



IES INDOOR REPORT

PHOTOMETRIC FILENAME : OSA6S-L10-835-AC-XX-XXX-XXX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTLAB] Intertek
 [ISSUEDATE] 18 OCT 2021
 [MANUFAC] WILLIAMS OUTDOOR
 [LUMCAT] OSA6S-L10-835-AC-xx-xxx-xx-DIM-UNV
 [LUMINAIRE] LED 835cct

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	956
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	11
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.02
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	0.02
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.50 ft
Luminous Width (90-270)	0.50 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8309	9149	7723
55	12874	14394	12322
65	23568	24807	22948
75	23863	25041	22745
85	24758	25027	23412

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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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	0.000	0.000	0.000	0.091	6.725	8.179	1.727	5.271	15.812	5.271
7.5	21.901	13.268	4.453	15.085	36.168	27.262	12.904	38.167	55.070	38.167
10.0	60.068	36.441	13.995	41.439	65.430	43.802	19.811	56.706	85.786	56.706
12.5	92.874	51.708	16.357	54.979	81.242	51.617	20.629	64.612	97.599	64.612
15.0	101.234	60.886	17.993	61.795	85.786	58.523	22.083	67.883	88.603	67.883
17.5	101.961	70.610	20.265	69.792	82.514	65.611	24.082	74.881	87.058	74.881
20.0	94.055	77.789	23.355	77.879	81.151	73.154	28.080	79.515	83.059	79.515
22.5	88.512	84.877	27.808	81.333	81.696	80.242	34.896	83.514	81.514	83.514
25.0	88.694	91.965	35.986	86.240	81.424	87.421	45.437	88.694	83.059	88.694
27.5	89.330	96.872	46.891	90.875	85.695	95.327	58.705	94.691	87.149	94.691
30.0	92.147	103.597	62.249	101.961	98.690	108.777	76.607	106.596	98.781	106.596
32.5	108.322	120.681	86.876	119.227	117.319	126.043	102.688	123.953	115.774	123.953
35.0	127.043	139.129	118.228	137.402	132.859	138.038	125.498	136.584	129.042	136.584
37.5	140.583	152.578	141.855	146.581	136.312	141.673	137.857	140.946	132.586	140.946
40.0	145.399	156.304	150.852	145.854	132.404	138.947	141.673	138.947	128.678	138.947
42.5	140.219	151.397	150.670	141.583	128.042	136.675	143.491	136.039	124.952	136.039
45.0	136.584	148.398	150.397	138.947	126.952	137.130	146.762	136.857	125.589	136.857
47.5	139.311	149.489	152.669	140.038	128.042	140.492	152.851	139.492	127.406	139.492
50.0	147.308	156.304	160.939	146.035	135.130	149.307	163.211	146.217	134.585	146.217
52.5	159.030	168.390	173.752	157.213	146.944	161.938	177.296	158.122	146.308	158.122
55.0	171.662	183.294	191.927	173.298	164.301	179.568	195.744	174.479	162.665	174.479
57.5	188.110	202.105	214.191	192.381	185.475	197.198	215.645	192.654	183.385	192.654
60.0	205.104	216.463	232.730	209.193	205.467	212.101	230.276	207.830	199.833	207.830
62.5	220.916	229.731	244.816	222.370	220.643	222.097	238.727	221.916	215.463	221.916
65.0	231.548	238.273	243.725	228.459	225.460	223.733	237.183	228.368	223.642	228.368
67.5	225.823	231.003	228.913	222.006	216.009	214.282	228.277	219.280	212.192	219.280
70.0	205.467	212.374	209.738	203.922	193.654	194.017	209.375	197.652	189.201	197.652
72.5	176.478	185.657	184.112	177.114	165.483	168.209	184.748	170.571	163.392	170.571
75.0	143.582	153.033	150.670	147.217	136.857	139.492	150.579	140.129	133.676	140.129
77.5	113.684	121.317	113.502	117.955	109.958	112.412	117.319	111.140	105.960	111.140
80.0	88.603	94.237	85.786	92.419	85.331	87.512	89.875	86.513	82.332	86.513
82.5	67.883	71.973	65.793	71.609	64.067	66.338	67.702	64.794	60.068	64.794
85.0	50.163	53.707	50.708	54.070	47.437	48.981	50.435	48.163	44.801	48.163
87.5	37.077	39.167	38.167	39.712	34.441	35.532	36.804	34.896	31.897	34.896
90.0	24.809	26.899	27.081	27.262	23.446	24.718	25.808	24.173	21.083	24.173
92.5	16.357	18.811	19.992	19.356	17.266	19.720	20.810	19.720	16.721	19.720
95.0	16.357	19.084	20.356	19.720	17.630	20.356	21.537	20.447	17.630	20.447
97.5	17.902	20.810	22.355	21.446	19.175	22.264	23.446	22.446	19.629	22.446
100.0	19.902	22.810	24.173	23.537	21.174	24.173	24.809	24.173	21.719	24.173
102.5	21.628	24.082	24.990	24.627	22.173	24.718	25.445	24.900	22.719	24.900
105.0	21.901	24.536	25.445	24.900	22.628	25.081	26.081	25.445	23.718	25.445
107.5	22.537	24.900	25.808	25.172	23.173	25.172	26.535	25.808	24.627	25.808
110.0	23.082	24.900	25.990	25.172	23.537	25.081	26.808	25.899	24.990	25.899
112.5	22.900	24.445	25.899	24.445	22.355	23.991	25.990	24.627	23.173	24.627
115.0	21.356	23.627	25.081	23.900	21.446	23.809	24.990	24.536	22.991	24.536
117.5	21.174	23.446	23.991	23.718	21.810	23.264	23.900	23.627	22.719	23.627
120.0	20.447	22.355	23.082	22.446	20.629	22.173	23.082	22.719	28.080	22.719
122.5	19.175	21.356	22.446	21.265	19.811	21.265	22.446	21.537	48.618	21.537
125.0	18.175	20.538	21.719	20.447	18.266	20.538	21.810	20.629	20.174	20.629
127.5	17.539	19.902	21.083	19.720	17.539	19.811	21.083	19.811	17.539	19.811
130.0	16.903	19.084	20.265	18.902	16.903	19.084	20.265	19.084	16.812	19.084
132.5	16.267	18.266	19.447	18.175	16.085	18.266	19.356	18.175	16.085	18.175

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CANDELA TABULATION - (Cont.)

135.0	15.358	17.357	18.538	17.266	15.449	17.357	18.448	17.266	15.267	17.266
137.5	14.631	16.448	17.539	16.357	14.722	16.357	17.448	16.267	14.176	16.267
140.0	13.904	15.358	16.448	15.358	13.631	15.267	16.357	15.176	13.177	15.176
142.5	12.904	14.358	15.358	14.267	12.632	14.176	15.267	14.086	12.359	14.086
145.0	11.814	13.177	14.086	13.177	11.723	13.086	14.176	12.995	11.359	12.995
147.5	10.814	11.995	12.904	12.086	10.632	11.905	12.904	11.814	10.360	11.814
150.0	9.542	10.814	11.632	10.905	9.633	10.723	11.632	10.723	9.542	10.723
152.5	8.542	9.633	10.451	9.724	8.724	9.633	10.269	9.542	8.451	9.542
155.0	7.543	8.451	9.087	8.542	7.633	8.360	8.997	8.360	7.270	8.360
157.5	6.543	7.270	7.815	7.270	6.634	7.179	7.633	7.179	6.270	7.179
160.0	5.543	5.998	6.452	6.089	5.543	6.089	6.361	6.089	5.180	6.089
162.5	4.544	4.907	5.180	4.907	4.453	4.907	5.089	4.907	4.271	4.907
165.0	3.544	3.817	3.908	3.817	3.362	3.726	3.908	3.726	3.362	3.726
167.5	2.363	2.726	2.817	2.726	2.544	2.726	2.726	2.726	2.454	2.726
170.0	1.545	1.817	1.817	1.727	1.727	1.727	1.817	1.817	1.454	1.817
172.5	0.818	1.000	1.000	1.000	0.909	1.000	0.909	1.000	0.727	1.000
175.0	0.182	0.273	0.273	0.363	0.273	0.363	0.273	0.273	0.091	0.273
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5.0	1.727	8.179	6.725	0.091	0.000	0.000	0.000
7.5	12.904	27.262	36.168	15.085	4.453	13.268	21.901
10.0	19.811	43.802	65.430	41.439	13.995	36.441	60.068
12.5	20.629	51.617	81.242	54.979	16.357	51.708	92.874
15.0	22.083	58.523	85.786	61.795	17.993	60.886	101.234
17.5	24.082	65.611	82.514	69.792	20.265	70.610	101.961
20.0	28.080	73.154	81.151	77.879	23.355	77.789	94.055
22.5	34.896	80.242	81.696	81.333	27.808	84.877	88.512
25.0	45.437	87.421	81.424	86.240	35.986	91.965	88.694
27.5	58.705	95.327	85.695	90.875	46.891	96.872	89.330
30.0	76.607	108.777	98.690	101.961	62.249	103.597	92.147
32.5	102.688	126.043	117.319	119.227	86.876	120.681	108.322
35.0	125.498	138.038	132.859	137.402	118.228	139.129	127.043
37.5	137.857	141.673	136.312	146.581	141.855	152.578	140.583
40.0	141.673	138.947	132.404	145.854	150.852	156.304	145.399
42.5	143.491	136.675	128.042	141.583	150.670	151.397	140.219
45.0	146.762	137.130	126.952	138.947	150.397	148.398	136.584
47.5	152.851	140.492	128.042	140.038	152.669	149.489	139.311
50.0	163.211	149.307	135.130	146.035	160.939	156.304	147.308
52.5	177.296	161.938	146.944	157.213	173.752	168.390	159.030
55.0	195.744	179.568	164.301	173.298	191.927	183.294	171.662
57.5	215.645	197.198	185.475	192.381	214.191	202.105	188.110
60.0	230.276	212.101	205.467	209.193	232.730	216.463	205.104
62.5	238.727	222.097	220.643	222.370	244.816	229.731	220.916
65.0	237.183	223.733	225.460	228.459	243.725	238.273	231.548
67.5	228.277	214.282	216.009	222.006	228.913	231.003	225.823
70.0	209.375	194.017	193.654	203.922	209.738	212.374	205.467
72.5	184.748	168.209	165.483	177.114	184.112	185.657	176.478
75.0	150.579	139.492	136.857	147.217	150.670	153.033	143.582
77.5	117.319	112.412	109.958	117.955	113.502	121.317	113.684
80.0	89.875	87.512	85.331	92.419	85.786	94.237	88.603

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CANDELA TABULATION - (Cont.)

82.5	67.702	66.338	64.067	71.609	65.793	71.973	67.883
85.0	50.435	48.981	47.437	54.070	50.708	53.707	50.163
87.5	36.804	35.532	34.441	39.712	38.167	39.167	37.077
90.0	25.808	24.718	23.446	27.262	27.081	26.899	24.809
92.5	20.810	19.720	17.266	19.356	19.992	18.811	16.357
95.0	21.537	20.356	17.630	19.720	20.356	19.084	16.357
97.5	23.446	22.264	19.175	21.446	22.355	20.810	17.902
100.0	24.809	24.173	21.174	23.537	24.173	22.810	19.902
102.5	25.445	24.718	22.173	24.627	24.990	24.082	21.628
105.0	26.081	25.081	22.628	24.900	25.445	24.536	21.901
107.5	26.535	25.172	23.173	25.172	25.808	24.900	22.537
110.0	26.808	25.081	23.537	25.172	25.990	24.900	23.082
112.5	25.990	23.991	22.355	24.445	25.899	24.445	22.900
115.0	24.990	23.809	21.446	23.900	25.081	23.627	21.356
117.5	23.900	23.264	21.810	23.718	23.991	23.446	21.174
120.0	23.082	22.173	20.629	22.446	23.082	22.355	20.447
122.5	22.446	21.265	19.811	21.265	22.446	21.356	19.175
125.0	21.810	20.538	18.266	20.447	21.719	20.538	18.175
127.5	21.083	19.811	17.539	19.720	21.083	19.902	17.539
130.0	20.265	19.084	16.903	18.902	20.265	19.084	16.903
132.5	19.356	18.266	16.085	18.175	19.447	18.266	16.267
135.0	18.448	17.357	15.449	17.266	18.538	17.357	15.358
137.5	17.448	16.357	14.722	16.357	17.539	16.448	14.631
140.0	16.357	15.267	13.631	15.358	16.448	15.358	13.904
142.5	15.267	14.176	12.632	14.267	15.358	14.358	12.904
145.0	14.176	13.086	11.723	13.177	14.086	13.177	11.814
147.5	12.904	11.905	10.632	12.086	12.904	11.995	10.814
150.0	11.632	10.723	9.633	10.905	11.632	10.814	9.542
152.5	10.269	9.633	8.724	9.724	10.451	9.633	8.542
155.0	8.997	8.360	7.633	8.542	9.087	8.451	7.543
157.5	7.633	7.179	6.634	7.270	7.815	7.270	6.543
160.0	6.361	6.089	5.543	6.089	6.452	5.998	5.543
162.5	5.089	4.907	4.453	4.907	5.180	4.907	4.544
165.0	3.908	3.726	3.362	3.817	3.908	3.817	3.544
167.5	2.726	2.726	2.544	2.726	2.817	2.726	2.363
170.0	1.817	1.727	1.727	1.727	1.817	1.817	1.545
172.5	0.909	1.000	0.909	1.000	1.000	1.000	0.818
175.0	0.273	0.363	0.273	0.363	0.273	0.273	0.182
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	18.50	N.A.	1.90
0-30	54.46	N.A.	5.70
0-40	134.54	N.A.	14.10
0-60	406.88	N.A.	42.60
0-80	780.48	N.A.	81.70
0-90	837.85	N.A.	87.70
10-90	836.02	N.A.	87.50
20-40	116.04	N.A.	12.10
20-50	226.06	N.A.	23.70
40-70	493.04	N.A.	51.60
60-80	373.60	N.A.	39.10
70-80	152.89	N.A.	16.00
80-90	57.37	N.A.	6.00
90-110	48.85	N.A.	5.10
90-120	72.47	N.A.	7.60
90-130	91.28	N.A.	9.60
90-150	112.74	N.A.	11.80
90-180	117.88	N.A.	12.30
110-180	69.03	N.A.	7.20
0-180	955.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1.83
10-20	16.66
20-30	35.96
30-40	80.08
40-50	110.02
50-60	162.32
60-70	220.71
70-80	152.89
80-90	57.37
90-100	22.95
100-110	25.90
110-120	23.63
120-130	18.81
130-140	13.26
140-150	8.20
150-160	3.93
160-170	1.13
170-180	0.08

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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	54	54	54	54	52	52	52	52	49	49	49	45	45	45	42	42	42	41
1	47	44	41	39	45	42	40	37	39	37	35	36	35	33	34	32	31	29
2	41	36	32	28	39	35	31	27	32	29	26	29	27	24	27	25	23	21
3	36	30	25	21	35	29	24	21	26	23	19	24	21	18	22	20	17	16
4	33	26	20	16	31	24	20	16	22	18	15	21	17	14	19	16	13	12
5	29	22	17	13	28	21	16	13	19	15	12	18	14	11	16	13	11	9
6	27	19	14	11	25	18	14	10	17	13	10	16	12	9	14	11	9	7
7	24	17	12	9	23	16	12	9	15	11	8	14	10	8	13	10	7	6
8	22	15	11	8	21	15	10	7	13	10	7	12	9	6	11	8	6	5
9	21	14	9	6	20	13	9	6	12	8	6	11	8	6	10	7	5	4
10	19	12	8	6	18	12	8	5	11	8	5	10	7	5	9	7	5	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

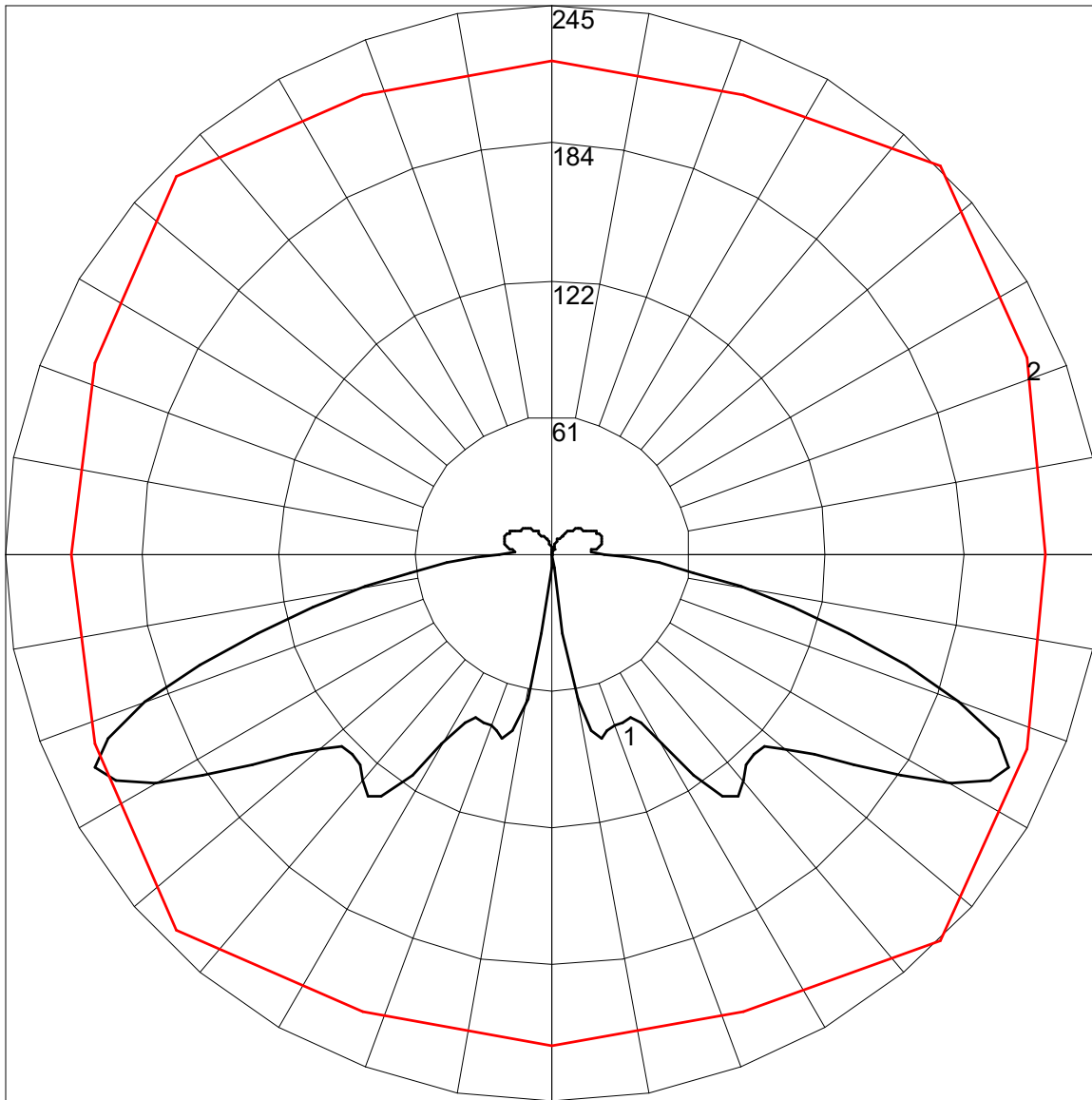
X=2H	Y=2H	24.6	26.3	25.1	26.8	27.4	24.4	26.0	24.9	26.6	27.2
	3H	28.6	30.2	29.1	30.7	31.3	28.3	29.8	28.8	30.4	31.0
	4H	29.8	31.2	30.3	31.8	32.4	29.4	30.9	29.9	31.4	32.1
	6H	30.5	31.9	31.1	32.5	33.1	30.2	31.6	30.7	32.1	32.8
	8H	30.8	32.1	31.4	32.7	33.4	30.4	31.8	31.0	32.4	33.0
	12H	31.0	32.3	31.6	32.9	33.6	30.7	32.0	31.3	32.6	33.3

UGR Viewed Endwise

4H	2H	26.2	27.7	26.8	28.3	28.9	26.0	27.5	26.6	28.1	28.7
	3H	30.0	31.3	30.5	31.9	32.5	29.7	31.0	30.2	31.6	32.2
	4H	31.2	32.4	31.8	33.0	33.7	30.8	32.0	31.4	32.6	33.3
	6H	32.0	33.1	32.6	33.7	34.4	31.7	32.8	32.3	33.4	34.1
	8H	32.4	33.4	33.0	34.0	34.7	32.0	33.1	32.7	33.7	34.4
	12H	32.7	33.6	33.3	34.3	35.0	32.4	33.3	33.0	33.9	34.6
8H	4H	31.6	32.6	32.3	33.3	34.0	31.4	32.4	32.0	33.0	33.7
	6H	32.7	33.5	33.3	34.2	34.9	32.4	33.2	33.0	33.9	34.6
	8H	33.1	33.9	33.8	34.5	35.3	32.8	33.6	33.5	34.3	35.0
	12H	33.6	34.2	34.2	34.9	35.7	33.3	33.9	33.9	34.6	35.4
12H	4H	31.7	32.6	32.3	33.3	34.0	31.4	32.4	32.1	33.0	33.7
	6H	32.8	33.5	33.5	34.2	35.0	32.5	33.3	33.2	33.9	34.7
	8H	33.3	34.0	34.0	34.6	35.4	33.0	33.7	33.7	34.4	35.2

Maximum UGR = 35.7

POLAR GRAPH



Maximum Candela = 244.816 Located At Horizontal Angle = 45, Vertical Angle = 62.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (62.5) (Through Max. Cd.)