



# The Perfect Lighting Choice.™

visit us at [www.JDG.com](http://www.JDG.com)

## IES INDOOR REPORT PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 18097-A  
[TESTLAB] LightLab International ([www.LightLabInternational.com](http://www.LightLabInternational.com))  
[MANUFAC] Justice Design Group, Los Angeles, CA 90071  
[LUMCAT] Textile Woven Fabric (FAB) 2-Light Bath Bar  
[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FAB 2-Light  
[MORE] Steel formed housing and two woven fabric lenses.  
[MORE] 20 LEDs mounted in two circular arrays with white plastic dome lenses.  
[MORE] No driver.  
[MORE] Operating at 120 VAC and 60 Hz.  
[MORE] Simulated data from test of one and six lamp fixtures.  
[ISSUE DATE] April 20, 2018

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	617
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	41
Total Luminaire Watts	14.98
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)	0.33 m
Luminous Height	0.14 m

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1652	1767	3530
55	1393	1386	2432
65	1246	1194	1948
75	1156	1074	1854
85	1113	1010	1887

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**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>	96.737	96.737	96.737	96.737	96.737	96.737	96.737	96.737	96.737
<b>0.5</b>	95.801	96.080	96.448	96.492	96.804	97.195	97.496	97.518	97.529
<b>1.0</b>	96.046	96.369	96.526	96.592	96.927	97.551	98.031	98.220	98.365
<b>1.5</b>	96.815	97.005	97.005	96.838	97.250	98.064	98.767	99.213	99.391
<b>2.0</b>	97.674	97.752	97.696	97.217	97.629	98.622	99.625	100.317	100.540
<b>2.5</b>	98.722	98.789	98.499	97.786	98.109	99.291	100.595	101.532	101.788
<b>3.0</b>	99.971	99.759	99.391	98.455	98.599	99.982	101.688	102.736	103.082
<b>3.5</b>	101.231	100.930	100.383	99.135	99.168	100.696	102.703	103.996	104.542
<b>4.0</b>	102.535	102.223	101.309	99.893	99.737	101.532	103.829	105.278	105.814
<b>4.5</b>	103.851	103.394	102.379	100.606	100.350	102.368	104.922	106.616	107.241
<b>5.0</b>	105.089	104.732	103.416	101.376	100.930	103.193	105.947	107.843	108.590
<b>5.5</b>	106.338	105.903	104.453	102.234	101.565	104.018	107.073	109.203	109.928
<b>6.0</b>	107.776	107.196	105.512	103.059	102.201	104.910	108.255	110.552	111.489
<b>6.5</b>	109.069	108.445	106.650	103.862	102.792	105.758	109.359	111.857	112.727
<b>7.0</b>	110.363	109.649	107.720	104.721	103.472	106.616	110.541	113.217	114.154
<b>7.5</b>	111.645	110.998	108.813	105.568	104.141	107.508	111.723	114.544	115.536
<b>8.0</b>	112.860	112.236	109.939	106.382	104.810	108.389	112.838	115.837	116.863
<b>8.5</b>	114.109	113.518	111.021	107.241	105.423	109.281	114.009	117.131	118.190
<b>9.0</b>	115.514	114.711	112.124	108.099	106.137	110.162	115.213	118.380	119.517
<b>9.5</b>	116.830	115.949	113.251	108.936	106.862	111.065	116.250	119.595	120.844
<b>10.0</b>	118.090	117.242	114.321	109.805	107.486	111.901	117.365	120.944	122.148
<b>10.5</b>	119.338	118.603	115.447	110.708	108.155	112.805	118.525	122.182	123.464
<b>11.0</b>	120.766	119.773	116.529	111.567	108.824	113.697	119.595	123.419	124.769
<b>11.5</b>	122.104	121.022	117.588	112.504	109.504	114.589	120.721	124.612	125.984
<b>12.0</b>	123.341	122.304	118.714	113.362	110.184	115.481	121.814	125.895	127.244
<b>12.5</b>	124.356	123.453	119.885	114.198	110.842	116.406	122.884	127.010	128.481
<b>13.0</b>	125.070	124.579	120.922	115.068	111.478	117.265	123.966	128.236	129.585
<b>13.5</b>	125.516	125.471	122.070	115.915	112.169	118.168	125.014	129.362	130.511
<b>14.0</b>	125.661	126.040	123.096	116.696	112.838	119.004	126.040	130.388	131.124
<b>14.5</b>	126.006	126.508	124.178	117.577	113.429	119.863	127.054	131.224	131.459
<b>15.0</b>	126.263	126.809	125.192	118.424	114.165	120.710	128.125	131.826	131.603
<b>15.5</b>	126.519	127.043	126.162	119.283	114.834	121.513	129.095	132.061	131.559
<b>16.0</b>	126.608	127.344	126.987	120.130	115.403	122.371	130.065	132.206	131.492
<b>16.5</b>	126.720	127.378	127.734	120.922	116.016	123.196	131.057	132.183	131.336
<b>17.0</b>	126.731	127.456	128.381	121.725	116.741	123.966	131.938	132.072	131.102
<b>17.5</b>	126.876	127.623	128.894	122.561	117.320	124.735	132.696	131.949	131.013
<b>18.0</b>	126.798	127.601	129.217	123.330	117.934	125.560	133.376	131.737	130.711
<b>18.5</b>	126.876	127.589	129.496	124.111	118.580	126.307	133.800	131.537	130.410
<b>19.0</b>	126.854	127.645	129.619	124.891	119.205	127.099	134.034	131.314	130.121
<b>19.5</b>	126.686	127.478	129.708	125.683	119.829	127.824	134.123	131.068	129.786
<b>20.0</b>	126.474	127.433	129.741	126.385	120.420	128.615	134.079	130.734	129.518
<b>20.5</b>	126.296	127.333	129.730	127.166	121.078	129.329	133.956	130.444	129.128
<b>21.0</b>	125.884	127.054	129.686	127.868	121.680	130.076	133.778	130.109	128.760
<b>21.5</b>	125.661	126.776	129.596	128.604	122.304	130.812	133.544	129.697	128.392
<b>22.0</b>	125.438	126.564	129.452	129.273	122.929	131.481	133.298	129.318	127.913
<b>22.5</b>	125.070	126.196	129.307	129.909	123.564	132.194	133.053	128.849	127.344
<b>23.0</b>	124.713	125.761	129.150	130.466	124.155	132.819	132.707	128.359	126.876
<b>23.5</b>	124.200	125.248	128.838	130.856	124.679	133.477	132.317	127.891	126.240
<b>24.0</b>	123.709	124.713	128.560	131.191	125.304	134.090	131.938	127.255	125.594
<b>24.5</b>	123.286	124.278	128.236	131.481	125.850	134.692	131.514	126.553	125.014
<b>25.0</b>	122.773	123.687	127.790	131.715	126.408	135.216	131.035	125.962	124.356
<b>25.5</b>	122.204	123.129	127.366	131.893	126.965	135.617	130.578	125.248	123.609
<b>26.0</b>	121.580	122.494	126.842	131.938	127.445	135.974	129.976	124.479	122.895
<b>26.5</b>	120.989	121.836	126.296	132.072	127.957	136.197	129.429	123.743	122.048

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

27.0	120.175	121.111	125.683	132.027	128.426	136.298	128.816	122.884	121.245
27.5	119.617	120.498	125.047	131.938	128.883	136.320	128.091	122.093	120.420
28.0	118.792	119.751	124.300	131.726	129.307	136.231	127.366	121.212	119.528
28.5	118.000	118.881	123.542	131.492	129.786	135.963	126.575	120.309	118.569
29.0	117.242	118.056	122.795	131.068	130.254	135.617	125.716	119.338	117.610
29.5	116.406	117.276	121.948	130.633	130.678	135.149	124.847	118.368	116.629
30.0	115.570	116.417	121.044	130.098	131.024	134.558	123.910	117.376	115.547
30.5	114.522	115.525	120.119	129.440	131.470	133.923	122.862	116.306	114.421
31.0	113.697	114.700	119.149	128.861	131.815	133.209	121.847	115.213	113.362
31.5	112.805	113.752	118.212	128.169	132.206	132.429	120.777	114.143	112.169
32.0	111.745	112.760	117.276	127.366	132.585	131.525	119.684	113.016	111.054
32.5	110.786	111.823	116.172	126.586	132.808	130.533	118.536	111.812	109.738
33.0	109.749	110.775	115.146	125.661	133.086	129.452	117.421	110.586	108.523
33.5	108.556	109.816	114.109	124.679	133.298	128.392	116.261	109.326	107.073
34.0	107.586	108.713	112.961	123.754	133.231	127.121	115.012	108.110	105.847
34.5	106.549	107.642	111.890	122.605	133.064	125.906	113.797	106.817	104.498
35.0	105.323	106.516	110.731	121.457	132.507	124.635	112.470	105.501	103.059
35.5	104.230	105.479	109.616	120.275	131.748	123.319	111.221	104.174	101.643
36.0	103.071	104.264	108.411	119.037	130.767	121.925	109.917	102.736	100.294
36.5	101.844	103.126	107.285	117.699	129.608	120.598	108.590	101.420	98.811
37.0	100.763	101.989	106.081	116.328	128.147	119.104	107.230	100.038	97.395
37.5	99.603	100.796	104.810	114.934	126.318	117.644	105.847	98.566	95.890
38.0	98.376	99.570	103.650	113.540	124.300	116.172	104.487	97.117	94.407
38.5	97.195	98.354	102.379	112.046	122.204	114.622	103.004	95.589	92.969
39.0	96.002	97.195	101.164	110.563	120.041	113.139	101.599	94.139	91.508
39.5	94.864	95.946	99.904	109.025	117.878	111.578	100.138	92.612	89.969
40.0	93.883	94.753	98.611	107.497	115.704	110.039	98.700	91.118	88.531
40.5	92.746	93.537	97.317	105.992	113.641	108.456	97.172	89.613	87.037
41.0	91.597	92.367	96.057	104.409	111.578	106.906	95.689	88.107	85.599
41.5	90.739	91.218	94.708	102.937	109.582	105.323	94.151	86.580	84.216
42.0	89.802	90.070	93.392	101.387	107.731	103.740	92.634	85.086	82.822
42.5	89.022	88.932	92.043	99.826	105.825	102.123	91.051	83.614	81.484
43.0	88.353	87.873	90.728	98.287	104.030	100.540	89.468	82.176	80.090
43.5	87.773	86.959	89.367	96.671	102.346	98.878	87.918	80.793	78.931
44.0	87.293	86.033	88.052	95.087	100.662	97.206	86.268	79.332	77.805
44.5	86.580	85.320	86.725	93.593	99.034	95.567	84.673	78.050	76.745
45.0	85.989	84.629	85.364	91.909	97.406	93.827	83.056	76.812	75.887
45.5	85.431	83.971	84.116	90.360	95.890	92.177	81.529	75.686	75.040
46.0	84.818	83.424	82.811	88.776	94.284	90.415	79.946	74.638	74.237
46.5	84.171	82.800	81.540	87.193	92.779	88.654	78.373	73.724	73.389
47.0	83.514	82.142	80.358	85.521	91.162	86.903	76.745	72.876	72.531
47.5	82.934	81.562	79.132	83.915	89.523	85.097	75.263	72.029	71.672
48.0	82.343	80.971	78.083	82.309	87.884	83.302	73.780	71.226	70.780
48.5	81.696	80.291	77.058	80.615	86.190	81.451	72.297	70.379	70.033
49.0	81.172	79.689	76.177	79.031	84.461	79.689	70.936	69.565	69.230
49.5	80.570	79.065	75.274	77.359	82.688	77.849	69.621	68.729	68.394
50.0	79.979	78.474	74.482	75.742	80.882	76.099	68.461	67.959	67.647
50.5	79.388	77.838	73.668	74.192	78.987	74.281	67.368	67.123	66.867
51.0	78.853	77.270	72.977	72.676	77.091	72.453	66.376	66.365	66.041
51.5	78.362	76.623	72.352	70.981	75.184	70.680	65.495	65.551	65.339
52.0	77.716	76.099	71.795	69.498	73.166	68.918	64.659	64.848	64.614
52.5	77.270	75.519	71.170	68.004	71.104	67.179	63.945	64.079	63.878
53.0	76.712	74.917	70.580	66.465	69.152	65.462	63.142	63.287	63.154
53.5	76.244	74.371	69.966	65.138	67.134	63.834	62.395	62.708	62.418
54.0	75.764	73.880	69.398	63.767	65.161	62.217	61.682	61.905	61.760
54.5	75.129	73.300	68.796	62.518	63.287	60.734	60.957	61.225	61.158

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

55.0	74.627	72.854	68.216	61.392	61.381	59.229	60.243	60.511	60.444
55.5	74.292	72.352	67.625	60.455	59.586	57.824	59.530	59.864	59.853
56.0	73.835	71.839	67.078	59.496	57.779	56.642	58.816	59.207	59.184
56.5	73.378	71.327	66.465	58.727	56.096	55.516	58.125	58.571	58.538
57.0	72.988	70.914	65.919	57.902	54.524	54.657	57.478	57.913	57.935
57.5	72.520	70.357	65.372	57.121	52.963	53.977	56.809	57.278	57.333
58.0	72.152	69.911	64.793	56.553	51.513	53.420	56.096	56.675	56.720
58.5	71.639	69.498	64.302	56.118	50.242	52.829	55.460	56.051	56.073
59.0	71.293	69.030	63.789	55.594	49.160	52.282	54.836	55.416	55.505
59.5	70.858	68.584	63.254	55.137	48.268	51.747	54.167	54.869	54.992
60.0	70.390	68.171	62.763	54.657	47.599	51.190	53.587	54.267	54.345
60.5	69.977	67.747	62.284	54.167	47.042	50.599	52.963	53.643	53.843
61.0	69.609	67.313	61.782	53.654	46.585	50.019	52.327	53.096	53.197
61.5	69.308	66.933	61.214	53.197	46.172	49.473	51.769	52.517	52.717
62.0	68.862	66.487	60.790	52.628	45.782	48.937	51.156	51.959	52.104
62.5	68.450	66.064	60.310	52.171	45.325	48.358	50.610	51.413	51.524
63.0	68.093	65.651	59.809	51.669	44.890	47.800	50.052	50.788	51.045
63.5	67.625	65.239	59.363	51.179	44.444	47.243	49.484	50.309	50.454
64.0	67.257	64.882	58.950	50.710	43.987	46.741	48.893	49.774	49.952
64.5	66.989	64.480	58.459	50.186	43.518	46.172	48.380	49.261	49.406
65.0	66.610	64.079	58.092	49.718	43.072	45.659	47.834	48.703	48.893
65.5	66.186	63.689	57.590	49.272	42.604	45.068	47.231	48.246	48.369
66.0	65.818	63.343	57.188	48.781	42.147	44.567	46.730	47.711	47.867
66.5	65.495	62.919	56.742	48.268	41.701	44.054	46.172	47.187	47.399
67.0	65.149	62.596	56.308	47.889	41.166	43.496	45.604	46.663	46.875
67.5	64.737	62.206	55.862	47.421	40.753	42.950	45.146	46.172	46.362
68.0	64.380	61.804	55.471	46.886	40.318	42.515	44.645	45.659	45.905
68.5	64.068	61.437	55.070	46.473	39.828	41.935	44.121	45.213	45.470
69.0	63.745	61.113	54.635	46.016	39.348	41.489	43.663	44.712	44.890
69.5	63.388	60.734	54.245	45.525	38.902	41.010	43.151	44.232	44.444
70.0	63.076	60.411	53.810	45.124	38.423	40.463	42.693	43.764	44.020
70.5	62.663	60.032	53.375	44.689	37.955	39.984	42.203	43.318	43.440
71.0	62.306	59.675	53.063	44.187	37.497	39.504	41.712	42.805	43.050
71.5	62.027	59.396	52.673	43.797	37.051	39.025	41.233	42.370	42.593
72.0	61.704	59.028	52.260	43.340	36.617	38.512	40.787	41.891	42.147
72.5	61.403	58.682	51.914	42.872	36.159	38.066	40.318	41.467	41.679
73.0	61.035	58.348	51.535	42.504	35.713	37.587	39.884	40.987	41.244
73.5	60.689	58.036	51.145	42.047	35.267	37.107	39.404	40.575	40.787
74.0	60.455	57.668	50.788	41.601	34.844	36.650	38.980	40.129	40.374
74.5	60.199	57.322	50.387	41.233	34.364	36.182	38.534	39.694	39.917
75.0	59.831	57.043	50.041	40.842	33.974	35.769	38.122	39.293	39.460
75.5	59.463	56.698	49.729	40.396	33.550	35.346	37.676	38.813	39.047
76.0	59.162	56.386	49.383	40.017	33.093	34.866	37.230	38.401	38.601
76.5	58.805	56.073	48.993	39.638	32.658	34.476	36.806	37.977	38.211
77.0	58.448	55.739	48.714	39.237	32.279	34.052	36.360	37.587	37.810
77.5	58.270	55.471	48.346	38.824	31.833	33.584	35.959	37.141	37.442
78.0	57.935	55.137	47.956	38.468	31.465	33.205	35.557	36.728	36.996
78.5	57.556	54.802	47.677	38.022	31.030	32.792	35.156	36.327	36.605
79.0	57.356	54.490	47.343	37.698	30.629	32.346	34.732	35.936	36.126
79.5	56.965	54.189	46.964	37.364	30.228	31.934	34.331	35.513	35.758
80.0	56.787	53.877	46.685	36.929	29.849	31.532	33.929	35.123	35.368
80.5	56.464	53.609	46.328	36.594	29.492	31.142	33.506	34.766	35.022
81.0	56.140	53.319	46.005	36.238	29.102	30.741	33.171	34.353	34.565
81.5	55.928	52.974	45.715	35.881	28.778	30.406	32.792	33.985	34.197
82.0	55.560	52.684	45.369	35.569	28.410	30.005	32.368	33.651	33.851
82.5	55.315	52.450	45.024	35.245	28.031	29.592	32.012	33.272	33.483

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

83.0	54.947	52.104	44.756	34.877	27.663	29.258	31.655	32.893	33.093
83.5	54.680	51.859	44.455	34.543	27.329	28.912	31.276	32.502	32.703
84.0	54.445	51.591	44.121	34.264	26.983	28.533	30.941	32.179	32.335
84.5	54.156	51.268	43.875	33.907	26.660	28.176	30.562	31.778	31.956
85.0	53.921	50.978	43.585	33.617	26.359	27.819	30.239	31.454	31.688
85.5	53.665	50.710	43.262	33.316	26.002	27.440	29.927	31.097	31.298
86.0	53.397	50.431	42.983	32.993	25.712	27.139	29.525	30.674	31.019
86.5	53.119	50.208	42.760	32.714	25.389	26.793	29.191	30.361	30.562
87.0	52.818	49.930	42.437	32.502	25.099	26.470	28.890	30.072	30.250
87.5	52.572	49.640	42.203	32.168	24.876	26.169	28.555	29.704	29.960
88.0	52.338	49.473	41.969	31.956	24.541	25.868	28.265	29.403	29.592
88.5	52.082	49.216	41.712	31.722	24.340	25.567	27.953	29.102	29.269
89.0	52.037	49.071	41.523	31.465	24.106	25.355	27.652	28.756	28.901
89.5	52.059	49.060	41.523	31.443	23.939	25.132	27.373	28.477	28.622
90.0	51.959	49.127	41.601	31.488	24.028	25.076	27.262	28.310	28.433
90.5	52.126	49.194	41.612	31.521	24.028	25.099	27.195	28.221	28.377
91.0	52.271	49.238	41.679	31.588	24.006	25.099	27.139	28.176	28.321
91.5	52.316	49.372	41.734	31.655	24.084	25.110	27.128	28.154	28.221
92.0	52.405	49.361	41.846	31.633	24.095	25.110	27.072	28.065	28.187
92.5	52.472	49.450	41.891	31.722	24.162	25.076	27.028	27.975	28.109
93.0	52.561	49.528	41.891	31.800	24.140	25.009	27.028	27.942	28.065
93.5	52.695	49.584	42.047	31.833	24.251	25.021	27.028	27.897	27.987
94.0	52.751	49.696	42.091	31.922	24.229	24.998	26.927	27.853	27.897
94.5	52.829	49.729	42.158	31.945	24.285	24.943	26.961	27.775	27.764
95.0	52.996	49.807	42.203	32.001	24.285	24.943	26.883	27.619	27.685
95.5	52.974	49.930	42.259	32.067	24.318	24.931	26.827	27.574	27.652
96.0	53.107	49.985	42.337	32.112	24.340	24.909	26.771	27.518	27.507
96.5	53.174	50.041	42.470	32.145	24.407	24.876	26.704	27.396	27.440
97.0	53.252	50.119	42.448	32.224	24.396	24.853	26.671	27.318	27.295
97.5	53.308	50.186	42.515	32.313	24.407	24.798	26.637	27.295	27.239
98.0	53.431	50.197	42.593	32.302	24.497	24.820	26.537	27.184	27.150
98.5	53.442	50.298	42.649	32.402	24.508	24.753	26.504	27.106	27.039
99.0	53.509	50.365	42.649	32.491	24.541	24.686	26.481	27.016	26.950
99.5	53.587	50.387	42.727	32.458	24.563	24.686	26.359	26.927	26.793
100.0	53.609	50.443	42.760	32.525	24.619	24.642	26.336	26.849	26.727
100.5	53.698	50.454	42.771	32.580	24.630	24.608	26.303	26.738	26.615
101.0	53.687	50.487	42.816	32.647	24.686	24.563	26.236	26.615	26.504
101.5	53.810	50.510	42.861	32.670	24.708	24.485	26.158	26.548	26.347
102.0	53.765	50.543	42.849	32.725	24.798	24.463	26.080	26.426	26.303
102.5	53.799	50.543	42.861	32.736	24.798	24.430	25.980	26.314	26.191
103.0	53.810	50.576	42.883	32.781	24.865	24.340	25.890	26.225	26.091
103.5	53.810	50.588	42.861	32.848	24.842	24.307	25.823	26.158	25.890
104.0	53.899	50.599	42.816	32.781	24.865	24.251	25.723	26.046	25.846
104.5	53.921	50.643	42.827	32.848	24.887	24.184	25.589	25.913	25.667
105.0	53.821	50.654	42.805	32.881	24.954	24.117	25.467	25.835	25.545
105.5	53.877	50.588	42.794	32.814	24.976	24.062	25.344	25.690	25.400
106.0	53.921	50.599	42.827	32.837	24.943	24.017	25.221	25.534	25.311
106.5	53.899	50.621	42.805	32.837	24.976	23.961	25.110	25.422	25.166
107.0	53.933	50.621	42.771	32.826	24.943	23.917	24.976	25.255	25.054
107.5	53.899	50.588	42.760	32.814	24.943	23.850	24.865	25.121	24.865
108.0	53.899	50.576	42.738	32.870	24.976	23.716	24.742	24.898	24.675
108.5	53.921	50.565	42.760	32.814	24.931	23.694	24.630	24.764	24.474
109.0	53.821	50.554	42.705	32.814	24.954	23.571	24.508	24.575	24.352
109.5	53.855	50.476	42.649	32.770	24.898	23.538	24.385	24.430	24.073
110.0	53.799	50.487	42.615	32.770	24.931	23.482	24.262	24.207	23.984
110.5	53.810	50.398	42.615	32.759	24.887	23.415	24.106	24.095	23.705

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

111.0	53.743	50.409	42.571	32.792	24.898	23.348	24.006	23.906	23.504
111.5	53.710	50.376	42.571	32.748	24.842	23.292	23.828	23.750	23.404
112.0	53.576	50.353	42.526	32.736	24.831	23.181	23.716	23.549	23.159
112.5	53.609	50.309	42.437	32.703	24.853	23.147	23.616	23.393	22.936
113.0	53.587	50.242	42.437	32.670	24.842	23.047	23.493	23.225	22.735
113.5	53.520	50.186	42.381	32.625	24.809	23.002	23.315	22.991	22.579
114.0	53.431	50.153	42.303	32.625	24.798	22.947	23.203	22.869	22.400
114.5	53.453	50.086	42.270	32.569	24.786	22.835	23.092	22.612	22.177
115.0	53.319	50.008	42.169	32.525	24.731	22.768	22.858	22.367	21.921
115.5	53.275	50.019	42.125	32.491	24.742	22.679	22.802	22.144	21.720
116.0	53.163	49.863	42.036	32.413	24.653	22.668	22.612	21.843	21.486
116.5	53.174	49.818	41.980	32.402	24.686	22.534	22.423	21.609	21.252
117.0	53.029	49.740	41.891	32.346	24.630	22.490	22.345	21.397	20.851
117.5	52.907	49.629	41.857	32.290	24.575	22.412	22.222	21.096	20.639
118.0	52.840	49.551	41.723	32.201	24.530	22.311	22.044	20.873	20.282
118.5	52.740	49.506	41.656	32.157	24.463	22.233	21.887	20.628	20.025
119.0	52.606	49.361	41.578	32.134	24.430	22.166	21.798	20.371	19.713
119.5	52.494	49.294	41.500	32.079	24.430	22.099	21.598	20.081	19.379
120.0	52.394	49.227	41.433	31.989	24.352	22.021	21.508	19.780	19.078
120.5	52.316	49.049	41.344	31.878	24.296	21.910	21.341	19.513	18.788
121.0	52.204	48.971	41.210	31.878	24.207	21.832	21.163	19.267	18.487
121.5	52.004	48.893	41.099	31.822	24.207	21.720	21.085	19.022	18.175
122.0	51.914	48.726	41.021	31.688	24.173	21.631	20.929	18.743	17.851
122.5	51.758	48.614	40.943	31.610	24.084	21.598	20.784	18.509	17.584
123.0	51.636	48.514	40.798	31.577	24.028	21.464	20.661	18.253	17.283
123.5	51.468	48.302	40.675	31.432	23.984	21.397	20.538	18.030	16.915
124.0	51.446	48.146	40.597	31.387	23.961	21.330	20.338	17.762	16.669
124.5	51.167	48.034	40.475	31.309	23.872	21.218	20.237	17.539	16.402
125.0	50.978	47.856	40.363	31.220	23.794	21.196	20.137	17.294	16.123
125.5	50.788	47.711	40.196	31.097	23.738	21.096	20.014	17.082	15.911
126.0	50.565	47.510	40.073	31.030	23.716	21.051	19.936	16.892	15.677
126.5	50.476	47.321	39.928	30.919	23.660	20.995	19.791	16.669	15.443
127.0	50.142	47.176	39.806	30.863	23.627	20.940	19.624	16.491	15.209
127.5	49.919	46.953	39.638	30.763	23.582	20.851	19.535	16.335	15.030
128.0	49.762	46.752	39.493	30.640	23.504	20.828	19.434	16.089	14.830
128.5	49.517	46.529	39.337	30.573	23.504	20.806	19.290	15.889	14.640
129.0	49.272	46.406	39.203	30.451	23.404	20.706	19.178	15.666	14.450
129.5	49.105	46.161	39.014	30.373	23.359	20.639	19.100	15.476	14.328
130.0	48.781	46.005	38.858	30.217	23.315	20.516	18.899	15.298	14.149
130.5	48.592	45.782	38.679	30.138	23.315	20.483	18.821	15.131	13.915
131.0	48.369	45.559	38.512	30.072	23.203	20.416	18.710	14.974	13.815
131.5	48.179	45.369	38.367	29.927	23.159	20.371	18.576	14.763	13.715
132.0	47.856	45.146	38.155	29.893	23.125	20.326	18.464	14.607	13.525
132.5	47.566	44.856	37.999	29.726	23.058	20.260	18.386	14.439	13.358
133.0	47.365	44.645	37.821	29.592	22.958	20.193	18.253	14.294	13.324
133.5	47.064	44.422	37.631	29.503	22.947	20.137	18.152	14.183	13.157
134.0	46.819	44.154	37.453	29.369	22.846	20.115	18.030	14.027	13.101
134.5	46.585	43.909	37.263	29.224	22.835	20.048	17.952	13.859	12.956
135.0	46.306	43.675	37.029	29.090	22.746	19.959	17.840	13.759	12.845
135.5	46.038	43.374	36.884	28.979	22.679	19.970	17.729	13.636	12.733
136.0	45.737	43.217	36.661	28.845	22.601	19.847	17.595	13.436	12.588
136.5	45.459	42.961	36.472	28.756	22.545	19.791	17.472	13.347	12.443
137.0	45.146	42.660	36.271	28.589	22.490	19.724	17.427	13.213	12.287
137.5	44.834	42.403	36.070	28.466	22.378	19.669	17.260	13.057	12.232
138.0	44.500	42.136	35.858	28.354	22.356	19.568	17.204	12.990	12.198
138.5	44.243	41.846	35.680	28.210	22.289	19.568	17.160	12.878	12.053

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

139.0	43.909	41.612	35.446	28.042	22.166	19.535	17.004	12.722	11.964
139.5	43.619	41.311	35.223	27.908	22.110	19.457	16.926	12.633	11.852
140.0	43.396	41.043	34.922	27.797	22.077	19.434	16.848	12.510	11.741
140.5	43.084	40.720	34.766	27.585	21.943	19.334	16.703	12.421	11.641
141.0	42.771	40.508	34.520	27.507	21.899	19.256	16.658	12.265	11.507
141.5	42.504	40.151	34.320	27.329	21.809	19.245	16.547	12.154	11.395
142.0	42.180	39.884	34.063	27.150	21.698	19.178	16.457	12.020	11.262
142.5	41.790	39.605	33.851	27.016	21.631	19.100	16.402	11.964	11.128
143.0	41.478	39.281	33.606	26.838	21.553	19.078	16.324	11.786	11.094
143.5	41.144	38.958	33.339	26.660	21.464	18.977	16.190	11.685	10.994
144.0	40.831	38.657	33.104	26.526	21.341	18.899	16.168	11.596	10.927
144.5	40.497	38.345	32.870	26.381	21.263	18.922	16.145	11.529	10.849
145.0	40.140	38.077	32.658	26.158	21.163	18.832	16.023	11.384	10.793
145.5	39.817	37.765	32.413	26.035	21.096	18.754	15.945	11.328	10.782
146.0	39.449	37.431	32.145	25.868	20.984	18.665	15.911	11.250	10.849
146.5	39.125	37.085	31.867	25.690	20.862	18.632	15.811	11.083	10.838
147.0	38.802	36.784	31.655	25.511	20.750	18.565	15.822	11.005	10.804
147.5	38.468	36.405	31.398	25.333	20.717	18.509	15.722	10.938	10.838
148.0	38.066	36.093	31.120	25.166	20.572	18.431	15.655	10.849	10.860
148.5	37.687	35.792	30.886	24.976	20.516	18.364	15.599	10.749	10.882
149.0	37.286	35.490	30.607	24.820	20.382	18.319	15.577	10.648	10.938
149.5	37.007	35.145	30.339	24.597	20.260	18.286	15.510	10.604	10.994
150.0	36.628	34.766	30.072	24.441	20.126	18.175	15.454	10.526	10.983
150.5	36.260	34.476	29.793	24.262	20.059	18.152	15.420	10.481	11.050
151.0	35.903	34.074	29.548	24.039	19.936	18.063	15.354	10.470	11.128
151.5	35.580	33.751	29.291	23.883	19.825	18.018	15.298	10.381	11.083
152.0	35.111	33.450	28.990	23.727	19.724	17.929	15.253	10.280	11.061
152.5	34.732	33.060	28.745	23.493	19.591	17.885	15.164	10.269	11.105
153.0	34.442	32.692	28.410	23.259	19.501	17.829	15.175	10.225	11.094
153.5	33.996	32.368	28.176	23.081	19.368	17.740	15.153	10.213	11.139
154.0	33.617	32.012	27.875	22.902	19.256	17.662	15.064	10.191	11.105
154.5	33.205	31.633	27.563	22.679	19.156	17.584	15.064	10.191	11.083
155.0	32.792	31.242	27.295	22.467	19.055	17.494	14.997	10.180	11.083
155.5	32.424	30.863	27.016	22.244	18.922	17.427	14.908	10.202	11.150
156.0	32.067	30.529	26.715	22.088	18.788	17.383	14.908	10.213	11.150
156.5	31.577	30.161	26.392	21.843	18.710	17.283	14.908	10.169	11.217
157.0	31.276	29.815	26.136	21.609	18.531	17.216	14.841	10.080	11.195
157.5	30.841	29.436	25.812	21.397	18.386	17.104	14.818	10.035	11.139
158.0	30.451	29.023	25.556	21.218	18.286	17.048	14.807	9.957	11.139
158.5	30.105	28.700	25.288	20.973	18.119	16.959	14.751	9.812	11.128
159.0	29.670	28.343	24.943	20.750	17.985	16.837	14.729	9.756	11.139
159.5	29.269	27.942	24.653	20.561	17.851	16.803	14.707	9.622	11.150
160.0	28.856	27.541	24.340	20.282	17.706	16.680	14.629	9.611	11.139
160.5	28.488	27.173	24.051	20.070	17.584	16.636	14.562	9.556	11.128
161.0	28.053	26.771	23.716	19.869	17.461	16.524	14.495	9.533	11.217
161.5	27.585	26.392	23.437	19.579	17.294	16.435	14.395	9.399	11.262
162.0	27.150	26.013	23.058	19.334	17.160	16.324	14.294	9.310	11.317
162.5	26.738	25.623	22.768	19.145	17.082	16.246	14.138	9.210	11.317
163.0	26.325	25.210	22.456	18.888	16.870	16.134	13.793	9.143	11.340
163.5	25.879	24.842	22.110	18.665	16.781	16.023	13.425	8.976	11.406
164.0	25.511	24.430	21.809	18.453	16.647	15.989	12.967	8.697	11.373
164.5	25.054	24.006	21.486	18.152	16.480	15.855	12.399	8.452	11.161
165.0	24.619	23.582	21.163	17.918	16.324	15.643	11.875	8.329	10.827
165.5	24.151	23.203	20.828	17.650	16.179	15.398	11.317	8.273	10.381
166.0	23.750	22.791	20.483	17.439	15.989	15.008	10.648	8.229	9.868
166.5	23.270	22.356	20.092	17.204	15.777	14.473	10.091	8.117	9.143

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	22.779	21.943	19.780	16.981	15.443	13.904	9.645	8.061	8.284
<b>167.5</b>	22.345	21.531	19.457	16.703	14.963	13.224	9.199	7.827	7.537
<b>168.0</b>	21.843	21.040	19.011	16.491	14.294	12.488	8.920	7.671	6.645
<b>168.5</b>	21.386	20.605	18.676	16.223	13.703	11.797	8.742	7.482	5.820
<b>169.0</b>	20.917	20.204	18.364	15.822	12.901	11.061	8.541	7.114	4.839
<b>169.5</b>	20.427	19.780	17.952	15.331	12.187	10.347	8.463	6.712	3.791
<b>170.0</b>	19.914	19.323	17.539	14.673	11.384	9.801	8.307	6.133	2.821
<b>170.5</b>	19.423	18.743	17.104	13.993	10.704	9.444	8.084	5.419	2.040
<b>171.0</b>	18.922	18.208	16.469	13.280	10.135	9.087	7.905	4.795	1.249
<b>171.5</b>	18.464	17.751	15.922	12.533	9.745	8.887	7.593	4.259	0.825
<b>172.0</b>	17.929	17.238	15.387	11.819	9.399	8.742	7.058	3.624	0.736
<b>172.5</b>	17.472	16.535	14.640	11.295	9.098	8.485	6.434	2.999	0.725
<b>173.0</b>	16.669	15.900	13.926	10.804	8.842	8.195	5.798	2.397	0.691
<b>173.5</b>	15.710	15.175	13.124	10.225	8.519	7.604	4.962	2.029	0.591
<b>174.0</b>	15.197	14.239	12.198	9.756	8.251	6.746	4.103	1.873	0.513
<b>174.5</b>	14.361	13.335	11.362	9.221	7.749	5.887	3.278	1.684	0.435
<b>175.0</b>	13.358	12.365	10.559	8.552	7.025	4.906	2.620	1.539	0.335
<b>175.5</b>	12.053	11.239	9.611	7.872	6.133	3.836	2.241	1.271	0.245
<b>176.0</b>	10.749	9.990	8.675	7.058	5.185	2.910	1.985	1.059	0.323
<b>176.5</b>	9.344	8.586	7.571	5.910	4.081	2.241	1.695	0.747	0.256
<b>177.0</b>	7.705	7.158	6.333	4.739	3.089	1.884	1.427	0.491	0.212
<b>177.5</b>	6.010	5.553	5.162	3.691	2.275	1.661	1.204	0.323	0.212
<b>178.0</b>	4.204	3.891	3.936	2.509	1.673	1.383	0.948	0.268	0.357
<b>178.5</b>	2.676	2.486	2.598	1.594	1.349	1.137	0.714	0.290	0.245
<b>179.0</b>	1.572	1.494	1.394	0.992	1.048	0.903	0.558	0.268	0.279
<b>179.5</b>	0.558	0.847	0.535	0.535	0.725	0.725	0.346	0.279	0.390
<b>180.0</b>	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401	0.401



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	45.45	N.A.	7.40
0-30	104.37	N.A.	16.90
0-40	175.63	N.A.	28.50
0-60	300.52	N.A.	48.70
0-80	397.59	N.A.	64.40
0-90	436.81	N.A.	70.80
10-90	426.52	N.A.	69.10
20-40	130.18	N.A.	21.10
20-50	197.34	N.A.	32.00
40-70	176.36	N.A.	28.60
60-80	97.07	N.A.	15.70
70-80	45.60	N.A.	7.40
80-90	39.22	N.A.	6.40
90-110	71.71	N.A.	11.60
90-120	103.33	N.A.	16.70
90-130	129.75	N.A.	21.00
90-150	165.40	N.A.	26.80
90-180	180.49	N.A.	29.20
110-180	108.78	N.A.	17.60
0-180	617.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	10.30
10-20	35.15
20-30	58.92
30-40	71.25
40-50	67.16
50-60	57.73
60-70	51.47
70-80	45.60
80-90	39.22
90-100	36.55
100-110	35.16
110-120	31.61
120-130	26.43
130-140	20.71
140-150	14.94
150-160	9.57
160-170	4.70
170-180	0.82

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 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	71	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

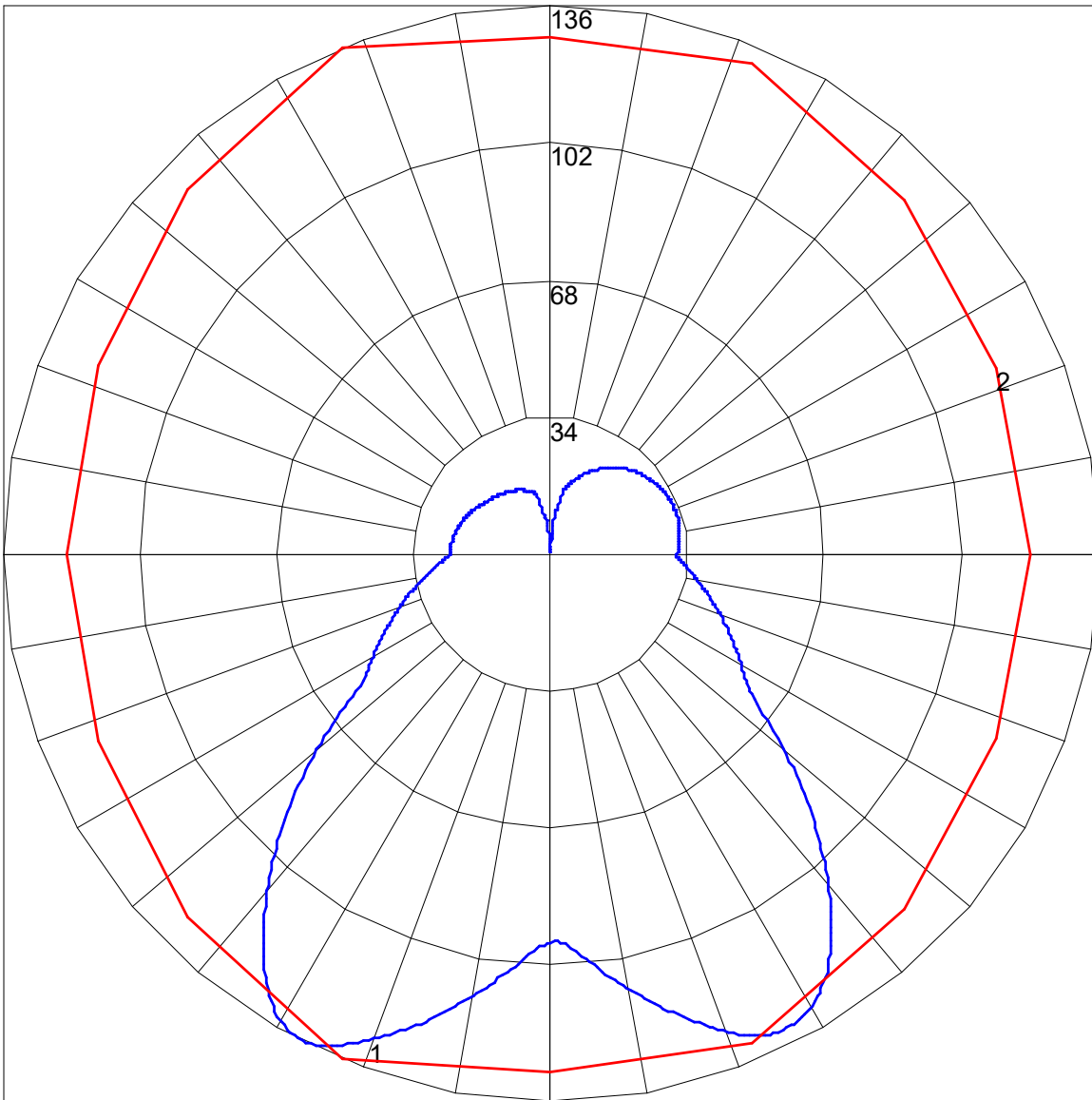
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FAB GRAY 2 LIGHT.IES**

**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	12.3	13.4	13.0	14.2	15.1	9.1	10.2	9.8	11.0	11.9
	3H	15.0	16.0	15.7	16.8	17.8	10.9	12.0	11.7	12.7	13.7
	4H	16.3	17.3	17.1	18.1	19.1	11.7	12.7	12.5	13.5	14.5
	6H	17.7	18.7	18.5	19.5	20.5	12.5	13.4	13.2	14.2	15.2
	8H	18.4	19.3	19.2	20.2	21.1	12.8	13.7	13.6	14.5	15.5
	12H	19.1	20.0	19.9	20.8	21.8	13.1	13.9	13.9	14.8	15.8
4H	2H	12.6	13.6	13.4	14.4	15.4	10.0	11.0	10.8	11.8	12.8
	3H	15.5	16.4	16.3	17.2	18.2	12.1	12.9	12.8	13.7	14.7
	4H	17.1	17.9	17.9	18.7	19.7	13.0	13.8	13.8	14.6	15.6
	6H	18.7	19.4	19.5	20.2	21.2	13.9	14.6	14.7	15.4	16.4
	8H	19.4	20.1	20.3	21.0	22.0	14.3	14.9	15.1	15.8	16.8
	12H	20.3	20.9	21.1	21.7	22.8	14.7	15.3	15.5	16.1	17.2
8H	4H	17.3	17.9	18.1	18.8	19.8	13.7	14.3	14.5	15.2	16.2
	6H	19.0	19.6	19.9	20.5	21.5	14.8	15.3	15.6	16.2	17.2
	8H	20.0	20.5	20.8	21.4	22.4	15.3	15.8	16.1	16.7	17.7
	12H	21.0	21.4	21.8	22.3	23.4	15.8	16.3	16.7	17.1	18.2
12H	4H	17.3	17.9	18.1	18.7	19.8	13.9	14.5	14.7	15.3	16.4
	6H	19.1	19.6	19.9	20.5	21.5	15.0	15.5	15.9	16.4	17.5
	8H	20.1	20.5	20.9	21.4	22.5	15.6	16.1	16.5	17.0	18.1

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 136.32 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.)