

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00381\_1 ~ SV1411GV-27L35K-TF2-MWI.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00381\_1\_M-27L  
 [TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 4/20/2018  
 [UPDATE] 7/5/2018  
 [LUMCAT] SV1411GV-27L-35K-EX-TF2-MWI  
 [LUMINAIRE] Nom. 14" diam x 11.4" H, classic bell shape  
 [OTHER] Regressed, 6" diam. low profile frosted glass diffuser  
 [OTHER] Reflector: Matte White interior finish  
 [OTHER] Beam Angle: 99.5 degrees  
 [LAMP] N/A, Gen3  
 [LAMPCAT] N/A  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] CCT Multipliers: 27K x 0.971, 30K x 0.985, 40K x 1.03  
 [OTHER] This report generated by Spectrum Lighting, scaled from 55L  
 [\_CRI]85+

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1905
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.16
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.24 ft (Diameter)
Luminous Width (90-270)	1.24 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00381\_1 ~ SV1411GV-27L35K-TF2-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6839	6904	6971
55	4564	4426	4457
65	2095	2079	2081
75	1486	1520	1553
85	1078	1074	1111

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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>	886.809	886.809	886.809	886.809	886.809	886.809	886.809	886.809	886.809	886.809
<b>2.5</b>	881.758	883.671	884.250	885.480	887.069	886.068	885.955	885.786	885.241	884.423
<b>5.0</b>	875.944	879.433	879.540	883.158	885.064	884.709	884.009	883.285	883.525	880.802
<b>7.5</b>	863.855	868.044	870.064	874.786	876.443	876.136	877.380	876.838	875.248	871.284
<b>10.0</b>	850.750	856.121	857.946	865.719	866.743	867.013	869.395	867.720	866.534	860.820
<b>12.5</b>	834.259	839.232	842.452	850.424	853.221	853.134	857.071	854.659	851.662	845.131
<b>15.0</b>	816.350	821.644	824.634	834.758	838.483	838.464	843.189	839.376	836.418	828.627
<b>17.5</b>	794.966	800.467	804.506	814.756	820.658	819.732	825.744	821.551	817.524	809.218
<b>20.0</b>	772.669	778.810	782.704	794.513	801.311	800.199	806.497	801.573	798.090	788.560
<b>22.5</b>	748.719	755.503	759.627	771.771	779.124	777.968	784.138	779.703	775.635	764.772
<b>25.0</b>	725.528	732.053	736.430	748.896	755.960	755.101	761.185	756.691	752.837	741.103
<b>27.5</b>	703.376	708.252	713.163	725.280	731.379	730.714	737.442	732.901	728.804	717.662
<b>30.0</b>	681.211	685.238	690.593	701.850	707.380	706.434	713.568	708.913	704.690	694.062
<b>32.5</b>	659.030	663.656	668.331	679.078	684.028	682.347	689.560	684.821	680.367	670.232
<b>35.0</b>	637.543	642.181	645.992	656.454	660.826	658.182	665.132	659.882	656.002	646.715
<b>37.5</b>	616.632	620.855	623.629	634.209	637.752	633.912	640.368	634.619	631.553	623.540
<b>40.0</b>	594.472	598.602	601.080	611.115	612.757	608.385	613.836	608.431	606.359	599.648
<b>42.5</b>	571.511	575.341	578.491	586.410	586.475	581.531	586.222	581.991	580.087	575.132
<b>45.0</b>	543.061	547.315	548.215	556.838	553.509	546.729	552.598	546.971	547.885	542.833
<b>47.5</b>	511.935	515.318	516.930	520.197	517.177	505.298	516.230	510.421	509.032	505.381
<b>50.0</b>	449.049	455.937	444.744	461.423	448.666	437.206	445.767	433.588	445.958	439.058
<b>52.5</b>	374.906	378.901	370.310	377.726	368.327	352.157	363.672	353.002	361.736	358.368
<b>55.0</b>	294.000	298.708	285.098	296.618	287.091	273.673	283.050	272.865	283.170	280.085
<b>57.5</b>	211.411	216.964	203.070	217.745	205.618	198.316	202.771	194.367	208.375	202.708
<b>60.0</b>	164.149	165.672	160.225	164.099	159.959	153.075	159.482	155.101	160.108	158.350
<b>62.5</b>	122.477	125.269	120.364	127.342	120.309	118.617	121.344	117.797	125.354	122.620
<b>65.0</b>	99.445	100.282	98.650	101.556	98.769	96.430	100.029	97.065	101.109	99.940
<b>67.5</b>	78.171	79.147	78.960	81.333	78.987	77.247	80.181	77.886	80.819	79.457
<b>70.0</b>	64.061	64.798	65.567	66.656	65.591	63.990	65.965	64.566	66.564	66.817
<b>72.5</b>	51.715	52.334	53.965	53.808	53.696	52.030	53.490	53.126	53.777	54.871
<b>75.0</b>	43.191	44.897	44.184	45.173	45.147	43.228	44.586	43.842	43.727	44.398
<b>77.5</b>	34.295	35.469	34.587	36.012	35.459	33.753	34.231	33.673	33.611	34.305
<b>80.0</b>	25.191	25.743	25.564	26.650	25.840	24.278	24.459	24.109	23.995	25.051
<b>82.5</b>	16.646	17.790	17.405	18.055	17.399	15.857	16.251	15.953	15.952	17.057
<b>85.0</b>	10.547	11.525	10.511	11.284	10.878	9.624	9.486	9.827	9.621	9.897
<b>87.5</b>	5.573	5.073	5.614	5.850	4.868	3.979	4.296	3.674	4.700	4.369
<b>90.0</b>	0.903	0.693	0.575	0.299	0.502	0.348	0.327	0.383	0.093	0.435
<b>92.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>95.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>97.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>100.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>102.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>105.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>107.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>110.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>112.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>115.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>117.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>120.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>122.5</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>125.0</b>	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. 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	886.809	886.809	886.809	886.809	886.809	886.809	886.809
2.5	883.724	881.940	881.862	881.697	880.887	881.384	881.758
5.0	879.479	875.699	875.208	875.798	873.985	874.511	875.944
7.5	869.221	864.317	862.456	863.513	861.553	863.543	863.855
10.0	856.982	851.286	849.375	850.523	848.769	851.447	850.750
12.5	841.573	834.301	832.016	833.648	830.932	834.941	834.259
15.0	825.443	816.341	814.320	815.903	812.826	817.658	816.350
17.5	804.803	796.592	793.576	794.994	791.549	795.834	794.966
20.0	783.553	775.077	772.353	773.426	770.099	773.593	772.669
22.5	759.801	751.117	748.652	750.153	747.626	750.805	748.719
25.0	735.898	727.303	725.152	726.928	724.968	727.996	725.528
27.5	712.006	703.641	702.340	703.797	701.597	705.043	703.376
30.0	688.212	680.654	679.998	681.379	678.769	682.256	681.211
32.5	665.655	658.231	658.805	659.999	657.412	660.868	659.030
35.0	643.274	636.797	637.607	638.985	636.207	639.437	637.543
37.5	622.054	615.995	616.399	618.384	615.303	617.790	616.632
40.0	600.319	594.542	594.811	597.113	593.873	596.063	594.472
42.5	576.481	572.772	572.689	575.261	571.636	574.071	571.511
45.0	548.574	542.685	544.687	548.849	544.697	548.619	543.061
47.5	509.265	509.609	510.364	519.332	512.248	514.896	511.935
50.0	455.557	441.666	452.238	461.560	456.736	465.223	449.049
52.5	371.549	365.104	373.912	389.292	380.487	386.876	374.906
55.0	291.982	285.410	295.608	309.795	302.435	308.402	294.000
57.5	219.418	205.225	217.319	227.583	223.107	229.755	211.411
60.0	164.413	162.513	166.443	176.134	169.613	170.756	164.149
62.5	130.503	122.756	128.882	133.057	129.928	132.531	122.477
65.0	103.606	101.105	103.450	107.062	103.349	103.872	99.445

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**CANDELA TABULATION - (Cont.)**

67.5	83.260	80.415	82.427	84.018	81.885	82.980	78.171
70.0	67.913	66.736	67.442	68.688	66.867	66.883	64.061
72.5	55.116	54.560	54.158	55.023	53.594	52.893	51.715
75.0	45.543	44.950	44.974	45.800	43.837	43.843	43.191
77.5	35.582	34.846	35.288	35.742	34.603	34.799	34.295
80.0	25.343	25.496	25.531	26.112	25.581	25.821	25.191
82.5	16.746	17.241	16.747	17.967	16.679	17.210	16.646
85.0	10.732	9.963	10.857	10.792	11.226	11.829	10.547
87.5	5.096	4.960	5.261	5.406	5.665	5.880	5.573
90.0	0.201	0.536	0.476	0.805	0.792	0.389	0.903
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

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Zone	Lumens	%Lamp	%Fixt
0-20	315.94	N.A.	16.60
0-30	656.95	N.A.	34.50
0-40	1062.65	N.A.	55.80
0-60	1741.96	N.A.	91.40
0-80	1892.94	N.A.	99.30
0-90	1905.28	N.A.	100.00
10-90	1822.04	N.A.	95.60
20-40	746.71	N.A.	39.20
20-50	1164.2	N.A.	61.10
40-70	783.20	N.A.	41.10
60-80	150.97	N.A.	7.90
70-80	47.08	N.A.	2.50
80-90	12.35	N.A.	0.60
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1905.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	83.24
10-20	232.70
20-30	341.01
30-40	405.70
40-50	417.50
50-60	261.82
60-70	103.89
70-80	47.08
80-90	12.35
90-100	0.07
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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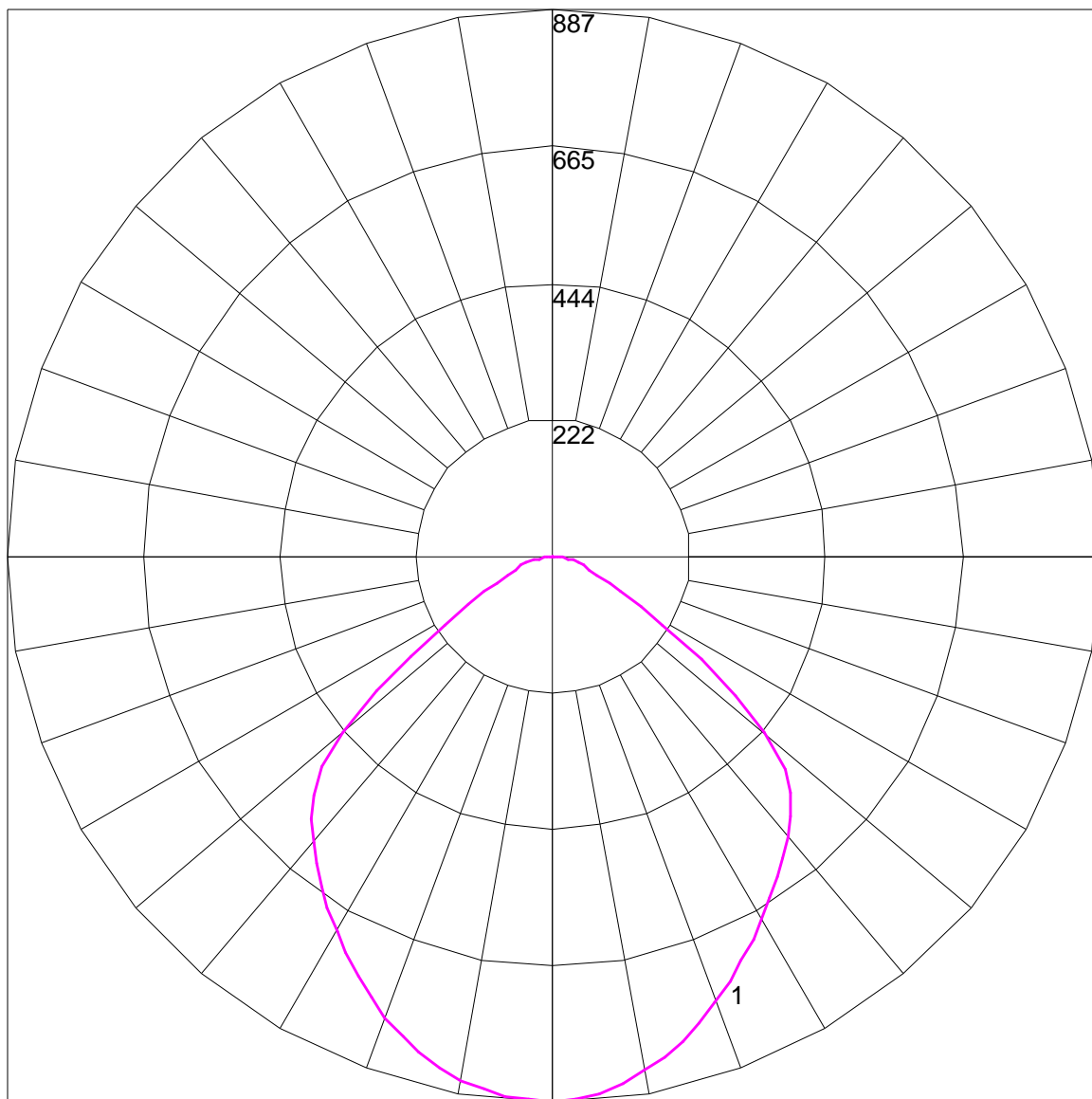
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76
3	94	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	49	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	63	52	44	39	50	44	39	49	43	38	48	42	38	36
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00381\_1 ~ SV1411GV-27L35K-TF2-MWI.IES

POLAR GRAPH



Maximum Candela = 887.069 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)