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IES INDOOR REPORT
PHOTOMETRIC FILENAME : FAL-7565W.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LM-79-08
[TESTLAB] Orb Optronix, Inc.
[ISSUEDATE] 07-19-2019
[MANUFAC] Justice Design
[LUMINAIRE] FAL-7565W

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	429
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	18
Total Luminaire Watts	23.93
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.29 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	2.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	766	629	487
55	803	653	505
65	824	667	512
75	846	682	521
85	886	708	539

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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>	<u>202.5</u>
0.0	6.135	6.135	6.135	6.135	6.135	6.135	6.135	6.135	6.135	6.135
2.5	8.252	8.638	8.190	7.230	6.521	5.983	6.118	5.561	5.633	5.481
5.0	10.961	11.401	10.638	8.898	7.382	6.521	6.539	5.750	5.579	5.517
7.5	14.038	14.567	13.365	10.746	8.234	7.212	6.808	5.839	5.517	5.588
10.0	17.509	17.868	16.146	12.728	9.311	7.983	7.221	5.920	5.463	5.759
12.5	20.810	21.160	19.106	14.801	10.387	8.800	7.642	5.974	5.382	5.777
15.0	24.111	24.506	21.941	16.873	11.482	9.634	8.100	6.010	5.256	5.902
17.5	27.672	27.968	24.892	18.954	12.594	10.522	8.414	6.010	5.158	5.920
20.0	31.198	31.521	28.004	21.115	13.760	11.365	8.880	6.028	4.934	5.911
22.5	34.651	35.073	31.036	23.286	14.872	12.253	9.392	6.109	4.826	5.893
25.0	38.033	38.454	34.050	25.493	15.949	13.132	9.670	6.198	4.611	5.938
27.5	41.334	41.728	36.929	27.430	17.052	13.957	10.037	6.279	4.485	6.001
30.0	44.500	44.904	39.504	29.440	18.066	14.765	10.459	6.333	4.180	6.055
32.5	47.406	47.981	42.231	31.278	18.972	15.473	10.638	6.342	3.974	5.974
35.0	50.331	50.968	44.680	33.072	19.886	16.173	10.916	6.378	3.767	6.010
37.5	53.354	54.116	47.245	34.839	20.846	16.908	11.195	6.378	3.570	6.001
40.0	56.385	57.273	49.837	36.804	21.716	17.590	11.428	6.387	3.229	6.064
42.5	59.390	60.512	52.457	38.562	22.667	18.344	11.544	6.423	3.050	6.010
45.0	62.306	63.624	55.040	40.383	23.582	19.061	11.885	6.440	2.817	6.001
47.5	65.077	66.575	57.354	41.998	24.398	19.725	12.163	6.521	2.691	6.028
50.0	67.652	69.320	59.561	43.549	25.179	20.263	12.441	6.521	2.458	6.010
52.5	70.325	72.271	61.732	44.976	25.923	20.891	12.710	6.656	2.269	6.055
55.0	72.783	75.088	63.848	46.375	26.515	21.483	12.944	6.665	2.117	6.028
57.5	74.953	77.591	65.759	47.631	27.152	21.932	13.213	6.683	1.902	6.055
60.0	76.900	79.797	67.419	48.662	27.583	22.326	13.401	6.656	1.731	6.064
62.5	78.523	81.654	68.764	49.586	27.924	22.586	13.491	6.701	1.650	6.055
65.0	80.048	83.277	70.065	50.250	28.193	22.766	13.634	6.719	1.606	6.135
67.5	81.394	84.820	71.033	50.833	28.345	22.918	13.733	6.817	1.570	6.100
70.0	82.721	86.417	72.137	51.533	28.516	23.026	13.868	6.889	1.462	6.198
72.5	83.968	87.422	73.285	52.143	28.874	23.250	14.092	6.997	1.435	6.243
75.0	85.260	87.117	74.478	52.771	29.099	23.510	14.370	7.113	1.444	6.279
77.5	86.587	87.897	75.447	53.425	29.305	23.842	14.594	7.203	1.372	6.378
80.0	87.888	88.857	76.514	53.910	29.547	23.986	14.693	7.149	1.283	6.423
82.5	88.991	89.727	77.241	54.215	29.655	24.147	14.729	7.113	1.112	6.333
85.0	89.736	90.301	77.895	54.556	29.655	24.282	14.729	7.015	0.897	6.288
87.5	90.184	90.660	78.344	54.600	29.619	24.192	14.693	7.041	0.879	6.243
90.0	90.283	90.453	78.308	54.439	29.449	24.111	14.594	7.024	0.879	6.288
92.5	90.149	90.211	78.066	54.251	29.440	24.067	14.451	6.934	0.897	6.288
95.0	89.772	89.539	77.752	54.008	29.350	23.950	14.504	7.032	1.014	6.414
97.5	89.081	89.000	77.187	53.587	29.188	23.744	14.307	6.934	0.978	6.252
100.0	88.247	88.157	76.685	53.219	28.982	23.510	14.173	6.790	0.915	6.118
102.5	87.368	87.422	76.039	52.833	28.722	23.259	13.895	6.656	0.780	6.028
105.0	86.453	86.336	75.196	52.412	28.471	23.017	13.697	6.467	0.771	5.875
107.5	85.287	85.394	74.227	51.775	28.184	22.739	13.437	6.467	0.798	5.786
110.0	83.852	84.228	73.025	51.174	27.906	22.416	13.195	6.530	0.834	5.651
112.5	82.192	82.883	71.886	50.537	27.457	22.093	12.872	6.423	0.816	5.508
115.0	80.308	81.421	71.303	49.775	27.036	21.734	12.567	6.189	0.762	5.427
117.5	78.452	79.842	70.791	48.967	26.614	21.313	12.226	6.064	0.745	5.283
120.0	76.541	78.470	70.083	48.223	26.201	20.855	12.047	5.902	0.798	5.149
122.5	75.258	77.689	69.087	47.335	25.726	20.443	11.580	5.750	0.816	5.059
125.0	74.137	76.774	67.114	46.204	25.367	19.895	11.257	5.561	0.906	4.907
127.5	72.460	75.357	64.557	44.742	24.865	19.339	10.890	5.373	0.852	4.817
130.0	70.235	73.267	61.794	42.921	24.192	18.747	10.504	5.095	0.915	4.682
132.5	67.562	70.648	59.157	40.912	23.322	18.048	10.154	4.934	0.915	4.539

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CANDELA TABULATION - (Cont.)

135.0	64.369	67.383	56.628	38.984	22.425	17.276	9.723	4.826	0.951	4.404
137.5	61.166	64.243	53.838	37.082	21.456	16.532	9.266	4.646	1.085	4.270
140.0	57.830	61.211	52.331	35.082	20.443	15.805	8.871	4.422	1.175	4.180
142.5	54.600	58.045	49.308	33.054	19.393	15.016	8.450	4.315	1.184	3.992
145.0	51.165	54.466	46.617	30.749	18.317	14.235	8.046	4.108	1.229	3.857
147.5	47.406	50.564	43.711	28.408	17.195	13.276	7.454	3.714	1.328	3.758
150.0	43.558	46.779	40.598	26.040	15.967	12.262	6.745	3.427	1.076	3.436
152.5	39.629	42.912	37.279	23.609	14.316	11.069	6.387	3.077	1.076	3.068
155.0	34.750	36.311	33.709	20.810	13.231	10.235	5.615	2.619	0.924	2.700
157.5	32.032	34.741	29.206	18.720	12.020	9.078	5.032	2.341	0.673	2.332
160.0	28.013	30.408	27.027	16.047	10.378	7.786	4.306	1.848	0.502	2.054
162.5	23.950	26.067	23.196	13.249	8.638	6.647	3.696	1.462	0.413	1.668
165.0	20.021	21.932	19.268	10.324	7.158	5.526	2.808	1.085	0.404	1.085
167.5	15.949	17.545	15.554	7.723	5.723	4.153	1.902	0.673	0.457	0.816
170.0	12.540	13.769	11.813	5.256	4.054	2.906	0.987	0.493	0.386	0.673
172.5	7.840	8.898	5.974	3.122	2.314	1.489	0.511	0.413	0.341	0.502
175.0	3.373	4.001	2.996	1.507	0.969	0.628	0.305	0.475	0.457	0.556
177.5	0.619	1.148	1.032	0.538	0.332	0.359	0.440	0.466	0.457	0.466
180.0	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511	0.511

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	6.135	6.135	6.135	6.135	6.135	6.135	6.135
2.5	5.750	6.010	6.620	7.032	7.849	7.355	7.732
5.0	5.902	6.745	7.472	8.566	10.253	9.786	10.360
7.5	6.234	7.472	8.324	10.271	12.899	12.728	13.437
10.0	6.593	7.983	9.401	12.235	15.698	15.976	16.648
12.5	6.925	8.611	10.477	14.074	18.693	19.402	20.021
15.0	7.337	9.356	11.607	16.047	21.456	22.820	23.367
17.5	7.651	10.235	12.675	18.048	24.327	26.318	26.731
20.0	8.028	11.015	13.868	19.949	27.394	29.906	30.148
22.5	8.477	11.831	14.935	21.914	30.121	33.449	33.638
25.0	8.853	12.603	16.020	23.887	32.983	36.903	36.983
27.5	9.176	13.401	17.079	25.780	35.772	40.311	40.239
30.0	9.544	14.191	18.155	27.663	38.436	43.585	43.397
32.5	9.912	14.989	19.196	29.511	41.065	46.599	46.267
35.0	10.289	15.742	20.165	31.296	43.585	49.613	49.371
37.5	10.513	16.298	21.205	33.099	46.025	52.654	52.241
40.0	10.979	17.124	22.201	34.893	48.537	55.695	55.273
42.5	11.204	17.868	23.178	36.840	51.237	58.798	58.314
45.0	11.526	18.595	24.192	38.715	53.712	61.839	61.337
47.5	11.939	19.384	25.017	40.526	56.134	64.683	64.100
50.0	12.172	20.021	25.852	42.311	58.386	67.419	66.728
52.5	12.495	20.658	26.659	43.944	60.548	70.038	69.320
55.0	12.773	21.277	27.350	45.550	62.664	72.639	71.823
57.5	12.944	21.860	27.995	47.093	64.575	75.079	74.191
60.0	13.132	22.380	28.471	48.438	66.234	77.160	76.263
62.5	13.267	22.802	28.892	49.541	67.652	78.891	78.048
65.0	13.410	23.125	29.233	50.618	68.934	80.524	79.591
67.5	13.455	23.430	29.457	51.452	70.127	81.896	80.981
70.0	13.590	23.726	29.780	52.196	71.231	83.322	82.264
72.5	13.778	23.995	30.103	53.022	72.343	84.596	83.771
75.0	13.966	24.273	30.471	53.712	73.393	85.906	85.116
77.5	14.146	24.596	31.099	54.538	74.496	87.260	86.498
80.0	14.379	24.990	31.637	55.148	75.707	88.695	87.754

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CANDELA TABULATION - (Cont.)

82.5	14.469	25.304	32.041	55.659	76.586	89.870	88.830
85.0	14.558	25.511	32.247	55.991	77.214	90.785	89.763
87.5	14.460	25.609	32.301	56.045	77.582	91.386	90.337
90.0	14.594	25.565	32.319	55.910	77.806	91.629	90.588
92.5	14.504	25.448	32.193	55.587	77.573	91.548	90.436
95.0	14.415	25.313	32.193	55.130	77.223	91.198	89.870
97.5	14.307	25.143	31.969	54.538	76.685	90.624	89.198
100.0	14.164	24.838	31.619	53.847	76.075	89.951	88.426
102.5	13.912	24.479	31.234	53.067	75.160	89.144	87.655
105.0	13.563	24.067	30.902	52.187	74.316	88.103	86.695
107.5	13.347	23.591	30.381	51.308	73.375	86.982	85.403
110.0	13.096	23.304	29.960	50.393	72.146	85.556	83.914
112.5	12.863	22.838	29.314	49.290	70.702	83.870	82.273
115.0	12.504	22.344	28.767	48.366	69.742	82.120	80.479
117.5	12.226	21.725	28.121	47.254	69.069	80.335	78.550
120.0	11.903	21.232	27.484	46.294	68.208	78.622	76.604
122.5	11.634	20.721	26.793	45.290	67.167	77.438	75.097
125.0	11.347	20.174	26.273	44.168	65.194	76.003	73.868
127.5	11.069	19.555	25.672	42.634	62.727	74.182	72.182
130.0	10.728	18.801	24.865	40.894	60.036	71.868	70.217
132.5	10.378	18.164	24.013	39.127	57.507	68.845	67.715
135.0	9.921	17.509	23.089	37.387	55.013	65.490	64.530
137.5	9.589	16.765	22.021	35.629	52.403	62.189	61.220
140.0	9.257	16.047	21.071	33.835	49.290	59.014	58.045
142.5	8.862	15.240	20.003	33.261	46.285	55.793	54.825
145.0	8.441	14.397	18.998	31.610	43.397	52.214	51.649
147.5	7.759	13.679	17.940	29.296	40.213	48.420	47.837
150.0	7.373	12.495	16.864	26.946	36.974	44.698	44.097
152.5	6.754	11.769	15.294	24.820	33.978	40.553	40.428
155.0	6.046	10.665	14.307	21.977	29.610	36.382	35.432
157.5	5.382	9.499	12.953	20.227	27.206	33.001	32.723
160.0	4.718	8.261	11.374	17.716	23.681	29.144	28.668
162.5	4.135	7.104	9.822	15.016	20.165	25.188	24.757
165.0	3.274	6.055	8.208	12.235	16.729	20.927	20.837
167.5	2.521	4.951	6.449	9.553	13.383	17.124	16.702
170.0	1.570	3.669	5.167	7.203	9.194	13.607	13.338
172.5	0.870	2.198	3.516	5.104	5.059	8.611	8.656
175.0	0.736	1.014	1.785	3.220	2.449	4.189	4.180
177.5	0.700	0.709	0.798	1.624	1.103	1.390	0.870
180.0	0.511	0.511	0.511	0.511	0.511	0.511	0.511

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4.88	N.A.	1.10
0-30	14.27	N.A.	3.30
0-40	30.52	N.A.	7.10
0-60	86.95	N.A.	20.20
0-80	169.77	N.A.	39.50
0-90	216.82	N.A.	50.50
10-90	215.97	N.A.	50.30
20-40	25.65	N.A.	6.00
20-50	49.82	N.A.	11.60
40-70	95.36	N.A.	22.20
60-80	82.82	N.A.	19.30
70-80	43.88	N.A.	10.20
80-90	47.05	N.A.	11.00
90-110	90.62	N.A.	21.10
90-120	129.13	N.A.	30.10
90-130	161.27	N.A.	37.60
90-150	201.09	N.A.	46.80
90-180	212.63	N.A.	49.50
110-180	122.01	N.A.	28.40
0-180	429.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.85
10-20	4.03
20-30	9.39
30-40	16.26
40-50	24.18
50-60	32.25
60-70	38.94
70-80	43.88
80-90	47.05
90-100	46.88
100-110	43.74
110-120	38.51
120-130	32.14
130-140	24.03
140-150	15.80
150-160	8.32
160-170	2.92
170-180	0.30

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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	
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	92	86	80	74	84	78	73	68	65	61	57	53	50	47	41	39	37	31
2	82	72	63	56	74	66	58	52	54	48	43	43	39	35	33	30	27	22
3	73	61	52	44	67	56	48	41	46	39	34	36	31	27	28	24	20	16
4	66	53	43	36	60	48	40	33	40	33	27	31	26	22	24	20	16	12
5	60	47	37	30	55	42	34	27	35	28	23	28	22	18	21	17	13	10
6	55	41	32	25	50	38	29	23	31	24	19	24	19	15	18	14	11	8
7	51	37	28	21	46	34	25	20	28	21	16	22	17	13	17	12	9	6
8	47	33	24	18	43	30	22	17	25	18	14	20	15	11	15	11	8	5
9	44	30	22	16	40	27	20	15	23	16	12	18	13	9	14	10	7	5
10	41	27	19	14	37	25	18	13	21	15	11	17	12	8	13	9	6	4

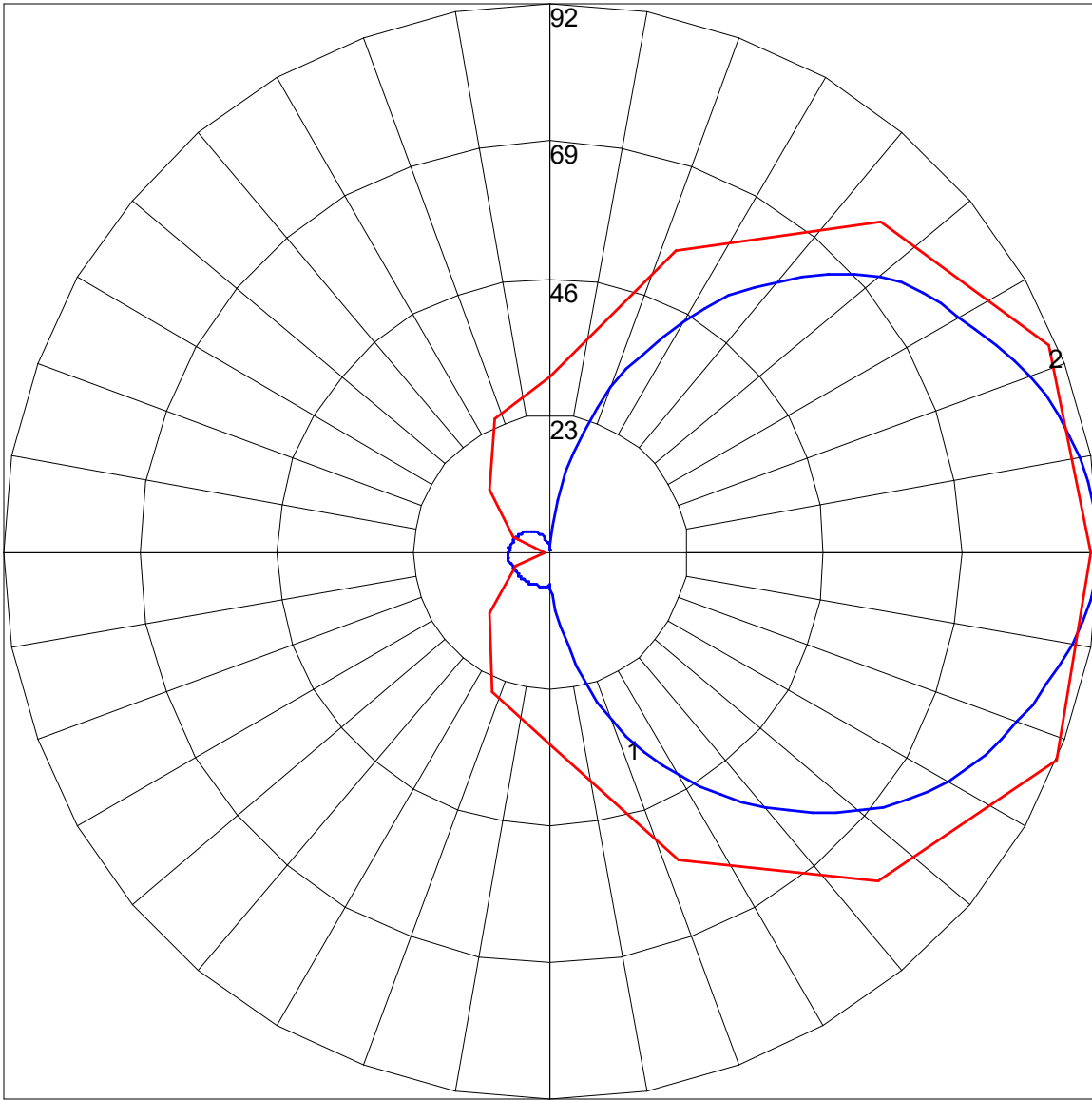
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UGR TABLE - CORRECTED

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	10.9	11.9	11.8	12.9	14.1	4.5	5.6	5.4	6.5	7.8
	3H	14.1	15.0	15.0	16.0	17.3	7.0	7.9	7.9	8.9	10.2
	4H	15.6	16.6	16.6	17.5	18.8	8.2	9.1	9.1	10.1	11.3
	6H	17.2	18.1	18.1	19.0	20.3	9.3	10.2	10.3	11.2	12.5
	8H	18.0	18.8	18.9	19.8	21.1	9.9	10.7	10.8	11.7	13.0
	12H	18.7	19.5	19.7	20.5	21.8	10.4	11.2	11.4	12.2	13.5
4H	2H	11.3	12.2	12.2	13.2	14.5	6.2	7.1	7.1	8.1	9.4
	3H	14.8	15.6	15.7	16.6	17.9	8.8	9.6	9.8	10.6	11.9
	4H	16.5	17.3	17.5	18.3	19.6	10.1	10.9	11.1	11.9	13.2
	6H	18.3	19.0	19.3	20.0	21.3	11.4	12.0	12.3	13.1	14.3
	8H	19.2	19.8	20.1	20.8	22.2	11.9	12.6	12.9	13.6	14.9
	12H	20.1	20.6	21.0	21.7	23.0	12.5	13.1	13.5	14.1	15.5
8H	4H	16.8	17.5	17.8	18.5	19.8	11.3	11.9	12.2	12.9	14.2
	6H	18.8	19.4	19.8	20.4	21.8	12.8	13.3	13.8	14.4	15.7
	8H	19.9	20.4	20.9	21.4	22.7	13.5	14.0	14.5	15.0	16.4
	12H	21.0	21.4	22.0	22.4	23.8	14.2	14.6	15.2	15.7	17.0
12H	4H	16.9	17.5	17.8	18.5	19.8	11.6	12.2	12.6	13.2	14.5
	6H	18.9	19.4	19.9	20.5	21.8	13.2	13.7	14.2	14.8	16.1
	8H	20.0	20.5	21.1	21.5	22.9	14.0	14.5	15.1	15.5	16.9

Maximum UGR = 23.8

POLAR GRAPH



Maximum Candela = 91.629 Located At Horizontal Angle = 337.5, Vertical Angle = 90
1 - Vertical Plane Through Horizontal Angles (337.5 - 157.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (90) (Through Max. Cd.)