

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : PRSUR22LEDGV-27L35K-EX-PR22CNFR.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[LUMCAT] PRDDH22LEDGV-27L-35K-Ex/xx/xx/PR22/CNFR/XX  
[LUMINAIRE] LED High Bay - Prismatic Refractor Conical Lens, inside frosted  
[LAMP] N/A  
[TEST] PRDDH22LEDGV-27L-35KEx/xx/xx/PR22/CNFR/XX  
[TESTLAB] Intertek  
[ISSUE DATE] 10/27/2015  
[UPDATE] 7/30/2018  
[MANUFAC] Spectrum Lighting  
[OTHER] Total Luminaire Watts is approximate  
[\_CCTMULT] 50K x 1.07, 40K X 1.03, 30K X 0.983, 27K X 0.967  
[\_LAMPMULT] 15L x 0.26, 27L x 0.45, 37L x 0.67  
[\_CRI] 80  
[OTHER] Scaled from 220L (172W) report

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	18
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.24
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	1.87 ft (Diameter)
Luminous Width (90-270)	1.87 ft (Diameter)
Luminous Height	1.21 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1041	1060	1044
55	395	361	390
65	174	184	177
75	129	127	128
85	105	99	107

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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>	910.754	910.754	910.754	910.754	910.754	910.754	910.754	910.754	910.754	910.754
<b>2.5</b>	904.973	907.666	908.121	908.724	905.674	908.724	908.121	907.666	904.973	907.666
<b>5.0</b>	896.719	897.666	897.347	894.936	893.534	894.936	897.347	897.666	896.719	897.666
<b>7.5</b>	917.654	918.084	916.805	908.367	912.771	908.367	916.805	918.084	917.654	918.084
<b>10.0</b>	949.818	967.727	980.113	949.880	940.864	949.880	980.113	967.727	949.818	967.727
<b>12.5</b>	989.092	1002.462	1007.087	986.780	978.650	986.780	1007.087	1002.462	989.092	1002.462
<b>15.0</b>	1039.682	1018.120	1015.427	1021.515	1037.726	1021.515	1015.427	1018.120	1039.682	1018.120
<b>17.5</b>	1074.503	1024.762	1011.281	1050.605	1079.239	1050.605	1011.281	1024.762	1074.503	1024.762
<b>20.0</b>	1068.427	1034.774	1007.296	1059.682	1081.810	1059.682	1007.296	1034.774	1068.427	1034.774
<b>22.5</b>	1029.129	1039.215	1034.971	1023.975	1038.698	1023.975	1034.971	1039.215	1029.129	1039.215
<b>25.0</b>	991.823	1032.105	1054.934	1004.861	990.630	1004.861	1054.934	1032.105	991.823	1032.105
<b>27.5</b>	991.183	1026.546	1025.476	995.722	983.065	995.722	1025.476	1026.546	991.183	1026.546
<b>30.0</b>	949.031	962.045	950.052	951.048	935.390	951.048	950.052	962.045	949.031	962.045
<b>32.5</b>	858.749	854.186	833.436	850.115	841.320	850.115	833.436	854.186	858.749	854.186
<b>35.0</b>	761.432	728.185	714.753	733.523	753.904	733.523	714.753	728.185	761.432	728.185
<b>37.5</b>	644.213	633.032	625.664	631.642	636.267	631.642	625.664	633.032	644.213	633.032
<b>40.0</b>	506.145	548.777	558.826	527.289	514.374	527.289	558.826	548.777	506.145	548.777
<b>42.5</b>	425.371	455.506	466.502	435.924	431.865	435.924	466.502	455.506	425.371	455.506
<b>45.0</b>	342.789	355.618	348.976	348.767	344.006	348.767	348.976	355.618	342.789	355.618
<b>47.5</b>	254.831	276.184	273.933	263.724	259.788	263.724	273.933	276.184	254.831	276.184
<b>50.0</b>	198.436	209.727	211.794	205.066	199.531	205.066	211.794	209.727	198.436	209.727
<b>52.5</b>	158.030	155.128	154.759	158.633	156.333	158.633	154.759	155.128	158.030	155.128
<b>55.0</b>	125.940	117.920	115.042	123.369	124.316	123.369	115.042	117.920	125.940	117.920
<b>57.5</b>	101.414	94.944	91.930	97.920	100.245	97.920	91.930	94.944	101.414	94.944
<b>60.0</b>	82.164	79.347	76.764	80.073	81.844	80.073	76.764	79.347	82.164	79.347
<b>62.5</b>	65.608	65.534	66.211	64.969	66.014	64.969	66.211	65.534	65.608	65.534
<b>65.0</b>	51.869	54.514	55.043	53.517	52.865	53.517	55.043	54.514	51.869	54.514
<b>67.5</b>	45.289	47.613	48.216	46.482	45.756	46.482	48.216	47.613	45.289	47.613
<b>70.0</b>	41.193	42.693	43.358	41.918	41.390	41.918	43.358	42.693	41.193	42.693
<b>72.5</b>	37.515	38.032	38.548	37.663	37.466	37.663	38.548	38.032	37.515	38.032
<b>75.0</b>	34.674	33.665	34.194	33.850	34.366	33.850	34.194	33.665	34.674	33.665
<b>77.5</b>	32.300	29.840	30.283	30.356	31.882	30.356	30.283	29.840	32.300	29.840
<b>80.0</b>	29.729	27.060	27.085	27.872	29.545	27.872	27.085	27.060	29.729	27.060
<b>82.5</b>	26.888	25.400	24.539	26.162	27.109	26.162	24.539	25.400	26.888	25.400
<b>85.0</b>	24.416	23.813	22.878	24.514	24.797	24.514	22.878	23.813	24.416	23.813
<b>87.5</b>	23.825	22.952	22.374	23.038	23.997	23.038	22.374	22.952	23.825	22.952
<b>90.0</b>	24.256	22.976	22.792	23.505	23.973	23.505	22.792	22.976	24.256	22.976
<b>92.5</b>	24.071	24.379	23.973	24.711	23.628	24.711	23.973	24.379	24.071	24.379
<b>95.0</b>	23.124	24.920	25.486	24.108	22.706	24.108	25.486	24.920	23.124	24.920
<b>97.5</b>	22.681	24.489	26.051	23.714	22.718	23.714	26.051	24.489	22.681	24.489
<b>100.0</b>	23.653	25.104	25.855	24.440	23.776	24.440	25.855	25.104	23.653	25.104
<b>102.5</b>	24.526	25.572	25.793	25.338	24.711	25.338	25.793	25.572	24.526	25.572
<b>105.0</b>	25.277	25.941	26.248	25.769	25.277	25.769	26.248	25.941	25.277	25.941
<b>107.5</b>	25.732	26.224	26.371	26.125	25.682	26.125	26.371	26.224	25.732	26.224
<b>110.0</b>	26.015	26.396	26.285	26.236	26.125	26.236	26.285	26.396	26.015	26.396
<b>112.5</b>	26.187	26.531	26.445	26.322	26.224	26.322	26.445	26.531	26.187	26.531
<b>115.0</b>	26.728	27.072	27.048	26.679	26.617	26.679	27.048	27.072	26.728	27.072
<b>117.5</b>	27.491	27.872	27.663	27.380	27.355	27.380	27.663	27.872	27.491	27.872
<b>120.0</b>	28.229	28.721	28.339	28.056	27.995	28.056	28.339	28.721	28.229	28.721
<b>122.5</b>	28.696	29.348	28.979	28.573	28.487	28.573	28.979	29.348	28.696	29.348
<b>125.0</b>	28.893	29.680	29.446	28.893	28.671	28.893	29.446	29.680	28.893	29.680

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**CANDELA TABULATION - (Cont.)**

127.5	29.028	29.877	30.000	29.188	28.819	29.188	30.000	29.877	29.028	29.877
130.0	29.225	30.283	30.812	29.643	29.114	29.643	30.812	30.283	29.225	30.283
132.5	29.434	30.762	31.451	30.160	29.471	30.160	31.451	30.762	29.434	30.762
135.0	29.717	31.107	31.894	30.689	30.000	30.689	31.894	31.107	29.717	31.107
137.5	30.197	31.550	32.201	31.304	30.676	31.304	32.201	31.550	30.197	31.550
140.0	30.898	31.980	32.509	31.931	31.476	31.931	32.509	31.980	30.898	31.980
142.5	32.017	32.411	32.743	32.718	32.595	32.718	32.743	32.411	32.017	32.411
145.0	33.677	33.173	33.272	33.948	34.083	33.948	33.272	33.173	33.677	33.173
147.5	35.252	34.477	34.354	35.424	35.768	35.424	34.354	34.477	35.252	34.477
150.0	37.490	36.888	36.937	37.884	38.278	37.884	36.937	36.888	37.490	36.888
152.5	40.688	40.332	40.455	41.094	41.242	41.094	40.455	40.332	40.688	40.332
155.0	42.743	43.333	43.825	43.628	43.247	43.628	43.825	43.333	42.743	43.333
157.5	43.628	44.981	45.744	45.166	44.747	45.166	45.744	44.981	43.628	44.981
160.0	44.686	45.239	45.805	45.535	45.645	45.535	45.805	45.239	44.686	45.239
162.5	45.399	44.723	44.907	44.723	45.535	44.723	44.907	44.723	45.399	44.723
165.0	45.276	44.034	43.985	43.997	44.932	43.997	43.985	44.034	45.276	44.034
167.5	44.907	43.776	43.517	43.751	44.465	43.751	43.517	43.776	44.907	43.776
170.0	44.046	43.407	43.087	43.382	43.800	43.382	43.087	43.407	44.046	43.407
172.5	43.394	43.358	42.915	43.198	43.407	43.198	42.915	43.358	43.394	43.358
175.0	45.498	46.076	46.027	45.990	45.658	45.990	46.027	46.076	45.498	46.076
177.5	50.578	51.918	52.410	51.881	51.107	51.881	52.410	51.918	50.578	51.918
180.0	54.243	54.243	54.243	54.243	54.243	54.243	54.243	54.243	54.243	54.243

**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	910.754	910.754	910.754	910.754	910.754	910.754	910.754
2.5	908.121	908.724	905.674	908.724	908.121	907.666	904.973
5.0	897.347	894.936	893.534	894.936	897.347	897.666	896.719
7.5	916.805	908.367	912.771	908.367	916.805	918.084	917.654
10.0	980.113	949.880	940.864	949.880	980.113	967.727	949.818
12.5	1007.087	986.780	978.650	986.780	1007.087	1002.462	989.092
15.0	1015.427	1021.515	1037.726	1021.515	1015.427	1018.120	1039.682
17.5	1011.281	1050.605	1079.239	1050.605	1011.281	1024.762	1074.503
20.0	1007.296	1059.682	1081.810	1059.682	1007.296	1034.774	1068.427
22.5	1034.971	1023.975	1038.698	1023.975	1034.971	1039.215	1029.129
25.0	1054.934	1004.861	990.630	1004.861	1054.934	1032.105	991.823
27.5	1025.476	995.722	983.065	995.722	1025.476	1026.546	991.183
30.0	950.052	951.048	935.390	951.048	950.052	962.045	949.031
32.5	833.436	850.115	841.320	850.115	833.436	854.186	858.749
35.0	714.753	733.523	753.904	733.523	714.753	728.185	761.432
37.5	625.664	631.642	636.267	631.642	625.664	633.032	644.213
40.0	558.826	527.289	514.374	527.289	558.826	548.777	506.145
42.5	466.502	435.924	431.865	435.924	466.502	455.506	425.371
45.0	348.976	348.767	344.006	348.767	348.976	355.618	342.789
47.5	273.933	263.724	259.788	263.724	273.933	276.184	254.831
50.0	211.794	205.066	199.531	205.066	211.794	209.727	198.436
52.5	154.759	158.633	156.333	158.633	154.759	155.128	158.030
55.0	115.042	123.369	124.316	123.369	115.042	117.920	125.940
57.5	91.930	97.920	100.245	97.920	91.930	94.944	101.414
60.0	76.764	80.073	81.844	80.073	76.764	79.347	82.164
62.5	66.211	64.969	66.014	64.969	66.211	65.534	65.608
65.0	55.043	53.517	52.865	53.517	55.043	54.514	51.869

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**CANDELA TABULATION - (Cont.)**

67.5	48.216	46.482	45.756	46.482	48.216	47.613	45.289
70.0	43.358	41.918	41.390	41.918	43.358	42.693	41.193
72.5	38.548	37.663	37.466	37.663	38.548	38.032	37.515
75.0	34.194	33.850	34.366	33.850	34.194	33.665	34.674
77.5	30.283	30.356	31.882	30.356	30.283	29.840	32.300
80.0	27.085	27.872	29.545	27.872	27.085	27.060	29.729
82.5	24.539	26.162	27.109	26.162	24.539	25.400	26.888
85.0	22.878	24.514	24.797	24.514	22.878	23.813	24.416
87.5	22.374	23.038	23.997	23.038	22.374	22.952	23.825
90.0	22.792	23.505	23.973	23.505	22.792	22.976	24.256
92.5	23.973	24.711	23.628	24.711	23.973	24.379	24.071
95.0	25.486	24.108	22.706	24.108	25.486	24.920	23.124
97.5	26.051	23.714	22.718	23.714	26.051	24.489	22.681
100.0	25.855	24.440	23.776	24.440	25.855	25.104	23.653
102.5	25.793	25.338	24.711	25.338	25.793	25.572	24.526
105.0	26.248	25.769	25.277	25.769	26.248	25.941	25.277
107.5	26.371	26.125	25.682	26.125	26.371	26.224	25.732
110.0	26.285	26.236	26.125	26.236	26.285	26.396	26.015
112.5	26.445	26.322	26.224	26.322	26.445	26.531	26.187
115.0	27.048	26.679	26.617	26.679	27.048	27.072	26.728
117.5	27.663	27.380	27.355	27.380	27.663	27.872	27.491
120.0	28.339	28.056	27.995	28.056	28.339	28.721	28.229
122.5	28.979	28.573	28.487	28.573	28.979	29.348	28.696
125.0	29.446	28.893	28.671	28.893	29.446	29.680	28.893
127.5	30.000	29.188	28.819	29.188	30.000	29.877	29.028
130.0	30.812	29.643	29.114	29.643	30.812	30.283	29.225
132.5	31.451	30.160	29.471	30.160	31.451	30.762	29.434
135.0	31.894	30.689	30.000	30.689	31.894	31.107	29.717
137.5	32.201	31.304	30.676	31.304	32.201	31.550	30.197
140.0	32.509	31.931	31.476	31.931	32.509	31.980	30.898
142.5	32.743	32.718	32.595	32.718	32.743	32.411	32.017
145.0	33.272	33.948	34.083	33.948	33.272	33.173	33.677
147.5	34.354	35.424	35.768	35.424	34.354	34.477	35.252
150.0	36.937	37.884	38.278	37.884	36.937	36.888	37.490
152.5	40.455	41.094	41.242	41.094	40.455	40.332	40.688
155.0	43.825	43.628	43.247	43.628	43.825	43.333	42.743
157.5	45.744	45.166	44.747	45.166	45.744	44.981	43.628
160.0	45.805	45.535	45.645	45.535	45.805	45.239	44.686
162.5	44.907	44.723	45.535	44.723	44.907	44.723	45.399
165.0	43.985	43.997	44.932	43.997	43.985	44.034	45.276
167.5	43.517	43.751	44.465	43.751	43.517	43.776	44.907
170.0	43.087	43.382	43.800	43.382	43.087	43.407	44.046
172.5	42.915	43.198	43.407	43.198	42.915	43.358	43.394
175.0	46.027	45.990	45.658	45.990	46.027	46.076	45.498
177.5	52.410	51.881	51.107	51.881	52.410	51.918	50.578
180.0	54.243	54.243	54.243	54.243	54.243	54.243	54.243

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	376.84	N.A.	18.80
0-30	845.66	N.A.	42.30
0-40	1304.9	N.A.	65.20
0-60	1693.82	N.A.	84.60
0-80	1786.38	N.A.	89.30
0-90	1813.22	N.A.	90.60
10-90	1725.49	N.A.	86.20
20-40	928.06	N.A.	46.40
20-50	1202.28	N.A.	60.10
40-70	445.11	N.A.	22.20
60-80	92.56	N.A.	4.60
70-80	36.37	N.A.	1.80
80-90	26.84	N.A.	1.30
90-110	53.60	N.A.	2.70
90-120	80.41	N.A.	4.00
90-130	106.58	N.A.	5.30
90-150	151.74	N.A.	7.60
90-180	188.32	N.A.	9.40
110-180	134.72	N.A.	6.70
0-180	2001.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	87.73
10-20	289.10
20-30	468.83
30-40	459.24
40-50	274.22
50-60	114.70
60-70	56.19
70-80	36.37
80-90	26.84
90-100	26.43
100-110	27.17
110-120	26.81
120-130	26.16
130-140	23.92
140-150	21.25
150-160	19.63
160-170	12.62
170-180	4.33

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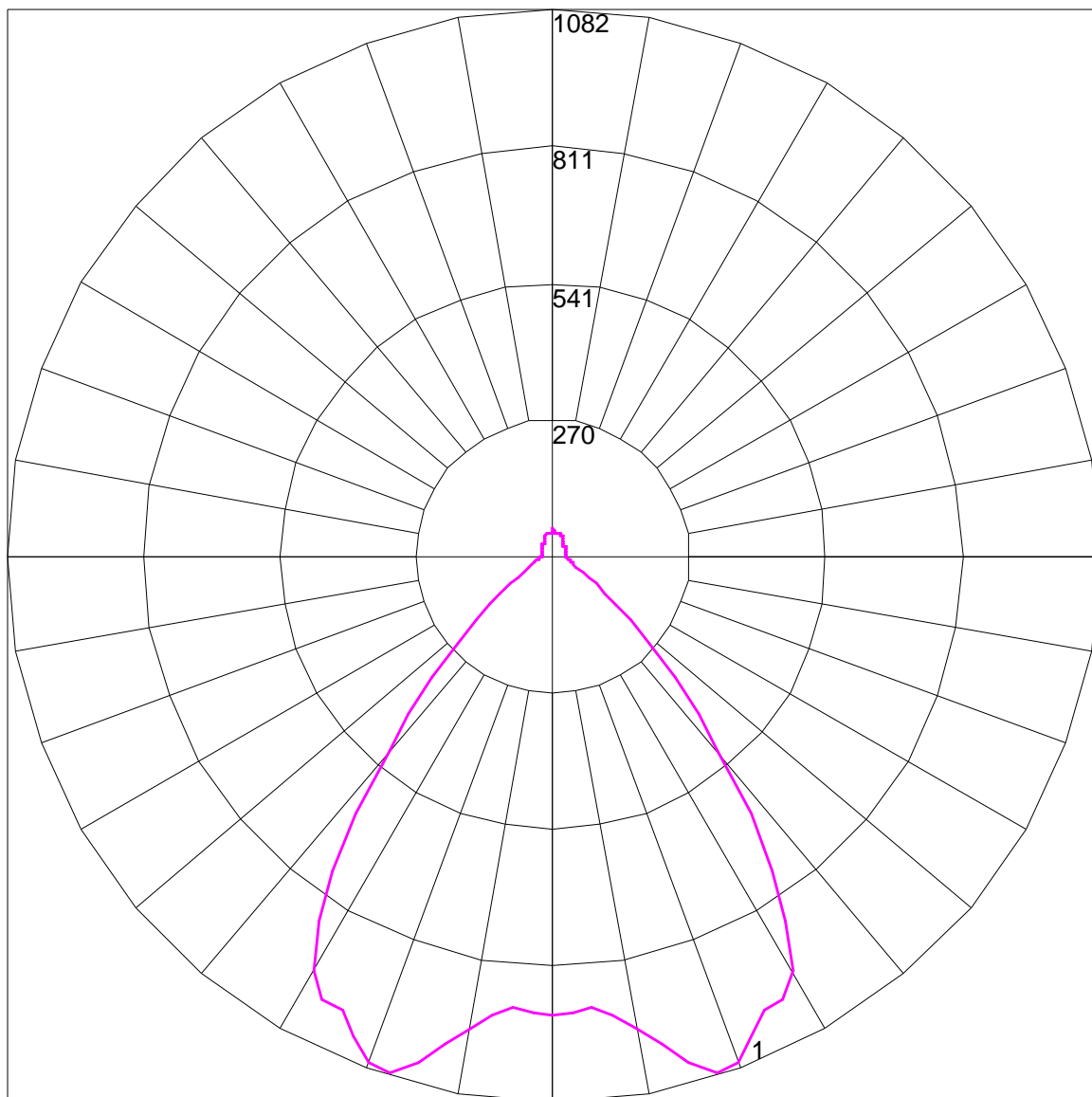
**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	91
1	109	105	102	99	105	102	99	97	96	94	92	91	89	87	86	85	83	81
2	102	95	90	85	98	93	88	84	88	84	80	83	80	77	79	77	74	72
3	95	86	80	75	92	84	78	74	80	75	71	76	72	69	73	69	67	64
4	88	79	72	66	85	77	70	65	73	68	63	70	65	62	67	63	60	58
5	82	72	64	59	80	70	63	58	67	61	57	64	59	55	62	58	54	52
6	77	66	58	53	75	64	57	52	62	56	51	59	54	50	57	53	49	47
7	72	61	53	48	70	59	52	48	57	51	47	55	50	46	53	48	45	43
8	67	56	49	44	66	55	48	43	53	47	42	51	46	42	49	45	41	39
9	63	52	45	40	62	51	44	40	49	43	39	47	42	38	46	41	38	36
10	60	48	41	37	58	47	41	36	46	40	36	44	39	35	43	38	35	33

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : PRSUR22LEDGV-27L35K-EX-PR22CNFR.IES

POLAR GRAPH



Maximum Candela = 1081.81 Located At Horizontal Angle = 90, Vertical Angle = 20  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)