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IES INDOOR REPORT PHOTOMETRIC FILENAME : ALR-7564W.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] ALR-7564W
[TOTALLUMINAIRELUMENS] 416.4
[ABSOLUTELUMENS] 416.402358891872

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	365
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	19
Total Luminaire Watts	19.58
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	1.50 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	832	686	515
55	882	719	543
65	913	741	559
75	946	763	577
85	999	799	606

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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	5.212	5.212	5.212	5.212	5.212	5.212	5.212	5.212	5.212	5.212
2.5	7.008	7.332	6.955	6.141	5.536	5.081	5.195	4.722	4.783	4.652
5.0	9.312	9.680	9.032	7.560	6.272	5.536	5.554	4.879	4.739	4.687
7.5	11.922	12.369	11.353	9.128	6.990	6.123	5.782	4.958	4.687	4.748
10.0	14.866	15.172	13.709	10.810	7.910	6.780	6.132	5.028	4.643	4.888
12.5	17.669	17.967	16.224	12.571	8.821	7.472	6.491	5.072	4.573	4.906
15.0	20.472	20.814	18.633	14.331	9.750	8.182	6.877	5.107	4.468	5.011
17.5	23.503	23.748	21.138	16.092	10.696	8.935	7.148	5.107	4.380	5.028
20.0	26.490	26.771	23.783	17.932	11.686	9.654	7.542	5.116	4.187	5.019
22.5	29.425	29.784	26.359	19.771	12.632	10.407	7.972	5.186	4.100	5.002
25.0	32.298	32.657	28.917	21.646	13.543	11.151	8.208	5.265	3.916	5.046
27.5	35.101	35.434	31.361	23.293	14.480	11.852	8.523	5.335	3.811	5.098
30.0	37.791	38.132	33.551	25.001	15.339	12.536	8.883	5.379	3.548	5.142
32.5	40.261	40.743	35.863	26.560	16.110	13.140	9.032	5.387	3.373	5.072
35.0	42.740	43.283	37.940	28.085	16.889	13.736	9.268	5.414	3.197	5.107
37.5	45.307	45.955	40.121	29.583	17.704	14.358	9.505	5.414	3.031	5.098
40.0	47.882	48.636	42.320	31.256	18.440	14.936	9.706	5.422	2.742	5.151
42.5	50.431	51.386	44.545	32.745	19.246	15.575	9.802	5.457	2.593	5.107
45.0	52.910	54.032	46.743	34.295	20.025	16.188	10.092	5.466	2.391	5.098
47.5	55.267	56.537	48.706	35.662	20.717	16.749	10.328	5.536	2.286	5.116
50.0	57.448	58.867	50.580	36.985	21.383	17.205	10.565	5.536	2.085	5.107
52.5	59.717	61.373	52.420	38.194	22.014	17.739	10.792	5.650	1.927	5.142
55.0	61.811	63.764	54.224	39.385	22.513	18.247	10.994	5.659	1.796	5.116
57.5	63.650	65.893	55.845	40.445	23.056	18.624	11.222	5.676	1.612	5.142
60.0	65.306	67.767	57.255	41.321	23.424	18.957	11.379	5.650	1.472	5.151
62.5	66.681	69.344	58.394	42.109	23.713	19.184	11.458	5.694	1.402	5.142
65.0	67.978	70.719	59.498	42.670	23.941	19.333	11.581	5.703	1.367	5.212
67.5	69.116	72.033	60.321	43.169	24.072	19.465	11.660	5.790	1.332	5.177
70.0	70.246	73.383	61.259	43.765	24.213	19.552	11.773	5.852	1.244	5.265
72.5	71.306	74.241	62.231	44.282	24.519	19.745	11.966	5.939	1.218	5.300
75.0	72.401	73.978	63.247	44.816	24.712	19.964	12.203	6.044	1.226	5.335
77.5	73.531	74.644	64.071	45.368	24.887	20.244	12.395	6.114	1.165	5.414
80.0	74.635	75.459	64.973	45.780	25.089	20.367	12.474	6.071	1.086	5.457
82.5	75.573	76.194	65.595	46.043	25.185	20.507	12.509	6.044	0.946	5.379
85.0	76.203	76.685	66.147	46.332	25.185	20.621	12.509	5.957	0.762	5.344
87.5	76.589	76.992	66.532	46.367	25.150	20.542	12.474	5.983	0.745	5.300
90.0	76.668	76.816	66.497	46.227	25.010	20.472	12.395	5.966	0.745	5.344
92.5	76.554	76.606	66.296	46.069	25.001	20.437	12.273	5.887	0.762	5.344
95.0	76.238	76.037	66.024	45.867	24.922	20.341	12.317	5.974	0.858	5.449
97.5	75.651	75.581	65.551	45.508	24.791	20.166	12.150	5.887	0.832	5.309
100.0	74.942	74.863	65.122	45.193	24.616	19.964	12.036	5.764	0.780	5.195
102.5	74.197	74.241	64.570	44.869	24.388	19.754	11.800	5.650	0.666	5.116
105.0	73.418	73.321	63.860	44.510	24.178	19.544	11.633	5.493	0.657	4.993
107.5	72.428	72.515	63.037	43.966	23.932	19.307	11.414	5.493	0.675	4.914
110.0	71.210	71.525	62.012	43.458	23.696	19.035	11.204	5.545	0.710	4.800
112.5	69.800	70.387	61.048	42.915	23.319	18.764	10.932	5.457	0.692	4.678
115.0	68.197	69.143	60.549	42.267	22.960	18.457	10.670	5.256	0.648	4.608
117.5	66.620	67.802	60.120	41.584	22.601	18.098	10.381	5.151	0.631	4.485
120.0	64.999	66.637	59.515	40.953	22.250	17.713	10.232	5.011	0.675	4.371
122.5	63.913	65.972	58.666	40.200	21.847	17.362	9.837	4.879	0.692	4.292
125.0	62.958	65.201	56.993	39.236	21.541	16.898	9.557	4.722	0.771	4.170
127.5	61.530	63.992	54.820	37.992	21.112	16.425	9.251	4.564	0.727	4.091
130.0	59.647	62.222	52.472	36.450	20.542	15.917	8.918	4.327	0.780	3.977
132.5	57.378	59.997	50.239	34.742	19.806	15.330	8.620	4.187	0.780	3.854

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135.0	54.662	57.220	48.092	33.104	19.044	14.673	8.261	4.100	0.806	3.741
137.5	51.947	54.557	45.718	31.492	18.221	14.042	7.866	3.942	0.920	3.627
140.0	49.109	51.982	44.439	29.793	17.362	13.420	7.534	3.758	0.999	3.548
142.5	46.367	49.293	41.873	28.067	16.469	12.755	7.174	3.662	1.007	3.390
145.0	43.450	46.253	39.586	26.114	15.558	12.089	6.833	3.486	1.042	3.276
147.5	40.261	42.942	37.116	24.125	14.603	11.274	6.333	3.154	1.130	3.189
150.0	36.993	39.727	34.479	22.110	13.560	10.416	5.729	2.908	0.911	2.917
152.5	33.656	36.442	31.659	20.052	12.159	9.399	5.422	2.610	0.911	2.602
155.0	29.512	30.835	28.628	17.669	11.239	8.690	4.765	2.225	0.788	2.295
157.5	27.200	29.504	24.800	15.899	10.205	7.709	4.275	1.989	0.569	1.980
160.0	23.792	25.824	22.951	13.631	8.813	6.614	3.653	1.568	0.429	1.743
162.5	20.341	22.137	19.701	11.248	7.332	5.641	3.136	1.244	0.350	1.419
165.0	17.003	18.624	16.364	8.769	6.079	4.695	2.383	0.920	0.342	0.920
167.5	13.543	14.901	13.210	6.561	4.862	3.530	1.612	0.569	0.385	0.692
170.0	10.652	11.695	10.030	4.468	3.443	2.470	0.841	0.420	0.324	0.569
172.5	6.658	7.560	5.072	2.654	1.962	1.261	0.438	0.350	0.289	0.429
175.0	2.865	3.399	2.540	1.279	0.823	0.534	0.263	0.403	0.385	0.473
177.5	0.526	0.972	0.876	0.456	0.280	0.307	0.377	0.394	0.385	0.394
180.0	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434

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	5.212	5.212	5.212	5.212	5.212	5.212	5.212
2.5	4.879	5.107	5.624	5.974	6.666	6.246	6.570
5.0	5.011	5.729	6.342	7.271	8.707	8.313	8.795
7.5	5.291	6.342	7.069	8.725	10.950	10.810	11.414
10.0	5.598	6.780	7.980	10.389	13.333	13.569	14.139
12.5	5.878	7.315	8.900	11.949	15.873	16.478	17.003
15.0	6.228	7.945	9.855	13.631	18.221	19.377	19.841
17.5	6.500	8.690	10.766	15.330	20.656	22.347	22.697
20.0	6.815	9.356	11.773	16.942	23.267	25.395	25.605
22.5	7.201	10.048	12.684	18.606	25.579	28.409	28.566
25.0	7.516	10.705	13.604	20.288	28.006	31.335	31.405
27.5	7.796	11.379	14.507	21.891	30.380	34.234	34.173
30.0	8.103	12.054	15.418	23.494	32.640	37.011	36.853
32.5	8.418	12.728	16.302	25.062	34.874	39.569	39.289
35.0	8.734	13.368	17.126	26.578	37.011	42.136	41.925
37.5	8.926	13.841	18.011	28.111	39.087	44.711	44.361
40.0	9.321	14.542	18.852	29.635	41.216	47.295	46.936
42.5	9.513	15.172	19.684	31.282	43.511	49.932	49.520
45.0	9.785	15.794	20.542	32.876	45.613	52.516	52.087
47.5	10.135	16.460	21.243	34.418	47.672	54.925	54.435
50.0	10.337	17.003	21.953	35.934	49.582	57.255	56.668
52.5	10.608	17.546	22.636	37.318	51.421	59.480	58.867
55.0	10.845	18.072	23.223	38.684	53.217	61.688	60.996
57.5	10.994	18.562	23.775	39.989	54.838	63.755	63.002
60.0	11.151	19.009	24.178	41.137	56.248	65.525	64.763
62.5	11.265	19.360	24.537	42.074	57.448	66.996	66.278
65.0	11.388	19.640	24.826	42.985	58.543	68.381	67.592
67.5	11.423	19.894	25.019	43.695	59.550	69.546	68.766
70.0	11.537	20.148	25.290	44.326	60.488	70.755	69.861
72.5	11.703	20.376	25.562	45.026	61.434	71.841	71.140
75.0	11.861	20.612	25.877	45.613	62.327	72.953	72.279
77.5	12.010	20.884	26.411	46.314	63.265	74.101	73.453
80.0	12.211	21.225	26.867	46.831	64.290	75.318	74.521

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82.5	12.290	21.488	27.209	47.269	65.034	76.317	75.432
85.0	12.360	21.663	27.384	47.549	65.569	77.097	76.230
87.5	12.282	21.751	27.428	47.593	65.884	77.605	76.711
90.0	12.395	21.707	27.445	47.479	66.077	77.815	76.930
92.5	12.317	21.611	27.340	47.208	65.875	77.745	76.799
95.0	12.238	21.497	27.340	46.813	65.577	77.447	76.317
97.5	12.150	21.348	27.147	46.314	65.122	76.957	75.748
100.0	12.027	21.094	26.849	45.727	64.605	76.387	75.091
102.5	11.817	20.787	26.525	45.061	63.825	75.704	74.434
105.0	11.519	20.437	26.245	44.317	63.107	74.819	73.619
107.5	11.335	20.034	25.798	43.572	62.310	73.864	72.524
110.0	11.125	19.789	25.439	42.793	61.267	72.655	71.263
112.5	10.924	19.395	24.896	41.855	60.041	71.219	69.870
115.0	10.617	18.974	24.432	41.076	59.226	69.738	68.346
117.5	10.381	18.449	23.880	40.130	58.657	68.223	66.707
120.0	10.109	18.028	23.337	39.315	57.921	66.769	65.052
122.5	9.881	17.599	22.750	38.456	57.036	65.761	63.773
125.0	9.636	17.135	22.312	37.510	55.363	64.544	62.730
127.5	9.399	16.609	21.804	36.205	53.270	62.993	61.294
130.0	9.110	15.969	21.112	34.725	50.983	61.031	59.629
132.5	8.813	15.426	20.393	33.227	48.837	58.464	57.501
135.0	8.427	14.866	19.605	31.746	46.717	55.617	54.803
137.5	8.147	14.235	18.703	30.257	44.501	52.814	51.991
140.0	7.858	13.631	17.897	28.733	41.855	50.116	49.293
142.5	7.525	12.939	16.986	28.242	39.306	47.383	46.559
145.0	7.166	12.229	16.136	26.841	36.853	44.343	43.861
147.5	6.588	11.616	15.234	24.878	34.146	41.119	40.620
150.0	6.263	10.608	14.323	22.881	31.396	37.957	37.449
152.5	5.738	9.995	12.991	21.077	28.855	34.436	34.330
155.0	5.133	9.058	12.150	18.659	25.141	30.897	30.091
157.5	4.573	8.068	11.003	17.178	23.100	28.023	27.787
160.0	4.003	7.017	9.662	15.041	20.113	24.747	24.344
162.5	3.513	6.036	8.340	12.755	17.126	21.392	21.024
165.0	2.777	5.142	6.973	10.389	14.209	17.774	17.695
167.5	2.137	4.205	5.475	8.112	11.362	14.542	14.182
170.0	1.332	3.119	4.389	6.114	7.805	11.554	11.327
172.5	0.736	1.866	2.987	4.336	4.292	7.315	7.350
175.0	0.622	0.858	1.515	2.733	2.076	3.557	3.548
177.5	0.596	0.604	0.675	1.375	0.937	1.183	0.736
180.0	0.434	0.434	0.434	0.434	0.434	0.434	0.434

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	4.14	N.A.	1.10
0-30	12.12	N.A.	3.30
0-40	25.92	N.A.	7.10
0-60	73.84	N.A.	20.20
0-80	144.17	N.A.	39.50
0-90	184.12	N.A.	50.50
10-90	183.40	N.A.	50.30
20-40	21.78	N.A.	6.00
20-50	42.31	N.A.	11.60
40-70	80.98	N.A.	22.20
60-80	70.33	N.A.	19.30
70-80	37.27	N.A.	10.20
80-90	39.96	N.A.	11.00
90-110	76.95	N.A.	21.10
90-120	109.66	N.A.	30.10
90-130	136.95	N.A.	37.60
90-150	170.77	N.A.	46.80
90-180	180.57	N.A.	49.50
110-180	103.61	N.A.	28.40
0-180	364.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.72
10-20	3.42
20-30	7.97
30-40	13.80
40-50	20.53
50-60	27.38
60-70	33.06
70-80	37.27
80-90	39.96
90-100	39.81
100-110	37.14
110-120	32.70
120-130	27.29
130-140	20.41
140-150	13.41
150-160	7.06
160-170	2.48
170-180	0.26

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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	69	69	69	57	57	57	50
1	92	86	80	74	84	78	73	68	65	61	57	53	49	47	41	39	37	31
2	82	72	63	56	74	65	58	52	54	48	43	43	39	35	33	30	27	22
3	73	61	52	44	66	56	47	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	46	37	30	55	42	34	27	35	28	22	27	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

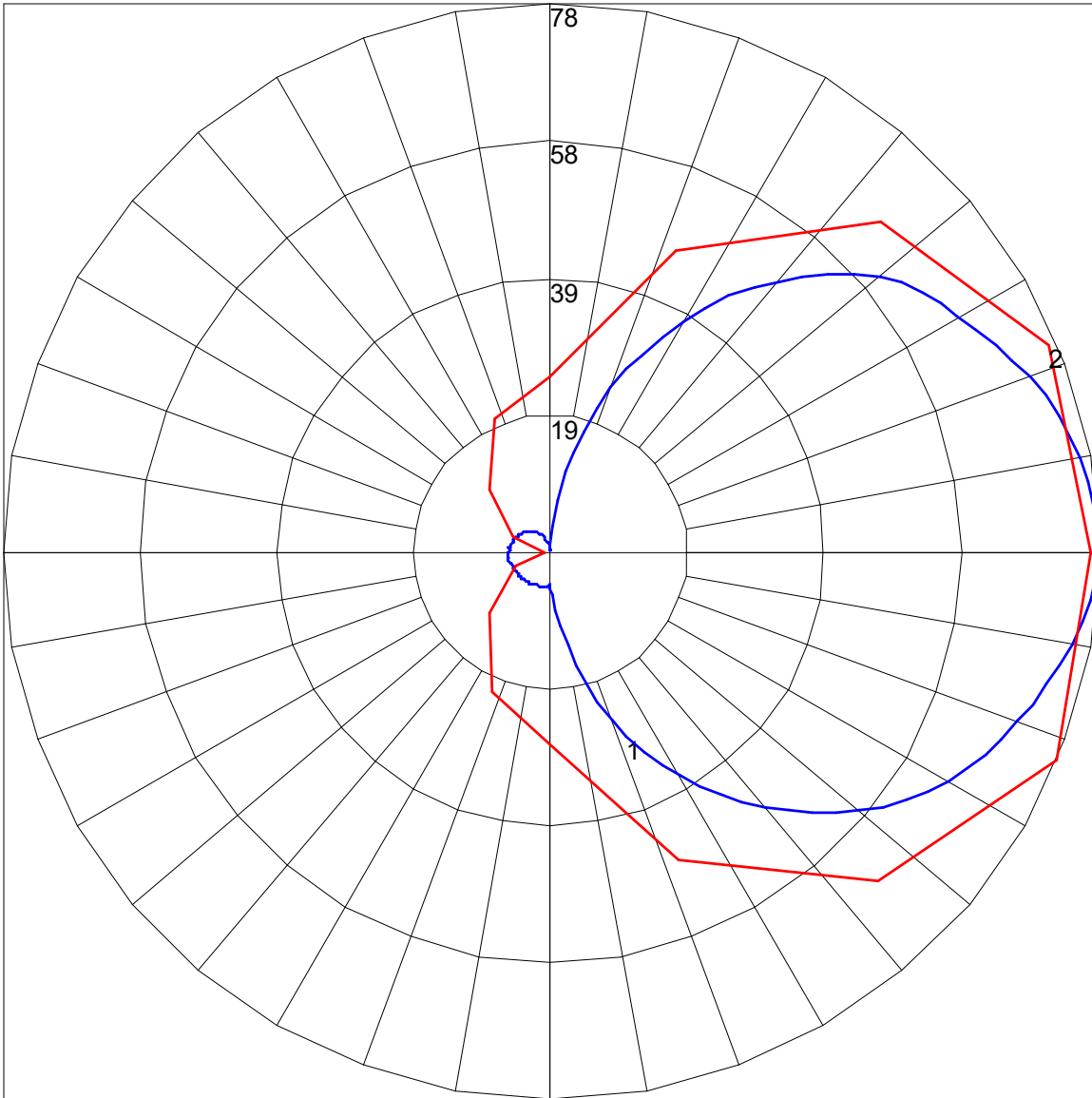
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UGR TABLE - CORRECTED

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	11.2	12.2	12.1	13.2	14.4	4.8	5.9	5.7	6.8	8.1
	3H	14.4	15.4	15.3	16.3	17.6	7.3	8.3	8.2	9.3	10.5
	4H	16.0	16.9	16.9	17.9	19.1	8.5	9.4	9.4	10.4	11.7
	6H	17.5	18.4	18.5	19.4	20.7	9.7	10.6	10.6	11.5	12.8
	8H	18.3	19.1	19.2	20.1	21.4	10.2	11.1	11.2	12.1	13.3
	12H	19.0	19.9	20.0	20.8	22.2	10.8	11.6	11.7	12.6	13.9
4H	2H	11.6	12.5	12.5	13.5	14.8	6.5	7.4	7.5	8.4	9.7
	3H	15.1	15.9	16.0	16.9	18.2	9.2	10.0	10.1	11.0	12.2
	4H	16.9	17.6	17.8	18.6	19.9	10.5	11.2	11.4	12.2	13.5
	6H	18.7	19.3	19.6	20.3	21.6	11.7	12.4	12.7	13.4	14.7
	8H	19.5	20.2	20.5	21.2	22.5	12.3	13.0	13.3	14.0	15.3
	12H	20.4	21.0	21.4	22.0	23.4	12.9	13.5	13.9	14.5	15.8
8H	4H	17.2	17.8	18.1	18.8	20.1	11.6	12.3	12.6	13.3	14.6
	6H	19.2	19.7	20.2	20.8	22.1	13.1	13.7	14.1	14.7	16.0
	8H	20.2	20.7	21.2	21.8	23.1	13.9	14.4	14.9	15.4	16.7
	12H	21.3	21.8	22.3	22.8	24.2	14.6	15.0	15.6	16.0	17.4
12H	4H	17.2	17.8	18.2	18.8	20.1	12.0	12.6	12.9	13.6	14.9
	6H	19.3	19.8	20.3	20.8	22.2	13.6	14.1	14.6	15.1	16.5
	8H	20.4	20.9	21.4	21.9	23.3	14.4	14.9	15.4	15.9	17.3

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 77.815 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.)