

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX80L-35KXW-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00625_14
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/12/2018
[LUMCAT] SGE6BX-80L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6122
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	60
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 ~ SGE6BX80L-35KXW-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	39269	41875	46242
55	15211	15391	14805
65	15896	15484	15650
75	11802	11949	12714
85	5247	4255	5951

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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	8353.755	8353.755	8353.755	8353.755	8353.755	8353.755	8353.755	8353.755	8353.755	8353.755
2.5	8184.528	8236.937	8191.411	8219.481	8207.106	7938.522	7946.368	7869.113	7958.018	7871.555
5.0	7924.671	7929.390	7907.632	8011.403	8014.280	7457.198	7492.539	7405.289	7415.132	7411.782
7.5	7316.110	7429.466	7347.208	7431.272	7390.715	6943.897	6963.429	6874.843	6941.056	6888.907
10.0	6768.573	6834.799	6741.399	6813.886	6785.428	6429.366	6445.076	6415.832	6489.956	6445.969
12.5	6402.003	6430.061	6381.051	6447.828	6442.355	6174.069	6192.586	6153.911	6192.522	6163.991
15.0	6069.736	6118.111	6061.535	6107.452	6108.021	5928.249	5941.616	5904.170	5945.917	5901.620
17.5	5840.108	5872.860	5837.724	5887.281	5902.627	5712.797	5726.507	5687.730	5711.646	5679.034
20.0	5598.249	5660.446	5629.603	5679.134	5693.287	5498.510	5503.518	5419.771	5481.492	5393.600
22.5	5320.133	5360.622	5333.881	5414.220	5427.385	5056.521	5086.188	5009.725	5024.277	4981.660
25.0	4898.477	5018.109	5024.008	5143.510	5126.012	4606.228	4645.974	4444.886	4491.992	4373.126
27.5	4047.483	4262.480	4170.905	4325.436	4301.973	3632.600	3666.946	3456.993	3593.322	3372.013
30.0	3189.130	3303.546	3228.800	3452.657	3473.848	2638.934	2701.775	2564.250	2572.416	2491.833
32.5	2308.971	2487.619	2424.619	2597.490	2587.262	2029.929	2077.652	1933.818	1934.388	1854.996
35.0	1562.782	1741.508	1642.704	1744.046	1736.265	1434.920	1466.341	1390.310	1422.893	1330.295
37.5	1209.847	1282.085	1259.864	1354.744	1380.099	1124.945	1156.091	1084.273	1084.117	1029.439
40.0	889.665	961.517	942.365	1011.784	1031.292	824.798	849.667	804.100	801.881	761.967
42.5	666.491	718.512	713.182	772.076	787.634	618.744	637.177	593.952	595.912	561.644
45.0	467.243	513.360	498.248	542.456	550.218	416.105	428.538	407.835	415.138	388.622
47.5	338.197	367.046	360.683	396.526	399.471	300.036	310.228	287.341	295.737	270.080
50.0	230.031	249.216	235.416	258.944	254.822	186.944	195.559	190.097	196.420	181.515
52.5	183.678	188.245	185.876	200.182	197.211	160.253	162.557	155.777	156.110	153.224
55.0	146.812	155.010	148.546	149.115	142.890	136.690	130.656	129.199	135.285	132.082
57.5	137.770	138.390	137.492	136.311	134.200	128.316	124.496	123.755	124.130	125.198
60.0	129.232	129.809	130.612	127.160	125.631	120.462	118.270	116.923	116.139	118.102
62.5	122.157	121.964	120.614	119.623	118.680	111.313	110.555	106.339	109.503	110.584
65.0	113.040	114.479	110.114	112.244	111.295	102.122	102.555	95.842	103.316	100.922
67.5	98.021	99.597	95.677	99.100	98.378	87.029	88.773	85.578	89.609	87.022
70.0	82.126	81.359	80.664	85.407	85.150	71.980	74.595	73.949	73.600	72.746
72.5	64.522	65.265	66.458	69.462	70.384	59.346	58.056	59.806	57.794	57.937
75.0	51.401	50.024	52.039	54.039	55.372	45.584	43.201	44.917	42.738	44.513
77.5	40.959	37.160	37.040	39.716	40.058	29.868	30.591	29.746	30.652	32.251
80.0	26.013	24.597	25.424	26.000	26.385	18.206	19.050	16.890	19.083	23.284
82.5	15.109	13.759	14.727	14.875	17.059	10.146	9.893	7.491	9.859	10.643
85.0	7.695	6.447	6.241	6.874	8.728	4.605	3.592	3.041	4.652	3.828
87.5	3.115	2.576	2.268	1.887	2.731	1.159	0.896	1.328	1.681	1.183
90.0	0.702	0.283	0.533	0.608	1.035	0.443	0.581	0.551	0.574	0.550
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	8353.755	8353.755	8353.755	8353.755	8353.755	8353.755	8353.755
2.5	7927.799	7859.651	7888.988	8149.145	8145.575	8207.411	8184.528
5.0	7475.022	7359.694	7362.263	7893.951	7865.485	7909.631	7924.671
7.5	6966.304	6880.302	6890.099	7312.214	7300.771	7409.715	7316.110
10.0	6489.542	6420.188	6421.624	6739.809	6725.109	6837.229	6768.573
12.5	6204.639	6148.369	6145.191	6398.062	6381.202	6443.888	6402.003
15.0	5928.029	5879.727	5881.354	6060.353	6046.632	6115.426	6069.736
17.5	5700.497	5641.466	5650.678	5827.160	5812.237	5864.822	5840.108
20.0	5441.801	5376.890	5422.242	5590.722	5581.687	5642.160	5598.249
22.5	4996.130	4855.508	4866.831	5274.228	5240.137	5318.200	5320.133
25.0	4470.675	4288.729	4290.006	4934.253	4894.539	4957.570	4898.477
27.5	3473.374	3288.078	3304.321	3987.845	3950.098	4152.653	4047.483
30.0	2531.675	2330.278	2291.074	3047.520	2982.727	3188.358	3189.130
32.5	1923.358	1790.257	1761.471	2256.914	2216.120	2387.963	2308.971
35.0	1358.812	1273.480	1263.499	1485.589	1456.818	1645.829	1562.782
37.5	1052.967	978.638	970.324	1167.375	1134.764	1217.817	1209.847
40.0	763.038	695.265	690.131	853.724	829.416	902.443	889.665
42.5	568.478	519.194	515.964	652.161	634.796	678.300	666.491
45.0	386.316	350.811	348.721	454.016	444.195	486.573	467.243
47.5	277.383	255.762	257.418	336.022	327.759	353.997	338.197
50.0	180.559	168.201	170.921	221.075	214.150	242.623	230.031
52.5	154.244	150.630	152.393	180.787	179.112	189.120	183.678
55.0	130.876	134.158	138.298	141.855	146.919	156.172	146.812
57.5	124.907	128.166	129.604	134.670	139.534	142.395	137.770
60.0	118.728	121.749	121.251	127.492	133.000	135.365	129.232
62.5	111.329	111.372	113.303	120.470	124.049	127.456	122.157
65.0	103.181	100.713	105.382	113.148	115.010	119.236	113.040

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX80L-35KXW-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	90.758	87.601	89.838	99.760	99.987	104.199	98.021
70.0	77.469	74.072	73.863	86.032	84.617	86.915	82.126
72.5	61.420	58.801	57.589	70.281	66.891	69.878	64.522
75.0	46.542	44.191	42.759	54.846	50.973	53.736	51.401
77.5	32.779	30.320	30.672	39.837	38.184	41.380	40.959
80.0	23.269	21.275	20.043	28.530	27.077	27.421	26.013
82.5	13.098	10.802	10.631	15.705	17.013	14.918	15.109
85.0	5.433	3.510	3.993	6.681	7.689	7.182	7.695
87.5	1.763	1.301	1.694	2.313	2.161	2.568	3.115
90.0	0.519	0.686	0.684	0.612	0.400	0.698	0.702
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 ~ SGE6BX80L-35KXW-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2393.5	N.A.	39.10
0-30	4429.06	N.A.	72.30
0-40	5452.78	N.A.	89.10
0-60	5957.26	N.A.	97.30
0-80	6113.24	N.A.	99.90
0-90	6122.04	N.A.	100.00
10-90	5424.03	N.A.	88.60
20-40	3059.28	N.A.	50.00
20-50	3427.17	N.A.	56.00
40-70	608.27	N.A.	9.90
60-80	155.98	N.A.	2.50
70-80	52.19	N.A.	0.90
80-90	8.79	N.A.	0.10
90-110	0.08	N.A.	0.00
90-120	0.08	N.A.	0.00
90-130	0.08	N.A.	0.00
90-150	0.08	N.A.	0.00
90-180	0.08	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6122.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	698.00
10-20	1695.49
20-30	2035.56
30-40	1023.72
40-50	367.88
50-60	136.60
60-70	103.79
70-80	52.19
80-90	8.79
90-100	0.08
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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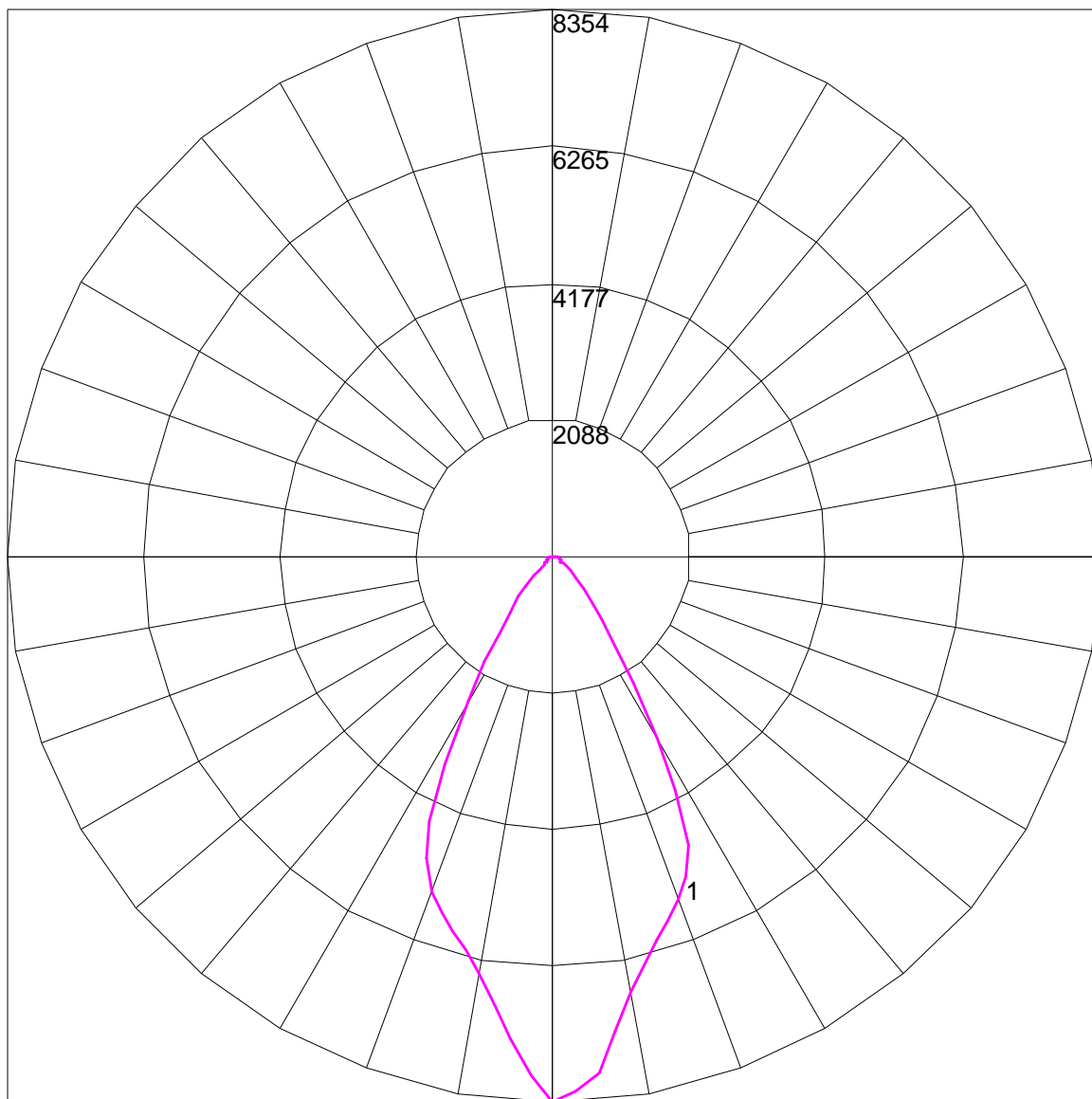
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	87	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	81	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	68	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	53	71	62	56	52	61	56	52	60	55	52	59	55	52	51

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_14 ~ SGE6BX80L-35KXW-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 8353.755 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)