

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_15 ~ SGE8BX80L-35KWD-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00621_15
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/7/2018
[UPDATE] 7/13/2018
[LUMCAT] SGE8BX-80L35K-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6438
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	60
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 ~ SGE8BX80L-35KWD-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	11660	12382	11258
55	1691	1527	1632
65	1157	1008	1094
75	627	485	578
85	575	439	477

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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	7619.952	7619.952	7619.952	7619.952	7619.952	7619.952	7619.952	7619.952	7619.952	7619.952
2.5	7562.127	7577.648	7566.275	7583.058	7565.960	7505.322	7549.995	7557.137	7575.385	7551.825
5.0	7468.978	7495.896	7477.412	7490.945	7483.588	7386.431	7447.543	7462.110	7480.389	7457.340
7.5	7298.588	7338.018	7305.245	7328.441	7301.843	7181.777	7265.117	7279.909	7318.460	7283.078
10.0	7109.208	7154.965	7113.683	7129.813	7105.520	6965.405	7058.183	7081.864	7123.760	7089.526
12.5	6872.622	6921.598	6864.560	6886.764	6845.307	6686.536	6799.759	6834.073	6873.615	6821.938
15.0	6621.788	6670.542	6602.655	6619.714	6576.650	6404.987	6524.204	6574.518	6594.868	6541.727
17.5	6333.446	6386.589	6300.367	6321.247	6267.955	6107.800	6232.616	6275.567	6289.087	6209.436
20.0	6027.326	6090.362	5997.599	6004.654	5959.631	5806.269	5935.359	5957.814	5968.626	5862.399
22.5	5671.554	5752.101	5693.212	5697.236	5653.272	5475.967	5583.045	5571.348	5559.834	5449.737
25.0	5275.650	5396.935	5354.624	5395.382	5328.768	5112.813	5209.703	5135.894	5099.827	4997.407
27.5	4758.421	4908.143	4890.195	4960.774	4899.363	4507.756	4610.063	4508.399	4488.778	4349.150
30.0	4150.726	4362.507	4325.906	4441.618	4394.995	3844.385	3918.896	3792.590	3785.696	3638.825
32.5	3251.709	3481.662	3367.337	3581.329	3399.247	2699.180	2913.894	2704.237	2838.493	2594.641
35.0	2348.372	2447.714	2416.577	2489.631	2413.299	1605.152	1772.411	1689.273	1732.758	1605.733
37.5	1429.886	1604.879	1499.767	1611.437	1498.711	1011.050	1067.654	1016.639	1000.386	951.728
40.0	657.783	854.122	702.370	885.197	659.829	452.711	563.437	429.677	522.501	365.727
42.5	435.550	474.928	466.435	468.212	438.904	298.761	308.301	276.515	257.966	234.601
45.0	239.001	287.352	253.793	285.371	230.759	151.361	173.804	138.334	145.999	113.944
47.5	148.383	169.762	160.095	162.675	145.716	96.431	97.245	85.155	79.870	73.878
50.0	70.242	90.165	76.309	87.716	66.036	43.846	50.719	37.939	48.611	37.306
52.5	47.601	48.643	49.284	45.214	46.062	31.904	29.347	27.906	30.314	31.042
55.0	28.107	28.862	25.396	29.711	27.131	20.310	21.700	18.846	22.352	25.171
57.5	23.772	19.286	21.260	20.672	22.658	17.180	17.147	16.727	17.967	23.182
60.0	19.680	15.926	17.327	17.346	18.299	14.083	14.396	14.696	16.614	21.036
62.5	16.890	14.385	14.863	15.017	15.858	12.140	13.519	13.356	15.383	16.998
65.0	14.177	14.008	12.349	13.609	13.396	10.184	13.789	11.884	14.260	13.094
67.5	11.887	11.927	9.469	11.557	10.555	7.723	11.736	9.310	12.026	10.895
70.0	9.519	8.777	6.804	8.925	7.869	5.392	8.309	6.893	8.836	8.648
72.5	6.897	7.305	4.987	6.223	6.114	4.036	5.807	5.135	6.169	6.150
75.0	4.703	6.259	3.639	3.490	4.340	2.794	3.656	3.674	3.776	4.514
77.5	2.924	3.381	2.796	2.703	2.541	1.720	2.050	2.547	3.051	3.957
80.0	1.703	2.308	2.074	1.920	1.905	1.241	1.530	1.756	2.069	2.258
82.5	1.334	2.100	1.329	1.236	1.625	1.043	1.376	1.373	1.207	1.352
85.0	1.452	1.276	1.108	0.835	1.204	0.903	0.817	0.926	1.079	1.153
87.5	1.152	0.721	0.734	0.557	0.758	0.683	0.587	0.657	0.661	1.025
90.0	0.663	0.188	0.863	0.222	0.241	0.421	0.188	0.452	0.249	0.769
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	7619.952	7619.952	7619.952	7619.952	7619.952	7619.952	7619.952
2.5	7569.643	7551.379	7555.355	7563.307	7551.631	7567.672	7562.127
5.0	7470.598	7448.212	7453.526	7487.759	7464.460	7469.534	7468.978
7.5	7305.947	7274.152	7280.643	7336.480	7289.927	7303.759	7298.588
10.0	7113.998	7074.980	7087.237	7166.716	7101.270	7111.240	7109.208
12.5	6862.079	6816.465	6832.167	6937.035	6854.764	6873.035	6872.622
15.0	6583.789	6532.461	6557.710	6691.301	6594.929	6615.715	6621.788
17.5	6262.632	6184.742	6231.322	6374.549	6276.228	6319.377	6333.446
20.0	5921.254	5829.472	5887.549	6037.424	5951.878	6005.788	6027.326
22.5	5517.621	5454.206	5508.162	5685.910	5599.862	5645.883	5671.554
25.0	5083.024	5012.385	5115.874	5329.900	5219.262	5264.013	5275.650
27.5	4460.512	4380.174	4496.003	4815.197	4686.247	4755.816	4758.421
30.0	3739.563	3650.104	3788.714	4247.701	4101.167	4184.465	4150.726
32.5	2791.502	2622.364	2809.625	3399.579	3212.293	3336.914	3251.709
35.0	1716.324	1670.356	1719.987	2450.423	2321.013	2341.685	2348.372
37.5	1005.253	968.606	1030.673	1588.904	1413.798	1511.443	1429.886
40.0	508.454	390.508	516.401	760.851	591.085	774.010	657.783
42.5	250.528	249.020	273.210	399.946	390.403	399.404	435.550
45.0	142.499	127.627	155.161	227.952	203.093	239.371	239.001
47.5	81.153	82.238	90.662	133.180	130.376	140.571	148.383
50.0	50.564	43.968	52.649	71.985	62.788	80.383	70.242
52.5	33.936	35.270	33.710	43.863	45.283	47.959	47.601
55.0	26.963	27.398	24.708	30.926	28.924	33.916	28.107
57.5	22.199	23.231	20.676	23.676	25.519	25.015	23.772
60.0	19.060	19.262	19.411	19.223	22.156	19.739	19.680
62.5	16.506	16.279	16.679	17.362	19.391	16.576	16.890
65.0	14.403	13.215	13.090	16.845	16.528	14.977	14.177

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_15 ~ SGE8BX80L-35KWD-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	10.963	9.733	9.653	13.345	12.196	13.091	11.887
70.0	6.516	6.626	6.302	8.348	8.399	11.001	9.519
72.5	4.642	4.678	4.471	5.550	7.590	8.248	6.897
75.0	3.849	3.185	3.203	3.492	5.699	5.274	4.703
77.5	3.173	2.117	2.836	2.590	2.409	3.162	2.924
80.0	2.206	1.273	2.014	1.940	2.396	2.170	1.703
82.5	1.367	0.944	1.235	1.620	1.751	1.719	1.334
85.0	1.125	0.998	1.056	1.339	0.847	0.893	1.452
87.5	0.865	0.440	0.812	0.584	0.526	0.811	1.152
90.0	0.176	0.442	0.544	0.224	0.534	0.113	0.663
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 ~ SGE8BX80L-35KWD-DO101-AR8BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2542.66	N.A.	39.50
0-30	4882.72	N.A.	75.80
0-40	6203.88	N.A.	96.40
0-60	6419.01	N.A.	99.70
0-80	6436.85	N.A.	100.00
0-90	6438.03	N.A.	100.00
10-90	5737.63	N.A.	89.10
20-40	3661.22	N.A.	56.90
20-50	3848.41	N.A.	59.80
40-70	228.32	N.A.	3.50
60-80	17.84	N.A.	0.30
70-80	4.65	N.A.	0.10
80-90	1.19	N.A.	0.00
90-110	0.05	N.A.	0.00
90-120	0.05	N.A.	0.00
90-130	0.05	N.A.	0.00
90-150	0.05	N.A.	0.00
90-180	0.05	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6438.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	700.41
10-20	1842.26
20-30	2340.06
30-40	1321.16
40-50	187.19
50-60	27.94
60-70	13.20
70-80	4.65
80-90	1.19
90-100	0.05
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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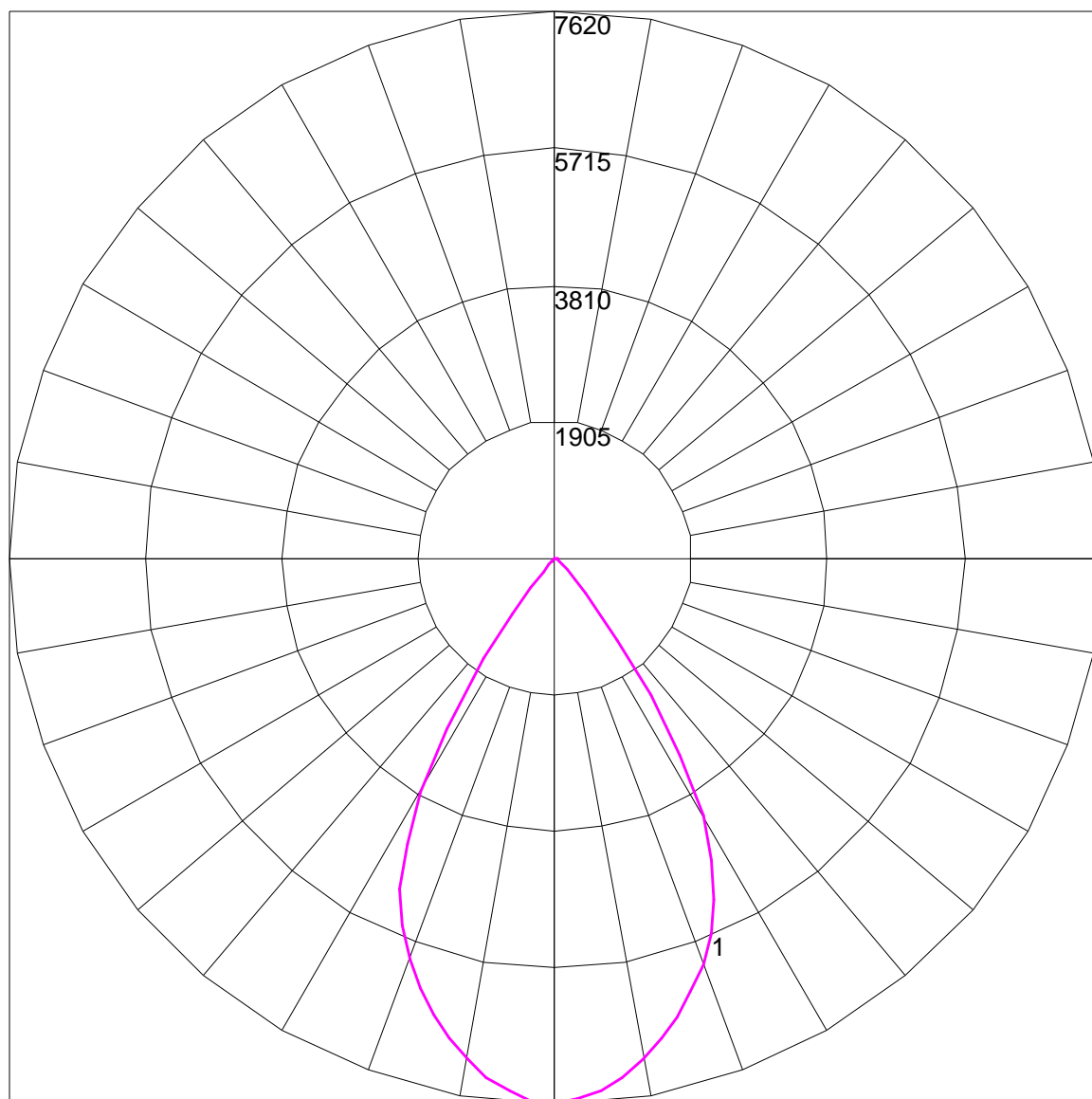
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 ~ SGE8BX80L-35KWD-DO101-AR8BXMWWF.IES

POLAR GRAPH



Maximum Candela = 7619.952 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)