

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX80L-35KWD-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00621_16
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/13/2018
[LUMCAT] SGE8BX-80L35K-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	6426
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)	0.98
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 ~ SGE8BX80L-35KWD-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9569	10182	8841
55	208	95	134
65	103	44	91
75	132	129	119
85	371	351	299

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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	7787.613	7787.613	7787.613	7787.613	7787.613	7787.613	7787.613	7787.613	7787.613	7787.613
2.5	7723.149	7743.100	7725.021	7743.356	7724.937	7644.774	7687.433	7696.426	7731.486	7718.875
5.0	7620.007	7641.293	7616.421	7624.948	7619.147	7493.881	7561.710	7579.157	7622.410	7610.727
7.5	7422.865	7452.014	7411.770	7434.328	7408.813	7252.710	7344.713	7374.837	7436.509	7412.615
10.0	7205.138	7233.182	7185.828	7204.206	7182.252	6992.586	7099.112	7148.635	7214.662	7193.738
12.5	6935.140	6964.551	6897.576	6924.182	6888.879	6685.952	6805.727	6857.198	6932.196	6899.640
15.0	6657.246	6677.786	6600.746	6615.533	6587.180	6379.369	6496.158	6565.975	6619.918	6598.974
17.5	6357.802	6391.628	6277.302	6298.774	6248.679	6072.922	6210.343	6275.443	6326.272	6272.354
20.0	6069.663	6105.704	5978.279	5977.141	5926.701	5778.566	5933.044	5980.021	6042.400	5939.800
22.5	5814.161	5829.918	5761.303	5712.274	5685.323	5517.880	5612.276	5667.840	5665.102	5582.111
25.0	5471.874	5558.248	5473.235	5483.671	5404.010	5147.706	5274.746	5267.571	5236.391	5159.133
27.5	4859.023	5015.669	4930.836	5009.678	4911.813	4454.799	4607.592	4538.879	4590.936	4438.984
30.0	4167.864	4355.244	4284.061	4371.600	4333.561	3648.847	3806.328	3734.411	3818.537	3667.902
32.5	3217.404	3404.139	3230.191	3433.334	3247.150	2482.798	2766.052	2627.950	2836.028	2640.434
35.0	2277.452	2319.955	2214.521	2282.018	2192.693	1451.024	1621.583	1605.388	1724.598	1664.147
37.5	1374.532	1489.878	1358.414	1422.635	1344.883	873.864	945.370	949.528	988.301	967.246
40.0	612.470	784.076	619.077	779.932	576.235	389.243	483.983	382.341	493.022	349.099
42.5	391.166	423.937	403.661	401.693	371.956	238.320	249.538	232.360	223.804	212.991
45.0	196.139	241.346	208.698	228.671	181.224	107.315	124.561	98.979	108.817	88.913
47.5	109.074	127.769	115.128	114.293	101.662	54.650	56.872	49.984	44.212	45.689
50.0	34.719	51.395	33.545	48.154	28.535	11.097	18.668	7.903	15.564	7.245
52.5	17.736	16.608	16.343	13.208	14.829	5.946	4.114	5.001	2.549	4.324
55.0	3.466	5.687	1.575	5.073	2.229	1.631	2.333	2.404	1.368	1.709
57.5	2.404	1.452	1.445	1.094	1.813	1.190	1.546	1.691	0.859	1.735
60.0	1.494	1.236	1.279	0.899	1.416	0.816	1.332	1.056	0.883	1.725
62.5	1.387	0.948	0.879	0.905	1.272	0.784	1.108	0.972	0.864	1.361
65.0	1.259	0.613	0.542	1.104	1.119	0.758	0.878	0.905	0.811	1.023
67.5	1.016	0.501	0.638	1.173	0.836	0.759	0.929	0.963	0.742	0.952
70.0	0.853	0.526	0.762	1.122	0.630	0.751	1.142	0.976	0.662	0.919
72.5	0.941	0.619	0.990	1.017	0.828	0.716	0.959	0.812	0.845	1.061
75.0	0.987	0.724	0.967	0.883	0.892	0.603	0.666	0.730	1.137	1.072
77.5	0.990	0.700	0.684	0.852	0.786	0.417	0.549	0.737	1.035	0.926
80.0	0.693	0.844	1.100	0.994	0.769	0.730	0.742	0.883	0.900	0.687
82.5	0.570	0.855	0.836	0.987	0.763	0.880	1.245	0.537	0.813	0.526
85.0	0.937	0.633	0.888	0.639	0.756	0.952	1.301	0.539	0.861	0.622
87.5	0.847	0.792	0.770	0.996	0.661	1.088	0.595	0.845	0.862	0.455
90.0	0.879	0.340	0.660	0.423	0.717	1.124	0.215	0.282	0.514	0.626
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	7787.613	7787.613	7787.613	7787.613	7787.613	7787.613	7787.613
2.5	7744.126	7731.376	7737.275	7741.500	7721.331	7732.813	7723.149
5.0	7639.352	7623.115	7630.876	7667.508	7640.213	7631.662	7620.007
7.5	7457.897	7431.192	7441.394	7512.175	7452.009	7447.000	7422.865
10.0	7244.989	7212.312	7226.865	7317.549	7246.967	7228.658	7205.138
12.5	6969.761	6934.508	6950.337	7073.083	6975.571	6965.663	6935.140
15.0	6667.148	6635.735	6653.579	6802.929	6693.287	6683.684	6657.246
17.5	6351.848	6288.723	6339.332	6489.228	6365.030	6391.494	6357.802
20.0	6030.680	5948.715	6019.038	6151.973	6047.302	6094.658	6069.663
22.5	5648.412	5625.681	5649.225	5843.141	5778.501	5785.923	5814.161
25.0	5235.972	5198.045	5260.973	5550.432	5452.385	5471.497	5471.874
27.5	4592.610	4498.355	4615.778	5024.807	4838.705	4922.154	4859.023
30.0	3829.507	3723.852	3869.554	4358.640	4183.337	4254.734	4167.864
32.5	2875.520	2743.754	2899.330	3521.961	3301.190	3364.624	3217.404
35.0	1817.670	1813.460	1836.215	2577.529	2410.021	2355.184	2277.452
37.5	1077.445	1030.676	1112.612	1695.521	1463.839	1512.508	1374.532
40.0	521.193	399.634	539.784	855.413	611.810	763.557	612.470
42.5	237.338	245.174	269.913	405.304	389.985	379.732	391.166
45.0	118.798	113.783	141.585	229.058	184.903	214.230	196.139
47.5	52.486	60.900	70.304	117.794	107.924	111.508	109.074
50.0	19.858	17.840	27.481	54.939	37.175	48.103	34.719
52.5	5.538	10.389	9.510	21.038	19.706	16.788	17.736
55.0	3.577	4.260	4.555	9.687	3.753	6.514	3.466
57.5	2.477	3.249	2.565	3.907	2.451	1.856	2.404
60.0	1.994	2.325	2.206	2.662	1.262	1.109	1.494
62.5	1.454	1.776	1.857	2.102	1.395	0.858	1.387
65.0	0.873	1.301	1.514	2.133	1.498	0.970	1.259

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_16 ~ SGE8BX80L-35KWD-DO101-AR8BXSGWF.IES****CANDELA TABULATION - (Cont.)**

67.5	0.784	1.151	1.082	1.727	1.237	0.798	1.016
70.0	1.049	1.020	0.601	0.961	1.039	0.426	0.853
72.5	0.989	0.944	0.751	0.849	1.152	0.584	0.941
75.0	0.800	0.876	1.056	1.033	1.095	0.933	0.987
77.5	0.696	0.818	0.975	0.693	0.828	0.957	0.990
80.0	0.624	0.982	1.087	1.155	0.776	0.692	0.693
82.5	0.535	0.762	0.942	1.516	0.645	0.569	0.570
85.0	0.620	0.703	0.445	0.524	0.727	0.997	0.937
87.5	0.927	0.796	0.584	0.806	1.223	0.895	0.847
90.0	0.268	0.451	0.243	0.133	0.467	0.114	0.879
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 ~ SGE8BX80L-35KWD-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2569.67	N.A.	40.00
0-30	4950.83	N.A.	77.00
0-40	6253.87	N.A.	97.30
0-60	6422.66	N.A.	100.00
0-80	6424.66	N.A.	100.00
0-90	6425.49	N.A.	100.00
10-90	5712.61	N.A.	88.90
20-40	3684.2	N.A.	57.30
20-50	3845.94	N.A.	59.90
40-70	169.89	N.A.	2.60
60-80	2.00	N.A.	0.00
70-80	0.90	N.A.	0.00
80-90	0.83	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	6425.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	712.89
10-20	1856.78
20-30	2381.16
30-40	1303.04
40-50	161.73
50-60	7.05
60-70	1.10
70-80	0.90
80-90	0.83
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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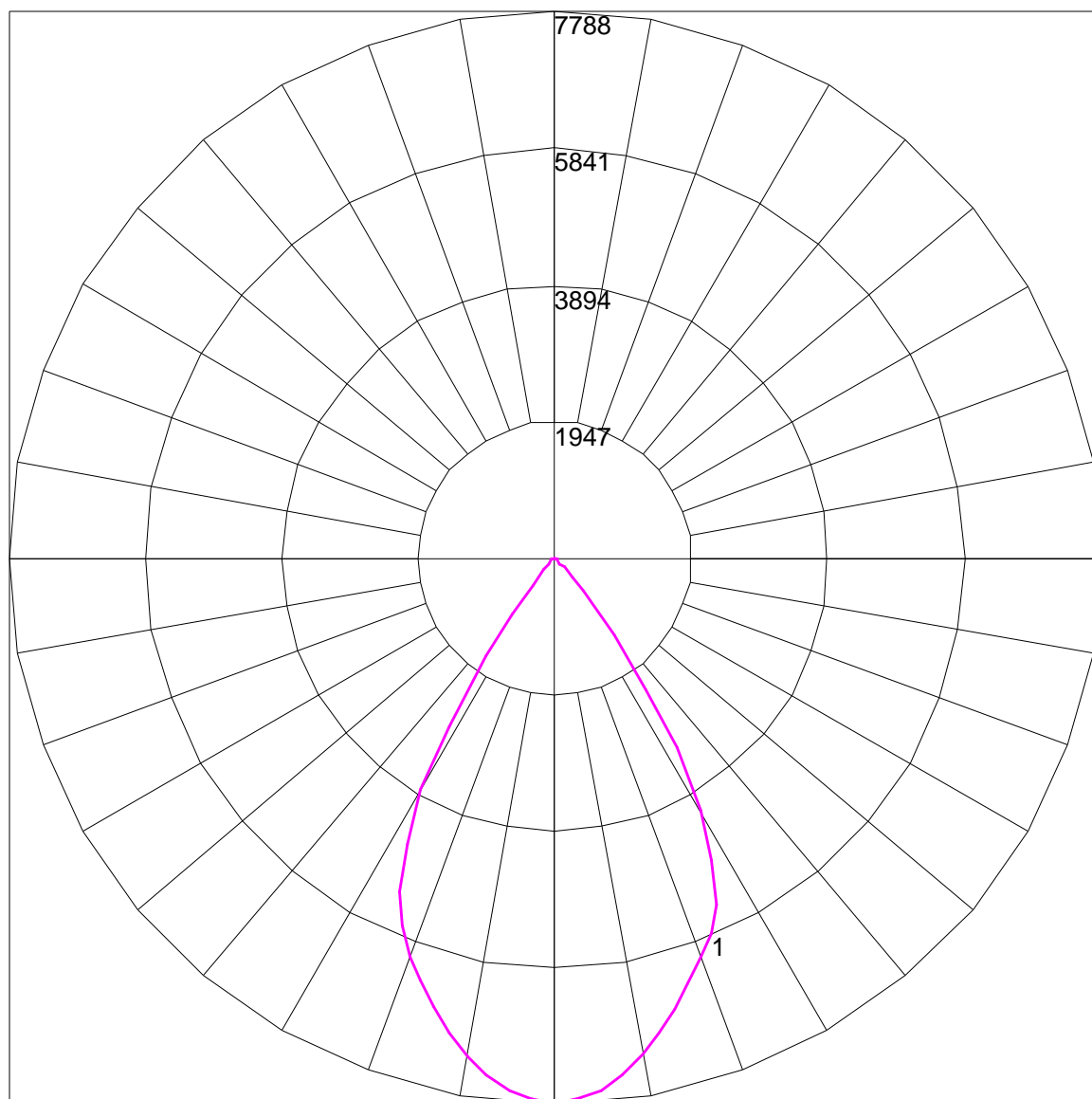
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 ~ SGE8BX80L-35KWD-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 7787.613 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)