



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AIWP33-8-L6-835-S-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13362254.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 3-JUN-2020

[MANUFAC] H E Williams Inc

[LUMCAT] AIWP33-8-L6/835-S-DIM-UNV

[LUMINAIRE] Formed white steel housing, prismatic lens enclosure

[LAMP] 112 White LEDs

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4811
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Semi-Indirect
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	8.00 ft
Luminous Height	0.00 ft



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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2209	1693	798
55	2599	1869	640
65	3138	2102	473
75	4215	2519	385
85	9232	4668	448

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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>
0.0	224.694	224.694	224.694	224.694	224.694	224.694	224.694	224.694	224.694
0.5	222.727	226.169	225.800	227.029	228.873	225.185	222.358	221.621	218.425
1.0	224.939	228.504	227.398	227.889	228.873	224.202	220.514	219.162	216.212
1.5	227.029	230.717	229.119	228.750	228.873	223.219	218.671	216.950	214.000
2.0	229.242	233.052	230.839	229.610	228.750	222.112	216.827	214.614	211.787
2.5	231.454	235.264	232.314	230.471	228.627	221.129	214.983	212.156	209.698
3.0	233.544	237.600	233.912	231.208	228.504	220.023	213.139	209.943	207.362
3.5	235.756	239.812	235.510	231.946	228.381	219.039	211.296	207.485	205.273
4.0	237.969	242.025	237.108	232.683	228.135	217.810	209.329	205.150	202.937
4.5	240.058	244.237	238.706	233.421	227.889	216.704	207.485	202.814	200.602
5.0	242.394	246.327	240.181	234.035	227.644	215.475	205.518	200.356	198.512
5.5	244.606	248.540	241.656	234.650	227.398	214.246	203.552	198.020	196.177
6.0	247.065	250.752	243.131	235.264	227.029	213.016	201.585	195.685	193.964
6.5	249.400	252.719	244.606	235.879	226.537	211.787	199.618	193.350	191.752
7.0	251.858	254.808	245.958	236.494	226.169	210.558	197.652	190.891	189.539
7.5	254.194	257.021	247.433	236.985	225.800	209.206	195.685	188.433	187.204
8.0	256.529	258.988	248.785	237.477	225.308	207.854	193.718	186.097	185.114
8.5	258.865	260.954	250.138	237.846	224.816	206.625	191.752	183.639	182.779
9.0	261.200	262.921	251.367	238.337	224.202	205.273	189.662	181.304	180.566
9.5	263.413	264.888	252.596	238.829	223.710	203.920	187.695	178.968	178.354
10.0	265.502	266.731	253.948	239.075	223.096	202.568	185.729	176.633	176.141
10.5	267.715	268.575	255.054	239.444	222.604	201.093	183.762	174.174	173.806
11.0	269.804	270.419	256.283	239.812	221.866	199.741	181.672	171.839	171.593
11.5	271.771	272.263	257.390	240.058	221.252	198.266	179.583	169.504	169.258
12.0	273.861	274.106	258.496	240.304	220.514	196.668	177.493	167.168	166.922
12.5	275.827	275.704	259.602	240.550	219.777	195.193	175.526	164.833	164.587
13.0	277.917	277.548	260.586	240.673	219.039	193.718	173.437	162.497	162.251
13.5	279.884	279.146	261.692	240.796	218.302	192.243	171.347	160.162	159.916
14.0	281.850	280.744	262.552	240.919	217.441	190.645	169.258	157.949	157.458
14.5	283.694	282.465	263.658	241.042	216.704	189.047	167.168	155.491	155.245
15.0	285.661	284.063	264.519	241.165	215.843	187.449	165.078	153.278	152.910
15.5	287.627	285.661	265.379	241.165	214.983	185.852	162.989	150.943	150.574
16.0	289.594	287.259	266.240	241.165	214.246	184.131	160.899	148.607	148.116
16.5	291.438	288.734	266.977	241.042	213.262	182.533	158.810	146.272	145.780
17.0	293.282	290.209	267.838	241.042	212.402	180.812	156.597	143.937	143.568
17.5	295.125	291.684	268.575	240.919	211.541	179.091	154.508	141.601	141.110
18.0	296.969	293.036	269.313	240.796	210.558	177.493	152.418	139.389	138.774
18.5	298.690	294.388	270.050	240.673	209.575	175.772	150.328	137.053	136.439
19.0	300.411	295.740	270.788	240.550	208.591	174.051	148.239	134.718	133.980
19.5	302.009	296.969	271.525	240.427	207.608	172.331	146.026	132.505	131.522
20.0	303.975	298.198	272.017	240.181	206.502	170.610	143.937	130.170	129.064
20.5	305.819	299.428	272.631	239.935	205.395	168.766	141.847	127.957	126.605
21.0	307.540	300.657	273.246	239.812	204.412	167.045	139.757	125.745	124.270
21.5	309.015	302.009	273.861	239.444	203.183	165.201	137.545	123.409	121.811
22.0	310.490	303.115	274.352	239.198	202.077	163.358	135.455	121.197	119.353
22.5	311.965	304.221	274.967	238.829	200.848	161.637	133.366	118.984	116.895
23.0	313.686	305.450	275.459	238.460	199.618	159.670	131.153	116.895	114.559
23.5	315.161	306.557	275.827	238.215	198.389	157.826	128.941	114.682	112.101
24.0	316.882	307.786	276.319	237.723	197.037	155.983	126.851	112.593	109.643
24.5	318.480	308.892	276.811	237.354	195.685	154.016	124.761	110.380	107.430
25.0	319.832	309.998	277.179	236.985	194.456	152.172	122.672	108.290	104.972
25.5	321.061	311.105	277.548	236.494	193.104	150.205	120.582	106.078	102.513
26.0	322.413	312.088	277.794	236.125	191.752	148.239	118.493	103.865	100.178
26.5	323.642	313.071	278.040	235.633	190.277	146.395	116.403	101.776	97.842

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**CANDELA TABULATION - (Cont.)**

27.0	325.117	313.932	278.286	234.896	188.802	144.305	114.191	99.563	95.630
27.5	326.469	314.792	278.532	234.281	187.327	142.339	112.101	97.351	93.172
28.0	327.822	315.776	278.777	233.544	185.852	140.372	109.888	95.261	90.959
28.5	328.928	316.636	279.023	232.806	184.377	138.405	107.799	93.049	88.624
29.0	329.665	317.619	279.269	232.192	182.902	136.439	105.709	90.959	86.411
29.5	330.403	318.480	279.146	231.331	181.181	134.349	103.620	88.747	84.199
30.0	331.263	319.217	278.900	230.594	179.706	132.382	101.407	86.657	81.986
30.5	332.124	319.463	278.777	229.733	177.985	130.293	99.440	84.567	79.774
31.0	333.107	319.832	278.777	228.996	176.387	128.203	97.228	82.478	77.561
31.5	334.090	320.324	278.900	228.135	174.789	126.236	95.138	80.388	75.471
32.0	334.705	320.938	279.269	227.152	173.068	124.147	93.049	78.176	73.382
32.5	335.197	321.921	279.638	226.414	171.470	122.057	90.959	76.209	71.292
33.0	335.811	322.782	279.761	225.431	169.626	119.968	88.747	74.119	69.203
33.5	336.549	323.396	279.392	224.325	168.028	117.878	86.657	72.030	67.113
34.0	337.286	323.274	278.163	223.096	166.062	115.911	84.567	69.940	65.146
34.5	338.147	322.536	277.302	221.744	164.341	113.822	82.355	67.973	63.180
35.0	338.884	322.290	276.934	220.514	162.620	111.732	80.265	65.884	61.213
35.5	339.130	322.536	276.442	219.408	160.653	109.643	78.299	63.917	59.246
36.0	339.130	322.782	275.950	218.179	158.810	107.553	76.209	61.951	57.403
36.5	339.376	322.905	275.336	216.950	156.843	105.463	74.119	60.107	55.559
37.0	339.622	322.536	274.844	215.721	154.999	103.374	72.153	58.140	53.838
37.5	339.990	321.921	274.229	214.368	153.033	101.284	70.186	56.296	51.994
38.0	340.482	321.307	273.492	213.016	151.066	99.318	68.219	54.575	50.396
38.5	340.851	321.061	272.631	211.664	149.099	97.228	66.253	52.732	48.675
39.0	340.851	321.184	271.771	210.189	147.132	95.384	64.409	51.011	47.077
39.5	340.851	321.553	270.911	208.714	145.043	93.295	62.565	49.290	45.480
40.0	340.974	321.553	269.927	207.239	143.076	91.205	60.721	47.692	44.005
40.5	340.974	320.692	268.944	205.764	140.987	89.361	58.878	46.094	42.530
41.0	341.342	319.586	267.838	204.166	139.020	87.394	57.034	44.496	41.055
41.5	341.465	318.726	266.731	202.691	137.053	85.428	55.313	43.021	39.702
42.0	341.465	318.111	265.748	201.093	134.964	83.461	53.592	41.546	38.227
42.5	340.974	317.742	264.642	199.373	132.874	81.494	51.871	40.194	36.875
43.0	340.482	317.374	263.904	197.775	130.784	79.651	50.150	38.842	35.523
43.5	340.113	316.759	264.027	196.054	128.695	77.684	48.552	37.490	34.294
44.0	339.867	316.267	263.536	194.456	126.728	75.840	47.077	36.261	33.065
44.5	339.745	315.653	262.061	192.735	124.639	73.874	45.480	35.032	31.836
45.0	339.376	315.038	260.094	191.137	122.549	72.030	44.005	33.802	30.729
45.5	338.884	314.423	258.496	189.539	120.459	70.186	42.652	32.696	29.623
46.0	338.270	313.809	257.144	187.818	118.247	68.342	41.300	31.467	28.517
46.5	337.901	313.071	256.160	186.220	116.280	66.498	39.948	30.361	27.411
47.0	337.532	312.334	255.177	184.499	114.191	64.778	38.596	29.254	26.304
47.5	337.286	311.473	254.194	182.779	112.101	62.934	37.367	28.148	25.321
48.0	337.040	310.736	252.719	181.181	109.888	61.213	36.261	27.165	24.338
48.5	336.426	309.876	251.367	179.706	107.799	59.492	35.032	26.181	23.477
49.0	335.565	309.015	249.892	178.354	105.586	57.771	34.048	25.198	22.494
49.5	334.828	308.155	248.663	176.510	103.374	56.050	32.942	24.215	21.634
50.0	334.090	307.294	247.433	174.420	101.284	54.330	31.836	23.231	20.773
50.5	333.599	306.311	246.081	172.454	99.072	52.732	30.852	22.371	19.913
51.0	332.738	305.328	244.852	170.487	96.859	51.134	29.869	21.511	19.052
51.5	331.878	304.098	243.500	168.520	94.770	49.536	28.763	20.650	18.192
52.0	330.772	302.992	242.025	166.676	92.557	48.061	27.779	19.790	17.454
52.5	329.665	301.886	240.550	164.833	90.345	46.463	26.673	19.052	16.717
53.0	328.559	300.657	239.198	162.989	88.132	44.865	25.813	18.315	15.979
53.5	327.699	299.305	237.723	161.145	86.042	43.390	24.829	17.454	15.365
54.0	326.592	297.953	236.371	159.056	83.953	41.915	23.969	16.840	14.627
54.5	325.240	297.092	234.896	156.843	81.863	40.563	23.109	16.102	14.013

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**CANDELA TABULATION - (Cont.)**

55.0	323.765	296.969	232.929	154.630	79.774	39.211	22.125	15.365	13.398
55.5	322.413	296.600	230.839	152.541	77.684	37.859	21.265	14.750	12.783
56.0	321.061	294.634	228.996	150.451	75.594	36.507	20.527	14.136	12.292
56.5	319.709	291.561	227.152	148.362	73.628	35.277	19.667	13.521	11.677
57.0	318.234	288.980	225.308	146.149	71.661	34.048	18.929	12.906	11.186
57.5	316.513	287.504	223.341	144.060	69.694	32.819	18.192	12.415	10.694
58.0	314.792	286.398	221.375	141.847	67.728	31.713	17.577	11.923	10.202
58.5	313.194	285.046	219.408	139.512	65.761	30.607	16.840	11.431	9.710
59.0	311.596	282.588	217.441	137.299	63.794	29.500	16.225	10.940	9.342
59.5	309.876	280.007	215.475	135.209	61.951	28.517	15.488	10.448	8.973
60.0	307.909	278.532	213.385	132.874	59.984	27.411	14.873	10.079	8.604
60.5	306.065	276.934	211.296	130.662	58.140	26.427	14.258	9.710	8.235
61.0	304.098	274.844	209.329	128.326	56.296	25.444	13.767	9.219	7.990
61.5	302.378	272.263	207.485	126.114	54.453	24.584	13.275	8.850	7.621
62.0	300.534	270.665	205.764	123.778	52.732	23.600	12.783	8.604	7.375
62.5	298.567	269.927	203.798	121.689	51.134	22.740	12.292	8.235	7.129
63.0	296.477	268.944	200.970	119.599	49.413	21.879	11.800	7.990	6.883
63.5	294.388	266.117	199.250	117.263	47.815	21.019	11.308	7.744	6.638
64.0	292.421	262.429	198.389	114.682	46.340	20.281	10.940	7.498	6.392
64.5	290.332	259.602	196.668	112.224	44.742	19.544	10.571	7.252	6.146
65.0	288.119	257.390	192.981	109.888	43.390	18.806	10.202	7.006	6.023
65.5	285.907	255.054	189.785	107.553	41.915	18.069	9.833	6.883	5.777
66.0	283.694	252.842	187.449	105.340	40.563	17.331	9.465	6.638	5.654
66.5	281.482	250.629	185.114	102.882	39.211	16.594	9.096	6.515	5.408
67.0	279.269	248.417	182.656	100.547	37.982	15.979	8.850	6.269	5.285
67.5	276.934	246.081	180.320	98.211	36.752	15.242	8.604	6.146	5.163
68.0	274.475	243.500	177.862	95.876	35.523	14.627	8.235	6.023	5.040
68.5	272.017	241.165	175.281	93.540	34.417	14.013	7.990	5.777	4.917
69.0	269.559	238.583	172.699	91.205	33.311	13.398	7.744	5.654	4.794
69.5	267.100	236.002	170.487	88.869	32.204	12.906	7.621	5.531	4.671
70.0	264.519	233.544	168.520	86.411	31.098	12.415	7.375	5.408	4.548
70.5	261.938	230.839	166.062	84.076	29.992	11.923	7.129	5.285	4.425
71.0	259.233	228.258	162.989	81.740	29.009	11.431	7.006	5.163	4.302
71.5	256.529	225.554	160.899	79.651	28.025	10.940	6.883	5.040	4.179
72.0	253.948	222.850	159.301	77.315	27.042	10.571	6.638	4.917	4.056
72.5	251.121	220.269	156.105	74.857	26.181	10.079	6.515	4.917	4.056
73.0	248.294	217.441	152.418	72.521	25.198	9.710	6.392	4.794	4.056
73.5	245.590	214.737	149.714	70.309	24.338	9.342	6.269	4.671	3.933
74.0	242.762	211.910	146.887	68.219	23.477	9.096	6.146	4.671	3.810
74.5	239.935	209.083	144.182	66.130	22.617	8.727	6.023	4.548	3.810
75.0	236.985	206.256	141.601	64.040	21.634	8.481	5.900	4.548	3.688
75.5	234.035	203.306	138.897	62.073	20.650	8.235	5.777	4.425	3.688
76.0	231.208	200.479	136.316	60.107	19.790	7.990	5.777	4.425	3.565
76.5	228.258	197.775	133.489	58.386	18.929	7.744	5.654	4.302	3.565
77.0	225.308	195.808	130.784	56.542	18.069	7.498	5.654	4.302	3.565
77.5	222.358	194.702	128.203	54.944	17.331	7.375	5.531	4.179	3.565
78.0	219.408	191.260	125.868	53.223	16.594	7.129	5.531	4.179	3.442
78.5	216.458	186.712	123.901	51.625	15.979	7.006	5.408	4.179	3.442
79.0	213.385	184.131	120.582	50.150	15.488	6.883	5.408	4.179	3.442
79.5	210.312	181.918	117.509	48.675	14.750	6.760	5.285	4.179	3.442
80.0	207.362	178.231	114.682	47.200	14.136	6.638	5.285	4.179	3.442
80.5	204.043	174.543	111.978	45.848	13.521	6.515	5.285	4.056	3.442
81.0	200.970	171.716	109.274	44.619	12.906	6.392	5.285	4.056	3.442
81.5	197.775	168.397	106.570	43.267	12.415	6.392	5.163	4.179	3.442
82.0	194.456	165.447	103.865	41.915	11.800	6.269	5.163	4.056	3.442
82.5	191.260	164.218	101.161	40.686	11.186	6.269	5.163	4.179	3.442

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**CANDELA TABULATION - (Cont.)**

83.0	187.941	161.391	98.580	39.579	10.571	6.146	5.163	4.179	3.565
83.5	184.622	156.474	96.367	38.350	9.956	6.146	5.163	4.179	3.565
84.0	181.427	152.418	95.015	37.121	9.465	6.023	5.163	4.179	3.688
84.5	177.985	149.222	91.574	36.015	8.973	6.023	5.163	4.302	3.810
85.0	174.789	146.149	88.378	34.909	8.481	6.023	5.285	4.302	3.933
85.5	171.347	143.322	85.797	33.802	8.113	6.023	5.285	4.425	4.056
86.0	168.028	140.372	83.338	32.696	7.744	6.023	5.408	4.548	4.302
86.5	164.956	137.422	81.003	31.590	7.498	6.023	5.408	4.671	4.548
87.0	161.514	133.980	78.667	30.484	7.252	6.023	5.531	4.917	4.794
87.5	158.318	131.030	76.455	29.377	7.006	6.023	5.777	5.040	5.040
88.0	155.122	128.080	74.242	28.394	6.883	6.146	5.900	5.408	5.285
88.5	151.926	125.007	72.276	27.411	6.760	6.146	6.146	5.654	5.654
89.0	148.853	122.180	70.678	26.427	6.760	6.515	6.515	6.023	6.023
89.5	145.535	119.353	68.219	25.690	7.867	8.235	7.621	6.883	6.760
90.0	137.545	112.224	61.213	19.913	3.073	5.285	5.408	6.023	7.252
90.5	134.349	109.643	59.738	20.527	5.531	9.342	9.096	9.096	11.431
91.0	131.399	107.307	59.123	23.600	8.850	13.767	14.258	13.767	17.577
91.5	128.695	105.586	60.107	27.902	13.767	19.913	20.773	20.281	25.198
92.0	126.482	105.095	63.180	34.171	19.544	27.042	28.640	28.025	33.802
92.5	125.253	106.447	68.219	41.546	25.567	33.925	36.875	36.384	42.161
93.0	125.499	109.766	75.103	49.044	31.713	40.317	44.619	44.865	50.150
93.5	127.834	115.051	82.969	56.542	38.104	46.340	51.994	52.978	58.017
94.0	132.628	121.934	91.451	63.917	44.373	52.363	59.000	60.721	65.884
94.5	139.020	129.924	100.424	71.292	50.765	58.509	65.515	68.219	73.505
95.0	146.764	138.405	109.397	78.790	57.280	64.532	71.907	75.349	80.388
95.5	155.368	147.501	118.493	86.411	63.794	70.801	77.930	81.986	86.780
96.0	164.218	156.597	127.834	94.032	70.309	77.069	83.953	88.378	92.803
96.5	173.560	165.939	137.053	101.653	76.946	83.461	89.976	94.524	99.318
97.0	183.147	175.526	146.518	109.397	83.584	89.730	96.122	100.547	105.463
97.5	192.612	185.483	156.105	117.141	90.222	96.122	102.145	106.570	111.486
98.0	202.568	195.808	166.062	125.253	96.982	102.513	108.290	112.716	117.386
98.5	212.893	206.133	176.141	133.366	103.743	108.782	114.313	118.861	123.286
99.0	223.341	216.827	186.466	141.478	110.380	115.051	120.459	124.761	129.432
99.5	234.404	227.889	197.037	149.714	117.263	121.443	126.728	130.907	135.701
100.0	245.467	239.321	208.100	158.072	123.901	127.834	132.874	137.053	141.724
100.5	257.144	251.367	219.408	166.553	130.662	134.226	139.143	143.199	147.870
101.0	269.559	264.027	231.331	175.281	137.545	140.495	145.289	149.468	153.770
101.5	282.465	276.811	243.377	184.377	144.305	146.764	151.558	155.491	160.039
102.0	295.986	290.332	255.915	193.350	151.189	153.155	157.703	161.637	166.308
102.5	309.876	304.467	268.944	202.568	158.072	159.547	163.972	168.028	172.576
103.0	324.871	319.340	282.588	212.033	164.833	165.939	170.241	174.297	178.599
103.5	340.359	335.074	296.600	221.866	171.716	172.331	176.510	180.566	184.745
104.0	356.338	351.176	311.105	231.946	178.722	178.599	182.779	186.712	190.768
104.5	373.670	367.893	325.978	242.148	185.729	184.991	188.802	192.981	197.037
105.0	391.493	385.347	341.711	252.473	192.858	191.506	195.070	199.127	203.306
105.5	410.176	403.662	357.813	263.044	199.864	198.020	201.339	205.395	209.206
106.0	429.597	423.083	374.284	274.106	206.993	204.658	207.485	211.541	215.229
106.5	450.002	443.118	391.247	285.415	214.368	211.050	213.631	217.687	221.252
107.0	471.512	463.523	408.824	296.969	221.744	217.564	219.777	223.587	227.275
107.5	493.637	484.542	427.016	308.523	229.242	223.956	226.046	229.733	233.298
108.0	516.623	506.790	445.700	320.569	236.739	230.594	232.192	235.879	239.321
108.5	540.592	529.898	464.752	332.861	244.360	237.108	238.460	242.148	245.344
109.0	565.053	553.744	484.173	345.522	252.227	243.623	244.729	248.171	251.244
109.5	590.742	578.082	504.208	358.428	260.094	250.260	250.875	254.194	257.267
110.0	616.924	602.665	524.736	371.457	268.084	256.898	257.144	260.217	263.413
110.5	643.843	628.355	545.878	384.732	276.073	263.658	263.536	266.486	269.436

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**CANDELA TABULATION - (Cont.)**

111.0	671.868	655.274	567.388	398.499	284.432	270.665	269.927	272.877	275.581
111.5	700.016	682.685	589.267	412.266	292.790	277.548	276.319	279.146	281.482
112.0	729.394	710.710	611.761	426.402	301.394	284.554	282.834	285.292	287.750
112.5	759.263	738.612	634.747	440.783	309.998	291.561	289.594	291.561	293.896
113.0	789.992	767.375	658.224	455.533	318.849	298.813	296.232	297.953	300.165
113.5	821.213	797.244	682.193	470.283	327.944	306.311	302.992	304.713	306.557
114.0	853.049	827.728	706.531	485.525	337.040	313.809	309.753	311.228	312.826
114.5	885.499	858.703	731.360	500.767	346.382	321.184	316.759	317.865	319.340
115.0	918.441	889.432	757.050	516.377	355.724	328.805	323.888	324.257	325.609
115.5	947.695	920.899	783.109	532.234	365.188	336.549	331.017	331.017	332.124
116.0	982.112	948.064	809.536	548.459	374.776	344.538	338.270	337.901	338.761
116.5	1016.406	980.269	836.455	564.684	384.732	352.528	345.645	344.784	345.522
117.0	1051.315	1013.456	863.743	581.032	394.566	360.763	353.020	351.668	352.159
117.5	1087.207	1046.275	891.522	597.749	404.768	368.999	360.641	358.551	358.674
118.0	1122.853	1079.709	918.564	615.080	414.970	377.357	368.139	365.803	365.434
118.5	1160.097	1112.897	943.516	632.903	425.295	385.962	375.759	373.178	372.441
119.0	1196.850	1146.330	971.419	650.480	435.989	394.812	383.749	380.430	379.570
119.5	1232.865	1180.379	1000.304	667.812	446.683	403.662	391.862	387.805	386.699
120.0	1270.969	1214.919	1029.559	685.635	457.254	412.758	399.974	395.303	393.951
120.5	1306.615	1248.844	1058.813	704.073	468.071	421.976	408.087	403.293	401.203
121.0	1343.490	1284.490	1087.945	722.756	479.502	431.441	416.445	411.406	409.070
121.5	1380.366	1318.907	1116.707	741.317	490.933	441.152	424.926	419.641	416.937
122.0	1417.241	1354.553	1146.208	759.631	502.242	450.985	433.777	427.877	425.049
122.5	1454.116	1390.199	1175.216	777.946	513.550	460.941	442.504	436.235	433.039
123.0	1492.221	1427.074	1204.593	796.630	525.227	471.144	451.477	445.085	441.152
123.5	1530.325	1462.721	1234.094	815.436	537.273	481.469	460.573	453.935	449.633
124.0	1569.659	1498.367	1263.594	834.611	549.319	492.040	469.791	462.785	458.483
124.5	1607.764	1535.242	1291.865	853.418	561.242	502.488	479.256	471.758	467.210
125.0	1645.868	1569.659	1321.365	871.486	573.165	513.304	489.090	480.731	475.814
125.5	1685.202	1606.534	1348.407	889.064	585.088	524.244	498.923	490.073	484.542
126.0	1725.765	1642.180	1374.220	906.272	597.257	535.307	508.756	499.538	493.269
126.5	1763.869	1675.368	1400.033	921.760	609.426	546.369	518.713	509.002	502.365
127.0	1799.515	1706.098	1423.387	936.018	621.349	557.555	529.038	518.344	511.829
127.5	1835.161	1733.140	1443.054	948.925	633.149	568.986	539.609	527.809	521.171
128.0	1865.891	1757.723	1459.033	960.848	644.826	580.540	550.057	537.396	530.636
128.5	1892.933	1777.390	1473.783	972.402	656.503	592.217	560.628	547.230	540.223
129.0	1915.058	1793.369	1484.846	983.587	667.935	604.018	571.321	557.186	549.811
129.5	1933.495	1804.432	1493.450	992.069	679.120	615.695	582.261	566.896	559.767
130.0	1947.016	1813.036	1499.596	1000.550	690.060	627.249	593.201	577.099	569.846
130.5	1955.621	1819.182	1503.283	1007.802	700.754	638.926	604.263	587.424	580.172
131.0	1960.537	1822.869	1505.742	1013.702	711.202	650.726	615.203	597.995	590.497
131.5	1962.996	1822.869	1506.971	1018.988	721.281	662.281	626.389	608.566	600.822
132.0	1961.766	1822.869	1506.971	1022.798	730.992	673.466	637.328	619.259	611.270
132.5	1959.308	1819.182	1504.513	1026.609	740.210	684.283	648.268	630.076	622.209
133.0	1955.621	1815.494	1503.283	1029.313	749.429	695.223	659.453	641.016	633.272
133.5	1949.475	1811.807	1500.825	1032.263	758.279	705.916	670.270	652.201	644.458
134.0	1943.329	1805.661	1495.908	1034.230	766.884	715.750	681.210	663.264	655.520
134.5	1935.954	1799.515	1493.450	1036.565	774.873	725.706	691.781	674.081	666.460
135.0	1928.579	1793.369	1488.533	1037.671	782.617	735.171	702.352	685.020	677.277
135.5	1921.204	1785.994	1484.846	1039.146	790.238	744.635	712.431	695.714	688.216
136.0	1912.599	1778.619	1479.929	1040.621	797.736	753.731	722.387	706.531	699.402
136.5	1905.224	1771.244	1475.012	1040.867	804.742	762.581	731.975	716.856	710.218
137.0	1895.391	1761.411	1471.325	1042.342	811.626	771.063	741.317	727.058	720.544
137.5	1885.558	1751.577	1465.179	1043.448	818.140	779.421	750.535	737.015	730.623
138.0	1874.495	1742.973	1460.262	1044.800	824.532	787.657	759.140	746.602	740.456
138.5	1863.432	1733.140	1455.346	1045.784	830.801	795.523	767.498	755.575	750.167

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**CANDELA TABULATION - (Cont.)**

139.0	1852.370	1723.306	1449.200	1046.030	836.947	803.267	775.488	764.425	759.631
139.5	1841.307	1714.702	1444.283	1046.767	842.847	810.765	783.600	772.906	768.727
140.0	1830.245	1704.868	1438.137	1047.259	848.501	818.017	791.221	782.002	777.454
140.5	1819.182	1695.035	1433.220	1047.505	854.155	825.269	798.719	789.992	785.813
141.0	1808.119	1686.431	1427.074	1047.750	859.563	832.399	805.848	797.613	793.925
141.5	1797.057	1677.827	1419.699	1047.996	864.726	839.282	812.732	804.988	802.038
142.0	1785.994	1669.222	1412.324	1048.365	869.766	845.797	819.492	812.117	810.028
142.5	1773.702	1660.618	1404.949	1048.857	874.559	852.065	826.007	819.246	817.771
143.0	1761.411	1652.014	1397.574	1048.611	879.476	858.334	832.522	826.253	825.638
143.5	1750.348	1644.639	1390.199	1048.980	884.270	864.480	838.667	833.013	833.259
144.0	1738.056	1636.035	1384.053	1049.225	888.818	870.503	844.445	839.651	840.880
144.5	1725.765	1627.430	1376.678	1049.963	893.120	876.157	850.099	845.920	848.624
145.0	1712.244	1617.597	1369.303	1050.209	897.668	881.812	855.630	852.188	856.245
145.5	1699.952	1607.764	1361.928	1050.578	901.970	887.220	860.916	858.088	863.620
146.0	1687.660	1597.930	1354.553	1050.086	906.272	892.874	866.078	863.989	870.626
146.5	1674.139	1586.868	1347.178	1050.700	910.451	898.160	871.241	869.397	877.264
147.0	1659.389	1577.034	1339.803	1050.578	914.385	903.322	876.157	874.682	883.410
147.5	1644.639	1565.971	1332.428	1050.086	918.318	908.485	880.951	879.599	889.310
148.0	1629.889	1554.909	1325.053	1049.594	922.252	913.524	885.622	884.270	894.472
148.5	1615.139	1543.846	1318.907	1049.225	926.062	918.564	890.416	888.818	899.266
149.0	1600.388	1532.784	1311.532	1048.611	929.627	923.481	894.964	893.366	903.445
149.5	1585.638	1521.721	1305.386	1047.628	931.839	928.274	899.635	897.545	906.887
150.0	1572.117	1510.659	1298.011	1047.382	932.945	932.822	904.428	901.847	910.328
150.5	1557.367	1498.367	1291.865	1047.382	935.035	933.191	908.853	905.781	913.401
151.0	1542.617	1486.075	1284.490	1046.767	938.600	937.247	913.156	909.837	916.351
151.5	1529.096	1475.012	1278.344	1046.644	941.795	942.410	917.581	914.016	919.179
152.0	1515.575	1462.721	1270.969	1046.153	945.114	946.466	921.760	918.072	922.129
152.5	1502.054	1449.200	1263.594	1045.169	948.187	950.768	924.464	922.252	925.202
153.0	1490.992	1436.908	1257.448	1044.923	951.506	954.702	928.152	925.939	928.520
153.5	1478.700	1425.845	1250.073	1044.186	954.210	959.496	932.085	927.660	931.839
154.0	1466.408	1413.554	1242.698	1043.694	957.529	963.429	936.141	931.716	935.281
154.5	1455.346	1402.491	1236.552	1043.448	960.356	967.239	937.862	935.772	934.175
155.0	1444.283	1391.428	1229.177	1042.834	963.183	970.927	942.041	939.460	937.862
155.5	1435.679	1379.137	1223.523	1042.957	966.256	974.614	946.098	940.935	941.427
156.0	1425.845	1369.303	1217.131	1042.957	968.960	978.548	949.662	944.745	944.868
156.5	1416.012	1358.241	1210.739	1042.465	971.664	981.990	953.841	948.064	948.925
157.0	1406.178	1347.178	1204.225	1041.850	973.754	985.431	958.143	951.752	952.735
157.5	1395.116	1337.345	1197.956	1041.236	976.827	988.504	961.954	955.439	955.808
158.0	1385.282	1326.282	1192.056	1040.744	979.285	991.700	965.887	959.496	959.250
158.5	1374.220	1315.219	1186.033	1040.621	981.744	994.773	970.189	963.060	963.183
159.0	1361.928	1304.157	1179.887	1039.761	984.694	997.723	974.246	966.625	966.010
159.5	1349.636	1293.094	1173.618	1040.130	987.152	1000.427	978.179	970.435	970.312
160.0	1337.345	1283.261	1168.087	1040.130	989.365	1003.008	982.235	974.123	973.631
160.5	1325.053	1272.198	1162.556	1039.392	992.069	1005.590	986.537	978.056	978.671
161.0	1311.532	1262.365	1156.901	1040.007	994.527	1008.048	990.102	981.375	982.235
161.5	1299.240	1251.302	1151.370	1040.007	996.740	1010.261	993.667	985.062	985.800
162.0	1286.948	1240.240	1145.593	1040.130	999.321	1012.719	998.338	988.627	989.856
162.5	1274.657	1229.177	1139.816	1040.252	1001.656	1015.300	1001.411	992.069	993.052
163.0	1261.136	1218.852	1134.407	1040.621	1003.623	1017.267	1004.606	995.265	997.354
163.5	1247.615	1209.018	1128.630	1041.359	1006.081	1018.742	1008.417	998.829	1000.427
164.0	1235.323	1198.325	1123.345	1041.236	1008.171	1020.586	1011.859	1002.271	1003.992
164.5	1223.277	1188.614	1117.936	1041.359	1010.383	1022.552	1015.054	1005.590	1007.311
165.0	1211.969	1178.904	1112.651	1041.850	1012.473	1024.150	1017.513	1008.786	1010.752
165.5	1200.046	1169.808	1106.505	1041.728	1014.931	1026.117	1020.709	1012.596	1014.563
166.0	1189.966	1161.449	1100.974	1041.973	1016.775	1027.346	1023.044	1016.284	1017.144
166.5	1179.272	1152.968	1095.934	1041.973	1018.250	1029.067	1025.379	1018.988	1020.340

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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	1169.193	1144.733	1091.018	1041.728	1020.094	1030.542	1027.592	1022.552	1023.536
<b>167.5</b>	1159.851	1136.005	1085.732	1041.728	1021.692	1031.157	1029.436	1025.871	1026.977
<b>168.0</b>	1151.001	1128.262	1080.938	1041.113	1024.027	1032.386	1031.034	1029.190	1029.436
<b>168.5</b>	1141.291	1119.657	1076.882	1041.113	1024.888	1033.615	1032.632	1031.648	1033.123
<b>169.0</b>	1132.072	1112.405	1072.457	1040.990	1026.854	1034.230	1034.107	1034.230	1035.950
<b>169.5</b>	1124.205	1104.661	1068.278	1040.990	1028.084	1034.967	1035.213	1037.302	1037.794
<b>170.0</b>	1115.232	1098.024	1064.590	1040.744	1029.927	1035.705	1035.950	1038.777	1040.990
<b>170.5</b>	1106.874	1091.263	1061.517	1041.113	1031.157	1035.950	1036.688	1040.621	1042.957
<b>171.0</b>	1100.974	1085.486	1057.707	1041.605	1032.140	1036.442	1036.811	1042.219	1044.186
<b>171.5</b>	1093.599	1079.340	1055.003	1041.113	1033.369	1037.057	1036.688	1043.448	1046.398
<b>172.0</b>	1086.838	1074.547	1052.421	1041.482	1034.107	1037.057	1036.688	1043.694	1047.013
<b>172.5</b>	1080.815	1069.384	1050.086	1041.359	1035.090	1037.671	1037.302	1044.432	1047.382
<b>173.0</b>	1075.038	1065.574	1047.873	1041.482	1036.196	1038.286	1036.811	1045.046	1047.750
<b>173.5</b>	1069.876	1060.903	1045.661	1041.728	1037.180	1037.794	1036.442	1044.186	1047.628
<b>174.0</b>	1066.065	1056.846	1043.694	1041.605	1037.548	1038.409	1035.705	1043.940	1046.398
<b>174.5</b>	1060.534	1053.036	1041.973	1041.728	1038.163	1038.532	1034.967	1043.080	1045.292
<b>175.0</b>	1055.494	1049.963	1040.621	1041.850	1038.286	1038.286	1034.475	1041.728	1043.817
<b>175.5</b>	1051.315	1046.767	1039.023	1041.482	1038.900	1038.286	1034.107	1040.990	1042.588
<b>176.0</b>	1048.365	1044.309	1037.425	1040.744	1039.146	1037.917	1033.492	1039.515	1040.007
<b>176.5</b>	1044.800	1041.973	1036.073	1040.744	1039.269	1038.040	1033.123	1038.163	1038.655
<b>177.0</b>	1042.342	1039.515	1034.721	1040.498	1039.638	1038.163	1032.263	1037.180	1036.934
<b>177.5</b>	1039.638	1037.302	1033.492	1040.007	1040.130	1037.917	1032.140	1035.950	1035.336
<b>178.0</b>	1038.409	1036.073	1032.877	1039.638	1039.761	1038.286	1031.771	1034.475	1034.475
<b>178.5</b>	1036.319	1034.844	1032.263	1039.269	1039.884	1038.532	1030.665	1033.492	1032.632
<b>179.0</b>	1034.967	1033.246	1031.402	1039.146	1040.007	1038.163	1030.788	1032.877	1032.755
<b>179.5</b>	1033.492	1033.246	1031.280	1038.777	1040.007	1038.532	1030.173	1032.755	1033.738
<b>180.0</b>	1034.598	1034.598	1034.598	1034.598	1034.598	1034.598	1034.598	1034.598	1034.598

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AIWP33-8-L6-835-S-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	82.34	N.A.	1.70
0-30	175.32	N.A.	3.60
0-40	287.97	N.A.	6.00
0-60	518.95	N.A.	10.80
0-80	692.34	N.A.	14.40
0-90	744.98	N.A.	15.50
10-90	723.71	N.A.	15.00
20-40	205.63	N.A.	4.30
20-50	323.84	N.A.	6.70
40-70	328.45	N.A.	6.80
60-80	173.40	N.A.	3.60
70-80	75.93	N.A.	1.60
80-90	52.64	N.A.	1.10
90-110	374.81	N.A.	7.80
90-120	887.07	N.A.	18.40
90-130	1651.15	N.A.	34.30
90-150	3161.97	N.A.	65.70
90-180	4065.91	N.A.	84.50
110-180	3691.1	N.A.	76.70
0-180	4810.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	21.27
10-20	61.06
20-30	92.99
30-40	112.64
40-50	118.21
50-60	112.77
60-70	97.47
70-80	75.93
80-90	52.64
90-100	99.56
100-110	275.26
110-120	512.25
120-130	764.09
130-140	820.73
140-150	690.09
150-160	502.30
160-170	301.84
170-180	99.81

**IES INDOOR REPORT**  
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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	198	198	198	198	174	174	174	174	128	128	128	87	87	87	49	49	49	31
1	179	171	163	156	157	150	143	138	111	107	103	75	72	70	42	40	39	24
2	163	148	137	127	142	130	120	112	96	90	84	65	61	58	36	34	32	20
3	148	130	116	105	129	114	102	93	85	77	70	57	52	48	32	29	27	16
4	135	114	99	88	118	101	88	78	75	66	59	51	45	41	28	25	23	14
5	124	101	86	75	108	89	76	66	66	57	51	45	39	35	25	22	20	12
6	113	90	75	64	99	80	67	57	59	50	44	40	35	30	23	20	17	10
7	104	81	66	55	91	72	59	50	53	44	38	36	31	26	21	17	15	9
8	97	73	58	48	84	65	52	43	48	40	33	33	27	23	19	16	13	8
9	90	66	52	43	78	59	46	38	44	35	29	30	25	21	17	14	12	7
10	83	60	47	38	73	54	42	34	40	32	26	28	22	18	16	13	11	6

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AIWP33-8-L6-835-S-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

Reflectances

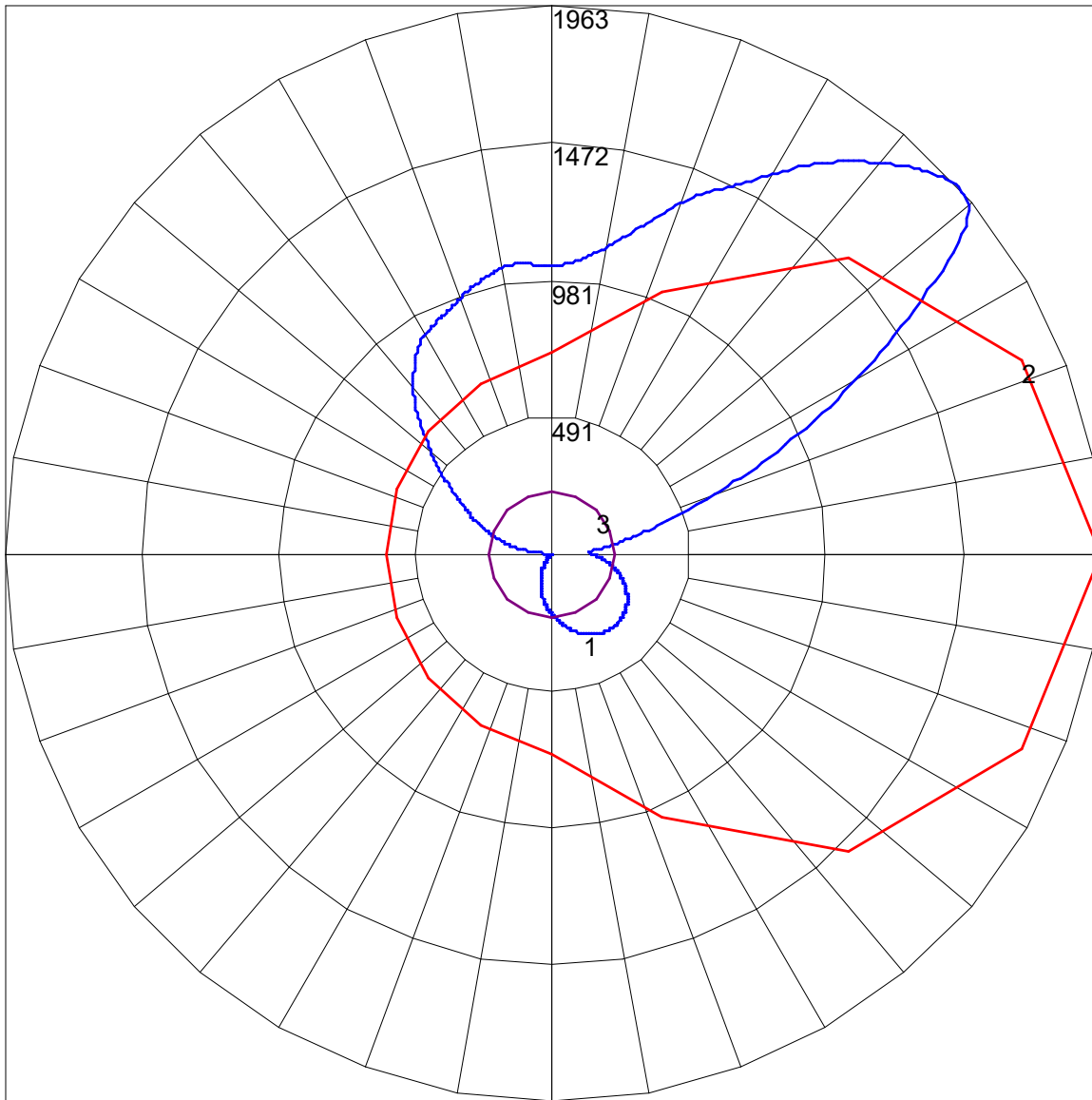
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size      UGR Viewed Crosswise

X=2H	Y=2H	9.9	10.5	11.1	11.7	13.4	UGR Viewed Endwise			
		3.1	3.1	3.3	3.9	5.6				
	3H	12.8	13.4	14.0	14.6	16.3	3.3	3.9	4.5	5.1
	4H	14.3	14.8	15.5	16.0	17.7	3.7	4.2	4.9	5.4
	6H	15.8	16.3	17.0	17.5	19.2	4.0	4.5	5.2	5.6
	8H	16.6	17.0	17.8	18.2	19.9	4.1	4.5	5.3	5.7
	12H	17.4	17.9	18.7	19.1	20.8	4.2	4.6	5.4	5.8
4H	2H	10.2	10.7	11.4	11.9	13.6	4.2	4.7	5.4	5.9
	3H	13.5	13.9	14.7	15.1	16.8	5.7	6.2	7.0	7.4
	4H	15.1	15.5	16.4	16.8	18.5	6.2	6.6	7.4	7.8
	6H	16.9	17.3	18.1	18.5	20.2	6.6	6.9	7.8	8.2
	8H	17.8	18.2	19.0	19.4	21.1	6.7	7.1	7.9	8.3
	12H	18.8	19.1	20.1	20.4	22.1	6.8	7.1	8.1	8.4
8H	4H	15.3	15.7	16.5	16.9	18.6	7.9	8.3	9.1	9.5
	6H	17.4	17.6	18.6	18.9	20.6	8.6	8.9	9.9	10.2
	8H	18.5	18.7	19.8	20.0	21.7	8.9	9.1	10.2	10.4
	12H	19.8	20.0	21.0	21.2	23.0	9.1	9.3	10.4	10.5
12H	4H	15.3	15.6	16.5	16.8	18.6	8.5	8.8	9.7	10.0
	6H	17.4	17.6	18.6	18.9	20.6	9.4	9.7	10.7	10.9
	8H	18.6	18.8	19.9	20.1	21.8	9.9	10.1	11.1	11.3

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1962.996 Located At Horizontal Angle = 0, Vertical Angle = 131.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (131.5) (Through Max. Cd.)  
# 3 - Horizontal Cone Through Vertical Angle (0)