

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00648_5
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 3/16/2018
[UPDATE] 4/30/2018
[LUMCAT] SR2DMO-XT20L-E1-RDD2F-xxK-WD-MW-SO
[LUMINAIRE] Nom. 2" Round Trim Downlight, Wide Beam
[OTHER] Matte White Trim, Solite lens
[OTHER] 40.7 Degree Beam Angle
[LAMP] N/A
[LAMPCAT] N/A, Min. 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] For New Construction Non-IC Housing: SR2DMO-XT-series
[OTHER] For RDD2F Downlight Trim
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1432
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.66
Spacing Criterion (90-270)	0.66
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.15 ft (Diameter)
Luminous Width (90-270)	0.15 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	76483	77697	80584
55	64637	67596	70457
65	51437	55129	56971
75	34015	35457	35936
85	18245	25660	21771

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES

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	2453.815	2453.815	2453.815	2453.815	2453.815	2453.815	2453.815	2453.815	2453.815	2453.815
2.5	2431.340	2428.744	2435.050	2439.498	2450.747	2422.704	2437.583	2429.954	2421.660	2422.889
5.0	2343.493	2344.846	2345.692	2343.577	2342.877	2340.847	2337.844	2335.887	2335.294	2338.956
7.5	2219.212	2220.969	2225.990	2227.314	2230.875	2207.053	2214.063	2204.543	2203.475	2204.398
10.0	2049.879	2054.335	2058.286	2056.039	2054.441	2047.242	2043.617	2039.000	2042.794	2044.535
12.5	1866.911	1870.602	1877.090	1876.182	1876.520	1860.716	1859.674	1854.937	1857.833	1860.069
15.0	1667.027	1668.253	1673.807	1673.018	1673.448	1664.058	1661.491	1658.870	1661.705	1664.665
17.5	1463.432	1464.099	1469.124	1468.596	1470.042	1456.809	1459.170	1456.280	1455.871	1458.435
20.0	1255.149	1257.976	1262.141	1260.677	1260.492	1252.014	1255.743	1254.308	1254.193	1256.930
22.5	1051.766	1056.315	1059.723	1055.875	1051.779	1049.833	1051.979	1052.685	1056.138	1060.117
25.0	854.686	859.692	864.950	859.933	858.810	856.430	858.789	861.264	864.877	868.697
27.5	673.002	679.460	683.125	675.233	668.037	672.403	668.832	675.607	679.648	682.810
30.0	511.189	517.789	523.400	522.634	522.757	514.732	518.620	519.900	519.723	520.835
32.5	374.471	381.827	384.166	383.314	379.659	386.133	380.862	381.177	382.670	383.469
35.0	270.737	275.069	280.027	283.562	286.844	281.209	283.906	278.205	275.553	273.222
37.5	189.558	191.441	194.331	196.366	195.970	202.483	200.051	196.226	195.581	190.977
40.0	138.571	134.958	140.837	146.748	150.727	145.610	149.507	144.454	140.215	134.008
42.5	103.221	98.698	102.272	106.078	106.540	112.999	109.706	110.482	107.564	103.998
45.0	88.871	86.251	90.282	92.308	93.636	91.780	91.477	91.334	88.069	85.165
47.5	77.890	77.624	80.161	80.696	80.992	83.628	80.373	81.090	80.938	78.292
50.0	71.587	73.577	73.376	75.864	76.265	76.498	74.938	74.979	74.279	71.960
52.5	65.856	68.262	67.606	70.654	71.526	70.544	71.421	71.398	68.065	66.218
55.0	60.923	61.401	63.712	64.250	66.409	65.364	66.083	66.296	62.607	60.817
57.5	55.572	55.185	59.200	58.013	61.252	61.091	60.126	60.258	57.886	55.795
60.0	49.637	49.760	53.540	52.308	54.341	55.433	53.208	53.786	52.617	50.235
62.5	43.101	43.752	46.851	46.232	47.402	48.125	45.948	47.043	46.813	44.076
65.0	35.722	37.040	38.286	38.985	39.565	41.469	39.128	39.871	39.543	37.664
67.5	29.127	30.282	30.938	31.736	32.092	35.564	32.460	32.432	30.893	30.976
70.0	23.292	23.486	25.191	24.479	27.147	28.969	27.153	26.122	24.978	25.693
72.5	18.728	19.715	19.952	19.783	21.643	21.837	22.126	20.288	20.798	21.436
75.0	14.467	15.919	15.080	16.521	15.284	16.577	17.212	15.941	16.143	16.163
77.5	9.913	9.850	11.171	10.235	11.216	12.022	12.413	11.598	11.462	11.199
80.0	7.246	6.460	7.071	6.677	8.125	8.270	8.118	7.211	6.842	7.291
82.5	4.369	3.833	4.942	4.971	5.465	6.070	5.884	5.426	5.969	4.462
85.0	2.613	2.645	3.675	3.090	3.118	3.969	3.746	3.243	3.849	3.176
87.5	1.387	1.833	2.162	1.229	2.101	2.049	2.167	2.716	2.011	1.982
90.0	0.000	0.000	0.000	0.000	0.000	1.219	1.757	1.126	1.275	1.881
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES

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	2453.815	2453.815	2453.815	2453.815	2453.815	2453.815	2453.815
2.5	2427.802	2437.270	2450.065	2424.473	2444.703	2436.487	2431.340
5.0	2338.185	2341.419	2339.989	2335.000	2343.289	2340.036	2343.493
7.5	2208.083	2214.898	2222.008	2206.732	2225.686	2218.586	2219.212
10.0	2045.053	2048.004	2046.894	2039.182	2048.834	2048.939	2049.879
12.5	1860.338	1865.434	1867.480	1856.267	1866.280	1868.081	1866.911
15.0	1663.664	1665.787	1664.567	1657.745	1662.757	1665.174	1667.027
17.5	1459.087	1459.238	1459.862	1456.432	1459.235	1461.120	1463.432
20.0	1260.503	1259.261	1259.105	1252.191	1255.716	1254.767	1255.149
22.5	1065.953	1061.950	1058.687	1051.334	1053.881	1051.527	1051.766
25.0	873.354	869.988	865.470	854.039	858.581	854.555	854.686
27.5	682.093	680.205	672.877	673.420	671.232	670.400	673.002
30.0	520.125	521.394	517.815	510.416	515.605	513.027	511.189
32.5	378.316	375.703	366.204	374.422	371.208	373.601	374.471
35.0	269.369	270.556	268.289	267.902	272.891	271.819	270.737
37.5	183.456	182.650	175.601	187.404	184.998	187.416	189.558
40.0	130.236	132.290	132.781	135.395	140.105	139.599	138.571
42.5	100.356	98.239	94.864	101.235	100.953	102.304	103.221
45.0	84.194	83.404	84.620	86.970	86.759	88.008	88.871
47.5	77.859	77.092	77.246	76.973	74.534	76.545	77.890
50.0	72.392	72.635	71.941	71.818	70.913	71.298	71.587
52.5	67.567	69.003	66.862	66.712	66.882	66.047	65.856
55.0	62.603	63.630	61.081	61.661	61.052	60.784	60.923
57.5	57.535	57.464	55.223	56.073	55.325	55.245	55.572
60.0	50.871	50.074	49.214	49.861	50.074	49.075	49.637
62.5	43.015	42.115	43.187	43.234	44.410	42.399	43.101
65.0	36.014	35.710	35.915	36.131	36.951	34.626	35.722

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES****CANDELA TABULATION - (Cont.)**

67.5	29.636	30.003	28.504	29.876	30.026	27.786	29.127
70.0	24.282	24.399	23.451	24.287	24.401	22.238	23.292
72.5	19.391	18.917	18.694	18.386	19.389	18.099	18.728
75.0	15.299	15.250	14.754	12.984	14.853	14.341	14.467
77.5	11.532	11.427	10.755	9.118	10.506	9.499	9.913
80.0	8.141	7.575	7.394	7.073	7.551	6.000	7.246
82.5	4.703	4.547	5.319	4.811	4.680	3.997	4.369
85.0	3.746	2.765	3.493	2.183	3.163	2.182	2.613
87.5	2.179	1.461	1.752	1.489	2.053	1.651	1.387
90.0	1.315	1.254	1.880	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-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	673.64	N.A.	47.00
0-30	1066.23	N.A.	74.40
0-40	1245.98	N.A.	87.00
0-60	1374.65	N.A.	96.00
0-80	1428.51	N.A.	99.70
0-90	1432.33	N.A.	100.00
10-90	1218.02	N.A.	85.00
20-40	572.34	N.A.	40.00
20-50	644.79	N.A.	45.00
40-70	166.10	N.A.	11.60
60-80	53.86	N.A.	3.80
70-80	16.43	N.A.	1.10
80-90	3.82	N.A.	0.30
90-110	0.10	N.A.	0.00
90-120	0.10	N.A.	0.00
90-130	0.10	N.A.	0.00
90-150	0.10	N.A.	0.00
90-180	0.10	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1432.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	214.31
10-20	459.33
20-30	392.59
30-40	179.75
40-50	72.45
50-60	56.22
60-70	37.43
70-80	16.43
80-90	3.82
90-100	0.10
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

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES

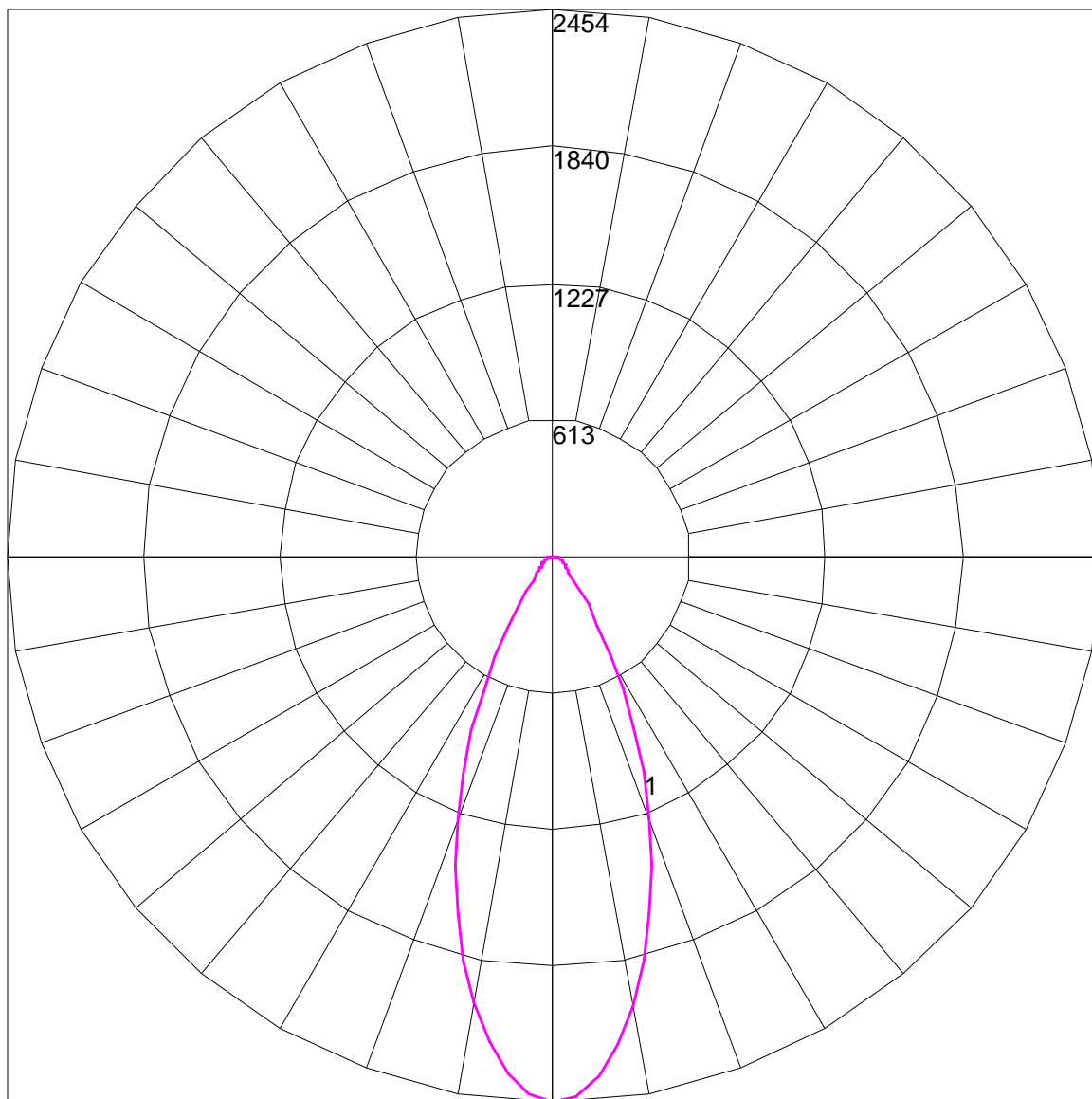
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86
3	102	95	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	68	63	60	59
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	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-00648_5 ~ SR2DMO-XT20L-E1-RDD2F-XXK-WDMWSO.IES

POLAR GRAPH



Maximum Candela = 2453.815 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)