2.936	7	11/21/2001	-2.488
11	11/20/2001	-2.509	13	11/20/2001	-2.535	2	11/21/2001	-2.429
12	11/20/2001	-2.71	14	11/20/2001	-2.782	3	11/21/2001	-2.309
13	11/20/2001	-2.15	3	11/20/2001	-2.476	4	11/21/2001	-2.796
14	11/20/2001	-2.675	4	11/20/2001	-2.799	5	11/21/2001	
4	11/20/2001	-2.806	5	11/20/2001	-2.716	6	11/21/2001	-2.727
5	11/20/2001	-2.653	6	11/20/2001	-2.295	2	11/21/2001	-2.459
6	11/20/2001	-2.873	7	11/20/2001	-2.491	3	11/21/2001	-2.718
7	11/20/2001	-3.076	4	11/20/2001	-2.344	4	11/21/2001	-2.482
8	11/20/2001	-2.767	5	11/20/2001	-2.115	5	11/21/2001	-2.601
1	11/20/2001	-2.504	6	11/20/2001	-2.318	6	11/21/2001	-2.787
2	11/20/2001	-2.448	7	11/20/2001	-2.206	7	11/21/2001	-2.386
3	11/20/2001	-2.602	8	11/20/2001	-2.302	8	11/21/2001	-2.485

## ตารางที่ ก.2 ( ต่อ ) ค่า Pitch หลังเชื่อม

Part No.	Date	Pitch LW	Part No.	Date	Pitch LW	Part No.	Date	Pitch LW
9	11/21/2001	-2.237	7	11/21/2001	-2.683	8	11/22/2001	-2.551
10	11/21/2001	-2.192	8	11/21/2002	-2.819	9	11/22/2001	-2.582
11	11/21/2001	-2.645	6	11/21/2001	-2.356	10	11/22/2001	-2.645
3	11/21/2001	-2.402	7	11/21/2001	-2.628	11	11/22/2001	-2.138
4	11/21/2001	-2.627	8	11/21/2001	-2.675	12	11/22/2001	-2.342
5	11/21/2001	-2.185	9	11/21/2001	-2.576	10	11/22/2001	-2.326
6	11/21/2001	-2.388	10	11/21/2001	-2.415	11	11/22/2001	-2.216
7	11/21/2001	-2.809	10	11/21/2001	-2.856	12	11/22/2001	-2.719
4	11/21/2001	-2.814	11	11/21/2001	-2.626	13	11/22/2001	-2.879
5	11/21/2001	-2.143	12	11/21/2001	-3.144	14	11/22/2001	-2.804
6	11/21/2001	-2.724	13	11/21/2001	-2.544	2	11/22/2001	-2.473
7	11/21/2001	-2.412	14	11/21/2001		3	11/22/2001	-2.804
8	11/21/2001	-2.621	2	11/21/2001	-2.815	4	11/22/2001	-2.449
3	11/21/2001	-2.433	3	11/21/2001	-2.507	5	11/22/2001	-2.477
4	11/21/2001	-2.569	4	11/21/2001	-2.724	6	11/22/2001	-2.753
5	11/21/2001	-2.263	5	11/21/2001	-2.589	10	11/22/2001	-2.982
6	11/21/2001	-2.47	6	11/21/2001	-2.379	11	11/22/2001	-2.863
7	11/21/2001	-2.481	5	11/21/2001	-2.551	12	11/22/2001	-2.644
1	11/21/2001	-2.699	6	11/21/2001	-2.688	13	11/22/2001	-2.611
2	11/21/2001	-2.41	7	11/21/2001	-2.62	14	11/22/2001	-2.396
3	11/21/2001	-2.266	8	11/21/2001	-2.929	5	11/22/2001	-2.61
4	11/21/2001	-2.616	9	11/21/2001	-2.665	6	11/22/2001	-2.363
5	11/21/2001	-2.841	4	11/21/2001	-2.568	7	11/22/2001	-2.638
4	11/21/2001	-2.99	5	11/21/2001	-2.773	8	11/22/2001	-2.295
5	11/21/2001	-2.448	6	11/21/2001	-2.485	9	11/22/2001	-2.084
6	11/21/2001	-2.429	7	11/21/2001	-2.711	8	11/22/2001	-2.273
7	11/21/2001	-2.453	8	11/21/2001	-2.482	9	11/22/2001	-2.104
8	11/21/2001	-2.631	1	11/22/2001	-2.439	10	11/22/2001	-2.617
1	11/21/2001	-2.974	2	11/22/2001	-2.881	11	11/22/2001	-2.432
2	11/21/2001	-2.688	3	11/22/2001	-2.958	12	11/22/2001	-2.223
3	11/21/2001	-2.697	4	11/22/2001	-2.526	2	11/22/2001	-2.119
4	11/21/2001	-2.552	5	11/22/2001	-2.224	3	11/22/2001	-2.581
5	11/21/2001	-2.936	1	11/22/2001	-2.514	4	11/22/2001	-2.536
1	11/21/2001	-2.647	2	11/22/2001	-2.406	5	11/22/2001	-2.383
2	11/21/2001	-2.842	3	11/22/2001	-2.51	6	11/22/2001	-2.617
3	11/21/2001	-2.803	4	11/22/2001	-2.515	2	11/23/2001	-2.395
4	11/21/2001	-3.064	5	11/22/2001	-2.574	3	11/23/2001	-2.356
5	11/21/2001	-2.753	3	11/22/2001	-2.309	4	11/23/2001	-2.254
3	11/21/2001	-2.494	4	11/22/2001	-2.58	5	11/23/2001	-2.515
4	11/21/2001	-2.382	5	11/22/2001	-2.561	6	11/23/2001	-2.435
5	11/21/2001	-2.549	6	11/22/2001	-2.28	6	11/22/2001	-2.706
6	11/21/2001	-2.689	7	11/22/2001	-2.75	7	11/22/2001	-2.17



ตารางที่ ค.2 ( ต่อ ) ค่า Pitch หลังเชื่อม

Part No.	Date	Pitch LW	Part No.	Date	Pitch LW	Part No.	Date	Pitch LW	Part No.	Date	Pitch LW
8	11/22/2001	-2.598	5	11/24/2001	-2.594	3	11/25/2001	-2.317	7	11/25/2001	-2.783
9	11/22/2001	-2.631	4	11/24/2001	-2.032	4	11/25/2001	-2.688	8	11/25/2001	-2.803
10	11/22/2001	-2.567	5	11/24/2001	-2.783	5	11/25/2001	-2.508	1	11/25/2001	-2.639
4	11/23/2001	-2.374	6	11/24/2001	-2.375	6	11/25/2001	-2.916	2	11/25/2001	-2.53
5	11/23/2001	-3.044	7	11/24/2001	-2.491	3	11/25/2001	-3.195	3	11/25/2001	-2.911
6	11/23/2001	-2.482	8	11/24/2001	-2.732	4	11/25/2001	-2.348	4	11/25/2001	-1.993
7	11/23/2001	-2.414	1	11/24/2001	-2.838	5	11/25/2001		5	11/25/2001	-2.684
8	11/23/2001	-2.632	2	11/24/2001	-2.943	6	11/25/2001	-3.099	6	11/25/2001	-2.823
7	11/23/2001	-2.687	3	11/24/2001	-2.621	7	11/25/2001	-2.311	7	11/25/2001	-2.64
8	11/23/2001	-2.282	4	11/24/2001	-2.527	4	11/25/2001	-2.589			
9	11/23/2001	-2.442	5	11/24/2001	-2.426	5	11/25/2001	-2.69			
10	11/23/2001	-2.599	1	11/24/2001	-2.803	6	11/25/2001	-2.423			
11	11/23/2001		2	11/24/2001	-2.832	7	11/25/2001	-3.137			
5	11/23/2001	-2.382	3	11/24/2001	-2.962	8	11/25/2001	-2.912			
6	11/23/2001	-2.31	4	11/24/2001	-2.51	10	11/25/2001	-2.621			
7	11/23/2001	-2.412	5	11/24/2001	-2.584	11	11/25/2001	-2.527			
8	11/23/2001	-2.559	3	11/24/2001	-2.584	12	11/25/2001	-2.476			
9	11/23/2001	-2.511	4	11/24/2001	-2.944	13	11/25/2001	-2.538			
10	11/23/2001	-2.738	5	11/24/2001	-2.742	14	11/25/2001	-2.237			
11	11/23/2001	-2.818	6	11/24/2001	-2.844	10	11/25/2001	-2.793			
12	11/23/2001	-2.513	7	11/24/2001	-2.746	11	11/25/2001	-2.457			
13	11/23/2001	-2.676	4	11/24/2001	-2.417	12	11/25/2001	-2.463			
14	11/23/2001	-2.42	5	11/24/2001	-2.727	13	11/25/2001	-2.501			
3	11/23/2001	-2.792	6	11/24/2001	-2.5	14	11/25/2001	-2.604			
4	11/23/2001	-2.529	7	11/24/2001	-2.696	4	11/25/2001	-2.489			
5	11/23/2001	-2.412	8	11/24/2001	-2.427	5	11/25/2001	-2.469			
6	11/23/2001	-2.389	4	11/25/2001	-2.677	6	11/25/2001	-2.754			
7	11/23/2001	-2.815	5	11/25/2001	-2.729	7	11/25/2001	-2.83			
4	11/23/2001	-2.818	6	11/25/2001	-2.675	8	11/25/2001	-2.67			
5	11/23/2001	-2.501	7	11/25/2001	-2.438	4	11/25/2001	-2.425			
6	11/23/2001	-2.57	8	11/25/2001	-2.562	5	11/25/2001	-3.037			
7	11/23/2001	-2.712	4	11/25/2001	-2.787	6	11/25/2001	-2.314			
8	11/23/2001	-2.458	5	11/25/2001	-2.788	7	11/25/2001	-2.206			
3	11/24/2001	-2.793	6	11/25/2001	-2.622	8	11/25/2001	-2.476			
4	11/24/2001	-2.675	7	11/25/2001	-2.732	1	11/25/2001	-2.731			
5	11/24/2001	-2.284	8	11/25/2001	-2.859	2	11/25/2001	-2.261			
6	11/24/2001	-2.672	5	11/25/2001	-2.472	3	11/25/2001	-2.437			
7	11/24/2001	-2.598	6	11/25/2001	-2.971	4	11/25/2001	-2.418			
1	11/24/2001	-2.422	7	11/25/2001	-2.692	5	11/25/2001	-2.808			
2	11/24/2001	-2.401	8	11/25/2001	-2.806	4	11/25/2001	-2.532			
3	11/24/2001	-2.262	9	11/25/2001	-2.618	5	11/25/2001	-2.233			
4	11/24/2001	-2.65	2	11/25/2001	-2.815	6	11/25/2001	-2.696			

ตารางที่ ค.3 ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
1	11/7/01	0.98	13	11/7/01	0.949	24	11/8/01	0.909
2	11/7/01	0.627	14	11/7/01	0.903	25	11/8/01	1.074
3	11/7/01	0.873	15	11/7/01	0.845	26	11/8/01	1.235
4	11/7/01	0.572	16	11/7/01	1.231	27	11/8/01	1.005
5	11/7/01	0.606	17	11/7/01	1.282	28	11/8/01	1.215
6	11/7/01	0.932	18	11/7/01	1.02	29	11/8/01	1.102
7	11/7/01	1.17	19	11/7/01	1.257	1	11/8/01	1.648
8	11/7/01	1.183	20	11/7/01	1.031	2	11/8/01	1.644
9	11/7/01	0.502	21	11/7/01	0.966	3	11/8/01	1.607
10	11/7/01	1.438	22	11/7/01	0.888	4	11/8/01	1.596
11	11/7/01	1.273	23	11/7/01	0.6	5	11/8/01	1.496
12	11/7/01	0.833	24	11/7/01	0.879	6	11/8/01	1.488
13	11/7/01	1.042	25	11/7/01	0.439	1	11/9/01	1.199
14	11/7/01	1.26	26	11/7/01	1.155	2	11/9/01	1.065
15	11/7/01	0.744	27	11/7/01	1.436	3	11/9/01	1.137
16	11/7/01	1.235	28	11/7/01	1.367	4	11/9/01	0.891
17	11/7/01	0.796	29	11/7/01	0.657	5	11/9/01	0.948
18	11/7/01	0.782	1	11/7/01	1.434	6	11/9/01	1.006
19	11/7/01	1.042	2	11/7/01	1.441	7	11/9/01	0.891
20	11/7/01	1.421	1	11/8/01	1.643	8	11/9/01	1.109
21	11/7/01	1.593	2	11/8/01	1.225	9	11/9/01	1.118
22	11/7/01	0.799	3	11/8/01	1.318	10	11/9/01	1.117
23	11/7/01	0.771	4	11/8/01	0.971	11	11/9/01	0.949
24	11/7/01	0.879	5	11/8/01	1.623	12	11/9/01	1.203
25	11/7/01	0.928	6	11/8/01	1.374	13	11/9/01	0.598
26	11/7/01	0.945	7	11/8/01	0.855	14	11/9/01	0.829
27	11/7/01	0.858	8	11/8/01	0.878	15	11/9/01	1.01
28	11/7/01	1.022	9	11/8/01	0.864	16	11/9/01	1.071
29	11/7/01	0.819	10	11/8/01	0.805	17	11/9/01	1.048
1	11/7/01	1.578	11	11/8/01	0.91	18	11/9/01	1.145
2	11/7/01	1.574	12	11/8/01	0.935	19	11/9/01	0.62
1	11/7/01	1.435	13	11/8/01	1.489	20	11/9/01	0.924
2	11/7/01	1.364	14	11/8/01	0.887	21	11/9/01	0.733
3	11/7/01	1.047	15	11/8/01	0.853	22	11/9/01	1.163
4	11/7/01	1.153	16	11/8/01	0.866	23	11/9/01	0.995
5	11/7/01	0.885	17	11/8/01	1.414	1	11/9/01	0.842
6	11/7/01	1.292	18	11/8/01	1.088	2	11/9/01	0.966
7	11/7/01	1.082	19	11/8/01	0.784	3	11/9/01	0.991
8	11/7/01	1.178	20	11/8/01	1.123	4	11/9/01	1.105
9	11/7/01	1.112	21	11/8/01	1.159	5	11/9/01	1.035
10	11/7/01	1.33	22	11/8/01	1.075	6	11/9/01	1.016
11	11/7/01	1.121	23	11/8/01	0.886	7	11/9/01	0.882

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
8	11/9/01	0.896	21	11/10/01	1.01	5	11/10/01	1.03
9	11/9/01	1.17	22	11/10/01	1.074	6	11/10/01	1.269
10	11/9/01	1.086	23	11/10/01	0.936	7	11/10/01	1.136
11	11/9/01	0.736	24	11/10/01	1.192	8	11/10/01	1.058
12	11/9/01	0.966	25	11/10/01	1.11	9	11/10/01	1.007
13	11/9/01	0.684	26	11/10/01	0.899	10	11/10/01	1.111
14	11/9/01	0.764	27	11/10/01	0.901	11	11/10/01	1.028
15	11/9/01	1.06	28	11/10/01	0.892	12	11/10/01	0.943
16	11/9/01	0.519	29	11/10/01	1.014	13	11/10/01	0.905
17	11/9/01	0.608	1	11/10/01	1.134	14	11/10/01	1.081
18	11/9/01	0.834	2	11/10/01	1.32	15	11/10/01	0.867
19	11/9/01	0.902	3	11/10/01	1.1	16	11/10/01	0.943
20	11/9/01	0.543	4	11/10/01	1.072	17	11/10/01	0.846
21	11/9/01	0.498	5	11/10/01	1.03	18	11/10/01	0.824
22	11/9/01	1.145	6	11/10/01	1.269	19	11/10/01	0.897
23	11/9/01	0.976	7	11/10/01	1.136	20	11/10/01	1.094
24	11/9/01	1.136	8	11/10/01	1.058	21	11/10/01	1.092
25	11/9/01	0.962	9	11/10/01	1.007	22	11/10/01	0.79
26	11/9/01	1.067	10	11/10/01	1.111	23	11/10/01	0.672
27	11/9/01	1.132	11	11/10/01	1.028	24	11/10/01	0.747
28	11/9/01	0.795	12	11/10/01	0.943	25	11/10/01	0.948
29	11/9/01	0.965	13	11/10/01	0.905	26	11/10/01	1.102
1	11/10/01	0.716	14	11/10/01	1.081	27	11/10/01	1.254
2	11/10/01	0.905	15	11/10/01	0.867	28	11/10/01	0.955
3	11/10/01	1.004	16	11/10/01	0.943	29	11/10/01	1.057
4	11/10/01	0.713	17	11/10/01	0.846	1	11/10/01	1.132
5	11/10/01	1.072	18	11/10/01	0.824	2	11/10/01	0.818
6	11/10/01	0.871	19	11/10/01	0.897	3	11/10/01	0.911
7	11/10/01	1.04	20	11/10/01	1.094	4	11/10/01	1.058
8	11/10/01	0.985	21	11/10/01	1.092	5	11/10/01	1.084
9	11/10/01	1.092	22	11/10/01	0.79	6	11/10/01	1.101
10	11/10/01	1.016	23	11/10/01	0.672	7	11/10/01	0.839
11	11/10/01	0.756	24	11/10/01	0.747	8	11/10/01	0.537
12	11/10/01	0.987	25	11/10/01	0.948	9	11/10/01	0.558
13	11/10/01	1.153	26	11/10/01	1.102	10	11/10/01	0.693
14	11/10/01	1.21	27	11/10/01	1.254	11	11/10/01	0.896
15	11/10/01	1.04	28	11/10/01	0.955	12	11/10/01	0.812
16	11/10/01	1.033	29	11/10/01	1.057	13	11/10/01	1.076
17	11/10/01	0.862	1	11/10/01	1.134	14	11/10/01	0.657
18	11/10/01	0.926	2	11/10/01	1.32	15	11/10/01	0.932
19	11/10/01	1.005	3	11/10/01	1.1	16	11/10/01	0.68
20	11/10/01	0.843	4	11/10/01	1.072	17	11/10/01	1.067

ตารางที่ ค.3 ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
18	11/10/01	0.892	2	11/10/01	0.688	15	11/11/01	0.828
19	11/10/01	0.91	3	11/10/01	0.868	16	11/11/01	1.14
20	11/10/01	1.102	4	11/10/01	0.966	17	11/11/01	0.802
21	11/10/01	1.06	5	11/10/01	0.877	18	11/11/01	1.042
22	11/10/01	0.504	6	11/10/01	0.983	19	11/11/01	0.846
23	11/10/01	0.628	7	11/10/01	1.087	20	11/11/01	0.704
24	11/10/01	0.85	8	11/10/01	0.82	21	11/11/01	1.065
25	11/10/01	0.85	9	11/10/01	1.13	22	11/11/01	0.844
26	11/10/01	1.11	10	11/10/01	1.076	23	11/11/01	1.107
27	11/10/01	0.831	11	11/10/01	0.922	1	11/11/01	1.174
28	11/10/01	1.076	12	11/10/01	0.753	2	11/11/01	1.07
29	11/10/01	0.607	13	11/10/01	0.668	3	11/11/01	0.557
1	11/10/01	1.132	14	11/10/01	0.76	4	11/11/01	0.845
2	11/10/01	0.818	15	11/10/01	0.894	5	11/11/01	0.843
3	11/10/01	0.911	16	11/10/01	0.675	6	11/11/01	1.194
4	11/10/01	1.058	17	11/10/01	1.178	7	11/11/01	0.903
5	11/10/01	1.084	18	11/10/01	0.407	8	11/11/01	0.999
6	11/10/01	1.101	19	11/10/01	0.721	9	11/11/01	0.733
7	11/10/01	0.839	20	11/10/01	0.655	10	11/11/01	0.908
8	11/10/01	0.537	21	11/10/01	0.496	11	11/11/01	1.086
9	11/10/01	0.558	22	11/10/01	1.204	12	11/11/01	1.154
10	11/10/01	0.693	23	11/10/01	1.075	13	11/11/01	0.955
11	11/10/01	0.896	24	11/10/01	0.849	14	11/11/01	0.515
12	11/10/01	0.812	25	11/10/01	0.824	15	11/11/01	0.846
13	11/10/01	1.076	26	11/10/01	0.548	16	11/11/01	1.083
14	11/10/01	0.657	27	11/10/01	0.491	17	11/11/01	0.861
15	11/10/01	0.932	28	11/10/01	0.488	18	11/11/01	0.908
16	11/10/01	0.68	29	11/10/01	0.935	19	11/11/01	0.823
17	11/10/01	1.067	1	11/11/01	0.864	20	11/11/01	1.252
18	11/10/01	0.892	2	11/11/01	0.764	21	11/11/01	1.177
19	11/10/01	0.91	3	11/11/01	0.616	22	11/11/01	0.755
20	11/10/01	1.102	4	11/11/01	0.705	23	11/11/01	0.901
21	11/10/01	1.06	5	11/11/01	1.104	24	11/11/01	1.006
22	11/10/01	0.504	6	11/11/01	1.133	25	11/11/01	1.169
23	11/10/01	0.628	7	11/11/01	1.109	26	11/11/01	0.837
24	11/10/01	0.85	8	11/11/01	1.149	27	11/11/01	0.745
25	11/10/01	0.85	9	11/11/01	0.989	28	11/11/01	0.93
26	11/10/01	1.11	10	11/11/01	0.96	29	11/11/01	1.159
27	11/10/01	0.831	11	11/11/01	0.59	1	11/11/01	0.963
28	11/10/01	1.076	12	11/11/01	0.736	2	11/11/01	0.931
29	11/10/01	0.607	13	11/11/01	0.759	3	11/11/01	1.026
1	11/10/01	1.236	14	11/11/01	0.678	4	11/11/01	1.24

ตารางที่ ค.3 ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
5	11/11/01	0.612	18	11/11/01	0.732	2	11/19/2001	1.465
6	11/11/01	1.2	19	11/11/01	1.028	3	11/19/2001	1.148
7	11/11/01	0.808	20	11/11/01	0.664	4	11/19/2001	1.066
8	11/11/01	0.617	21	11/11/01	0.795	5	11/19/2001	1.155
9	11/11/01	0.796	22	11/11/01	0.789	6	11/19/2001	1.102
10	11/11/01	1.012	23	11/11/01	1.067	7	11/19/2001	1.16
11	11/11/01	0.627	24	11/11/01	1.061	8	11/19/2001	1.205
12	11/11/01	1.04	25	11/11/01	0.913	9	11/19/2001	0.984
13	11/11/01	0.897	26	11/11/01	1.348	10	11/19/2001	0.836
14	11/11/01	0.889	27	11/11/01	0.75	11	11/19/2001	0.764
15	11/11/01	0.765	28	11/11/01	0.842	12	11/19/2001	1.363
16	11/11/01	0.667	29	11/11/01	1.128	13	11/19/2001	1.065
17	11/11/01	0.881	1	11/19/2001	1.133	14	11/19/2001	1.19
18	11/11/01	0.737	2	11/19/2001	1.039	15	11/19/2001	1.161
19	11/11/01	1.017	3	11/19/2001	0.995	16	11/19/2001	1.577
20	11/11/01	0.651	4	11/19/2001	1.204	17	11/19/2001	1.109
21	11/11/01	0.408	5	11/19/2001	1.129	18	11/19/2001	1.586
22	11/11/01	1.29	6	11/19/2001	1.172	19	11/19/2001	1.58
23	11/11/01	1.061	7	11/19/2001	1.183	20	11/19/2001	0.896
24	11/11/01	0.999	8	11/19/2001	0.862	21	11/19/2001	1.087
25	11/11/01	0.935	9	11/19/2001	1.17	22	11/19/2001	1.005
26	11/11/01	1.137	10	11/19/2001	0.912	23	11/19/2001	0.966
27	11/11/01	0.737	11	11/19/2001	1.025	24	11/19/2001	1.064
28	11/11/01	0.828	12	11/19/2001	1.165	25	11/19/2001	1.079
29	11/11/01	1.13	13	11/19/2001	1.222	26	11/19/2001	1.205
1	11/11/01	1.027	14	11/19/2001	1.029	27	11/19/2001	1.013
2	11/11/01	0.961	15	11/19/2001	0.901	28	11/19/2001	1.142
3	11/11/01	1.019	16	11/19/2001	1.252	29	11/19/2001	1.008
4	11/11/01	1.251	17	11/19/2001	1.085	1	11/19/2001	1.201
5	11/11/01	0.64	18	11/19/2001	0.758	2	11/19/2001	1.084
6	11/11/01	1.231	19	11/19/2001	0.733	3	11/19/2001	1.149
7	11/11/01	1.013	20	11/19/2001	0.982	4	11/19/2001	1.178
8	11/11/01	0.627	21	11/19/2001	0.953	5	11/19/2001	0.97
9	11/11/01	0.804	22	11/19/2001	0.955	6	11/19/2001	0.903
10	11/11/01	1.02	23	11/19/2001	0.924	7	11/19/2001	0.736
11	11/11/01	0.804	24	11/19/2001	0.891	8	11/19/2001	0.884
12	11/11/01	1.046	25	11/19/2001	1.096	9	11/19/2001	1.062
13	11/11/01	0.933	26	11/19/2001	1.013	10	11/19/2001	1.192
14	11/11/01	0.889	27	11/19/2001	0.959	11	11/19/2001	1.144
15	11/11/01	0.77	28	11/19/2001	1.077	12	11/19/2001	1.019
16	11/11/01	0.77	29	11/19/2001	1.051	13	11/19/2001	1.117
17	11/11/01	0.894	1	11/19/2001	1.147	14	11/19/2001	1.358

ตารางที่ ค.3 ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
15	11/19/2001	1.436	28	11/19/2001	1.163	12	11/19/2001	1.235	25	11/20/2001	1.062
16	11/19/2001	1.35	29	11/19/2001	1.008	13	11/19/2001	1.155	26	11/20/2001	1.097
17	11/19/2001	1.132	1	11/19/2001	1.235	14	11/19/2001	1.15	27	11/20/2001	1.084
18	11/19/2001	1.508	2	11/19/2001	1.117	15	11/19/2001	1.335	28	11/20/2001	0.73
19	11/19/2001	1.097	3	11/19/2001	1.117	16	11/20/2001	1.097	29	11/20/2001	1.098
20	11/19/2001	0.697	4	11/19/2001	1.329	17	11/20/2001	1.123	1	11/20/2001	1.048
21	11/19/2001	1.04	5	11/19/2001	1.205	18	11/20/2001	1.029	2	11/20/2001	0.929
22	11/19/2001	0.485	6	11/19/2001	1.286	19	11/20/2001	0.981	3	11/20/2001	0.663
23	11/19/2001	1.154	7	11/19/2001	1.252	20	11/20/2001	0.96	4	11/20/2001	1.317
24	11/19/2001	0.595	8	11/19/2001	1.332	21	11/20/2001	0.897	5	11/20/2001	1.087
25	11/19/2001	1.306	9	11/19/2001	0.865	22	11/20/2001	0.965	6	11/20/2001	1.165
26	11/19/2001	1.272	10	11/19/2001	0.99	23	11/20/2001	1.068	7	11/20/2001	1.052
27	11/19/2001	1.143	11	11/19/2001	1.185	24	11/20/2001	1.124	8	11/20/2001	1.012
28	11/19/2001	0.484	12	11/19/2001	0.947	25	11/20/2001	0.825	9	11/20/2001	1.046
29	11/19/2001	1.152	13	11/19/2001	1.113	26	11/20/2001	0.998	10	11/20/2001	0.795
1	11/19/2001	1.265	14	11/19/2001	1.211	27	11/20/2001	1.156	11	11/20/2001	1.024
2	11/19/2001	0.701	15	11/19/2001	1.456	28	11/20/2001	1.196	12	11/20/2001	1.062
3	11/19/2001	0.639	16	11/19/2001	1.066	29	11/20/2001	1.053	13	11/20/2001	0.73
4	11/19/2001	1.203	17	11/19/2001	0.905	1	11/20/2001	1.364	14	11/20/2001	0.898
5	11/19/2001	1.317	18	11/19/2001	0.957	2	11/20/2001	1.022	15	11/20/2001	0.608
6	11/19/2001	1.248	19	11/19/2001	0.822	3	11/20/2001	0.926	16	11/20/2001	1.033
7	11/19/2001	1.201	20	11/19/2001	1.231	4	11/20/2001	1.109	17	11/20/2001	1.09
8	11/19/2001	1.173	21	11/19/2001	1.196	5	11/20/2001	0.943	18	11/20/2001	1.04
9	11/19/2001	1.209	22	11/19/2001	1.236	6	11/20/2001	1.195	19	11/20/2001	0.87
10	11/19/2001	1.019	23	11/19/2001	1.008	7	11/20/2001	1.157	20	11/20/2001	1.201
11	11/19/2001	1.315	24	11/19/2001	1.129	8	11/20/2001	1.094	21	11/20/2001	1.563
12	11/19/2001	0.576	25	11/19/2001	1.066	9	11/20/2001	0.902	22	11/20/2001	1.35
13	11/19/2001	1.055	26	11/19/2001	1.143	10	11/20/2001	0.97	23	11/20/2001	1.303
14	11/19/2001	1.502	27	11/19/2001	1.242	11	11/20/2001	1.181	24	11/20/2001	1.137
15	11/19/2001	1.482	28	11/19/2001	1.473	12	11/20/2001	0.864	25	11/20/2001	1.173
16	11/19/2001	1.271	29	11/19/2001	1.007	13	11/20/2001	0.947	26	11/20/2001	0.985
17	11/19/2001	1.089	1	11/19/2001	1.304	14	11/20/2001	1.201	27	11/20/2001	1.091
18	11/19/2001	0.948	2	11/19/2001	1.241	15	11/20/2001	1.08	28	11/20/2001	1.31
19	11/19/2001	1.181	3	11/19/2001	1.011	16	11/20/2001	0.615	29	11/20/2001	1.145
20	11/19/2001	1.284	4	11/19/2001	1.092	17	11/20/2001	1.049	1	11/20/2001	1.015
21	11/19/2001	1.139	5	11/19/2001	1.147	18	11/20/2001	0.93	2	11/20/2001	0.975
22	11/19/2001	1.382	6	11/19/2001	1.16	19	11/20/2001	1.06	3	11/20/2001	1.242
23	11/19/2001	1.21	7	11/19/2001	1.258	20	11/20/2001	0.986	4	11/20/2001	1.017
24	11/19/2001	0.957	8	11/19/2001	1.011	21	11/20/2001	1.046	5	11/20/2001	1.063
25	11/19/2001	0.962	9	11/19/2001	1.22	22	11/20/2001	0.871	6	11/20/2001	1.028
26	11/19/2001	0.983	10	11/19/2001	0.999	23	11/20/2001	0.764	7	11/20/2001	1.096
27	11/19/2001	1.1	11	11/19/2001	1.059	24	11/20/2001	1.054	8	11/20/2001	0.95

ตารางที่ ก.3 ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
9	11/20/2001	0.953	22	11/20/2001	0.718	6	11/20/2001	1.018	19	11/20/2001	1.101
10	11/20/2001	1.176	23	11/20/2001	1.08	7	11/20/2001	1.08	20	11/21/2001	1.375
11	11/20/2001	1.033	24	11/20/2001	1.115	8	11/20/2001	1.092	21	11/21/2001	1.144
12	11/20/2001	1.062	25	11/20/2001	1.198	9	11/20/2001	0.866	22	11/21/2001	1.209
13	11/20/2001	1.002	26	11/20/2001	1.135	10	11/20/2001	1.11	23	11/21/2001	1.036
14	11/20/2001	1.168	27	11/20/2001	0.854	11	11/23/2001	0.849	24	11/21/2001	1.116
15	11/20/2001	0.951	28	11/20/2001	0.987	12	11/20/2001	1.31	25	11/21/2001	1.329
16	11/20/2001	1.562	29	11/20/2001	1.246	13	11/20/2001	1.008	26	11/21/2001	0.909
17	11/20/2001	1.553	1	11/20/2001	1.071	14	11/20/2001	0.898	27	11/21/2001	0.945
18	11/20/2001	1.096	2	11/20/2001	0.945	15	11/20/2001	1.087	28	11/21/2001	1.045
19	11/20/2001	1.025	3	11/20/2001	1.225	16	11/20/2001	0.917	29	11/21/2001	1.089
20	11/20/2001	1.098	4	11/20/2001	0.596	17	11/20/2001	0.991	1	11/21/2001	1.074
21	11/20/2001	1.124	5	11/20/2001	0.812	18	11/20/2001	0.911	2	11/21/2001	0.998
22	11/20/2001	1.229	6	11/20/2001	1.044	19	11/20/2001	0.821	3	11/21/2001	1.29
23	11/20/2001	1.093	7	11/20/2001	1.047	20	11/20/2001	1.092	4	11/21/2001	1.412
24	11/20/2001	0.934	8	11/20/2001	1.065	21	11/20/2001	0.896	5	11/21/2001	0.961
25	11/20/2001	0.824	9	11/20/2001	0.897	22	11/20/2001	1.269	6	11/21/2001	1.151
26	11/20/2001	1.229	10	11/20/2001	1.063	23	11/20/2001	1.076	7	11/21/2001	1.116
27	11/20/2001	1.053	11	11/20/2001	0.824	24	11/20/2001	1.018	8	11/21/2001	1.181
28	11/20/2001	1.062	12	11/20/2001	1.088	25	11/20/2001	1.091	9	11/21/2001	1.221
29	11/20/2001	0.792	13	11/20/2001	1.111	26	11/20/2001	1.088	10	11/21/2001	1.071
1	11/20/2001	1.125	14	11/20/2001	1.201	27	11/20/2001	0.817	11	11/21/2001	0.965
2	11/20/2001	0.925	15	11/20/2001	1.529	28	11/20/2001	1.25	12	11/21/2001	1.001
3	11/20/2001	0.97	16	11/20/2001	1.11	29	11/20/2001	1.13	13	11/21/2001	1.388
4	11/20/2001	1.11	17	11/20/2001	1.07	1	11/20/2001	0.991	14	11/21/2001	0.977
5	11/20/2001	1.352	18	11/20/2001	1.354	2	11/20/2001	0.865	15	11/21/2001	0.901
6	11/20/2001	0.981	19	11/20/2001	1.366	3	11/20/2001	0.887	16	11/21/2001	1.517
7	11/20/2001	1.18	20	11/20/2001	1.212	4	11/20/2001	0.825	17	11/21/2001	1.099
8	11/20/2001	1.188	21	11/20/2001	1.008	5	11/20/2001	1.307	18	11/21/2001	1.299
9	11/20/2001	0.958	22	11/20/2001	0.763	6	11/20/2001	1.126	19	11/21/2001	1.104
10	11/20/2001	1.063	23	11/20/2001	1.229	7	11/20/2001	0.915	20	11/21/2001	1.515
11	11/20/2001	0.959	24	11/20/2001	1.149	8	11/20/2001	1.12	21	11/21/2001	1.511
12	11/20/2001	0.991	25	11/20/2001	0.84	9	11/20/2001	1.135	22	11/21/2001	1.076
13	11/20/2001	1.326	26	11/20/2001	1.061	10	11/20/2001	1.105	23	11/21/2001	1.132
14	11/20/2001	1.046	27	11/20/2001	1.156	11	11/20/2001	1.066	24	11/21/2001	0.803
15	11/20/2001	0.969	28	11/20/2001	0.832	12	11/20/2001	1.153	25	11/21/2001	0.984
16	11/20/2001	1.103	29	11/20/2001	1.262	13	11/20/2001	1.383	26	11/21/2001	1.087
17	11/20/2001	1.098	1	11/20/2001	1.112	14	11/20/2001	1.066	27	11/21/2001	1.023
18	11/20/2001	0.968	2	11/20/2001	0.933	15	11/20/2001	0.989	28	11/21/2001	0.786
19	11/20/2001	0.985	3	11/20/2001	1.105	16	11/20/2001	1.06	29	11/21/2001	0.971
20	11/20/2001	1.228	4	11/20/2001	0.638	17	11/20/2001	1.097	1	11/21/2001	1.081
21	11/20/2001	0.495	5	11/20/2001	0.996	18	11/20/2001	1.07	2	11/21/2001	1.077

ตารางที่ ๓.3 ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
3	11/21/2001	1.149	16	11/21/2001	1.204	29	11/21/2001	1.018	13	11/21/2001	0.87
4	11/21/2001	1.013	17	11/21/2001	1.221	1	11/21/2001	0.825	14	11/21/2001	0.849
5	11/21/2001	0.957	18	11/21/2001	1.064	2	11/21/2001	1.069	15	11/21/2001	0.82
6	11/21/2001	1.064	19	11/21/2001	1.021	3	11/21/2001	1.019	16	11/21/2001	0.919
7	11/21/2001	0.781	20	11/21/2001	1.108	4	11/21/2001	0.932	17	11/21/2001	1.058
8	11/21/2001	0.992	21	11/21/2001	1.02	5	11/21/2001	0.804	18	11/21/2001	1.08
9	11/21/2001	1.064	22	11/21/2001	1.107	6	11/21/2001	1.105	19	11/21/2001	0.83
10	11/21/2001	1.116	23	11/21/2001	0.839	7	11/21/2001	1.02	20	11/21/2001	0.555
11	11/21/2001	1.067	24	11/21/2001	0.812	8	11/21/2001	1.024	21	11/21/2001	0.568
12	11/21/2001	1.039	25	11/21/2001	1.015	9	11/21/2001	1.052	22	11/21/2001	1.12
13	11/21/2001	0.99	26	11/21/2001	1.047	10	11/21/2001	0.911	23	11/21/2001	0.549
14	11/21/2001	1.034	27	11/21/2001	0.979	11	11/21/2001	1.134	24	11/21/2001	0.937
15	11/21/2001	1.037	28	11/21/2001	1.13	12	11/21/2001	0.98	25	11/21/2001	1.103
16	11/21/2001	1.079	29	11/21/2001	1.114	13	11/21/2001	1.053	26	11/21/2001	0.534
17	11/21/2001	0.896	1	11/21/2001	0.733	14	11/21/2001	1.188	27	11/21/2001	0.731
18	11/21/2001	0.958	2	11/21/2001	0.64	15	11/21/2001	1.309	28	11/21/2001	0.995
19	11/21/2001	1.136	3	11/21/2001	0.77	16	11/21/2001	1.319	29	11/21/2001	0.994
20	11/21/2001	1.094	4	11/21/2001	1.039	17	11/21/2001	1.472	1	11/21/2001	0.756
21	11/21/2001	1.06	5	11/21/2001	0.752	18	11/21/2001	1.502	2	11/21/2001	1.014
22	11/21/2001	1.014	6	11/21/2001	0.635	19	11/21/2001	1.476	3	11/21/2001	0.743
23	11/21/2001	1.204	7	11/21/2001	0.64	20	11/21/2001	1.391	4	11/21/2001	1.151
24	11/21/2001	1.176	8	11/21/2001	0.777	21	11/21/2001	1.211	5	11/21/2001	1.108
25	11/21/2001	1.182	9	11/21/2001	1.104	22	11/21/2001	1.189	6	11/21/2001	0.856
26	11/21/2001	1.082	10	11/21/2001	1.018	23	11/21/2001	1.133	7	11/21/2001	1.139
27	11/21/2001	1.068	11	11/21/2001	0.825	24	11/21/2001	0.966	8	11/21/2001	1.181
28	11/21/2001	1.029	12	11/21/2001	1.107	25	11/21/2001	0.95	9	11/21/2001	1.052
29	11/21/2001	0.98	13	11/21/2001	0.839	26	11/21/2001	1.091	10	11/21/2001	1.149
1	11/21/2001	1.289	14	11/21/2001	0.812	27	11/21/2001	1.007	11	11/21/2001	1.216
2	11/21/2001	1.279	15	11/21/2001	1.015	28	11/21/2001	0.958	12	11/21/2001	0.925
3	11/21/2001	1.05	16	11/21/2001	1.047	29	11/21/2001	1.212	13	11/21/2001	1.373
4	11/21/2001	0.852	17	11/21/2001	0.979	1	11/21/2001	1.056	14	11/21/2001	1.193
5	11/21/2001	1.203	18	11/21/2001	1.13	2	11/21/2001	0.971	15	11/21/2001	1.075
6	11/21/2001	1.468	19	11/21/2001	1.114	3	11/21/2001	1.146	16	11/21/2001	1.107
7	11/21/2001	1.233	20	11/21/2001	0.733	4	11/21/2001	0.93	17	11/21/2001	1.05
8	11/21/2001	1.148	21	11/21/2001	0.64	5	11/21/2001	1.447	18	11/21/2001	0.837
9	11/21/2001	1.065	22	11/21/2001	0.77	6	11/21/2001	1.453	19	11/21/2001	0.991
10	11/21/2001	0.868	23	11/21/2001	1.039	7	11/21/2001	1.093	20	11/21/2001	1.078
11	11/21/2001	0.978	24	11/21/2001	0.752	8	11/21/2001	0.641	21	11/21/2001	0.989
12	11/21/2001	1.256	25	11/21/2001	0.635	9	11/21/2001	0.893	22	11/21/2001	1.182
13	11/21/2001	1.297	26	11/21/2001	0.64	10	11/21/2001	0.95	23	11/21/2001	1.175
14	11/21/2001	1.179	27	11/21/2001	0.777	11	11/21/2001	0.844	24	11/21/2001	1.09
15	11/21/2001	1.213	28	11/21/2001	1.104	12	11/21/2001	1.057	25	11/21/2001	1.259



ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
26	11/21/2001	0.948	10	11/21/2001	0.996	23	11/21/2001	1.141	7	11/21/2001	0.986
27	11/21/2001	1.048	11	11/21/2001	1.028	24	11/21/2001	1.1	8	11/21/2001	1.093
28	11/21/2001	1.116	12	11/21/2001	0.948	25	11/21/2001	1.061	9	11/21/2001	1.083
29	11/21/2001	1.198	13	11/21/2001	1.209	26	11/21/2001	1.082	10	11/21/2001	1.223
1	11/21/2001	0.59	14	11/21/2001	1.543	27	11/21/2001	1.106	11	11/21/2001	1.073
2	11/21/2001	0.869	15	11/21/2001	1.506	28	11/21/2001	0.917	12	11/21/2001	1.221
3	11/21/2001	1.147	16	11/21/2001	1.177	29	11/21/2001	1.105	13	11/21/2001	1.124
4	11/21/2001	0.905	17	11/21/2001	1.017	1	11/21/2001	1.112	14	11/21/2001	1.233
5	11/21/2001	1.071	18	11/21/2001	1.37	2	11/21/2001	0.931	15	11/21/2001	1.041
6	11/21/2001	1.197	19	11/21/2001	1.144	3	11/21/2001	0.941	16	11/21/2001	0.969
7	11/21/2001	1.044	20	11/21/2001	1.107	4	11/21/2001	0.71	17	11/21/2001	0.964
8	11/21/2001	0.965	21	11/21/2001	1.228	5	11/21/2001	1.165	18	11/21/2001	1.22
9	11/21/2001	0.841	22	11/21/2001	1.066	6	11/21/2001	1.06	19	11/21/2001	1.034
10	11/21/2001	1.036	23	11/21/2001	1.1	7	11/21/2001	1.065	20	11/21/2001	1.22
11	11/21/2001	1.023	24	11/21/2001	0.903	8	11/21/2001	1.13	21	11/21/2001	0.692
12	11/21/2001	1.146	25	11/21/2001	1.111	9	11/21/2001	1.086	22	11/21/2001	0.908
13	11/21/2001	0.99	26	11/21/2001	1.215	10	11/21/2001	1.141	23	11/21/2001	1.04
14	11/21/2001	1.041	27	11/21/2001	1.049	11	11/21/2001	1.024	24	11/21/2001	1.251
15	11/21/2001	1.056	28	11/21/2001	1.115	12	11/21/2001	1.231	25	11/21/2001	1.103
16	11/21/2001	0.914	29	11/21/2001	0.953	13	11/21/2001	0.898	26	11/21/2001	1.094
17	11/21/2001	1.055	1	11/21/2001	0.596	14	11/21/2001	1.124	27	11/21/2001	1.444
18	11/21/2001	1.072	2	11/21/2001	1.169	15	11/21/2001	1.081	28	11/21/2001	1.528
19	11/21/2001	0.894	3	11/21/2001	1.315	16	11/21/2001	1.222	29	11/21/2001	1.171
20	11/21/2001	1.012	4	11/21/2001	1.147	17	11/21/2001	0.972	1	11/21/2001	1.42
21	11/21/2001	0.941	5	11/21/2001	1.096	18	11/21/2001	1.277	2	11/21/2001	1.276
22	11/21/2001	1.015	6	11/21/2001	1.398	19	11/21/2001	1.104	3	11/21/2001	1.202
23	11/21/2001	1.077	7	11/21/2001	1.524	20	11/21/2001	1.031	4	11/21/2001	1.224
24	11/21/2001	0.94	8	11/21/2001	1.533	21	11/21/2001	1.028	5	11/21/2001	0.834
25	11/21/2001	1.04	9	11/21/2001	1.546	22	11/21/2001	1.196	6	11/21/2001	1.144
26	11/21/2001	0.985	10	11/21/2001	1.546	23	11/21/2001	1.148	7	11/21/2001	1.24
27	11/21/2001	0.975	11	11/21/2001	1.071	24	11/21/2001	1.171	8	11/21/2001	1.187
28	11/21/2001	1.143	12	11/21/2001	1.059	25	11/21/2001	1.019	9	11/21/2001	1.27
29	11/21/2001	1.046	13	11/21/2001	1.064	26	11/21/2001	1.082	10	11/21/2001	1.035
1	11/21/2001	1.051	14	11/21/2001	0.997	27	11/21/2001	1.103	11	11/21/2001	1.517
2	11/21/2001	1.129	15	11/21/2001	1.013	28	11/21/2001	1.072	12	11/21/2001	1.523
3	11/21/2001	1.095	16	11/21/2001	0.934	29	11/21/2001	1.244	13	11/21/2001	1.145
4	11/21/2001	1.221	17	11/21/2001	1.243	1	11/21/2001	1.188	14	11/21/2001	1.133
5	11/21/2001	1.049	18	11/21/2001	0.723	2	11/21/2001	1.34	15	11/21/2001	1.117
6	11/21/2001	0.674	19	11/21/2001	0.963	3	11/21/2001	0.87	16	11/21/2001	0.986
7	11/21/2001	1.177	20	11/21/2001	0.929	4	11/21/2001	1.108	17	11/21/2001	1.089
8	11/21/2001	1.145	21	11/21/2001	0.935	5	11/21/2001	1.179	18	11/21/2001	0.984
9	11/21/2001	0.891	22	11/21/2001	0.563	6	11/21/2001	1.342	19	11/21/2001	0.977

## ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
20	11/21/2001	1.043	4	11/22/2001	0.945	17	11/22/2001	0.844	1	11/22/2001	1.078
21	11/21/2001	0.73	5	11/22/2001	1.269	18	11/22/2001	1.029	2	11/22/2001	1.041
22	11/21/2001	1.015	6	11/22/2001	0.948	19	11/22/2001	0.984	3	11/22/2001	0.976
23	11/21/2001	0.992	7	11/22/2001	0.996	20	11/22/2001	0.917	4	11/22/2001	1.011
24	11/21/2001	0.973	8	11/22/2001	1.421	21	11/22/2001	0.987	5	11/22/2001	1.231
25	11/21/2001	0.832	9	11/22/2001	1.421	22	11/22/2001	0.775	6	11/22/2001	1.083
26	11/21/2001	1.125	10	11/22/2001	1.267	23	11/22/2001	0.704	7	11/22/2001	1.335
27	11/21/2001	1.067	11	11/22/2001	1.009	24	11/22/2001	1.01	8	11/22/2001	1.13
28	11/21/2001	1.1	12	11/22/2001	1.08	25	11/22/2001	0.869	9	11/22/2001	1.029
29	11/21/2001	1.042	13	11/22/2001	1.59	26	11/22/2001	0.922	10	11/22/2001	1.061
1	11/21/2001	0.983	14	11/22/2001	1.59	27	11/22/2001	0.924	11	11/22/2001	1.511
2	11/21/2001	0.822	15	11/22/2001	1.033	28	11/22/2001	0.93	12	11/22/2001	0.893
3	11/21/2001	0.976	16	11/22/2001	0.781	29	11/22/2001	0.934	13	11/22/2001	1.05
4	11/21/2001	1.116	17	11/22/2001	0.992	1	11/22/2001	1.024	14	11/22/2001	1.186
5	11/21/2001	0.882	18	11/22/2001	0.93	2	11/22/2001	0.993	15	11/22/2001	1.201
6	11/21/2001	1.038	19	11/22/2001	0.976	3	11/22/2001	0.982	16	11/22/2001	0.814
7	11/21/2001	1.218	20	11/22/2001	1.047	4	11/22/2001	0.864	17	11/22/2001	1.01
8	11/21/2001	1.04	21	11/22/2001	0.969	5	11/22/2001	1.026	18	11/22/2001	0.94
9	11/21/2001	0.977	22	11/22/2001	0.959	6	11/22/2001	0.932	19	11/22/2001	0.889
10	11/21/2001	0.972	23	11/22/2001	0.999	7	11/22/2001	0.992	20	11/22/2001	1.012
11	11/21/2001	1.112	24	11/22/2001	0.995	8	11/22/2001	1.014	21	11/22/2001	1.301
12	11/21/2001	1.153	25	11/22/2001	1.028	9	11/22/2001	0.915	22	11/22/2001	0.932
13	11/22/2001	1.381	26	11/22/2001	1.032	10	11/22/2001	1.122	23	11/22/2001	0.512
14	11/22/2001	1.051	27	11/22/2001	1.144	11	11/22/2001	0.965	24	11/22/2001	0.729
15	11/22/2001	1.136	28	11/22/2001	1.024	12	11/22/2001	1.11	25	11/22/2001	1.098
16	11/22/2001	0.958	29	11/22/2001	1.077	13	11/22/2001	1.099	26	11/22/2001	1.193
17	11/22/2001	1.109	1	11/22/2001	0.996	14	11/22/2001	0.623	27	11/22/2001	1.212
18	11/22/2001	1.258	2	11/22/2001	1.059	15	11/22/2001	0.969	28	11/22/2001	1.141
19	11/22/2001	1.061	3	11/22/2001	0.843	16	11/22/2001	0.977	29	11/22/2001	1.098
20	11/22/2001	1.169	4	11/22/2001	0.962	17	11/22/2001	1.107	1	11/22/2001	1.317
21	11/22/2001	1.255	5	11/22/2001	0.998	18	11/22/2001	0.959	2	11/22/2001	0.614
22	11/22/2001	1.123	6	11/22/2001	1.03	19	11/22/2001	1.059	3	11/22/2001	1.517
23	11/22/2001	1.233	7	11/22/2001	0.987	20	11/22/2001	0.893	4	11/22/2001	1.534
24	11/22/2001	1.199	8	11/22/2001	1.029	21	11/22/2001	1.104	5	11/22/2001	1.112
25	11/22/2001	0.994	9	11/22/2001	0.968	22	11/22/2001	0.979	6	11/22/2001	1.035
26	11/22/2001	1.058	10	11/22/2001	0.928	23	11/22/2001	0.963	7	11/22/2001	1.127
27	11/22/2001	0.954	11	11/22/2001	0.733	24	11/22/2001	1.049	8	11/22/2001	1.047
28	11/22/2001	1.422	12	11/22/2001	0.777	25	11/22/2001	1.001	9	11/22/2001	0.987
29	11/22/2001	1.597	13	11/22/2001	0.809	26	11/22/2001	0.968	10	11/22/2001	0.918
1	11/22/2001	1.397	14	11/22/2001	0.852	27	11/22/2001	1.239	11	11/22/2001	1.02
2	11/22/2001	1.162	15	11/22/2001	0.962	28	11/22/2001	0.973	12	11/22/2001	0.951
3	11/22/2001	1.137	16	11/22/2001	0.931	29	11/22/2001	1.039	13	11/22/2001	1.012

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
14	11/22/2001	0.977	27	11/22/2001	1.221	11	11/23/2001	0.905	24	11/23/2001	0.931
15	11/22/2001	0.905	28	11/22/2001	1.05	12	11/23/2001	0.981	25	11/23/2001	0.873
16	11/22/2001	0.964	29	11/22/2001	0.975	13	11/23/2001	0.713	26	11/23/2001	0.97
17	11/22/2001	0.942	1	11/22/2001	1.079	14	11/23/2001	0.981	27	11/23/2001	0.989
18	11/22/2001	1.153	2	11/22/2001	0.795	15	11/23/2001	1.1	28	11/23/2001	0.928
19	11/22/2001	1.13	3	11/22/2001	0.953	16	11/23/2001	1.011	29	11/23/2001	0.878
20	11/22/2001	1.07	4	11/22/2001	0.949	17	11/23/2001	0.852	1	11/23/2001	1.027
21	11/22/2001	1.051	5	11/23/2001	1.094	18	11/23/2001	0.923	2	11/23/2001	0.964
22	11/22/2001	1.005	6	11/23/2001	1.119	19	11/23/2001	0.734	3	11/23/2001	0.982
23	11/22/2001	1.036	7	11/23/2001	0.981	20	11/23/2001	1.042	4	11/23/2001	1.05
24	11/22/2001	0.733	8	11/23/2001	1.097	21	11/23/2001	1.08	5	11/23/2001	0.728
25	11/22/2001	1.004	9	11/23/2001	1.218	22	11/23/2001	1.056	6	11/23/2001	0.862
26	11/22/2001	1.083	10	11/23/2001	1.236	23	11/23/2001	0.955	7	11/23/2001	0.824
27	11/22/2001	1.025	11	11/23/2001	0.895	24	11/23/2001	1.033	8	11/23/2001	1.013
28	11/22/2001	1.045	12	11/23/2001	0.885	25	11/23/2001	0.911	9	11/23/2001	0.895
29	11/22/2001	1.153	13	11/23/2001	1.052	26	11/23/2001	1.021	10	11/23/2001	0.975
1	11/22/2001	1.085	14	11/23/2001	1.042	27	11/23/2001	0.7	11	11/23/2001	0.836
2	11/22/2001	1.048	15	11/23/2001	0.835	28	11/23/2001	0.774	12	11/23/2001	0.931
3	11/22/2001	1.003	16	11/23/2001	0.744	29	11/23/2001	0.886	13	11/23/2001	1.018
4	11/22/2001	1.007	17	11/23/2001	1.086	1	11/23/2001	0.762	14	11/23/2001	0.949
5	11/22/2001	1.287	18	11/23/2001	0.957	2	11/23/2001	1.08	15	11/23/2001	0.862
6	11/22/2001	1.219	19	11/23/2001	1.103	3	11/23/2001	0.962	16	11/23/2001	0.799
7	11/22/2001	1.098	20	11/23/2001	1.147	4	11/23/2001	0.909	17	11/23/2001	0.984
8	11/22/2001	0.916	21	11/23/2001	1.074	5	11/23/2001	0.981	18	11/23/2001	0.671
9	11/22/2001	0.984	22	11/23/2001	1.298	6	11/23/2001	0.905	19	11/23/2001	0.775
10	11/22/2001	0.921	23	11/23/2001	1.281	7	11/23/2001	0.749	20	11/23/2001	0.995
11	11/22/2001	1.097	24	11/23/2001	1.226	8	11/23/2001	0.786	21	11/23/2001	0.862
12	11/22/2001	1.043	25	11/23/2001	1.119	9	11/23/2001	0.831	22	11/23/2001	0.945
13	11/22/2001	1.034	26	11/23/2001	1.034	10	11/23/2001	0.84	23	11/23/2001	0.908
14	11/22/2001	1.152	27	11/23/2001	0.987	11	11/23/2001	0.973	24	11/23/2001	0.91
15	11/22/2001	1.214	28	11/23/2001	1.013	12	11/23/2001	0.921	25	11/23/2001	0.913
16	11/22/2001	0.995	29	11/23/2001	0.984	13	11/23/2001	0.856	26	11/23/2001	1.285
17	11/22/2001	0.678	1	11/23/2001	1.363	14	11/23/2001	1.015	27	11/23/2001	1.014
18	11/22/2001	0.631	2	11/23/2001	1.137	15	11/23/2001	0.962	28	11/23/2001	1.207
19	11/22/2001	1.085	3	11/23/2001	1.134	16	11/23/2001	0.96	29	11/23/2001	1.078
20	11/22/2001	1.029	4	11/23/2001	1.095	17	11/23/2001	0.76	1	11/23/2001	0.822
21	11/22/2001	0.906	5	11/23/2001	1.005	18	11/23/2001	0.756	2	11/23/2001	1.442
22	11/22/2001	0.883	6	11/23/2001	1.077	19	11/23/2001	0.649	3	11/23/2001	1.215
23	11/22/2001	1.003	7	11/23/2001	0.892	20	11/23/2001	0.958	4	11/23/2001	0.624
24	11/22/2001	0.929	8	11/23/2001	0.841	21	11/23/2001	0.865	5	11/23/2001	0.945
25	11/22/2001	0.971	9	11/23/2001	1	22	11/23/2001	0.918	6	11/23/2001	1.113
26	11/22/2001	0.858	10	11/23/2001	1.005	23	11/23/2001	0.874	7	11/23/2001	1.008

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
8	11/23/2001	0.948	21	11/23/2001	1.158	5	11/23/2001	0.791	18	11/23/2001	0.978
9	11/23/2001	1.053	22	11/23/2001	1.191	6	11/23/2001	1.233	19	11/23/2001	0.738
10	11/23/2001	1.196	23	11/23/2001	0.485	7	11/23/2001	1.312	20	11/23/2001	1.126
11	11/23/2001	1.284	24	11/23/2001	0.786	8	11/23/2001	0.82	21	11/23/2001	1.069
12	11/23/2001	1.034	25	11/23/2001	1.021	9	11/23/2001	0.961	22	11/23/2001	0.898
13	11/23/2001	1.245	26	11/23/2001	0.811	10	11/23/2001	0.79	23	11/23/2001	1.262
14	11/23/2001	1.102	27	11/23/2001	0.986	11	11/23/2001	1.054	24	11/23/2001	0.943
15	11/23/2001	0.891	28	11/23/2001	1.139	12	11/23/2001	1.35	25	11/23/2001	0.835
16	11/23/2001	1.156	29	11/23/2001	1.15	13	11/23/2001	1.032	26	11/23/2001	1.02
17	11/23/2001	1.19	1	11/23/2001	0.899	14	11/23/2001	0.747	27	11/23/2001	0.887
18	11/23/2001	1.17	2	11/23/2001	0.565	15	11/23/2001	0.812	28	11/23/2001	0.891
19	11/23/2001	0.812	3	11/23/2001	1.249	16	11/23/2001	0.701	29	11/23/2001	1.279
20	11/23/2001	0.933	4	11/23/2001	1.238	17	11/23/2001	0.776	1	11/23/2001	0.616
21	11/23/2001	0.853	5	11/23/2001	1.124	18	11/23/2001	0.568	2	11/23/2001	0.757
22	11/23/2001	1.229	6	11/23/2001	1.089	19	11/23/2001	0.777	3	11/23/2001	1.192
23	11/23/2001	0.82	7	11/23/2001	1.083	20	11/23/2001	1.267	4	11/23/2001	1.081
24	11/23/2001	0.967	8	11/23/2001	0.915	21	11/23/2001	1.342	5	11/23/2001	1.177
25	11/23/2001	1.032	9	11/23/2001	1.143	22	11/23/2001	1.106	6	11/23/2001	1.135
26	11/23/2001	0.997	10	11/23/2001	1.079	23	11/23/2001	1.058	7	11/23/2001	0.832
27	11/23/2001	1.063	11	11/23/2001	0.825	24	11/23/2001	1.259	8	11/23/2001	1.079
28	11/23/2001	1.255	12	11/23/2001	0.873	25	11/23/2001	1.184	9	11/23/2001	0.66
29	11/23/2001	1.168	13	11/23/2001	1.008	26	11/23/2001	0.878	10	11/23/2001	0.693
1	11/23/2001	0.987	14	11/23/2001	1.003	27	11/23/2001	1.316	11	11/23/2001	0.673
2	11/23/2001	1.096	15	11/23/2001	0.953	28	11/23/2001	1.368	12	11/23/2001	1.05
3	11/23/2001	1.251	16	11/23/2001	1.068	29	11/23/2001	1.522	13	11/23/2001	0.885
4	11/23/2001	0.906	17	11/23/2001	1.025	1	11/23/2001	1.066	14	11/23/2001	1.155
5	11/23/2001	0.9	18	11/23/2001	0.893	2	11/23/2001	1.246	15	11/23/2001	0.889
6	11/23/2001	0.474	19	11/23/2001	0.978	3	11/23/2001	1.062	16	11/23/2001	1.131
7	11/23/2001	1.143	20	11/23/2001	1.152	4	11/23/2001	1.071	17	11/23/2001	0.877
8	11/23/2001	0.897	21	11/23/2001	1.122	5	11/23/2001	1.524	18	11/23/2001	0.393
9	11/23/2001	0.819	22	11/23/2001	0.989	6	11/23/2001	1.521	19	11/23/2001	0.697
10	11/23/2001	0.746	23	11/23/2001	1	7	11/23/2001	1.109	20	11/23/2001	0.961
11	11/23/2001	1.212	24	11/23/2001	0.916	8	11/23/2001	1.233	21	11/23/2001	1.133
12	11/23/2001	1.046	25	11/23/2001	0.906	9	11/23/2001	0.886	22	11/23/2001	0.702
13	11/23/2001	1.149	26	11/23/2001	0.934	10	11/23/2001	0.913	23	11/23/2001	0.757
14	11/23/2001	0.942	27	11/23/2001	0.891	11	11/23/2001	1.008	24	11/23/2001	1.026
15	11/23/2001	0.872	28	11/23/2001	1.074	12	11/23/2001	0.889	25	11/23/2001	1.225
16	11/23/2001	0.966	29	11/23/2001	1.046	13	11/23/2001	0.926	26	11/23/2001	1.236
17	11/23/2001	1.165	1	11/23/2001	1.041	14	11/23/2001	1.101	27	11/23/2001	1.092
18	11/23/2001	1.071	2	11/23/2001	0.919	15	11/23/2001	1.135	28	11/23/2001	1.052
19	11/23/2001	0.964	3	11/23/2001	0.978	16	11/23/2001	1.316	29	11/23/2001	1.119
20	11/23/2001	0.879	4	11/23/2001	1.08	17	11/23/2001	1.092	1	11/23/2001	0.737

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
2	11/23/2001	0.865	15	11/24/2001	0.716	28	11/24/2001	1.066	12	11/24/2001	1.01
3	11/23/2001	1.16	16	11/24/2001	0.814	29	11/24/2001	0.771	13	11/24/2001	1.208
4	11/23/2001	1.159	17	11/24/2001	0.822	1	11/24/2001	1.428	14	11/24/2001	1.022
5	11/24/2001	0.896	18	11/24/2001	0.995	2	11/24/2001	1.132	15	11/24/2001	1.238
6	11/24/2001	0.941	19	11/24/2001	0.873	3	11/24/2001	0.574	16	11/24/2001	0.931
7	11/24/2001	0.856	20	11/24/2001	0.945	4	11/24/2001	1.185	17	11/24/2001	0.995
8	11/24/2001	0.819	21	11/24/2001	0.935	5	11/24/2001	1.098	18	11/24/2001	0.919
9	11/24/2001	0.941	22	11/24/2001	0.943	6	11/24/2001	1.155	19	11/24/2001	1.42
10	11/24/2001	0.812	23	11/24/2001	1.044	7	11/24/2001	0.896	20	11/24/2001	0.842
11	11/24/2001	0.95	24	11/24/2001	0.923	8	11/24/2001	1.191	21	11/24/2001	0.871
12	11/24/2001	0.965	25	11/24/2001	0.832	9	11/24/2001	1.24	22	11/24/2001	0.884
13	11/24/2001	0.842	26	11/24/2001	0.574	10	11/24/2001	0.799	23	11/24/2001	0.882
14	11/24/2001	1.06	27	11/24/2001	0.831	11	11/24/2001	0.673	24	11/24/2001	1.231
15	11/24/2001	0.931	28	11/24/2001	0.674	12	11/24/2001	1.01	25	11/24/2001	1.036
16	11/24/2001	0.722	29	11/24/2001	0.813	13	11/24/2001	0.947	26	11/24/2001	0.84
17	11/24/2001	0.827	1	11/24/2001	0.956	14	11/24/2001	0.867	27	11/24/2001	1.077
18	11/24/2001	0.82	2	11/24/2001	0.847	15	11/24/2001	0.939	28	11/24/2001	1.13
19	11/24/2001	1.006	3	11/24/2001	0.825	16	11/24/2001	0.911	29	11/24/2001	0.945
20	11/24/2001	0.874	4	11/24/2001	0.92	17	11/24/2001	0.909	1	11/24/2001	0.998
21	11/24/2001	0.95	5	11/24/2001	0.906	18	11/24/2001	0.457	2	11/24/2001	0.956
22	11/24/2001	0.832	6	11/24/2001	0.551	19	11/24/2001	1.15	3	11/24/2001	0.996
23	11/24/2001	0.916	7	11/24/2001	0.652	20	11/24/2001	0.98	4	11/24/2001	1.067
24	11/24/2001	1.018	8	11/24/2001	0.799	21	11/24/2001	0.899	5	11/24/2001	0.944
25	11/24/2001	0.942	9	11/24/2001	0.893	22	11/24/2001	0.942	6	11/24/2001	0.816
26	11/24/2001	0.858	10	11/24/2001	0.778	23	11/24/2001	0.775	7	11/24/2001	0.934
27	11/24/2001	0.583	11	11/24/2001	0.923	24	11/24/2001	0.822	8	11/24/2001	0.87
28	11/24/2001	0.939	12	11/24/2001	0.905	25	11/24/2001	0.855	9	11/24/2001	1.093
29	11/24/2001	0.683	13	11/24/2001	0.918	26	11/24/2001	0.922	10	11/24/2001	1.07
1	11/24/2001	0.803	14	11/24/2001	0.904	27	11/24/2001	0.942	11	11/24/2001	0.974
2	11/24/2001	0.98	15	11/24/2001	0.862	28	11/24/2001	0.937	12	11/24/2001	0.917
3	11/24/2001	0.864	16	11/24/2001	0.997	29	11/24/2001	0.842	13	11/24/2001	1.181
4	11/24/2001	0.914	17	11/24/2001	0.657	1	11/24/2001	0.923	14	11/24/2001	0.937
5	11/24/2001	0.961	18	11/24/2001	0.804	2	11/24/2001	0.924	15	11/24/2001	0.947
6	11/24/2001	0.818	19	11/24/2001	0.832	3	11/24/2001	1.026	16	11/24/2001	1.424
7	11/24/2001	0.838	20	11/24/2001	0.578	4	11/24/2001	1.087	17	11/24/2001	1.083
8	11/24/2001	0.725	21	11/24/2001	0.833	5	11/24/2001	1.102	18	11/24/2001	0.654
9	11/24/2001	0.808	22	11/24/2001	0.848	6	11/24/2001	0.884	19	11/24/2001	0.813
10	11/24/2001	0.855	23	11/24/2001	0.878	7	11/24/2001	0.878	20	11/24/2001	0.887
11	11/24/2001	0.945	24	11/24/2001	0.854	8	11/24/2001	0.768	21	11/24/2001	0.81
12	11/24/2001	0.858	25	11/24/2001	1.243	9	11/24/2001	1.136	22	11/24/2001	1.507
13	11/24/2001	1.034	26	11/24/2001	0.948	10	11/24/2001	1.145	23	11/24/2001	1.071
14	11/24/2001	0.898	27	11/24/2001	1.17	11	11/24/2001	0.81	24	11/24/2001	1.166

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
25	11/24/2001	1.251	9	11/24/2001	0.884	22	11/25/2001	0.83	6	11/25/2001	0.976
26	11/24/2001	1.05	10	11/24/2001	0.82	23	11/25/2001	0.589	7	11/25/2001	0.927
27	11/24/2001	1.096	11	11/24/2001	1.009	24	11/25/2001	0.838	8	11/25/2001	1.809
28	11/24/2001	1.101	12	11/24/2001	0.986	25	11/25/2001	0.852	9	11/25/2001	0.971
29	11/24/2001	1.062	13	11/24/2001	0.91	26	11/25/2001	0.68	10	11/25/2001	0.991
1	11/24/2001	1.026	14	11/24/2001	0.979	27	11/25/2001	0.887	11	11/25/2001	1.056
2	11/24/2001	0.76	15	11/24/2001	0.692	28	11/25/2001	1.25	12	11/25/2001	1.112
3	11/24/2001	1.5	16	11/24/2001	0.97	29	11/25/2001	0.946	13	11/25/2001	0.999
4	11/24/2001	1.508	17	11/24/2001	1.075	1	11/25/2001	1.036	14	11/25/2001	1.204
5	11/24/2001	1.078	18	11/24/2001	0.998	2	11/25/2001	0.871	15	11/25/2001	1.163
6	11/24/2001	0.947	19	11/24/2001	0.844	3	11/25/2001	0.83	16	11/25/2001	1.113
7	11/24/2001	0.835	20	11/24/2001	1.099	4	11/25/2001	1.046	17	11/25/2001	0.964
8	11/24/2001	0.912	21	11/24/2001	0.721	5	11/25/2001	0.843	18	11/25/2001	1.621
9	11/24/2001	0.801	22	11/24/2001	1.041	6	11/25/2001	0.772	19	11/25/2001	0.993
10	11/24/2001	1.091	23	11/24/2001	1.051	7	11/25/2001	1.017	20	11/25/2001	1.292
11	11/24/2001	1.1	24	11/24/2001	0.988	8	11/25/2001	0.827	21	11/25/2001	0.848
12	11/24/2001	0.938	25	11/24/2001	0.922	9	11/25/2001	1.011	22	11/25/2001	0.737
13	11/24/2001	0.835	26	11/24/2001	0.971	10	11/25/2001	0.989	23	11/25/2001	0.894
14	11/24/2001	1.174	27	11/24/2001	0.908	11	11/25/2001	0.98	24	11/25/2001	0.938
15	11/24/2001	0.906	28	11/24/2001	1.016	12	11/25/2001	0.807	25	11/25/2001	0.808
16	11/24/2001	0.955	29	11/24/2001	0.687	13	11/25/2001	0.905	26	11/25/2001	1.34
17	11/24/2001	1.424	1	11/24/2001	0.453	14	11/25/2001	0.772	27	11/25/2001	1.043
18	11/24/2001	1.496	2	11/24/2001	0.864	15	11/25/2001	0.941	28	11/25/2001	1.279
19	11/24/2001	0.944	3	11/24/2001	0.744	16	11/25/2001	1.117	29	11/25/2001	1.636
20	11/24/2001	0.804	4	11/24/2001	1.022	17	11/25/2001	0.744	1	11/25/2001	1.641
21	11/24/2001	0.969	5	11/24/2001	0.96	18	11/25/2001	0.779	2	11/25/2001	1.614
22	11/24/2001	0.808	6	11/24/2001	0.902	19	11/25/2001	0.958	3	11/25/2001	1.616
23	11/24/2001	1.011	7	11/25/2001	0.926	20	11/25/2001	0.781	4	11/25/2001	0.489
24	11/24/2001	0.95	8	11/25/2001	1.105	21	11/25/2001	0.86	5	11/25/2001	0.628
25	11/24/2001	1.083	9	11/25/2001	0.663	22	11/25/2001	0.839	6	11/25/2001	0.696
26	11/24/2001	0.978	10	11/25/2001	0.7	23	11/25/2001	0.856	7	11/25/2001	1.079
27	11/24/2001	1.174	11	11/25/2001	0.834	24	11/25/2001	0.704	8	11/25/2001	0.869
28	11/24/2001	1.045	12	11/25/2001	0.893	25	11/25/2001	1.029	9	11/25/2001	0.895
29	11/24/2001	1.097	13	11/25/2001	0.816	26	11/25/2001	1.162	10	11/25/2001	0.841
1	11/24/2001	1.119	14	11/25/2001	0.968	27	11/25/2001	0.816	11	11/25/2001	1.028
2	11/24/2001	1.057	15	11/25/2001	0.965	28	11/25/2001	0.871	12	11/25/2001	1.044
3	11/24/2001	1.039	16	11/25/2001	1.032	29	11/25/2001	0.829	13	11/25/2001	0.767
4	11/24/2001	0.751	17	11/25/2001	0.981	1	11/25/2001	0.596	14	11/25/2001	0.643
5	11/24/2001	1.486	18	11/25/2001	0.889	2	11/25/2001	1.268	15	11/25/2001	1.036
6	11/24/2001	1.473	19	11/25/2001	1.011	3	11/25/2001	1.205	16	11/25/2001	0.76
7	11/24/2001	0.993	20	11/25/2001	0.65	4	11/25/2001	1.268	17	11/25/2001	0.981
8	11/24/2001	1.075	21	11/25/2001	0.86	5	11/25/2001	1.482	18	11/25/2001	1.121

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
19	11/25/2001	0.803	3	11/25/2001	1.02	16	11/25/2001	0.822	29	11/25/2001	1.009
20	11/25/2001	0.868	4	11/25/2001	0.633	17	11/25/2001	0.829	30	11/25/2001	1.121
21	11/25/2001	0.723	5	11/25/2001	0.731	18	11/25/2001	0.804	31	11/25/2001	1.104
22	11/25/2001	1.213	6	11/25/2001	0.649	19	11/25/2001	1.648	32	11/25/2001	1.036
23	11/25/2001	0.654	7	11/25/2001	1.017	20	11/25/2001	0.802	33	11/25/2001	1.065
24	11/25/2001	0.922	8	11/25/2001	0.859	21	11/25/2001	0.767	1	11/12/01	0.849
25	11/25/2001	0.956	9	11/25/2001	1.026	22	11/25/2001	1.155	2	11/12/01	1.129
26	11/25/2001	0.954	10	11/25/2001	1.069	23	11/25/2001	0.887	3	11/12/01	1.01
27	11/25/2001	0.736	11	11/25/2001	1.025	24	11/25/2001	0.909	4	11/12/01	1.028
28	11/25/2001	0.967	12	11/25/2001	0.643	25	11/25/2001	0.708	5	11/12/01	0.924
29	11/25/2001	0.73	13	11/25/2001	0.927	26	11/25/2001	0.464	6	11/12/01	1.155
1	11/25/2001	0.495	14	11/25/2001	1.148	27	11/25/2001	1.071	7	11/12/01	0.947
2	11/25/2001	1.071	15	11/25/2001	0.871	28	11/25/2001	0.945	8	11/12/01	1.341
3	11/25/2001	0.358	16	11/25/2001	0.844	29	11/25/2001	0.819	9	11/12/01	1.273
4	11/25/2001	0.963	17	11/25/2001	1.011	1	11/25/2001	0.359	10	11/12/01	1.112
5	11/25/2001	1.185	18	11/25/2001	0.773	2	11/25/2001	0.516	11	11/12/01	0.651
6	11/25/2001	0.889	19	11/25/2001	0.882	3	11/25/2001	1.635	12	11/12/01	0.836
7	11/25/2001	0.735	20	11/25/2001	0.922	4	11/25/2001	1.615	13	11/12/01	1.461
8	11/25/2001	0.925	21	11/25/2001	0.704	5	11/25/2001	0.974	14	11/12/01	1.568
9	11/25/2001	0.968	22	11/25/2001	1.218	6	11/25/2001	1.069	15	11/12/01	0.892
10	11/25/2001	1.124	23	11/25/2001	0.875	7	11/25/2001	0.682	16	11/12/01	1.051
11	11/25/2001	0.94	24	11/25/2001	0.937	8	11/25/2001	0.734	17	11/12/01	1.341
12	11/25/2001	1.262	25	11/25/2001	1.083	9	11/25/2001	0.851	18	11/12/01	0.801
13	11/25/2001	1.032	26	11/25/2001	0.99	10	11/25/2001	0.86	19	11/12/01	0.966
14	11/25/2001	1.14	27	11/25/2001	0.836	11	11/25/2001	0.706	20	11/12/01	1.031
15	11/25/2001	0.874	28	11/25/2001	1.08	12	11/25/2001	0.937	21	11/12/01	1.19
16	11/25/2001	1.059	29	11/25/2001	0.732	13	11/25/2001	0.964	22	11/12/01	1.145
17	11/25/2001	1.083	1	11/25/2001	0.981	14	11/25/2001	1.04	23	11/12/01	1.233
18	11/25/2001	1.074	2	11/25/2001	1.178	15	11/25/2001	0.93	24	11/12/01	0.735
19	11/25/2001	0.721	3	11/25/2001	0.681	16	11/25/2001	0.86	25	11/12/01	1.499
20	11/25/2001	0.946	4	11/25/2001	1.075	17	11/25/2001	1.006	26	11/12/01	1.194
21	11/25/2001	0.932	5	11/25/2001	1.076	18	11/25/2001	0.643	27	11/12/01	0.566
22	11/25/2001	0.84	6	11/25/2001	0.959	19	11/25/2001	0.859	28	11/12/01	0.935
23	11/25/2001	1.028	7	11/25/2001	1.094	20	11/25/2001	0.843	29	11/12/01	0.963
24	11/25/2001	0.857	8	11/25/2001	0.679	21	11/25/2001	0.633	1	11/12/01	0.961
25	11/25/2001	0.849	9	11/25/2001	0.893	22	11/25/2001	0.826	2	11/12/01	1.099
26	11/25/2001	0.966	10	11/25/2001	0.678	23	11/25/2001	0.874	3	11/12/01	1.097
27	11/25/2001	0.967	11	11/25/2001	0.91	24	11/25/2001	0.913	4	11/12/01	0.648
28	11/25/2001	0.799	12	11/25/2001	0.916	25	11/25/2001	0.864	5	11/12/01	0.646
29	11/25/2001	1.265	13	11/25/2001	0.659	26	11/25/2001	1.248	6	11/12/01	1.554
1	11/25/2001	1.001	14	11/25/2001	0.662	27	11/25/2001	0.936	7	11/12/01	1.538
2	11/25/2001	1.01	15	11/25/2001	0.778	28	11/25/2001	0.911	8	11/12/01	1.476

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
9	11/12/01	1.476	22	11/12/01	1.144	6	11/12/01	1.221	8	11/13/2001	1.246
10	11/12/01	1.072	23	11/12/01	0.802	7	11/12/01	1.032	9	11/13/2001	1.283
11	11/12/01	1.082	24	11/12/01	1.257	8	11/12/01	1.171	10	11/13/2001	1.139
12	11/12/01	1.18	25	11/12/01	0.877	9	11/12/01	1.048	11	11/13/2001	1.164
13	11/12/01	1.097	26	11/12/01	0.541	10	11/12/01	0.804	12	11/13/2001	1.102
14	11/12/01	1.024	27	11/12/01	0.927	11	11/12/01	1.037	13	11/13/2001	1.084
15	11/12/01	0.998	28	11/12/01	1.012	12	11/12/01	0.908	14	11/13/2001	1.125
16	11/12/01	1.164	29	11/12/01	0.92	13	11/12/01	1.217	15	11/13/2001	1.085
17	11/12/01	1.084	1	11/12/01	0.889	14	11/12/01	1.458	16	11/13/2001	1.15
18	11/12/01	0.873	2	11/12/01	1.211	15	11/12/01	1.34	17	11/13/2001	1.077
19	11/12/01	0.701	3	11/12/01	1.145	16	11/12/01	1.038	18	11/13/2001	0.973
20	11/12/01	0.879	4	11/12/01	1.017	17	11/12/01	0.983	19	11/13/2001	1.254
21	11/12/01	0.586	5	11/12/01	1.096	18	11/12/01	1.067	20	11/13/2001	1.192
22	11/12/01	1.407	6	11/12/01	1.119	19	11/12/01	1.066	21	11/13/2001	0.551
23	11/12/01	1.313	7	11/12/01	0.799	20	11/12/01	1.081	22	11/13/2001	1.377
24	11/12/01	1.381	8	11/12/01	1.039	21	11/12/01	0.871	23	11/13/2001	1.153
25	11/12/01	1.238	9	11/12/01	1.019	22	11/12/01	1.093	24	11/13/2001	1.036
26	11/12/01	1.127	10	11/12/01	0.974	23	11/12/01	1.083	25	11/13/2001	0.832
27	11/12/01	1.038	11	11/12/01	1.263	24	11/12/01	1.154	26	11/13/2001	1.046
28	11/12/01	1.015	12	11/12/01	1.345	25	11/12/01	1.531	27	11/13/2001	1.17
29	11/12/01	1.185	13	11/12/01	1.126	26	11/12/01	1.162	28	11/13/2001	1.161
1	11/12/01	1.463	14	11/12/01	1.104	27	11/12/01	1.139	29	11/13/2001	0.917
2	11/12/01	0.986	15	11/12/01	0.976	28	11/12/01	0.957	1	11/13/2001	1.487
3	11/12/01	0.872	16	11/12/01	1.137	29	11/12/01	0.934	2	11/13/2001	1.434
4	11/12/01	0.89	17	11/12/01	1.229	30	11/12/01	1.001	3	11/13/2001	1.054
5	11/12/01	0.823	18	11/12/01	1.054	31	11/12/01	0.724	4	11/13/2001	1.086
6	11/12/01	1.161	19	11/12/01	0.579	32	11/12/01	0.933	5	11/13/2001	1.055
7	11/12/01	1.201	20	11/12/01	1.215	33	11/12/01	1.109	6	11/13/2001	0.903
8	11/12/01	1.214	21	11/12/01	1.015	34	11/12/01	1.153	7	11/13/2001	1.045
9	11/12/01	1.197	22	11/12/01	0.695	35	11/12/01	0.986	8	11/13/2001	1.117
10	11/12/01	0.959	23	11/12/01	1.149	36	11/12/01	0.716	9	11/13/2001	1.101
11	11/12/01	0.742	24	11/12/01	1.024	37	11/12/01	0.99	10	11/13/2001	1.008
12	11/12/01	1.1	25	11/12/01	1.098	38	11/12/01	0.971	11	11/13/2001	1.008
13	11/12/01	0.891	26	11/12/01	0.641	39	11/12/01	1.522	12	11/13/2001	1.142
14	11/12/01	1.084	27	11/12/01	1.195	40	11/12/01	1.521	13	11/13/2001	1.076
15	11/12/01	0.929	28	11/12/01	0.907	1	11/13/2001	1.047	14	11/13/2001	1.043
16	11/12/01	1.045	29	11/12/01	1.092	2	11/13/2001	1.168	15	11/13/2001	1.079
17	11/12/01	1.004	1	11/12/01	1.117	3	11/13/2001	1.489	16	11/13/2001	1.11
18	11/12/01	0.991	2	11/12/01	0.722	4	11/13/2001	0.924	17	11/13/2001	0.996
19	11/12/01	1.035	3	11/12/01	0.761	5	11/13/2001	1.036	18	11/13/2001	0.834
20	11/12/01	0.429	4	11/12/01	1.237	6	11/13/2001	1.194	19	11/13/2001	1.056
21	11/12/01	0.95	5	11/12/01	1.121	7	11/13/2001	1.088	20	11/13/2001	0.993



ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
21	11/13/2001	0.974	5	11/13/2001	1.125	18	11/13/2001	1.121	2	11/13/2001	1.093
22	11/13/2001	1.346	6	11/13/2001	0.901	19	11/13/2001	1.191	3	11/13/2001	1.204
23	11/13/2001	0.568	7	11/13/2001	1.154	20	11/13/2001	1.274	4	11/13/2001	1.085
24	11/13/2001	1.148	8	11/13/2001	1.043	21	11/13/2001	1.328	5	11/13/2001	1.653
25	11/13/2001	0.715	9	11/13/2001	1.069	22	11/13/2001	1.172	6	11/13/2001	1.652
26	11/13/2001	1.027	10	11/13/2001	0.84	23	11/13/2001	1.506	7	11/13/2001	1.261
27	11/13/2001	1.03	11	11/13/2001	1.065	24	11/13/2001	1.53	8	11/13/2001	1.258
28	11/13/2001	0.952	12	11/13/2001	1.399	25	11/13/2001	1.202	9	11/13/2001	1.054
29	11/13/2001	0.961	13	11/13/2001	1.074	26	11/13/2001	1.544	10	11/13/2001	1.302
1	11/13/2001	0.92	14	11/13/2001	0.768	27	11/13/2001	1.55	11	11/13/2001	1.215
2	11/13/2001	1.266	15	11/13/2001	1.08	28	11/13/2001	1.525	12	11/13/2001	1.37
3	11/13/2001	0.579	16	11/13/2001	1.199	29	11/13/2001	1.514	13	11/13/2001	0.934
4	11/13/2001	0.96	17	11/13/2001	1.106	1	11/13/2001	1.518	14	11/13/2001	0.962
5	11/13/2001	0.727	18	11/13/2001	0.624	2	11/13/2001	1.52	15	11/13/2001	1.064
6	11/13/2001	1.043	19	11/13/2001	0.831	3	11/13/2001	1.499	16	11/13/2001	0.839
7	11/13/2001	1.118	20	11/13/2001	0.783	4	11/13/2001	1.498	17	11/13/2001	0.576
8	11/13/2001	1.133	21	11/13/2001	1.13	5	11/13/2001	0.991	18	11/13/2001	1.346
9	11/13/2001	0.798	22	11/13/2001	1.232	6	11/13/2001	0.935	19	11/13/2001	1.052
10	11/13/2001	1.044	23	11/13/2001	1.018	7	11/13/2001	0.723	20	11/13/2001	0.952
11	11/13/2001	0.666	24	11/13/2001	0.751	8	11/13/2001	1.207	21	11/13/2001	1.049
12	11/13/2001	0.689	25	11/13/2001	0.935	9	11/13/2001	0.932	22	11/13/2001	1.151
13	11/13/2001	0.911	26	11/13/2001	0.783	10	11/13/2001	1.227	23	11/13/2001	0.875
14	11/13/2001	0.948	27	11/13/2001	0.528	11	11/13/2001	1.04	24	11/13/2001	1.094
15	11/13/2001	0.979	28	11/13/2001	1.117	12	11/13/2001	1.095	25	11/13/2001	0.842
16	11/13/2001	0.931	29	11/13/2001	1.05	13	11/13/2001	1.257	26	11/13/2001	1.256
17	11/13/2001	0.693	1	11/13/2001	1.284	14	11/13/2001	1.262	27	11/13/2001	1.155
18	11/13/2001	0.733	2	11/13/2001	1.334	15	11/13/2001	1.154	28	11/13/2001	1.082
19	11/13/2001	1.114	3	11/13/2001	1.399	16	11/13/2001	0.681	29	11/13/2001	0.808
20	11/13/2001	1.315	4	11/13/2001	1.188	17	11/13/2001	0.978	1	11/13/2001	1.159
21	11/13/2001	1.178	5	11/13/2001	1.086	18	11/13/2001	1.133	2	11/13/2001	0.849
22	11/13/2001	1.136	6	11/13/2001	1.083	19	11/13/2001	1.14	3	11/13/2001	1.029
23	11/13/2001	1.158	7	11/13/2001	1.369	20	11/13/2001	1.337	4	11/13/2001	1.298
24	11/13/2001	0.869	8	11/13/2001	1.429	21	11/13/2001	1.656	5	11/13/2001	1.002
25	11/13/2001	1.182	9	11/13/2001	1.212	22	11/13/2001	1.066	6	11/13/2001	1.188
26	11/13/2001	0.852	10	11/13/2001	1.233	23	11/13/2001	0.871	7	11/14/2001	1.037
27	11/13/2001	1.069	11	11/13/2001	1.553	24	11/13/2001	1.199	8	11/14/2001	1.132
28	11/13/2001	1.151	12	11/13/2001	1.535	25	11/13/2001	0.613	9	11/14/2001	1.104
29	11/13/2001	1.075	13	11/13/2001	1.079	26	11/13/2001	1.317	10	11/14/2001	0.84
1	11/13/2001	1.1	14	11/13/2001	1.011	27	11/13/2001	0.933	11	11/14/2001	1.012
2	11/13/2001	0.927	15	11/13/2001	1.215	28	11/13/2001	0.893	12	11/14/2001	1.102
3	11/13/2001	1.183	16	11/13/2001	1.18	29	11/13/2001	1.08	13	11/14/2001	0.956
4	11/13/2001	0.977	17	11/13/2001	0.894	1	11/13/2001	1.044	14	11/14/2001	0.915

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
15	11/14/2001	1.012	28	11/14/2001	0.681	12	11/14/2001	0.871	25	11/15/2001	0.91
16	11/14/2001	1.083	29	11/14/2001	0.782	13	11/14/2001	0.983	26	11/15/2001	0.666
17	11/14/2001	0.931	1	11/14/2001	1.548	14	11/14/2001	1.068	27	11/15/2001	0.896
18	11/14/2001	1.031	2	11/14/2001	1.551	15	11/14/2001	0.758	28	11/15/2001	1.088
19	11/14/2001	0.954	3	11/14/2001	0.891	16	11/14/2001	1.123	29	11/15/2001	0.966
20	11/14/2001	0.694	4	11/14/2001	1.078	17	11/14/2001	0.782	1	11/15/2001	0.852
21	11/14/2001	1.04	5	11/14/2001	1.078	18	11/14/2001	1.393	2	11/15/2001	0.952
22	11/14/2001	0.975	6	11/14/2001	0.794	19	11/14/2001	1.057	3	11/15/2001	0.916
23	11/14/2001	1.027	7	11/14/2001	1.119	20	11/14/2001	0.987	4	11/15/2001	0.596
24	11/14/2001	1.174	8	11/14/2001	0.569	21	11/14/2001	0.874	5	11/15/2001	0.991
25	11/14/2001	1.09	9	11/14/2001	1.016	22	11/14/2001	0.867	6	11/15/2001	1.016
26	11/14/2001	1.147	10	11/14/2001	1.017	23	11/14/2001	1.202	7	11/15/2001	1.064
27	11/14/2001	0.9	11	11/14/2001	0.815	24	11/14/2001	0.957	8	11/15/2001	1.072
28	11/14/2001	1.199	12	11/14/2001	0.898	25	11/14/2001	0.402	9	11/15/2001	1.12
29	11/14/2001	0.953	13	11/14/2001	1.112	26	11/15/2001	0.988	10	11/15/2001	1.041
1	11/14/2001	1.048	14	11/14/2001	1.058	27	11/15/2001	1.081	11	11/15/2001	1.018
2	11/14/2001	1.32	15	11/14/2001	1.202	28	11/15/2001	0.9	12	11/15/2001	1.105
3	11/14/2001	1.062	16	11/14/2001	1.14	29	11/15/2001	0.824	13	11/15/2001	0.98
4	11/14/2001	0.675	17	11/14/2001	1.106	1	11/15/2001	1.007	14	11/15/2001	0.746
5	11/14/2001	1	18	11/14/2001	1.096	2	11/15/2001	0.986	15	11/15/2001	0.987
6	11/14/2001	1.054	19	11/14/2001	1.1	3	11/15/2001	0.898	16	11/15/2001	1.112
7	11/14/2001	1.274	20	11/14/2001	1.031	4	11/15/2001	0.999	17	11/15/2001	1.174
8	11/14/2001	1.545	21	11/14/2001	1.068	5	11/15/2001	0.681	18	11/15/2001	1.033
9	11/14/2001	0.849	22	11/14/2001	0.854	6	11/15/2001	0.985	19	11/15/2001	0.973
10	11/14/2001	0.73	23	11/14/2001	1.151	7	11/15/2001	1.089	20	11/15/2001	0.723
11	11/14/2001	0.997	24	11/14/2001	0.97	8	11/15/2001	1.007	21	11/15/2001	0.796
12	11/14/2001	1.009	25	11/14/2001	0.558	9	11/15/2001	0.843	22	11/15/2001	0.584
13	11/14/2001	1.433	26	11/14/2001	1.218	10	11/15/2001	0.93	23	11/15/2001	1.168
14	11/14/2001	0.867	27	11/14/2001	0.962	11	11/15/2001	0.721	24	11/15/2001	0.97
15	11/14/2001	0.804	28	11/14/2001	1.299	12	11/15/2001	1.042	25	11/15/2001	0.748
16	11/14/2001	1.418	29	11/14/2001	1.167	13	11/15/2001	1.071	26	11/15/2001	1.139
17	11/14/2001	1.346	1	11/14/2001	1.084	14	11/15/2001	0.971	27	11/15/2001	0.725
18	11/14/2001	1.133	2	11/14/2001	0.839	15	11/15/2001	0.933	28	11/15/2001	0.975
19	11/14/2001	1.274	3	11/14/2001	1.127	16	11/15/2001	1.009	29	11/15/2001	1.028
20	11/14/2001	1.031	4	11/14/2001	1.074	17	11/15/2001	0.913	1	11/15/2001	1.324
21	11/14/2001	1.052	5	11/14/2001	1.011	18	11/15/2001	1.012	2	11/15/2001	0.66
22	11/14/2001	1.052	6	11/14/2001	0.98	19	11/15/2001	0.715	3	11/15/2001	0.987
23	11/14/2001	0.753	7	11/14/2001	0.818	20	11/15/2001	0.443	4	11/15/2001	1.016
24	11/14/2001	1.169	8	11/14/2001	0.973	21	11/15/2001	0.878	5	11/15/2001	1.135
25	11/14/2001	1.234	9	11/14/2001	1.17	22	11/15/2001	0.754	6	11/15/2001	0.62
26	11/14/2001	1.351	10	11/14/2001	1.159	23	11/15/2001	1.068	7	11/15/2001	0.615
27	11/14/2001	0.964	11	11/14/2001	0.814	24	11/15/2001	0.963	8	11/15/2001	0.968

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
9	11/15/2001	0.591	22	11/15/2001	0.945	6	11/15/2001	1.215	10	11/16/2001	0.997
10	11/15/2001	0.897	23	11/15/2001	1.163	7	11/15/2001	0.799	11	11/16/2001	1.06
11	11/15/2001	0.85	24	11/15/2001	1.084	8	11/15/2001	0.848	12	11/16/2001	1.104
12	11/15/2001	0.8	25	11/15/2001	1.092	9	11/15/2001	0.781	13	11/16/2001	1.292
13	11/15/2001	0.776	26	11/15/2001	1.045	10	11/15/2001	1.147	14	11/16/2001	0.754
14	11/15/2001	1.403	27	11/15/2001	0.994	11	11/15/2001	1.025	15	11/16/2001	1.149
15	11/15/2001	1.433	28	11/15/2001	1.05	12	11/15/2001	0.843	16	11/16/2001	1.217
16	11/15/2001	1.157	29	11/15/2001	0.82	13	11/15/2001	0.833	17	11/16/2001	1.04
17	11/15/2001	1.166	1	11/15/2001	1.057	14	11/15/2001	1.59	18	11/16/2001	1.277
18	11/15/2001	1.005	2	11/15/2001	0.9	15	11/15/2001	1.108	19	11/16/2001	1.146
19	11/15/2001	0.911	3	11/15/2001	1.051	16	11/15/2001	1.535	20	11/16/2001	1.149
20	11/15/2001	1.382	4	11/15/2001	0.829	17	11/15/2001	1.028	21	11/16/2001	1.254
21	11/15/2001	1.689	5	11/15/2001	0.832	18	11/15/2001	1.426	22	11/16/2001	1.191
22	11/15/2001	1.182	6	11/15/2001	0.934	19	11/15/2001	1.343	23	11/16/2001	1.036
23	11/15/2001	1.189	7	11/15/2001	0.834	20	11/15/2001	1.544	24	11/16/2001	1.196
24	11/15/2001	1.092	8	11/15/2001	1.054	21	11/15/2001	1.396	25	11/16/2001	1.118
25	11/15/2001	0.948	9	11/15/2001	0.861	22	11/15/2001	0.983	26	11/16/2001	1.407
26	11/15/2001	1.074	10	11/15/2001	0.925	23	11/15/2001	0.945	27	11/16/2001	1.032
27	11/15/2001	0.807	11	11/15/2001	1.104	24	11/15/2001	0.654	28	11/16/2001	1.389
28	11/15/2001	1.072	12	11/15/2001	0.972	25	11/15/2001	0.54	29	11/16/2001	1.121
29	11/15/2001	0.895	13	11/15/2001	0.782	26	11/15/2001	1.588	1	11/16/2001	0.929
1	11/15/2001	0.981	14	11/15/2001	1.028	27	11/15/2001	1.578	2	11/16/2001	1.19
2	11/15/2001	0.838	15	11/15/2001	1.146	28	11/15/2001	1.533	3	11/16/2001	1.046
3	11/15/2001	0.856	16	11/15/2001	0.786	29	11/15/2001	1.538	4	11/16/2001	1.048
4	11/15/2001	0.892	17	11/15/2001	0.756	1	11/15/2001	1.568	5	11/16/2001	1.287
5	11/15/2001	0.895	18	11/15/2001	0.773	2	11/15/2001	1.565	6	11/16/2001	1.157
6	11/15/2001	1.044	19	11/15/2001	1.085	3	11/16/2001	1.034	7	11/16/2001	1.052
7	11/15/2001	0.881	20	11/15/2001	0.881	4	11/16/2001	1.163	8	11/16/2001	0.93
8	11/15/2001	0.892	21	11/15/2001	0.97	5	11/16/2001	1.337	9	11/16/2001	0.912
9	11/15/2001	1.157	22	11/15/2001	1.158	6	11/16/2001	0.574	10	11/16/2001	1.065
10	11/15/2001	0.973	23	11/15/2001	0.885	7	11/16/2001	1.009	11	11/16/2001	1.005
11	11/15/2001	0.846	24	11/15/2001	0.943	8	11/16/2001	0.874	12	11/16/2001	0.97
12	11/15/2001	1.053	25	11/15/2001	1.151	9	11/16/2001	1.135	13	11/16/2001	1.006
13	11/15/2001	1.148	26	11/15/2001	1.185	10	11/16/2001	0.893	14	11/16/2001	0.896
14	11/15/2001	0.779	27	11/15/2001	1.123	11	11/16/2001	0.927	15	11/16/2001	0.953
15	11/15/2001	0.673	28	11/15/2001	0.956	12	11/16/2001	1.063	16	11/16/2001	1.04
16	11/15/2001	0.838	29	11/15/2001	0.587	13	11/16/2001	1.359	17	11/16/2001	1.152
17	11/15/2001	1.114	1	11/15/2001	0.902	14	11/16/2001	0.482	18	11/16/2001	0.833
18	11/15/2001	1.093	2	11/15/2001	0.944	15	11/16/2001	1.191	19	11/16/2001	0.864
19	11/15/2001	0.964	3	11/15/2001	1.106	16	11/16/2001	1.034	20	11/16/2001	0.914
20	11/15/2001	1.193	4	11/15/2001	1.01	17	11/16/2001	1.089	21	11/16/2001	0.992
21	11/15/2001	0.754	5	11/15/2001	1.214	18	11/16/2001	0.948	22	11/16/2001	1.114

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
23	11/16/2001	1.208	27	11/16/2001	1.01	11	11/16/2001	1.092	24	11/16/2001	0.672
24	11/16/2001	0.831	28	11/16/2001	1.056	12	11/16/2001	0.897	25	11/16/2001	1.152
25	11/16/2001	0.862	29	11/16/2001	0.887	13	11/16/2001	1.026	26	11/16/2001	0.829
26	11/16/2001	1.096	1	11/16/2001	0.64	14	11/16/2001	1.046	27	11/16/2001	0.898
27	11/16/2001	1.018	2	11/16/2001	0.588	15	11/16/2001	1.094	28	11/16/2001	1.003
28	11/16/2001	0.705	3	11/16/2001	1.093	16	11/16/2001	1.118	29	11/16/2001	1.064
29	11/16/2001	0.955	4	11/16/2001	0.958	17	11/16/2001	1.088	1	11/16/2001	0.865
1	11/16/2001	0.855	5	11/16/2001	0.967	18	11/16/2001	0.966	2	11/16/2001	0.993
2	11/16/2001	0.876	6	11/16/2001	0.578	19	11/16/2001	0.95	3	11/16/2001	1.201
3	11/16/2001	1.019	7	11/16/2001	1.054	20	11/16/2001	1.076	4	11/16/2001	1.164
4	11/16/2001	0.708	8	11/16/2001	1.058	21	11/16/2001	0.952	5	11/16/2001	1.213
5	11/16/2001	0.546	9	11/16/2001	1.19	22	11/16/2001	0.76	6	11/16/2001	0.985
6	11/16/2001	1.087	10	11/16/2001	0.979	23	11/16/2001	1.177	7	11/16/2001	1.153
7	11/16/2001	1.051	11	11/16/2001	0.982	24	11/16/2001	0.996	8	11/16/2001	0.92
8	11/16/2001	1.008	12	11/16/2001	1.231	25	11/16/2001	0.806	9	11/16/2001	0.96
9	11/16/2001	1.137	13	11/16/2001	0.701	26	11/16/2001	1.008	10	11/16/2001	0.977
10	11/16/2001	0.982	14	11/16/2001	1.279	27	11/16/2001	0.959	11	11/16/2001	1.084
11	11/16/2001	1.084	15	11/16/2001	1.165	28	11/16/2001	0.964	12	11/16/2001	0.997
12	11/16/2001	1.127	16	11/16/2001	1.119	29	11/16/2001	0.988	13	11/16/2001	1.261
13	11/16/2001	1.041	17	11/16/2001	0.438	1	11/16/2001	1.022	14	11/16/2001	1.154
14	11/16/2001	0.78	18	11/16/2001	1.4	2	11/16/2001	0.98	15	11/16/2001	1.129
15	11/16/2001	1.096	19	11/16/2001	1.161	3	11/16/2001	1.042	16	11/16/2001	0.931
16	11/16/2001	1.018	20	11/16/2001	1.253	4	11/16/2001	1.055	17	11/16/2001	1.113
17	11/16/2001	0.93	21	11/16/2001	1.25	5	11/16/2001	1.04	18	11/16/2001	1.133
18	11/16/2001	0.937	22	11/16/2001	0.982	6	11/16/2001	0.742	19	11/16/2001	0.883
19	11/16/2001	0.998	23	11/16/2001	1.11	7	11/16/2001	1.028	20	11/16/2001	1.165
20	11/16/2001	1.24	24	11/16/2001	1.246	8	11/16/2001	0.889	21	11/16/2001	1.033
21	11/16/2001	1.14	25	11/16/2001	1.329	9	11/16/2001	1.211	22	11/16/2001	1.495
22	11/16/2001	1.104	26	11/16/2001	1.256	10	11/16/2001	0.991	23	11/16/2001	1.351
23	11/16/2001	0.854	27	11/16/2001	1.125	11	11/16/2001	0.812	24	11/16/2001	1.375
24	11/16/2001	1.07	28	11/16/2001	0.505	12	11/16/2001	1.152	25	11/16/2001	1.277
25	11/16/2001	1.052	29	11/16/2001	0.86	13	11/16/2001	0.931	26	11/16/2001	1.652
26	11/16/2001	1.24	1	11/16/2001	0.958	14	11/16/2001	1.066	27	11/16/2001	1.04
27	11/16/2001	1.224	2	11/16/2001	0.974	15	11/16/2001	1.335	28	11/16/2001	1.273
28	11/16/2001	1.22	3	11/16/2001	1.02	16	11/16/2001	1.152	29	11/16/2001	1.44
29	11/16/2001	1.003	4	11/16/2001	1.115	17	11/16/2001	1.145	1	11/16/2001	1.316
1	11/16/2001	1.18	5	11/16/2001	1.599	18	11/16/2001	0.862	2	11/16/2001	1.517
2	11/16/2001	0.988	6	11/16/2001	1.105	19	11/16/2001	1.068	3	11/16/2001	0.867
3	11/16/2001	1.256	7	11/16/2001	1.338	20	11/16/2001	1.03	4	11/16/2001	0.885
4	11/16/2001	1.292	8	11/16/2001	1.391	21	11/16/2001	1.3	5	11/16/2001	1.298
5	11/16/2001	1.545	9	11/16/2001	0.753	22	11/16/2001	1.185	6	11/16/2001	0.977
6	11/16/2001	1.167	10	11/16/2001	0.859	23	11/16/2001	1.316	7	11/16/2001	1.043

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
8	11/16/2001	1.222	21	11/16/2001	1.009	5	11/17/2001	1.035	18	11/17/2001	1.094
9	11/16/2001	1.485	22	11/16/2001	1.184	6	11/17/2001	1.026	19	11/17/2001	1.041
10	11/16/2001	1.494	23	11/16/2001	1.138	7	11/17/2001	1.089	20	11/17/2001	0.719
11	11/16/2001	1.635	24	11/16/2001	0.616	8	11/17/2001	1.041	21	11/17/2001	1.063
12	11/16/2001	1.64	25	11/16/2001	1.085	9	11/17/2001	1.152	22	11/17/2001	1.087
13	11/16/2001	1.523	26	11/16/2001	1.146	10	11/17/2001	1.535	23	11/17/2001	1.063
14	11/16/2001	1.51	27	11/16/2001	1.012	11	11/17/2001	1.404	24	11/17/2001	1.225
15	11/16/2001	0.922	28	11/16/2001	0.468	12	11/17/2001	1.259	25	11/17/2001	1.11
16	11/16/2001	0.957	29	11/16/2001	0.943	13	11/17/2001	1.299	26	11/17/2001	1.098
17	11/16/2001	0.869	1	11/16/2001	1.252	14	11/17/2001	1.298	27	11/17/2001	1.085
18	11/16/2001	0.997	2	11/16/2001	1.153	15	11/17/2001	1.526	28	11/17/2001	0.948
19	11/16/2001	1.239	3	11/16/2001	0.999	16	11/17/2001	1.282	29	11/17/2001	0.943
20	11/16/2001	1.189	4	11/16/2001	1.085	17	11/17/2001	1.53	1	11/17/2001	0.992
21	11/16/2001	1.121	5	11/16/2001	1.259	18	11/17/2001	1.536	2	11/17/2001	0.971
22	11/16/2001	0.616	6	11/16/2001	1.091	19	11/17/2001	1.524	3	11/17/2001	1.084
23	11/16/2001	1.07	7	11/16/2001	0.802	20	11/17/2001	1.516	4	11/17/2001	1.032
24	11/16/2001	1.139	8	11/16/2001	1.257	21	11/17/2001	1.509	5	11/17/2001	0.965
25	11/16/2001	1.003	9	11/16/2001	1.296	22	11/17/2001	1.509	6	11/17/2001	0.835
26	11/16/2001	1.16	10	11/16/2001	1.121	23	11/17/2001	0.786	7	11/17/2001	1.78
27	11/16/2001	0.928	11	11/16/2001	0.853	24	11/17/2001	0.868	8	11/17/2001	1.177
28	11/16/2001	1.23	12	11/16/2001	0.855	25	11/17/2001	0.996	9	11/17/2001	0.995
29	11/16/2001	1.349	13	11/16/2001	1.127	26	11/17/2001	0.916	10	11/17/2001	0.875
1	11/16/2001	1.345	14	11/16/2001	0.964	27	11/17/2001	1.047	11	11/17/2001	1.167
2	11/16/2001	1.263	15	11/16/2001	1.027	28	11/17/2001	1.01	12	11/17/2001	1.195
3	11/16/2001	1.292	16	11/16/2001	0.977	29	11/17/2001	0.765	13	11/17/2001	0.898
4	11/16/2001	1.178	17	11/17/2001	1.38	1	11/17/2001	1.048	14	11/17/2001	1.046
5	11/16/2001	0.989	18	11/17/2001	1.204	2	11/17/2001	0.915	15	11/17/2001	0.945
6	11/16/2001	1.439	19	11/17/2001	1.09	3	11/17/2001	0.981	16	11/17/2001	0.875
7	11/16/2001	1.3	20	11/17/2001	0.922	4	11/17/2001	0.791	17	11/17/2001	1.379
8	11/16/2001	1.117	21	11/17/2001	1.055	5	11/17/2001	1.003	18	11/17/2001	1.035
9	11/16/2001	0.879	22	11/17/2001	1.515	6	11/17/2001	0.954	19	11/17/2001	1.165
10	11/16/2001	0.873	23	11/17/2001	0.977	7	11/17/2001	0.748	20	11/17/2001	0.806
11	11/16/2001	1.136	24	11/17/2001	1.048	8	11/17/2001	0.996	21	11/17/2001	0.648
12	11/16/2001	1.537	25	11/17/2001	1.14	9	11/17/2001	0.98	22	11/17/2001	1.277
13	11/16/2001	1.036	26	11/17/2001	1.083	10	11/17/2001	0.775	23	11/17/2001	1.779
14	11/16/2001	1.215	27	11/17/2001	1.032	11	11/17/2001	1.037	24	11/17/2001	1.755
15	11/16/2001	1.04	28	11/17/2001	1.34	12	11/17/2001	0.961	25	11/17/2001	0.838
16	11/16/2001	1.029	29	11/17/2001	1.156	13	11/17/2001	0.992	26	11/17/2001	1.038
17	11/16/2001	0.918	1	11/17/2001	1.225	14	11/17/2001	0.807	27	11/17/2001	0.894
18	11/16/2001	0.967	2	11/17/2001	1.3	15	11/17/2001	1.006	28	11/17/2001	1.011
19	11/16/2001	0.862	3	11/17/2001	0.966	16	11/17/2001	0.874	29	11/17/2001	1.026
20	11/16/2001	1.429	4	11/17/2001	1.115	17	11/17/2001	0.947	1	11/17/2001	0.955

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
2	11/17/2001	0.924	15	11/17/2001	0.814	28	11/17/2001	1.574	12	11/18/2001	0.992
3	11/17/2001	0.921	16	11/17/2001	1.176	29	11/17/2001	1.041	13	11/18/2001	0.966
4	11/17/2001	1.06	17	11/17/2001	1.279	1	11/17/2001	1.177	14	11/18/2001	0.821
5	11/17/2001	1.065	18	11/17/2001	1.027	2	11/17/2001	1.038	15	11/18/2001	0.898
6	11/17/2001	0.599	19	11/17/2001	0.958	3	11/17/2001	1.171	16	11/18/2001	0.971
7	11/17/2001	0.861	20	11/17/2001	0.941	4	11/17/2001	1.057	17	11/18/2001	1.242
8	11/17/2001	1.067	21	11/17/2001	1.268	5	11/17/2001	0.981	18	11/18/2001	1.047
9	11/17/2001	0.904	22	11/17/2001	1.331	6	11/17/2001	1.101	19	11/18/2001	0.961
10	11/17/2001	0.915	23	11/17/2001	1.021	7	11/17/2001	0.632	20	11/18/2001	0.946
11	11/17/2001	0.96	24	11/17/2001	1.186	8	11/17/2001	0.793	21	11/18/2001	1
12	11/17/2001	0.945	25	11/17/2001	1.571	9	11/17/2001	1.093	22	11/18/2001	0.894
13	11/17/2001	0.894	26	11/17/2001	1.582	10	11/17/2001	1.169	23	11/18/2001	1.126
14	11/17/2001	0.933	27	11/17/2001	1.032	11	11/17/2001	0.898	24	11/18/2001	0.971
15	11/17/2001	0.942	28	11/17/2001	1.175	12	11/17/2001	0.875	25	11/18/2001	0.987
16	11/17/2001	1.238	29	11/17/2001	1.076	13	11/17/2001	1.31	26	11/18/2001	1.006
17	11/17/2001	1.053	1	11/17/2001	1.166	14	11/17/2001	1.066	27	11/18/2001	1.28
18	11/17/2001	0.948	2	11/17/2001	1.068	15	11/17/2001	1.134	28	11/18/2001	1.059
19	11/17/2001	0.973	3	11/17/2001	1.017	16	11/17/2001	0.843	29	11/18/2001	1.001
20	11/17/2001	1.001	4	11/17/2001	1.096	17	11/17/2001	1.076	1	11/18/2001	1.095
21	11/17/2001	0.882	5	11/17/2001	1.464	18	11/17/2001	1.046	2	11/18/2001	1.095
22	11/17/2001	1.045	6	11/17/2001	1.25	19	11/17/2001	1.192	3	11/18/2001	1.109
23	11/17/2001	0.958	7	11/17/2001	1.109	20	11/17/2001	0.422	4	11/18/2001	1.315
24	11/17/2001	0.944	8	11/17/2001	1.144	21	11/17/2001	1.023	5	11/18/2001	1.326
25	11/17/2001	1.139	9	11/17/2001	0.979	22	11/17/2001	1.148	6	11/18/2001	1.222
26	11/17/2001	1.209	10	11/17/2001	0.587	23	11/17/2001	0.992	7	11/18/2001	1.136
27	11/17/2001	0.858	11	11/17/2001	1.412	24	11/17/2001	1.155	8	11/18/2001	0.768
28	11/17/2001	1.284	12	11/17/2001	1.32	25	11/17/2001	1.21	9	11/18/2001	0.937
29	11/17/2001	1.263	13	11/17/2001	1.067	26	11/18/2001	0.859	10	11/18/2001	1.055
1	11/17/2001	1.213	14	11/17/2001	1.089	27	11/18/2001	0.878	11	11/18/2001	1.146
2	11/17/2001	1.01	15	11/17/2001	1.309	28	11/18/2001	0.885	12	11/18/2001	1.243
3	11/17/2001	1.397	16	11/17/2001	1.561	29	11/18/2001	1.049	13	11/18/2001	0.753
4	11/17/2001	1.507	17	11/17/2001	0.822	1	11/18/2001	0.999	14	11/18/2001	1.133
5	11/17/2001	1.266	18	11/17/2001	1.091	2	11/18/2001	0.942	15	11/18/2001	1.124
6	11/17/2001	0.718	19	11/17/2001	1.018	3	11/18/2001	0.925	16	11/18/2001	0.969
7	11/17/2001	1.179	20	11/17/2001	1.172	4	11/18/2001	0.896	17	11/18/2001	1.478
8	11/17/2001	0.999	21	11/17/2001	0.411	5	11/18/2001	1.057	18	11/18/2001	1.216
9	11/17/2001	0.654	22	11/17/2001	1.038	6	11/18/2001	1.069	19	11/18/2001	1.041
10	11/17/2001	1.166	23	11/17/2001	1.114	7	11/18/2001	0.623	20	11/18/2001	1.129
11	11/17/2001	1.158	24	11/17/2001	0.975	8	11/18/2001	0.857	21	11/18/2001	1.217
12	11/17/2001	1.219	25	11/17/2001	1.159	9	11/18/2001	1.114	22	11/18/2001	1.107
13	11/17/2001	1.2	26	11/17/2001	1.209	10	11/18/2001	0.88	23	11/18/2001	1.086
14	11/17/2001	1.371	27	11/17/2001	1.584	11	11/18/2001	0.901	24	11/18/2001	0.929

ตารางที่ ค.3 ( ต่อ ) ค่า Pitch ก่อนนำส่งลูกค้า

Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN	Part No.	Date	Pitch_FN
25	11/18/2001	1.009	9	11/18/2001	1.168	14	11/16/2001	0.929
26	11/18/2001	0.809	10	11/18/2001	1.038	15	11/16/2001	0.889
27	11/18/2001	0.961	11	11/18/2001	1.064	16	11/16/2001	1.247
28	11/16/2001	1.42	12	11/18/2001	1.185	17	11/16/2001	0.967
29	11/18/2001	0.912	13	11/18/2001	1.18	18	11/16/2001	1.101
1	11/18/2001	1.063	14	11/18/2001	1.058	19	11/16/2001	0.785
2	11/18/2001	0.96	15	11/18/2001	1.022	20	11/16/2001	0.93
3	11/18/2001	0.905	16	11/18/2001	1.102	21	11/16/2001	0.933
4	11/18/2001	1.048	17	11/18/2001	1.003	22	11/16/2001	1.432
5	11/18/2001	1.079	18	11/18/2001	1.455	23	11/16/2001	0.862
6	11/18/2001	0.62	19	11/18/2001	1.077	24	11/16/2001	0.945
7	11/18/2001	0.846	20	11/18/2001	1.034	25	11/16/2001	1.085
8	11/18/2001	1.076	21	11/18/2001	0.908	26	11/16/2001	1.079
9	11/18/2001	1.061	22	11/18/2001	1.125			
10	11/18/2001	0.88	23	11/18/2001	1.21			
11	11/18/2001	1.01	19	11/16/2001	1.194			
12	11/18/2001	0.944	20	11/16/2001	1.109			
13	11/18/2001	0.864	21	11/16/2001	1.187			
14	11/18/2001	0.886	22	11/16/2001	0.982			
15	11/18/2001	0.994	23	11/16/2001	1.549			
16	11/18/2001	1.232	24	11/16/2001	1.051			
17	11/18/2001	1.018	25	11/16/2001	0.935			
18	11/18/2001	0.935	26	11/16/2001	1.037			
19	11/18/2001	0.908	27	11/16/2001	1.031			
20	11/18/2001	1.001	28	11/16/2001	1.181			
21	11/18/2001	0.844	29	11/16/2001	1.739			
22	11/18/2001	1.098	1	11/16/2001	1.232			
23	11/18/2001	0.968	2	11/16/2001	1.246			
24	11/18/2001	1.234	3	11/16/2001	1.54			
25	11/18/2001	1.308	4	11/16/2001	1.554			
26	11/18/2001	1.174	5	11/16/2001	1.755			
27	11/18/2001	1.344	6	11/16/2001	1.75			
28	11/18/2001	0.981	7	11/16/2001	1.173			
29	11/18/2001	1.217	8	11/16/2001	1.027			
1	11/18/2001	0.973	9	11/16/2001	1.161			
2	11/18/2001	1.156	7	11/16/2001	1.516			
3	11/18/2001	1.283	8	11/16/2001	1.534			
4	11/18/2001	1.082	9	11/16/2001	1.254			
5	11/18/2001	1.031	10	11/16/2001	1.26			
6	11/18/2001	1.025	11	11/16/2001	1.052			
7	11/18/2001	1.163	12	11/16/2001	1.022			
8	11/18/2001	1.149	13	11/16/2001	1.006			

## ประวัติผู้เขียน

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