

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX70L-35KWD-DO101-AR6BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00625_12_M-70L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/7/2018

[UPDATE] 7/20/2018

[LUMCAT] SGE6BX-70L-35K-WD-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, Wide Beam

[OTHER] 48.6 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	5384
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.74
Spacing Criterion (90-270)	0.74
Spacing Criterion (Diagonal)	0.76
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_12 ~ SGE6BX70L-35KWD-DO101-AR6BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21947	22581	22921
55	12632	13140	12826
65	12785	13116	12706
75	9175	8409	8835
85	2567	2833	3710

IES INDOOR REPORT

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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	8529.400	8529.400	8529.400	8529.400	8529.400	8529.400	8529.400	8529.400	8529.400	8529.400
2.5	8381.999	8314.018	8445.099	8300.351	8437.578	8295.503	8399.867	8250.311	8341.367	8274.855
5.0	7932.975	7950.102	7881.249	7922.159	7844.851	7884.318	7798.835	7849.537	7801.967	7902.038
7.5	7316.931	7339.574	7278.562	7296.693	7258.297	7232.735	7207.330	7241.649	7257.863	7291.702
10.0	6789.245	6712.872	6754.258	6656.724	6720.997	6675.440	6689.047	6645.052	6707.240	6716.788
12.5	6295.475	6290.363	6235.970	6246.990	6208.962	6227.227	6195.316	6238.838	6235.111	6280.673
15.0	5893.239	5872.301	5863.760	5840.663	5833.345	5825.916	5830.448	5836.794	5853.640	5860.450
17.5	5518.181	5501.574	5491.843	5475.839	5460.104	5469.934	5466.143	5471.904	5480.756	5488.361
20.0	5133.371	5124.381	5123.542	5104.607	5096.093	5094.520	5103.978	5096.732	5116.043	5105.030
22.5	4746.361	4673.069	4719.464	4665.592	4668.444	4703.648	4674.804	4662.981	4651.633	4695.044
25.0	4048.347	4162.433	4061.915	4164.614	4053.035	4068.484	4048.183	4142.605	4109.180	4136.297
27.5	3301.546	3250.026	3354.002	3265.964	3338.406	3274.091	3331.834	3270.809	3334.631	3290.785
30.0	2398.907	2368.223	2397.726	2396.473	2390.087	2448.303	2407.922	2435.527	2409.067	2476.417
32.5	1481.388	1632.143	1552.400	1656.955	1602.929	1605.632	1640.677	1714.205	1724.970	1710.761
35.0	1077.347	1001.123	1107.353	1024.657	1119.766	1112.898	1164.058	1116.784	1168.479	1139.166
37.5	697.226	738.299	728.320	755.104	744.837	771.037	788.688	821.108	822.922	816.135
40.0	520.316	509.587	531.948	521.331	538.221	553.889	568.291	569.938	568.128	566.514
42.5	348.006	372.902	366.241	381.142	376.732	379.731	395.326	406.720	405.753	395.364
45.0	261.136	259.856	268.677	265.815	272.722	278.059	281.856	276.888	274.582	273.184
47.5	180.170	198.132	193.813	202.961	200.284	195.413	202.190	200.513	201.810	194.122
50.0	152.623	152.432	159.516	156.203	160.942	159.907	157.423	148.484	144.000	147.711
52.5	128.219	134.759	135.544	136.859	136.042	133.345	130.185	128.354	123.075	125.269
55.0	121.918	121.948	126.826	122.816	123.791	121.879	118.064	114.777	109.125	112.755
57.5	115.614	116.174	119.279	116.143	115.766	112.368	110.402	108.364	103.074	106.199
60.0	109.300	109.846	113.152	109.878	110.784	107.441	105.900	102.057	98.005	101.022
62.5	101.867	102.859	104.482	104.088	101.771	102.838	98.989	95.847	91.943	96.517
65.0	90.918	92.705	93.275	93.348	90.356	90.526	90.666	87.732	85.812	89.081
67.5	79.307	79.599	79.923	78.152	79.111	78.105	79.377	78.187	75.044	80.495
70.0	66.404	64.788	65.064	63.876	67.933	66.533	66.792	65.342	64.192	68.915
72.5	53.243	49.208	50.204	50.096	52.238	54.467	53.224	50.900	53.084	56.563
75.0	39.957	36.412	36.624	38.296	38.476	41.189	40.200	37.869	41.529	42.727
77.5	28.150	25.504	26.995	26.911	28.172	28.765	29.547	26.768	29.450	30.281
80.0	18.067	16.711	18.127	17.158	18.397	18.187	19.723	18.749	19.146	19.649
82.5	9.105	9.518	9.860	10.606	9.915	11.115	12.204	12.253	10.881	11.762
85.0	3.765	3.793	4.155	4.982	5.441	4.462	6.461	5.156	5.159	4.681
87.5	1.924	0.969	1.368	2.138	2.350	1.606	1.781	1.522	1.572	2.798
90.0	0.000	0.000	0.000	0.000	0.000	0.905	0.666	0.915	0.815	0.883
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	8529.400	8529.400	8529.400	8529.400	8529.400	8529.400	8529.400
2.5	8417.271	8293.407	8450.535	8342.561	8478.506	8315.369	8381.999
5.0	7848.386	7933.968	7875.179	7893.931	7908.933	7983.511	7932.975
7.5	7286.265	7323.358	7291.500	7353.887	7329.851	7369.010	7316.931
10.0	6759.693	6744.763	6771.763	6770.457	6804.320	6776.781	6789.245
12.5	6263.170	6299.487	6262.952	6310.049	6288.679	6328.207	6295.475
15.0	5883.343	5873.150	5881.792	5895.935	5894.903	5891.538	5893.239
17.5	5506.038	5506.111	5501.323	5512.312	5502.398	5509.434	5518.181
20.0	5136.171	5123.882	5125.739	5137.718	5119.221	5117.308	5133.371
22.5	4691.220	4704.566	4700.884	4659.556	4691.098	4691.166	4746.361
25.0	4072.432	4135.407	4039.156	4158.646	4041.026	4138.238	4048.347
27.5	3347.134	3269.352	3320.706	3273.654	3325.837	3252.725	3301.546
30.0	2420.991	2443.537	2397.695	2330.431	2375.462	2399.393	2398.907
32.5	1664.756	1682.315	1598.179	1666.432	1553.550	1614.164	1481.388
35.0	1168.794	1109.784	1140.264	1028.956	1093.979	1014.806	1077.347
37.5	788.232	788.655	757.366	755.297	713.851	732.835	697.226
40.0	552.531	541.236	538.390	496.960	510.403	506.275	520.316
42.5	376.504	374.573	360.817	363.439	345.211	358.065	348.006
45.0	263.009	257.986	257.216	234.486	248.444	249.185	261.136
47.5	187.523	186.593	180.707	183.986	177.697	185.982	180.170
50.0	144.842	143.055	143.624	137.411	145.415	146.342	152.623
52.5	121.456	120.487	120.355	124.852	124.194	129.240	128.219
55.0	111.948	108.918	113.588	113.556	116.388	118.306	121.918
57.5	105.564	104.119	106.921	109.498	110.227	112.297	115.614
60.0	101.013	98.641	100.352	104.649	105.735	106.102	109.300
62.5	94.867	92.820	92.761	96.574	98.784	99.785	101.867
65.0	87.966	84.222	84.330	87.693	89.784	89.850	90.918

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX70L-35KWD-DO101-AR6BXMWWF.IES****CANDELA TABULATION - (Cont.)**

67.5	78.773	74.502	75.019	76.492	78.646	78.025	79.307
70.0	68.761	64.269	65.134	64.784	66.246	63.171	66.404
72.5	55.363	53.892	52.364	52.402	52.026	48.349	53.243
75.0	42.477	42.959	39.206	39.703	38.383	38.978	39.957
77.5	32.406	32.050	30.194	27.690	27.394	27.960	28.150
80.0	21.879	21.233	19.976	17.352	18.165	17.534	18.067
82.5	12.233	11.650	10.430	7.597	11.073	10.453	9.105
85.0	5.873	5.505	4.704	4.123	4.824	4.586	3.765
87.5	2.649	2.507	2.411	1.701	1.390	1.442	1.924
90.0	0.738	0.607	1.280	0.000	0.000	0.000	0.000
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_12 ~ SGE6BX70L-35KWD-DO101-AR6BXMWWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2360.54	N.A.	43.80
0-30	4157.32	N.A.	77.20
0-40	4914.94	N.A.	91.30
0-60	5246.59	N.A.	97.50
0-80	5376.44	N.A.	99.90
0-90	5383.78	N.A.	100.00
10-90	4668.71	N.A.	86.70
20-40	2554.41	N.A.	47.40
20-50	2777.86	N.A.	51.60
40-70	418.58	N.A.	7.80
60-80	129.85	N.A.	2.40
70-80	42.91	N.A.	0.80
80-90	7.34	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	5383.83	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	715.07
10-20	1645.47
20-30	1796.79
30-40	757.62
40-50	223.46
50-60	108.19
60-70	86.94
70-80	42.91
80-90	7.34
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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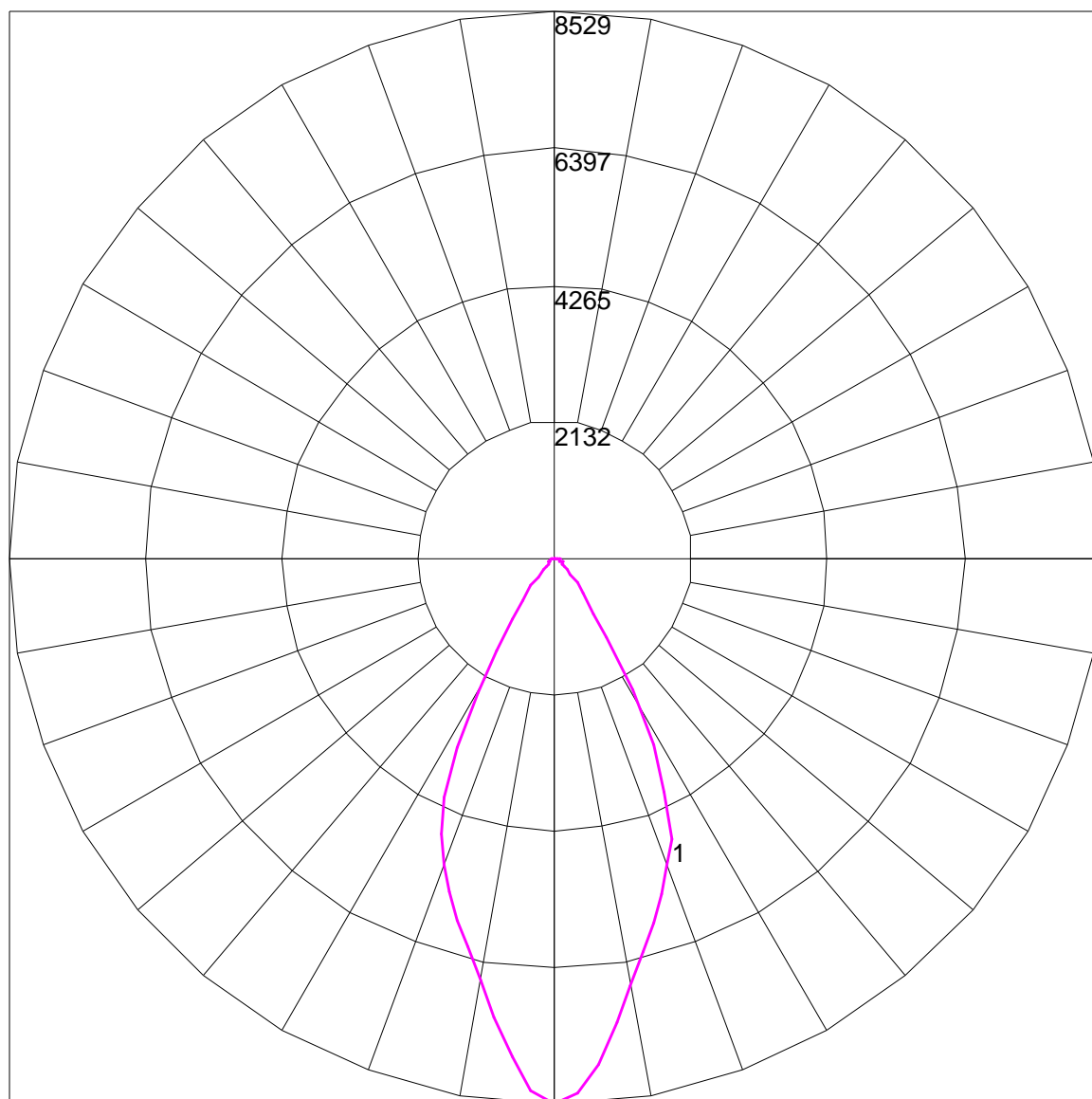
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_12 ~ SGE6BX70L-35KWD-DO101-AR6BXMWWF.IES

POLAR GRAPH



Maximum Candela = 8529.4 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)