

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_18 ~ SGE8BX80L-35KXW-DO101-AR8BXSGWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00621_18
[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 6/7/2018
[UPDATE] 7/13/2018
[LUMCAT] SGE8BX-80L-35K-XW-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, Xtra Wide Beam
[OTHER] 65.1 Deg Beam Angle
[LAMPCAT] N/A
[LAMP] N/A, Bridgelux Vero 29
[OTHER] Dimmable driver tested at 100% output
[OTHER] Tested CCT: 3500K
[_CCTMULT] 27K x 0.932, 30K x 1.00, 40K x 1.01
[_CRI] 80
[_LAMPMULT] 60L x 0.76, 70L x 0.864
[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6406
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)	1.08
Spacing Criterion (90-270)	1.10
Spacing Criterion (Diagonal)	0.96
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_18 ~ SGE8BX80L-35KXW-DO101-AR8BXSGWF.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18236	18243	18676
55	712	420	414
65	80	73	149
75	123	126	168
85	336	424	317

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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	6430.476	6430.476	6430.476	6430.476	6430.476	6430.476	6430.476	6430.476	6430.476	6430.476
2.5	6416.377	6425.761	6421.613	6415.962	6421.368	6341.589	6360.451	6383.246	6399.643	6413.129
5.0	6343.475	6368.439	6346.375	6356.022	6340.299	6255.103	6291.384	6306.030	6340.736	6344.019
7.5	6265.356	6278.516	6251.553	6261.212	6248.304	6159.764	6207.768	6221.463	6263.904	6264.058
10.0	6181.076	6174.047	6147.839	6153.117	6149.492	6055.031	6108.153	6126.455	6168.645	6173.063
12.5	6073.826	6060.471	6018.350	6028.586	6026.327	5927.680	5988.312	6013.830	6063.675	6061.188
15.0	5943.265	5932.460	5879.113	5892.401	5890.255	5779.697	5862.771	5879.757	5944.408	5931.066
17.5	5838.214	5796.771	5754.656	5743.831	5745.619	5656.577	5731.042	5782.261	5818.798	5823.252
20.0	5755.414	5719.428	5634.781	5628.569	5597.160	5552.930	5615.866	5723.018	5715.865	5732.168
22.5	5590.634	5668.228	5527.952	5543.732	5476.553	5367.053	5516.134	5514.209	5621.294	5498.340
25.0	5364.495	5392.777	5424.361	5337.937	5366.288	5126.035	5187.640	5170.952	5200.452	5172.963
27.5	4908.597	5033.705	4921.338	5037.269	4934.111	4538.975	4675.796	4606.906	4681.259	4622.296
30.0	4305.647	4364.311	4341.679	4398.897	4404.166	3751.926	3896.798	3872.474	3925.875	3948.751
32.5	3437.114	3600.225	3355.615	3533.736	3444.855	2774.792	2934.371	2933.828	3113.709	3016.849
35.0	2424.034	2598.404	2312.466	2568.590	2379.667	1704.691	2034.933	1858.795	2141.395	1966.077
37.5	1624.341	1537.650	1561.716	1545.573	1603.602	1100.187	1172.374	1174.207	1139.480	1271.215
40.0	922.607	1024.865	838.252	977.385	882.608	686.444	723.391	711.750	753.703	712.919
42.5	579.547	617.108	594.130	632.004	602.053	453.732	479.462	452.833	450.504	451.766
45.0	373.779	420.892	373.933	418.969	382.805	282.276	313.837	291.829	306.083	284.186
47.5	238.047	254.352	247.021	260.250	250.865	169.002	181.184	175.750	175.538	173.642
50.0	124.311	150.290	122.955	152.209	126.969	71.663	96.923	77.753	98.798	77.508
52.5	61.641	52.048	63.175	61.348	65.401	32.634	29.532	33.720	24.449	36.893
55.0	11.833	24.984	6.987	25.842	6.877	6.163	9.611	7.596	12.676	7.159
57.5	2.700	1.462	4.017	5.529	3.707	2.068	3.132	1.730	1.574	2.781
60.0	1.510	1.151	1.324	1.654	1.115	1.678	1.659	1.293	1.332	2.060
62.5	1.182	1.069	1.101	1.328	1.500	1.450	1.307	1.053	1.096	1.814
65.0	0.978	1.162	0.898	1.244	1.829	1.242	1.105	0.854	0.930	1.614
67.5	1.087	1.239	0.823	1.200	1.378	1.295	0.929	0.903	0.806	1.241
70.0	1.227	1.109	0.775	1.280	0.991	1.367	0.953	0.990	1.025	0.858
72.5	1.083	0.986	0.851	1.375	1.146	0.971	1.003	0.814	1.200	1.189
75.0	0.923	0.922	0.948	1.070	1.259	0.575	1.005	0.608	1.116	1.513
77.5	0.848	0.848	1.118	0.763	1.135	0.840	0.993	0.696	1.045	1.414
80.0	0.776	0.737	1.111	1.145	1.065	1.009	0.660	0.810	1.015	1.326
82.5	0.715	0.892	0.828	1.229	1.106	0.832	0.580	0.989	1.007	1.276
85.0	0.850	1.190	1.070	0.849	0.802	0.803	0.905	1.110	1.004	1.147
87.5	0.912	1.029	1.363	0.751	0.848	0.831	0.985	1.152	0.938	0.975
90.0	0.973	0.929	0.623	0.306	0.507	0.710	0.268	0.722	0.871	0.840
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	6430.476	6430.476	6430.476	6430.476	6430.476	6430.476	6430.476
2.5	6413.742	6420.701	6415.587	6400.739	6402.079	6402.424	6416.377
5.0	6360.433	6350.163	6359.040	6362.643	6340.154	6350.100	6343.475
7.5	6289.358	6270.424	6279.563	6288.985	6267.843	6273.906	6265.356
10.0	6201.160	6186.080	6185.254	6207.359	6190.457	6182.725	6181.076
12.5	6089.859	6071.334	6075.813	6121.018	6079.213	6085.046	6073.826
15.0	5961.524	5943.822	5952.050	5999.441	5954.112	5956.678	5943.265
17.5	5813.468	5817.828	5815.729	5860.202	5830.985	5817.269	5838.214
20.0	5686.600	5692.361	5698.426	5739.770	5708.526	5730.386	5755.414
22.5	5580.811	5478.929	5595.432	5627.248	5556.932	5658.909	5590.634
25.0	5250.911	5240.670	5235.546	5366.108	5397.368	5334.354	5364.495
27.5	4729.411	4668.472	4710.324	5053.218	4892.868	4950.835	4908.597
30.0	4038.722	4021.822	4000.006	4452.783	4314.196	4327.688	4305.647
32.5	3223.955	3066.425	3188.361	3771.023	3491.556	3661.870	3437.114
35.0	2299.691	2058.882	2253.336	2802.715	2629.477	2650.728	2424.034
37.5	1306.799	1348.113	1261.322	1770.370	1750.271	1595.444	1624.341
40.0	775.200	672.785	774.940	1154.699	869.134	1063.404	922.607
42.5	489.227	462.595	483.388	609.605	596.376	574.111	579.547
45.0	314.464	286.806	316.940	413.023	364.892	401.555	373.779
47.5	189.583	182.642	190.070	258.214	245.691	241.418	238.047
50.0	105.340	81.202	107.479	159.908	130.130	146.648	124.311
52.5	36.269	42.680	36.131	65.805	69.766	54.444	61.641
55.0	13.474	5.792	15.193	33.545	12.147	27.356	11.833
57.5	4.818	3.935	4.195	3.478	6.800	2.269	2.700
60.0	2.492	2.212	2.501	2.407	1.929	1.592	1.510
62.5	1.711	1.986	2.158	1.372	2.001	0.984	1.182
65.0	1.384	1.738	1.727	1.121	2.006	0.919	0.978

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67.5	1.142	1.335	1.287	0.899	1.548	0.876	1.087
70.0	0.927	0.994	1.244	1.008	1.170	0.957	1.227
72.5	0.715	0.982	1.223	1.084	1.201	1.002	1.083
75.0	0.853	1.025	1.455	0.914	1.222	0.888	0.923
77.5	1.017	1.285	1.641	0.806	1.211	0.809	0.848
80.0	1.012	1.366	1.314	0.930	1.076	0.817	0.776
82.5	1.006	1.150	1.098	0.857	0.742	0.876	0.715
85.0	1.007	0.884	1.053	0.763	1.024	0.872	0.850
87.5	1.140	1.182	1.133	1.185	0.860	0.646	0.912
90.0	0.261	0.493	0.903	0.731	0.563	0.828	0.973
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_18 ~ SGE8BX80L-35KXW-DO101-AR8BXSGWF.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2270.51	N.A.	35.40
0-30	4629.5	N.A.	72.30
0-40	6078.47	N.A.	94.90
0-60	6402.8	N.A.	99.90
0-80	6405.2	N.A.	100.00
0-90	6406.22	N.A.	100.00
10-90	5806.77	N.A.	90.60
20-40	3807.96	N.A.	59.40
20-50	4105.48	N.A.	64.10
40-70	325.63	N.A.	5.10
60-80	2.39	N.A.	0.00
70-80	1.09	N.A.	0.00
80-90	1.02	N.A.	0.00
90-110	0.09	N.A.	0.00
90-120	0.09	N.A.	0.00
90-130	0.09	N.A.	0.00
90-150	0.09	N.A.	0.00
90-180	0.09	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	6406.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	599.45
10-20	1671.06
20-30	2358.99
30-40	1448.98
40-50	297.52
50-60	26.81
60-70	1.30
70-80	1.09
80-90	1.02
90-100	0.09
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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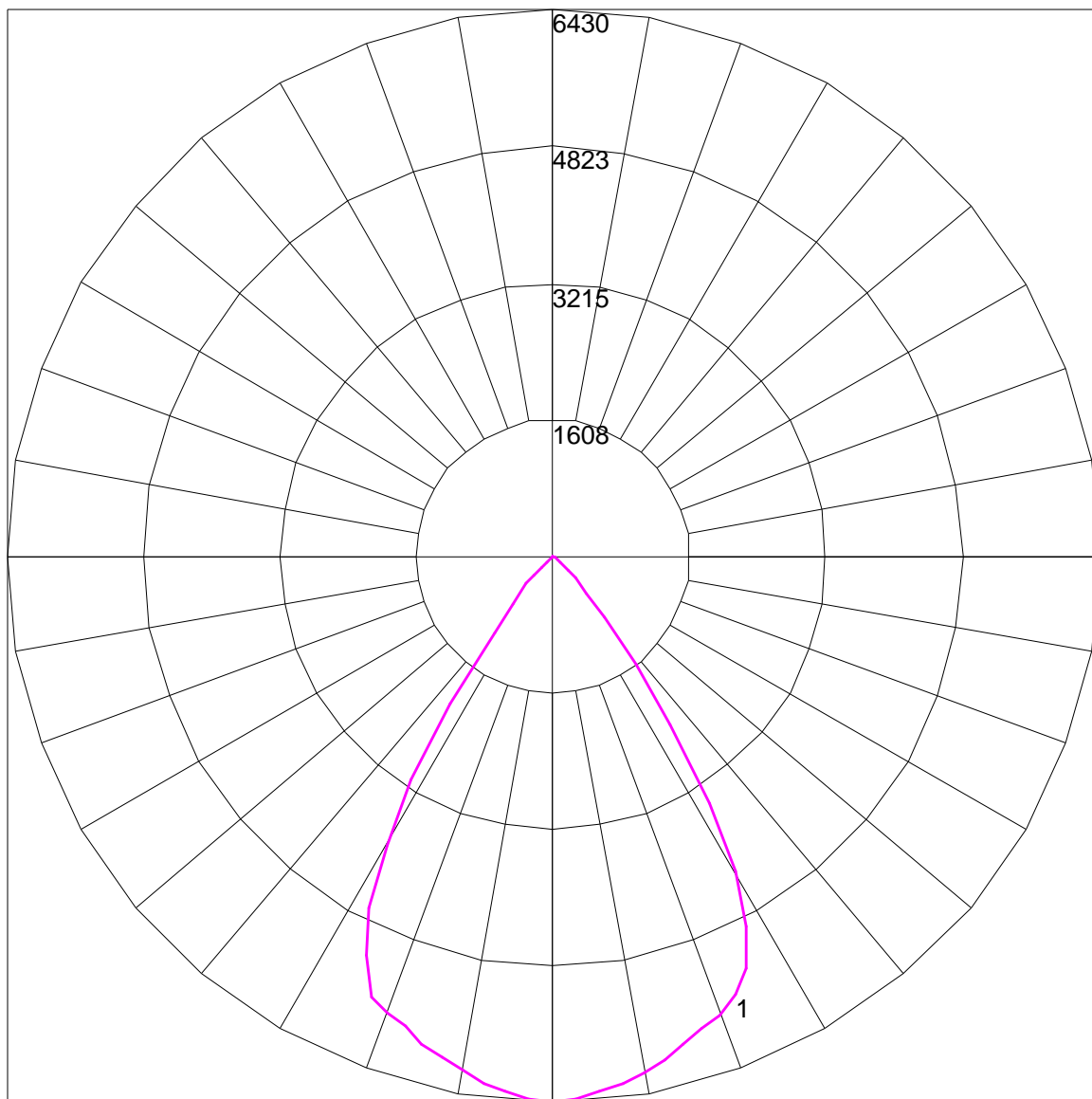
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	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	86	78	72	68	77	72	68	75	71	67	74	70	67	66
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	63	58	55	54
10	72	62	56	52	71	62	56	52	61	56	52	60	55	52	59	55	52	50

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00621_18 ~ SGE8BX80L-35KXW-DO101-AR8BXSGWF.IES

POLAR GRAPH



Maximum Candela = 6430.476 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)