Table S1: Mix Design

0.4 W/B ratio									
Sl no	DESIGN MIX	Cement kg/m^3	LECA kg/m^3	GGBS kg/m^3	IBMWA kg/m^3	CA kg/m^3	FA kg/m^3	Water content kg/m^3	SP kg/m^3
1	SCC 0-0-0	450	0	0	0	907	875	180	0.067
2	SCC 0-0-10	450	0	0	87.5	809	787.5	180	0.067
3	SCC 0-0-20	450	0	0	175	710	700	180	0.067
4	SCC 0-0-30	450	0	0	262.5	611	612.5	180	0.067
5	SCC 0-10-0	405	0	45	0	865	875	180	0.067
6	SCC 0-10-10	405	0	45	87.5	766	787.5	180	0.067
7	SCC 0-10-20	405	0	45	175	667	700	180	0.067
8	SCC 0-10-30	405	0	45	262.5	569	612.5	180	0.067
9	SCC 0-20-0	360	0	90	0	822	875	180	0.067
10	SCC 0-20-10	360	0	90	87.5	724	787.5	180	0.067
11	SCC 0-20-20	360	0	90	175	625	700	180	0.067
12	SCC 0-20-30	360	0	90	262.5	526	612.5	180	0.067
13	SCC 0-30-0	315	0	135	0	780	875	180	0.067
14	SCC 0-30-10	315	0	135	87.5	681	787.5	180	0.067
15	SCC 0-30-20	315	0	135	175	582	700	180	0.067
16	SCC 0-30-30	315	0	135	262.5	484	612.5	180	0.067
17	SCC 10-0-0	450	23.17	0	0	907	875	180	0.067
18	SCC 10-0-10	450	20.65	0	87.5	809	787.5	180	0.067
19	SCC 10-0-20	450	18.13	0	175	710	700	180	0.067
20	SCC 10-0-30	450	15.61	0	262.5	611	612.5	180	0.067
21	SCC 10-10-0	405	22.12	45	0	865	875	180	0.067
22	SCC 10-10-10	405	19.6	45	87.5	766	787.5	180	0.067
23	SCC 10-10-20	405	17.08	45	175	667	700	180	0.067
24	SCC 10-10-30	405	14.56	45	262.5	569	612.5	180	0.067

25	SCC 10-20-0	360	21	90	0	822	875	180	0.067
26	SCC 10-20-10	360	18.48	90	87.5	724	787.5	180	0.067
27	SCC 10-20-0	360	15.96	90	175	625	700	180	0.067
28	SCC 10-20-30	360	13.44	90	262.5	526	612.5	180	0.067
29	SCC 10-30-0	315	19.95	135	0	780	875	180	0.067
30	SCC 10-30-10	315	17.43	135	87.5	681	787.5	180	0.067
31	SCC 10-30-20	315	14.91	135	175	582	700	180	0.067
32	SCC 10-30-30	315	12.39	135	262.5	484	612.5	180	0.067
33	SCC 20-0-0	450	46.34	0	0	907	875	180	0.067
34	SCC 20-0-10	450	41.3	0	87.5	809	787.5	180	0.067
35	SCC 20-0-20	450	36.26	0	175	710	700	180	0.067
36	SCC 20-0-30	450	31.22	0	262.5	611	612.5	180	0.067
37	SCC 20-10-0	405	44.24	45	0	865	875	180	0.067
38	SCC 20-10-10	405	39.2	45	87.5	766	787.5	180	0.067
39	SCC 20-10-20	405	34.16	45	175	667	700	180	0.067
40	SCC 20-10-30	405	29.12	45	262.5	569	612.5	180	0.067
41	SCC 20-20-0	360	42	90	0	822	875	180	0.067
42	SCC 20-20-10	360	36.96	90	87.5	724	787.5	180	0.067
43	SCC 20-20-20	360	31.92	90	175	625	700	180	0.067
44	SCC 20-20-30	360	26.88	90	262.5	526	612.5	180	0.067
45	SCC 20-30-0	315	39.9	135	0	780	875	180	0.067
46	SCC 20-30-10	315	34.86	135	87.5	681	787.5	180	0.067
47	SCC 20-30-20	315	29.82	135	175	582	700	180	0.067
48	SCC 20-30-20	315	24.78	135	262.5	484	612.5	180	0.067
49	SCC 30-0-0	450	69.51	0	0	908	875	180	0.067

50	SCC 30-0-10	450	61.95	0	87.5	809	787.5	180	0.067
51	SCC 30-0-20	450	54.39	0	175	710	700	180	0.067
52	SCC 30-0-30	450	46.83	0	262.5	612	612.5	180	0.067
53	SCC 30-10-0	405	66.36	45	0	865	875	180	0.067
54	SCC 30-10-10	405	58.8	45	87.5	766	787.5	180	0.067
55	SCC 30-10-20	405	51.24	45	175	668	700	180	0.067
56	SCC 30-10-30	405	43.68	45	262.5	569	612.5	180	0.067
57	SCC 30-20-0	360	63	90	0	823	875	180	0.067
58	SCC 30-20-10	360	55.44	90	87.5	724	787.5	180	0.067
59	SCC 30-20-20	360	47.88	90	175	625	700	180	0.067
60	SCC 30-20-30	360	40.32	90	262.5	527	612.5	180	0.067
61	SCC 30-30-0	315	59.85	135	0	780	875	180	0.067
62	0SCC 30-30-10	315	52.29	135	87.5	681	787.5	180	0.067
63	SCC 30-30-20	315	44.73	135	175	583	700	180	0.067
64	SCC 30-30-30	315	37.17	135	262.5	484	612.5	180	0.067
0.45 W/B ratio									
Sl no	DESIGN MIX	Cement kg/m^3	LECA kg/m^3	GGBS kg/m^3	IBMWA kg/m^3	CA kg/m^3	FA kg/m^3	Water content kg/m^3	SP kg/m^3
1	SCC 0-0-0	449	0	0	0	844	887.5	202	0.027
2	SCC 0-0-10	449	0	0	88.75	744	798.8	202	0.027
3	SCC 0-0-20	449	0	0	177.5	644	710	202	0.027
4	SCC 0-0-30	449	0	0	266.3	544	621.3	202	0.027
5	SCC 0-10-0	404.1	0	44.9	0	802	887.5	202	0.027
6	SCC 0-10-10	404.1	0	44.9	88.75	702	798.8	202	0.027
7	SCC 0-10-20	404.1	0	44.9	177.5	602	710	202	0.027
8	SCC 0-10-30	404.1	0	44.9	266.3	502	621.3	202	0.027
9	SCC 0-20-0	359.2	0	89.8	0	759	887.5	202	0.027

10	SCC 0-20-10	359.2	0	89.8	88.75	659	798.8	202	0.027
11	SCC 0-20-20	359.2	0	89.8	177.5	559	710	202	0.027
12	SCC 0-20-30	359.2	0	89.8	266.3	459	621.3	202	0.027
13	SCC 0-30-0	314.3	0	134.7	0	717	887.5	202	0.027
14	SCC 0-30-10	314.3	0	134.7	88.75	617	798.8	202	0.027
15	SCC 0-30-20	314.3	0	134.7	177.5	517	710	202	0.027
16	SCC 0-30-30	314.3	0	134.7	266.3	417	612.3	202	0.027
17	SCC 10-0-0	449	21.56	0	0	844	887.5	202	0.027
18	SCC 10-0-10	449	19.04	0	88.75	744	798.8	202	0.027
19	SCC 10-0-20	449	16.45	0	177.5	644	710	202	0.027
20	SCC 10-0-30	449	13.93	0	266.3	544	621.3	202	0.027
21	SCC 10-10-0	404.1	20.51	44.9	0	802	887.5	202	0.027
22	SCC 10-10-10	404.1	17.92	44.9	88.75	702	798.8	202	0.027
23	SCC 10-10-20	404.1	15.4	44.9	177.5	602	710	202	0.027
24	SCC 10-10-30	404.1	12.81	44.9	266.3	502	621.3	202	0.027
25	SCC 10-20-0	359.2	19.39	89.8	0	759	887.5	202	0.027
26	SCC 10-20-10	359.2	16.87	89.8	88.75	659	798.8	202	0.027
27	SCC 10-20-20	359.2	17.98	89.8	177.5	559	710	202	0.027
28	SCC 10-20-30	359.2	11.76	89.8	266.3	459	621.3	202	0.027
29	SCC 10-30-0	314.3	18.34	134.7	0	717	887.5	202	0.027
30	SCC 10-30-10	314.3	15.75	134.7	88.75	617	798.8	202	0.027
31	SCC 10-30-20	314.3	13.23	134.7	177.5	517	710	202	0.027
32	SCC 10-30-30	314.3	10.64	134.7	266.3	417	621.3	202	0.027
33	SCC 20-0-0	449	43.12	0	0	844	887.5	202	0.027
34	SCC 20-0-10	449	38.08	0	88.75	744	798.8	202	0.027
35	SCC 20-0-20	449	32.9	0	177.5	644	710	202	0.027

36	SCC 20-0-30	449	27.86	0	266.3	544	621.3	202	0.027
37	SCC 20-10-0	404.1	41.02	44.9	0	802	887.5	202	0.027
38	SCC 20-10-10	404.1	35.84	44.9	88.75	702	798.8	202	0.027
39	SCC 20-10-20	404.1	30.8	44.9	177.5	602	710	202	0.027
40	SCC 20-10-30	404.1	25.62	44.9	266.3	502	621.3	202	0.027
41	SCC 20-20-4	359.2	38.78	89.8	0	759	887.5	202	0.027
42	SCC 20-20-10	359.2	33.74	89.8	88.75	659	798.8	202	0.027
43	SCC 20-20-20	359.2	28.56	89.8	177.5	559	710	202	0.027
44	SCC 20-20-30	359.2	23.52	89.8	266.3	459	621.3	202	0.027
45	SCC 20-30-0	314.3	36.68	134.7	0	717	887.5	202	0.027
46	SCC 20-30-10	314.3	31.5	134.7	88.75	617	798.8	202	0.027
47	SCC 20-30-20	314.3	26.46	134.7	177.5	517	710	202	0.027
48	SCC 20-30-30	314.3	21.28	134.7	266.3	417	621.3	202	0.027
49	SCC 30-0-0	449	64.68	0	0	844	887.5	202	0.027
50	SCC 30-0-10	449	57.12	0	88.75	744	798.8	202	0.027
51	SCC 30-0-20	449	49.35	0	177.5	644	710	202	0.027
52	SCC 30-0-30	449	41.79	0	266.3	544	621.3	202	0.027
53	SCC 30-10-0	404.1	61.53	44.9	0	802	887.5	202	0.027
54	SCC 30-10-10	404.1	53.76	44.9	88.75	702	798.8	202	0.027
55	SCC 30-10-20	404.1	46.2	44.9	177.5	602	710	202	0.027
56	SCC 30-10-30	404.1	38.43	44.9	266.3	502	621.3	202	0.027
57	SCC 30-20-0	359.1	58.17	89.8	0	759	887.5	202	0.027
58	SCC 30-20-10	359.1	50.61	89.8	88.75	659	798.8	202	0.027
59	SCC 30-20-20	359.1	42.84	89.8	177.5	559	710	202	0.027
60	SCC 30-20-30	359.1	35.28	89.8	266.3	459	621.3	202	0.027

61	SCC 30-30-0	314.3	55.02	134.7	0	717	887.5	202	0.027
62	SCC 30-30-10	314.3	47.25	134.7	88.75	617	798.8	202	0.027
63	SCC 30-30-20	314.3	39.69	134.7	177.5	517	710	202	0.027
64	SCC 30-30-30	314.3	31.92	134.7	266.3	417	621.3	202	0.027

Table S2. DATA used for Modeling.

LECA (%)	GGBS (%)	BMWA (%)	Density (kg/m^3)	SP %	w/c ratio	CS (MPa)
TRAINING DATA						
0	0	0	2498.37	1.4	0.4	35.14
0	0	0	2440.89	1.4	0.4	35.34
0	20	0	2364.15	1.4	0.4	37.31
0	20	0	2367.70	1.4	0.4	37.83
0	30	0	2407.11	1.4	0.4	39.18
0	30	0	2479.70	1.4	0.4	39.62
10	10	0	2288.59	1.4	0.4	32.72
10	10	0	2323.26	1.4	0.4	32.05
10	20	0	2408.59	1.4	0.4	33.55
10	20	0	2449.78	1.4	0.4	33.25
10	30	0	2264.00	1.4	0.4	30.90
10	30	0	2352.89	1.4	0.4	30.01
20	10	0	2288.59	1.4	0.4	29.32
20	10	0	2317.33	1.4	0.4	30.77
20	20	0	2344.30	1.4	0.4	30.02
20	20	0	2317.63	1.4	0.4	30.28
20	30	0	2433.19	1.4	0.4	30.98
20	30	0	2367.70	1.4	0.4	30.54
10	10	10	2314.37	1.4	0.4	33.17
10	10	10	2345.48	1.4	0.4	34.29
20	10	10	2258.07	1.4	0.4	28.46
20	10	10	2251.26	1.4	0.4	28.11
0	0	10	2323.26	1.4	0.4	29.47
0	0	10	2364.74	1.4	0.4	30.32
0	0	20	2318.22	1.4	0.4	30.82
0	0	20	2309.33	1.4	0.4	31.10
0	0	30	2166.52	1.4	0.4	25.92
0	0	30	2199.70	1.4	0.4	24.66
0	10	10	2302.52	1.4	0.4	30.51
0	10	10	2281.19	1.4	0.4	30.65
0	10	20	2436.44	1.4	0.4	30.36
0	10	20	2369.78	1.4	0.4	30.44
0	10	30	2288.30	1.4	0.4	27.57
0	10	30	2306.37	1.4	0.4	28.21
0	20	10	2403.56	1.4	0.4	29.35
0	20	10	2435.85	1.4	0.4	29.60
0	20	20	2240.59	1.4	0.4	28.56
0	20	20	2202.67	1.4	0.4	28.11
30	10	0	2312.89	1.4	0.4	29.10
30	10	0	2316.74	1.4	0.4	29.42
30	20	0	2347.56	1.4	0.4	29.88
30	20	0	2343.11	1.4	0.4	29.70

30	30	0	2253.33	1.4	0.4	30.65
30	30	0	2260.15	1.4	0.4	30.23
10	0	0	2341.33	1.4	0.4	32.12
10	0	0	2327.70	1.4	0.4	32.15
20	0	0	2255.11	1.4	0.4	31.08
20	0	0	2266.07	1.4	0.4	31.23
30	0	0	2191.41	1.4	0.4	28.57
30	0	0	2197.93	1.4	0.4	28.83
0	10	0	2429.04	1.4	0.4	34.87
0	10	0	2413.93	1.4	0.4	34.97
0	20	30	2111.41	1.4	0.4	29.12
0	20	30	2129.19	1.4	0.4	29.74
0	30	10	2312.89	1.4	0.4	30.77
0	30	10	2341.93	1.4	0.4	31.23
0	30	20	2208.00	1.4	0.4	31.66
0	30	20	2230.52	1.4	0.4	32.07
0	30	30	2119.11	1.4	0.4	27.76
0	30	30	2140.44	1.4	0.4	28.51
10	0	10	2356.15	1.4	0.4	30.28
10	0	10	2336.59	1.4	0.4	30.91
10	0	20	2200.89	1.4	0.4	28.12
10	0	20	2251.26	1.4	0.4	27.92
10	0	30	2285.04	1.4	0.4	26.72
10	0	30	2222.81	1.4	0.4	25.91
10	10	20	2249.48	1.4	0.4	30.06
10	10	20	2280.89	1.4	0.4	30.33
10	10	30	2239.41	1.4	0.4	27.50
10	10	30	2193.19	1.4	0.4	26.59
10	20	10	2258.67	1.4	0.4	28.57
10	20	10	2298.07	1.4	0.4	28.96
0	20	20	2356.15	1.4	0.4	27.99
0	20	20	2403.56	1.4	0.4	28.12
10	20	30	2208.00	1.4	0.4	27.07
10	20	30	2189.04	1.4	0.4	27.55
20	0	10	2231.41	1.4	0.4	27.06
20	0	10	2280.89	1.4	0.4	26.50
20	0	20	2242.37	1.4	0.4	29.17
20	0	20	2194.96	1.4	0.4	29.41
20	0	30	2243.85	1.4	0.4	28.37
20	0	30	2222.81	1.4	0.4	27.84
30	10	10	2224.00	1.4	0.4	30.04
30	10	10	2216.89	1.4	0.4	29.88
30	10	20	2200.30	1.4	0.4	30.77
30	10	20	2193.78	1.4	0.4	31.17
30	10	30	2183.11	1.4	0.4	28.06
30	10	30	2164.44	1.4	0.4	27.95

30	20	10	2200.30	1.4	0.4	30.64
30	20	10	2218.96	1.4	0.4	30.32
30	20	20	2144.00	1.4	0.4	30.65
30	20	20	2130.96	1.4	0.4	30.47
30	20	30	2132.15	1.4	0.4	28.11
30	20	30	2110.52	1.4	0.4	28.15
10	30	10	2200.30	1.4	0.4	31.76
10	30	10	2218.07	1.4	0.4	32.57
10	30	20	2218.96	1.4	0.4	28.81
10	30	20	2200.30	1.4	0.4	29.10
10	30	30	2178.37	1.4	0.4	28.94
10	30	30	2193.19	1.4	0.4	28.56
20	10	20	2161.78	1.4	0.4	29.89
20	10	20	2180.44	1.4	0.4	30.64
20	10	30	2208.30	1.4	0.4	25.43
20	10	30	2188.15	1.4	0.4	25.86
20	20	10	2179.56	1.4	0.4	29.73
20	20	10	2218.96	1.4	0.4	29.46
20	20	20	2186.96	1.4	0.4	27.50
20	20	20	2193.19	1.4	0.4	27.05
20	20	30	2170.07	1.4	0.4	26.77
20	20	30	2165.33	1.4	0.4	26.61
20	30	10	2307.85	1.4	0.4	25.99
20	30	10	2317.93	1.4	0.4	25.06
20	30	20	2286.81	1.4	0.4	23.66
20	30	20	2279.11	1.4	0.4	23.93
20	30	30	2251.26	1.4	0.4	23.12
20	30	30	2258.07	1.4	0.4	22.79
30	0	10	2316.74	1.4	0.4	23.54
30	0	10	2293.93	1.4	0.4	23.39
30	0	20	2267.26	1.4	0.4	21.80
30	0	20	2281.78	1.4	0.4	21.39
30	0	30	2252.44	1.4	0.4	20.38
30	0	30	2200.89	1.4	0.4	20.77
30	30	10	2260.15	1.4	0.4	26.25
30	30	10	2280.59	1.4	0.4	26.51
30	30	20	2200.89	1.4	0.4	24.90
30	30	20	2222.52	1.4	0.4	25.29
30	30	30	2164.15	1.4	0.4	23.06
30	30	30	2136.89	1.4	0.4	23.10
0	0	0	2377.19	0.6	0.45	33.90
0	0	0	2408.59	0.6	0.45	34.47
10	0	0	2314.67	0.6	0.45	30.15
10	0	0	2344.89	0.6	0.45	30.80
20	0	0	2317.93	0.6	0.45	29.11
20	0	0	2311.41	0.6	0.45	28.83

30	0	0	2261.04	0.6	0.45	29.83
30	0	0	2281.78	0.6	0.45	29.57
0	10	0	2492.44	0.6	0.45	30.79
0	10	0	2485.04	0.6	0.45	30.43
0	20	0	2330.67	0.6	0.45	30.83
0	20	0	2373.93	0.6	0.45	31.52
0	30	0	2513.19	0.6	0.45	32.50
0	30	0	2466.96	0.6	0.45	32.26
10	10	0	2352.00	0.6	0.45	27.77
10	10	0	2327.11	0.6	0.45	28.39
10	20	0	2432.89	0.6	0.45	34.77
10	20	0	2381.04	0.6	0.45	34.48
10	30	0	2394.67	0.6	0.45	33.34
10	30	0	2438.81	0.6	0.45	33.63
20	10	0	2530.67	0.6	0.45	29.00
20	10	0	2488.30	0.6	0.45	27.70
20	20	0	2347.85	0.6	0.45	28.57
20	20	0	2312.30	0.6	0.45	29.44
20	30	0	2312.00	0.6	0.45	28.30
20	30	0	2339.26	0.6	0.45	27.67
30	10	0	2336.00	0.6	0.45	27.10
30	10	0	2349.04	0.6	0.45	27.49
30	20	0	2492.44	0.6	0.45	25.08
30	20	0	2464.00	0.6	0.45	25.89
30	30	0	2406.52	0.6	0.45	28.39
30	30	0	2365.04	0.6	0.45	28.83
0	0	10	2285.63	0.6	0.45	33.19
0	0	10	2255.41	0.6	0.45	33.70
0	0	20	2307.56	0.6	0.45	30.87
0	0	20	2258.96	0.6	0.45	30.64
0	0	30	2165.63	0.6	0.45	22.48
0	0	30	2196.15	0.6	0.45	23.17
0	10	10	2242.67	0.6	0.45	30.70
0	10	10	2218.07	0.6	0.45	31.05
0	10	20	2222.81	0.6	0.45	28.93
0	10	20	2209.78	0.6	0.45	29.46
0	10	30	2161.78	0.6	0.45	23.68
0	10	30	2181.93	0.6	0.45	23.93
0	20	10	2280.89	0.6	0.45	31.32
0	20	10	2242.37	0.6	0.45	31.66
0	20	20	2191.11	0.6	0.45	26.35
0	20	20	2221.04	0.6	0.45	26.77
0	20	30	2210.07	0.6	0.45	24.10
0	20	30	2190.22	0.6	0.45	24.82
0	30	10	2312.59	0.6	0.45	31.61
0	30	10	2345.48	0.6	0.45	31.88

0	30	20	2285.63	0.6	0.45	28.51
0	30	20	2267.26	0.6	0.45	28.81
0	30	30	2258.96	0.6	0.45	24.12
0	30	30	2247.11	0.6	0.45	23.32
10	0	10	2187.26	0.6	0.45	27.23
10	0	10	2216.89	0.6	0.45	26.52
10	0	20	2258.67	0.6	0.45	30.50
10	0	20	2222.81	0.6	0.45	30.65
10	0	30	2148.44	0.6	0.45	27.83
10	0	30	2164.44	0.6	0.45	28.11
10	10	10	2326.52	0.6	0.45	30.99
10	10	10	2356.15	0.6	0.45	31.60
10	20	10	2356.15	0.6	0.45	32.98
10	20	10	2327.70	0.6	0.45	33.61
10	30	10	2137.48	0.6	0.45	20.55
10	30	10	2149.93	0.6	0.45	19.95
20	0	10	2225.19	0.6	0.45	18.59
20	0	10	2200.30	0.6	0.45	19.24
20	10	10	2222.81	0.6	0.45	20.85
20	10	10	2203.56	0.6	0.45	21.00
20	20	10	2178.37	0.6	0.45	29.96
20	20	10	2153.19	0.6	0.45	29.44
20	30	10	2285.63	0.6	0.45	27.15
20	30	10	2258.67	0.6	0.45	27.71
30	0	10	2257.19	0.6	0.45	20.99
30	0	10	2287.70	0.6	0.45	21.90
30	10	10	2180.44	0.6	0.45	22.71
30	10	10	2196.15	0.6	0.45	23.85
30	20	10	2170.07	0.6	0.45	18.32
30	20	10	2150.52	0.6	0.45	18.60
30	30	10	2228.44	0.6	0.45	27.12
30	30	10	2199.41	0.6	0.45	27.72
10	10	20	2222.81	0.6	0.45	28.11
10	10	20	2229.93	0.6	0.45	28.81
10	10	30	2144.89	0.6	0.45	26.64
10	10	30	2180.44	0.6	0.45	26.90
10	20	20	2331.56	0.6	0.45	27.70
10	20	20	2288.59	0.6	0.45	28.36
10	20	30	2170.37	0.6	0.45	27.21
10	20	30	2194.07	0.6	0.45	28.11
10	30	20	2164.74	0.6	0.45	19.03
10	30	20	2193.48	0.6	0.45	19.49
10	30	30	2119.11	0.6	0.45	20.30
10	30	30	2134.81	0.6	0.45	21.00
20	0	20	2191.41	0.6	0.45	20.88
20	0	20	2211.85	0.6	0.45	21.44

20	0	30	2111.11	0.6	0.45	18.34
20	0	30	2134.52	0.6	0.45	19.09
20	10	20	2134.22	0.6	0.45	29.28
20	10	20	2150.52	0.6	0.45	29.64
20	10	30	2170.07	0.6	0.45	26.06
20	10	30	2161.78	0.6	0.45	26.73
20	20	20	2153.78	0.6	0.45	27.21
20	20	20	2125.93	0.6	0.45	27.77
20	20	30	2159.70	0.6	0.45	23.41
20	20	30	2134.52	0.6	0.45	24.12
20	30	20	2223.41	0.6	0.45	23.55
20	30	20	2242.37	0.6	0.45	24.13
20	30	30	2212.44	0.6	0.45	20.85
20	30	30	2246.22	0.6	0.45	20.99
30	0	20	2222.81	0.6	0.45	19.66
30	0	20	2240.30	0.6	0.45	20.50
30	0	30	2210.07	0.6	0.45	18.35
30	0	30	2183.11	0.6	0.45	18.08
30	10	20	2171.26	0.6	0.45	20.35
30	10	20	2246.81	0.6	0.45	21.25
30	10	30	2208.30	0.6	0.45	18.32
30	10	30	2252.44	0.6	0.45	19.05
30	20	20	2149.93	0.6	0.45	21.00
30	20	20	2183.41	0.6	0.45	34.87
30	20	30	2147.56	0.6	0.45	20.19
30	20	30	2200.30	0.6	0.45	21.00
30	30	20	2170.07	0.6	0.45	22.69
30	30	20	2158.52	0.6	0.45	22.77
30	30	30	2134.22	0.6	0.45	21.27
30	30	30	2109.33	0.6	0.45	21.57
TESTING DATA						
0	0	0	2458.07	1.4	0.4	36.10
0	20	0	2406.52	1.4	0.4	37.55
0	30	0	2436.44	1.4	0.4	39.21
10	10	0	2308.44	1.4	0.4	32.00
10	20	0	2409.19	1.4	0.4	33.92
10	30	0	2318.22	1.4	0.4	30.59
20	10	0	2284.74	1.4	0.4	29.50
20	20	0	2340.44	1.4	0.4	30.59
20	30	0	2407.41	1.4	0.4	30.84
10	10	10	2320.59	1.4	0.4	33.89
20	10	10	2256.89	1.4	0.4	27.77
0	0	10	2344.00	1.4	0.4	29.83
0	0	20	2314.67	1.4	0.4	31.39
0	0	30	2162.37	1.4	0.4	24.99
0	10	10	2278.81	1.4	0.4	29.46

0	10	20	2407.11	1.4	0.4	30.24
0	10	30	2283.26	1.4	0.4	27.23
0	20	10	2425.78	1.4	0.4	29.75
0	20	20	2208.00	1.4	0.4	27.59
30	10	0	2314.67	1.4	0.4	28.86
30	20	0	2345.19	1.4	0.4	30.50
30	30	0	2255.41	1.4	0.4	30.59
10	0	0	2333.04	1.4	0.4	32.56
20	0	0	2259.56	1.4	0.4	30.65
30	0	0	2194.37	1.4	0.4	28.38
0	10	0	2415.41	1.4	0.4	34.45
0	20	30	2114.96	1.4	0.4	29.46
0	30	10	2324.44	1.4	0.4	31.92
0	30	20	2221.04	1.4	0.4	32.41
0	30	30	2130.96	1.4	0.4	28.12
10	0	10	2342.22	1.4	0.4	31.17
10	0	20	2234.67	1.4	0.4	27.22
10	0	30	2259.26	1.4	0.4	26.33
10	10	20	2258.07	1.4	0.4	29.70
10	10	30	2208.00	1.4	0.4	27.12
10	20	10	2280.59	1.4	0.4	29.32
0	20	20	2375.70	1.4	0.4	28.41
10	20	30	2193.19	1.4	0.4	27.71
20	0	10	2255.41	1.4	0.4	27.65
20	0	20	2198.81	1.4	0.4	28.57
20	0	30	2242.37	1.4	0.4	28.01
30	10	10	2221.63	1.4	0.4	30.32
30	10	20	2197.93	1.4	0.4	30.42
30	10	30	2170.37	1.4	0.4	28.45
30	20	10	2208.00	1.4	0.4	30.06
30	20	20	2133.63	1.4	0.4	30.02
30	20	30	2119.11	1.4	0.4	27.77
10	30	10	2208.00	1.4	0.4	32.19
10	30	20	2208.00	1.4	0.4	29.25
10	30	30	2183.41	1.4	0.4	28.64
20	10	20	2175.11	1.4	0.4	30.48
20	10	30	2193.19	1.4	0.4	26.06
20	20	10	2208.00	1.4	0.4	29.07
20	20	20	2190.81	1.4	0.4	27.13
20	20	30	2166.52	1.4	0.4	25.97
20	30	10	2314.67	1.4	0.4	25.45
20	30	20	2282.67	1.4	0.4	23.26
20	30	30	2255.41	1.4	0.4	23.05
30	0	10	2283.85	1.4	0.4	23.06
30	0	20	2280.89	1.4	0.4	22.08
30	0	30	2250.67	1.4	0.4	20.54

30	30	10	2261.04	1.4	0.4	26.78
30	30	20	2214.52	1.4	0.4	25.19
30	30	30	2149.93	1.4	0.4	22.77
0	0	0	2403.56	0.6	0.45	35.04
10	0	0	2327.70	0.6	0.45	30.45
20	0	0	2315.26	0.6	0.45	28.45
30	0	0	2279.11	0.6	0.45	30.47
0	10	0	2486.52	0.6	0.45	31.18
0	20	0	2369.19	0.6	0.45	31.17
0	30	0	2479.70	0.6	0.45	33.00
10	10	0	2342.52	0.6	0.45	27.55
10	20	0	2424.30	0.6	0.45	34.00
10	30	0	2408.30	0.6	0.45	33.88
20	10	0	2466.37	0.6	0.45	28.51
20	20	0	2340.44	0.6	0.45	29.24
20	30	0	2326.52	0.6	0.45	27.95
30	10	0	2344.30	0.6	0.45	26.63
30	20	0	2479.11	0.6	0.45	25.65
30	30	0	2377.48	0.6	0.45	27.69
0	0	10	2263.11	0.6	0.45	34.21
0	0	20	2280.89	0.6	0.45	31.37
0	0	30	2183.11	0.6	0.45	22.78
0	10	10	2237.63	0.6	0.45	30.35
0	10	20	2221.33	0.6	0.45	29.29
0	10	30	2170.07	0.6	0.45	23.52
0	20	10	2261.33	0.6	0.45	30.78
0	20	20	2209.19	0.6	0.45	25.44
0	20	30	2202.67	0.6	0.45	23.85
0	30	10	2330.67	0.6	0.45	31.06
0	30	20	2280.59	0.6	0.45	28.10
0	30	30	2256.59	0.6	0.45	23.63
10	0	10	2211.56	0.6	0.45	26.25
10	0	20	2237.63	0.6	0.45	30.15
10	0	30	2149.93	0.6	0.45	27.62
10	10	10	2331.56	0.6	0.45	31.32
10	20	10	2341.33	0.6	0.45	32.83
10	30	10	2119.11	0.6	0.45	20.19
20	0	10	2221.63	0.6	0.45	18.97
20	10	10	2221.63	0.6	0.45	20.38
20	20	10	2165.04	0.6	0.45	30.62
20	30	10	2280.89	0.6	0.45	26.32
30	0	10	2280.59	0.6	0.45	21.54
30	10	10	2194.07	0.6	0.45	24.12
30	20	10	2164.74	0.6	0.45	18.90
30	30	10	2213.04	0.6	0.45	27.64
10	10	20	2221.63	0.6	0.45	29.03

10	10	30	2175.41	0.6	0.45	27.16
10	20	20	2318.22	0.6	0.45	27.58
10	20	30	2192.00	0.6	0.45	27.75
10	30	20	2170.07	0.6	0.45	18.90
10	30	30	2132.15	0.6	0.45	20.85
20	0	20	2198.81	0.6	0.45	21.28
20	0	30	2120.30	0.6	0.45	19.24
20	10	20	2145.48	0.6	0.45	28.90
20	10	30	2163.56	0.6	0.45	26.32
20	20	20	2144.30	0.6	0.45	26.24
20	20	30	2153.48	0.6	0.45	23.68
20	30	20	2230.81	0.6	0.45	23.94
20	30	30	2225.78	0.6	0.45	21.34
30	0	20	2229.04	0.6	0.45	20.03
30	0	30	2200.59	0.6	0.45	19.06
30	10	20	2183.41	0.6	0.45	20.59
30	10	30	2221.63	0.6	0.45	18.84
30	20	20	2158.81	0.6	0.45	21.15
30	20	30	2182.22	0.6	0.45	20.81
30	30	20	2165.33	0.6	0.45	23.06
30	30	30	2121.19	0.6	0.45	20.72