

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX80L-35KXW-DO101-AR6BXSGWF.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00625_15
 [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-SGWF
 [LUMINAIRE] Nom. 6" Diam x 9" H, Open aperture
 [OTHER] Semi diffuse aluminum reflector trim
 [OTHER] Deep regressed retrofit high output LED downlight
 [OTHER] BX Series, Xtra Wide Beam
 [OTHER] 44.6 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6124
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)	0.66
Spacing Criterion (90-270)	0.64
Spacing Criterion (Diagonal)	0.74
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_15 ~ SGE6BX80L-35KXW-DO101-AR6BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	27279	29938	34008
55	428	460	691
65	253	115	228
75	125	194	231
85	507	398	746

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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	10919.310	10919.310	10919.310	10919.310	10919.310	10919.310	10919.310	10919.310	10919.310	10919.310
2.5	10463.620	10489.790	10331.250	10470.560	10421.140	9769.380	10006.670	9907.892	10218.790	10244.860
5.0	9911.334	9720.052	9599.679	9633.298	9717.881	8772.147	8884.609	8952.362	9273.921	9497.917
7.5	8862.775	8800.823	8529.250	8678.504	8613.496	7925.703	8043.605	8096.184	8407.349	8522.532
10.0	7887.084	7833.846	7589.803	7694.279	7615.189	7157.757	7302.895	7284.019	7559.120	7637.957
12.5	7312.920	7218.929	7055.716	7117.289	7118.653	6743.854	6809.036	6834.265	7017.190	7103.652
15.0	6764.960	6723.245	6565.957	6649.316	6645.732	6342.994	6409.937	6394.710	6552.178	6598.386
17.5	6379.034	6340.143	6224.744	6280.792	6293.542	6005.551	6056.189	6053.570	6174.648	6215.727
20.0	5987.471	5998.130	5871.718	5941.234	5935.571	5634.085	5720.814	5694.682	5821.094	5810.410
22.5	5557.625	5554.897	5476.547	5516.002	5544.640	5078.807	5163.699	5139.688	5285.354	5302.277
25.0	5063.854	5072.635	4960.311	5064.237	5075.775	4454.576	4510.332	4549.812	4696.412	4699.594
27.5	4072.839	4190.729	3973.195	4175.041	4121.365	3424.674	3605.761	3486.366	3728.925	3622.522
30.0	3098.319	3146.224	3022.387	3142.068	3184.229	2453.671	2586.426	2450.475	2643.907	2604.020
32.5	2267.458	2344.566	2222.794	2358.586	2369.225	1873.784	1918.797	1864.588	1936.877	1904.133
35.0	1478.621	1648.774	1506.293	1663.572	1606.254	1325.039	1420.121	1291.577	1356.726	1259.610
37.5	1122.021	1198.654	1161.476	1232.085	1251.697	1004.709	1046.242	980.882	985.411	943.197
40.0	775.354	861.245	833.182	899.396	907.234	695.352	736.336	673.627	688.319	642.156
42.5	546.597	600.694	586.535	639.153	651.542	478.939	497.650	469.098	471.609	444.012
45.0	324.585	377.807	356.216	408.080	404.645	271.925	297.280	266.563	285.635	256.416
47.5	196.781	222.053	213.298	245.129	249.233	154.788	163.197	154.856	161.983	146.863
50.0	73.811	100.850	84.684	111.093	101.984	45.633	67.084	43.801	63.480	46.436
52.5	38.234	40.831	41.786	47.390	52.865	23.776	22.183	23.721	23.198	24.052
55.0	4.127	14.368	4.444	15.635	6.666	3.368	8.022	3.641	8.095	3.672
57.5	3.985	3.891	3.608	4.146	4.337	2.404	2.294	2.669	3.002	2.660
60.0	3.819	2.607	2.749	2.337	2.115	1.519	1.867	1.770	2.466	1.712
62.5	2.800	1.881	1.709	1.798	1.875	1.915	1.497	1.698	1.902	1.505
65.0	1.796	1.492	0.815	1.896	1.623	2.244	1.165	1.641	1.325	1.293
67.5	1.375	1.352	1.055	1.759	1.109	1.362	1.135	1.591	1.061	1.030
70.0	0.954	1.360	1.215	1.504	0.711	0.620	1.298	1.539	0.944	0.828
72.5	0.538	1.199	1.059	1.522	1.016	0.703	1.187	1.464	0.999	0.928
75.0	0.543	0.989	0.847	1.547	1.007	0.818	0.983	1.298	1.084	0.978
77.5	1.168	0.819	0.575	1.102	0.572	0.975	0.823	0.976	1.081	0.965
80.0	0.762	0.669	0.596	0.746	0.870	0.581	1.058	0.924	0.860	0.893
82.5	0.590	0.685	0.514	0.630	1.165	0.483	1.333	1.017	0.767	0.739
85.0	0.743	0.994	0.583	0.884	1.094	0.744	1.229	0.774	0.798	0.935
87.5	0.769	0.934	0.982	0.978	0.693	0.836	0.805	0.723	0.458	0.783
90.0	0.476	0.157	0.521	0.206	1.569	0.943	0.235	0.663	0.149	0.564
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	10919.310	10919.310	10919.310	10919.310	10919.310	10919.310	10919.310
2.5	10524.910	10445.150	10514.640	10747.970	10663.520	10625.670	10463.620
5.0	9727.050	9777.677	9717.081	10409.850	10300.270	10191.970	9911.334
7.5	8846.031	8774.269	8822.213	9507.527	9239.085	9256.036	8862.775
10.0	7932.603	7839.973	7901.365	8448.208	8267.408	8235.271	7887.084
12.5	7290.605	7257.838	7266.976	7713.824	7600.898	7567.028	7312.920
15.0	6760.188	6698.297	6715.803	7077.641	6978.903	6963.651	6764.960
17.5	6318.982	6267.126	6276.748	6584.503	6518.598	6520.861	6379.034
20.0	5917.058	5823.924	5872.330	6137.281	6066.007	6110.917	5987.471
22.5	5382.983	5306.041	5292.916	5682.418	5643.992	5657.104	5557.625
25.0	4787.678	4718.312	4655.043	5224.957	5119.708	5193.616	5063.854
27.5	3858.522	3638.802	3674.255	4339.994	4161.084	4279.419	4072.839
30.0	2764.175	2600.867	2572.157	3298.285	3208.449	3258.391	3098.319
32.5	1989.164	1887.788	1845.382	2410.647	2283.816	2405.695	2267.458
35.0	1380.076	1215.110	1261.478	1582.687	1451.230	1596.674	1478.621
37.5	968.994	895.995	887.245	1103.517	1083.500	1149.308	1122.021
40.0	665.864	588.906	597.253	769.305	738.468	802.120	775.354
42.5	444.900	406.201	397.103	533.574	521.155	560.289	546.597
45.0	271.622	229.911	235.004	340.957	316.904	350.161	324.585
47.5	151.298	130.259	129.407	203.996	192.899	210.875	196.781
50.0	63.174	35.840	49.423	93.092	79.819	94.233	73.811
52.5	21.193	19.428	16.886	39.246	40.457	42.465	38.234
55.0	9.028	3.826	6.968	13.478	5.437	13.089	4.127
57.5	3.373	2.999	3.027	3.941	3.934	4.219	3.985
60.0	2.122	2.176	2.127	2.793	2.523	2.839	3.819
62.5	1.597	1.464	1.874	1.999	1.900	2.115	2.800
65.0	1.587	0.777	1.968	1.400	1.340	1.644	1.796

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX80L-35KXW-DO101-AR6BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	1.480	0.787	1.796	0.969	1.382	1.348	1.375
70.0	1.305	0.821	1.487	0.627	1.350	1.120	0.954
72.5	1.049	1.014	1.230	0.794	0.999	0.869	0.538
75.0	0.793	1.258	1.029	1.069	0.881	0.662	0.543
77.5	1.091	1.574	1.180	1.013	1.029	0.707	1.168
80.0	1.010	1.281	0.997	0.761	0.715	0.603	0.762
82.5	0.811	1.116	0.798	0.759	0.778	0.822	0.590
85.0	0.880	0.932	0.714	0.932	0.805	1.275	0.743
87.5	0.564	1.187	0.497	0.525	0.910	0.732	0.769
90.0	0.268	0.467	0.851	0.328	0.717	1.177	0.476
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_15 ~ SGE6BX80L-35KXW-DO101-AR6BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2744.25	N.A.	44.80
0-30	4851.15	N.A.	79.20
0-40	5835.08	N.A.	95.30
0-60	6120.05	N.A.	99.90
0-80	6122.67	N.A.	100.00
0-90	6123.54	N.A.	100.00
10-90	5264.48	N.A.	86.00
20-40	3090.84	N.A.	50.50
20-50	3358.25	N.A.	54.80
40-70	286.53	N.A.	4.70
60-80	2.62	N.A.	0.00
70-80	1.05	N.A.	0.00
80-90	0.87	N.A.	0.00
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	6123.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	859.06
10-20	1885.19
20-30	2106.9
30-40	983.93
40-50	267.42
50-60	17.55
60-70	1.57
70-80	1.05
80-90	0.87
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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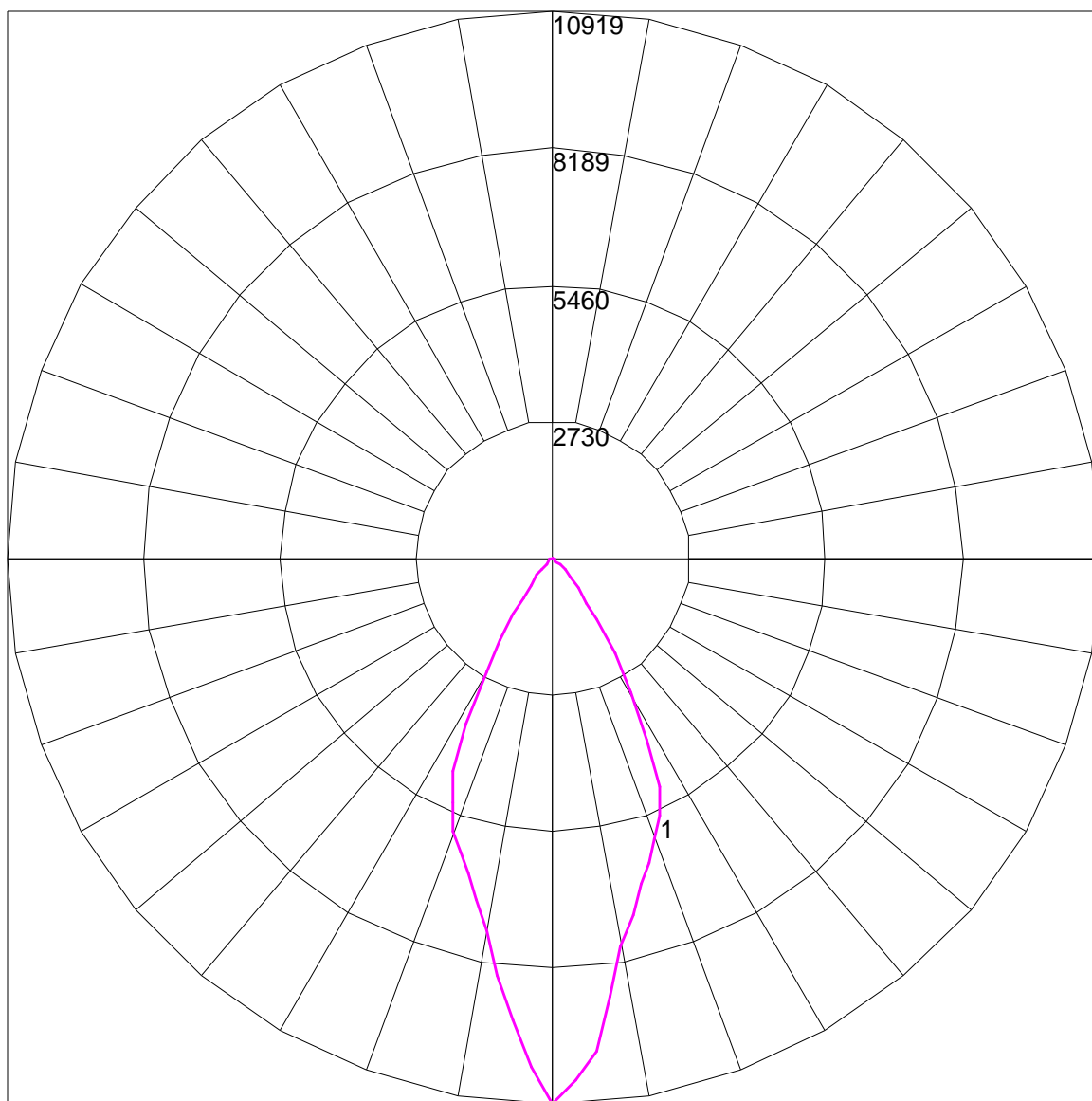
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00625_15 ~ SGE6BX80L-35KXW-DO101-AR6BXSGWF.IES

POLAR GRAPH



Maximum Candela = 10919.31 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)