

**Table (16): Lighting Analyses Room Schedule, Building GS, Whole Building Results – 9am continue.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	9am threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Ground Floor	Ground Floor	22	47 m <sup>2</sup>	Yes	No	64	31 m <sup>2</sup>	0	0 m <sup>2</sup>	36	17 m <sup>2</sup>
Ground Floor	Ground Floor	23	29 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	29 m <sup>2</sup>
Ground Floor	Ground Floor	24	44 m <sup>2</sup>	Yes	No	82	36 m <sup>2</sup>	9	4 m <sup>2</sup>	9	4 m <sup>2</sup>
Ground Floor	Ground Floor	25	44 m <sup>2</sup>	Yes	No	83	37 m <sup>2</sup>	17	7 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	26	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	15 m <sup>2</sup>
Ground Floor	Ground Floor	27	50 m <sup>2</sup>	Yes	No	94	46 m <sup>2</sup>	6	3 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	28	47 m <sup>2</sup>	Yes	No	100	47 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	29	21 m <sup>2</sup>	Yes	No	100	21 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	30	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	31	16 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	16 m <sup>2</sup>
Ground Floor	Ground Floor	32	8 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	8 m <sup>2</sup>
Ground Floor	Ground Floor	33	12 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	12 m <sup>2</sup>
Ground Floor	Ground Floor	34	8 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	8 m <sup>2</sup>
Ground Floor	Ground Floor	35	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Ground Floor	Ground Floor	36	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Ground Floor	Ground Floor	37	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Ground Floor	Ground Floor	38	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Ground Floor	Ground Floor	39	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Ground Floor	Ground Floor	40	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	41	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Ground Floor	Ground Floor	42	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Ground Floor	Ground Floor	43	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
First Floor	First Floor	44	65 m <sup>2</sup>	Yes	No	72	47 m <sup>2</sup>	0	0 m <sup>2</sup>	28	18 m <sup>2</sup>
First Floor	First Floor	45	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	46	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	47	318 m <sup>2</sup>	Yes	No	10	31 m <sup>2</sup>	0	0 m <sup>2</sup>	90	287 m <sup>2</sup>
First Floor	First Floor	48	42 m <sup>2</sup>	Yes	No	100	42 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	49	14 m <sup>2</sup>	Yes	No	100	14 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	50	24 m <sup>2</sup>	Yes	No	67	16 m <sup>2</sup>	0	0 m <sup>2</sup>	33	8 m <sup>2</sup>
First Floor	First Floor	51	24 m <sup>2</sup>	Yes	No	57	14 m <sup>2</sup>	0	0 m <sup>2</sup>	43	10 m <sup>2</sup>
First Floor	First Floor	52	13 m <sup>2</sup>	Yes	No	75	10 m <sup>2</sup>	0	0 m <sup>2</sup>	25	3 m <sup>2</sup>
First Floor	First Floor	53	45 m <sup>2</sup>	Yes	No	100	45 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	54	48 m <sup>2</sup>	Yes	No	75	36 m <sup>2</sup>	0	0 m <sup>2</sup>	25	12 m <sup>2</sup>
First Floor	First Floor	55	48 m <sup>2</sup>	Yes	No	88	42 m <sup>2</sup>	0	0 m <sup>2</sup>	13	6 m <sup>2</sup>
First Floor	First Floor	56	48 m <sup>2</sup>	Yes	No	100	48 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>

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Level	Name	Number	Area	Include In Daylighting	Automated Shades	9am threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
First Floor	First Floor	57	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	15 m <sup>2</sup>
First Floor	First Floor	58	44 m <sup>2</sup>	Yes	No	100	44 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	59	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
First Floor	First Floor	60	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
First Floor	First Floor	61	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	62	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
First Floor	First Floor	63	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
First Floor	First Floor	64	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
First Floor	First Floor	65	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
First Floor	First Floor	66	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
First Floor	First Floor	67	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
First Floor	First Floor	68	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
First Floor	First Floor	69	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
First Floor	First Floor	70	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
First Floor	First Floor	71	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	72	45 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	45 m <sup>2</sup>
Second Floor	Second Floor	73	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	74	48 m <sup>2</sup>	Yes	No	50	24 m <sup>2</sup>	0	0 m <sup>2</sup>	50	24 m <sup>2</sup>
Second Floor	Second Floor	75	48 m <sup>2</sup>	Yes	No	67	32 m <sup>2</sup>	0	0 m <sup>2</sup>	33	16 m <sup>2</sup>
Second Floor	Second Floor	76	48 m <sup>2</sup>	Yes	No	92	44 m <sup>2</sup>	8	4 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	77	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	78	270 m <sup>2</sup>	Yes	No	2	4 m <sup>2</sup>	0	0 m <sup>2</sup>	98	265 m <sup>2</sup>
Second Floor	Second Floor	79	44 m <sup>2</sup>	Yes	No	88	39 m <sup>2</sup>	0	0 m <sup>2</sup>	13	6 m <sup>2</sup>
Second Floor	Second Floor	80	65 m <sup>2</sup>	Yes	No	71	46 m <sup>2</sup>	0	0 m <sup>2</sup>	29	19 m <sup>2</sup>
Second Floor	Second Floor	81	46 m <sup>2</sup>	Yes	No	75	34 m <sup>2</sup>	0	0 m <sup>2</sup>	25	11 m <sup>2</sup>
Second Floor	Second Floor	82	46 m <sup>2</sup>	Yes	No	63	28 m <sup>2</sup>	0	0 m <sup>2</sup>	38	17 m <sup>2</sup>
Second Floor	Second Floor	83	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	84	20 m <sup>2</sup>	Yes	No	50	10 m <sup>2</sup>	0	0 m <sup>2</sup>	50	10 m <sup>2</sup>
Second Floor	Second Floor	85	20 m <sup>2</sup>	Yes	No	100	20 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	86	14 m <sup>2</sup>	Yes	No	67	9 m <sup>2</sup>	0	0 m <sup>2</sup>	33	5 m <sup>2</sup>
Second Floor	Second Floor	87	24 m <sup>2</sup>	Yes	No	44	11 m <sup>2</sup>	0	0 m <sup>2</sup>	56	13 m <sup>2</sup>
Second Floor	Second Floor	88	24 m <sup>2</sup>	Yes	No	25	6 m <sup>2</sup>	0	0 m <sup>2</sup>	75	18 m <sup>2</sup>
Second Floor	Second Floor	89	13 m <sup>2</sup>	Yes	No	67	9 m <sup>2</sup>	0	0 m <sup>2</sup>	33	4 m <sup>2</sup>
Second Floor	Second Floor	90	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Second Floor	Second Floor	91	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>

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Level	Name	Number	Area	Include In Daylighting	Automated Shades	9am threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Second Floor	Second Floor	92	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Second Floor	Second Floor	93	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Second Floor	Second Floor	94	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Second Floor	Second Floor	96	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Second Floor	Second Floor	97	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
Second Floor	Second Floor	98	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Second Floor	Second Floor	99	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Second Floor	Second Floor	100	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	101	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Second Floor	Second Floor	102	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Second Floor	Second Floor	103	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	104	45 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	45 m <sup>2</sup>
Third Floor	Third Floor	105	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	106	48 m <sup>2</sup>	Yes	No	58	28 m <sup>2</sup>	0	0 m <sup>2</sup>	42	20 m <sup>2</sup>
Third Floor	Third Floor	107	16 m <sup>2</sup>	Yes	No	50	8 m <sup>2</sup>	0	0 m <sup>2</sup>	50	8 m <sup>2</sup>
Third Floor	Third Floor	108	16 m <sup>2</sup>	Yes	No	100	16 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	109	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	15 m <sup>2</sup>
Third Floor	Third Floor	110	48 m <sup>2</sup>	Yes	No	92	44 m <sup>2</sup>	8	4 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	111	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	112	269 m <sup>2</sup>	Yes	No	2	4 m <sup>2</sup>	0	0 m <sup>2</sup>	98	265 m <sup>2</sup>
Third Floor	Third Floor	113	44 m <sup>2</sup>	Yes	No	88	39 m <sup>2</sup>	0	0 m <sup>2</sup>	13	6 m <sup>2</sup>
Third Floor	Third Floor	114	65 m <sup>2</sup>	Yes	No	67	43 m <sup>2</sup>	0	0 m <sup>2</sup>	33	22 m <sup>2</sup>
Third Floor	Third Floor	115	46 m <sup>2</sup>	Yes	No	69	31 m <sup>2</sup>	0	0 m <sup>2</sup>	31	14 m <sup>2</sup>
Third Floor	Third Floor	116	46 m <sup>2</sup>	Yes	No	63	28 m <sup>2</sup>	0	0 m <sup>2</sup>	38	17 m <sup>2</sup>
Third Floor	Third Floor	117	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Third Floor	Third Floor	118	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Third Floor	Third Floor	119	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	120	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Third Floor	Third Floor	121	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Third Floor	Third Floor	122	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	123	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Third Floor	Third Floor	124	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Third Floor	Third Floor	125	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Third Floor	Third Floor	126	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Third Floor	Third Floor	127	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>

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						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Third Floor	Third Floor	128	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Third Floor	Third Floor	129	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
Third Floor	Third Floor	130	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Third Floor	Third Floor	131	13 m <sup>2</sup>	Yes	No	67	9 m <sup>2</sup>	0	0 m <sup>2</sup>	33	4 m <sup>2</sup>
Third Floor	Third Floor	132	24 m <sup>2</sup>	Yes	No	25	6 m <sup>2</sup>	0	0 m <sup>2</sup>	75	18 m <sup>2</sup>
Third Floor	Third Floor	133	24 m <sup>2</sup>	Yes	No	44	11 m <sup>2</sup>	0	0 m <sup>2</sup>	56	13 m <sup>2</sup>
Third Floor	Third Floor	134	14 m <sup>2</sup>	Yes	No	67	9 m <sup>2</sup>	0	0 m <sup>2</sup>	33	5 m <sup>2</sup>
Third Floor	Third Floor	135	42 m <sup>2</sup>	Yes	No	100	42 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	136	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	137	41 m <sup>2</sup>	Yes	No	100	41 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	138	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	139	45 m <sup>2</sup>	Yes	No	100	45 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	140	45 m <sup>2</sup>	Yes	No	100	45 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	141	46 m <sup>2</sup>	Yes	No	92	42 m <sup>2</sup>	8	4 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	142	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	143	65 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	65 m <sup>2</sup>
Fourth Floor	Fourth Floor	144	12 m <sup>2</sup>	Yes	No	67	8 m <sup>2</sup>	0	0 m <sup>2</sup>	33	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	145	23 m <sup>2</sup>	Yes	No	38	9 m <sup>2</sup>	0	0 m <sup>2</sup>	63	14 m <sup>2</sup>
Fourth Floor	Fourth Floor	146	204 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	204 m <sup>2</sup>
Fourth Floor	Fourth Floor	147	23 m <sup>2</sup>	Yes	No	44	10 m <sup>2</sup>	0	0 m <sup>2</sup>	56	13 m <sup>2</sup>
Fourth Floor	Fourth Floor	148	13 m <sup>2</sup>	Yes	No	67	9 m <sup>2</sup>	0	0 m <sup>2</sup>	33	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	149	39 m <sup>2</sup>	Yes	No	100	39 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	150	43 m <sup>2</sup>	Yes	No	81	35 m <sup>2</sup>	0	0 m <sup>2</sup>	19	8 m <sup>2</sup>
Fourth Floor	Fourth Floor	151	43 m <sup>2</sup>	Yes	No	81	35 m <sup>2</sup>	0	0 m <sup>2</sup>	19	8 m <sup>2</sup>
Fourth Floor	Fourth Floor	152	60 m <sup>2</sup>	Yes	No	100	60 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	153	42 m <sup>2</sup>	Yes	No	100	42 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	154	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Fourth Floor	Fourth Floor	155	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Fourth Floor	Fourth Floor	156	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	157	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Fourth Floor	Fourth Floor	158	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	159	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	160	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	161	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	162	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>

**Table (5): Lighting Analyses Room Schedule, Building GS, Whole Building Results – 9am continue.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	9am threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Fourth Floor	Fourth Floor	163	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Fourth Floor	Fourth Floor	164	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Fourth Floor	Fourth Floor	165	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Fourth Floor	Fourth Floor	166	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
Fourth Floor	Fourth Floor	167	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Fourth Floor	Fourth Floor	168	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Roof Floor	Roof Floor	169	29 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	29 m <sup>2</sup>

**Table (17): Lighting Analyses Room Schedule, Building GS, Whole Building Results - 3pm.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	3pm threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Basement	Basements	1	66 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	66 m <sup>2</sup>
Basement	Basements	2	66 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	66 m <sup>2</sup>
Basement	Basements	3	67 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	67 m <sup>2</sup>
Basement	Basements	4	31 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	31 m <sup>2</sup>
Basement	Basements	5	1206 m <sup>2</sup>	Yes	No	12	142 m <sup>2</sup>	5	59 m <sup>2</sup>	83	1004 m <sup>2</sup>
Basement	Basements	6	57 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	57 m <sup>2</sup>
Basement	Basements	7	31 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	31 m <sup>2</sup>
Basement	Basements	8	38 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	38 m <sup>2</sup>
Basement	Basements	9	33 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	33 m <sup>2</sup>
Basement	Basements	10	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	9 m <sup>2</sup>
Basement	Basements	11	25 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	25 m <sup>2</sup>
Basement	Basements	12	41 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	41 m <sup>2</sup>
Ground Floor	Ground Floor	13	47 m <sup>2</sup>	Yes	No	93	43 m <sup>2</sup>	7	3 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	14	343 m <sup>2</sup>	Yes	No	18	63 m <sup>2</sup>	0	0 m <sup>2</sup>	82	281 m <sup>2</sup>
Ground Floor	Ground Floor	15	11 m <sup>2</sup>	Yes	No	50	5 m <sup>2</sup>	50	5 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	16	15 m <sup>2</sup>	Yes	No	80	12 m <sup>2</sup>	20	3 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	17	15 m <sup>2</sup>	Yes	No	80	12 m <sup>2</sup>	20	3 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	18	11 m <sup>2</sup>	Yes	No	100	11 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	19	46 m <sup>2</sup>	Yes	No	92	43 m <sup>2</sup>	8	4 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	20	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	21	48 m <sup>2</sup>	Yes	No	46	22 m <sup>2</sup>	0	0 m <sup>2</sup>	54	26 m <sup>2</sup>

**Table (17): Lighting Analyses Room Schedule, Building GS, Whole Building Results - 3pm.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	3pm threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Ground Floor	Ground Floor	22	47 m <sup>2</sup>	Yes	No	86	41 m <sup>2</sup>	0	0 m <sup>2</sup>	14	7 m <sup>2</sup>
Ground Floor	Ground Floor	23	29 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	29 m <sup>2</sup>
Ground Floor	Ground Floor	24	44 m <sup>2</sup>	Yes	No	64	28 m <sup>2</sup>	0	0 m <sup>2</sup>	36	16 m <sup>2</sup>
Ground Floor	Ground Floor	25	44 m <sup>2</sup>	Yes	No	100	44 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	26	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	15 m <sup>2</sup>
Ground Floor	Ground Floor	27	50 m <sup>2</sup>	Yes	No	94	46 m <sup>2</sup>	0	0 m <sup>2</sup>	6	3 m <sup>2</sup>
Ground Floor	Ground Floor	28	47 m <sup>2</sup>	Yes	No	88	41 m <sup>2</sup>	0	0 m <sup>2</sup>	13	6 m <sup>2</sup>
Ground Floor	Ground Floor	29	21 m <sup>2</sup>	Yes	No	75	15 m <sup>2</sup>	0	0 m <sup>2</sup>	25	5 m <sup>2</sup>
Ground Floor	Ground Floor	30	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	31	16 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	16 m <sup>2</sup>
Ground Floor	Ground Floor	32	8 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	8 m <sup>2</sup>
Ground Floor	Ground Floor	33	12 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	12 m <sup>2</sup>
Ground Floor	Ground Floor	34	8 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	8 m <sup>2</sup>
Ground Floor	Ground Floor	35	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Ground Floor	Ground Floor	36	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Ground Floor	Ground Floor	37	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Ground Floor	Ground Floor	38	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Ground Floor	Ground Floor	39	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Ground Floor	Ground Floor	40	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Ground Floor	Ground Floor	41	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Ground Floor	Ground Floor	42	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Ground Floor	Ground Floor	43	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
First Floor	First Floor	44	65 m <sup>2</sup>	Yes	No	67	43 m <sup>2</sup>	0	0 m <sup>2</sup>	33	22 m <sup>2</sup>
First Floor	First Floor	45	46 m <sup>2</sup>	Yes	No	92	42 m <sup>2</sup>	0	0 m <sup>2</sup>	8	4 m <sup>2</sup>
First Floor	First Floor	46	46 m <sup>2</sup>	Yes	No	92	42 m <sup>2</sup>	0	0 m <sup>2</sup>	8	4 m <sup>2</sup>
First Floor	First Floor	47	318 m <sup>2</sup>	Yes	No	10	31 m <sup>2</sup>	0	0 m <sup>2</sup>	90	287 m <sup>2</sup>
First Floor	First Floor	48	42 m <sup>2</sup>	Yes	No	100	42 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	49	14 m <sup>2</sup>	Yes	No	100	14 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	50	24 m <sup>2</sup>	Yes	No	100	24 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	51	24 m <sup>2</sup>	Yes	No	86	21 m <sup>2</sup>	0	0 m <sup>2</sup>	14	3 m <sup>2</sup>
First Floor	First Floor	52	13 m <sup>2</sup>	Yes	No	100	13 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	53	45 m <sup>2</sup>	Yes	No	100	45 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	54	48 m <sup>2</sup>	Yes	No	88	42 m <sup>2</sup>	0	0 m <sup>2</sup>	13	6 m <sup>2</sup>
First Floor	First Floor	55	48 m <sup>2</sup>	Yes	No	88	42 m <sup>2</sup>	0	0 m <sup>2</sup>	13	6 m <sup>2</sup>
First Floor	First Floor	56	48 m <sup>2</sup>	Yes	No	100	48 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>

**Table (17): Lighting Analyses Room Schedule, Building GS, Whole Building Results - 3pm.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	3pm threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
First Floor	First Floor	57	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	15 m <sup>2</sup>
First Floor	First Floor	58	44 m <sup>2</sup>	Yes	No	100	44 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	59	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
First Floor	First Floor	60	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
First Floor	First Floor	61	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
First Floor	First Floor	62	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
First Floor	First Floor	63	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
First Floor	First Floor	64	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
First Floor	First Floor	65	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
First Floor	First Floor	66	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
First Floor	First Floor	67	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
First Floor	First Floor	68	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
First Floor	First Floor	69	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
First Floor	First Floor	70	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
First Floor	First Floor	71	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	72	45 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	45 m <sup>2</sup>
Second Floor	Second Floor	73	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	74	48 m <sup>2</sup>	Yes	No	50	24 m <sup>2</sup>	0	0 m <sup>2</sup>	50	24 m <sup>2</sup>
Second Floor	Second Floor	75	48 m <sup>2</sup>	Yes	No	67	32 m <sup>2</sup>	0	0 m <sup>2</sup>	33	16 m <sup>2</sup>
Second Floor	Second Floor	76	48 m <sup>2</sup>	Yes	No	100	48 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	77	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	78	270 m <sup>2</sup>	Yes	No	2	4 m <sup>2</sup>	0	0 m <sup>2</sup>	98	265 m <sup>2</sup>
Second Floor	Second Floor	79	44 m <sup>2</sup>	Yes	No	38	17 m <sup>2</sup>	0	0 m <sup>2</sup>	63	28 m <sup>2</sup>
Second Floor	Second Floor	80	65 m <sup>2</sup>	Yes	No	38	24 m <sup>2</sup>	0	0 m <sup>2</sup>	63	40 m <sup>2</sup>
Second Floor	Second Floor	81	46 m <sup>2</sup>	Yes	No	69	31 m <sup>2</sup>	0	0 m <sup>2</sup>	31	14 m <sup>2</sup>
Second Floor	Second Floor	82	46 m <sup>2</sup>	Yes	No	69	31 m <sup>2</sup>	0	0 m <sup>2</sup>	31	14 m <sup>2</sup>
Second Floor	Second Floor	83	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	84	20 m <sup>2</sup>	Yes	No	75	15 m <sup>2</sup>	25	5 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	85	20 m <sup>2</sup>	Yes	No	88	18 m <sup>2</sup>	13	3 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	86	14 m <sup>2</sup>	Yes	No	100	14 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	87	24 m <sup>2</sup>	Yes	No	89	21 m <sup>2</sup>	0	0 m <sup>2</sup>	11	3 m <sup>2</sup>
Second Floor	Second Floor	88	24 m <sup>2</sup>	Yes	No	75	18 m <sup>2</sup>	0	0 m <sup>2</sup>	25	6 m <sup>2</sup>
Second Floor	Second Floor	89	13 m <sup>2</sup>	Yes	No	100	13 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	90	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Second Floor	Second Floor	91	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>

**Table (17): Lighting Analyses Room Schedule, Building GS, Whole Building Results - 3pm.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	3pm threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Second Floor	Second Floor	92	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Second Floor	Second Floor	93	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Second Floor	Second Floor	94	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Second Floor	Second Floor	95	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Second Floor	Second Floor	96	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Second Floor	Second Floor	97	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
Second Floor	Second Floor	98	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Second Floor	Second Floor	99	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Second Floor	Second Floor	100	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Second Floor	Second Floor	101	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Second Floor	Second Floor	102	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Second Floor	Second Floor	103	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	104	45 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	45 m <sup>2</sup>
Third Floor	Third Floor	105	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	106	48 m <sup>2</sup>	Yes	No	67	32 m <sup>2</sup>	0	0 m <sup>2</sup>	33	16 m <sup>2</sup>
Third Floor	Third Floor	107	16 m <sup>2</sup>	Yes	No	50	8 m <sup>2</sup>	0	0 m <sup>2</sup>	50	8 m <sup>2</sup>
Third Floor	Third Floor	108	16 m <sup>2</sup>	Yes	No	100	16 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	109	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	15 m <sup>2</sup>
Third Floor	Third Floor	110	48 m <sup>2</sup>	Yes	No	100	48 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	111	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	112	269 m <sup>2</sup>	Yes	No	2	4 m <sup>2</sup>	0	0 m <sup>2</sup>	98	265 m <sup>2</sup>
Third Floor	Third Floor	113	44 m <sup>2</sup>	Yes	No	31	14 m <sup>2</sup>	0	0 m <sup>2</sup>	69	31 m <sup>2</sup>
Third Floor	Third Floor	114	65 m <sup>2</sup>	Yes	No	42	27 m <sup>2</sup>	0	0 m <sup>2</sup>	58	38 m <sup>2</sup>
Third Floor	Third Floor	115	46 m <sup>2</sup>	Yes	No	69	31 m <sup>2</sup>	0	0 m <sup>2</sup>	31	14 m <sup>2</sup>
Third Floor	Third Floor	116	46 m <sup>2</sup>	Yes	No	63	28 m <sup>2</sup>	0	0 m <sup>2</sup>	38	17 m <sup>2</sup>
Third Floor	Third Floor	117	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Third Floor	Third Floor	118	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Third Floor	Third Floor	119	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	120	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Third Floor	Third Floor	121	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Third Floor	Third Floor	122	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	123	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Third Floor	Third Floor	124	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Third Floor	Third Floor	125	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Third Floor	Third Floor	126	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>



**Table (17): Lighting Analyses Room Schedule, Building GS, Whole Building Results - 3pm.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	3pm threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Third Floor	Third Floor	127	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Third Floor	Third Floor	128	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Third Floor	Third Floor	129	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
Third Floor	Third Floor	130	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Third Floor	Third Floor	131	13 m <sup>2</sup>	Yes	No	100	13 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	132	24 m <sup>2</sup>	Yes	No	75	18 m <sup>2</sup>	0	0 m <sup>2</sup>	25	6 m <sup>2</sup>
Third Floor	Third Floor	133	24 m <sup>2</sup>	Yes	No	89	21 m <sup>2</sup>	0	0 m <sup>2</sup>	11	3 m <sup>2</sup>
Third Floor	Third Floor	134	14 m <sup>2</sup>	Yes	No	100	14 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	135	42 m <sup>2</sup>	Yes	No	81	34 m <sup>2</sup>	19	8 m <sup>2</sup>	0	0 m <sup>2</sup>
Third Floor	Third Floor	136	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	137	41 m <sup>2</sup>	Yes	No	100	41 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	138	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	139	45 m <sup>2</sup>	Yes	No	92	41 m <sup>2</sup>	0	0 m <sup>2</sup>	8	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	140	45 m <sup>2</sup>	Yes	No	100	45 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	141	46 m <sup>2</sup>	Yes	No	100	46 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	142	15 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	143	65 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	65 m <sup>2</sup>
Fourth Floor	Fourth Floor	144	12 m <sup>2</sup>	Yes	No	100	12 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	145	23 m <sup>2</sup>	Yes	No	100	23 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	146	204 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	204 m <sup>2</sup>
Fourth Floor	Fourth Floor	147	23 m <sup>2</sup>	Yes	No	89	21 m <sup>2</sup>	0	0 m <sup>2</sup>	11	3 m <sup>2</sup>
Fourth Floor	Fourth Floor	148	13 m <sup>2</sup>	Yes	No	100	13 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	149	39 m <sup>2</sup>	Yes	No	100	39 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	150	43 m <sup>2</sup>	Yes	No	81	35 m <sup>2</sup>	0	0 m <sup>2</sup>	19	8 m <sup>2</sup>
Fourth Floor	Fourth Floor	151	43 m <sup>2</sup>	Yes	No	81	35 m <sup>2</sup>	0	0 m <sup>2</sup>	19	8 m <sup>2</sup>
Fourth Floor	Fourth Floor	152	60 m <sup>2</sup>	Yes	No	96	57 m <sup>2</sup>	0	0 m <sup>2</sup>	4	2 m <sup>2</sup>
Fourth Floor	Fourth Floor	153	42 m <sup>2</sup>	Yes	No	69	29 m <sup>2</sup>	0	0 m <sup>2</sup>	31	13 m <sup>2</sup>
Fourth Floor	Fourth Floor	154	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Fourth Floor	Fourth Floor	155	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Fourth Floor	Fourth Floor	156	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	157	7 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	7 m <sup>2</sup>
Fourth Floor	Fourth Floor	158	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	159	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Fourth Floor	Fourth Floor	160	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>
Fourth Floor	Fourth Floor	161	4 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	4 m <sup>2</sup>

**Table (17): Lighting Analyses Room Schedule, Building GS, Whole Building Results - 3pm.**

Level	Name	Number	Area	Include In Daylighting	Automated Shades	3pm threshold results					
						within threshold		above threshold		below threshold	
						%	Area	%	Area	%	Area
Fourth Floor	Fourth Floor	162	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Fourth Floor	Fourth Floor	163	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Fourth Floor	Fourth Floor	164	2 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	2 m <sup>2</sup>
Fourth Floor	Fourth Floor	165	3 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	3 m <sup>2</sup>
Fourth Floor	Fourth Floor	166	5 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	5 m <sup>2</sup>
Fourth Floor	Fourth Floor	167	10 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	10 m <sup>2</sup>
Fourth Floor	Fourth Floor	168	9 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>
Roof Floor	Roof Floor	169	29 m <sup>2</sup>	Yes	No	0	0 m <sup>2</sup>	0	0 m <sup>2</sup>	100	29 m <sup>2</sup>

### Revit Photos



**Photo 1:** building (GS) Front side



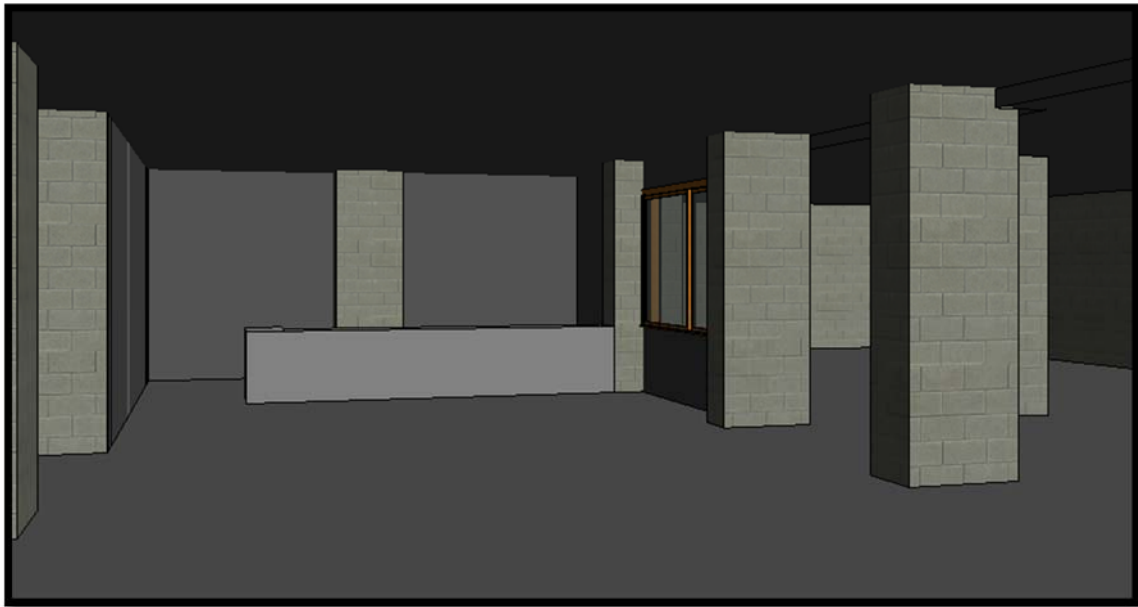
**Photo 2:** building (GS) north side view



**Photo 3:** building (GS) south side view



**Photo 4:** building (GS) internal shot (lecture rooms, basement)



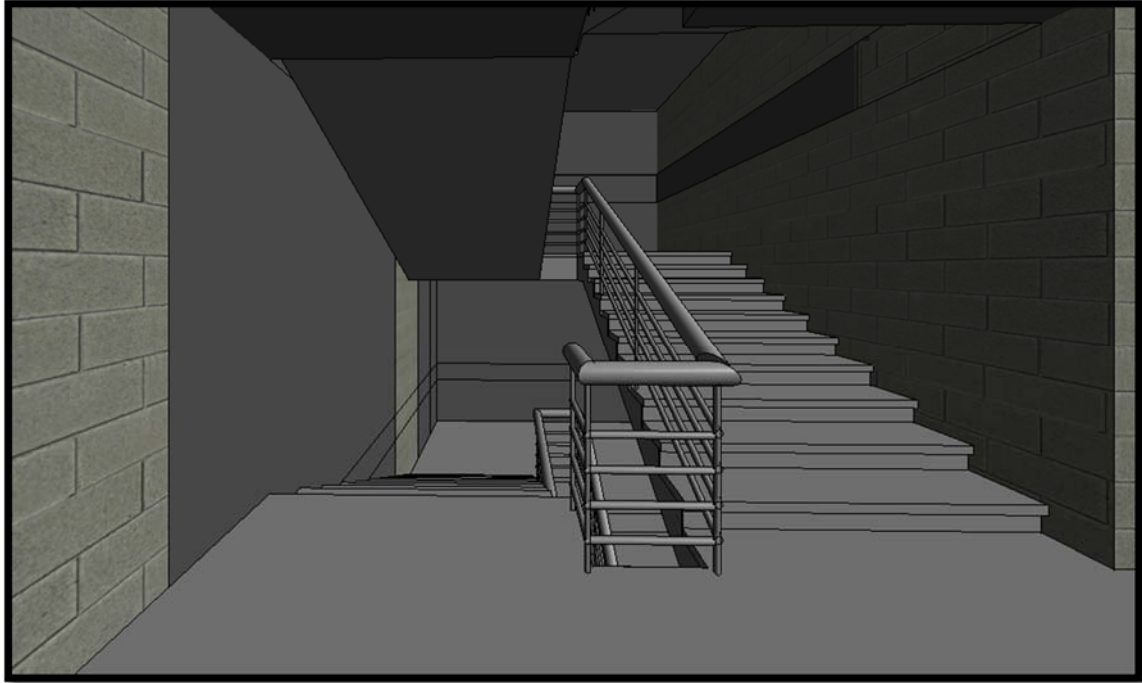
**Photo 5:** building (GS) internal shot(basement)



**Photo 6:** building (GS) internal shot (reception)



**Photo 7:** building (GS) internal shot (ground floor)



**Photo 8:** building (GS) internal shot (stairs)



**Photo 9:** building (GS) exterior shot



# **Arab Academy for Science, Technology & Maritime Transport (AASTMT)**

**College of Engineering and Technology (Cairo)  
Construction and Building Engineering Department**

**Master of Construction and Building Engineering**

## **Evaluation of the Arab Academy for Science, Technology & Maritime Transport (AASTMT) Building to be Oriented towards a Green Building**

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March, 2015

## الملخص:

تواجه البشرية هذه الأيام العديد من التحديات الكبيرة، أحدها هو النقص في الموارد الغير متجددة والذي يفرض الحاجة لإيجاد حلول خلاقية لتلبية الاحتياجات اليومية الأساسية وتوفير أكبر احتياطي لخدمة الأجيال المستقبلية. إضافة الى ذلك الاقتصاد العالمي أصبح مقيدا بتكاليف الطاقة ومدى توافرها والقوانين البيئية المرتبطة بها.

تسعى العديد من الدول وخصوصا الدول النامية مثل مصر الى دعم منشآت تزويد الطاقة وتوفير مقاييس لتحديد مسالة الاحتياجات. مع استمرار تحدي تغيير المناخ، هناك المزيد من الدول تطبق معايير لتخفيض استهلاك الطاقة وانبعاثات غازات الدفيئة. تم استخدام مباني الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري فرع القاهرة (A,B,GS) كحالة للدراسة. ركز البحث على تفحص بعض المجالات لإعادة تهيئه المباني لتكون أكثر ملائمة بيئيا. تشمل هذه المجالات على استهلاك الطاقة والتكاليف التشغيلية وانبعاثات غازات الدفيئة. من خلال تحليل البيانات المجمع من المباني تبين انه من الممكن تخفيض استهلاك الطاقه بنسبة 29% وينتج عن ذلك تخفيض التكاليف التشغيلية للمبنى وانبعاثات الغازات وبشكل أساسي غاز ثاني أكسيد الكربون بنسبة 28.97%، إضافة الى ان تطبيق ممارسات المباني الخضراء الموصى بها داخل المباني سيؤدي الى تحسين إنتاجية الموظفين.

تم توظيف برنامج ال (Revit) لعمل نموذج ثلاثي الابعاد للمباني واجراء عمليه تحليل للإضاءة الطبيعية لتحديد نسب الإضاءة الطبيعية داخل للمبنى من اجل زيادة الاعتماد عليها وتقليل الحاجة للإضاءة الصناعية وتخفيض التكاليف.