Printing Input Parameters.....

parameters	unit	values
Basin Area	sq mile	5.0
Avg_GL	feet-PWD	3.5
Highest Water Level ,RS	feet-PWD	10.5
Lowest Water Level,RS	feet-PWD	-6.5
Moonsoon Lowest Water Level	feet-PWD	-5.4
Embankment Crest Level	feet-PWD	13.0
Embankment Top Width	feet-PWD	14.0
C/S Slope (1:N)	nan	2.0
R/S Slope	nan	3.0
Invert Level	feet-PWD	-5.0
Discharge/sq mile	cfs/sqmile	27.702
No Vent	nan	1.0
Vent Width	feet	5.0
Vent Height	feet	6.0
Pier_width	inch	15.0
Abutment_width	inch	18.0
flare_Angle_min	degree	8.0
flare_Angle_max	degree	20.0
glacis_drop_min	feet	3.0
glacis_drop_max	feet	20.0
Barrel Length	feet	24.0
cutoff_depth_min	min	6.0

cutoff_depth_max	max	19.68
Laycey's Silt Factor	nan	0.4
maximum head difference	feet	6.0
Allowable Exit Gradient	nan	0.143
minimum_floor_thickness	feet	1.5
Top_slab_thickness	inch	12.0
unit weight of fill soil	pcf	120.0
friction Angle of fill soil	degree	30.0
surchrge height	feet	6.0

Printing Stilling Basin Calcualtion in FPS unit.....

Q	FAngle	g_drop	Bc	q	dc	vc	B1	q1	d1	v1	B2	q2	d2	v2	Fr1	LJ	Eff	Del_E	Del_E(%)
369.06	8.0	3.0	8.0	46.132	4.043	11.41	10.53	35.049	1.598	21.928	19.369	19.054	6.156	3.095	3.057	31.448	73.5	2.405	26.5
369.06	8.0	4.0	8.0	46.132	4.043	11.41	11.373	32.45	1.371	23.661	20.843	17.707	6.254	2.831	3.561	33.69	66.3	3.393	33.7
369.06	8.0	5.0	8.0	46.132	4.043	11.41	12.216	30.21	1.199	25.207	22.119	16.685	6.304	2.647	4.058	35.229	60.2	4.404	39.8
369.06	8.0	6.0	8.0	46.132	4.043	11.41	13.059	28.26	1.062	26.62	23.268	15.861	6.325	2.508	4.553	36.319	55.0	5.429	45.0
369.06	8.0	7.0	8.0	46.132	4.043	11.41	13.903	26.546	0.95	27.931	24.332	15.168	6.328	2.397	5.049	37.103	50.5	6.464	49.5
369.06	8.0	8.0	8.0	46.132	4.043	11.41	14.746	25.028	0.858	29.163	25.334	14.567	6.318	2.306	5.548	37.67	46.7	7.503	53.3
369.06	8.0	9.0	8.0	46.132	4.043	11.41	15.589	23.674	0.781	30.33	26.293	14.037	6.299	2.228	6.05	38.079	43.3	8.546	56.7
369.06	8.0	10.0	8.0	46.132	4.043	11.41	16.432	22.459	0.714	31.441	27.217	13.56	6.275	2.161	6.556	38.37	40.3	9.591	59.7
369.06	8.0	11.0	8.0	46.132	4.043	11.41	17.276	21.363	0.657	32.506	28.117	13.126	6.247	2.101	7.066	38.57	37.7	10.636	62.3
369.06	8.0	12.0	8.0	46.132	4.043	11.41	18.119	20.369	0.607	33.53	28.997	12.727	6.216	2.047	7.581	38.701	35.3	11.682	64.7
369.06	8.0	13.0	8.0	46.132	4.043	11.41	18.962	19.463	0.564	34.517	29.862	12.359	6.184	1.999	8.101	38.778	33.2	12.727	66.8
369.06	8.0	14.0	8.0	46.132	4.043	11.41	19.805	18.634	0.525	35.473	30.715	12.016	6.15	1.954	8.625	38.812	31.4	13.772	68.6
369.06	8.0	15.0	8.0	46.132	4.043	11.41	20.649	17.873	0.491	36.4	31.558	11.695	6.116	1.912	9.154	38.812	29.7	14.816	70.3
369.06	8.0	16.0	8.0	46.132	4.043	11.41	21.492	17.172	0.46	37.3	32.394	11.393	6.081	1.873	9.688	38.785	28.1	15.859	71.9
369.06	8.0	17.0	8.0	46.132	4.043	11.41	22.335	16.524	0.433	38.177	33.223	11.108	6.047	1.837	10.226	38.737	26.7	16.902	73.3
369.06	8.0	18.0	8.0	46.132	4.043	11.41	23.178	15.922	0.408	39.032	34.048	10.839	6.012	1.803	10.77	38.671	25.4	17.943	74.6
369.06	8.0	19.0	8.0	46.132	4.043	11.41	24.022	15.364	0.385	39.867	34.869	10.584	5.978	1.77	11.317	38.591	24.3	18.984	75.7
369.06	8.0	20.0	8.0	46.132	4.043	11.41	24.865	14.843	0.365	40.683	35.686	10.342	5.944	1.74	11.869	38.499	23.2	20.023	76.8
369.06	9.0	3.0	8.0	46.132	4.043	11.41	10.851	34.012	1.546	22.005	20.781	17.759	6.089	2.917	3.119	31.349	72.5	2.491	27.5
369.06	9.0	4.0	8.0	46.132	4.043	11.41	11.801	31.273	1.318	23.734	22.392	16.482	6.163	2.674	3.644	33.432	65.2	3.502	34.8
369.06	9.0	5.0	8.0	46.132	4.043	11.41	12.752	28.942	1.145	25.275	23.783	15.518	6.192	2.506	4.162	34.826	59.0	4.533	41.0
369.06	9.0	6.0	8.0	46.132	4.043	11.41	13.702	26.935	1.009	26.683	25.037	14.74	6.196	2.379	4.68	35.784	53.8	5.576	46.2

369.06	9.0	7.0	8.0	46.132	4.043	11.41	14.652	25.188	0.9	27.989	26.199	14.087	6.183	2.278	5.2	36.451	49.3	6.624	50.7
369.06	9.0	8.0	8.0	46.132	4.043	11.41	15.602	23.654	0.81	29.217	27.296	13.521	6.159	2.195	5.722	36.914	45.4	7.676	54.6
369.06	9.0	9.0	8.0	46.132	4.043	11.41	16.553	22.296	0.734	30.379	28.346	13.02	6.13	2.124	6.249	37.23	42.1	8.73	57.9
369.06	9.0	10.0	8.0	46.132	4.043	11.41	17.503	21.085	0.67	31.487	29.362	12.569	6.096	2.062	6.781	37.438	39.1	9.783	60.9
369.06	9.0	11.0	8.0	46.132	4.043	11.41	18.453	19.999	0.614	32.548	30.353	12.159	6.059	2.007	7.317	37.566	36.5	10.837	63.5
369.06	9.0	12.0	8.0	46.132	4.043	11.41	19.404	19.02	0.567	33.569	31.324	11.782	6.02	1.957	7.859	37.632	34.2	11.889	65.8
369.06	9.0	13.0	8.0	46.132	4.043	11.41	20.354	18.132	0.525	34.554	32.28	11.433	5.981	1.911	8.406	37.65	32.1	12.941	67.9
369.06	9.0	14.0	8.0	46.132	4.043	11.41	21.304	17.323	0.488	35.507	33.225	11.108	5.942	1.869	8.958	37.632	30.3	13.991	69.7
369.06	9.0	15.0	8.0	46.132	4.043	11.41	22.255	16.583	0.455	36.431	34.161	10.804	5.902	1.83	9.516	37.586	28.6	15.04	71.4
369.06	9.0	16.0	8.0	46.132	4.043	11.41	23.205	15.904	0.426	37.33	35.089	10.518	5.863	1.794	10.079	37.517	27.1	16.087	72.9
369.06	9.0	17.0	8.0	46.132	4.043	11.41	24.155	15.279	0.4	38.205	36.012	10.248	5.825	1.759	10.647	37.431	25.7	17.133	74.3
369.06	9.0	18.0	8.0	46.132	4.043	11.41	25.106	14.7	0.376	39.058	36.931	9.993	5.787	1.727	11.22	37.33	24.5	18.178	75.5
369.06	9.0	19.0	8.0	46.132	4.043	11.41	26.056	14.164	0.355	39.891	37.846	9.752	5.749	1.696	11.798	37.219	23.3	19.221	76.7
369.06	9.0	20.0	8.0	46.132	4.043	11.41	27.006	13.666	0.336	40.706	38.758	9.522	5.713	1.667	12.38	37.1	22.3	20.263	77.7
369.06	10.0	3.0	8.0	46.132	4.043	11.41	11.174	33.029	1.496	22.078	22.19	16.632	6.023	2.761	3.181	31.238	71.6	2.574	28.4
369.06	10.0	4.0	8.0	46.132	4.043	11.41	12.232	30.172	1.268	23.802	23.93	15.423	6.075	2.539	3.726	33.17	64.2	3.607	35.8
369.06	10.0	5.0	8.0	46.132	4.043	11.41	13.29	27.77	1.096	25.337	25.431	14.512	6.085	2.385	4.265	34.427	57.9	4.656	42.1
369.06	10.0	6.0	8.0	46.132	4.043	11.41	14.348	25.722	0.962	26.74	26.784	13.779	6.073	2.269	4.805	35.265	52.6	5.713	47.4
369.06	10.0	7.0	8.0	46.132	4.043	11.41	15.406	23.956	0.854	28.042	28.04	13.162	6.046	2.177	5.347	35.826	48.1	6.775	51.9
369.06	10.0	8.0	8.0	46.132	4.043	11.41	16.464	22.416	0.766	29.265	29.228	12.627	6.012	2.1	5.893	36.196	44.3	7.837	55.7
369.06	10.0	9.0	8.0	46.132	4.043	11.41	17.522	21.063	0.692	30.423	30.369	12.152	5.972	2.035	6.444	36.431	40.9	8.899	59.1
369.06	10.0	10.0	8.0	46.132	4.043	11.41	18.58	19.864	0.63	31.528	31.475	11.725	5.93	1.977	7.0	36.568	38.0	9.961	62.0
369.06	10.0	11.0	8.0	46.132	4.043	11.41	19.638	18.793	0.577	32.586	32.556	11.336	5.886	1.926	7.562	36.632	35.4	11.021	64.6
369.06	10.0	12.0	8.0	46.132	4.043	11.41	20.696	17.833	0.531	33.603	33.618	10.978	5.841	1.879	8.129	36.643	33.1	12.079	66.9

369.06	10.0	13.0	8.0	46.132	4.043	11.41	21.754	16.965	0.491	34.586	34.665	10.646	5.797	1.837	8.702	36.612	31.1	13.135	68.9
369.06	10.0	14.0	8.0	46.132	4.043	11.41	22.811	16.179	0.455	35.537	35.701	10.337	5.752	1.797	9.281	36.551	29.3	14.189	70.7
369.06	10.0	15.0	8.0	46.132	4.043	11.41	23.869	15.462	0.424	36.459	36.729	10.048	5.709	1.76	9.866	36.466	27.6	15.242	72.4
369.06	10.0	16.0	8.0	46.132	4.043	11.41	24.927	14.805	0.396	37.356	37.751	9.776	5.666	1.725	10.457	36.362	26.2	16.292	73.8
369.06	10.0	17.0	8.0	46.132	4.043	11.41	25.985	14.203	0.372	38.229	38.767	9.52	5.624	1.693	11.053	36.245	24.8	17.341	75.2
369.06	10.0	18.0	8.0	46.132	4.043	11.41	27.043	13.647	0.349	39.08	39.78	9.277	5.584	1.662	11.654	36.117	23.6	18.388	76.4
369.06	10.0	19.0	8.0	46.132	4.043	11.41	28.101	13.133	0.329	39.912	40.79	9.048	5.544	1.632	12.262	35.981	22.5	19.434	77.5
369.06	10.0	20.0	8.0	46.132	4.043	11.41	29.159	12.657	0.311	40.725	41.798	8.829	5.505	1.604	12.874	35.84	21.4	20.478	78.6
369.06	11.0	3.0	8.0	46.132	4.043	11.41	11.499	32.095	1.449	22.146	23.596	15.641	5.959	2.625	3.242	31.118	70.7	2.655	29.3
369.06	11.0	4.0	8.0	46.132	4.043	11.41	12.665	29.14	1.221	23.865	25.458	14.497	5.99	2.42	3.806	32.906	63.2	3.707	36.8
369.06	11.0	5.0	8.0	46.132	4.043	11.41	13.831	26.683	1.051	25.395	27.063	13.637	5.983	2.279	4.366	34.035	56.9	4.773	43.1
369.06	11.0	6.0	8.0	46.132	4.043	11.41	14.998	24.608	0.918	26.792	28.512	12.944	5.956	2.173	4.927	34.762	51.6	5.843	48.4
369.06	11.0	7.0	8.0	46.132	4.043	11.41	16.164	22.832	0.813	28.089	29.859	12.36	5.918	2.089	5.491	35.227	47.1	6.915	52.9
369.06	11.0	8.0	8.0	46.132	4.043	11.41	17.33	21.296	0.727	29.308	31.137	11.853	5.874	2.018	6.059	35.514	43.2	7.987	56.8
369.06	11.0	9.0	8.0	46.132	4.043	11.41	18.497	19.953	0.655	30.463	32.366	11.403	5.826	1.957	6.633	35.677	39.9	9.057	60.1
369.06	11.0	10.0	8.0	46.132	4.043	11.41	19.663	18.769	0.595	31.564	33.562	10.996	5.776	1.904	7.213	35.751	37.0	10.125	63.0
369.06	11.0	11.0	8.0	46.132	4.043	11.41	20.829	17.718	0.543	32.619	34.732	10.626	5.726	1.856	7.799	35.761	34.4	11.19	65.6
369.06	11.0	12.0	8.0	46.132	4.043	11.41	21.995	16.779	0.499	33.634	35.884	10.285	5.676	1.812	8.392	35.724	32.2	12.253	67.8
369.06	11.0	13.0	8.0	46.132	4.043	11.41	23.162	15.934	0.46	34.614	37.022	9.969	5.627	1.771	8.991	35.652	30.2	13.313	69.8
369.06	11.0	14.0	8.0	46.132	4.043	11.41	24.328	15.17	0.427	35.563	38.15	9.674	5.579	1.734	9.595	35.554	28.4	14.371	71.6
369.06	11.0	15.0	8.0	46.132	4.043	11.41	25.494	14.476	0.397	36.483	39.27	9.398	5.532	1.699	10.207	35.436	26.8	15.426	73.2
369.06	11.0	16.0	8.0	46.132	4.043	11.41	26.661	13.843	0.37	37.378	40.385	9.138	5.487	1.666	10.824	35.304	25.3	16.479	74.7
369.06	11.0	17.0	8.0	46.132	4.043	11.41	27.827	13.263	0.347	38.25	41.496	8.894	5.443	1.634	11.447	35.161	24.0	17.53	76.0
369.06	11.0	18.0	8.0	46.132	4.043	11.41	28.993	12.729	0.326	39.1	42.604	8.663	5.4	1.604	12.076	35.011	22.8	18.579	77.2

369.06	11.0	19.0	8.0	46.132	4.043	11.41	30.159	12.237	0.306	39.93	43.71	8.443	5.358	1.576	12.711	34.855	21.7	19.626	78.3
369.06	11.0	20.0	8.0	46.132	4.043	11.41	31.326	11.781	0.289	40.742	44.814	8.235	5.318	1.549	13.352	34.696	20.7	20.671	79.3
369.06	12.0	3.0	8.0	46.132	4.043	11.41	11.826	31.207	1.405	22.21	25.0	14.762	5.896	2.504	3.302	30.989	69.8	2.733	30.2
369.06	12.0	4.0	8.0	46.132	4.043	11.41	13.101	28.169	1.177	23.924	26.977	13.681	5.908	2.316	3.885	32.639	62.2	3.804	37.8
369.06	12.0	5.0	8.0	46.132	4.043	11.41	14.377	25.671	1.009	25.448	28.681	12.867	5.885	2.186	4.465	33.649	55.9	4.884	44.1
369.06	12.0	6.0	8.0	46.132	4.043	11.41	15.652	23.579	0.878	26.84	30.222	12.211	5.846	2.089	5.046	34.274	50.5	5.966	49.5
369.06	12.0	7.0	8.0	46.132	4.043	11.41	16.927	21.802	0.775	28.133	31.658	11.658	5.797	2.011	5.632	34.652	46.1	7.048	53.9
369.06	12.0	8.0	8.0	46.132	4.043	11.41	18.203	20.275	0.691	29.347	33.024	11.175	5.744	1.946	6.222	34.864	42.2	8.128	57.8
369.06	12.0	9.0	8.0	46.132	4.043	11.41	19.478	18.947	0.621	30.498	34.342	10.747	5.688	1.889	6.819	34.964	38.9	9.204	61.1
369.06	12.0	10.0	8.0	46.132	4.043	11.41	20.753	17.783	0.563	31.596	35.625	10.359	5.633	1.839	7.422	34.983	36.0	10.277	64.0
369.06	12.0	11.0	8.0	46.132	4.043	11.41	22.029	16.753	0.513	32.648	36.885	10.006	5.578	1.794	8.032	34.946	33.5	11.347	66.5
369.06	12.0	12.0	8.0	46.132	4.043	11.41	23.304	15.837	0.47	33.661	38.127	9.68	5.524	1.752	8.648	34.867	31.3	12.413	68.7
369.06	12.0	13.0	8.0	46.132	4.043	11.41	24.579	15.015	0.433	34.639	39.356	9.377	5.471	1.714	9.272	34.76	29.3	13.477	70.7
369.06	12.0	14.0	8.0	46.132	4.043	11.41	25.855	14.274	0.401	35.586	40.576	9.095	5.42	1.678	9.902	34.63	27.5	14.537	72.5
369.06	12.0	15.0	8.0	46.132	4.043	11.41	27.13	13.603	0.373	36.504	41.79	8.831	5.37	1.644	10.538	34.485	26.0	15.595	74.0
369.06	12.0	16.0	8.0	46.132	4.043	11.41	28.405	12.992	0.347	37.398	42.999	8.583	5.323	1.613	11.181	34.329	24.5	16.65	75.5
369.06	12.0	17.0	8.0	46.132	4.043	11.41	29.681	12.434	0.325	38.268	44.205	8.349	5.276	1.582	11.831	34.165	23.3	17.702	76.7
369.06	12.0	18.0	8.0	46.132	4.043	11.41	30.956	11.922	0.305	39.117	45.408	8.128	5.232	1.553	12.487	33.996	22.1	18.752	77.9
369.06	12.0	19.0	8.0	46.132	4.043	11.41	32.231	11.45	0.287	39.946	46.61	7.918	5.189	1.526	13.149	33.824	21.0	19.8	79.0
369.06	12.0	20.0	8.0	46.132	4.043	11.41	33.507	11.014	0.27	40.757	47.812	7.719	5.147	1.5	13.817	33.65	20.0	20.847	80.0
369.06	13.0	3.0	8.0	46.132	4.043	11.41	12.156	30.361	1.363	22.27	26.401	13.979	5.835	2.396	3.361	30.852	69.0	2.81	31.0
369.06	13.0	4.0	8.0	46.132	4.043	11.41	13.541	27.255	1.137	23.978	28.488	12.955	5.828	2.223	3.964	32.372	61.3	3.897	38.7
369.06	13.0	5.0	8.0	46.132	4.043	11.41	14.926	24.726	0.97	25.497	30.288	12.185	5.792	2.104	4.563	33.27	54.9	4.99	45.1
369.06	13.0	6.0	8.0	46.132	4.043	11.41	16.311	22.626	0.842	26.884	31.918	11.563	5.74	2.014	5.164	33.801	49.6	6.083	50.4

369.06	13.0	7.0	8.0	46.132	4.043	11.41	17.696	20.855	0.74	28.173	33.441	11.036	5.682	1.942	5.77	34.099	45.1	7.173	54.9
369.06	13.0	8.0	8.0	46.132	4.043	11.41	19.082	19.341	0.658	29.383	34.894	10.577	5.621	1.882	6.382	34.245	41.3	8.26	58.7
369.06	13.0	9.0	8.0	46.132	4.043	11.41	20.467	18.032	0.591	30.531	36.298	10.167	5.56	1.829	7.001	34.287	38.0	9.342	62.0
369.06	13.0	10.0	8.0	46.132	4.043	11.41	21.852	16.889	0.534	31.626	37.67	9.797	5.499	1.782	7.627	34.258	35.1	10.419	64.9
369.06	13.0	11.0	8.0	46.132	4.043	11.41	23.237	15.882	0.486	32.675	39.019	9.458	5.44	1.739	8.259	34.179	32.7	11.493	67.3
369.06	13.0	12.0	8.0	46.132	4.043	11.41	24.623	14.989	0.445	33.685	40.352	9.146	5.382	1.699	8.899	34.065	30.5	12.562	69.5
369.06	13.0	13.0	8.0	46.132	4.043	11.41	26.008	14.19	0.409	34.661	41.673	8.856	5.326	1.663	9.546	33.927	28.5	13.628	71.5
369.06	13.0	14.0	8.0	46.132	4.043	11.41	27.393	13.473	0.378	35.606	42.986	8.586	5.273	1.628	10.201	33.77	26.8	14.691	73.2
369.06	13.0	15.0	8.0	46.132	4.043	11.41	28.778	12.824	0.351	36.523	44.293	8.332	5.221	1.596	10.862	33.602	25.2	15.75	74.8
369.06	13.0	16.0	8.0	46.132	4.043	11.41	30.163	12.235	0.327	37.415	45.597	8.094	5.171	1.565	11.53	33.426	23.8	16.806	76.2
369.06	13.0	17.0	8.0	46.132	4.043	11.41	31.549	11.698	0.306	38.284	46.899	7.869	5.124	1.536	12.205	33.245	22.6	17.86	77.4
369.06	13.0	18.0	8.0	46.132	4.043	11.41	32.934	11.206	0.286	39.132	48.199	7.657	5.078	1.508	12.887	33.06	21.4	18.911	78.6
369.06	13.0	19.0	8.0	46.132	4.043	11.41	34.319	10.754	0.269	39.96	49.498	7.456	5.034	1.481	13.575	32.874	20.4	19.96	79.6
369.06	13.0	20.0	8.0	46.132	4.043	11.41	35.704	10.337	0.254	40.771	50.798	7.265	4.991	1.456	14.269	32.689	19.4	21.007	80.6
369.06	14.0	3.0	8.0	46.132	4.043	11.41	12.488	29.553	1.324	22.328	27.801	13.275	5.774	2.299	3.42	30.709	68.2	2.884	31.8
369.06	14.0	4.0	8.0	46.132	4.043	11.41	13.984	26.392	1.098	24.03	29.993	12.305	5.751	2.14	4.041	32.104	60.4	3.987	39.6
369.06	14.0	5.0	8.0	46.132	4.043	11.41	15.48	23.841	0.933	25.543	31.885	11.575	5.701	2.03	4.659	32.898	54.0	5.092	46.0
369.06	14.0	6.0	8.0	46.132	4.043	11.41	16.976	21.74	0.807	26.925	33.602	10.983	5.64	1.948	5.281	33.341	48.7	6.194	51.3
369.06	14.0	7.0	8.0	46.132	4.043	11.41	18.472	19.98	0.708	28.209	35.21	10.482	5.573	1.881	5.907	33.567	44.2	7.292	55.8
369.06	14.0	8.0	8.0	46.132	4.043	11.41	19.968	18.483	0.628	29.416	36.749	10.043	5.505	1.824	6.54	33.652	40.4	8.384	59.6
369.06	14.0	9.0	8.0	46.132	4.043	11.41	21.464	17.194	0.563	30.56	38.24	9.651	5.439	1.775	7.18	33.644	37.1	9.471	62.9
369.06	14.0	10.0	8.0	46.132	4.043	11.41	22.96	16.074	0.508	31.652	39.7	9.296	5.373	1.73	7.827	33.572	34.3	10.552	65.7
369.06	14.0	11.0	8.0	46.132	4.043	11.41	24.456	15.091	0.462	32.699	41.139	8.971	5.31	1.689	8.482	33.457	31.9	11.629	68.1
369.06	14.0	12.0	8.0	46.132	4.043	11.41	25.952	14.221	0.422	33.708	42.563	8.671	5.25	1.652	9.145	33.311	29.7	12.701	70.3

369.06	14.0	13.0	8.0	46.132	4.043	11.41	27.448	13.446	0.388	34.681	43.976	8.392	5.191	1.617	9.816	33.146	27.8	13.769	72.2
369.06	14.0	14.0	8.0	46.132	4.043	11.41	28.944	12.751	0.358	35.625	45.383	8.132	5.136	1.583	10.494	32.967	26.1	14.833	73.9
369.06	14.0	15.0	8.0	46.132	4.043	11.41	30.44	12.124	0.332	36.54	46.785	7.888	5.082	1.552	11.179	32.779	24.5	15.894	75.5
369.06	14.0	16.0	8.0	46.132	4.043	11.41	31.935	11.556	0.309	37.431	48.185	7.659	5.031	1.522	11.872	32.586	23.2	16.951	76.8
369.06	14.0	17.0	8.0	46.132	4.043	11.41	33.431	11.039	0.288	38.299	49.583	7.443	4.982	1.494	12.571	32.39	21.9	18.006	78.1
369.06	14.0	18.0	8.0	46.132	4.043	11.41	34.927	10.566	0.27	39.146	50.98	7.239	4.935	1.467	13.278	32.192	20.8	19.058	79.2
369.06	14.0	19.0	8.0	46.132	4.043	11.41	36.423	10.132	0.253	39.973	52.378	7.046	4.891	1.441	13.992	31.996	19.8	20.108	80.2
369.06	14.0	20.0	8.0	46.132	4.043	11.41	37.919	9.733	0.239	40.782	53.777	6.863	4.847	1.416	14.712	31.8	18.8	21.155	81.2
369.06	15.0	3.0	8.0	46.132	4.043	11.41	12.823	28.781	1.286	22.382	29.201	12.639	5.715	2.211	3.478	30.561	67.4	2.956	32.6
369.06	15.0	4.0	8.0	46.132	4.043	11.41	14.431	25.574	1.062	24.078	31.492	11.719	5.676	2.065	4.117	31.837	59.5	4.073	40.5
369.06	15.0	5.0	8.0	46.132	4.043	11.41	16.038	23.011	0.899	25.586	33.473	11.026	5.614	1.964	4.755	32.533	53.1	5.19	46.9
369.06	15.0	6.0	8.0	46.132	4.043	11.41	17.646	20.914	0.776	26.963	35.275	10.462	5.543	1.887	5.395	32.896	47.8	6.301	52.2
369.06	15.0	7.0	8.0	46.132	4.043	11.41	19.254	19.168	0.679	28.243	36.968	9.983	5.469	1.825	6.042	33.055	43.3	7.405	56.7
369.06	15.0	8.0	8.0	46.132	4.043	11.41	20.862	17.691	0.601	29.446	38.592	9.563	5.396	1.772	6.695	33.085	39.6	8.502	60.4
369.06	15.0	9.0	8.0	46.132	4.043	11.41	22.469	16.425	0.537	30.587	40.17	9.187	5.324	1.726	7.356	33.031	36.3	9.593	63.7
369.06	15.0	10.0	8.0	46.132	4.043	11.41	24.077	15.328	0.484	31.677	41.719	8.846	5.255	1.683	8.025	32.921	33.5	10.678	66.5
369.06	15.0	11.0	8.0	46.132	4.043	11.41	25.685	14.369	0.439	32.721	43.248	8.534	5.189	1.645	8.702	32.773	31.1	11.757	68.9
369.06	15.0	12.0	8.0	46.132	4.043	11.41	27.292	13.522	0.401	33.728	44.763	8.245	5.126	1.609	9.387	32.601	29.0	12.831	71.0
369.06	15.0	13.0	8.0	46.132	4.043	11.41	28.9	12.77	0.368	34.7	46.27	7.976	5.065	1.575	10.08	32.412	27.1	13.901	72.9
369.06	15.0	14.0	8.0	46.132	4.043	11.41	30.508	12.097	0.339	35.641	47.771	7.726	5.008	1.543	10.781	32.213	25.4	14.966	74.6
369.06	15.0	15.0	8.0	46.132	4.043	11.41	32.115	11.492	0.314	36.556	49.269	7.491	4.953	1.512	11.49	32.009	23.9	16.028	76.1
369.06	15.0	16.0	8.0	46.132	4.043	11.41	33.723	10.944	0.292	37.445	50.765	7.27	4.901	1.483	12.206	31.801	22.6	17.086	77.4
369.06	15.0	17.0	8.0	46.132	4.043	11.41	35.331	10.446	0.273	38.312	52.261	7.062	4.851	1.456	12.93	31.592	21.3	18.141	78.7
369.06	15.0	18.0	8.0	46.132	4.043	11.41	36.939	9.991	0.255	39.158	53.757	6.865	4.804	1.429	13.661	31.384	20.2	19.194	79.8

369.06	15.0	19.0	8.0	46.132	4.043	11.41	38.546	9.574	0.239	39.984	55.254	6.679	4.758	1.404	14.4	31.178	19.2	20.244	80.8
369.06	15.0	20.0	8.0	46.132	4.043	11.41	40.154	9.191	0.225	40.793	56.753	6.503	4.714	1.379	15.145	30.975	18.3	21.291	81.7
369.06	16.0	3.0	8.0	46.132	4.043	11.41	13.161	28.041	1.25	22.434	30.6	12.061	5.657	2.132	3.536	30.408	66.6	3.026	33.4
369.06	16.0	4.0	8.0	46.132	4.043	11.41	14.882	24.799	1.028	24.124	32.987	11.188	5.603	1.997	4.193	31.57	58.7	4.157	41.3
369.06	16.0	5.0	8.0	46.132	4.043	11.41	16.602	22.229	0.867	25.626	35.054	10.528	5.53	1.904	4.849	32.174	52.2	5.283	47.8
369.06	16.0	6.0	8.0	46.132	4.043	11.41	18.323	20.142	0.746	26.999	36.94	9.991	5.451	1.833	5.508	32.462	46.9	6.402	53.1
369.06	16.0	7.0	8.0	46.132	4.043	11.41	20.043	18.413	0.651	28.274	38.717	9.532	5.37	1.775	6.174	32.561	42.5	7.512	57.5
369.06	16.0	8.0	8.0	46.132	4.043	11.41	21.764	16.957	0.575	29.474	40.426	9.129	5.291	1.725	6.848	32.541	38.8	8.614	61.2
369.06	16.0	9.0	8.0	46.132	4.043	11.41	23.484	15.715	0.513	30.612	42.092	8.768	5.216	1.681	7.529	32.446	35.6	9.708	64.4
369.06	16.0	10.0	8.0	46.132	4.043	11.41	25.205	14.642	0.462	31.699	43.729	8.44	5.143	1.641	8.219	32.301	32.8	10.796	67.2
369.06	16.0	11.0	8.0	46.132	4.043	11.41	26.925	13.707	0.419	32.742	45.349	8.138	5.074	1.604	8.918	32.125	30.4	11.877	69.6
369.06	16.0	12.0	8.0	46.132	4.043	11.41	28.646	12.884	0.382	33.746	46.957	7.86	5.009	1.569	9.625	31.929	28.3	12.953	71.7
369.06	16.0	13.0	8.0	46.132	4.043	11.41	30.366	12.154	0.35	34.716	48.557	7.6	4.947	1.536	10.34	31.72	26.4	14.024	73.6
369.06	16.0	14.0	8.0	46.132	4.043	11.41	32.087	11.502	0.323	35.657	50.154	7.358	4.888	1.505	11.064	31.504	24.8	15.09	75.2
369.06	16.0	15.0	8.0	46.132	4.043	11.41	33.807	10.917	0.299	36.57	51.749	7.132	4.833	1.476	11.795	31.285	23.3	16.153	76.7
369.06	16.0	16.0	8.0	46.132	4.043	11.41	35.528	10.388	0.277	37.458	53.343	6.919	4.779	1.448	12.535	31.065	22.0	17.212	78.0
369.06	16.0	17.0	8.0	46.132	4.043	11.41	37.248	9.908	0.259	38.324	54.938	6.718	4.729	1.421	13.283	30.845	20.8	18.268	79.2
369.06	16.0	18.0	8.0	46.132	4.043	11.41	38.969	9.471	0.242	39.169	56.534	6.528	4.681	1.395	14.038	30.628	19.7	19.32	80.3
369.06	16.0	19.0	8.0	46.132	4.043	11.41	40.689	9.07	0.227	39.995	58.131	6.349	4.635	1.37	14.8	30.415	18.7	20.371	81.3
369.06	16.0	20.0	8.0	46.132	4.043	11.41	42.409	8.702	0.213	40.802	59.732	6.179	4.591	1.346	15.57	30.205	17.8	21.418	82.2
369.06	17.0	3.0	8.0	46.132	4.043	11.41	13.503	27.331	1.216	22.483	32.001	11.533	5.6	2.059	3.594	30.252	65.9	3.095	34.1
369.06	17.0	4.0	8.0	46.132	4.043	11.41	15.338	24.062	0.996	24.167	34.479	10.704	5.533	1.935	4.268	31.305	57.9	4.238	42.1
369.06	17.0	5.0	8.0	46.132	4.043	11.41	17.172	21.492	0.837	25.664	36.63	10.075	5.449	1.849	4.942	31.822	51.4	5.374	48.6
369.06	17.0	6.0	8.0	46.132	4.043	11.41	19.006	19.418	0.718	27.032	38.598	9.562	5.362	1.783	5.621	32.041	46.1	6.499	53.9

369.06	17.0	7.0	8.0	46.132	4.043	11.41	20.841	17.709	0.626	28.303	40.458	9.122	5.275	1.729	6.306	32.083	41.7	7.614	58.3
369.06	17.0	8.0	8.0	46.132	4.043	11.41	22.675	16.276	0.552	29.5	42.253	8.734	5.192	1.682	6.999	32.018	38.0	8.72	62.0
369.06	17.0	9.0	8.0	46.132	4.043	11.41	24.509	15.058	0.492	30.635	44.006	8.386	5.113	1.64	7.701	31.886	34.8	9.817	65.2
369.06	17.0	10.0	8.0	46.132	4.043	11.41	26.344	14.009	0.442	31.719	45.734	8.07	5.037	1.602	8.411	31.711	32.1	10.907	67.9
369.06	17.0	11.0	8.0	46.132	4.043	11.41	28.178	13.097	0.4	32.76	47.445	7.779	4.966	1.566	9.131	31.509	29.7	11.99	70.3
369.06	17.0	12.0	8.0	46.132	4.043	11.41	30.013	12.297	0.364	33.763	49.146	7.509	4.899	1.533	9.859	31.292	27.7	13.068	72.3
369.06	17.0	13.0	8.0	46.132	4.043	11.41	31.847	11.588	0.334	34.732	50.842	7.259	4.836	1.501	10.596	31.065	25.8	14.14	74.2
369.06	17.0	14.0	8.0	46.132	4.043	11.41	33.681	10.957	0.307	35.67	52.535	7.025	4.776	1.471	11.342	30.834	24.2	15.207	75.8
369.06	17.0	15.0	8.0	46.132	4.043	11.41	35.516	10.391	0.284	36.582	54.228	6.806	4.719	1.442	12.096	30.602	22.8	16.27	77.2
369.06	17.0	16.0	8.0	46.132	4.043	11.41	37.35	9.881	0.264	37.47	55.921	6.6	4.665	1.415	12.859	30.372	21.5	17.33	78.5
369.06	17.0	17.0	8.0	46.132	4.043	11.41	39.185	9.418	0.246	38.335	57.616	6.405	4.614	1.388	13.629	30.144	20.3	18.386	79.7
369.06	17.0	18.0	8.0	46.132	4.043	11.41	41.019	8.997	0.23	39.179	59.313	6.222	4.566	1.363	14.408	29.919	19.2	19.439	80.8
369.06	17.0	19.0	8.0	46.132	4.043	11.41	42.853	8.612	0.215	40.004	61.013	6.049	4.519	1.338	15.194	29.699	18.3	20.489	81.7
369.06	17.0	20.0	8.0	46.132	4.043	11.41	44.688	8.259	0.202	40.811	62.716	5.885	4.475	1.315	15.988	29.483	17.4	21.536	82.6
369.06	18.0	3.0	8.0	46.132	4.043	11.41	13.849	26.65	1.183	22.53	33.403	11.049	5.544	1.993	3.651	30.091	65.1	3.162	34.9
369.06	18.0	4.0	8.0	46.132	4.043	11.41	15.798	23.361	0.965	24.208	35.97	10.26	5.464	1.878	4.343	31.041	57.1	4.317	42.9
369.06	18.0	5.0	8.0	46.132	4.043	11.41	17.748	20.795	0.809	25.699	38.202	9.661	5.371	1.799	5.035	31.477	50.6	5.461	49.4
369.06	18.0	6.0	8.0	46.132	4.043	11.41	19.697	18.737	0.692	27.063	40.252	9.169	5.276	1.738	5.732	31.631	45.4	6.592	54.6
369.06	18.0	7.0	8.0	46.132	4.043	11.41	21.647	17.049	0.602	28.33	42.196	8.746	5.185	1.687	6.436	31.622	41.0	7.712	59.0
369.06	18.0	8.0	8.0	46.132	4.043	11.41	23.596	15.641	0.53	29.524	44.076	8.373	5.097	1.643	7.148	31.515	37.3	8.821	62.7
369.06	18.0	9.0	8.0	46.132	4.043	11.41	25.546	14.447	0.471	30.656	45.917	8.037	5.015	1.603	7.87	31.349	34.1	9.921	65.9
369.06	18.0	10.0	8.0	46.132	4.043	11.41	27.495	13.423	0.423	31.738	47.735	7.731	4.937	1.566	8.601	31.146	31.4	11.013	68.6
369.06	18.0	11.0	8.0	46.132	4.043	11.41	29.445	12.534	0.382	32.777	49.539	7.45	4.864	1.532	9.341	30.922	29.1	12.098	70.9
369.06	18.0	12.0	8.0	46.132	4.043	11.41	31.394	11.756	0.348	33.778	51.335	7.189	4.795	1.499	10.09	30.686	27.1	13.176	72.9

369.06	18.0	13.0	8.0	46.132	4.043	11.41	33.344	11.068	0.319	34.746	53.127	6.947	4.731	1.468	10.849	30.444	25.3	14.249	74.7
369.06	18.0	14.0	8.0	46.132	4.043	11.41	35.293	10.457	0.293	35.683	54.918	6.72	4.67	1.439	11.616	30.2	23.7	15.317	76.3
369.06	18.0	15.0	8.0	46.132	4.043	11.41	37.243	9.91	0.271	36.594	56.71	6.508	4.612	1.411	12.393	29.957	22.2	16.381	77.8
369.06	18.0	16.0	8.0	46.132	4.043	11.41	39.192	9.417	0.251	37.48	58.504	6.308	4.558	1.384	13.178	29.717	21.0	17.44	79.0
369.06	18.0	17.0	8.0	46.132	4.043	11.41	41.142	8.97	0.234	38.344	60.3	6.12	4.507	1.358	13.971	29.482	19.8	18.497	80.2
369.06	18.0	18.0	8.0	46.132	4.043	11.41	43.091	8.565	0.219	39.188	62.1	5.943	4.458	1.333	14.772	29.251	18.8	19.55	81.2
369.06	18.0	19.0	8.0	46.132	4.043	11.41	45.041	8.194	0.205	40.012	63.903	5.775	4.411	1.309	15.582	29.025	17.8	20.6	82.2
369.06	18.0	20.0	8.0	46.132	4.043	11.41	46.99	7.854	0.192	40.819	65.709	5.617	4.367	1.286	16.399	28.806	16.9	21.647	83.1
369.06	19.0	3.0	8.0	46.132	4.043	11.41	14.198	25.994	1.151	22.575	34.808	10.603	5.489	1.932	3.707	29.928	64.4	3.228	35.6
369.06	19.0	4.0	8.0	46.132	4.043	11.41	16.264	22.692	0.936	24.247	37.46	9.852	5.397	1.826	4.417	30.779	56.3	4.394	43.7
369.06	19.0	5.0	8.0	46.132	4.043	11.41	18.33	20.134	0.782	25.733	39.773	9.279	5.295	1.752	5.127	31.137	49.9	5.545	50.1
369.06	19.0	6.0	8.0	46.132	4.043	11.41	20.396	18.095	0.668	27.092	41.903	8.807	5.194	1.696	5.842	31.231	44.6	6.682	55.4
369.06	19.0	7.0	8.0	46.132	4.043	11.41	22.462	16.43	0.579	28.356	43.93	8.401	5.097	1.648	6.565	31.174	40.3	7.806	59.7
369.06	19.0	8.0	8.0	46.132	4.043	11.41	24.528	15.047	0.509	29.546	45.897	8.041	5.006	1.606	7.296	31.03	36.6	8.918	63.4
369.06	19.0	9.0	8.0	46.132	4.043	11.41	26.594	13.878	0.452	30.676	47.827	7.717	4.921	1.568	8.037	30.833	33.5	10.02	66.5
369.06	19.0	10.0	8.0	46.132	4.043	11.41	28.66	12.877	0.406	31.756	49.736	7.42	4.841	1.533	8.788	30.606	30.8	11.114	69.2
369.06	19.0	11.0	8.0	46.132	4.043	11.41	30.726	12.011	0.366	32.793	51.634	7.148	4.766	1.5	9.549	30.361	28.5	12.2	71.5
369.06	19.0	12.0	8.0	46.132	4.043	11.41	32.792	11.255	0.333	33.792	53.526	6.895	4.697	1.468	10.319	30.109	26.5	13.279	73.5
369.06	19.0	13.0	8.0	46.132	4.043	11.41	34.858	10.588	0.305	34.758	55.416	6.66	4.631	1.438	11.098	29.853	24.7	14.352	75.3
369.06	19.0	14.0	8.0	46.132	4.043	11.41	36.924	9.995	0.28	35.695	57.306	6.44	4.57	1.409	11.887	29.598	23.1	15.421	76.9
369.06	19.0	15.0	8.0	46.132	4.043	11.41	38.989	9.466	0.259	36.605	59.198	6.234	4.512	1.382	12.685	29.346	21.7	16.485	78.3
369.06	19.0	16.0	8.0	46.132	4.043	11.41	41.055	8.989	0.24	37.49	61.094	6.041	4.457	1.355	13.492	29.098	20.5	17.545	79.5
369.06	19.0	17.0	8.0	46.132	4.043	11.41	43.121	8.559	0.223	38.354	62.993	5.859	4.405	1.33	14.308	28.856	19.4	18.601	80.6
369.06	19.0	18.0	8.0	46.132	4.043	11.41	45.187	8.167	0.208	39.196	64.896	5.687	4.356	1.305	15.132	28.62	18.3	19.654	81.7

369.06	19.0	19.0	8.0	46.132	4.043	11.41	47.253	7.81	0.195	40.02	66.804	5.524	4.31	1.282	15.965	28.39	17.4	20.704	82.6
369.06	19.0	20.0	8.0	46.132	4.043	11.41	49.319	7.483	0.183	40.826	68.716	5.371	4.265	1.259	16.805	28.166	16.5	21.752	83.5
369.06	20.0	3.0	8.0	46.132	4.043	11.41	14.551	25.362	1.121	22.617	36.216	10.19	5.435	1.875	3.764	29.762	63.7	3.292	36.3
369.06	20.0	4.0	8.0	46.132	4.043	11.41	16.735	22.053	0.908	24.283	38.951	9.475	5.331	1.777	4.491	30.518	55.6	4.468	44.4
369.06	20.0	5.0	8.0	46.132	4.043	11.41	18.919	19.507	0.757	25.764	41.342	8.927	5.221	1.71	5.218	30.804	49.1	5.627	50.9
369.06	20.0	6.0	8.0	46.132	4.043	11.41	21.103	17.488	0.645	27.119	43.553	8.474	5.115	1.657	5.951	30.841	43.9	6.769	56.1
369.06	20.0	7.0	8.0	46.132	4.043	11.41	23.287	15.848	0.558	28.38	45.664	8.082	5.014	1.612	6.693	30.741	39.6	7.896	60.4
369.06	20.0	8.0	8.0	46.132	4.043	11.41	25.471	14.49	0.49	29.567	47.717	7.734	4.919	1.572	7.443	30.561	35.9	9.011	64.1
369.06	20.0	9.0	8.0	46.132	4.043	11.41	27.654	13.345	0.435	30.695	49.738	7.42	4.831	1.536	8.204	30.337	32.9	10.115	67.1
369.06	20.0	10.0	8.0	46.132	4.043	11.41	29.838	12.369	0.389	31.773	51.74	7.133	4.75	1.502	8.974	30.087	30.2	11.21	69.8
369.06	20.0	11.0	8.0	46.132	4.043	11.41	32.022	11.525	0.351	32.808	53.733	6.868	4.674	1.47	9.755	29.825	27.9	12.297	72.1
369.06	20.0	12.0	8.0	46.132	4.043	11.41	34.206	10.789	0.319	33.806	55.722	6.623	4.603	1.439	10.545	29.557	26.0	13.377	74.0
369.06	20.0	13.0	8.0	46.132	4.043	11.41	36.39	10.142	0.292	34.77	57.71	6.395	4.536	1.41	11.346	29.289	24.2	14.451	75.8
369.06	20.0	14.0	8.0	46.132	4.043	11.41	38.573	9.568	0.268	35.706	59.701	6.182	4.474	1.382	12.156	29.024	22.7	15.519	77.3
369.06	20.0	15.0	8.0	46.132	4.043	11.41	40.757	9.055	0.247	36.615	61.696	5.982	4.416	1.355	12.975	28.764	21.3	16.583	78.7
369.06	20.0	16.0	8.0	46.132	4.043	11.41	42.941	8.594	0.229	37.499	63.694	5.794	4.361	1.329	13.804	28.51	20.0	17.643	80.0
369.06	20.0	17.0	8.0	46.132	4.043	11.41	45.125	8.179	0.213	38.362	65.698	5.617	4.309	1.304	14.641	28.262	18.9	18.7	81.1
369.06	20.0	18.0	8.0	46.132	4.043	11.41	47.309	7.801	0.199	39.204	67.707	5.451	4.26	1.28	15.488	28.021	17.9	19.753	82.1
369.06	20.0	19.0	8.0	46.132	4.043	11.41	49.493	7.457	0.186	40.027	69.721	5.293	4.214	1.256	16.343	27.788	17.0	20.803	83.0
369.06	20.0	20.0	8.0	46.132	4.043	11.41	51.676	7.142	0.175	40.833	71.74	5.144	4.169	1.234	17.206	27.562	16.2	21.85	83.8

Printing Stilling Basin Calcualtion in MKS unit.....

Q	FAngle	g_drop	Bc	q	dc	vc	B1	q1	d1	v1	B2	q2	d2	v2	Fr1	LJ	Eff	Del_E	Del_E(%)
10.45	8.0	0.91	2.44	4.29	1.23	3.48	3.21	3.26	0.49	6.69	5.91	1.77	1.88	0.94	3.057	10.0	73.5	0.73	26.5
10.45	8.0	1.22	2.44	4.29	1.23	3.48	3.47	3.02	0.42	7.21	6.35	1.65	1.91	0.86	3.561	11.0	66.3	1.03	33.7
10.45	8.0	1.52	2.44	4.29	1.23	3.48	3.72	2.81	0.37	7.69	6.74	1.55	1.92	0.81	4.058	11.0	60.2	1.34	39.8
10.45	8.0	1.83	2.44	4.29	1.23	3.48	3.98	2.63	0.32	8.12	7.09	1.47	1.93	0.76	4.553	12.0	55.0	1.66	45.0
10.45	8.0	2.13	2.44	4.29	1.23	3.48	4.24	2.47	0.29	8.52	7.42	1.41	1.93	0.73	5.049	12.0	50.5	1.97	49.5
10.45	8.0	2.44	2.44	4.29	1.23	3.48	4.5	2.33	0.26	8.89	7.72	1.35	1.93	0.7	5.548	12.0	46.7	2.29	53.3
10.45	8.0	2.74	2.44	4.29	1.23	3.48	4.75	2.2	0.24	9.25	8.02	1.3	1.92	0.68	6.05	12.0	43.3	2.61	56.7
10.45	8.0	3.05	2.44	4.29	1.23	3.48	5.01	2.09	0.22	9.59	8.3	1.26	1.91	0.66	6.556	12.0	40.3	2.92	59.7
10.45	8.0	3.35	2.44	4.29	1.23	3.48	5.27	1.99	0.2	9.91	8.57	1.22	1.9	0.64	7.066	12.0	37.7	3.24	62.3
10.45	8.0	3.66	2.44	4.29	1.23	3.48	5.52	1.89	0.19	10.22	8.84	1.18	1.9	0.62	7.581	12.0	35.3	3.56	64.7
10.45	8.0	3.96	2.44	4.29	1.23	3.48	5.78	1.81	0.17	10.52	9.1	1.15	1.89	0.61	8.101	12.0	33.2	3.88	66.8
10.45	8.0	4.27	2.44	4.29	1.23	3.48	6.04	1.73	0.16	10.81	9.36	1.12	1.88	0.6	8.625	12.0	31.4	4.2	68.6
10.45	8.0	4.57	2.44	4.29	1.23	3.48	6.3	1.66	0.15	11.1	9.62	1.09	1.86	0.58	9.154	12.0	29.7	4.52	70.3
10.45	8.0	4.88	2.44	4.29	1.23	3.48	6.55	1.6	0.14	11.37	9.88	1.06	1.85	0.57	9.688	12.0	28.1	4.84	71.9
10.45	8.0	5.18	2.44	4.29	1.23	3.48	6.81	1.54	0.13	11.64	10.13	1.03	1.84	0.56	10.226	12.0	26.7	5.15	73.3
10.45	8.0	5.49	2.44	4.29	1.23	3.48	7.07	1.48	0.12	11.9	10.38	1.01	1.83	0.55	10.77	12.0	25.4	5.47	74.6
10.45	8.0	5.79	2.44	4.29	1.23	3.48	7.32	1.43	0.12	12.15	10.63	0.98	1.82	0.54	11.317	12.0	24.3	5.79	75.7
10.45	8.0	6.1	2.44	4.29	1.23	3.48	7.58	1.38	0.11	12.4	10.88	0.96	1.81	0.53	11.869	12.0	23.2	6.1	76.8
10.45	9.0	0.91	2.44	4.29	1.23	3.48	3.31	3.16	0.47	6.71	6.34	1.65	1.86	0.89	3.119	10.0	72.5	0.76	27.5
10.45	9.0	1.22	2.44	4.29	1.23	3.48	3.6	2.91	0.4	7.24	6.83	1.53	1.88	0.82	3.644	11.0	65.2	1.07	34.8
10.45	9.0	1.52	2.44	4.29	1.23	3.48	3.89	2.69	0.35	7.71	7.25	1.44	1.89	0.76	4.162	11.0	59.0	1.38	41.0
10.45	9.0	1.83	2.44	4.29	1.23	3.48	4.18	2.5	0.31	8.14	7.63	1.37	1.89	0.73	4.68	11.0	53.8	1.7	46.2

10.45	9.0	2.13	2.44	4.29	1.23	3.48	4.47	2.34	0.27	8.53	7.99	1.31	1.89	0.69	5.2	12.0	49.3	2.02	50.7
10.45	9.0	2.44	2.44	4.29	1.23	3.48	4.76	2.2	0.25	8.91	8.32	1.26	1.88	0.67	5.722	12.0	45.4	2.34	54.6
10.45	9.0	2.74	2.44	4.29	1.23	3.48	5.05	2.07	0.22	9.26	8.64	1.21	1.87	0.65	6.249	12.0	42.1	2.66	57.9
10.45	9.0	3.05	2.44	4.29	1.23	3.48	5.34	1.96	0.2	9.6	8.95	1.17	1.86	0.63	6.781	12.0	39.1	2.98	60.9
10.45	9.0	3.35	2.44	4.29	1.23	3.48	5.63	1.86	0.19	9.92	9.25	1.13	1.85	0.61	7.317	12.0	36.5	3.3	63.5
10.45	9.0	3.66	2.44	4.29	1.23	3.48	5.92	1.77	0.17	10.23	9.55	1.09	1.84	0.6	7.859	12.0	34.2	3.62	65.8
10.45	9.0	3.96	2.44	4.29	1.23	3.48	6.21	1.69	0.16	10.53	9.84	1.06	1.82	0.58	8.406	12.0	32.1	3.95	67.9
10.45	9.0	4.27	2.44	4.29	1.23	3.48	6.5	1.61	0.15	10.83	10.13	1.03	1.81	0.57	8.958	12.0	30.3	4.27	69.7
10.45	9.0	4.57	2.44	4.29	1.23	3.48	6.79	1.54	0.14	11.11	10.41	1.0	1.8	0.56	9.516	12.0	28.6	4.59	71.4
10.45	9.0	4.88	2.44	4.29	1.23	3.48	7.07	1.48	0.13	11.38	10.7	0.98	1.79	0.55	10.079	12.0	27.1	4.9	72.9
10.45	9.0	5.18	2.44	4.29	1.23	3.48	7.36	1.42	0.12	11.65	10.98	0.95	1.78	0.54	10.647	12.0	25.7	5.22	74.3
10.45	9.0	5.49	2.44	4.29	1.23	3.48	7.65	1.37	0.11	11.91	11.26	0.93	1.76	0.53	11.22	12.0	24.5	5.54	75.5
10.45	9.0	5.79	2.44	4.29	1.23	3.48	7.94	1.32	0.11	12.16	11.54	0.91	1.75	0.52	11.798	12.0	23.3	5.86	76.7
10.45	9.0	6.1	2.44	4.29	1.23	3.48	8.23	1.27	0.1	12.41	11.82	0.88	1.74	0.51	12.38	12.0	22.3	6.18	77.7
10.45	10.0	0.91	2.44	4.29	1.23	3.48	3.41	3.07	0.46	6.73	6.77	1.55	1.84	0.84	3.181	10.0	71.6	0.78	28.4
10.45	10.0	1.22	2.44	4.29	1.23	3.48	3.73	2.8	0.39	7.26	7.3	1.43	1.85	0.77	3.726	11.0	64.2	1.1	35.8
10.45	10.0	1.52	2.44	4.29	1.23	3.48	4.05	2.58	0.33	7.72	7.75	1.35	1.86	0.73	4.265	11.0	57.9	1.42	42.1
10.45	10.0	1.83	2.44	4.29	1.23	3.48	4.37	2.39	0.29	8.15	8.17	1.28	1.85	0.69	4.805	11.0	52.6	1.74	47.4
10.45	10.0	2.13	2.44	4.29	1.23	3.48	4.7	2.23	0.26	8.55	8.55	1.22	1.84	0.66	5.347	11.0	48.1	2.07	51.9
10.45	10.0	2.44	2.44	4.29	1.23	3.48	5.02	2.08	0.23	8.92	8.91	1.17	1.83	0.64	5.893	12.0	44.3	2.39	55.7
10.45	10.0	2.74	2.44	4.29	1.23	3.48	5.34	1.96	0.21	9.28	9.26	1.13	1.82	0.62	6.444	12.0	40.9	2.71	59.1
10.45	10.0	3.05	2.44	4.29	1.23	3.48	5.66	1.85	0.19	9.61	9.6	1.09	1.81	0.6	7.0	12.0	38.0	3.04	62.0
10.45	10.0	3.35	2.44	4.29	1.23	3.48	5.99	1.75	0.18	9.93	9.93	1.05	1.79	0.59	7.562	12.0	35.4	3.36	64.6
10.45	10.0	3.66	2.44	4.29	1.23	3.48	6.31	1.66	0.16	10.24	10.25	1.02	1.78	0.57	8.129	12.0	33.1	3.68	66.9

10.45	10.0	3.96	2.44	4.29	1.23	3.48	6.63	1.58	0.15	10.54	10.57	0.99	1.77	0.56	8.702	12.0	31.1	4.0	68.9
10.45	10.0	4.27	2.44	4.29	1.23	3.48	6.95	1.5	0.14	10.83	10.88	0.96	1.75	0.55	9.281	12.0	29.3	4.33	70.7
10.45	10.0	4.57	2.44	4.29	1.23	3.48	7.28	1.44	0.13	11.12	11.2	0.93	1.74	0.54	9.866	12.0	27.6	4.65	72.4
10.45	10.0	4.88	2.44	4.29	1.23	3.48	7.6	1.38	0.12	11.39	11.51	0.91	1.73	0.53	10.457	12.0	26.2	4.97	73.8
10.45	10.0	5.18	2.44	4.29	1.23	3.48	7.92	1.32	0.11	11.66	11.82	0.88	1.71	0.52	11.053	12.0	24.8	5.29	75.2
10.45	10.0	5.49	2.44	4.29	1.23	3.48	8.24	1.27	0.11	11.91	12.13	0.86	1.7	0.51	11.654	12.0	23.6	5.61	76.4
10.45	10.0	5.79	2.44	4.29	1.23	3.48	8.57	1.22	0.1	12.17	12.44	0.84	1.69	0.5	12.262	11.0	22.5	5.93	77.5
10.45	10.0	6.1	2.44	4.29	1.23	3.48	8.89	1.18	0.09	12.42	12.74	0.82	1.68	0.49	12.874	11.0	21.4	6.24	78.6
10.45	11.0	0.91	2.44	4.29	1.23	3.48	3.51	2.98	0.44	6.75	7.19	1.45	1.82	0.8	3.242	10.0	70.7	0.81	29.3
10.45	11.0	1.22	2.44	4.29	1.23	3.48	3.86	2.71	0.37	7.28	7.76	1.35	1.83	0.74	3.806	11.0	63.2	1.13	36.8
10.45	11.0	1.52	2.44	4.29	1.23	3.48	4.22	2.48	0.32	7.74	8.25	1.27	1.82	0.69	4.366	11.0	56.9	1.46	43.1
10.45	11.0	1.83	2.44	4.29	1.23	3.48	4.57	2.29	0.28	8.17	8.69	1.2	1.82	0.66	4.927	11.0	51.6	1.78	48.4
10.45	11.0	2.13	2.44	4.29	1.23	3.48	4.93	2.12	0.25	8.56	9.1	1.15	1.8	0.64	5.491	11.0	47.1	2.11	52.9
10.45	11.0	2.44	2.44	4.29	1.23	3.48	5.28	1.98	0.22	8.94	9.49	1.1	1.79	0.62	6.059	11.0	43.2	2.44	56.8
10.45	11.0	2.74	2.44	4.29	1.23	3.48	5.64	1.85	0.2	9.29	9.87	1.06	1.78	0.6	6.633	11.0	39.9	2.76	60.1
10.45	11.0	3.05	2.44	4.29	1.23	3.48	5.99	1.74	0.18	9.62	10.23	1.02	1.76	0.58	7.213	11.0	37.0	3.09	63.0
10.45	11.0	3.35	2.44	4.29	1.23	3.48	6.35	1.65	0.17	9.94	10.59	0.99	1.75	0.57	7.799	11.0	34.4	3.41	65.6
10.45	11.0	3.66	2.44	4.29	1.23	3.48	6.71	1.56	0.15	10.25	10.94	0.96	1.73	0.55	8.392	11.0	32.2	3.74	67.8
10.45	11.0	3.96	2.44	4.29	1.23	3.48	7.06	1.48	0.14	10.55	11.29	0.93	1.72	0.54	8.991	11.0	30.2	4.06	69.8
10.45	11.0	4.27	2.44	4.29	1.23	3.48	7.42	1.41	0.13	10.84	11.63	0.9	1.7	0.53	9.595	11.0	28.4	4.38	71.6
10.45	11.0	4.57	2.44	4.29	1.23	3.48	7.77	1.35	0.12	11.12	11.97	0.87	1.69	0.52	10.207	11.0	26.8	4.7	73.2
10.45	11.0	4.88	2.44	4.29	1.23	3.48	8.13	1.29	0.11	11.4	12.31	0.85	1.67	0.51	10.824	11.0	25.3	5.02	74.7
10.45	11.0	5.18	2.44	4.29	1.23	3.48	8.48	1.23	0.11	11.66	12.65	0.83	1.66	0.5	11.447	11.0	24.0	5.34	76.0
10.45	11.0	5.49	2.44	4.29	1.23	3.48	8.84	1.18	0.1	11.92	12.99	0.81	1.65	0.49	12.076	11.0	22.8	5.66	77.2

10.45	11.0	5.79	2.44	4.29	1.23	3.48	9.19	1.14	0.09	12.17	13.33	0.78	1.63	0.48	12.711	11.0	21.7	5.98	78.3
10.45	11.0	6.1	2.44	4.29	1.23	3.48	9.55	1.09	0.09	12.42	13.66	0.77	1.62	0.47	13.352	11.0	20.7	6.3	79.3
10.45	12.0	0.91	2.44	4.29	1.23	3.48	3.61	2.9	0.43	6.77	7.62	1.37	1.8	0.76	3.302	10.0	69.8	0.83	30.2
10.45	12.0	1.22	2.44	4.29	1.23	3.48	3.99	2.62	0.36	7.29	8.22	1.27	1.8	0.71	3.885	10.0	62.2	1.16	37.8
10.45	12.0	1.52	2.44	4.29	1.23	3.48	4.38	2.39	0.31	7.76	8.74	1.2	1.79	0.67	4.465	11.0	55.9	1.49	44.1
10.45	12.0	1.83	2.44	4.29	1.23	3.48	4.77	2.19	0.27	8.18	9.21	1.13	1.78	0.64	5.046	11.0	50.5	1.82	49.5
10.45	12.0	2.13	2.44	4.29	1.23	3.48	5.16	2.03	0.24	8.58	9.65	1.08	1.77	0.61	5.632	11.0	46.1	2.15	53.9
10.45	12.0	2.44	2.44	4.29	1.23	3.48	5.55	1.88	0.21	8.95	10.07	1.04	1.75	0.59	6.222	11.0	42.2	2.48	57.8
10.45	12.0	2.74	2.44	4.29	1.23	3.48	5.94	1.76	0.19	9.3	10.47	1.0	1.73	0.58	6.819	11.0	38.9	2.81	61.1
10.45	12.0	3.05	2.44	4.29	1.23	3.48	6.33	1.65	0.17	9.63	10.86	0.96	1.72	0.56	7.422	11.0	36.0	3.13	64.0
10.45	12.0	3.35	2.44	4.29	1.23	3.48	6.72	1.56	0.16	9.95	11.25	0.93	1.7	0.55	8.032	11.0	33.5	3.46	66.5
10.45	12.0	3.66	2.44	4.29	1.23	3.48	7.1	1.47	0.14	10.26	11.62	0.9	1.68	0.53	8.648	11.0	31.3	3.78	68.7
10.45	12.0	3.96	2.44	4.29	1.23	3.48	7.49	1.4	0.13	10.56	12.0	0.87	1.67	0.52	9.272	11.0	29.3	4.11	70.7
10.45	12.0	4.27	2.44	4.29	1.23	3.48	7.88	1.33	0.12	10.85	12.37	0.85	1.65	0.51	9.902	11.0	27.5	4.43	72.5
10.45	12.0	4.57	2.44	4.29	1.23	3.48	8.27	1.26	0.11	11.13	12.74	0.82	1.64	0.5	10.538	11.0	26.0	4.75	74.0
10.45	12.0	4.88	2.44	4.29	1.23	3.48	8.66	1.21	0.11	11.4	13.11	0.8	1.62	0.49	11.181	11.0	24.5	5.08	75.5
10.45	12.0	5.18	2.44	4.29	1.23	3.48	9.05	1.16	0.1	11.67	13.48	0.78	1.61	0.48	11.831	11.0	23.3	5.4	76.7
10.45	12.0	5.49	2.44	4.29	1.23	3.48	9.44	1.11	0.09	11.93	13.84	0.76	1.6	0.47	12.487	11.0	22.1	5.72	77.9
10.45	12.0	5.79	2.44	4.29	1.23	3.48	9.83	1.06	0.09	12.18	14.21	0.74	1.58	0.47	13.149	11.0	21.0	6.04	79.0
10.45	12.0	6.1	2.44	4.29	1.23	3.48	10.22	1.02	0.08	12.43	14.58	0.72	1.57	0.46	13.817	11.0	20.0	6.36	80.0
10.45	13.0	0.91	2.44	4.29	1.23	3.48	3.71	2.82	0.42	6.79	8.05	1.3	1.78	0.73	3.361	10.0	69.0	0.86	31.0
10.45	13.0	1.22	2.44	4.29	1.23	3.48	4.13	2.53	0.35	7.31	8.69	1.2	1.78	0.68	3.964	10.0	61.3	1.19	38.7
10.45	13.0	1.52	2.44	4.29	1.23	3.48	4.55	2.3	0.3	7.77	9.23	1.13	1.77	0.64	4.563	11.0	54.9	1.52	45.1
10.45	13.0	1.83	2.44	4.29	1.23	3.48	4.97	2.1	0.26	8.2	9.73	1.07	1.75	0.61	5.164	11.0	49.6	1.85	50.4

10.45	13.0	2.13	2.44	4.29	1.23	3.48	5.4	1.94	0.23	8.59	10.2	1.03	1.73	0.59	5.77	11.0	45.1	2.19	54.9
10.45	13.0	2.44	2.44	4.29	1.23	3.48	5.82	1.8	0.2	8.96	10.64	0.98	1.71	0.57	6.382	11.0	41.3	2.52	58.7
10.45	13.0	2.74	2.44	4.29	1.23	3.48	6.24	1.68	0.18	9.31	11.07	0.94	1.7	0.56	7.001	11.0	38.0	2.85	62.0
10.45	13.0	3.05	2.44	4.29	1.23	3.48	6.66	1.57	0.16	9.64	11.48	0.91	1.68	0.54	7.627	11.0	35.1	3.18	64.9
10.45	13.0	3.35	2.44	4.29	1.23	3.48	7.08	1.48	0.15	9.96	11.9	0.88	1.66	0.53	8.259	11.0	32.7	3.5	67.3
10.45	13.0	3.66	2.44	4.29	1.23	3.48	7.51	1.39	0.14	10.27	12.3	0.85	1.64	0.52	8.899	11.0	30.5	3.83	69.5
10.45	13.0	3.96	2.44	4.29	1.23	3.48	7.93	1.32	0.12	10.57	12.71	0.82	1.62	0.51	9.546	11.0	28.5	4.15	71.5
10.45	13.0	4.27	2.44	4.29	1.23	3.48	8.35	1.25	0.12	10.86	13.11	0.8	1.61	0.5	10.201	11.0	26.8	4.48	73.2
10.45	13.0	4.57	2.44	4.29	1.23	3.48	8.77	1.19	0.11	11.14	13.5	0.77	1.59	0.49	10.862	11.0	25.2	4.8	74.8
10.45	13.0	4.88	2.44	4.29	1.23	3.48	9.2	1.14	0.1	11.41	13.9	0.75	1.58	0.48	11.53	11.0	23.8	5.12	76.2
10.45	13.0	5.18	2.44	4.29	1.23	3.48	9.62	1.09	0.09	11.67	14.3	0.73	1.56	0.47	12.205	11.0	22.6	5.45	77.4
10.45	13.0	5.49	2.44	4.29	1.23	3.48	10.04	1.04	0.09	11.93	14.69	0.71	1.55	0.46	12.887	11.0	21.4	5.77	78.6
10.45	13.0	5.79	2.44	4.29	1.23	3.48	10.46	1.0	0.08	12.18	15.09	0.69	1.53	0.45	13.575	11.0	20.4	6.09	79.6
10.45	13.0	6.1	2.44	4.29	1.23	3.48	10.89	0.96	0.08	12.43	15.49	0.68	1.52	0.44	14.269	10.0	19.4	6.4	80.6
10.45	14.0	0.91	2.44	4.29	1.23	3.48	3.81	2.75	0.4	6.81	8.48	1.23	1.76	0.7	3.42	10.0	68.2	0.88	31.8
10.45	14.0	1.22	2.44	4.29	1.23	3.48	4.26	2.45	0.33	7.33	9.14	1.14	1.75	0.65	4.041	10.0	60.4	1.22	39.6
10.45	14.0	1.52	2.44	4.29	1.23	3.48	4.72	2.22	0.28	7.79	9.72	1.08	1.74	0.62	4.659	11.0	54.0	1.55	46.0
10.45	14.0	1.83	2.44	4.29	1.23	3.48	5.18	2.02	0.25	8.21	10.24	1.02	1.72	0.59	5.281	11.0	48.7	1.89	51.3
10.45	14.0	2.13	2.44	4.29	1.23	3.48	5.63	1.86	0.22	8.6	10.73	0.97	1.7	0.57	5.907	11.0	44.2	2.22	55.8
10.45	14.0	2.44	2.44	4.29	1.23	3.48	6.09	1.72	0.19	8.97	11.2	0.93	1.68	0.56	6.54	11.0	40.4	2.56	59.6
10.45	14.0	2.74	2.44	4.29	1.23	3.48	6.54	1.6	0.17	9.32	11.66	0.9	1.66	0.54	7.18	11.0	37.1	2.89	62.9
10.45	14.0	3.05	2.44	4.29	1.23	3.48	7.0	1.49	0.15	9.65	12.1	0.86	1.64	0.53	7.827	11.0	34.3	3.22	65.7
10.45	14.0	3.35	2.44	4.29	1.23	3.48	7.46	1.4	0.14	9.97	12.54	0.83	1.62	0.51	8.482	11.0	31.9	3.55	68.1
10.45	14.0	3.66	2.44	4.29	1.23	3.48	7.91	1.32	0.13	10.28	12.98	0.81	1.6	0.5	9.145	11.0	29.7	3.87	70.3

10.45	14.0	3.96	2.44	4.29	1.23	3.48	8.37	1.25	0.12	10.57	13.41	0.78	1.58	0.49	9.816	11.0	27.8	4.2	72.2
10.45	14.0	4.27	2.44	4.29	1.23	3.48	8.82	1.19	0.11	10.86	13.84	0.76	1.57	0.48	10.494	11.0	26.1	4.52	73.9
10.45	14.0	4.57	2.44	4.29	1.23	3.48	9.28	1.13	0.1	11.14	14.26	0.73	1.55	0.47	11.179	10.0	24.5	4.85	75.5
10.45	14.0	4.88	2.44	4.29	1.23	3.48	9.74	1.07	0.09	11.41	14.69	0.71	1.53	0.46	11.872	10.0	23.2	5.17	76.8
10.45	14.0	5.18	2.44	4.29	1.23	3.48	10.19	1.03	0.09	11.68	15.12	0.69	1.52	0.46	12.571	10.0	21.9	5.49	78.1
10.45	14.0	5.49	2.44	4.29	1.23	3.48	10.65	0.98	0.08	11.93	15.54	0.67	1.5	0.45	13.278	10.0	20.8	5.81	79.2
10.45	14.0	5.79	2.44	4.29	1.23	3.48	11.1	0.94	0.08	12.19	15.97	0.65	1.49	0.44	13.992	10.0	19.8	6.13	80.2
10.45	14.0	6.1	2.44	4.29	1.23	3.48	11.56	0.9	0.07	12.43	16.4	0.64	1.48	0.43	14.712	10.0	18.8	6.45	81.2
10.45	15.0	0.91	2.44	4.29	1.23	3.48	3.91	2.67	0.39	6.82	8.9	1.17	1.74	0.67	3.478	10.0	67.4	0.9	32.6
10.45	15.0	1.22	2.44	4.29	1.23	3.48	4.4	2.38	0.32	7.34	9.6	1.09	1.73	0.63	4.117	10.0	59.5	1.24	40.5
10.45	15.0	1.52	2.44	4.29	1.23	3.48	4.89	2.14	0.27	7.8	10.21	1.02	1.71	0.6	4.755	10.0	53.1	1.58	46.9
10.45	15.0	1.83	2.44	4.29	1.23	3.48	5.38	1.94	0.24	8.22	10.75	0.97	1.69	0.58	5.395	11.0	47.8	1.92	52.2
10.45	15.0	2.13	2.44	4.29	1.23	3.48	5.87	1.78	0.21	8.61	11.27	0.93	1.67	0.56	6.042	11.0	43.3	2.26	56.7
10.45	15.0	2.44	2.44	4.29	1.23	3.48	6.36	1.64	0.18	8.98	11.77	0.89	1.65	0.54	6.695	11.0	39.6	2.59	60.4
10.45	15.0	2.74	2.44	4.29	1.23	3.48	6.85	1.53	0.16	9.33	12.25	0.85	1.62	0.53	7.356	11.0	36.3	2.92	63.7
10.45	15.0	3.05	2.44	4.29	1.23	3.48	7.34	1.42	0.15	9.66	12.72	0.82	1.6	0.51	8.025	11.0	33.5	3.26	66.5
10.45	15.0	3.35	2.44	4.29	1.23	3.48	7.83	1.34	0.13	9.98	13.19	0.79	1.58	0.5	8.702	10.0	31.1	3.58	68.9
10.45	15.0	3.66	2.44	4.29	1.23	3.48	8.32	1.26	0.12	10.28	13.65	0.77	1.56	0.49	9.387	10.0	29.0	3.91	71.0
10.45	15.0	3.96	2.44	4.29	1.23	3.48	8.81	1.19	0.11	10.58	14.11	0.74	1.54	0.48	10.08	10.0	27.1	4.24	72.9
10.45	15.0	4.27	2.44	4.29	1.23	3.48	9.3	1.12	0.1	10.87	14.56	0.72	1.53	0.47	10.781	10.0	25.4	4.56	74.6
10.45	15.0	4.57	2.44	4.29	1.23	3.48	9.79	1.07	0.1	11.15	15.02	0.7	1.51	0.46	11.49	10.0	23.9	4.89	76.1
10.45	15.0	4.88	2.44	4.29	1.23	3.48	10.28	1.02	0.09	11.42	15.48	0.68	1.49	0.45	12.206	10.0	22.6	5.21	77.4
10.45	15.0	5.18	2.44	4.29	1.23	3.48	10.77	0.97	0.08	11.68	15.93	0.66	1.48	0.44	12.93	10.0	21.3	5.53	78.7
10.45	15.0	5.49	2.44	4.29	1.23	3.48	11.26	0.93	0.08	11.94	16.39	0.64	1.46	0.44	13.661	10.0	20.2	5.85	79.8

10.45	15.0	5.79	2.44	4.29	1.23	3.48	11.75	0.89	0.07	12.19	16.85	0.62	1.45	0.43	14.4	10.0	19.2	6.17	80.8
10.45	15.0	6.1	2.44	4.29	1.23	3.48	12.24	0.85	0.07	12.44	17.3	0.6	1.44	0.42	15.145	10.0	18.3	6.49	81.7
10.45	16.0	0.91	2.44	4.29	1.23	3.48	4.01	2.61	0.38	6.84	9.33	1.12	1.72	0.65	3.536	10.0	66.6	0.92	33.4
10.45	16.0	1.22	2.44	4.29	1.23	3.48	4.54	2.3	0.31	7.35	10.06	1.04	1.71	0.61	4.193	10.0	58.7	1.27	41.3
10.45	16.0	1.52	2.44	4.29	1.23	3.48	5.06	2.07	0.26	7.81	10.69	0.98	1.69	0.58	4.849	10.0	52.2	1.61	47.8
10.45	16.0	1.83	2.44	4.29	1.23	3.48	5.59	1.87	0.23	8.23	11.26	0.93	1.66	0.56	5.508	10.0	46.9	1.95	53.1
10.45	16.0	2.13	2.44	4.29	1.23	3.48	6.11	1.71	0.2	8.62	11.8	0.89	1.64	0.54	6.174	10.0	42.5	2.29	57.5
10.45	16.0	2.44	2.44	4.29	1.23	3.48	6.64	1.58	0.18	8.99	12.32	0.85	1.61	0.53	6.848	10.0	38.8	2.63	61.2
10.45	16.0	2.74	2.44	4.29	1.23	3.48	7.16	1.46	0.16	9.33	12.83	0.81	1.59	0.51	7.529	10.0	35.6	2.96	64.4
10.45	16.0	3.05	2.44	4.29	1.23	3.48	7.68	1.36	0.14	9.66	13.33	0.78	1.57	0.5	8.219	10.0	32.8	3.29	67.2
10.45	16.0	3.35	2.44	4.29	1.23	3.48	8.21	1.27	0.13	9.98	13.83	0.76	1.55	0.49	8.918	10.0	30.4	3.62	69.6
10.45	16.0	3.66	2.44	4.29	1.23	3.48	8.73	1.2	0.12	10.29	14.32	0.73	1.53	0.48	9.625	10.0	28.3	3.95	71.7
10.45	16.0	3.96	2.44	4.29	1.23	3.48	9.26	1.13	0.11	10.58	14.8	0.71	1.51	0.47	10.34	10.0	26.4	4.28	73.6
10.45	16.0	4.27	2.44	4.29	1.23	3.48	9.78	1.07	0.1	10.87	15.29	0.68	1.49	0.46	11.064	10.0	24.8	4.6	75.2
10.45	16.0	4.57	2.44	4.29	1.23	3.48	10.31	1.01	0.09	11.15	15.78	0.66	1.47	0.45	11.795	10.0	23.3	4.92	76.7
10.45	16.0	4.88	2.44	4.29	1.23	3.48	10.83	0.97	0.08	11.42	16.26	0.64	1.46	0.44	12.535	10.0	22.0	5.25	78.0
10.45	16.0	5.18	2.44	4.29	1.23	3.48	11.36	0.92	0.08	11.68	16.75	0.62	1.44	0.43	13.283	10.0	20.8	5.57	79.2
10.45	16.0	5.49	2.44	4.29	1.23	3.48	11.88	0.88	0.07	11.94	17.24	0.61	1.43	0.43	14.038	10.0	19.7	5.89	80.3
10.45	16.0	5.79	2.44	4.29	1.23	3.48	12.41	0.84	0.07	12.19	17.72	0.59	1.41	0.42	14.8	10.0	18.7	6.21	81.3
10.45	16.0	6.1	2.44	4.29	1.23	3.48	12.93	0.81	0.06	12.44	18.21	0.57	1.4	0.41	15.57	10.0	17.8	6.53	82.2
10.45	17.0	0.91	2.44	4.29	1.23	3.48	4.12	2.54	0.37	6.85	9.76	1.07	1.71	0.63	3.594	10.0	65.9	0.94	34.1
10.45	17.0	1.22	2.44	4.29	1.23	3.48	4.68	2.24	0.3	7.37	10.51	0.99	1.69	0.59	4.268	10.0	57.9	1.29	42.1
10.45	17.0	1.52	2.44	4.29	1.23	3.48	5.24	2.0	0.26	7.82	11.17	0.94	1.66	0.56	4.942	10.0	51.4	1.64	48.6
10.45	17.0	1.83	2.44	4.29	1.23	3.48	5.79	1.8	0.22	8.24	11.77	0.89	1.63	0.54	5.621	10.0	46.1	1.98	53.9

10.45	17.0	2.13	2.44	4.29	1.23	3.48	6.35	1.65	0.19	8.63	12.33	0.85	1.61	0.53	6.306	10.0	41.7	2.32	58.3
10.45	17.0	2.44	2.44	4.29	1.23	3.48	6.91	1.51	0.17	8.99	12.88	0.81	1.58	0.51	6.999	10.0	38.0	2.66	62.0
10.45	17.0	2.74	2.44	4.29	1.23	3.48	7.47	1.4	0.15	9.34	13.42	0.78	1.56	0.5	7.701	10.0	34.8	2.99	65.2
10.45	17.0	3.05	2.44	4.29	1.23	3.48	8.03	1.3	0.13	9.67	13.94	0.75	1.54	0.49	8.411	10.0	32.1	3.33	67.9
10.45	17.0	3.35	2.44	4.29	1.23	3.48	8.59	1.22	0.12	9.99	14.46	0.72	1.51	0.48	9.131	10.0	29.7	3.66	70.3
10.45	17.0	3.66	2.44	4.29	1.23	3.48	9.15	1.14	0.11	10.29	14.98	0.7	1.49	0.47	9.859	10.0	27.7	3.98	72.3
10.45	17.0	3.96	2.44	4.29	1.23	3.48	9.71	1.08	0.1	10.59	15.5	0.67	1.47	0.46	10.596	10.0	25.8	4.31	74.2
10.45	17.0	4.27	2.44	4.29	1.23	3.48	10.27	1.02	0.09	10.88	16.02	0.65	1.46	0.45	11.342	10.0	24.2	4.64	75.8
10.45	17.0	4.57	2.44	4.29	1.23	3.48	10.83	0.97	0.09	11.15	16.53	0.63	1.44	0.44	12.096	10.0	22.8	4.96	77.2
10.45	17.0	4.88	2.44	4.29	1.23	3.48	11.39	0.92	0.08	11.42	17.05	0.61	1.42	0.43	12.859	10.0	21.5	5.28	78.5
10.45	17.0	5.18	2.44	4.29	1.23	3.48	11.95	0.88	0.08	11.69	17.57	0.6	1.41	0.42	13.629	10.0	20.3	5.61	79.7
10.45	17.0	5.49	2.44	4.29	1.23	3.48	12.51	0.84	0.07	11.94	18.08	0.58	1.39	0.42	14.408	10.0	19.2	5.93	80.8
10.45	17.0	5.79	2.44	4.29	1.23	3.48	13.06	0.8	0.07	12.2	18.6	0.56	1.38	0.41	15.194	10.0	18.3	6.25	81.7
10.45	17.0	6.1	2.44	4.29	1.23	3.48	13.62	0.77	0.06	12.44	19.12	0.55	1.36	0.4	15.988	9.0	17.4	6.57	82.6
10.45	18.0	0.91	2.44	4.29	1.23	3.48	4.22	2.48	0.36	6.87	10.18	1.03	1.69	0.61	3.651	10.0	65.1	0.96	34.9
10.45	18.0	1.22	2.44	4.29	1.23	3.48	4.82	2.17	0.29	7.38	10.97	0.95	1.67	0.57	4.343	10.0	57.1	1.32	42.9
10.45	18.0	1.52	2.44	4.29	1.23	3.48	5.41	1.93	0.25	7.84	11.65	0.9	1.64	0.55	5.035	10.0	50.6	1.66	49.4
10.45	18.0	1.83	2.44	4.29	1.23	3.48	6.01	1.74	0.21	8.25	12.27	0.85	1.61	0.53	5.732	10.0	45.4	2.01	54.6
10.45	18.0	2.13	2.44	4.29	1.23	3.48	6.6	1.58	0.18	8.64	12.86	0.81	1.58	0.51	6.436	10.0	41.0	2.35	59.0
10.45	18.0	2.44	2.44	4.29	1.23	3.48	7.19	1.45	0.16	9.0	13.44	0.78	1.55	0.5	7.148	10.0	37.3	2.69	62.7
10.45	18.0	2.74	2.44	4.29	1.23	3.48	7.79	1.34	0.14	9.35	14.0	0.75	1.53	0.49	7.87	10.0	34.1	3.02	65.9
10.45	18.0	3.05	2.44	4.29	1.23	3.48	8.38	1.25	0.13	9.68	14.55	0.72	1.51	0.48	8.601	10.0	31.4	3.36	68.6
10.45	18.0	3.35	2.44	4.29	1.23	3.48	8.98	1.16	0.12	9.99	15.1	0.69	1.48	0.47	9.341	10.0	29.1	3.69	70.9
10.45	18.0	3.66	2.44	4.29	1.23	3.48	9.57	1.09	0.11	10.3	15.65	0.67	1.46	0.46	10.09	10.0	27.1	4.02	72.9

10.45	18.0	3.96	2.44	4.29	1.23	3.48	10.17	1.03	0.1	10.59	16.2	0.65	1.44	0.45	10.849	10.0	25.3	4.34	74.7
10.45	18.0	4.27	2.44	4.29	1.23	3.48	10.76	0.97	0.09	10.88	16.74	0.62	1.42	0.44	11.616	10.0	23.7	4.67	76.3
10.45	18.0	4.57	2.44	4.29	1.23	3.48	11.35	0.92	0.08	11.16	17.29	0.6	1.41	0.43	12.393	10.0	22.2	4.99	77.8
10.45	18.0	4.88	2.44	4.29	1.23	3.48	11.95	0.88	0.08	11.43	17.84	0.59	1.39	0.42	13.178	10.0	21.0	5.32	79.0
10.45	18.0	5.18	2.44	4.29	1.23	3.48	12.54	0.83	0.07	11.69	18.38	0.57	1.37	0.41	13.971	9.0	19.8	5.64	80.2
10.45	18.0	5.49	2.44	4.29	1.23	3.48	13.14	0.8	0.07	11.95	18.93	0.55	1.36	0.41	14.772	9.0	18.8	5.96	81.2
10.45	18.0	5.79	2.44	4.29	1.23	3.48	13.73	0.76	0.06	12.2	19.48	0.54	1.34	0.4	15.582	9.0	17.8	6.28	82.2
10.45	18.0	6.1	2.44	4.29	1.23	3.48	14.33	0.73	0.06	12.44	20.03	0.52	1.33	0.39	16.399	9.0	16.9	6.6	83.1
10.45	19.0	0.91	2.44	4.29	1.23	3.48	4.33	2.42	0.35	6.88	10.61	0.99	1.67	0.59	3.707	10.0	64.4	0.98	35.6
10.45	19.0	1.22	2.44	4.29	1.23	3.48	4.96	2.11	0.29	7.39	11.42	0.92	1.65	0.56	4.417	10.0	56.3	1.34	43.7
10.45	19.0	1.52	2.44	4.29	1.23	3.48	5.59	1.87	0.24	7.85	12.13	0.86	1.61	0.53	5.127	10.0	49.9	1.69	50.1
10.45	19.0	1.83	2.44	4.29	1.23	3.48	6.22	1.68	0.2	8.26	12.78	0.82	1.58	0.52	5.842	10.0	44.6	2.04	55.4
10.45	19.0	2.13	2.44	4.29	1.23	3.48	6.85	1.53	0.18	8.65	13.39	0.78	1.55	0.5	6.565	10.0	40.3	2.38	59.7
10.45	19.0	2.44	2.44	4.29	1.23	3.48	7.48	1.4	0.16	9.01	13.99	0.75	1.53	0.49	7.296	10.0	36.6	2.72	63.4
10.45	19.0	2.74	2.44	4.29	1.23	3.48	8.11	1.29	0.14	9.35	14.58	0.72	1.5	0.48	8.037	10.0	33.5	3.05	66.5
10.45	19.0	3.05	2.44	4.29	1.23	3.48	8.74	1.2	0.12	9.68	15.16	0.69	1.48	0.47	8.788	10.0	30.8	3.39	69.2
10.45	19.0	3.35	2.44	4.29	1.23	3.48	9.37	1.12	0.11	10.0	15.74	0.66	1.45	0.46	9.549	10.0	28.5	3.72	71.5
10.45	19.0	3.66	2.44	4.29	1.23	3.48	10.0	1.05	0.1	10.3	16.32	0.64	1.43	0.45	10.319	10.0	26.5	4.05	73.5
10.45	19.0	3.96	2.44	4.29	1.23	3.48	10.63	0.98	0.09	10.6	16.9	0.62	1.41	0.44	11.098	10.0	24.7	4.38	75.3
10.45	19.0	4.27	2.44	4.29	1.23	3.48	11.26	0.93	0.09	10.88	17.47	0.6	1.39	0.43	11.887	10.0	23.1	4.7	76.9
10.45	19.0	4.57	2.44	4.29	1.23	3.48	11.89	0.88	0.08	11.16	18.05	0.58	1.38	0.42	12.685	9.0	21.7	5.03	78.3
10.45	19.0	4.88	2.44	4.29	1.23	3.48	12.52	0.84	0.07	11.43	18.63	0.56	1.36	0.41	13.492	9.0	20.5	5.35	79.5
10.45	19.0	5.18	2.44	4.29	1.23	3.48	13.15	0.8	0.07	11.69	19.21	0.54	1.34	0.41	14.308	9.0	19.4	5.67	80.6
10.45	19.0	5.49	2.44	4.29	1.23	3.48	13.78	0.76	0.06	11.95	19.79	0.53	1.33	0.4	15.132	9.0	18.3	5.99	81.7

10.45	19.0	5.79	2.44	4.29	1.23	3.48	14.41	0.73	0.06	12.2	20.37	0.51	1.31	0.39	15.965	9.0	17.4	6.31	82.6
10.45	19.0	6.1	2.44	4.29	1.23	3.48	15.04	0.7	0.06	12.45	20.95	0.5	1.3	0.38	16.805	9.0	16.5	6.63	83.5
10.45	20.0	0.91	2.44	4.29	1.23	3.48	4.44	2.36	0.34	6.9	11.04	0.95	1.66	0.57	3.764	10.0	63.7	1.0	36.3
10.45	20.0	1.22	2.44	4.29	1.23	3.48	5.1	2.05	0.28	7.4	11.88	0.88	1.63	0.54	4.491	10.0	55.6	1.36	44.4
10.45	20.0	1.52	2.44	4.29	1.23	3.48	5.77	1.81	0.23	7.85	12.6	0.83	1.59	0.52	5.218	10.0	49.1	1.72	50.9
10.45	20.0	1.83	2.44	4.29	1.23	3.48	6.43	1.63	0.2	8.27	13.28	0.79	1.56	0.51	5.951	10.0	43.9	2.06	56.1
10.45	20.0	2.13	2.44	4.29	1.23	3.48	7.1	1.47	0.17	8.65	13.92	0.75	1.53	0.49	6.693	10.0	39.6	2.41	60.4
10.45	20.0	2.44	2.44	4.29	1.23	3.48	7.77	1.35	0.15	9.01	14.55	0.72	1.5	0.48	7.443	10.0	35.9	2.75	64.1
10.45	20.0	2.74	2.44	4.29	1.23	3.48	8.43	1.24	0.13	9.36	15.16	0.69	1.47	0.47	8.204	10.0	32.9	3.08	67.1
10.45	20.0	3.05	2.44	4.29	1.23	3.48	9.1	1.15	0.12	9.69	15.77	0.66	1.45	0.46	8.974	10.0	30.2	3.42	69.8
10.45	20.0	3.35	2.44	4.29	1.23	3.48	9.76	1.07	0.11	10.0	16.38	0.64	1.43	0.45	9.755	10.0	27.9	3.75	72.1
10.45	20.0	3.66	2.44	4.29	1.23	3.48	10.43	1.0	0.1	10.31	16.99	0.62	1.4	0.44	10.545	10.0	26.0	4.08	74.0
10.45	20.0	3.96	2.44	4.29	1.23	3.48	11.09	0.94	0.09	10.6	17.59	0.59	1.38	0.43	11.346	9.0	24.2	4.41	75.8
10.45	20.0	4.27	2.44	4.29	1.23	3.48	11.76	0.89	0.08	10.89	18.2	0.57	1.36	0.42	12.156	9.0	22.7	4.73	77.3
10.45	20.0	4.57	2.44	4.29	1.23	3.48	12.43	0.84	0.08	11.16	18.81	0.56	1.35	0.41	12.975	9.0	21.3	5.06	78.7
10.45	20.0	4.88	2.44	4.29	1.23	3.48	13.09	0.8	0.07	11.43	19.42	0.54	1.33	0.41	13.804	9.0	20.0	5.38	80.0
10.45	20.0	5.18	2.44	4.29	1.23	3.48	13.76	0.76	0.06	11.7	20.03	0.52	1.31	0.4	14.641	9.0	18.9	5.7	81.1
10.45	20.0	5.49	2.44	4.29	1.23	3.48	14.42	0.72	0.06	11.95	20.64	0.51	1.3	0.39	15.488	9.0	17.9	6.02	82.1
10.45	20.0	5.79	2.44	4.29	1.23	3.48	15.09	0.69	0.06	12.2	21.26	0.49	1.28	0.38	16.343	9.0	17.0	6.34	83.0
10.45	20.0	6.1	2.44	4.29	1.23	3.48	15.75	0.66	0.05	12.45	21.87	0.48	1.27	0.38	17.206	9.0	16.2	6.66	83.8

Printing Basin Selection Data.....

Parmeter Name	Unit	Values
Discharge/ft	cfs/ft	46.132
Flare Angle	Degree	8.0
Glasis_Drop	Feet	4.0
Exit Velocity	Feet/sec	2.83
Fr1		3.56
Jump_Length	Feet	33.69
Energy Loss(%)	%	33.7
Floor Length	Feet	128.0
Point_1	Feet	0.0
Point_2	Feet	52.0
Point_3	Feet	76.0
Point_4	Feet	128.0

Printing Seepage Calcualtion Data.....

locations	uncorrected	mc_corr	t_corrr	corrected
Phi_E	34.34	-2.034039865457565	0.81	35.56
Phi_C1	65.66	2.034039865457565	0.81	68.51

Printing thickness calcualtion data.....

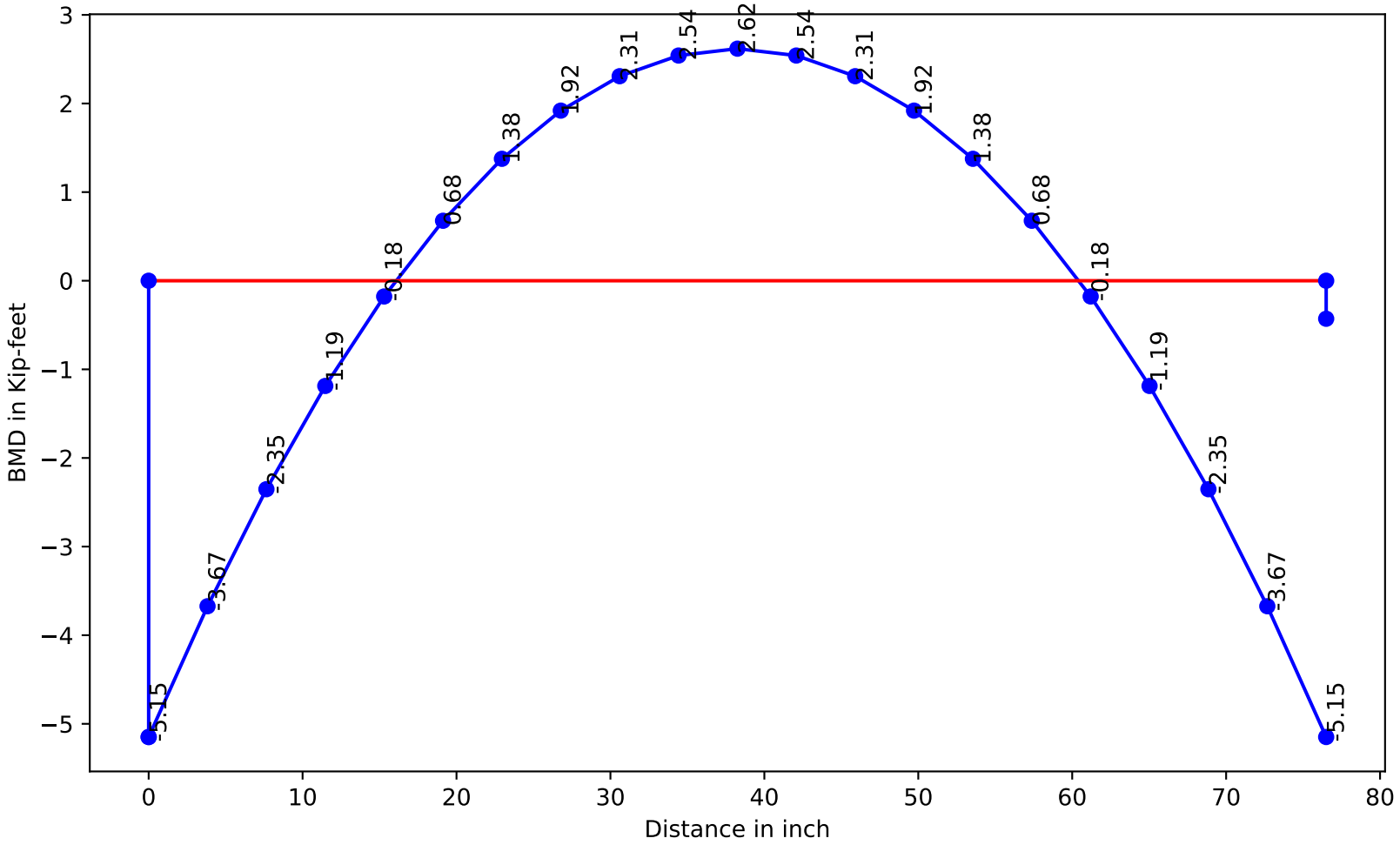
location	p(%)	p(feet)	th_min(feet)
1.0	68.51	4.11	0.0
2.0	55.12	3.31	0.0
3.0	48.95	2.94	2.1
4.0	35.56	2.13	1.52

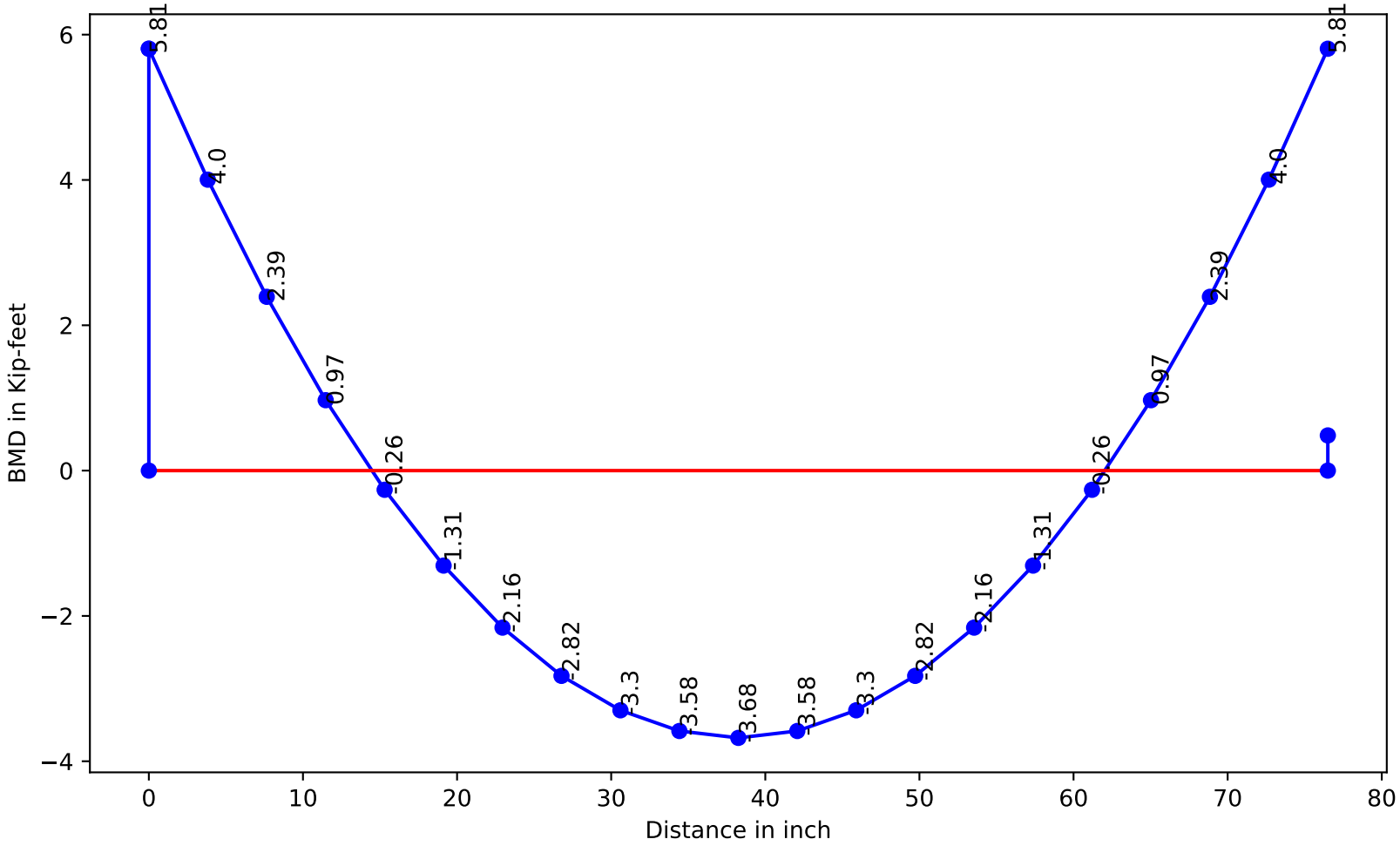
Printing Input Data for Load Calcualtions.....

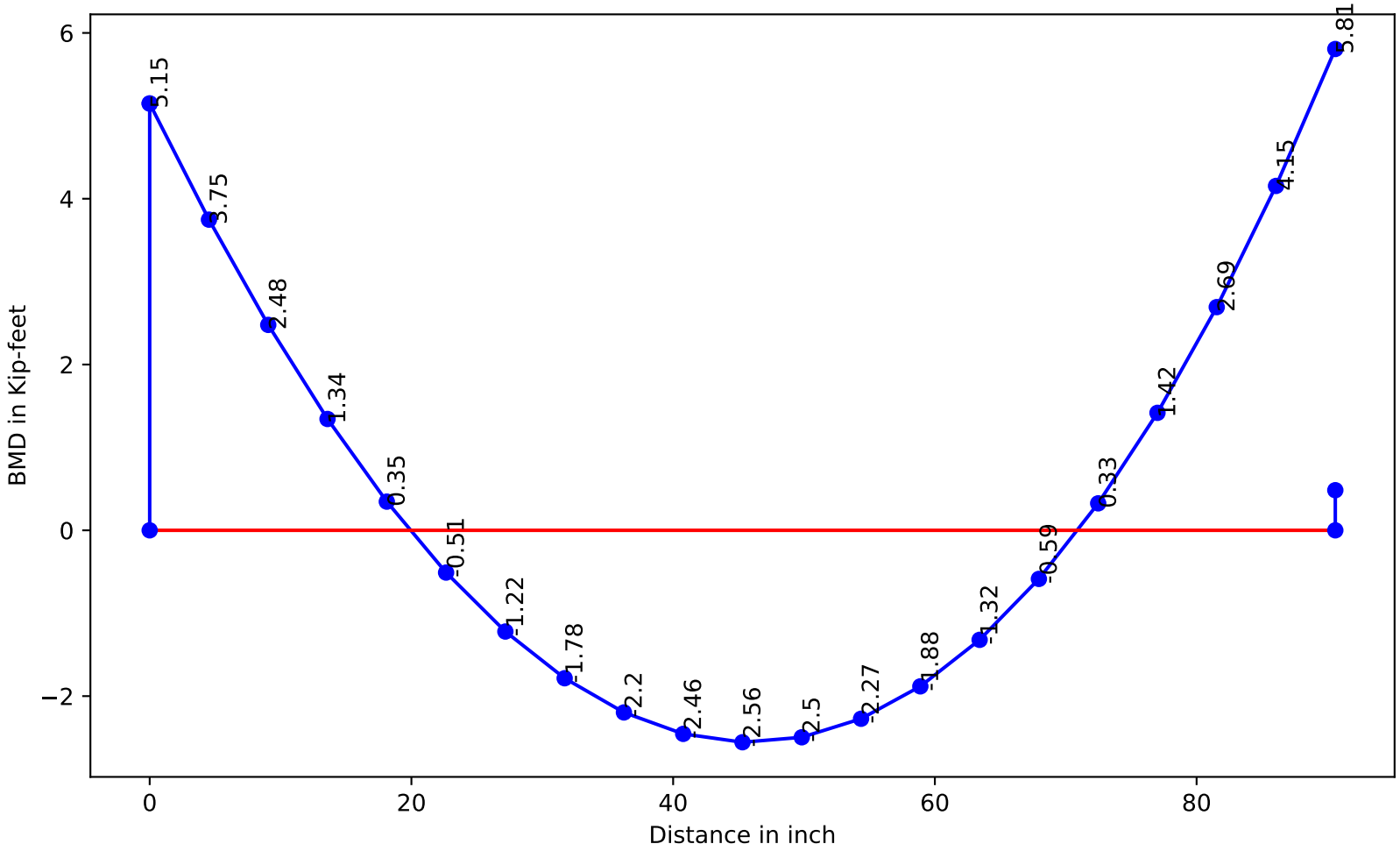
Parameter Name	Unit	Parameter Value	Detail Name
VW	feet	5.0	Vent Inner Span/width
VH	feet	6.0	Vent Height
NV	nos	1.0	No of Vents
Tt	inch	12.0	Top Slab thicjness
Ts	inch	18.0	Abutmet Thicknes
Tb	inch	26.0	Bottom Slab Thicknes
Tp	inch	15.0	Pier Thicknes
gamma_s	pcf	120.0	Soil Fill Unit Wieght
phi	degree	30.0	friction angle of back fill soil
H	feet	6.0	Height of srcharge above pier
MPF	unitless	1.2	Multiple Presnce Factor
IM	unitless	1.3	Impact factor for Dynamic Loading
INVERT_LEVEL	ft-pwd	-5.0	Invert Level of Regulator
EMBANKMENT_CREST_LEVEL	ft-pwd	13.0	Emnakment Crest Level
h_prime	ft	3.0	Additional Surcharge load above Embankemt

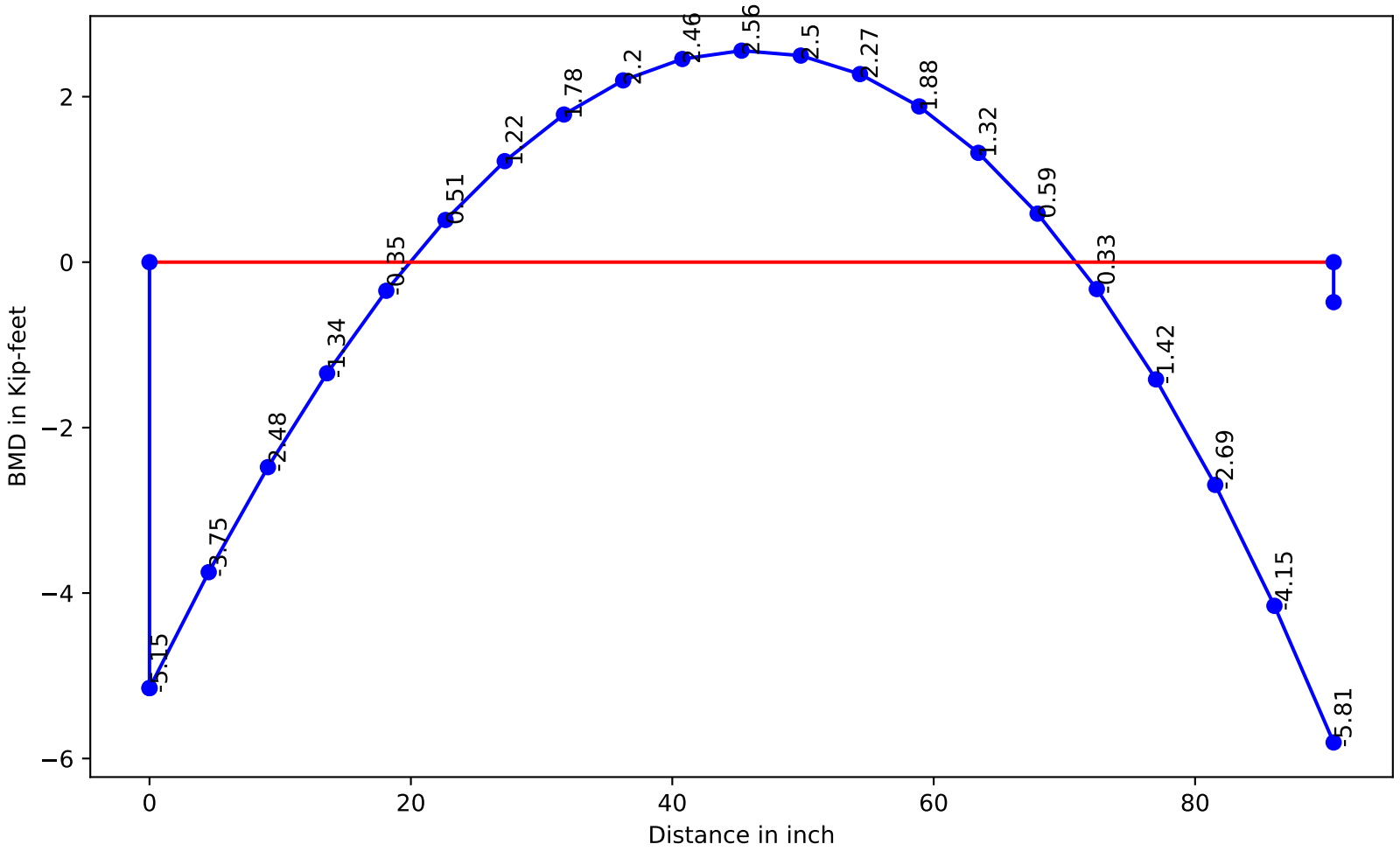
Printing Barrel Load.....

Notations	LoadName	LoadUnits	LoadType	Load_Value_Maximum	Load_Value_Minimum
TSL	Load on Top Slab	klf	UDL	-1.529	-1.529
BSL	Load on Bottom Slab	klf	UDL	1.867	1.867
SWL+	Load on Left Side Wall	klf	Trapizoidal	0.9	1.355
SWL(-)	Load on Right Side Wall	klf	Trapizoidal	-0.9	-1.355


BMD in Kip-feet
Distance in inch
3
2
1
0
−1
−2
−3
−4
−5
0
10
20
30
40
50
60
70
80
-5.15
-3.67
-2.35
-1.19
-0.18
0.68
1.38
1.92
2.31
2.54
2.62
2.54
2.31
1.92
1.38
0.68
-0.18
-1.19
-2.35
-3.67
-5.15


BMD in Kip-feet
Distance in inch
6
4
2
0
−2
−4
0
10
20
30
40
50
60
70
80
5.81
4.0
2.39
0.97
-0.26
-1.31
-2.16
-2.82
-3.3
-3.58
-3.68
-3.58
-3.3
-2.82
-2.16
-1.31
-0.26
0.97
2.39
4.0
5.81


BMD in Kip-feet
Distance in inch
6
4
2
0
−2
0
20
40
60
80
5.15
3.75
2.48
1.34
0.35
-0.51
-1.22
-1.78
-2.2
-2.46
-2.56
-2.5
-2.27
-1.88
-1.32
-0.59
0.33
1.42
2.69
4.15
5.81


BMD in Kip-feet
Distance in inch
2
0
−2
−4
−6
0
20
40
60
80
-5.15
-3.75
-2.48
-1.34
-0.35
0.51
1.22
1.78
2.2
2.46
2.56
2.5
2.27
1.88
1.32
0.59
-0.33
-1.42
-2.69
-4.15
-5.81