

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CLD 1 LIGHT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18097-3

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Clouds Resin (CLD) 1-Light Wall Sconce

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: CLD 1-Light

[MORE] Steel formed housing and frosted resin lens with white interior.

[MORE] 10 LEDs mounted in circular array with white plastic dome lens.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.820a.

[DATE] This file created: Wednesday, April 18, 2018 12:43:45 PM

[ISSUEDATE] Wednesday, April 18, 2018 12:43:45 PM

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	7.48
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.56
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.17 m
Luminous Height	0.14 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2773	2649	4566
55	2339	2047	2965
65	2092	1739	2215
75	1942	1540	1930
85	1869	1426	1732

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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>
<b>0.0</b>	81.207	81.207	81.207	81.207	81.207	81.207	81.207	81.207	81.207
<b>0.5</b>	80.421	80.655	80.964	81.001	81.264	81.591	81.844	81.863	81.872
<b>1.0</b>	80.627	80.898	81.030	81.086	81.366	81.891	82.293	82.452	82.574
<b>1.5</b>	81.273	81.432	81.432	81.292	81.638	82.321	82.911	83.285	83.435
<b>2.0</b>	81.994	82.059	82.012	81.610	81.956	82.789	83.632	84.212	84.399
<b>2.5</b>	82.873	82.930	82.686	82.087	82.359	83.351	84.446	85.232	85.447
<b>3.0</b>	83.922	83.744	83.435	82.649	82.770	83.931	85.363	86.243	86.533
<b>3.5</b>	84.979	84.727	84.268	83.220	83.248	84.530	86.215	87.301	87.759
<b>4.0</b>	86.075	85.812	85.045	83.856	83.725	85.232	87.160	88.377	88.826
<b>4.5</b>	87.179	86.795	85.944	84.455	84.240	85.934	88.078	89.500	90.024
<b>5.0</b>	88.218	87.918	86.814	85.101	84.727	86.627	88.939	90.530	91.157
<b>5.5</b>	89.266	88.901	87.684	85.822	85.260	87.319	89.884	91.672	92.280
<b>6.0</b>	90.474	89.987	88.574	86.514	85.794	88.068	90.876	92.804	93.591
<b>6.5</b>	91.560	91.035	89.528	87.188	86.290	88.780	91.803	93.900	94.630
<b>7.0</b>	92.645	92.046	90.427	87.909	86.861	89.500	92.795	95.041	95.828
<b>7.5</b>	93.722	93.179	91.344	88.620	87.422	90.249	93.787	96.155	96.988
<b>8.0</b>	94.742	94.218	92.290	89.304	87.984	90.989	94.723	97.241	98.102
<b>8.5</b>	95.790	95.294	93.198	90.024	88.499	91.737	95.706	98.327	99.216
<b>9.0</b>	96.970	96.296	94.124	90.745	89.098	92.477	96.717	99.375	100.330
<b>9.5</b>	98.074	97.335	95.070	91.447	89.706	93.235	97.587	100.395	101.444
<b>10.0</b>	99.132	98.420	95.968	92.177	90.230	93.937	98.523	101.528	102.539
<b>10.5</b>	100.180	99.562	96.913	92.935	90.792	94.695	99.497	102.567	103.643
<b>11.0</b>	101.378	100.545	97.821	93.656	91.354	95.444	100.395	103.606	104.738
<b>11.5</b>	102.501	101.593	98.711	94.442	91.925	96.193	101.341	104.607	105.759
<b>12.0</b>	103.540	102.670	99.656	95.163	92.496	96.942	102.258	105.684	106.816
<b>12.5</b>	104.392	103.634	100.639	95.865	93.048	97.718	103.157	106.620	107.855
<b>13.0</b>	104.991	104.579	101.509	96.595	93.581	98.439	104.064	107.649	108.782
<b>13.5</b>	105.366	105.328	102.473	97.307	94.162	99.197	104.944	108.595	109.559
<b>14.0</b>	105.487	105.805	103.334	97.962	94.723	99.899	105.805	109.456	110.074
<b>14.5</b>	105.777	106.199	104.242	98.701	95.219	100.620	106.657	110.158	110.354
<b>15.0</b>	105.993	106.451	105.094	99.413	95.837	101.331	107.556	110.663	110.476
<b>15.5</b>	106.208	106.648	105.908	100.133	96.399	102.005	108.370	110.860	110.439
<b>16.0</b>	106.283	106.901	106.601	100.845	96.876	102.726	109.184	110.982	110.382
<b>16.5</b>	106.376	106.929	107.228	101.509	97.391	103.419	110.017	110.963	110.251
<b>17.0</b>	106.386	106.994	107.771	102.183	97.999	104.064	110.757	110.869	110.055
<b>17.5</b>	106.507	107.135	108.202	102.885	98.486	104.710	111.393	110.766	109.980
<b>18.0</b>	106.442	107.116	108.473	103.531	99.001	105.403	111.964	110.588	109.727
<b>18.5</b>	106.507	107.106	108.707	104.186	99.544	106.030	112.320	110.420	109.475
<b>19.0</b>	106.489	107.153	108.810	104.841	100.068	106.695	112.517	110.233	109.231
<b>19.5</b>	106.348	107.013	108.885	105.506	100.592	107.303	112.591	110.027	108.950
<b>20.0</b>	106.170	106.975	108.913	106.096	101.088	107.968	112.554	109.746	108.726
<b>20.5</b>	106.021	106.891	108.904	106.751	101.640	108.567	112.451	109.503	108.398
<b>21.0</b>	105.674	106.657	108.866	107.340	102.146	109.194	112.301	109.222	108.089
<b>21.5</b>	105.487	106.423	108.791	107.958	102.670	109.812	112.105	108.876	107.780
<b>22.0</b>	105.300	106.245	108.670	108.520	103.194	110.373	111.899	108.557	107.378
<b>22.5</b>	104.991	105.936	108.548	109.053	103.728	110.972	111.693	108.164	106.901
<b>23.0</b>	104.692	105.571	108.417	109.521	104.224	111.496	111.403	107.752	106.507
<b>23.5</b>	104.261	105.141	108.155	109.849	104.664	112.049	111.075	107.359	105.974
<b>24.0</b>	103.849	104.692	107.921	110.130	105.188	112.563	110.757	106.826	105.431
<b>24.5</b>	103.494	104.327	107.649	110.373	105.646	113.069	110.401	106.236	104.944
<b>25.0</b>	103.063	103.830	107.275	110.570	106.114	113.509	109.999	105.740	104.392
<b>25.5</b>	102.586	103.362	106.919	110.719	106.582	113.846	109.615	105.141	103.765
<b>26.0</b>	102.061	102.829	106.479	110.757	106.985	114.145	109.110	104.495	103.166
<b>26.5</b>	101.565	102.277	106.021	110.869	107.415	114.332	108.651	103.877	102.455

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27.0	100.882	101.668	105.506	110.832	107.808	114.417	108.136	103.157	101.781
27.5	100.414	101.154	104.972	110.757	108.192	114.435	107.528	102.492	101.088
28.0	99.721	100.526	104.345	110.579	108.548	114.360	106.919	101.753	100.339
28.5	99.057	99.796	103.709	110.382	108.950	114.136	106.255	100.994	99.534
29.0	98.420	99.104	103.082	110.027	109.344	113.846	105.534	100.180	98.729
29.5	97.718	98.448	102.370	109.662	109.699	113.453	104.804	99.366	97.906
30.0	97.016	97.728	101.612	109.212	109.989	112.956	104.018	98.533	96.998
30.5	96.137	96.979	100.835	108.660	110.364	112.423	103.138	97.634	96.052
31.0	95.444	96.286	100.021	108.174	110.654	111.824	102.286	96.717	95.163
31.5	94.695	95.491	99.235	107.593	110.982	111.169	101.388	95.818	94.162
32.0	93.806	94.658	98.448	106.919	111.300	110.411	100.470	94.873	93.226
32.5	93.001	93.871	97.522	106.264	111.487	109.578	99.506	93.862	92.121
33.0	92.130	92.992	96.661	105.487	111.721	108.670	98.570	92.832	91.101
33.5	91.129	92.187	95.790	104.664	111.899	107.780	97.597	91.775	89.884
34.0	90.315	91.260	94.826	103.887	111.843	106.713	96.548	90.755	88.854
34.5	89.444	90.361	93.928	102.923	111.702	105.693	95.528	89.669	87.722
35.0	88.415	89.416	92.954	101.958	111.234	104.626	94.414	88.564	86.514
35.5	87.497	88.546	92.018	100.966	110.598	103.522	93.366	87.450	85.326
36.0	86.524	87.525	91.007	99.927	109.774	102.352	92.271	86.243	84.193
36.5	85.494	86.571	90.062	98.804	108.801	101.238	91.157	85.139	82.948
37.0	84.586	85.616	89.051	97.653	107.574	99.984	90.015	83.978	81.760
37.5	83.613	84.614	87.984	96.483	106.039	98.757	88.854	82.742	80.496
38.0	82.583	83.585	87.011	95.313	104.345	97.522	87.713	81.526	79.251
38.5	81.591	82.565	85.944	94.059	102.586	96.221	86.468	80.243	78.044
39.0	80.590	81.591	84.923	92.814	100.770	94.976	85.288	79.026	76.818
39.5	79.635	80.543	83.866	91.522	98.954	93.666	84.062	77.744	75.526
40.0	78.811	79.541	82.780	90.240	97.129	92.374	82.855	76.490	74.318
40.5	77.856	78.521	81.694	88.976	95.397	91.045	81.572	75.226	73.064
41.0	76.892	77.538	80.636	87.647	93.666	89.744	80.328	73.963	71.857
41.5	76.172	76.574	79.504	86.412	91.990	88.415	79.036	72.680	70.696
42.0	75.385	75.610	78.399	85.110	90.436	87.085	77.763	71.426	69.526
42.5	74.730	74.655	77.267	83.800	88.836	85.728	76.434	70.191	68.403
43.0	74.169	73.766	76.162	82.508	87.329	84.399	75.105	68.983	67.233
43.5	73.682	72.999	75.020	81.151	85.915	83.004	73.804	67.823	66.259
44.0	73.279	72.222	73.916	79.822	84.502	81.600	72.418	66.596	65.314
44.5	72.680	71.623	72.802	78.568	83.136	80.225	71.080	65.520	64.425
45.0	72.184	71.042	71.660	77.154	81.769	78.764	69.723	64.481	63.704
45.5	71.716	70.490	70.612	75.853	80.496	77.379	68.440	63.536	62.993
46.0	71.202	70.032	69.517	74.524	79.148	75.900	67.111	62.656	62.319
46.5	70.659	69.507	68.450	73.195	77.885	74.421	65.791	61.888	61.608
47.0	70.106	68.955	67.458	71.791	76.527	72.952	64.425	61.177	60.887
47.5	69.620	68.468	66.428	70.443	75.151	71.436	63.180	60.466	60.166
48.0	69.124	67.972	65.548	69.096	73.776	69.929	61.935	59.792	59.417
48.5	68.581	67.401	64.687	67.673	72.353	68.375	60.690	59.080	58.790
49.0	68.141	66.896	63.948	66.344	70.902	66.896	59.548	58.397	58.116
49.5	67.635	66.372	63.189	64.940	69.414	65.352	58.444	57.695	57.414
50.0	67.139	65.876	62.525	63.582	67.897	63.882	57.470	57.049	56.787
50.5	66.643	65.342	61.842	62.281	66.306	62.356	56.553	56.347	56.132
51.0	66.194	64.865	61.261	61.008	64.715	60.821	55.720	55.711	55.439
51.5	65.782	64.322	60.737	59.586	63.114	59.333	54.981	55.027	54.850
52.0	65.239	63.882	60.269	58.341	61.420	57.854	54.279	54.438	54.241
52.5	64.865	63.395	59.745	57.087	59.689	56.394	53.680	53.792	53.623
53.0	64.397	62.890	59.249	55.795	58.051	54.953	53.006	53.127	53.015
53.5	64.004	62.431	58.734	54.681	56.357	53.586	52.379	52.641	52.397
54.0	63.601	62.019	58.257	53.530	54.700	52.229	51.780	51.967	51.845
54.5	63.068	61.533	57.751	52.482	53.127	50.984	51.171	51.396	51.340

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**CANDELA TABULATION - (Cont.)**

55.0	62.646	61.158	57.264	51.536	51.527	49.720	50.572	50.797	50.741
55.5	62.366	60.737	56.768	50.750	50.020	48.541	49.973	50.254	50.244
56.0	61.982	60.306	56.310	49.945	48.504	47.549	49.374	49.702	49.683
56.5	61.598	59.876	55.795	49.299	47.090	46.603	48.794	49.168	49.140
57.0	61.271	59.530	55.336	48.606	45.770	45.883	48.251	48.616	48.635
57.5	60.877	59.062	54.878	47.951	44.460	45.312	47.689	48.082	48.129
58.0	60.569	58.687	54.391	47.474	43.243	44.844	47.090	47.577	47.614
58.5	60.138	58.341	53.979	47.109	42.176	44.348	46.557	47.053	47.071
59.0	59.848	57.948	53.549	46.669	41.268	43.889	46.032	46.519	46.594
59.5	59.483	57.573	53.099	46.285	40.519	43.440	45.471	46.061	46.164
60.0	59.090	57.227	52.687	45.883	39.958	42.972	44.984	45.555	45.621
60.5	58.743	56.871	52.285	45.471	39.490	42.476	44.460	45.031	45.199
61.0	58.434	56.506	51.864	45.040	39.106	41.989	43.926	44.572	44.657
61.5	58.182	56.188	51.386	44.657	38.760	41.530	43.458	44.086	44.254
62.0	57.807	55.814	51.031	44.179	38.432	41.081	42.944	43.618	43.739
62.5	57.461	55.458	50.628	43.795	38.048	40.594	42.485	43.159	43.253
63.0	57.162	55.112	50.207	43.374	37.683	40.126	42.017	42.635	42.850
63.5	56.768	54.765	49.833	42.962	37.309	39.658	41.540	42.232	42.354
64.0	56.460	54.466	49.486	42.569	36.925	39.237	41.044	41.783	41.933
64.5	56.235	54.129	49.074	42.129	36.532	38.760	40.613	41.352	41.474
65.0	55.917	53.792	48.766	41.736	36.158	38.329	40.154	40.884	41.044
65.5	55.561	53.464	48.344	41.362	35.765	37.833	39.649	40.501	40.604
66.0	55.252	53.174	48.007	40.950	35.381	37.412	39.228	40.051	40.182
66.5	54.981	52.818	47.633	40.519	35.006	36.981	38.760	39.612	39.789
67.0	54.690	52.547	47.268	40.201	34.557	36.513	38.282	39.172	39.349
67.5	54.344	52.219	46.894	39.808	34.211	36.055	37.899	38.760	38.919
68.0	54.045	51.882	46.566	39.359	33.846	35.690	37.477	38.329	38.535
68.5	53.783	51.574	46.229	39.012	33.434	35.203	37.038	37.955	38.170
69.0	53.511	51.302	45.864	38.629	33.031	34.829	36.654	37.534	37.683
69.5	53.212	50.984	45.536	38.217	32.657	34.426	36.223	37.131	37.309
70.0	52.950	50.712	45.171	37.880	32.255	33.967	35.839	36.738	36.953
70.5	52.603	50.394	44.806	37.515	31.861	33.565	35.428	36.364	36.467
71.0	52.304	50.095	44.544	37.094	31.478	33.162	35.016	35.933	36.139
71.5	52.070	49.861	44.217	36.766	31.103	32.760	34.613	35.568	35.755
72.0	51.798	49.552	43.870	36.382	30.738	32.329	34.239	35.166	35.381
72.5	51.546	49.262	43.580	35.989	30.354	31.955	33.846	34.810	34.988
73.0	51.237	48.981	43.262	35.680	29.980	31.553	33.481	34.407	34.623
73.5	50.946	48.719	42.934	35.297	29.606	31.150	33.078	34.061	34.239
74.0	50.750	48.410	42.635	34.922	29.250	30.766	32.723	33.687	33.893
74.5	50.535	48.120	42.298	34.613	28.848	30.373	32.348	33.322	33.509
75.0	50.226	47.886	42.008	34.286	28.520	30.027	32.002	32.985	33.125
75.5	49.917	47.596	41.746	33.911	28.164	29.671	31.627	32.582	32.779
76.0	49.664	47.334	41.455	33.593	27.780	29.269	31.253	32.236	32.404
76.5	49.365	47.071	41.128	33.275	27.415	28.941	30.897	31.880	32.077
77.0	49.065	46.791	40.894	32.938	27.097	28.585	30.523	31.553	31.740
77.5	48.915	46.566	40.585	32.592	26.723	28.192	30.186	31.178	31.431
78.0	48.635	46.285	40.257	32.292	26.414	27.874	29.849	30.832	31.056
78.5	48.316	46.004	40.023	31.918	26.049	27.528	29.512	30.495	30.729
79.0	48.148	45.742	39.743	31.646	25.712	27.153	29.156	30.167	30.326
79.5	47.820	45.490	39.424	31.365	25.375	26.807	28.819	29.812	30.018
80.0	47.670	45.228	39.190	31.000	25.057	26.470	28.482	29.484	29.690
80.5	47.399	45.003	38.891	30.720	24.757	26.142	28.127	29.184	29.400
81.0	47.128	44.760	38.619	30.420	24.430	25.806	27.846	28.838	29.016
81.5	46.950	44.469	38.376	30.120	24.158	25.525	27.528	28.529	28.707
82.0	46.641	44.226	38.086	29.858	23.849	25.188	27.172	28.248	28.417
82.5	46.435	44.029	37.796	29.587	23.531	24.841	26.873	27.930	28.108

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**CANDELA TABULATION - (Cont.)**

83.0	46.126	43.739	37.571	29.278	23.222	24.561	26.573	27.612	27.780
83.5	45.901	43.533	37.318	28.997	22.941	24.270	26.255	27.284	27.453
84.0	45.705	43.309	37.038	28.763	22.651	23.952	25.974	27.013	27.144
84.5	45.462	43.037	36.832	28.464	22.380	23.653	25.656	26.676	26.826
85.0	45.265	42.794	36.588	28.220	22.127	23.353	25.384	26.405	26.601
85.5	45.050	42.569	36.317	27.968	21.828	23.035	25.122	26.105	26.274
86.0	44.825	42.335	36.083	27.696	21.584	22.782	24.785	25.749	26.040
86.5	44.591	42.148	35.896	27.462	21.313	22.492	24.504	25.487	25.656
87.0	44.338	41.914	35.624	27.284	21.069	22.221	24.252	25.244	25.394
87.5	44.132	41.671	35.428	27.004	20.882	21.968	23.971	24.935	25.150
88.0	43.936	41.530	35.231	26.826	20.601	21.715	23.728	24.682	24.841
88.5	43.721	41.315	35.016	26.629	20.433	21.462	23.466	24.430	24.570
89.0	43.683	41.193	34.857	26.414	20.236	21.285	23.213	24.139	24.261
89.5	43.702	41.184	34.857	26.395	20.096	21.097	22.979	23.905	24.027
90.0	43.618	41.240	34.922	26.433	20.171	21.051	22.885	23.765	23.868
90.5	43.758	41.296	34.932	26.461	20.171	21.069	22.829	23.690	23.821
91.0	43.880	41.334	34.988	26.517	20.152	21.069	22.782	23.653	23.774
91.5	43.917	41.446	35.034	26.573	20.218	21.079	22.773	23.634	23.690
92.0	43.992	41.437	35.128	26.554	20.227	21.079	22.726	23.559	23.662
92.5	44.048	41.512	35.166	26.629	20.283	21.051	22.689	23.484	23.597
93.0	44.123	41.577	35.166	26.695	20.264	20.994	22.689	23.456	23.559
93.5	44.235	41.624	35.297	26.723	20.358	21.004	22.689	23.419	23.494
94.0	44.282	41.718	35.334	26.798	20.339	20.985	22.604	23.381	23.419
94.5	44.348	41.746	35.390	26.816	20.386	20.938	22.632	23.316	23.306
95.0	44.488	41.811	35.428	26.863	20.386	20.938	22.567	23.185	23.241
95.5	44.469	41.914	35.474	26.919	20.414	20.929	22.520	23.147	23.213
96.0	44.582	41.961	35.540	26.957	20.433	20.910	22.473	23.100	23.091
96.5	44.638	42.008	35.652	26.985	20.489	20.882	22.417	22.998	23.035
97.0	44.703	42.073	35.634	27.050	20.480	20.863	22.389	22.932	22.913
97.5	44.750	42.129	35.690	27.125	20.489	20.817	22.361	22.913	22.866
98.0	44.853	42.139	35.755	27.116	20.564	20.835	22.277	22.820	22.792
98.5	44.862	42.223	35.802	27.200	20.573	20.779	22.249	22.754	22.698
99.0	44.919	42.279	35.802	27.275	20.601	20.723	22.230	22.679	22.623
99.5	44.984	42.298	35.868	27.247	20.620	20.723	22.127	22.604	22.492
100.0	45.003	42.345	35.896	27.303	20.667	20.686	22.108	22.539	22.436
100.5	45.078	42.354	35.905	27.350	20.676	20.658	22.080	22.445	22.342
101.0	45.068	42.382	35.942	27.406	20.723	20.620	22.024	22.342	22.249
101.5	45.171	42.401	35.980	27.425	20.742	20.555	21.959	22.286	22.118
102.0	45.134	42.429	35.970	27.472	20.817	20.536	21.893	22.183	22.080
102.5	45.162	42.429	35.980	27.481	20.817	20.508	21.809	22.090	21.987
103.0	45.171	42.457	35.999	27.518	20.873	20.433	21.734	22.015	21.902
103.5	45.171	42.466	35.980	27.575	20.854	20.405	21.678	21.959	21.734
104.0	45.246	42.476	35.942	27.518	20.873	20.358	21.594	21.865	21.696
104.5	45.265	42.513	35.952	27.575	20.892	20.302	21.481	21.753	21.547
105.0	45.181	42.522	35.933	27.603	20.948	20.246	21.378	21.687	21.444
105.5	45.228	42.466	35.924	27.546	20.966	20.199	21.275	21.565	21.322
106.0	45.265	42.476	35.952	27.565	20.938	20.161	21.172	21.434	21.247
106.5	45.246	42.494	35.933	27.565	20.966	20.115	21.079	21.341	21.126
107.0	45.274	42.494	35.905	27.556	20.938	20.077	20.966	21.200	21.032
107.5	45.246	42.466	35.896	27.546	20.938	20.021	20.873	21.088	20.873
108.0	45.246	42.457	35.877	27.593	20.966	19.909	20.770	20.901	20.714
108.5	45.265	42.448	35.896	27.546	20.929	19.890	20.676	20.789	20.545
109.0	45.181	42.438	35.849	27.546	20.948	19.787	20.573	20.629	20.442
109.5	45.209	42.373	35.802	27.509	20.901	19.759	20.470	20.508	20.208
110.0	45.162	42.382	35.774	27.509	20.929	19.712	20.367	20.321	20.133
110.5	45.171	42.307	35.774	27.500	20.892	19.656	20.236	20.227	19.899

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**CANDELA TABULATION - (Cont.)**

111.0	45.115	42.317	35.736	27.528	20.901	19.600	20.152	20.068	19.731
111.5	45.087	42.288	35.736	27.490	20.854	19.553	20.002	19.937	19.647
112.0	44.975	42.270	35.699	27.481	20.845	19.459	19.909	19.768	19.441
112.5	45.003	42.232	35.624	27.453	20.863	19.431	19.824	19.637	19.254
113.0	44.984	42.176	35.624	27.425	20.854	19.347	19.722	19.497	19.085
113.5	44.928	42.129	35.577	27.387	20.826	19.310	19.572	19.300	18.954
114.0	44.853	42.101	35.512	27.387	20.817	19.263	19.478	19.197	18.804
114.5	44.872	42.045	35.484	27.341	20.807	19.169	19.385	18.982	18.617
115.0	44.760	41.980	35.400	27.303	20.760	19.113	19.188	18.776	18.402
115.5	44.722	41.989	35.362	27.275	20.770	19.038	19.141	18.589	18.233
116.0	44.628	41.858	35.287	27.210	20.695	19.029	18.982	18.336	18.037
116.5	44.638	41.820	35.240	27.200	20.723	18.917	18.823	18.140	17.840
117.0	44.516	41.755	35.166	27.153	20.676	18.879	18.757	17.962	17.503
117.5	44.413	41.661	35.137	27.107	20.629	18.814	18.654	17.709	17.325
118.0	44.357	41.596	35.025	27.032	20.592	18.729	18.505	17.522	17.026
118.5	44.273	41.558	34.969	26.994	20.536	18.664	18.374	17.316	16.811
119.0	44.160	41.437	34.903	26.976	20.508	18.608	18.299	17.101	16.548
119.5	44.067	41.381	34.838	26.929	20.508	18.552	18.130	16.857	16.268
120.0	43.983	41.324	34.782	26.854	20.442	18.486	18.055	16.605	16.015
120.5	43.917	41.175	34.707	26.760	20.395	18.392	17.915	16.380	15.772
121.0	43.824	41.109	34.595	26.760	20.321	18.327	17.765	16.174	15.519
121.5	43.655	41.044	34.501	26.713	20.321	18.233	17.700	15.968	15.257
122.0	43.580	40.903	34.435	26.601	20.292	18.158	17.569	15.734	14.985
122.5	43.449	40.810	34.370	26.536	20.218	18.130	17.447	15.538	14.761
123.0	43.346	40.725	34.248	26.508	20.171	18.018	17.344	15.322	14.508
123.5	43.206	40.548	34.145	26.386	20.133	17.962	17.241	15.135	14.199
124.0	43.187	40.416	34.080	26.348	20.115	17.906	17.073	14.910	13.993
124.5	42.953	40.323	33.977	26.283	20.040	17.812	16.988	14.723	13.769
125.0	42.794	40.173	33.883	26.208	19.974	17.793	16.904	14.517	13.535
125.5	42.635	40.051	33.743	26.105	19.927	17.709	16.801	14.340	13.357
126.0	42.448	39.883	33.640	26.049	19.909	17.672	16.736	14.180	13.160
126.5	42.373	39.724	33.518	25.955	19.862	17.625	16.614	13.993	12.964
127.0	42.092	39.602	33.415	25.908	19.834	17.578	16.474	13.843	12.767
127.5	41.905	39.415	33.275	25.824	19.796	17.503	16.399	13.712	12.617
128.0	41.774	39.246	33.153	25.721	19.731	17.484	16.314	13.506	12.449
128.5	41.568	39.059	33.022	25.665	19.731	17.466	16.193	13.338	12.290
129.0	41.362	38.956	32.910	25.562	19.647	17.382	16.099	13.151	12.131
129.5	41.221	38.750	32.751	25.497	19.609	17.325	16.034	12.992	12.028
130.0	40.950	38.619	32.620	25.366	19.572	17.222	15.865	12.842	11.878
130.5	40.791	38.432	32.470	25.300	19.572	17.194	15.800	12.702	11.681
131.0	40.604	38.245	32.329	25.244	19.478	17.138	15.706	12.570	11.597
131.5	40.445	38.086	32.208	25.122	19.441	17.101	15.594	12.393	11.513
132.0	40.173	37.899	32.030	25.094	19.413	17.063	15.500	12.262	11.354
132.5	39.930	37.655	31.899	24.954	19.356	17.007	15.435	12.121	11.213
133.0	39.761	37.477	31.749	24.841	19.272	16.951	15.322	12.000	11.185
133.5	39.509	37.290	31.590	24.767	19.263	16.904	15.238	11.906	11.045
134.0	39.303	37.066	31.440	24.654	19.179	16.885	15.135	11.775	10.998
134.5	39.106	36.860	31.281	24.533	19.169	16.829	15.070	11.634	10.876
135.0	38.872	36.663	31.085	24.420	19.094	16.754	14.976	11.550	10.783
135.5	38.647	36.410	30.963	24.327	19.038	16.764	14.882	11.447	10.689
136.0	38.395	36.279	30.776	24.214	18.973	16.661	14.770	11.279	10.567
136.5	38.161	36.064	30.617	24.139	18.926	16.614	14.667	11.204	10.446
137.0	37.899	35.811	30.448	23.999	18.879	16.558	14.630	11.092	10.315
137.5	37.637	35.596	30.280	23.896	18.786	16.511	14.489	10.961	10.268
138.0	37.356	35.371	30.102	23.802	18.767	16.427	14.442	10.904	10.240
138.5	37.140	35.128	29.952	23.681	18.711	16.427	14.405	10.811	10.118

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**CANDELA TABULATION - (Cont.)**

139.0	36.860	34.932	29.755	23.540	18.608	16.399	14.274	10.680	10.043
139.5	36.616	34.679	29.568	23.428	18.561	16.333	14.208	10.605	9.950
140.0	36.429	34.454	29.316	23.334	18.533	16.314	14.143	10.502	9.856
140.5	36.167	34.183	29.184	23.157	18.420	16.230	14.021	10.427	9.772
141.0	35.905	34.005	28.979	23.091	18.383	16.165	13.984	10.296	9.660
141.5	35.680	33.705	28.810	22.941	18.308	16.155	13.890	10.202	9.566
142.0	35.409	33.481	28.595	22.792	18.215	16.099	13.815	10.090	9.454
142.5	35.081	33.247	28.417	22.679	18.158	16.034	13.769	10.043	9.341
143.0	34.819	32.975	28.211	22.530	18.093	16.015	13.703	9.894	9.313
143.5	34.538	32.704	27.986	22.380	18.018	15.931	13.591	9.809	9.229
144.0	34.276	32.451	27.790	22.267	17.915	15.865	13.572	9.734	9.173
144.5	33.996	32.189	27.593	22.146	17.850	15.884	13.553	9.678	9.107
145.0	33.696	31.964	27.415	21.959	17.765	15.809	13.450	9.557	9.060
145.5	33.425	31.702	27.210	21.856	17.709	15.744	13.385	9.510	9.051
146.0	33.116	31.422	26.985	21.715	17.616	15.669	13.357	9.444	9.107
146.5	32.844	31.131	26.751	21.565	17.513	15.641	13.272	9.304	9.098
147.0	32.573	30.879	26.573	21.416	17.419	15.584	13.282	9.238	9.070
147.5	32.292	30.560	26.358	21.266	17.391	15.538	13.198	9.182	9.098
148.0	31.955	30.298	26.124	21.126	17.269	15.472	13.141	9.107	9.117
148.5	31.637	30.046	25.927	20.966	17.222	15.416	13.095	9.023	9.135
149.0	31.300	29.793	25.693	20.835	17.110	15.378	13.076	8.939	9.182
149.5	31.066	29.503	25.469	20.648	17.007	15.350	13.020	8.901	9.229
150.0	30.748	29.184	25.244	20.517	16.895	15.257	12.973	8.836	9.220
150.5	30.439	28.941	25.010	20.367	16.839	15.238	12.945	8.798	9.276
151.0	30.139	28.604	24.804	20.180	16.736	15.163	12.889	8.789	9.341
151.5	29.868	28.333	24.589	20.049	16.642	15.126	12.842	8.714	9.304
152.0	29.475	28.080	24.336	19.918	16.558	15.051	12.804	8.630	9.285
152.5	29.156	27.752	24.130	19.722	16.446	15.013	12.730	8.621	9.323
153.0	28.913	27.444	23.849	19.525	16.371	14.967	12.739	8.583	9.313
153.5	28.539	27.172	23.653	19.375	16.258	14.892	12.720	8.574	9.351
154.0	28.220	26.873	23.400	19.225	16.165	14.826	12.645	8.555	9.323
154.5	27.874	26.554	23.138	19.038	16.080	14.761	12.645	8.555	9.304
155.0	27.528	26.227	22.913	18.860	15.996	14.686	12.589	8.546	9.304
155.5	27.219	25.908	22.679	18.673	15.884	14.630	12.514	8.564	9.360
156.0	26.919	25.628	22.427	18.542	15.772	14.592	12.514	8.574	9.360
156.5	26.508	25.319	22.155	18.336	15.706	14.508	12.514	8.536	9.416
157.0	26.255	25.029	21.940	18.140	15.556	14.452	12.458	8.461	9.397
157.5	25.890	24.710	21.668	17.962	15.435	14.358	12.439	8.424	9.351
158.0	25.562	24.364	21.453	17.812	15.350	14.311	12.430	8.358	9.351
158.5	25.272	24.093	21.228	17.606	15.210	14.237	12.383	8.237	9.341
159.0	24.907	23.793	20.938	17.419	15.098	14.134	12.365	8.190	9.351
159.5	24.570	23.456	20.695	17.260	14.985	14.106	12.346	8.078	9.360
160.0	24.224	23.119	20.433	17.026	14.864	14.003	12.280	8.068	9.351
160.5	23.915	22.810	20.190	16.848	14.761	13.965	12.224	8.022	9.341
161.0	23.550	22.473	19.909	16.680	14.658	13.872	12.168	8.003	9.416
161.5	23.157	22.155	19.675	16.436	14.517	13.797	12.084	7.890	9.454
162.0	22.792	21.837	19.356	16.230	14.405	13.703	12.000	7.816	9.500
162.5	22.445	21.509	19.113	16.071	14.340	13.638	11.868	7.731	9.500
163.0	22.099	21.163	18.851	15.856	14.162	13.544	11.578	7.675	9.519
163.5	21.725	20.854	18.561	15.669	14.087	13.450	11.269	7.535	9.575
164.0	21.416	20.508	18.308	15.491	13.974	13.422	10.886	7.301	9.547
164.5	21.032	20.152	18.037	15.238	13.834	13.310	10.408	7.095	9.369
165.0	20.667	19.796	17.765	15.042	13.703	13.132	9.968	6.992	9.089
165.5	20.274	19.478	17.484	14.817	13.581	12.926	9.500	6.945	8.714
166.0	19.937	19.132	17.194	14.639	13.422	12.599	8.939	6.908	8.284
166.5	19.534	18.767	16.867	14.442	13.244	12.149	8.471	6.814	7.675



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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	19.122	18.420	16.605	14.255	12.964	11.672	8.096	6.767	6.954
<b>167.5</b>	18.757	18.074	16.333	14.021	12.561	11.101	7.722	6.571	6.327
<b>168.0</b>	18.336	17.662	15.959	13.843	12.000	10.483	7.488	6.440	5.579
<b>168.5</b>	17.952	17.297	15.678	13.619	11.503	9.903	7.338	6.281	4.886
<b>169.0</b>	17.559	16.960	15.416	13.282	10.830	9.285	7.170	5.972	4.062
<b>169.5</b>	17.148	16.605	15.070	12.870	10.230	8.686	7.104	5.635	3.182
<b>170.0</b>	16.717	16.221	14.723	12.318	9.557	8.227	6.973	5.148	2.368
<b>170.5</b>	16.305	15.734	14.358	11.747	8.986	7.928	6.786	4.549	1.713
<b>171.0</b>	15.884	15.285	13.825	11.148	8.508	7.628	6.636	4.025	1.048
<b>171.5</b>	15.500	14.901	13.366	10.521	8.181	7.460	6.374	3.576	0.693
<b>172.0</b>	15.051	14.471	12.917	9.922	7.890	7.338	5.925	3.042	0.618
<b>172.5</b>	14.667	13.881	12.290	9.482	7.638	7.123	5.401	2.518	0.608
<b>173.0</b>	13.993	13.347	11.691	9.070	7.422	6.880	4.867	2.012	0.580
<b>173.5</b>	13.188	12.739	11.017	8.583	7.151	6.384	4.165	1.704	0.496
<b>174.0</b>	12.758	11.953	10.240	8.190	6.926	5.663	3.444	1.572	0.431
<b>174.5</b>	12.056	11.195	9.538	7.741	6.505	4.942	2.752	1.413	0.365
<b>175.0</b>	11.213	10.380	8.864	7.179	5.897	4.118	2.200	1.292	0.281
<b>175.5</b>	10.118	9.435	8.068	6.608	5.148	3.220	1.881	1.067	0.206
<b>176.0</b>	9.023	8.387	7.282	5.925	4.352	2.443	1.666	0.889	0.271
<b>176.5</b>	7.844	7.207	6.355	4.961	3.426	1.881	1.423	0.627	0.215
<b>177.0</b>	6.468	6.009	5.316	3.978	2.593	1.582	1.198	0.412	0.178
<b>177.5</b>	5.045	4.661	4.334	3.098	1.909	1.395	1.011	0.271	0.178
<b>178.0</b>	3.529	3.267	3.304	2.106	1.404	1.161	0.796	0.225	0.300
<b>178.5</b>	2.246	2.087	2.181	1.338	1.133	0.955	0.599	0.243	0.206
<b>179.0</b>	1.320	1.254	1.170	0.833	0.880	0.758	0.468	0.225	0.234
<b>179.5</b>	0.468	0.711	0.449	0.449	0.608	0.608	0.290	0.234	0.328
<b>180.0</b>	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337	0.337

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 1 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	38.15	N.A.	7.40
0-30	87.62	N.A.	16.90
0-40	147.43	N.A.	28.50
0-60	252.27	N.A.	48.70
0-80	333.76	N.A.	64.40
0-90	366.69	N.A.	70.80
10-90	358.04	N.A.	69.10
20-40	109.28	N.A.	21.10
20-50	165.66	N.A.	32.00
40-70	148.05	N.A.	28.60
60-80	81.49	N.A.	15.70
70-80	38.28	N.A.	7.40
80-90	32.93	N.A.	6.40
90-110	60.20	N.A.	11.60
90-120	86.74	N.A.	16.70
90-130	108.92	N.A.	21.00
90-150	138.85	N.A.	26.80
90-180	151.52	N.A.	29.20
110-180	91.32	N.A.	17.60
0-180	518.20	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	8.65
10-20	29.51
20-30	49.46
30-40	59.81
40-50	56.38
50-60	48.46
60-70	43.20
70-80	38.28
80-90	32.93
90-100	30.68
100-110	29.52
110-120	26.54
120-130	22.18
130-140	17.38
140-150	12.55
150-160	8.03
160-170	3.95
170-180	0.69

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 1 LIGHT.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	112	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	100	94	89	85	85	94	89	85	81	80	76	73	71	68	66	63	61	59	54
2	90	81	74	68	68	85	77	70	65	69	64	59	61	57	53	54	51	48	44
3	82	71	63	56	56	77	67	60	54	60	54	49	54	49	44	47	44	40	37
4	75	63	54	47	47	70	60	51	45	53	47	41	48	42	38	42	38	34	31
5	69	56	47	40	40	65	53	45	39	48	41	36	43	37	33	38	33	30	27
6	63	50	41	35	35	60	48	40	34	43	36	31	39	33	29	34	30	26	23
7	59	45	37	31	31	55	43	35	29	39	32	27	35	29	25	31	27	23	21
8	54	41	33	27	27	51	39	32	26	36	29	24	32	26	22	29	24	21	18
9	51	38	30	24	24	48	36	28	23	33	26	22	29	24	20	27	22	19	16
10	47	35	27	22	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

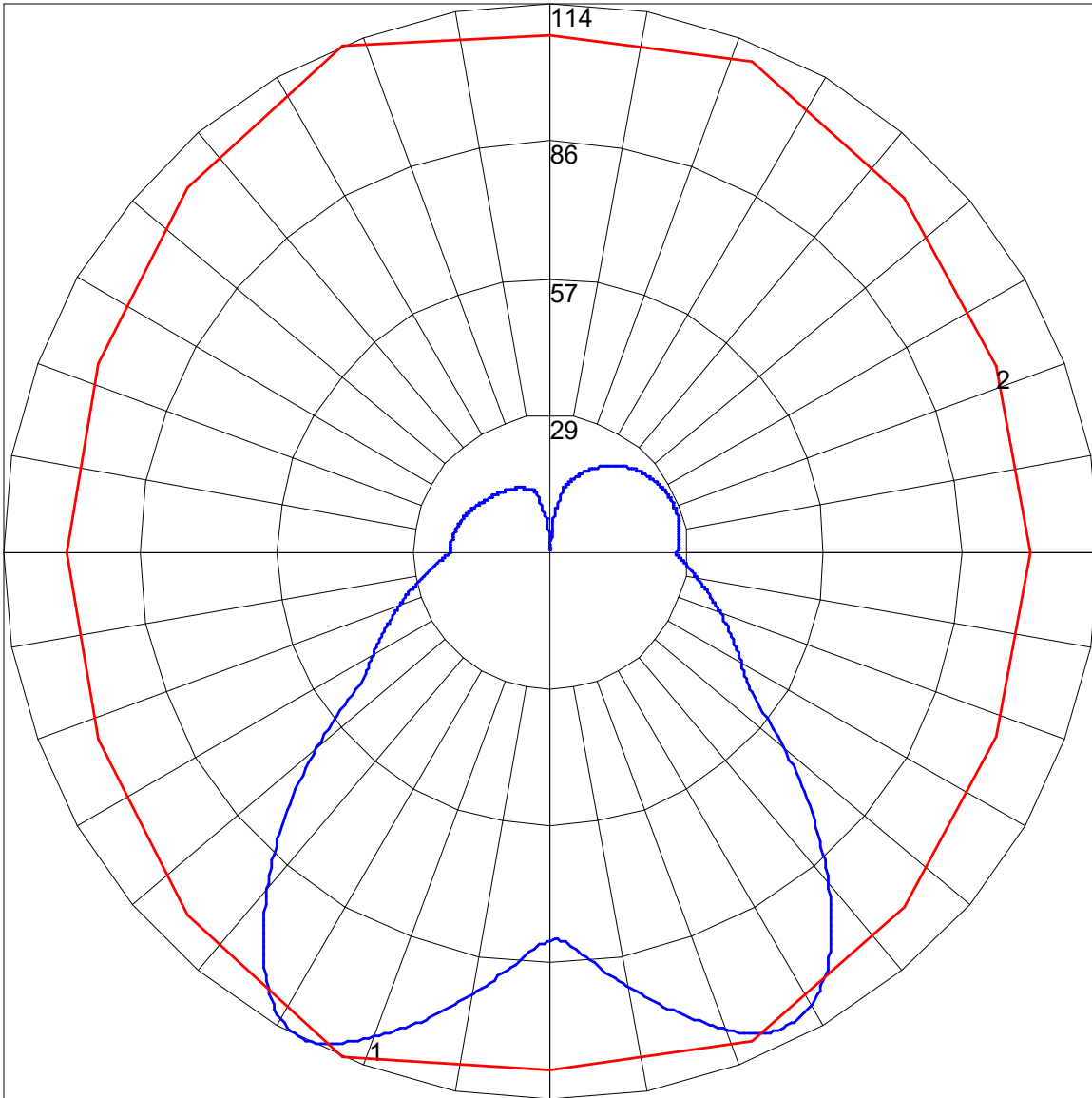
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CLD 1 LIGHT.IES**

**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					UGR Viewed Endwise				
X=2H	Y=2H	12.5	13.6	13.2	14.4	15.3	10.7	11.9	11.4	12.6	13.6
	3H	14.8	15.9	15.5	16.6	17.6	12.5	13.6	13.3	14.4	15.4
	4H	15.9	16.9	16.7	17.7	18.7	13.4	14.4	14.1	15.2	16.1
	6H	17.0	18.0	17.8	18.8	19.8	14.1	15.1	14.9	15.9	16.8
	8H	17.6	18.4	18.4	19.3	20.3	14.5	15.4	15.3	16.2	17.2
	12H	18.1	18.9	18.9	19.7	20.8	14.8	15.6	15.6	16.4	17.5
4H	2H	13.0	14.0	13.8	14.8	15.8	11.5	12.5	12.3	13.3	14.3
	3H	15.6	16.5	16.4	17.3	18.3	13.6	14.5	14.4	15.3	16.3
	4H	16.9	17.7	17.7	18.5	19.5	14.6	15.4	15.4	16.2	17.2
	6H	18.2	18.9	19.0	19.7	20.8	15.5	16.2	16.3	17.0	18.0
	8H	18.8	19.5	19.6	20.3	21.4	15.9	16.5	16.7	17.4	18.4
	12H	19.4	20.0	20.3	20.9	22.0	16.3	16.9	17.1	17.8	18.8
8H	4H	17.2	17.9	18.1	18.8	19.8	15.2	15.8	16.0	16.7	17.7
	6H	18.8	19.3	19.6	20.2	21.2	16.3	16.9	17.1	17.7	18.8
	8H	19.5	20.1	20.4	20.9	22.0	16.8	17.3	17.7	18.2	19.3
	12H	20.4	20.8	21.2	21.7	22.8	17.4	17.8	18.2	18.7	19.8
12H	4H	17.3	17.9	18.1	18.8	19.8	15.3	15.9	16.2	16.8	17.8
	6H	18.9	19.4	19.7	20.3	21.3	16.5	17.0	17.4	17.9	19.0
	8H	19.7	20.2	20.6	21.1	22.2	17.2	17.6	18.0	18.5	19.6

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 114.435 Located At Horizontal Angle = 112.5, Vertical Angle = 27.5  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27.5) (Through Max. Cd.)