

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_15 ~ SGE8BX60L-35KWD-DO101-AR8BXMWWF.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] SP-00621_15_M-60L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-60L35K-WD-DO101-AR8BX-MWWF

[LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture

[OTHER] Matte White reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Wide Beam

[OTHER] 60.5 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	4893
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	44
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.96
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	0.90
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.63 ft (Diameter)
Luminous Width (90-270)	0.63 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_15 ~ SGE8BX60L-35KWD-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8862	9410	8556
55	1285	1161	1240
65	880	766	831
75	476	369	440
85	437	333	362

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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	5791.163	5791.163	5791.163	5791.163	5791.163	5791.163	5791.163	5791.163	5791.163	5791.163
2.5	5747.216	5759.012	5750.369	5763.124	5750.130	5704.045	5737.996	5743.424	5757.293	5739.387
5.0	5676.423	5696.881	5682.833	5693.118	5687.527	5613.687	5660.133	5671.204	5685.096	5667.578
7.5	5546.927	5576.894	5551.986	5569.615	5549.401	5458.150	5521.489	5532.731	5562.030	5535.139
10.0	5402.998	5437.773	5406.399	5418.658	5400.195	5293.708	5364.219	5382.217	5414.058	5388.040
12.5	5223.193	5260.414	5217.066	5233.941	5202.433	5081.767	5167.817	5193.895	5223.947	5184.673
15.0	5032.559	5069.612	5018.018	5030.983	4998.254	4867.790	4958.395	4996.634	5012.100	4971.712
17.5	4813.419	4853.808	4788.279	4804.148	4763.646	4641.928	4736.788	4769.431	4779.706	4719.171
20.0	4580.768	4628.675	4558.175	4563.537	4529.320	4412.764	4510.873	4527.939	4536.156	4455.423
22.5	4310.381	4371.597	4326.841	4329.899	4296.487	4161.735	4243.114	4234.224	4225.474	4141.800
25.0	4009.494	4101.671	4069.514	4100.490	4049.864	3885.738	3959.374	3903.279	3875.868	3798.029
27.5	3616.400	3730.189	3716.548	3770.188	3723.516	3425.895	3503.648	3426.383	3411.471	3305.354
30.0	3154.552	3315.505	3287.689	3375.630	3340.196	2921.733	2978.361	2882.368	2877.129	2765.507
32.5	2471.299	2646.063	2559.176	2721.810	2583.428	2051.377	2214.559	2055.220	2157.255	1971.927
35.0	1784.763	1860.263	1836.598	1892.120	1834.107	1219.916	1347.032	1283.847	1316.896	1220.357
37.5	1086.713	1219.708	1139.823	1224.692	1139.020	768.398	811.417	772.646	760.293	723.313
40.0	499.915	649.133	533.801	672.750	501.470	344.060	428.212	326.555	397.101	277.953
42.5	331.018	360.945	354.491	355.841	333.567	227.058	234.309	210.151	196.054	178.297
45.0	181.641	218.388	192.883	216.882	175.377	115.034	132.091	105.134	110.959	86.597
47.5	112.771	129.019	121.672	123.633	110.744	73.288	73.906	64.718	60.701	56.147
50.0	53.384	68.525	57.995	66.664	50.187	33.323	38.546	28.834	36.944	28.353
52.5	36.177	36.969	37.456	34.363	35.007	24.247	22.304	21.209	23.039	23.592
55.0	21.361	21.935	19.301	22.580	20.620	15.436	16.492	14.323	16.988	19.130
57.5	18.067	14.657	16.158	15.711	17.220	13.057	13.032	12.713	13.655	17.618
60.0	14.957	12.104	13.169	13.183	13.907	10.703	10.941	11.169	12.627	15.987
62.5	12.836	10.933	11.296	11.413	12.052	9.226	10.274	10.151	11.691	12.918
65.0	10.775	10.646	9.385	10.343	10.181	7.740	10.480	9.032	10.838	9.951
67.5	9.034	9.065	7.196	8.783	8.022	5.869	8.919	7.076	9.140	8.280
70.0	7.234	6.671	5.171	6.783	5.980	4.098	6.315	5.239	6.715	6.572
72.5	5.242	5.552	3.790	4.729	4.647	3.067	4.413	3.903	4.688	4.674
75.0	3.574	4.757	2.766	2.652	3.298	2.123	2.779	2.792	2.870	3.431
77.5	2.222	2.570	2.125	2.054	1.931	1.307	1.558	1.936	2.319	3.007
80.0	1.294	1.754	1.576	1.459	1.448	0.943	1.163	1.335	1.572	1.716
82.5	1.014	1.596	1.010	0.939	1.235	0.793	1.046	1.043	0.917	1.028
85.0	1.104	0.970	0.842	0.635	0.915	0.686	0.621	0.704	0.820	0.876
87.5	0.876	0.548	0.558	0.423	0.576	0.519	0.446	0.499	0.502	0.779
90.0	0.504	0.143	0.656	0.169	0.183	0.320	0.143	0.344	0.189	0.584
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	5791.163	5791.163	5791.163	5791.163	5791.163	5791.163	5791.163
2.5	5752.929	5739.048	5742.070	5748.113	5739.239	5751.431	5747.216
5.0	5677.654	5660.641	5664.680	5690.697	5672.990	5676.846	5676.423
7.5	5552.520	5528.355	5533.289	5575.725	5540.344	5550.857	5546.927
10.0	5406.638	5376.985	5386.300	5446.704	5396.965	5404.542	5402.998
12.5	5215.180	5180.513	5192.447	5272.147	5209.621	5223.507	5223.193
15.0	5003.680	4964.670	4983.860	5085.389	5012.146	5027.943	5032.559
17.5	4759.600	4700.404	4735.805	4844.657	4769.933	4802.726	4813.419
20.0	4500.153	4430.399	4474.537	4588.442	4523.427	4564.399	4580.768
22.5	4193.392	4145.197	4186.203	4321.292	4255.895	4290.871	4310.381
25.0	3863.098	3809.413	3888.064	4050.724	3966.639	4000.650	4009.494
27.5	3389.989	3328.932	3416.962	3659.550	3561.548	3614.420	3616.400
30.0	2842.068	2774.079	2879.423	3228.253	3116.887	3180.193	3154.552
32.5	2121.541	1992.997	2135.315	2583.680	2441.343	2536.055	2471.299
35.0	1304.406	1269.471	1307.190	1862.321	1763.970	1779.681	1784.763
37.5	763.992	736.141	783.311	1207.567	1074.486	1148.697	1086.713
40.0	386.425	296.786	392.465	578.247	449.225	588.248	499.915
42.5	190.401	189.255	207.640	303.959	296.706	303.547	331.018
45.0	108.299	96.997	117.922	173.244	154.351	181.922	181.641
47.5	61.676	62.501	68.903	101.217	99.086	106.834	112.771
50.0	38.429	33.416	40.013	54.709	47.719	61.091	53.384
52.5	25.791	26.805	25.620	33.336	34.415	36.449	36.177
55.0	20.492	20.822	18.778	23.504	21.982	25.776	21.361
57.5	16.871	17.656	15.714	17.994	19.394	19.011	18.067
60.0	14.486	14.639	14.752	14.609	16.839	15.002	14.957
62.5	12.545	12.372	12.676	13.195	14.737	12.598	12.836
65.0	10.946	10.043	9.948	12.802	12.561	11.383	10.775

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_15 ~ SGE8BX60L-35KWD-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	8.332	7.397	7.336	10.142	9.269	9.949	9.034
70.0	4.952	5.036	4.790	6.344	6.383	8.361	7.234
72.5	3.528	3.555	3.398	4.218	5.768	6.268	5.242
75.0	2.925	2.421	2.434	2.654	4.331	4.008	3.574
77.5	2.411	1.609	2.155	1.968	1.831	2.403	2.222
80.0	1.677	0.967	1.531	1.474	1.821	1.649	1.294
82.5	1.039	0.717	0.939	1.231	1.331	1.306	1.014
85.0	0.855	0.758	0.803	1.018	0.644	0.679	1.104
87.5	0.657	0.334	0.617	0.444	0.400	0.616	0.876
90.0	0.134	0.336	0.413	0.170	0.406	0.086	0.504
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-00621_15 ~ SGE8BX60L-35KWD-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1932.42	N.A.	39.50
0-30	3710.86	N.A.	75.80
0-40	4714.95	N.A.	96.40
0-60	4878.44	N.A.	99.70
0-80	4892.00	N.A.	100.00
0-90	4892.91	N.A.	100.00
10-90	4360.6	N.A.	89.10
20-40	2782.53	N.A.	56.90
20-50	2924.79	N.A.	59.80
40-70	173.53	N.A.	3.50
60-80	13.56	N.A.	0.30
70-80	3.53	N.A.	0.10
80-90	0.90	N.A.	0.00
90-110	0.04	N.A.	0.00
90-120	0.04	N.A.	0.00
90-130	0.04	N.A.	0.00
90-150	0.04	N.A.	0.00
90-180	0.04	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4892.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	532.31
10-20	1400.11
20-30	1778.44
30-40	1004.08
40-50	142.26
50-60	21.23
60-70	10.03
70-80	3.53
80-90	0.90
90-100	0.04
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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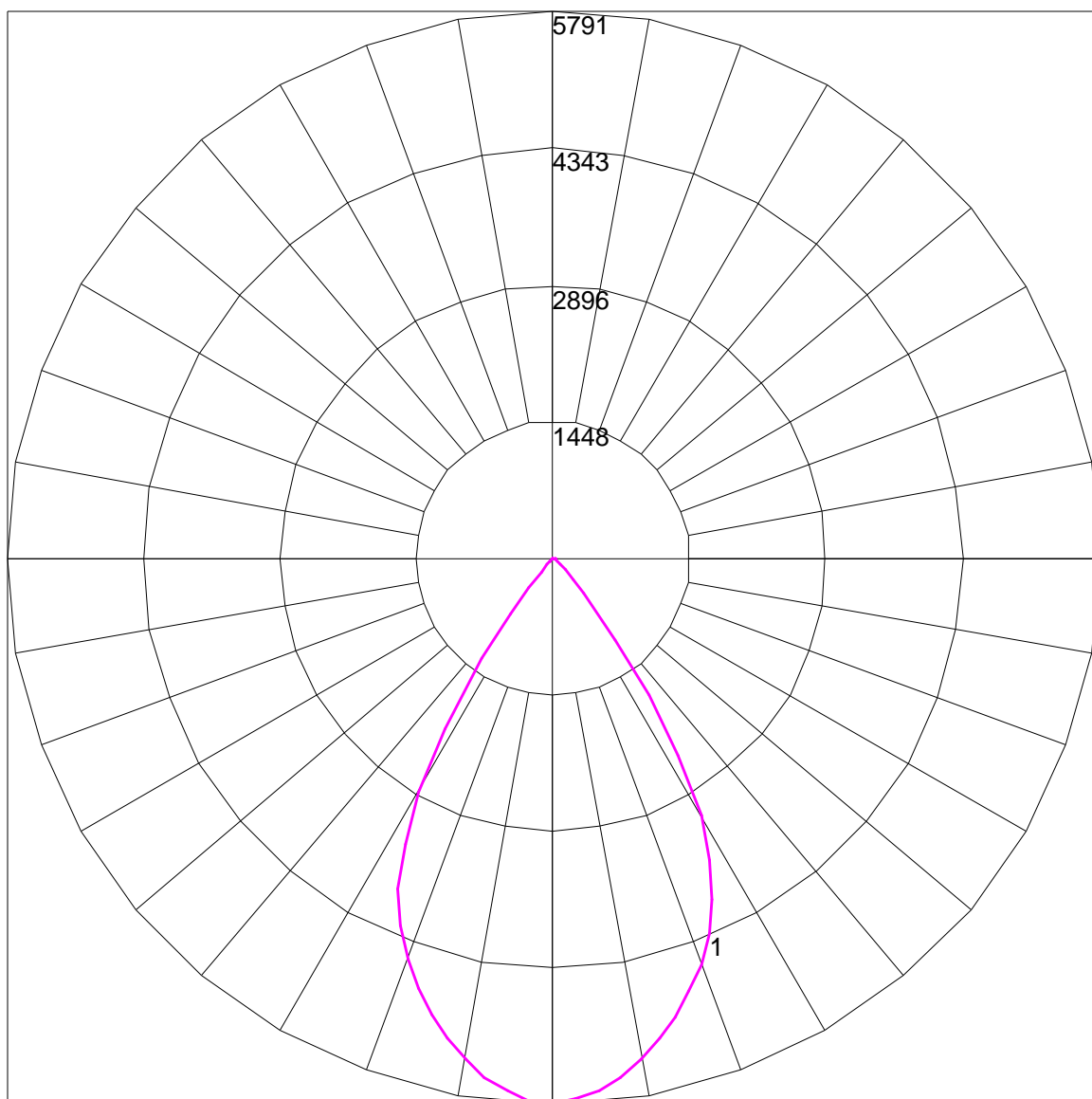
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	70	77	72	69	75	72	69	67
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59
9	77	67	62	58	76	67	61	58	66	61	58	65	61	57	64	60	57	56
10	73	64	58	55	72	63	58	54	63	58	54	62	57	54	61	57	54	53

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_15 ~ SGE8BX60L-35KWD-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 5791.163 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)