

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX60L-35KXW-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_14_M-60L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-60L-35K-XW-DO101-AR6BX-MWWF

[LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture

[OTHER] Matte White reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Xtra Wide Beam

[OTHER] 53 Deg Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, Bridgelux Vero 29

[OTHER] Dimmable driver tested at 100% output

[OTHER] Tested CCT: 3500K

[OTHER] CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01

[OTHER] This report prepared by Spectrum Lighting, scaled from 80L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4653
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.80
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.48 ft (Diameter)
Luminous Width (90-270)	0.48 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX60L-35KXW-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	29844	31825	35144
55	11560	11697	11252
65	12081	11768	11894
75	8970	9081	9663
85	3988	3234	4523

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0.0	6348.854	6348.854	6348.854	6348.854	6348.854	6348.854	6348.854	6348.854	6348.854	6348.854
2.5	6220.241	6260.072	6225.472	6246.805	6237.400	6033.277	6039.240	5980.526	6048.094	5982.382
5.0	6022.750	6026.336	6009.800	6088.666	6090.853	5667.470	5694.330	5628.020	5635.500	5632.954
7.5	5560.244	5646.394	5583.878	5647.767	5616.943	5277.362	5292.206	5224.881	5275.202	5235.569
10.0	5144.115	5194.447	5123.463	5178.553	5156.925	4886.318	4898.258	4876.032	4932.366	4898.936
12.5	4865.522	4886.846	4849.599	4900.349	4896.190	4692.292	4706.365	4676.972	4706.317	4684.633
15.0	4612.999	4649.764	4606.767	4641.663	4642.096	4505.469	4515.628	4487.169	4518.897	4485.231
17.5	4438.482	4463.374	4436.670	4474.334	4485.996	4341.726	4352.145	4322.675	4340.851	4316.066
20.0	4254.669	4301.939	4278.498	4316.142	4326.898	4178.868	4182.674	4119.026	4165.934	4099.136
22.5	4043.301	4074.073	4053.750	4114.807	4124.813	3842.956	3865.503	3807.391	3818.450	3786.062
25.0	3722.842	3813.763	3818.246	3909.068	3895.769	3500.733	3530.940	3378.113	3413.914	3323.576
27.5	3076.087	3239.485	3169.888	3287.331	3269.499	2760.776	2786.879	2627.315	2730.925	2562.730
30.0	2423.739	2510.695	2453.888	2624.019	2640.124	2005.590	2053.349	1948.830	1955.036	1893.793
32.5	1754.818	1890.590	1842.710	1974.092	1966.319	1542.746	1579.016	1469.702	1470.135	1409.797
35.0	1187.714	1323.546	1248.455	1325.475	1319.561	1090.539	1114.419	1056.636	1081.399	1011.024
37.5	919.484	974.385	957.497	1029.605	1048.875	854.958	878.629	824.047	823.929	782.374
40.0	676.145	730.753	716.197	768.956	783.782	626.846	645.747	611.116	609.430	579.095
42.5	506.533	546.069	542.018	586.778	598.602	470.245	484.255	451.404	452.893	426.849
45.0	355.105	390.154	378.668	412.267	418.166	316.240	325.689	309.955	315.505	295.353
47.5	257.030	278.955	274.119	301.360	303.598	228.027	235.773	218.379	224.760	205.261
50.0	174.824	189.404	178.916	196.797	193.665	142.077	148.625	144.474	149.279	137.951
52.5	139.595	143.066	141.266	152.138	149.880	121.792	123.543	118.391	118.644	116.450
55.0	111.577	117.808	112.895	113.327	108.596	103.884	99.299	98.191	102.817	100.382
57.5	104.705	105.176	104.494	103.596	101.992	97.520	94.617	94.054	94.339	95.150
60.0	98.216	98.655	99.265	96.642	95.480	91.551	89.885	88.861	88.266	89.758
62.5	92.839	92.693	91.667	90.913	90.197	84.598	84.022	80.818	83.222	84.044
65.0	85.910	87.004	83.687	85.305	84.584	77.613	77.942	72.840	78.520	76.701
67.5	74.496	75.694	72.715	75.316	74.767	66.142	67.467	65.039	68.103	66.137
70.0	62.416	61.833	61.305	64.909	64.714	54.705	56.692	56.201	55.936	55.287
72.5	49.037	49.601	50.508	52.791	53.492	45.103	44.123	45.453	43.923	44.032
75.0	39.065	38.018	39.550	41.070	42.083	34.644	32.833	34.137	32.481	33.830
77.5	31.129	28.242	28.150	30.184	30.444	22.700	23.249	22.607	23.296	24.511
80.0	19.770	18.694	19.322	19.760	20.053	13.837	14.478	12.836	14.503	17.696
82.5	11.483	10.457	11.193	11.305	12.965	7.711	7.519	5.693	7.493	8.089
85.0	5.848	4.900	4.743	5.224	6.633	3.500	2.730	2.311	3.536	2.909
87.5	2.367	1.958	1.724	1.434	2.076	0.881	0.681	1.009	1.278	0.899
90.0	0.534	0.215	0.405	0.462	0.787	0.337	0.442	0.419	0.436	0.418
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert.
Angles

Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	6348.854	6348.854	6348.854	6348.854	6348.854	6348.854	6348.854
2.5	6025.127	5973.335	5995.631	6193.350	6190.637	6237.632	6220.241
5.0	5681.017	5593.367	5595.320	5999.403	5977.769	6011.319	6022.750
7.5	5294.391	5229.029	5236.475	5557.283	5548.586	5631.383	5560.244
10.0	4932.052	4879.343	4880.434	5122.255	5111.083	5196.294	5144.115
12.5	4715.526	4672.760	4670.345	4862.527	4849.713	4897.355	4865.522
15.0	4505.302	4468.592	4469.829	4605.868	4595.440	4647.724	4612.999
17.5	4332.378	4287.514	4294.515	4428.642	4417.300	4457.265	4438.482
20.0	4135.769	4086.436	4120.904	4248.949	4242.082	4288.042	4254.669
22.5	3797.059	3690.186	3698.792	4008.413	3982.504	4041.832	4043.301
25.0	3397.713	3259.434	3260.405	3750.032	3719.850	3767.753	3722.842
27.5	2639.764	2498.939	2511.284	3030.762	3002.074	3156.016	3076.087
30.0	1924.073	1771.011	1741.216	2316.115	2266.872	2423.152	2423.739
32.5	1461.752	1360.595	1338.718	1715.255	1684.251	1814.852	1754.818
35.0	1032.697	967.845	960.259	1129.048	1107.182	1250.830	1187.714
37.5	800.255	743.765	737.446	887.205	862.421	925.541	919.484
40.0	579.909	528.401	524.500	648.830	630.356	685.857	676.145
42.5	432.043	394.587	392.133	495.642	482.445	515.508	506.533
45.0	293.600	266.616	265.028	345.052	337.588	369.795	355.105
47.5	210.811	194.379	195.638	255.377	249.097	269.038	257.030
50.0	137.225	127.833	129.900	168.017	162.754	184.393	174.824
52.5	117.225	114.479	115.819	137.398	136.125	143.731	139.595
55.0	99.466	101.960	105.106	107.810	111.658	118.691	111.577
57.5	94.929	97.406	98.499	102.349	106.046	108.220	104.705
60.0	90.233	92.529	92.151	96.894	101.080	102.877	98.216
62.5	84.610	84.643	86.110	91.557	94.277	96.867	92.839
65.0	78.418	76.542	80.090	85.992	87.408	90.619	85.910

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX60L-35KXW-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	68.976	66.577	68.277	75.818	75.990	79.191	74.496
70.0	58.876	56.295	56.136	65.384	64.309	66.055	62.416
72.5	46.679	44.689	43.768	53.414	50.837	53.107	49.037
75.0	35.372	33.585	32.497	41.683	38.739	40.839	39.065
77.5	24.912	23.043	23.311	30.276	29.020	31.449	31.129
80.0	17.684	16.169	15.233	21.683	20.579	20.840	19.770
82.5	9.954	8.210	8.080	11.936	12.930	11.338	11.483
85.0	4.129	2.668	3.035	5.078	5.844	5.458	5.848
87.5	1.340	0.989	1.287	1.758	1.642	1.952	2.367
90.0	0.394	0.521	0.520	0.465	0.304	0.530	0.534
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX60L-35KXW-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1819.06	N.A.	39.10
0-30	3366.09	N.A.	72.30
0-40	4144.11	N.A.	89.10
0-60	4527.52	N.A.	97.30
0-80	4646.06	N.A.	99.90
0-90	4652.75	N.A.	100.00
10-90	4122.26	N.A.	88.60
20-40	2325.05	N.A.	50.00
20-50	2604.65	N.A.	56.00
40-70	462.29	N.A.	9.90
60-80	118.54	N.A.	2.50
70-80	39.67	N.A.	0.90
80-90	6.68	N.A.	0.10
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4652.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	530.48
10-20	1288.57
20-30	1547.03
30-40	778.03
40-50	279.59
50-60	103.82
60-70	78.88
70-80	39.67
80-90	6.68
90-100	0.06
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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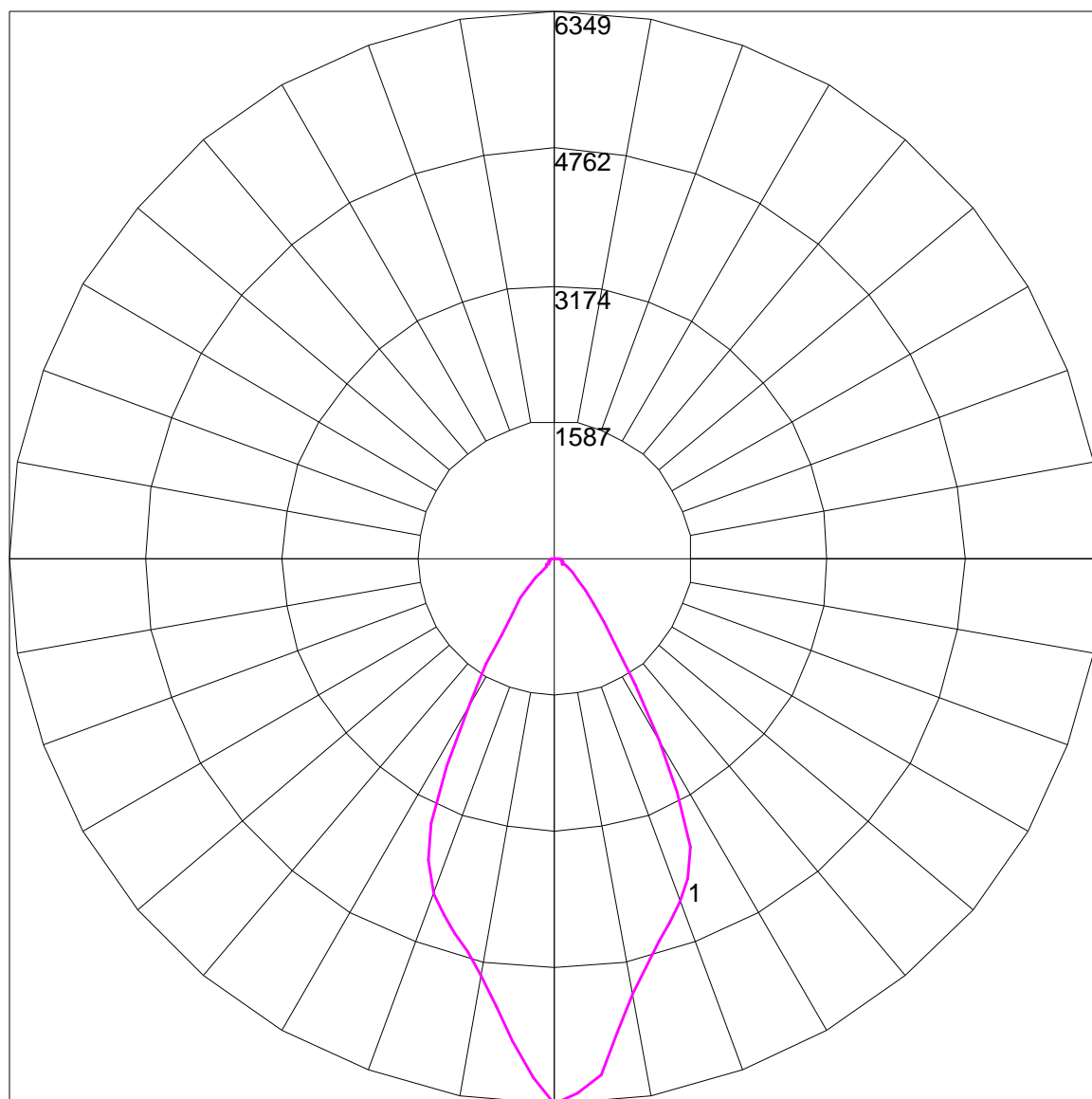
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80
4	97	89	83	79	95	88	83	78	86	81	78	84	80	77	82	78	76	74
5	92	83	77	73	90	82	77	73	80	76	72	79	75	71	77	74	71	69
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65
7	83	74	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	51

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX60L-35KXW-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 6348.854 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)