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## IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN MROR 6 LIGHT.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18097-2

[TESTLAB] LightLab International ([www.LightLabInternational.com](http://www.LightLabInternational.com))

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

[LUMCAT] Artisan Glass (FSN) - Mercury Glass (MROR) 6-Light Bath Bar

[LUMINAIRE] Justice Design Group - Wall mount bathroom luminaire. Product ID: FSN MROR 6-Light

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

[MORE] 60 LEDs mounted in six circular arrays with white plastic dome lenses.

[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: Thursday, April 19, 2018 8:36:38 AM

[ISSUEDATE] Thursday, April 19, 2018 8:36:38 AM

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2576
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	45
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.54
Spacing Criterion (90-270)	1.72
Spacing Criterion (Diagonal)	1.54
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 m
Luminous Width (90-270)	0.99 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	2290	2675	6160
55	1924	2090	4150
65	1725	1826	3034
75	1619	1701	2433
85	1573	1672	1862

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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>	421.925	421.925	421.925	421.925	421.925	421.925	421.925	421.925	421.925
<b>0.5</b>	422.144	418.220	418.907	421.668	422.315	423.095	425.732	425.162	425.084
<b>1.0</b>	421.465	417.659	418.330	421.411	422.760	424.546	428.368	428.657	428.727
<b>1.5</b>	422.066	417.994	418.478	421.676	423.470	426.387	431.527	432.705	433.103
<b>2.0</b>	423.719	419.531	419.344	422.175	424.476	428.462	435.037	437.213	437.908
<b>2.5</b>	426.410	421.691	420.833	423.228	425.771	431.106	438.937	442.057	443.063
<b>3.0</b>	429.702	424.663	423.064	424.382	427.206	433.649	443.110	447.065	448.523
<b>3.5</b>	433.610	428.236	425.841	426.223	428.836	436.628	447.385	452.283	454.100
<b>4.0</b>	437.986	432.331	428.844	428.236	430.677	439.631	451.776	457.626	459.693
<b>4.5</b>	442.798	436.519	432.284	430.661	432.736	442.790	456.277	463.016	465.286
<b>5.0</b>	447.697	441.191	436.028	433.111	434.920	446.176	460.808	468.187	471.034
<b>5.5</b>	452.946	446.215	439.990	435.919	437.167	449.576	465.481	473.780	476.619
<b>6.0</b>	458.250	451.043	444.155	438.844	439.577	453.016	470.356	479.318	482.422
<b>6.5</b>	463.562	456.027	448.484	441.917	442.112	456.550	475.012	484.934	488.249
<b>7.0</b>	469.147	461.253	452.813	445.240	444.717	460.262	479.926	490.425	494.013
<b>7.5</b>	474.607	466.463	457.236	448.422	447.408	463.827	484.747	495.971	499.723
<b>8.0</b>	479.833	471.627	461.854	451.870	450.099	467.719	489.684	501.563	505.385
<b>8.5</b>	485.527	476.713	466.362	455.231	452.813	471.401	494.528	506.867	511.025
<b>9.0</b>	490.870	482.048	470.956	458.788	455.567	475.028	499.372	512.296	516.781
<b>9.5</b>	496.330	487.087	475.433	462.236	458.305	478.772	504.075	517.577	522.109
<b>10.0</b>	501.938	492.500	480.152	465.824	461.128	482.633	508.950	522.943	527.506
<b>10.5</b>	507.328	497.663	484.653	469.552	463.944	486.314	513.552	528.224	532.982
<b>11.0</b>	512.928	502.944	489.193	473.070	466.900	490.058	518.248	533.333	537.888
<b>11.5</b>	518.349	508.186	493.919	476.791	469.654	493.958	522.928	538.216	542.919
<b>12.0</b>	523.193	513.287	498.545	480.449	472.485	497.749	527.537	542.903	547.591
<b>12.5</b>	527.764	518.248	503.201	484.123	475.379	501.509	532.178	547.591	552.006
<b>13.0</b>	531.367	522.787	507.702	487.828	478.296	505.073	536.827	551.897	556.366
<b>13.5</b>	534.620	526.867	512.366	491.618	481.081	508.872	541.203	556.124	560.188
<b>14.0</b>	537.163	530.143	516.750	495.082	483.818	512.538	545.384	560.095	563.199
<b>14.5</b>	539.284	533.177	521.344	498.810	486.775	516.118	549.557	563.495	565.601
<b>15.0</b>	541.414	535.571	525.720	502.562	489.645	519.815	553.660	566.381	567.005
<b>15.5</b>	542.919	537.584	529.940	506.017	492.430	523.286	557.466	568.503	567.528
<b>16.0</b>	543.871	539.198	533.887	509.668	495.394	526.859	561.265	569.720	567.489
<b>16.5</b>	544.471	540.665	537.451	513.209	498.139	530.314	564.899	570.211	566.982
<b>17.0</b>	544.939	541.554	540.579	516.883	501.095	533.840	568.136	570.359	566.179
<b>17.5</b>	545.204	542.194	543.106	520.330	503.864	537.241	571.132	569.806	565.149
<b>18.0</b>	545.204	542.568	545.345	523.965	506.813	540.540	573.752	569.150	563.956
<b>18.5</b>	544.939	542.662	547.092	527.218	509.597	543.777	575.921	568.105	562.723
<b>19.0</b>	544.495	542.584	548.566	530.767	512.460	547.186	577.660	566.935	561.233
<b>19.5</b>	543.832	542.201	549.666	534.113	515.221	550.220	578.729	565.562	559.845
<b>20.0</b>	542.825	541.726	550.438	537.311	517.990	553.371	579.415	564.112	558.347
<b>20.5</b>	541.648	540.844	551.179	540.696	520.954	556.655	579.306	562.497	556.577
<b>21.0</b>	540.345	539.854	551.234	543.925	523.466	559.650	579.103	560.750	554.931
<b>21.5</b>	538.801	538.637	551.156	547.076	526.305	562.567	578.425	559.049	553.020
<b>22.0</b>	537.139	537.217	550.688	550.282	528.879	565.414	577.333	557.123	551.031
<b>22.5</b>	535.400	535.478	550.025	553.168	531.617	567.980	575.944	555.040	549.190
<b>23.0</b>	533.278	533.637	549.323	556.031	534.136	570.313	574.571	553.098	547.186
<b>23.5</b>	531.172	531.640	548.215	558.714	536.718	572.637	572.707	550.727	544.814
<b>24.0</b>	529.051	529.417	546.772	561.031	539.152	574.595	570.796	548.231	542.334
<b>24.5</b>	526.344	526.890	545.415	562.809	541.499	576.272	568.659	545.852	540.017
<b>25.0</b>	523.793	524.300	543.426	564.517	543.902	577.762	566.264	543.059	537.397
<b>25.5</b>	521.149	521.485	541.468	565.430	546.179	578.705	563.753	540.485	534.745
<b>26.0</b>	518.271	518.567	539.175	566.108	548.543	579.587	561.101	537.420	531.710
<b>26.5</b>	515.362	515.424	536.656	566.280	550.641	580.211	558.277	534.331	528.645

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27.0	512.359	512.210	533.887	566.288	552.770	580.406	555.227	531.040	525.338
27.5	509.270	509.153	531.086	565.804	554.775	580.367	552.185	527.951	522.031
28.0	505.908	505.822	527.959	564.915	556.889	579.813	548.660	524.324	518.333
28.5	502.406	502.304	524.527	563.683	558.769	578.900	545.204	520.650	514.355
29.0	498.997	498.755	521.017	562.177	560.687	577.473	541.570	516.875	510.393
29.5	495.144	495.121	517.257	560.110	562.575	575.570	537.802	512.850	506.220
30.0	491.291	491.384	513.419	557.684	564.166	573.175	533.848	508.716	501.914
30.5	487.375	487.508	509.301	554.814	565.703	570.242	529.698	504.465	497.406
31.0	483.272	483.584	505.128	551.811	566.904	566.904	525.595	499.933	492.804
31.5	479.076	479.474	500.752	548.301	567.606	563.152	521.048	495.347	488.015
32.0	474.802	475.426	496.275	544.651	567.879	559.432	516.672	490.721	483.109
32.5	470.090	471.089	491.829	540.595	567.817	555.095	512.000	485.722	477.805
33.0	465.395	466.635	487.118	536.219	567.099	550.540	507.187	480.652	472.672
33.5	460.863	462.095	482.508	531.710	565.882	545.665	502.367	475.691	467.337
34.0	455.910	457.486	477.711	526.812	564.174	540.751	497.344	470.231	461.900
34.5	451.019	452.790	472.859	521.812	561.857	535.454	492.180	464.880	456.503
35.0	445.973	447.798	467.922	516.485	558.605	529.948	486.798	459.436	450.941
35.5	440.903	442.923	462.953	511.111	554.307	524.605	481.572	453.866	445.302
36.0	435.747	437.798	457.821	505.261	549.026	518.801	475.933	448.079	439.530
36.5	430.810	432.884	452.852	499.723	543.465	513.178	470.434	442.619	433.984
37.0	425.638	427.729	447.509	493.584	537.280	507.242	464.662	436.691	427.947
37.5	420.124	422.448	442.354	487.500	530.517	501.228	458.843	430.732	422.206
38.0	414.968	417.183	436.933	481.307	523.435	495.284	452.907	424.928	416.450
38.5	409.828	411.926	431.504	474.926	516.305	488.982	446.854	418.837	410.545
39.0	404.914	406.622	426.020	468.616	508.654	482.797	440.614	412.776	404.773
39.5	399.758	401.240	420.451	462.072	500.674	476.401	434.452	406.981	399.204
40.0	394.664	396.053	414.859	455.536	492.625	469.997	428.275	401.021	393.557
40.5	390.000	390.897	409.219	448.921	484.185	463.437	421.762	395.117	388.159
41.0	385.523	385.866	403.658	442.424	476.159	456.955	415.475	389.290	383.019
41.5	381.256	380.749	397.722	435.575	467.516	450.138	408.954	383.549	377.590
42.0	377.224	375.859	391.895	428.696	459.256	443.297	402.301	377.980	372.489
42.5	373.347	371.186	386.170	421.996	450.692	436.543	395.717	372.434	367.513
43.0	369.954	366.592	380.250	415.069	442.127	429.413	389.197	366.982	362.458
43.5	366.881	362.513	374.361	408.096	433.891	422.479	382.520	361.865	357.965
44.0	363.776	358.566	368.456	401.092	425.482	415.272	375.937	356.756	353.831
44.5	360.859	355.009	362.630	394.040	417.331	408.166	369.400	351.827	350.189
45.0	357.981	351.819	356.811	386.896	409.087	400.741	362.872	347.186	346.546
45.5	355.220	348.761	351.062	380.016	401.263	393.705	356.491	343.060	343.075
46.0	352.349	345.969	345.376	372.887	392.980	386.201	350.064	339.074	339.877
46.5	349.697	343.036	339.807	365.625	384.790	378.635	343.855	335.416	336.453
47.0	347.061	340.088	334.550	358.480	376.607	371.155	337.888	331.929	333.302
47.5	344.331	337.451	329.238	351.156	368.254	363.449	331.984	328.669	329.917
48.0	341.562	334.721	324.472	343.957	359.876	355.820	326.492	325.393	326.804
48.5	339.160	332.210	319.855	336.586	351.351	348.231	321.165	322.257	323.497
49.0	336.656	329.597	315.689	329.433	342.592	340.673	316.282	318.997	320.463
49.5	333.957	327.101	311.867	322.226	333.871	332.904	311.587	315.869	317.195
50.0	331.516	324.691	308.428	315.237	325.081	325.494	307.437	312.640	314.293
50.5	329.051	322.140	305.214	308.092	316.126	317.920	303.365	309.566	311.111
51.0	326.750	319.667	302.172	301.018	306.961	310.573	299.621	306.556	308.381
51.5	324.402	317.351	299.192	294.193	297.929	302.991	296.213	303.521	305.401
52.0	322.156	315.112	296.174	287.282	288.772	295.760	293.030	300.721	302.390
52.5	319.870	312.679	293.459	280.761	279.513	288.935	289.903	297.632	299.645
53.0	317.780	310.541	290.768	274.217	270.535	282.025	286.907	294.848	296.704
53.5	315.783	308.295	288.163	268.047	261.487	275.496	283.889	291.884	294.021
54.0	313.646	306.127	285.527	262.275	252.502	269.217	280.894	288.974	291.143
54.5	311.727	304.247	283.156	257.104	244.093	263.531	278.132	286.424	288.389

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**CANDELA TABULATION - (Cont.)**

55.0	309.637	302.227	280.699	252.127	235.396	258.281	275.309	283.475	285.792
55.5	307.687	300.362	278.179	247.876	226.933	253.633	272.392	280.660	282.914
56.0	305.807	298.381	275.730	243.836	219.118	249.093	269.669	278.008	280.285
56.5	304.067	296.556	273.429	240.146	211.130	245.177	266.900	275.223	277.571
57.0	302.188	294.824	271.050	236.894	203.759	241.519	264.233	272.548	274.895
57.5	300.487	292.913	268.788	233.797	197.051	237.994	261.448	269.935	272.111
58.0	298.678	291.463	266.464	230.981	190.655	234.725	258.757	267.368	269.654
58.5	296.806	289.715	264.334	228.173	184.844	231.925	256.168	264.560	266.947
59.0	295.456	288.148	262.330	225.841	179.821	229.133	253.438	261.955	264.514
59.5	293.693	286.603	260.060	223.454	175.133	226.512	250.934	259.412	261.901
60.0	291.993	285.004	258.055	220.974	170.765	223.868	248.251	256.799	259.327
60.5	290.378	283.522	256.090	218.525	166.811	221.442	245.716	254.241	256.698
61.0	288.990	282.071	254.015	216.068	163.106	218.985	243.181	251.628	254.054
61.5	287.297	280.667	252.127	213.619	159.627	216.629	240.513	248.999	251.519
62.0	285.683	279.232	250.138	211.130	156.242	214.165	238.048	246.457	248.984
62.5	284.216	277.820	248.321	208.681	152.981	211.809	235.427	243.976	246.496
63.0	282.836	276.487	246.441	206.318	149.776	209.500	232.900	241.402	244.000
63.5	281.299	275.122	244.694	204.087	146.726	207.238	230.459	238.976	241.621
64.0	279.934	273.920	243.017	201.747	143.614	205.109	227.815	236.410	238.906
64.5	278.335	272.571	241.199	199.462	140.556	202.855	225.342	233.899	236.535
65.0	276.947	271.417	239.530	197.200	137.467	200.694	222.721	231.364	234.078
65.5	275.652	270.176	237.978	194.774	134.285	198.494	220.163	228.953	231.613
66.0	274.061	268.827	236.215	192.683	131.251	196.388	217.659	226.496	229.281
66.5	272.852	267.649	234.671	190.414	128.131	194.282	215.108	224.094	226.816
67.0	271.362	266.526	233.087	188.370	125.120	192.239	212.612	221.567	224.234
67.5	270.200	265.216	231.535	186.178	121.906	190.180	209.999	219.164	221.957
68.0	268.975	264.108	230.006	184.096	118.966	188.136	207.503	216.770	219.531
68.5	267.571	263.055	228.602	182.153	116.017	185.944	204.875	214.336	217.074
69.0	266.222	261.901	227.011	179.993	112.882	183.830	202.410	211.864	214.633
69.5	264.911	260.770	225.576	177.988	109.910	181.623	199.828	209.461	212.300
70.0	263.702	259.756	224.164	175.960	106.860	179.533	197.441	207.113	209.820
70.5	262.439	258.664	222.752	174.018	103.974	177.286	194.696	204.656	207.488
71.0	261.128	257.486	221.348	172.060	101.127	175.102	192.356	202.207	205.163
71.5	259.779	256.534	219.991	170.149	98.335	172.832	189.797	199.813	202.636
72.0	258.586	255.505	218.735	168.160	95.402	170.633	187.395	197.387	200.195
72.5	257.478	254.483	217.300	166.234	92.742	168.496	184.813	195.101	197.816
73.0	256.136	253.500	216.037	164.323	89.887	166.156	182.231	192.769	195.507
73.5	255.021	252.502	214.687	162.529	87.118	164.034	179.837	190.234	192.917
74.0	253.734	251.558	213.455	160.688	84.521	161.515	177.388	187.879	190.609
74.5	252.798	250.481	212.222	158.956	81.744	159.136	174.845	185.367	188.113
75.0	251.589	249.553	210.982	157.303	79.139	156.788	172.396	183.011	185.695
75.5	250.286	248.609	209.687	155.618	76.518	154.253	169.923	180.547	183.386
76.0	249.085	247.736	208.517	154.011	74.014	151.687	167.427	178.214	180.898
76.5	247.907	246.706	207.371	152.435	71.339	149.261	164.931	175.773	178.370
77.0	246.839	245.848	206.224	150.813	69.108	146.702	162.466	173.386	176.249
77.5	245.513	244.881	205.023	149.339	66.565	144.089	160.095	171.023	173.768
78.0	244.452	244.015	203.900	147.755	64.155	141.391	157.568	168.496	171.257
78.5	243.321	243.196	202.761	146.227	61.862	138.676	155.181	166.148	168.839
79.0	242.089	242.245	201.583	144.768	59.522	136.165	152.623	163.706	166.374
79.5	241.051	241.402	200.546	143.395	57.299	133.310	150.173	161.327	164.042
80.0	239.811	240.497	199.399	141.874	54.982	130.611	147.615	158.886	161.616
80.5	238.859	239.616	198.260	140.540	52.814	127.959	145.197	156.382	159.167
81.0	237.572	238.766	197.239	139.027	50.692	125.089	142.607	153.995	156.718
81.5	236.426	237.853	196.108	137.771	48.649	122.585	140.299	151.663	154.315
82.0	235.373	236.909	195.195	136.422	46.410	119.683	137.740	149.152	151.850
82.5	234.367	236.145	194.111	134.995	44.398	116.961	135.221	146.695	149.417

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**CANDELA TABULATION - (Cont.)**

83.0	233.072	235.108	193.144	133.708	42.549	114.254	132.647	144.331	147.163
83.5	232.050	234.218	192.052	132.452	40.396	111.446	130.143	141.952	144.628
84.0	230.833	233.337	191.022	131.180	38.438	108.771	127.663	139.558	142.241
84.5	229.905	232.456	190.055	129.831	36.754	105.854	125.182	137.124	139.870
85.0	228.727	231.598	189.189	128.755	34.913	103.030	122.585	134.807	137.592
85.5	227.557	230.708	188.269	127.585	33.072	100.331	120.190	132.389	135.190
86.0	226.606	229.936	187.364	126.680	31.473	97.555	117.702	130.166	132.850
86.5	225.490	229.102	186.443	125.564	29.858	94.715	115.261	127.865	130.533
87.0	224.414	228.384	185.578	124.496	28.174	91.790	112.843	125.689	128.263
87.5	223.345	227.370	184.696	123.560	26.621	89.154	110.448	123.552	126.251
88.0	222.526	226.613	183.916	122.616	25.093	86.447	108.147	121.532	124.176
88.5	221.317	225.919	183.128	121.820	23.525	83.842	105.908	119.597	122.054
89.0	220.561	225.319	182.754	121.189	22.308	81.494	103.818	117.850	120.026
89.5	220.163	225.248	182.434	121.048	21.364	79.537	102.032	116.743	118.435
90.0	220.202	226.021	182.629	121.009	21.146	77.914	100.612	116.142	117.101
90.5	220.506	227.627	183.089	121.212	21.068	76.237	99.068	116.056	115.775
91.0	220.943	229.811	183.784	121.969	21.458	74.677	97.640	115.807	114.434
91.5	221.629	231.309	184.540	122.990	21.520	73.031	96.205	114.122	113.233
92.0	222.464	231.941	185.492	124.316	21.739	71.230	94.786	111.610	111.985
92.5	223.618	231.566	186.646	125.736	21.980	69.412	93.335	109.130	110.666
93.0	224.531	231.442	187.754	127.015	22.324	67.564	91.946	107.125	109.239
93.5	225.794	231.605	188.963	128.201	22.612	65.465	90.418	105.472	108.014
94.0	226.972	232.534	190.164	129.308	22.994	63.414	89.006	103.974	106.642
94.5	228.002	233.353	191.311	130.416	23.400	61.495	87.578	102.406	105.269
95.0	229.016	234.312	192.418	131.368	23.860	59.701	86.073	101.041	104.052
95.5	230.334	235.264	193.588	132.405	24.320	57.892	84.435	99.559	102.609
96.0	231.184	236.223	194.704	133.544	25.038	56.035	82.922	98.163	101.158
96.5	232.307	237.065	195.686	134.784	25.678	54.233	81.346	96.611	99.731
97.0	233.485	238.033	196.833	136.157	26.676	52.455	79.716	95.152	98.249
97.5	234.601	238.735	197.933	137.381	27.557	50.622	78.187	93.623	96.689
98.0	235.482	239.538	198.822	138.863	28.478	48.945	76.495	91.907	95.355
98.5	236.551	240.263	199.898	140.026	29.507	47.237	74.896	90.425	93.623
99.0	237.370	240.997	200.928	141.430	30.498	45.552	73.289	88.725	92.219
99.5	238.399	241.714	201.763	142.826	31.262	44.101	71.744	87.220	90.503
100.0	239.382	242.354	202.831	144.238	31.684	42.604	70.216	85.582	88.951
100.5	240.193	243.157	204.017	145.517	32.284	41.075	68.593	83.873	87.220
101.0	241.137	243.781	205.140	146.695	32.690	39.827	67.057	82.298	85.582
101.5	242.011	244.358	206.287	147.849	33.095	38.875	65.380	80.675	83.920
102.0	242.993	245.060	207.511	149.105	33.735	37.955	63.812	78.991	82.298
102.5	243.883	245.684	208.588	150.259	34.499	37.183	62.330	77.368	80.519
103.0	244.741	246.355	209.695	151.273	35.201	36.551	60.793	75.785	78.772
103.5	245.560	246.909	210.842	152.178	36.091	36.020	59.350	74.248	77.150
104.0	246.355	247.580	212.020	153.130	36.980	35.903	57.923	72.618	75.582
104.5	247.081	248.243	213.057	153.785	37.955	35.529	56.433	71.066	73.741
105.0	248.063	248.836	214.016	154.432	38.867	35.365	54.998	69.467	72.134
105.5	248.812	249.428	215.101	154.830	39.772	35.326	53.570	67.813	70.403
106.0	249.584	249.943	216.161	155.236	40.716	35.381	52.112	66.323	68.858
106.5	250.318	250.591	217.019	155.532	41.707	35.677	50.942	64.490	67.236
107.0	251.074	251.105	218.049	155.883	42.721	36.153	49.702	63.001	65.543
107.5	251.839	251.768	218.806	155.891	43.664	36.621	48.516	61.386	64.061
108.0	252.470	252.385	219.703	155.938	44.702	37.222	47.393	59.764	62.377
108.5	253.258	252.853	220.459	155.953	45.848	37.822	46.480	58.336	60.731
109.0	254.085	253.399	221.138	155.922	46.792	38.532	45.575	56.823	59.101
109.5	254.740	253.999	221.793	155.797	47.798	39.328	44.546	55.193	57.494
110.0	255.466	254.444	222.472	155.680	48.836	40.123	43.657	53.711	56.066
110.5	256.191	255.013	223.127	155.548	49.811	41.012	42.861	52.205	54.530

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**CANDELA TABULATION - (Cont.)**

111.0	257.080	255.364	223.665	155.431	50.801	41.886	41.956	50.778	52.853
111.5	257.712	255.832	224.172	155.095	51.667	42.853	41.340	49.468	51.457
112.0	258.289	256.253	224.640	154.682	52.627	43.805	40.654	48.173	49.990
112.5	258.976	256.589	224.921	154.253	53.516	44.912	40.092	46.995	48.282
113.0	259.584	257.065	225.295	153.746	54.538	45.942	39.616	45.903	47.034
113.5	260.138	257.416	225.412	153.231	55.513	47.151	39.070	44.920	45.692
114.0	260.543	257.634	225.654	152.576	56.472	48.181	38.688	43.984	44.281
114.5	260.972	257.860	225.787	151.928	57.431	49.257	38.243	43.064	43.150
115.0	261.409	258.094	225.904	151.242	58.375	50.419	37.908	42.128	42.073
115.5	261.667	258.266	225.849	150.524	59.366	51.550	37.697	41.488	41.200
116.0	261.823	258.359	225.771	149.893	60.349	52.767	37.526	40.568	40.466
116.5	262.306	258.422	225.615	149.066	61.347	53.703	37.424	40.123	39.671
117.0	262.415	258.539	225.506	148.418	62.306	54.857	37.518	39.429	38.984
117.5	262.610	258.461	225.233	147.763	63.172	55.988	37.448	38.821	38.267
118.0	262.610	258.391	225.069	147.085	64.241	57.096	37.502	38.399	37.783
118.5	262.852	258.320	224.624	146.234	65.169	58.313	37.682	37.869	37.167
119.0	262.954	258.102	224.180	145.431	66.074	59.405	37.830	37.534	36.754
119.5	262.946	257.884	223.774	144.823	67.096	60.583	38.103	37.097	36.340
120.0	262.993	257.556	223.337	143.949	68.133	61.745	38.267	36.816	35.779
120.5	263.219	257.299	222.745	143.122	68.897	62.884	38.704	36.598	35.638
121.0	263.188	256.940	222.113	142.327	69.997	64.116	39.008	36.371	35.006
121.5	263.266	256.534	221.489	141.391	70.894	65.356	39.569	36.192	34.889
122.0	263.180	255.918	220.740	140.595	71.744	66.511	40.014	36.254	34.546
122.5	263.266	255.497	219.999	139.729	72.673	67.712	40.583	35.989	34.258
123.0	263.032	254.935	219.149	138.856	73.616	68.897	41.090	35.989	33.829
123.5	262.829	254.288	218.345	137.935	74.443	70.106	41.831	35.825	33.844
124.0	262.197	253.679	217.402	137.023	75.223	71.393	42.440	35.903	33.618
124.5	261.557	252.907	216.575	136.165	76.097	72.680	43.134	35.896	33.462
125.0	261.019	252.221	215.522	135.174	76.963	74.038	44.078	35.864	33.368
125.5	260.341	251.355	214.586	134.300	77.750	75.270	44.889	36.020	33.400
126.0	259.506	250.598	213.338	133.364	78.616	76.596	45.778	36.223	33.337
126.5	258.757	249.662	212.316	132.600	79.365	77.860	46.722	36.364	33.322
127.0	258.079	248.812	211.185	131.742	80.200	79.217	47.658	36.613	33.548
127.5	257.260	247.744	209.836	130.744	80.808	80.480	48.641	36.933	33.751
128.0	256.339	246.714	208.720	130.010	81.635	81.744	49.585	37.292	33.868
128.5	255.497	245.404	207.410	129.207	82.243	82.969	50.489	37.510	34.164
129.0	254.600	244.249	206.115	128.357	82.883	84.131	51.503	37.963	34.164
129.5	253.508	242.728	204.617	127.655	83.554	85.574	52.588	38.446	34.702
130.0	252.463	241.309	203.174	126.836	84.201	86.635	53.477	38.906	35.014
130.5	251.464	239.827	201.583	125.993	84.755	87.922	54.506	39.374	35.459
131.0	250.279	238.313	200.132	125.268	85.184	89.146	55.364	40.069	35.825
131.5	249.054	236.699	198.596	124.496	85.839	90.332	56.386	40.560	36.278
132.0	247.868	235.147	197.036	123.653	86.323	91.744	57.431	41.293	36.839
132.5	246.371	233.485	195.320	122.944	86.869	93.023	58.391	42.011	37.424
133.0	244.975	231.878	193.682	121.922	87.227	94.224	59.405	42.783	38.033
133.5	243.680	230.318	192.013	121.204	87.641	95.378	60.442	43.563	38.633
134.0	241.987	228.556	190.195	120.409	87.883	96.634	61.542	44.398	39.320
134.5	240.505	226.824	188.323	119.574	88.226	97.594	62.462	45.193	40.092
135.0	238.805	224.913	186.451	118.841	88.616	98.686	63.609	46.207	40.841
135.5	237.292	223.103	184.587	118.053	88.897	99.466	64.568	47.112	41.675
136.0	235.443	221.177	182.653	117.265	89.123	100.269	65.614	48.095	42.643
136.5	233.711	219.250	180.625	116.415	89.310	100.924	66.604	49.148	43.571
137.0	231.777	217.222	178.729	115.604	89.349	101.462	67.712	50.185	44.538
137.5	229.788	215.171	176.670	114.847	89.411	101.938	68.765	51.074	45.653
138.0	227.776	213.182	174.728	114.059	89.575	102.172	69.919	51.964	46.691
138.5	225.631	211.091	172.731	113.334	89.622	102.359	70.964	53.071	47.892

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**CANDELA TABULATION - (Cont.)**

139.0	223.408	208.946	170.804	112.577	89.731	102.562	71.947	54.101	48.929
139.5	221.224	206.825	168.667	111.829	89.723	102.757	73.047	54.928	49.889
140.0	219.172	204.625	166.772	111.181	89.817	102.843	74.194	56.035	51.113
140.5	216.684	202.340	164.611	110.464	90.067	102.593	75.301	56.956	52.229
141.0	214.367	200.093	162.599	109.629	89.950	102.445	76.378	57.993	53.087
141.5	211.996	197.847	160.524	109.021	89.817	101.790	77.532	58.882	54.296
142.0	209.633	195.515	158.465	108.326	89.840	101.057	78.655	59.787	55.544
142.5	207.098	193.323	156.421	107.695	89.739	100.230	79.732	60.863	56.511
143.0	204.773	190.889	154.276	107.047	89.466	99.200	80.909	61.870	57.814
143.5	202.270	188.456	152.248	106.392	89.216	98.288	81.955	62.845	58.726
144.0	199.594	185.921	150.181	105.752	89.099	97.133	83.008	63.921	59.881
144.5	197.122	183.542	148.099	105.230	88.772	96.104	84.256	64.670	61.090
145.0	194.501	181.186	146.071	104.606	88.483	94.801	85.324	65.840	62.002
145.5	191.872	178.581	143.980	103.966	87.805	93.436	86.572	66.862	63.196
146.0	189.306	176.132	141.913	103.311	87.196	91.978	87.610	67.930	64.483
146.5	186.623	173.698	139.932	102.718	86.440	90.418	88.670	68.874	65.567
147.0	183.893	171.023	137.912	102.001	85.558	88.764	89.622	69.919	66.550
147.5	181.171	168.519	135.923	101.431	84.739	87.103	90.737	70.996	68.016
148.0	178.363	166.031	133.981	100.784	83.702	85.309	91.580	72.088	68.968
148.5	175.617	163.527	132.093	100.230	82.540	83.616	92.375	73.195	70.177
149.0	172.981	160.898	130.143	99.544	81.526	82.111	93.265	74.194	71.370
149.5	170.243	158.324	128.294	98.951	80.356	80.644	93.873	75.340	72.517
150.0	167.458	155.782	126.477	98.101	79.342	79.349	94.474	76.393	73.757
150.5	164.681	153.247	124.660	97.258	78.491	78.094	94.988	77.618	75.278
151.0	161.741	150.657	122.858	96.525	77.509	76.588	95.324	78.874	76.315
151.5	158.964	148.036	121.165	95.628	76.580	75.434	95.433	79.825	77.587
152.0	156.203	145.525	119.465	94.676	75.527	74.318	95.378	81.034	79.123
152.5	153.332	142.919	117.842	93.826	74.896	73.421	94.988	82.243	80.613
153.0	150.470	140.392	116.251	92.906	74.123	72.517	94.887	83.234	81.650
153.5	147.763	137.959	114.722	92.024	73.437	71.721	94.411	84.349	83.281
154.0	144.940	135.494	113.162	91.174	72.626	70.590	93.857	85.293	84.521
154.5	142.147	133.068	111.649	89.989	71.604	69.576	93.319	86.213	85.660
155.0	139.480	130.580	110.261	88.787	70.746	68.531	92.625	87.103	87.196
155.5	136.679	128.123	108.677	87.586	70.036	67.057	91.798	87.797	88.374
156.0	133.973	125.923	107.468	86.252	69.248	65.918	90.519	88.639	89.505
156.5	131.329	123.443	106.096	84.989	68.632	64.756	88.998	89.248	90.745
157.0	128.630	121.212	104.816	83.655	68.156	63.773	87.298	89.606	91.619
157.5	126.220	118.942	103.420	82.298	67.642	62.860	85.176	90.035	92.477
158.0	123.887	116.953	102.219	81.151	67.330	62.252	83.327	90.363	93.296
158.5	121.672	114.894	101.018	80.028	67.353	61.753	81.549	90.597	94.013
159.0	119.223	112.928	99.809	78.920	67.306	61.542	79.903	90.535	94.474
159.5	117.125	110.963	98.592	77.797	66.963	61.534	78.031	90.277	95.113
160.0	114.886	109.122	97.586	76.885	66.339	61.394	76.175	89.918	95.464
160.5	112.772	107.250	96.377	75.824	65.715	61.019	74.108	89.677	95.683
161.0	110.713	105.557	95.121	74.849	64.763	60.544	71.963	89.170	95.815
161.5	108.693	103.756	94.045	74.006	63.999	59.857	69.615	88.686	95.714
162.0	106.938	102.258	92.898	72.977	63.664	59.366	67.197	88.007	95.066
162.5	105.066	100.682	91.845	72.127	63.593	58.929	64.943	87.344	94.130
163.0	103.342	99.060	90.784	71.175	63.773	58.609	62.829	86.494	92.999
163.5	101.650	97.656	89.645	70.231	63.765	58.718	61.019	85.488	91.783
164.0	100.129	96.127	88.304	69.225	63.632	58.929	59.654	84.224	90.308
164.5	98.428	94.637	87.071	68.102	63.071	59.132	58.149	82.586	88.678
165.0	96.697	93.389	85.660	66.947	62.392	59.085	56.753	80.831	86.915
165.5	95.074	91.970	84.240	65.754	61.784	58.422	55.700	78.741	85.012
166.0	93.272	90.090	82.883	64.631	61.191	57.408	54.530	76.635	83.171
166.5	91.790	87.929	81.331	63.515	60.512	56.722	53.570	74.428	81.034



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**CANDELA TABULATION - (Cont.)**

<b>167.0</b>	90.191	86.346	79.989	62.509	60.239	56.215	52.705	72.166	79.154
<b>167.5</b>	88.756	84.614	78.491	61.417	59.834	55.809	51.925	69.763	76.651
<b>168.0</b>	87.196	83.086	77.025	60.528	59.795	55.310	51.308	67.197	74.030
<b>168.5</b>	85.683	81.611	75.434	59.818	59.530	55.216	50.840	64.771	71.776
<b>169.0</b>	84.178	80.005	73.952	58.913	59.436	55.123	50.279	62.267	69.459
<b>169.5</b>	82.898	78.406	71.971	58.063	59.179	54.834	49.748	59.693	67.033
<b>170.0</b>	81.385	76.916	70.005	56.987	58.765	54.857	49.491	57.080	64.420
<b>170.5</b>	79.778	75.527	67.946	56.230	58.071	55.130	48.922	54.343	62.135
<b>171.0</b>	78.273	74.092	65.863	55.396	57.135	55.497	48.181	51.948	59.810
<b>171.5</b>	76.643	72.946	64.100	54.803	56.176	55.864	47.697	49.725	57.767
<b>172.0</b>	75.286	71.526	62.572	54.101	55.341	55.957	47.026	47.596	55.684
<b>172.5</b>	73.921	70.216	61.004	53.407	54.631	55.708	46.550	46.028	53.570
<b>173.0</b>	72.478	68.897	59.264	52.845	54.210	55.162	46.192	44.717	51.722
<b>173.5</b>	70.988	67.369	57.736	52.221	53.843	54.694	45.848	43.462	49.647
<b>174.0</b>	69.693	65.949	56.121	51.769	53.812	54.499	45.568	42.502	47.869
<b>174.5</b>	68.297	64.529	54.389	51.199	53.976	54.413	45.630	41.613	45.887
<b>175.0</b>	66.846	63.188	52.525	50.778	54.031	54.343	45.911	40.849	43.961
<b>175.5</b>	65.715	61.916	50.669	50.248	53.984	54.163	46.270	39.975	41.948
<b>176.0</b>	64.459	60.700	49.023	49.943	53.921	53.992	46.706	39.070	40.108
<b>176.5</b>	63.320	59.569	47.674	49.787	53.734	53.953	47.447	38.126	38.696
<b>177.0</b>	61.823	58.562	46.660	49.686	53.586	54.007	48.227	37.058	37.580
<b>177.5</b>	60.115	57.556	45.653	49.694	53.485	54.132	48.727	36.457	36.481
<b>178.0</b>	58.633	56.534	44.827	49.600	53.625	54.187	49.070	35.584	35.474
<b>178.5</b>	57.065	55.388	44.125	49.312	53.804	54.265	49.117	35.123	34.663
<b>179.0</b>	55.739	54.475	43.196	49.101	53.937	54.483	49.241	34.850	33.914
<b>179.5</b>	54.483	53.375	42.370	48.625	53.898	54.506	49.187	34.804	33.392
<b>180.0</b>	47.065	47.065	47.065	47.065	47.065	47.065	47.065	47.065	47.065

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSN MROR 6 LIGHT.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	194.46	N.A.	7.50
0-30	446.90	N.A.	17.30
0-40	751.16	N.A.	29.20
0-60	1284.76	N.A.	49.90
0-80	1691.41	N.A.	65.60
0-90	1845.74	N.A.	71.60
10-90	1801.59	N.A.	69.90
20-40	556.70	N.A.	21.60
20-50	843.74	N.A.	32.70
40-70	751.46	N.A.	29.20
60-80	406.65	N.A.	15.80
70-80	188.79	N.A.	7.30
80-90	154.33	N.A.	6.00
90-110	265.20	N.A.	10.30
90-120	386.34	N.A.	15.00
90-130	496.30	N.A.	19.30
90-150	659.85	N.A.	25.60
90-180	730.69	N.A.	28.40
110-180	465.50	N.A.	18.10
0-180	2576.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	44.15
10-20	150.31
20-30	252.44
30-40	304.25
40-50	287.04
50-60	246.56
60-70	217.86
70-80	188.79
80-90	154.33
90-100	136.02
100-110	129.18
110-120	121.14
120-130	109.96
130-140	93.40
140-150	70.16
150-160	44.19
160-170	21.36
170-180	5.29

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSN MROR 6 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	106	106	106	106	95	95	95	85	85	85	76	76	76	72	72
1	100	95	90	86	95	90	85	81	80	77	74	72	69	66	64	62	60	56	56
2	91	82	75	69	85	78	71	65	69	64	60	62	58	54	55	52	49	45	45
3	82	72	63	56	77	68	60	54	61	55	50	54	49	45	48	44	41	38	38
4	75	63	54	47	71	60	52	46	54	47	42	48	43	38	43	39	35	32	32
5	69	56	47	41	65	53	45	39	48	41	36	43	38	33	39	34	30	27	27
6	64	50	42	35	60	48	40	34	43	37	31	39	33	29	35	30	27	24	24
7	59	46	37	31	55	43	35	30	39	33	28	35	30	26	32	27	24	21	21
8	55	41	33	27	52	40	32	26	36	29	25	32	27	23	29	25	21	19	19
9	51	38	30	24	48	36	29	24	33	27	22	30	24	20	27	22	19	17	17
10	48	35	27	22	45	33	26	21	30	24	20	28	22	18	25	20	17	15	15

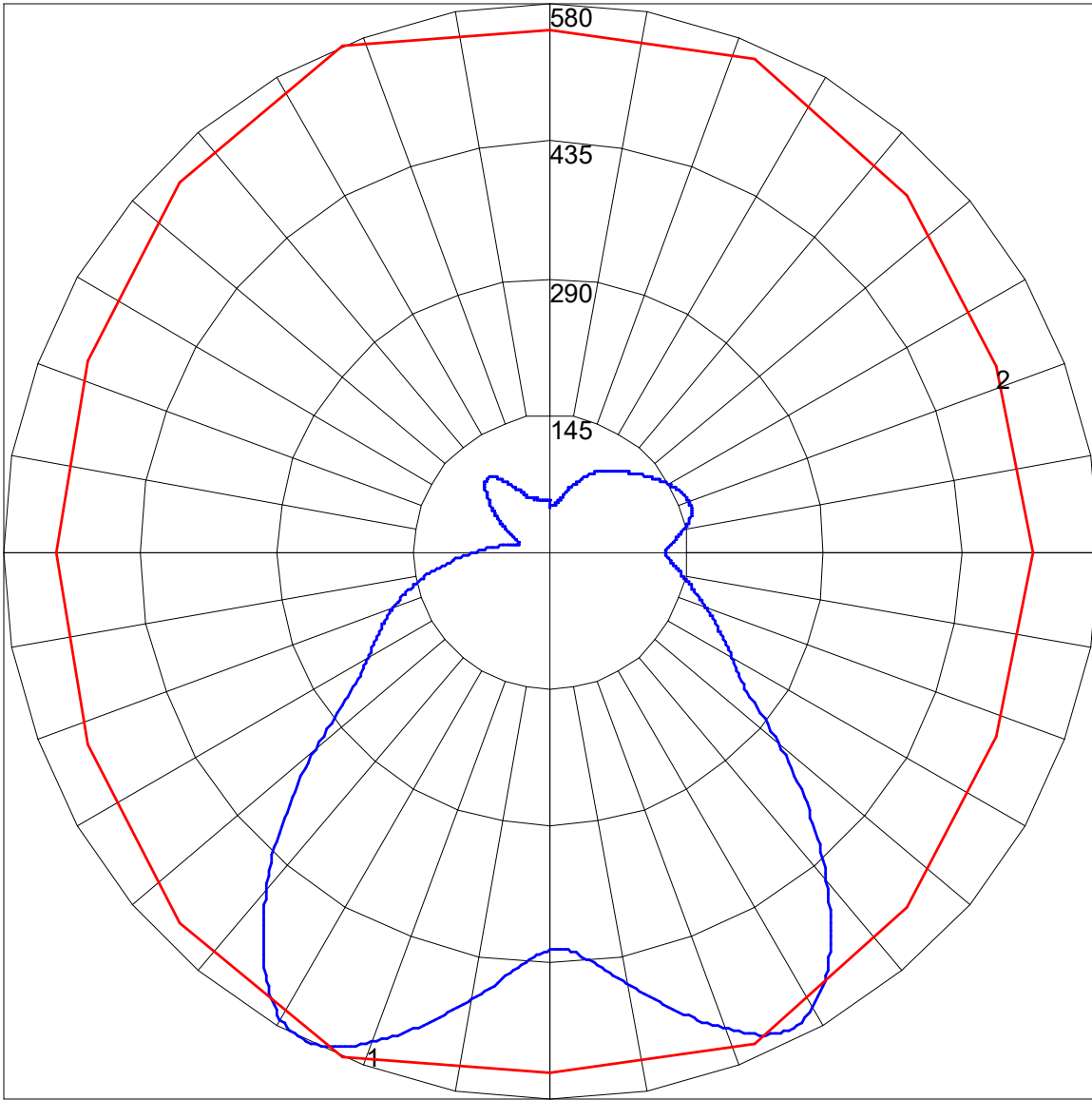
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : FSN MROR 6 LIGHT.IES**

**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	12.2	13.3	12.9	14.1	15.0	10.4	11.6	11.1	12.3	13.2
	3H	14.5	15.6	15.3	16.4	17.3	11.8	12.9	12.5	13.6	14.6
	4H	15.6	16.7	16.4	17.4	18.4	12.3	13.3	13.0	14.1	15.0
	6H	16.8	17.7	17.5	18.5	19.4	12.6	13.5	13.4	14.3	15.3
	8H	17.3	18.2	18.1	19.0	19.9	12.7	13.6	13.5	14.4	15.4
	12H	17.8	18.6	18.6	19.4	20.4	12.7	13.6	13.5	14.4	15.4
4H	2H	12.8	13.8	13.6	14.6	15.6	11.5	12.5	12.2	13.3	14.2
	3H	15.4	16.3	16.2	17.1	18.1	13.2	14.1	14.0	14.9	15.9
	4H	16.8	17.6	17.6	18.4	19.4	14.0	14.8	14.8	15.6	16.6
	6H	18.1	18.8	18.9	19.6	20.6	14.5	15.2	15.3	16.0	17.0
	8H	18.7	19.4	19.5	20.2	21.2	14.7	15.3	15.5	16.2	17.2
	12H	19.3	19.9	20.1	20.8	21.8	14.8	15.4	15.6	16.2	17.3
8H	4H	17.2	17.9	18.0	18.7	19.7	14.9	15.5	15.7	16.4	17.4
	6H	18.8	19.3	19.6	20.2	21.2	15.7	16.3	16.5	17.1	18.2
	8H	19.6	20.1	20.4	20.9	22.0	16.0	16.5	16.9	17.4	18.4
	12H	20.3	20.8	21.2	21.7	22.8	16.3	16.7	17.1	17.6	18.7
12H	4H	17.3	17.9	18.1	18.7	19.8	15.1	15.7	16.0	16.6	17.6
	6H	18.9	19.4	19.8	20.3	21.3	16.1	16.6	16.9	17.5	18.5
	8H	19.8	20.2	20.6	21.1	22.2	16.5	17.0	17.4	17.9	18.9

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 580.406 Located At Horizontal Angle = 112.5, Vertical Angle = 27  
# 1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (27) (Through Max. Cd.)