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## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN WEVE 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] Artisan Glass (FSN) - Weave Glass (WEVE) 2-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN WEVE 2-Light

[MORE] Steel formed housing and two frosted clear glass lenses with white interior.

[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	1142
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
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	3056	3270	6531
55	2577	2564	4500
65	2305	2209	3603
75	2140	1987	3431
85	2060	1870	3491

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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>	178.986	178.986	178.986	178.986	178.986	178.986	178.986	178.986	178.986
<b>0.5</b>	177.253	177.769	178.449	178.532	179.110	179.832	180.389	180.430	180.451
<b>1.0</b>	177.707	178.305	178.594	178.718	179.337	180.492	181.379	181.730	181.998
<b>1.5</b>	179.130	179.481	179.481	179.172	179.935	181.441	182.741	183.566	183.896
<b>2.0</b>	180.719	180.863	180.760	179.873	180.636	182.472	184.329	185.608	186.021
<b>2.5</b>	182.658	182.782	182.245	180.925	181.523	183.710	186.124	187.857	188.331
<b>3.0</b>	184.969	184.577	183.896	182.163	182.431	184.989	188.146	190.085	190.724
<b>3.5</b>	187.300	186.743	185.732	183.421	183.483	186.310	190.023	192.416	193.427
<b>4.0</b>	189.713	189.136	187.444	184.824	184.535	187.857	192.107	194.788	195.779
<b>4.5</b>	192.148	191.302	189.425	186.144	185.670	189.404	194.128	197.264	198.419
<b>5.0</b>	194.438	193.778	191.343	187.568	186.743	190.931	196.026	199.533	200.916
<b>5.5</b>	196.748	195.944	193.262	189.156	187.919	192.457	198.110	202.050	203.391
<b>6.0</b>	199.410	198.337	195.222	190.683	189.095	194.108	200.297	204.546	206.279
<b>6.5</b>	201.803	200.647	197.326	192.168	190.188	195.676	202.339	206.960	208.569
<b>7.0</b>	204.196	202.875	199.306	193.757	191.446	197.264	204.526	209.477	211.210
<b>7.5</b>	206.568	205.372	201.328	195.325	192.684	198.914	206.713	211.932	213.768
<b>8.0</b>	208.817	207.662	203.412	196.831	193.922	200.544	208.776	214.325	216.223
<b>8.5</b>	211.127	210.034	205.413	198.419	195.057	202.195	210.942	216.718	218.678
<b>9.0</b>	213.727	212.241	207.455	200.008	196.377	203.824	213.170	219.029	221.133
<b>9.5</b>	216.161	214.531	209.539	201.555	197.718	205.495	215.088	221.277	223.588
<b>10.0</b>	218.492	216.924	211.519	203.164	198.873	207.043	217.151	223.774	226.002
<b>10.5</b>	220.803	219.441	213.603	204.835	200.111	208.714	219.297	226.064	228.436
<b>11.0</b>	223.444	221.607	215.604	206.424	201.349	210.364	221.277	228.353	230.850
<b>11.5</b>	225.919	223.918	217.564	208.157	202.607	212.015	223.361	230.561	233.098
<b>12.0</b>	228.209	226.290	219.648	209.745	203.866	213.665	225.383	232.933	235.430
<b>12.5</b>	230.086	228.415	221.814	211.292	205.083	215.377	227.363	234.996	237.719
<b>13.0</b>	231.407	230.499	223.732	212.902	206.259	216.966	229.364	237.266	239.762
<b>13.5</b>	232.232	232.149	225.857	214.469	207.538	218.637	231.304	239.349	241.474
<b>14.0</b>	232.500	233.202	227.755	215.914	208.776	220.184	233.202	241.247	242.609
<b>14.5</b>	233.140	234.068	229.756	217.543	209.869	221.772	235.079	242.794	243.228
<b>15.0</b>	233.614	234.625	231.634	219.111	211.231	223.340	237.059	243.908	243.496
<b>15.5</b>	234.089	235.058	233.428	220.700	212.468	224.826	238.854	244.342	243.413
<b>16.0</b>	234.254	235.615	234.955	222.268	213.520	226.414	240.649	244.610	243.290
<b>16.5</b>	234.460	235.677	236.337	223.732	214.655	227.941	242.485	244.569	243.001
<b>17.0</b>	234.481	235.822	237.534	225.218	215.996	229.364	244.115	244.362	242.568
<b>17.5</b>	234.749	236.131	238.483	226.765	217.069	230.788	245.518	244.135	242.402
<b>18.0</b>	234.604	236.090	239.081	228.188	218.204	232.314	246.776	243.743	241.845
<b>18.5</b>	234.749	236.069	239.597	229.633	219.400	233.697	247.560	243.372	241.288
<b>19.0</b>	234.708	236.172	239.824	231.077	220.555	235.161	247.993	242.960	240.752
<b>19.5</b>	234.398	235.863	239.989	232.541	221.711	236.502	248.158	242.506	240.133
<b>20.0</b>	234.006	235.780	240.051	233.841	222.804	237.967	248.076	241.887	239.638
<b>20.5</b>	233.676	235.595	240.030	235.285	224.021	239.287	247.849	241.350	238.916
<b>21.0</b>	232.913	235.079	239.948	236.585	225.135	240.670	247.519	240.731	238.235
<b>21.5</b>	232.500	234.563	239.782	237.946	226.290	242.031	247.086	239.968	237.554
<b>22.0</b>	232.087	234.171	239.514	239.184	227.446	243.269	246.632	239.267	236.667
<b>22.5</b>	231.407	233.490	239.246	240.360	228.622	244.589	246.178	238.400	235.615
<b>23.0</b>	230.747	232.686	238.957	241.392	229.715	245.745	245.538	237.493	234.749
<b>23.5</b>	229.798	231.737	238.380	242.114	230.685	246.962	244.816	236.626	233.573
<b>24.0</b>	228.890	230.747	237.864	242.733	231.840	248.096	244.115	235.450	232.376
<b>24.5</b>	228.106	229.942	237.266	243.269	232.851	249.210	243.331	234.150	231.304
<b>25.0</b>	227.157	228.849	236.440	243.702	233.882	250.180	242.444	233.057	230.086
<b>25.5</b>	226.105	227.817	235.656	244.032	234.914	250.923	241.598	231.737	228.704
<b>26.0</b>	224.950	226.641	234.687	244.115	235.801	251.583	240.484	230.313	227.384
<b>26.5</b>	223.856	225.424	233.676	244.362	236.750	251.995	239.473	228.952	225.816

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27.0	222.350	224.083	232.541	244.280	237.616	252.181	238.338	227.363	224.331
27.5	221.319	222.948	231.365	244.115	238.462	252.222	236.997	225.898	222.804
28.0	219.792	221.566	229.983	243.723	239.246	252.057	235.656	224.269	221.154
28.5	218.327	219.957	228.580	243.290	240.133	251.562	234.192	222.598	219.379
29.0	216.924	218.430	227.198	242.506	241.000	250.923	232.603	220.803	217.605
29.5	215.377	216.986	225.630	241.701	241.784	250.056	230.994	219.008	215.790
30.0	213.830	215.398	223.959	240.711	242.423	248.963	229.261	217.172	213.789
30.5	211.891	213.747	222.247	239.494	243.248	247.787	227.322	215.192	211.705
31.0	210.364	212.221	220.452	238.421	243.888	246.467	225.445	213.170	209.745
31.5	208.714	210.467	218.719	237.142	244.610	245.023	223.464	211.189	207.538
32.0	206.754	208.631	216.986	235.656	245.311	243.351	221.442	209.106	205.475
32.5	204.980	206.898	214.944	234.212	245.724	241.515	219.318	206.878	203.040
33.0	203.061	204.959	213.046	232.500	246.240	239.514	217.255	204.608	200.792
33.5	200.854	203.185	211.127	230.685	246.632	237.554	215.109	202.277	198.110
34.0	199.059	201.142	209.003	228.972	246.508	235.203	212.798	200.028	195.841
34.5	197.140	199.162	207.022	226.847	246.198	232.954	210.550	197.635	193.344
35.0	194.871	197.078	204.877	224.723	245.167	230.602	208.095	195.201	190.683
35.5	192.849	195.160	202.814	222.536	243.764	228.168	205.784	192.746	188.063
36.0	190.704	192.911	200.585	220.246	241.949	225.589	203.371	190.085	185.567
36.5	188.434	190.807	198.502	217.770	239.803	223.134	200.916	187.650	182.823
37.0	186.433	188.703	196.274	215.233	237.101	220.370	198.399	185.092	180.203
37.5	184.288	186.495	193.922	212.654	233.717	217.667	195.841	182.369	177.418
38.0	182.018	184.226	191.776	210.075	229.983	214.944	193.324	179.687	174.674
38.5	179.832	181.977	189.425	207.311	226.105	212.076	190.580	176.861	172.013
39.0	177.624	179.832	187.176	204.567	222.103	209.333	187.981	174.179	169.310
39.5	175.520	177.521	184.845	201.720	218.100	206.444	185.278	171.353	166.463
40.0	173.705	175.314	182.452	198.894	214.078	203.597	182.617	168.588	163.802
40.5	171.600	173.065	180.059	196.109	210.261	200.668	179.790	165.803	161.038
41.0	169.475	170.899	177.727	193.179	206.444	197.800	177.047	163.018	158.377
41.5	167.887	168.774	175.231	190.456	202.752	194.871	174.200	160.192	155.818
42.0	166.154	166.649	172.797	187.589	199.327	191.942	171.394	157.428	153.240
42.5	164.710	164.545	170.301	184.700	195.799	188.950	168.465	154.704	150.764
43.0	163.472	162.585	167.866	181.853	192.478	186.021	165.535	152.043	148.185
43.5	162.399	160.893	165.349	178.862	189.363	182.947	162.668	149.485	146.040
44.0	161.512	159.181	162.915	175.933	186.248	179.852	159.614	146.782	143.956
44.5	160.192	157.861	160.460	173.168	183.236	176.820	156.664	144.410	141.996
45.0	159.099	156.582	157.943	170.053	180.224	173.601	153.673	142.120	140.408
45.5	158.067	155.365	155.633	167.186	177.418	170.548	150.847	140.036	138.840
46.0	156.932	154.354	153.219	164.256	174.447	167.289	147.917	138.097	137.355
46.5	155.736	153.198	150.867	161.327	171.662	164.029	145.008	136.406	135.787
47.0	154.519	151.981	148.680	158.232	168.671	160.790	141.996	134.838	134.198
47.5	153.446	150.908	146.411	155.261	165.638	157.448	139.252	133.270	132.610
48.0	152.353	149.815	144.472	152.291	162.606	154.127	136.509	131.784	130.959
48.5	151.156	148.557	142.574	149.155	159.470	150.702	133.765	130.217	129.577
49.0	150.186	147.443	140.944	146.225	156.272	147.443	131.248	128.711	128.092
49.5	149.072	146.287	139.273	143.131	152.992	144.039	128.814	127.163	126.544
50.0	147.979	145.194	137.808	140.140	149.650	140.800	126.668	125.740	125.162
50.5	146.886	144.018	136.302	137.272	146.143	137.437	124.646	124.193	123.718
51.0	145.895	142.966	135.023	134.466	142.636	134.054	122.810	122.790	122.191
51.5	144.988	141.769	133.868	131.331	139.108	130.774	121.181	121.284	120.892
52.0	143.791	140.800	132.837	128.587	135.374	127.514	119.633	119.984	119.551
52.5	142.966	139.727	131.681	125.822	131.558	124.296	118.313	118.561	118.189
53.0	141.934	138.613	130.588	122.975	127.947	121.119	116.828	117.096	116.848
53.5	141.068	137.602	129.453	120.520	124.213	118.107	115.445	116.023	115.487
54.0	140.181	136.694	128.401	117.983	120.562	115.115	114.125	114.538	114.270
54.5	139.005	135.622	127.287	115.672	117.096	112.372	112.784	113.279	113.156

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**CANDELA TABULATION - (Cont.)**

55.0	138.077	134.796	126.214	113.589	113.568	109.587	111.464	111.959	111.835
55.5	137.458	133.868	125.121	111.856	110.247	106.987	110.144	110.762	110.742
56.0	136.612	132.919	124.110	110.082	106.905	104.800	108.823	109.545	109.504
56.5	135.766	131.970	122.975	108.658	103.790	102.717	107.544	108.369	108.307
57.0	135.044	131.207	121.965	107.132	100.881	101.128	106.348	107.152	107.193
57.5	134.178	130.175	120.954	105.687	97.992	99.870	105.110	105.976	106.079
58.0	133.497	129.350	119.881	104.635	95.311	98.838	103.790	104.862	104.945
58.5	132.548	128.587	118.973	103.831	92.959	97.745	102.614	103.707	103.748
59.0	131.908	127.720	118.024	102.861	90.958	96.734	101.458	102.531	102.696
59.5	131.104	126.895	117.034	102.015	89.307	95.744	100.221	101.520	101.747
60.0	130.237	126.132	116.126	101.128	88.069	94.712	99.148	100.406	100.551
60.5	129.474	125.348	115.239	100.221	87.038	93.619	97.992	99.251	99.622
61.0	128.793	124.543	114.311	99.272	86.192	92.546	96.817	98.240	98.426
61.5	128.236	123.842	113.259	98.426	85.429	91.535	95.785	97.167	97.539
62.0	127.411	123.017	112.475	97.374	84.707	90.545	94.650	96.136	96.404
62.5	126.648	122.233	111.588	96.528	83.861	89.472	93.640	95.125	95.331
63.0	125.987	121.469	110.659	95.599	83.056	88.441	92.608	93.970	94.444
63.5	125.121	120.706	109.834	94.692	82.231	87.409	91.556	93.083	93.351
64.0	124.440	120.046	109.071	93.825	81.385	86.481	90.463	92.092	92.422
64.5	123.945	119.303	108.163	92.856	80.519	85.429	89.514	91.143	91.412
65.0	123.244	118.561	107.482	91.989	79.694	84.480	88.503	90.112	90.463
65.5	122.460	117.839	106.554	91.164	78.827	83.386	87.389	89.266	89.493
66.0	121.779	117.199	105.811	90.256	77.981	82.458	86.460	88.276	88.565
66.5	121.181	116.415	104.986	89.307	77.156	81.509	85.429	87.306	87.698
67.0	120.541	115.817	104.181	88.606	76.166	80.478	84.377	86.337	86.729
67.5	119.778	115.095	103.356	87.739	75.403	79.467	83.531	85.429	85.780
68.0	119.118	114.352	102.634	86.749	74.598	78.662	82.603	84.480	84.934
68.5	118.540	113.671	101.892	85.986	73.690	77.589	81.633	83.655	84.129
69.0	117.942	113.073	101.087	85.140	72.803	76.764	80.787	82.726	83.056
69.5	117.282	112.372	100.365	84.232	71.978	75.877	79.838	81.839	82.231
70.0	116.704	111.773	99.560	83.490	71.091	74.866	78.992	80.973	81.447
70.5	115.941	111.072	98.756	82.685	70.225	73.979	78.085	80.148	80.374
71.0	115.280	110.412	98.178	81.757	69.379	73.092	77.177	79.199	79.652
71.5	114.765	109.896	97.456	81.035	68.553	72.205	76.290	78.394	78.807
72.0	114.166	109.215	96.693	80.189	67.749	71.256	75.465	77.507	77.981
72.5	113.609	108.576	96.053	79.322	66.903	70.431	74.598	76.723	77.115
73.0	112.929	107.957	95.352	78.642	66.078	69.544	73.794	75.836	76.310
73.5	112.289	107.379	94.630	77.796	65.253	68.657	72.906	75.073	75.465
74.0	111.856	106.698	93.970	76.971	64.469	67.811	72.122	74.247	74.701
74.5	111.381	106.059	93.227	76.290	63.582	66.944	71.297	73.443	73.855
75.0	110.701	105.543	92.587	75.568	62.860	66.181	70.534	72.700	73.010
75.5	110.020	104.904	92.010	74.742	62.076	65.397	69.709	71.813	72.246
76.0	109.463	104.326	91.370	74.041	61.230	64.510	68.884	71.050	71.421
76.5	108.803	103.748	90.648	73.340	60.425	63.788	68.100	70.266	70.699
77.0	108.142	103.129	90.132	72.597	59.724	63.004	67.274	69.544	69.956
77.5	107.812	102.634	89.452	71.834	58.899	62.138	66.532	68.719	69.276
78.0	107.193	102.015	88.730	71.173	58.218	61.436	65.789	67.955	68.450
78.5	106.492	101.396	88.214	70.348	57.413	60.673	65.046	67.213	67.728
79.0	106.121	100.819	87.595	69.750	56.671	59.848	64.262	66.490	66.841
79.5	105.399	100.262	86.894	69.131	55.928	59.084	63.520	65.707	66.160
80.0	105.069	99.684	86.378	68.327	55.227	58.342	62.777	64.984	65.438
80.5	104.470	99.189	85.718	67.708	54.566	57.620	61.993	64.324	64.799
81.0	103.872	98.653	85.119	67.047	53.844	56.877	61.374	63.561	63.953
81.5	103.480	98.013	84.583	66.387	53.246	56.258	60.673	62.880	63.272
82.0	102.799	97.477	83.943	65.810	52.565	55.515	59.889	62.261	62.633
82.5	102.345	97.044	83.304	65.211	51.864	54.752	59.229	61.560	61.952

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	101.665	96.404	82.809	64.531	51.183	54.133	58.569	60.858	61.230
83.5	101.170	95.950	82.252	63.912	50.564	53.494	57.867	60.136	60.508
84.0	100.736	95.455	81.633	63.396	49.925	52.792	57.248	59.538	59.827
84.5	100.200	94.857	81.179	62.736	49.326	52.132	56.547	58.795	59.126
85.0	99.767	94.320	80.643	62.199	48.769	51.472	55.949	58.197	58.630
85.5	99.292	93.825	80.044	61.642	48.109	50.770	55.371	57.537	57.908
86.0	98.797	93.309	79.529	61.044	47.573	50.213	54.628	56.753	57.393
86.5	98.281	92.897	79.116	60.528	46.975	49.574	54.009	56.175	56.547
87.0	97.724	92.381	78.518	60.136	46.438	48.976	53.452	55.639	55.969
87.5	97.270	91.845	78.085	59.518	46.026	48.419	52.833	54.958	55.433
88.0	96.837	91.535	77.651	59.126	45.407	47.862	52.297	54.401	54.752
88.5	96.363	91.061	77.177	58.692	45.035	47.305	51.719	53.844	54.154
89.0	96.280	90.793	76.826	58.218	44.602	46.913	51.162	53.205	53.473
89.5	96.321	90.772	76.826	58.177	44.293	46.500	50.647	52.689	52.957
90.0	96.136	90.896	76.971	58.259	44.458	46.397	50.440	52.380	52.606
90.5	96.445	91.020	76.991	58.321	44.458	46.438	50.317	52.215	52.503
91.0	96.713	91.102	77.115	58.445	44.416	46.438	50.213	52.132	52.400
91.5	96.796	91.350	77.218	58.569	44.561	46.459	50.193	52.091	52.215
92.0	96.961	91.329	77.424	58.527	44.581	46.459	50.090	51.926	52.153
92.5	97.085	91.494	77.507	58.692	44.705	46.397	50.007	51.761	52.008
93.0	97.250	91.638	77.507	58.837	44.664	46.273	50.007	51.699	51.926
93.5	97.497	91.742	77.796	58.899	44.870	46.294	50.007	51.616	51.781
94.0	97.601	91.948	77.878	59.064	44.829	46.252	49.821	51.534	51.616
94.5	97.745	92.010	78.002	59.105	44.932	46.149	49.883	51.389	51.369
95.0	98.054	92.154	78.085	59.208	44.932	46.149	49.739	51.101	51.224
95.5	98.013	92.381	78.188	59.332	44.994	46.129	49.636	51.018	51.162
96.0	98.261	92.484	78.332	59.414	45.035	46.087	49.533	50.915	50.894
96.5	98.384	92.587	78.580	59.476	45.159	46.026	49.409	50.688	50.770
97.0	98.529	92.732	78.538	59.621	45.138	45.984	49.347	50.543	50.502
97.5	98.632	92.856	78.662	59.786	45.159	45.881	49.285	50.502	50.399
98.0	98.859	92.876	78.807	59.765	45.324	45.922	49.099	50.296	50.234
98.5	98.880	93.062	78.910	59.951	45.345	45.799	49.038	50.152	50.028
99.0	99.003	93.186	78.910	60.116	45.407	45.675	48.996	49.986	49.863
99.5	99.148	93.227	79.054	60.054	45.448	45.675	48.769	49.821	49.574
100.0	99.189	93.330	79.116	60.178	45.551	45.592	48.728	49.677	49.450
100.5	99.354	93.351	79.137	60.281	45.572	45.530	48.666	49.471	49.244
101.0	99.333	93.413	79.219	60.405	45.675	45.448	48.542	49.244	49.038
101.5	99.560	93.454	79.302	60.446	45.716	45.303	48.398	49.120	48.749
102.0	99.478	93.516	79.281	60.549	45.881	45.262	48.254	48.893	48.666
102.5	99.540	93.516	79.302	60.570	45.881	45.200	48.068	48.687	48.460
103.0	99.560	93.578	79.343	60.652	46.005	45.035	47.903	48.522	48.274
103.5	99.560	93.598	79.302	60.776	45.964	44.973	47.779	48.398	47.903
104.0	99.725	93.619	79.219	60.652	46.005	44.870	47.593	48.192	47.820
104.5	99.767	93.701	79.240	60.776	46.046	44.746	47.346	47.944	47.490
105.0	99.581	93.722	79.199	60.838	46.170	44.623	47.119	47.800	47.263
105.5	99.684	93.598	79.178	60.714	46.211	44.520	46.892	47.532	46.995
106.0	99.767	93.619	79.240	60.755	46.149	44.437	46.665	47.243	46.830
106.5	99.725	93.660	79.199	60.755	46.211	44.334	46.459	47.036	46.562
107.0	99.787	93.660	79.137	60.735	46.149	44.251	46.211	46.727	46.356
107.5	99.725	93.598	79.116	60.714	46.149	44.128	46.005	46.479	46.005
108.0	99.725	93.578	79.075	60.817	46.211	43.880	45.778	46.067	45.654
108.5	99.767	93.557	79.116	60.714	46.129	43.839	45.572	45.819	45.283
109.0	99.581	93.536	79.013	60.714	46.170	43.612	45.345	45.469	45.056
109.5	99.643	93.392	78.910	60.632	46.067	43.550	45.118	45.200	44.540
110.0	99.540	93.413	78.848	60.632	46.129	43.447	44.891	44.788	44.375
110.5	99.560	93.248	78.848	60.611	46.046	43.323	44.602	44.581	43.859

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

111.0	99.437	93.268	78.765	60.673	46.067	43.199	44.416	44.231	43.488
111.5	99.375	93.206	78.765	60.590	45.964	43.096	44.086	43.942	43.302
112.0	99.127	93.165	78.683	60.570	45.943	42.890	43.880	43.571	42.849
112.5	99.189	93.083	78.518	60.508	45.984	42.828	43.694	43.282	42.436
113.0	99.148	92.959	78.518	60.446	45.964	42.642	43.467	42.972	42.065
113.5	99.024	92.856	78.415	60.363	45.902	42.560	43.137	42.539	41.776
114.0	98.859	92.794	78.270	60.363	45.881	42.457	42.931	42.312	41.446
114.5	98.900	92.670	78.208	60.260	45.860	42.250	42.725	41.838	41.033
115.0	98.653	92.526	78.023	60.178	45.757	42.126	42.291	41.384	40.559
115.5	98.570	92.546	77.940	60.116	45.778	41.961	42.188	40.971	40.187
116.0	98.364	92.257	77.775	59.971	45.613	41.941	41.838	40.414	39.754
116.5	98.384	92.175	77.672	59.951	45.675	41.693	41.487	39.981	39.321
117.0	98.116	92.030	77.507	59.848	45.572	41.611	41.343	39.589	38.578
117.5	97.889	91.824	77.445	59.744	45.469	41.466	41.116	39.032	38.186
118.0	97.766	91.680	77.197	59.579	45.386	41.281	40.786	38.619	37.526
118.5	97.580	91.597	77.074	59.497	45.262	41.136	40.497	38.165	37.051
119.0	97.332	91.329	76.929	59.456	45.200	41.012	40.332	37.691	36.474
119.5	97.126	91.205	76.785	59.353	45.200	40.889	39.960	37.155	35.855
120.0	96.940	91.081	76.661	59.187	45.056	40.744	39.795	36.598	35.298
120.5	96.796	90.751	76.496	58.981	44.953	40.538	39.486	36.102	34.762
121.0	96.590	90.607	76.248	58.981	44.788	40.394	39.156	35.649	34.205
121.5	96.218	90.463	76.042	58.878	44.788	40.187	39.011	35.195	33.627
122.0	96.053	90.153	75.898	58.630	44.726	40.022	38.723	34.679	33.029
122.5	95.764	89.947	75.753	58.486	44.561	39.960	38.454	34.246	32.534
123.0	95.538	89.761	75.485	58.424	44.458	39.713	38.227	33.771	31.976
123.5	95.228	89.369	75.258	58.156	44.375	39.589	38.000	33.359	31.296
124.0	95.187	89.080	75.114	58.073	44.334	39.465	37.629	32.864	30.842
124.5	94.671	88.874	74.887	57.929	44.169	39.259	37.443	32.451	30.347
125.0	94.320	88.544	74.681	57.764	44.024	39.218	37.258	31.997	29.831
125.5	93.970	88.276	74.371	57.537	43.921	39.032	37.031	31.605	29.439
126.0	93.557	87.904	74.144	57.413	43.880	38.949	36.886	31.254	29.006
126.5	93.392	87.554	73.876	57.207	43.777	38.846	36.618	30.842	28.573
127.0	92.773	87.286	73.649	57.104	43.715	38.743	36.309	30.512	28.139
127.5	92.361	86.873	73.340	56.918	43.632	38.578	36.144	30.223	27.809
128.0	92.072	86.502	73.071	56.691	43.488	38.537	35.958	29.769	27.438
128.5	91.618	86.089	72.783	56.567	43.488	38.496	35.690	29.398	27.087
129.0	91.164	85.862	72.535	56.341	43.302	38.310	35.484	28.985	26.736
129.5	90.855	85.408	72.184	56.196	43.220	38.186	35.339	28.634	26.510
130.0	90.256	85.119	71.896	55.907	43.137	37.959	34.968	28.304	26.179
130.5	89.906	84.707	71.565	55.763	43.137	37.897	34.823	27.995	25.746
131.0	89.493	84.294	71.256	55.639	42.931	37.774	34.617	27.706	25.561
131.5	89.142	83.943	70.988	55.371	42.849	37.691	34.370	27.314	25.375
132.0	88.544	83.531	70.596	55.309	42.787	37.608	34.163	27.025	25.024
132.5	88.008	82.994	70.307	55.000	42.663	37.485	34.019	26.716	24.715
133.0	87.636	82.603	69.977	54.752	42.477	37.361	33.771	26.448	24.653
133.5	87.079	82.190	69.626	54.587	42.457	37.258	33.586	26.241	24.343
134.0	86.625	81.695	69.296	54.339	42.271	37.217	33.359	25.953	24.240
134.5	86.192	81.241	68.945	54.071	42.250	37.093	33.214	25.643	23.972
135.0	85.676	80.808	68.512	53.824	42.085	36.928	33.008	25.457	23.766
135.5	85.181	80.251	68.244	53.617	41.961	36.948	32.802	25.230	23.559
136.0	84.624	79.962	67.831	53.370	41.817	36.721	32.554	24.859	23.291
136.5	84.109	79.487	67.481	53.205	41.714	36.618	32.327	24.694	23.023
137.0	83.531	78.930	67.109	52.895	41.611	36.494	32.245	24.447	22.734
137.5	82.953	78.456	66.738	52.668	41.404	36.391	31.935	24.158	22.631
138.0	82.334	77.961	66.346	52.462	41.363	36.206	31.832	24.034	22.569
138.5	81.860	77.424	66.016	52.194	41.239	36.206	31.750	23.828	22.301

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

139.0	81.241	76.991	65.583	51.884	41.012	36.144	31.461	23.539	22.136
139.5	80.705	76.434	65.170	51.637	40.909	35.999	31.316	23.374	21.930
140.0	80.292	75.939	64.613	51.431	40.847	35.958	31.172	23.147	21.723
140.5	79.714	75.341	64.324	51.039	40.600	35.772	30.904	22.982	21.538
141.0	79.137	74.949	63.870	50.894	40.517	35.628	30.821	22.693	21.290
141.5	78.642	74.289	63.499	50.564	40.352	35.607	30.615	22.487	21.084
142.0	78.043	73.794	63.025	50.234	40.146	35.484	30.450	22.239	20.836
142.5	77.321	73.278	62.633	49.986	40.022	35.339	30.347	22.136	20.589
143.0	76.744	72.679	62.179	49.656	39.878	35.298	30.202	21.806	20.527
143.5	76.125	72.081	61.684	49.326	39.713	35.112	29.955	21.620	20.341
144.0	75.547	71.524	61.250	49.079	39.486	34.968	29.913	21.455	20.217
144.5	74.928	70.947	60.817	48.811	39.341	35.009	29.872	21.331	20.073
145.0	74.268	70.451	60.425	48.398	39.156	34.844	29.645	21.063	19.970
145.5	73.670	69.874	59.971	48.171	39.032	34.700	29.501	20.960	19.949
146.0	72.989	69.255	59.476	47.862	38.826	34.535	29.439	20.816	20.073
146.5	72.391	68.615	58.961	47.532	38.599	34.473	29.253	20.506	20.052
147.0	71.792	68.058	58.569	47.201	38.392	34.349	29.274	20.362	19.990
147.5	71.173	67.357	58.094	46.871	38.331	34.246	29.088	20.238	20.052
148.0	70.431	66.779	57.578	46.562	38.062	34.101	28.965	20.073	20.094
148.5	69.729	66.222	57.145	46.211	37.959	33.978	28.861	19.887	20.135
149.0	68.987	65.665	56.629	45.922	37.712	33.895	28.820	19.702	20.238
149.5	68.471	65.026	56.134	45.510	37.485	33.833	28.696	19.619	20.341
150.0	67.770	64.324	55.639	45.221	37.237	33.627	28.593	19.475	20.321
150.5	67.089	63.788	55.123	44.891	37.113	33.586	28.531	19.392	20.444
151.0	66.429	63.045	54.669	44.478	36.886	33.421	28.408	19.372	20.589
151.5	65.830	62.447	54.195	44.189	36.680	33.338	28.304	19.207	20.506
152.0	64.964	61.890	53.638	43.901	36.494	33.173	28.222	19.021	20.465
152.5	64.262	61.168	53.184	43.467	36.247	33.091	28.057	19.000	20.547
153.0	63.726	60.487	52.565	43.034	36.082	32.987	28.077	18.918	20.527
153.5	62.901	59.889	52.132	42.704	35.834	32.822	28.036	18.897	20.609
154.0	62.199	59.229	51.575	42.374	35.628	32.678	27.871	18.856	20.547
154.5	61.436	58.527	50.997	41.961	35.442	32.534	27.871	18.856	20.506
155.0	60.673	57.805	50.502	41.569	35.257	32.368	27.747	18.835	20.506
155.5	59.992	57.104	49.986	41.157	35.009	32.245	27.582	18.876	20.630
156.0	59.332	56.485	49.429	40.868	34.762	32.162	27.582	18.897	20.630
156.5	58.424	55.804	48.831	40.414	34.617	31.976	27.582	18.815	20.754
157.0	57.867	55.165	48.357	39.981	34.287	31.853	27.459	18.650	20.713
157.5	57.063	54.463	47.758	39.589	34.019	31.646	27.417	18.567	20.609
158.0	56.341	53.700	47.284	39.259	33.833	31.543	27.397	18.423	20.609
158.5	55.701	53.102	46.789	38.805	33.524	31.378	27.293	18.154	20.589
159.0	54.896	52.441	46.149	38.392	33.276	31.151	27.252	18.051	20.609
159.5	54.154	51.699	45.613	38.042	33.029	31.089	27.211	17.804	20.630
160.0	53.390	50.956	45.035	37.526	32.760	30.862	27.067	17.783	20.609
160.5	52.710	50.275	44.499	37.134	32.534	30.780	26.943	17.680	20.589
161.0	51.905	49.533	43.880	36.763	32.307	30.574	26.819	17.639	20.754
161.5	51.039	48.831	43.364	36.226	31.997	30.409	26.633	17.391	20.836
162.0	50.234	48.130	42.663	35.772	31.750	30.202	26.448	17.226	20.939
162.5	49.471	47.408	42.126	35.422	31.605	30.058	26.159	17.040	20.939
163.0	48.707	46.644	41.549	34.947	31.213	29.852	25.519	16.917	20.981
163.5	47.882	45.964	40.909	34.535	31.048	29.645	24.839	16.607	21.104
164.0	47.201	45.200	40.352	34.143	30.801	29.583	23.993	16.091	21.043
164.5	46.356	44.416	39.754	33.586	30.491	29.336	22.941	15.638	20.651
165.0	45.551	43.632	39.156	33.152	30.202	28.944	21.971	15.411	20.032
165.5	44.685	42.931	38.537	32.657	29.934	28.490	20.939	15.307	19.207
166.0	43.942	42.168	37.897	32.265	29.583	27.768	19.702	15.225	18.258
166.5	43.055	41.363	37.175	31.832	29.191	26.778	18.670	15.019	16.917

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	42.147	40.600	36.598	31.419	28.573	25.726	17.845	14.915	15.328
<b>167.5</b>	41.343	39.837	35.999	30.904	27.685	24.467	17.020	14.482	13.946
<b>168.0</b>	40.414	38.929	35.174	30.512	26.448	23.106	16.504	14.193	12.295
<b>168.5</b>	39.568	38.124	34.555	30.017	25.354	21.827	16.174	13.843	10.769
<b>169.0</b>	38.702	37.382	33.978	29.274	23.869	20.465	15.803	13.162	8.953
<b>169.5</b>	37.794	36.598	33.214	28.366	22.549	19.145	15.658	12.419	7.014
<b>170.0</b>	36.845	35.752	32.451	27.149	21.063	18.134	15.369	11.346	5.219
<b>170.5</b>	35.937	34.679	31.646	25.891	19.805	17.474	14.957	10.026	3.775
<b>171.0</b>	35.009	33.689	30.471	24.570	18.753	16.813	14.627	8.871	2.311
<b>171.5</b>	34.163	32.843	29.460	23.188	18.031	16.442	14.049	7.881	1.527
<b>172.0</b>	33.173	31.894	28.469	21.868	17.391	16.174	13.059	6.705	1.362
<b>172.5</b>	32.327	30.594	27.087	20.898	16.834	15.699	11.904	5.549	1.341
<b>173.0</b>	30.842	29.418	25.767	19.990	16.360	15.163	10.728	4.435	1.279
<b>173.5</b>	29.068	28.077	24.282	18.918	15.761	14.070	9.180	3.755	1.093
<b>174.0</b>	28.119	26.345	22.569	18.051	15.266	12.481	7.592	3.466	0.949
<b>174.5</b>	26.571	24.673	21.022	17.061	14.338	10.893	6.065	3.115	0.805
<b>175.0</b>	24.715	22.879	19.537	15.823	12.997	9.077	4.848	2.847	0.619
<b>175.5</b>	22.301	20.795	17.783	14.565	11.346	7.097	4.147	2.352	0.454
<b>176.0</b>	19.887	18.484	16.050	13.059	9.593	5.384	3.672	1.960	0.598
<b>176.5</b>	17.288	15.885	14.008	10.934	7.551	4.147	3.136	1.382	0.474
<b>177.0</b>	14.255	13.244	11.718	8.768	5.715	3.486	2.641	0.908	0.392
<b>177.5</b>	11.120	10.274	9.552	6.829	4.209	3.074	2.228	0.598	0.392
<b>178.0</b>	7.778	7.200	7.282	4.642	3.094	2.558	1.754	0.495	0.660
<b>178.5</b>	4.951	4.600	4.807	2.950	2.496	2.104	1.320	0.536	0.454
<b>179.0</b>	2.909	2.764	2.579	1.836	1.939	1.671	1.031	0.495	0.516
<b>179.5</b>	1.031	1.568	0.990	0.990	1.341	1.341	0.640	0.516	0.722
<b>180.0</b>	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743	0.743



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSN WEVE 2 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	84.09	N.A.	7.40
0-30	193.11	N.A.	16.90
0-40	324.95	N.A.	28.50
0-60	556.03	N.A.	48.70
0-80	735.63	N.A.	64.40
0-90	808.20	N.A.	70.80
10-90	789.15	N.A.	69.10
20-40	240.85	N.A.	21.10
20-50	365.12	N.A.	32.00
40-70	326.30	N.A.	28.60
60-80	179.60	N.A.	15.70
70-80	84.38	N.A.	7.40
80-90	72.57	N.A.	6.40
90-110	132.68	N.A.	11.60
90-120	191.18	N.A.	16.70
90-130	240.07	N.A.	21.00
90-150	306.03	N.A.	26.80
90-180	333.95	N.A.	29.20
110-180	201.27	N.A.	17.60
0-180	1142.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	19.05
10-20	65.04
20-30	109.02
30-40	131.83
40-50	124.26
50-60	106.82
60-70	95.22
70-80	84.38
80-90	72.57
90-100	67.62
100-110	65.06
110-120	58.49
120-130	48.89
130-140	38.32
140-150	27.65
150-160	17.70
160-170	8.70
170-180	1.51

**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	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	38	33	28	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	31	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 : FSN WEVE 2 LIGHT.IES**

**UGR TABLE - CORRECTED**

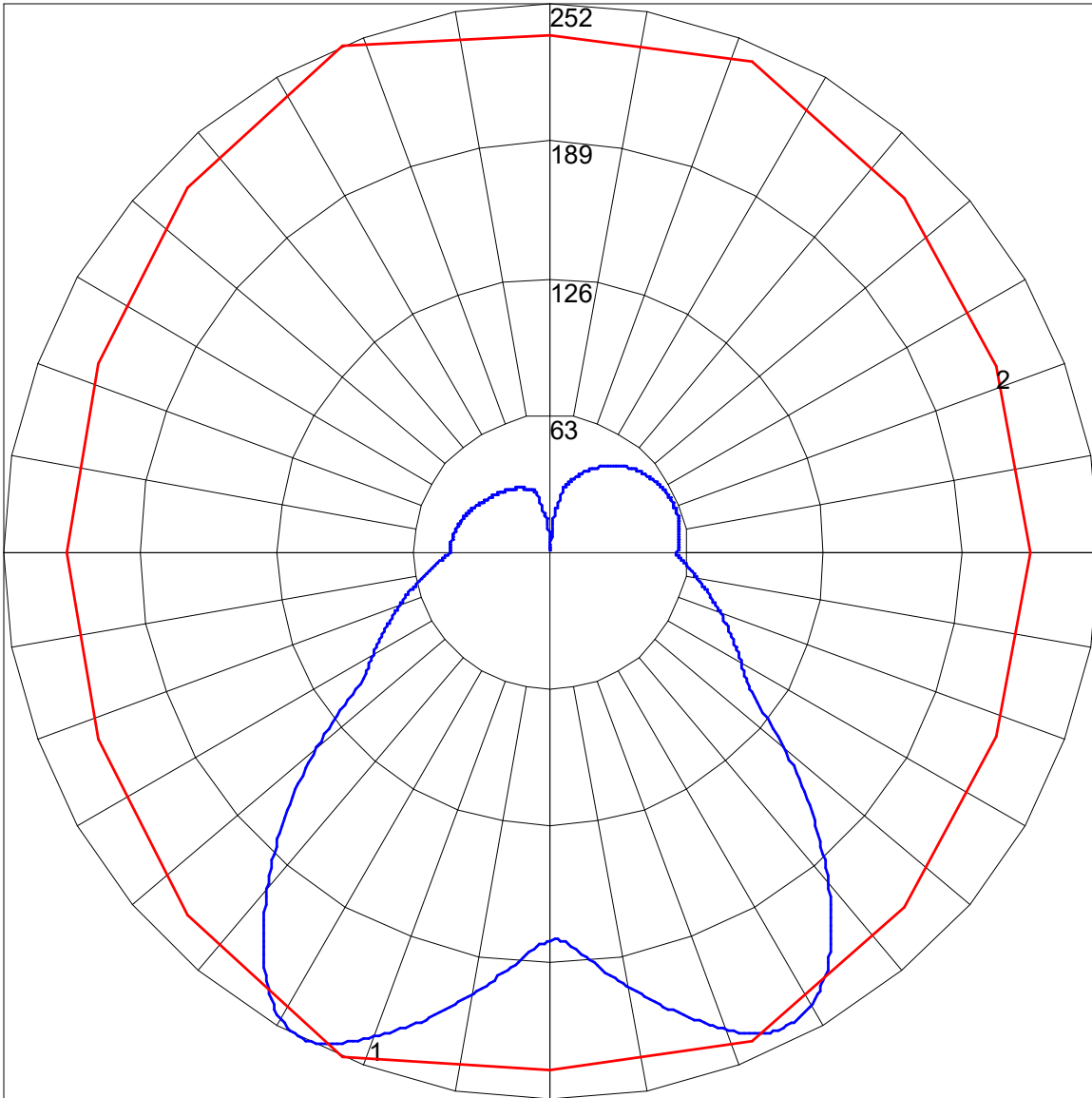
Reflectances

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	13.0	14.2	13.8	15.0	15.9	11.3	12.4	12.0	13.2	14.1
	3H	15.3	16.4	16.1	17.2	18.1	13.1	14.2	13.9	14.9	15.9
	4H	16.5	17.5	17.2	18.3	19.2	13.9	14.9	14.7	15.7	16.7
	6H	17.5	18.5	18.3	19.3	20.3	14.7	15.6	15.4	16.4	17.4
	8H	18.1	19.0	18.9	19.8	20.8	15.0	15.9	15.8	16.7	17.7
	12H	18.6	19.4	19.4	20.2	21.3	15.3	16.1	16.1	17.0	18.0
4H	2H	13.7	14.7	14.4	15.5	16.4	12.2	13.2	13.0	14.0	15.0
	3H	16.2	17.1	17.0	17.9	18.9	14.3	15.1	15.0	15.9	16.9
	4H	17.5	18.3	18.3	19.1	20.1	15.2	16.0	16.0	16.8	17.8
	6H	18.8	19.5	19.6	20.3	21.3	16.1	16.8	16.9	17.6	18.6
	8H	19.4	20.0	20.2	20.9	21.9	16.5	17.1	17.3	18.0	19.0
	12H	20.0	20.6	20.8	21.5	22.5	16.9	17.5	17.7	18.3	19.4
8H	4H	17.9	18.6	18.7	19.4	20.4	15.9	16.5	16.7	17.4	18.4
	6H	19.4	20.0	20.2	20.8	21.9	17.0	17.5	17.8	18.4	19.4
	8H	20.2	20.7	21.0	21.5	22.6	17.5	18.0	18.3	18.9	19.9
	12H	20.9	21.4	21.8	22.3	23.4	18.0	18.5	18.9	19.3	20.4
12H	4H	18.0	18.6	18.8	19.4	20.5	16.0	16.7	16.9	17.5	18.6
	6H	19.5	20.0	20.4	20.9	22.0	17.2	17.7	18.1	18.6	19.7
	8H	20.4	20.8	21.2	21.7	22.8	17.8	18.3	18.7	19.2	20.3

Maximum UGR = 23.4

POLAR GRAPH



Maximum Candela = 252.222 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.)