

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00661\_2 ~ CP0608XT-10L35K-OSDEX-NLSFA-PT.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00661\_2\_M-10L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 4/18/2018  
 [UPDATE] 11/1/2018  
 [LUMCAT] CP0608XT-10L-35K-OSD-EX-NLSFA-PT  
 [LUMINAIRE] Nom 6" diam x 8.2" H, Carli Pendant decorative luminaire  
 [LAMPCAT] N/A  
 [LAMP] N/A, 19mm LES  
 [OTHER] Open Spherical Diffuser at LED  
 [OTHER] No Upper Lens  
 [OTHER] Acrylic Shade  
 [OTHER] 75.8% Downlight  
 [OTHER] 24.2% Uplight  
 [OTHER] Luminaire tested with Platinum painted finish  
 [OTHER] Total Luminaire watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	403
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.50 ft (Diameter)
Luminous Width (90-270)	0.50 ft (Diameter)
Luminous Height	0.12 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00661\_2 ~ CP0608XT-10L35K-OSDEX-NLSFA-PT.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1417	1428	1599
55	315	378	320
65	1351	1415	1172
75	2929	3177	2801
85	5440	6144	5393

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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>
<b>0.0</b>	366.690	366.690	366.690	366.690	366.690	366.690	366.690	366.690	366.690	366.690
<b>2.5</b>	365.839	367.249	365.659	367.689	366.273	365.674	367.004	365.422	366.243	365.684
<b>5.0</b>	364.523	362.191	364.569	361.485	363.487	363.031	362.218	363.502	362.804	365.667
<b>7.5</b>	349.694	351.243	346.214	353.135	348.688	345.065	350.225	352.743	356.986	353.353
<b>10.0</b>	322.058	324.389	319.353	321.753	318.743	316.831	325.894	325.292	333.424	332.300
<b>12.5</b>	283.674	285.060	279.244	285.195	281.568	278.388	286.707	290.618	299.512	296.647
<b>15.0</b>	236.986	240.707	233.909	240.902	236.956	234.262	244.834	244.803	256.006	252.611
<b>17.5</b>	191.535	193.109	190.196	195.424	194.199	191.809	200.323	199.899	207.885	207.447
<b>20.0</b>	146.870	152.503	146.983	156.414	153.044	150.097	160.264	156.137	165.616	161.749
<b>22.5</b>	115.535	115.586	116.694	117.982	120.573	119.040	123.773	121.382	125.556	127.070
<b>25.0</b>	91.116	94.247	89.340	97.954	94.206	91.652	99.216	95.956	101.898	96.476
<b>27.5</b>	79.460	79.414	79.754	78.838	80.933	80.475	82.661	81.377	82.959	84.650
<b>30.0</b>	73.041	71.701	73.012	73.957	75.091	73.676	74.415	76.098	76.566	78.111
<b>32.5</b>	65.292	66.331	65.321	68.859	68.579	67.975	70.655	70.315	72.924	72.766
<b>35.0</b>	57.114	58.478	57.536	60.321	61.753	62.486	64.015	64.178	66.809	67.677
<b>37.5</b>	48.742	50.004	48.823	51.781	53.406	53.554	56.120	56.270	60.328	59.356
<b>40.0</b>	40.323	40.581	40.074	43.215	44.500	44.174	47.361	47.332	51.361	50.572
<b>42.5</b>	32.090	30.990	32.037	34.698	35.710	35.951	38.305	38.401	42.181	42.102
<b>45.0</b>	23.890	24.016	24.071	26.442	26.953	27.810	29.998	29.473	33.636	33.658
<b>47.5</b>	17.620	17.352	17.356	18.584	20.134	20.340	21.884	22.451	25.127	25.304
<b>50.0</b>	11.569	11.447	11.024	12.273	13.723	12.972	15.343	16.121	17.544	17.012
<b>52.5</b>	8.085	5.586	7.969	7.252	9.144	8.486	9.096	10.655	10.267	11.726
<b>55.0</b>	4.740	6.269	5.684	6.071	4.820	4.432	6.602	5.435	7.562	6.776
<b>57.5</b>	7.459	7.074	7.819	6.156	6.199	5.535	4.578	6.157	5.439	6.518
<b>60.0</b>	10.218	10.132	10.320	9.164	8.021	6.914	7.622	8.111	8.022	6.686
<b>62.5</b>	13.738	13.309	14.292	12.499	11.481	10.181	10.994	12.080	10.863	10.186
<b>65.0</b>	17.255	17.682	18.068	16.444	14.975	13.479	14.446	16.326	15.049	13.696
<b>67.5</b>	20.747	21.941	21.253	20.306	17.917	16.924	17.914	20.003	19.114	17.266
<b>70.0</b>	24.123	25.495	24.596	24.046	20.914	20.393	21.787	23.631	22.713	20.821
<b>72.5</b>	26.809	29.083	28.319	27.833	24.666	23.946	25.688	26.818	26.249	24.322
<b>75.0</b>	29.625	32.816	32.135	31.680	28.330	27.409	29.899	30.011	29.603	27.691
<b>77.5</b>	33.003	36.529	36.127	35.276	31.328	30.631	33.987	34.040	33.026	30.679
<b>80.0</b>	35.934	40.173	39.590	38.611	34.209	33.528	37.267	37.943	36.607	33.470
<b>82.5</b>	37.435	43.052	42.227	41.166	36.510	35.721	40.381	40.105	39.514	35.821
<b>85.0</b>	38.894	43.978	43.929	43.061	38.559	37.618	42.736	42.112	41.185	37.881
<b>87.5</b>	40.249	44.523	44.429	43.988	39.687	39.004	44.601	42.958	42.540	39.414
<b>90.0</b>	40.793	44.290	44.238	44.248	40.272	39.372	44.818	43.490	43.421	39.984
<b>92.5</b>	39.708	43.609	43.322	43.743	39.325	38.321	44.518	42.441	43.414	39.128
<b>95.0</b>	38.493	42.196	42.335	42.800	38.243	37.095	42.839	41.299	42.327	38.145
<b>97.5</b>	37.070	40.668	41.286	41.372	36.868	35.664	41.108	39.813	41.086	37.009
<b>100.0</b>	35.380	38.986	39.534	39.722	35.493	34.138	39.265	38.235	39.690	35.609
<b>102.5</b>	33.337	37.115	37.281	37.784	34.118	32.519	37.351	36.402	37.681	33.945
<b>105.0</b>	30.492	35.035	35.085	35.744	32.149	30.687	35.316	31.539	35.162	31.328
<b>107.5</b>	26.768	28.990	32.921	33.329	29.316	28.688	33.006	19.829	27.543	27.930
<b>110.0</b>	18.567	19.349	30.545	30.809	23.248	26.779	30.313	10.164	16.461	18.826
<b>112.5</b>	6.366	10.967	28.068	28.768	13.339	24.931	26.968	4.176	8.561	5.909
<b>115.0</b>	1.014	3.526	22.051	26.824	7.598	22.783	22.884	0.615	2.455	1.081
<b>117.5</b>	0.718	0.638	14.712	24.434	6.015	20.479	15.664	0.574	0.544	0.747
<b>120.0</b>	0.618	0.555	8.263	21.985	4.801	17.480	5.538	0.548	0.517	0.637
<b>122.5</b>	0.636	0.532	2.067	16.974	3.887	14.189	0.925	0.542	0.482	0.625
<b>125.0</b>	0.578	0.538	0.797	11.757	2.757	8.608	0.597	0.583	0.444	0.573

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## CANDELA TABULATION - (Cont.)

127.5	0.481	0.581	0.590	6.070	1.484	2.268	0.568	0.670	0.470	0.506
130.0	0.523	0.640	0.586	0.508	0.951	0.880	0.728	0.629	0.513	0.530
132.5	0.618	0.594	0.612	0.575	0.824	0.714	0.752	0.482	0.524	0.579
135.0	0.623	0.517	0.620	0.636	0.726	0.686	0.708	0.480	0.528	0.596
137.5	0.600	0.554	0.627	0.623	0.641	0.682	0.643	0.574	0.535	0.608
140.0	0.531	0.617	0.670	0.602	0.684	0.576	0.571	0.586	0.541	0.571
142.5	0.451	0.579	0.711	0.527	0.771	0.458	0.593	0.554	0.517	0.528
145.0	0.549	0.524	0.606	0.478	0.884	0.596	0.647	0.587	0.490	0.483
147.5	0.674	0.662	0.511	0.549	1.003	0.749	0.641	0.649	0.527	0.439
150.0	0.675	0.821	0.539	0.607	0.876	0.652	0.620	0.698	0.564	0.511
152.5	0.664	0.765	0.572	0.620	0.703	0.559	0.705	0.743	0.540	0.585
155.0	0.585	0.700	0.641	0.639	0.628	0.558	0.807	0.675	0.520	0.614
157.5	0.525	0.619	0.636	0.674	0.565	0.565	0.663	0.577	0.532	0.626
160.0	0.770	0.541	0.366	0.709	0.620	0.616	0.515	0.604	0.519	0.534
162.5	0.883	0.476	0.392	0.744	0.645	0.607	0.504	0.612	0.432	0.456
165.0	0.739	0.520	0.753	0.684	0.593	0.511	0.583	0.490	0.463	0.400
167.5	0.622	0.621	0.620	0.645	0.722	0.584	0.756	0.424	0.549	0.566
170.0	0.531	0.478	0.576	0.729	0.810	0.593	0.727	0.437	0.516	0.649
172.5	0.487	0.561	0.579	0.887	0.702	0.613	0.623	0.557	0.588	0.576
175.0	0.491	0.625	0.488	0.661	0.576	0.691	0.677	0.648	0.585	0.462
177.5	0.450	0.523	0.573	0.440	0.716	0.494	0.663	0.538	0.738	0.560
180.0	0.576	0.576	0.576	0.576	0.576	0.576	0.576	0.576	0.576	0.576

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	366.690	366.690	366.690	366.690	366.690	366.690	366.690
2.5	366.930	365.363	367.177	367.463	366.877	367.365	365.839
5.0	363.991	363.818	363.001	363.956	367.155	362.668	364.523
7.5	356.479	354.135	356.662	356.748	351.652	356.151	349.694
10.0	335.586	327.813	330.201	333.731	329.103	327.588	322.058
12.5	299.906	294.764	295.225	297.578	290.811	293.468	283.674
15.0	258.950	250.356	253.428	256.413	246.841	248.177	236.986
17.5	213.235	206.935	209.355	211.862	202.637	200.850	191.535
20.0	170.906	164.860	168.504	171.016	158.371	159.445	146.870
22.5	131.139	129.408	128.474	132.219	125.501	118.725	115.535
25.0	104.421	101.326	104.249	105.699	94.920	97.846	91.116
27.5	85.702	84.451	82.865	84.667	83.164	78.230	79.460
30.0	77.404	78.048	76.286	75.397	73.980	73.132	73.041
32.5	74.223	71.548	71.447	70.220	67.522	67.999	65.292
35.0	68.046	64.977	63.668	63.149	61.267	58.974	57.114
37.5	60.670	57.264	55.708	55.570	52.593	50.040	48.742
40.0	52.097	48.837	47.009	46.667	43.865	42.083	40.323
42.5	43.158	40.032	38.308	37.504	35.172	34.220	32.090
45.0	34.663	31.034	29.694	29.208	26.633	26.955	23.890
47.5	26.271	23.553	21.293	21.023	19.984	19.805	17.620
50.0	18.630	16.682	15.127	15.061	13.537	13.155	11.569
52.5	11.111	11.118	9.456	9.257	8.526	7.631	8.085
55.0	7.532	5.967	6.892	7.291	4.688	5.872	4.740
57.5	4.343	5.954	5.353	5.550	6.583	5.473	7.459
60.0	5.989	7.169	8.451	8.438	8.871	8.556	10.218
62.5	7.858	9.981	11.657	11.373	12.551	11.618	13.738
65.0	11.271	13.057	15.224	14.898	16.192	14.637	17.255

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67.5	14.696	16.986	18.855	18.479	19.725	17.787	20.747
70.0	18.348	21.009	22.649	22.455	23.414	21.156	24.123
72.5	21.903	24.883	26.291	26.331	27.444	24.612	26.809
75.0	24.603	28.749	29.618	29.740	31.319	28.186	29.625
77.5	27.354	32.115	32.917	33.198	34.927	31.186	33.003
80.0	30.394	35.456	36.169	36.830	37.966	33.547	35.934
82.5	33.289	38.280	39.202	40.072	40.185	35.648	37.435
85.0	35.601	41.045	41.938	42.266	42.324	37.510	38.894
87.5	37.373	43.260	43.602	43.815	44.371	38.174	40.249
90.0	37.466	44.919	44.062	44.008	44.737	37.938	40.793
92.5	37.220	43.361	43.468	43.741	43.490	37.226	39.708
95.0	36.157	41.829	41.908	42.675	42.115	36.221	38.493
97.5	35.186	40.405	40.608	41.497	40.637	35.348	37.070
100.0	34.390	38.815	39.504	40.161	38.756	34.541	35.380
102.5	33.005	36.704	37.699	38.371	36.611	32.983	33.337
105.0	30.696	34.887	35.457	36.062	34.487	31.127	30.492
107.5	28.799	33.777	28.699	33.885	32.373	20.567	26.768
110.0	27.431	32.254	19.685	31.834	30.286	7.248	18.567
112.5	25.221	29.914	13.323	29.641	28.210	2.969	6.366
115.0	22.134	27.384	8.023	27.335	22.755	0.813	1.014
117.5	15.790	24.552	6.019	25.202	16.171	0.567	0.718
120.0	6.598	21.562	5.049	23.180	9.036	0.631	0.618
122.5	2.113	18.365	4.257	18.383	1.759	0.534	0.636
125.0	0.982	12.838	3.505	12.126	0.510	0.419	0.578
127.5	0.584	4.797	2.250	6.848	0.378	0.474	0.481
130.0	0.614	0.887	0.910	1.979	0.436	0.536	0.523
132.5	0.577	0.615	0.649	0.671	0.517	0.497	0.618
135.0	0.508	0.550	0.500	0.531	0.476	0.464	0.623
137.5	0.523	0.636	0.679	0.502	0.428	0.514	0.600
140.0	0.569	0.612	0.873	0.500	0.531	0.563	0.531
142.5	0.570	0.522	0.731	0.525	0.628	0.598	0.451
145.0	0.559	0.446	0.600	0.556	0.547	0.622	0.549
147.5	0.495	0.378	0.646	0.468	0.478	0.588	0.674
150.0	0.419	0.421	0.673	0.366	0.539	0.549	0.675
152.5	0.467	0.508	0.539	0.403	0.578	0.488	0.664
155.0	0.532	0.496	0.445	0.450	0.468	0.477	0.585
157.5	0.589	0.456	0.556	0.562	0.423	0.610	0.525
160.0	0.634	0.566	0.617	0.647	0.591	0.668	0.770
162.5	0.598	0.668	0.575	0.617	0.670	0.618	0.883
165.0	0.534	0.659	0.581	0.519	0.655	0.555	0.739
167.5	0.445	0.579	0.620	0.400	0.617	0.535	0.622
170.0	0.456	0.522	0.695	0.614	0.565	0.646	0.531
172.5	0.493	0.590	0.637	0.658	0.626	0.522	0.487
175.0	0.634	0.584	0.539	0.572	0.757	0.635	0.491
177.5	0.458	0.590	0.632	0.484	0.524	0.649	0.450
180.0	0.576	0.576	0.576	0.576	0.576	0.576	0.576

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Zone	Lumens	%Lamp	%Fixt
0-20	100.53	N.A.	24.90
0-30	147.93	N.A.	36.70
0-40	186.31	N.A.	46.20
0-60	215.82	N.A.	53.50
0-80	262.13	N.A.	65.00
0-90	305.94	N.A.	75.80
10-90	272.36	N.A.	67.50
20-40	85.78	N.A.	21.30
20-50	108.05	N.A.	26.80
40-70	44.68	N.A.	11.10
60-80	46.31	N.A.	11.50
70-80	31.14	N.A.	7.70
80-90	43.81	N.A.	10.90
90-110	78.11	N.A.	19.40
90-120	92.63	N.A.	23.00
90-130	96.09	N.A.	23.80
90-150	96.93	N.A.	24.00
90-180	97.42	N.A.	24.20
110-180	19.31	N.A.	4.80
0-180	403.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	33.58
10-20	66.95
20-30	47.40
30-40	38.39
40-50	22.27
50-60	7.24
60-70	15.17
70-80	31.14
80-90	43.81
90-100	43.96
100-110	34.15
110-120	14.52
120-130	3.46
130-140	0.47
140-150	0.37
150-160	0.27
160-170	0.17
170-180	0.06

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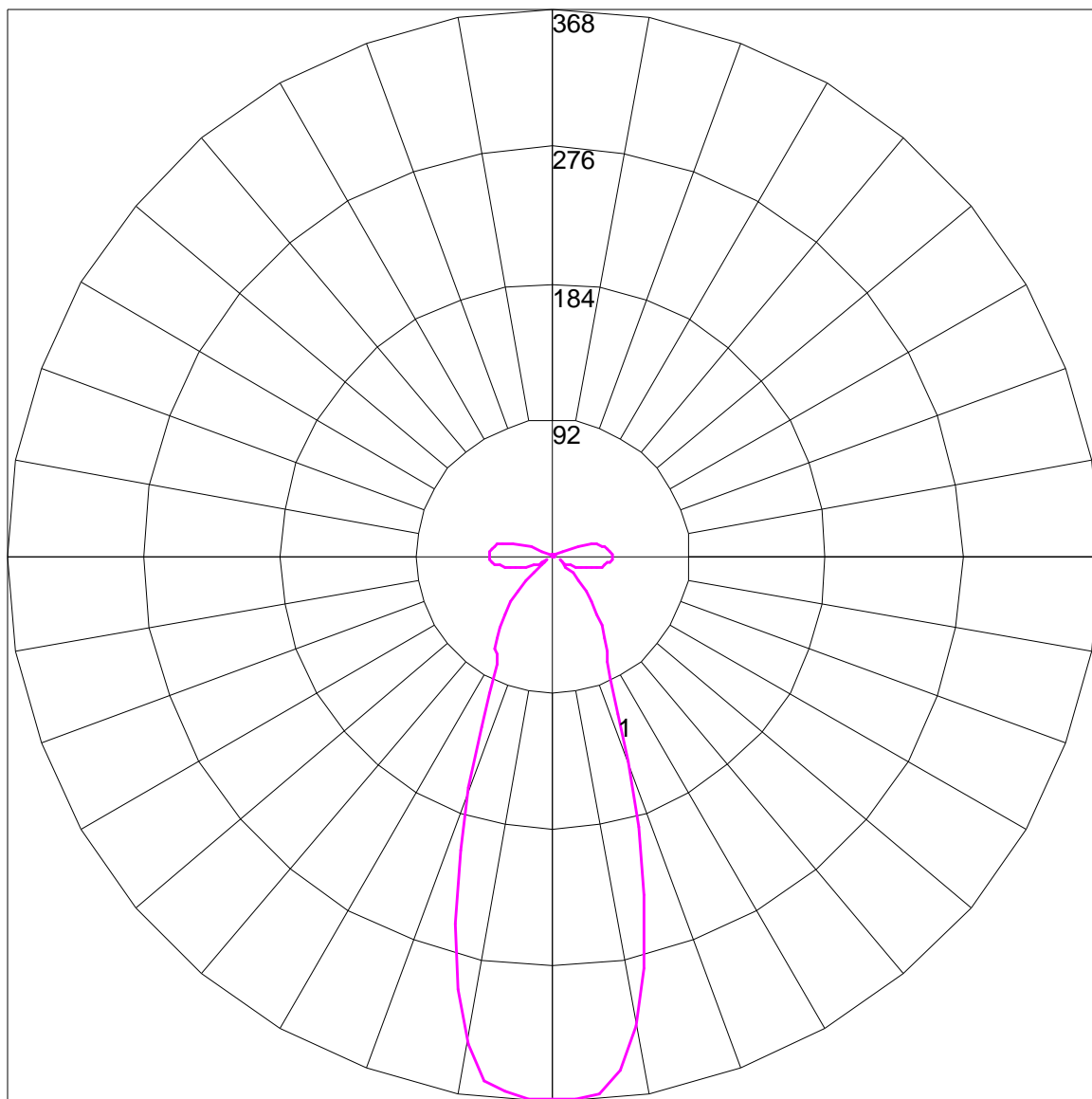
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76
1	101	95	90	86	96	91	86	82	82	78	75	74	71	68	66	64	62	58
2	93	84	77	72	88	80	74	69	73	68	64	66	62	59	60	57	54	50
3	86	76	68	62	82	73	66	60	66	61	56	61	56	52	55	51	48	45
4	80	70	62	55	76	67	59	54	61	55	50	56	51	47	51	47	44	41
5	75	64	56	50	72	61	54	49	57	51	46	52	47	43	48	44	41	38
6	71	59	51	46	68	57	50	45	53	47	42	49	44	40	45	41	38	36
7	67	55	48	42	64	53	46	41	50	44	39	46	41	38	43	39	36	34
8	63	52	44	39	60	50	43	38	47	41	37	44	39	35	41	37	34	32
9	60	48	41	36	57	47	40	36	44	38	34	41	37	33	39	35	32	30
10	57	46	39	34	55	44	38	34	42	36	32	39	35	31	37	33	30	28

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00661\_2 ~ CP0608XT-10L35K-OSDEX-NLSFA-PT.IES

POLAR GRAPH



Maximum Candela = 367.689 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)