

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX70L-35KWD-DO101-AR8BXSGWF.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00621_16_M-70L
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/7/2018
 [UPDATE] 7/19/2018
 [LUMCAT] SGE8BX-70L35K-WD-DO101-AR8BX-SGWF
 [LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture
 [OTHER] Semi-diffuse aluminum reflector trim
 [OTHER] Deep regressed retrofit high output LED downlight
 [OTHER] BX Series, Wide Beam
 [OTHER] 60.2 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	5552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	51
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
Spacing Criterion (90-270)	0.96
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_16 ~ SGE8BX70L-35KWD-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8268	8797	7639
55	180	82	116
65	89	38	79
75	114	111	103
85	321	304	258

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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	6728.498	6728.498	6728.498	6728.498	6728.498	6728.498	6728.498	6728.498	6728.498	6728.498
2.5	6672.801	6690.039	6674.418	6690.260	6674.346	6605.085	6641.942	6649.712	6680.004	6669.108
5.0	6583.686	6602.077	6580.588	6587.955	6582.943	6474.713	6533.318	6548.392	6585.762	6575.668
7.5	6413.356	6438.540	6403.769	6423.260	6401.215	6266.342	6345.832	6371.859	6425.144	6404.500
10.0	6225.239	6249.469	6208.556	6224.434	6205.466	6041.594	6133.633	6176.421	6233.468	6215.390
12.5	5991.961	6017.372	5959.506	5982.493	5951.992	5776.663	5880.148	5924.619	5989.417	5961.289
15.0	5751.861	5769.607	5703.045	5715.821	5691.324	5511.775	5612.681	5673.003	5719.609	5701.514
17.5	5493.141	5522.367	5423.589	5442.141	5398.859	5247.005	5365.736	5421.983	5465.899	5419.314
20.0	5244.189	5275.328	5165.233	5164.250	5120.670	4992.681	5126.150	5166.738	5220.634	5131.987
22.5	5023.435	5037.049	4977.766	4935.405	4912.119	4767.448	4849.007	4897.014	4894.648	4822.944
25.0	4727.699	4802.326	4728.875	4737.892	4669.065	4447.618	4557.381	4551.181	4524.242	4457.491
27.5	4198.196	4333.538	4260.242	4328.362	4243.807	3848.946	3980.960	3921.592	3966.569	3835.282
30.0	3601.035	3762.931	3701.429	3777.062	3744.197	3152.604	3288.667	3226.531	3299.216	3169.067
32.5	2779.837	2941.176	2790.885	2966.401	2805.538	2145.138	2389.869	2270.549	2450.328	2281.335
35.0	1967.719	2004.441	1913.346	1971.664	1894.487	1253.685	1401.048	1387.055	1490.053	1437.823
37.5	1187.596	1287.255	1173.670	1229.157	1161.979	755.019	816.800	820.392	853.892	835.701
40.0	529.174	677.442	534.883	673.861	497.867	336.306	418.161	330.343	425.971	301.622
42.5	337.967	366.282	348.763	347.063	321.370	205.908	215.601	200.759	193.367	184.024
45.0	169.464	208.523	180.315	197.572	156.578	92.720	107.621	85.518	94.018	76.821
47.5	94.240	110.392	99.471	98.749	87.836	47.218	49.137	43.186	38.199	39.475
50.0	29.997	44.405	28.983	41.605	24.654	9.588	16.129	6.828	13.447	6.260
52.5	15.324	14.349	14.120	11.412	12.812	5.137	3.554	4.321	2.202	3.736
55.0	2.995	4.914	1.361	4.383	1.926	1.409	2.016	2.077	1.182	1.477
57.5	2.077	1.255	1.248	0.945	1.566	1.028	1.336	1.461	0.742	1.499
60.0	1.291	1.068	1.105	0.777	1.223	0.705	1.151	0.912	0.763	1.490
62.5	1.198	0.819	0.759	0.782	1.099	0.677	0.957	0.840	0.746	1.176
65.0	1.088	0.530	0.468	0.954	0.967	0.655	0.759	0.782	0.701	0.884
67.5	0.878	0.433	0.551	1.013	0.722	0.656	0.803	0.832	0.641	0.823
70.0	0.737	0.454	0.658	0.969	0.544	0.649	0.987	0.843	0.572	0.794
72.5	0.813	0.535	0.855	0.879	0.715	0.619	0.829	0.702	0.730	0.917
75.0	0.853	0.626	0.835	0.763	0.771	0.521	0.575	0.631	0.982	0.926
77.5	0.855	0.605	0.591	0.736	0.679	0.360	0.474	0.637	0.894	0.800
80.0	0.599	0.729	0.950	0.859	0.664	0.631	0.641	0.763	0.778	0.594
82.5	0.492	0.739	0.722	0.853	0.659	0.760	1.076	0.464	0.702	0.454
85.0	0.810	0.547	0.767	0.552	0.653	0.823	1.124	0.466	0.744	0.537
87.5	0.732	0.684	0.665	0.861	0.571	0.940	0.514	0.730	0.745	0.393
90.0	0.759	0.294	0.570	0.365	0.619	0.971	0.186	0.244	0.444	0.541
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	6728.498	6728.498	6728.498	6728.498	6728.498	6728.498	6728.498
2.5	6690.925	6679.909	6685.006	6688.656	6671.230	6681.151	6672.801
5.0	6600.400	6586.372	6593.077	6624.727	6601.144	6593.756	6583.686
7.5	6443.623	6420.550	6429.365	6490.519	6438.536	6434.208	6413.356
10.0	6259.671	6231.438	6244.012	6322.362	6261.380	6245.561	6225.239
12.5	6021.874	5991.415	6005.091	6111.144	6026.894	6018.333	5991.961
15.0	5760.416	5733.275	5748.692	5877.731	5783.000	5774.703	5751.861
17.5	5487.997	5433.457	5477.183	5606.693	5499.386	5522.251	5493.141
20.0	5210.508	5139.690	5200.449	5315.305	5224.869	5265.785	5244.189
22.5	4880.228	4860.589	4880.931	5048.474	4992.625	4999.038	5023.435
25.0	4523.880	4491.111	4545.481	4795.573	4710.861	4727.374	4727.699
27.5	3968.015	3886.579	3988.032	4341.433	4180.641	4252.741	4198.196
30.0	3308.694	3217.408	3343.295	3765.865	3614.403	3676.090	3601.035
32.5	2484.449	2370.604	2505.021	3042.974	2852.228	2907.035	2779.837
35.0	1570.467	1566.829	1586.490	2226.985	2082.258	2034.879	1967.719
37.5	930.913	890.504	961.297	1464.930	1264.757	1306.807	1187.596
40.0	450.311	345.284	466.373	739.077	528.604	659.713	529.174
42.5	205.060	211.830	233.205	350.183	336.947	328.088	337.967
45.0	102.641	98.309	122.329	197.906	159.756	185.095	169.464
47.5	45.348	52.618	60.743	101.774	93.246	96.343	94.240
50.0	17.157	15.414	23.744	47.467	32.119	41.561	29.997
52.5	4.785	8.976	8.217	18.177	17.026	14.505	15.324
55.0	3.091	3.681	3.936	8.370	3.243	5.628	2.995
57.5	2.140	2.807	2.216	3.376	2.118	1.604	2.077
60.0	1.723	2.009	1.906	2.300	1.090	0.958	1.291
62.5	1.256	1.534	1.604	1.816	1.205	0.741	1.198
65.0	0.754	1.124	1.308	1.843	1.294	0.838	1.088

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX70L-35KWD-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.677	0.994	0.935	1.492	1.069	0.689	0.878
70.0	0.906	0.881	0.519	0.830	0.898	0.368	0.737
72.5	0.854	0.816	0.649	0.734	0.995	0.505	0.813
75.0	0.691	0.757	0.912	0.893	0.946	0.806	0.853
77.5	0.601	0.707	0.842	0.599	0.715	0.827	0.855
80.0	0.539	0.848	0.939	0.998	0.670	0.598	0.599
82.5	0.462	0.658	0.814	1.310	0.557	0.492	0.492
85.0	0.536	0.607	0.384	0.453	0.628	0.861	0.810
87.5	0.801	0.688	0.505	0.696	1.057	0.773	0.732
90.0	0.232	0.390	0.210	0.115	0.403	0.098	0.759
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_16 ~ SGE8BX70L-35KWD-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2220.19	N.A.	40.00
0-30	4277.52	N.A.	77.00
0-40	5403.34	N.A.	97.30
0-60	5549.18	N.A.	100.00
0-80	5550.91	N.A.	100.00
0-90	5551.63	N.A.	100.00
10-90	4935.69	N.A.	88.90
20-40	3183.15	N.A.	57.30
20-50	3322.89	N.A.	59.90
40-70	146.78	N.A.	2.60
60-80	1.73	N.A.	0.00
70-80	0.78	N.A.	0.00
80-90	0.72	N.A.	0.00
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	5551.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	615.94
10-20	1604.26
20-30	2057.32
30-40	1125.83
40-50	139.74
50-60	6.10
60-70	0.95
70-80	0.78
80-90	0.72
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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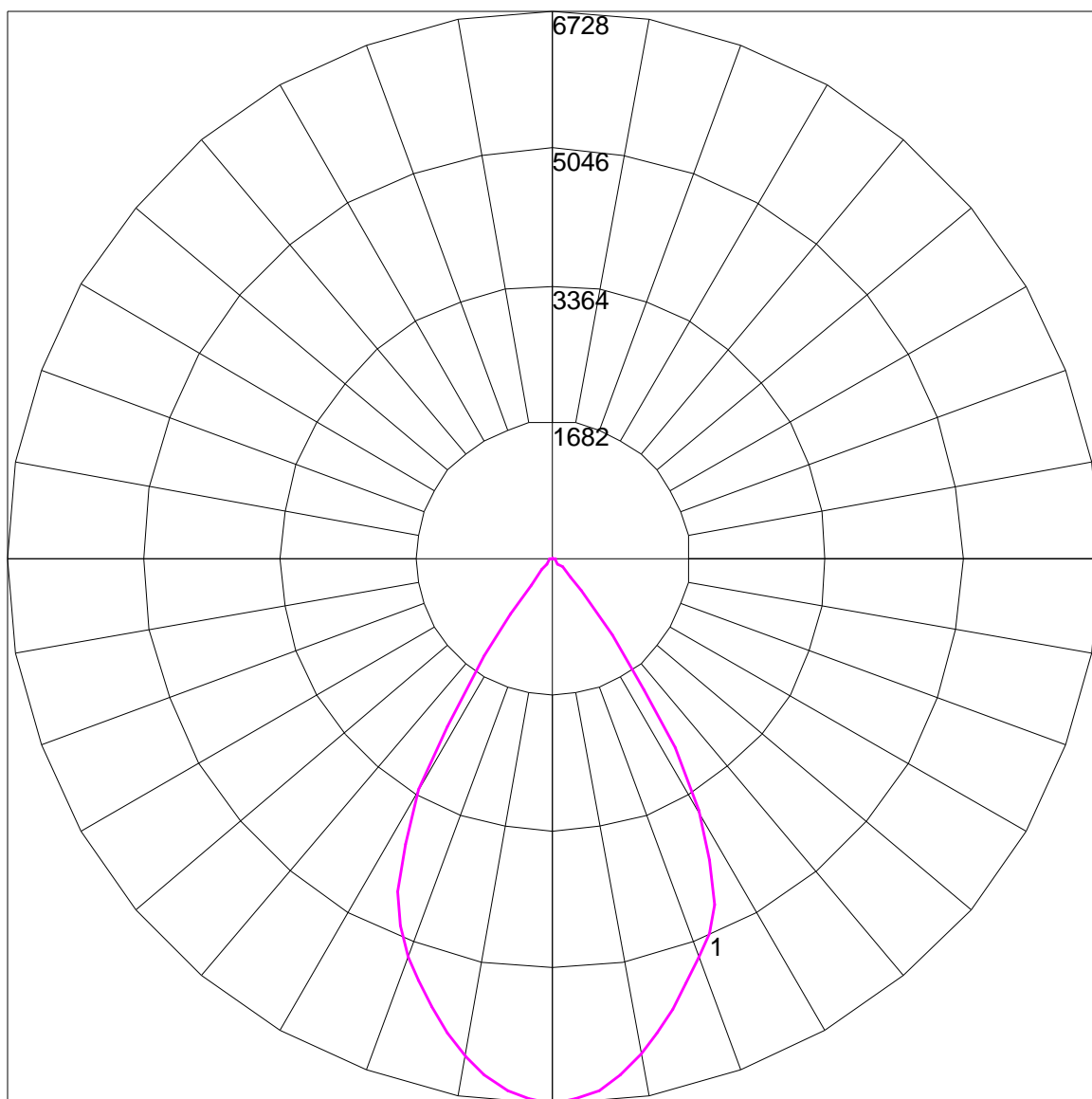
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX70L-35KWD-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 6728.498 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)