



IES INDOOR REPORT

PHOTOMETRIC FILENAME : OSA6S-L15-835-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-L15-835-AC-xx-xxx-xx-DIM-UNV
 [LUMINAIRE] LED 835cct

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1483
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	18.1
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	12889	14193	11980
55	19971	22328	19114
65	36560	38482	35598
75	37018	38845	35284
85	38405	38823	36318

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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	0.141	10.432	12.687	2.678	8.176	24.529	8.176
7.5	33.974	20.582	6.908	23.401	56.106	42.291	20.018	59.207	85.428	59.207
10.0	93.181	56.529	21.709	64.282	101.498	67.947	30.731	87.965	133.075	87.965
12.5	144.071	80.212	25.375	85.287	126.027	80.071	32.000	100.229	151.401	100.229
15.0	157.040	94.450	27.912	95.859	133.075	90.784	34.256	105.304	137.445	105.304
17.5	158.168	109.533	31.436	108.265	128.000	101.780	37.357	116.159	135.049	116.159
20.0	145.904	120.670	36.229	120.811	125.886	113.481	43.560	123.348	128.846	123.348
22.5	137.304	131.666	43.137	126.168	126.732	124.476	54.132	129.551	126.450	129.551
25.0	137.586	142.661	55.824	133.780	126.309	135.613	70.485	137.586	128.846	137.586
27.5	138.573	150.274	72.740	140.970	132.934	147.877	91.066	146.890	135.190	146.890
30.0	142.943	160.705	96.564	158.168	153.093	168.741	118.837	165.357	153.234	165.357
32.5	168.036	187.208	134.767	184.952	181.992	195.525	159.296	192.283	179.595	192.283
35.0	197.075	215.824	183.401	213.146	206.098	214.133	194.679	211.877	200.177	211.877
37.5	218.080	236.688	220.054	227.384	211.454	219.772	213.851	218.644	205.675	218.644
40.0	225.551	242.468	234.010	226.256	205.393	215.543	219.772	215.543	199.613	215.543
42.5	217.516	234.855	233.728	219.631	198.626	212.018	222.591	211.031	193.833	211.031
45.0	211.877	230.203	233.305	215.543	196.935	212.723	227.666	212.300	194.820	212.300
47.5	216.106	231.895	236.829	217.234	198.626	217.939	237.111	216.388	197.639	216.388
50.0	228.512	242.468	249.657	226.538	209.622	231.613	253.181	226.820	208.776	226.820
52.5	246.697	261.217	269.534	243.877	227.948	251.208	275.032	245.287	226.961	245.287
55.0	266.292	284.336	297.728	268.829	254.873	278.556	303.649	270.662	252.336	270.662
57.5	291.807	313.516	332.265	298.433	287.719	305.904	334.521	298.856	284.477	298.856
60.0	318.168	335.790	361.023	324.512	318.732	329.023	357.217	322.397	309.992	322.397
62.5	342.697	356.371	379.772	344.953	342.274	344.530	370.327	344.248	334.239	344.248
65.0	359.191	369.622	378.080	354.398	349.746	347.067	367.931	354.257	346.926	354.257
67.5	350.309	358.345	355.102	344.389	335.085	332.406	354.116	340.160	329.164	340.160
70.0	318.732	329.446	325.358	316.336	300.406	300.970	324.794	306.609	293.499	306.609
72.5	273.763	288.001	285.604	274.750	256.706	260.935	286.591	264.600	253.463	264.600
75.0	222.732	237.393	233.728	228.371	212.300	216.388	233.587	217.375	207.366	217.375
77.5	176.353	188.194	176.071	182.979	170.573	174.379	181.992	172.406	164.371	172.406
80.0	137.445	146.185	133.075	143.366	132.370	135.754	139.419	134.203	127.718	134.203
82.5	105.304	111.648	102.062	111.084	99.384	102.908	105.022	100.511	93.181	100.511
85.0	77.815	83.313	78.661	83.877	73.586	75.983	78.238	74.714	69.498	74.714
87.5	57.516	60.758	59.207	61.604	53.427	55.119	57.093	54.132	49.480	54.132
90.0	38.485	41.727	42.009	42.291	36.370	38.344	40.035	37.498	32.705	37.498
92.5	25.375	29.181	31.013	30.027	26.784	30.590	32.282	30.590	25.938	30.590
95.0	25.375	29.604	31.577	30.590	27.348	31.577	33.410	31.718	27.348	31.718
97.5	27.771	32.282	34.679	33.269	29.745	34.538	36.370	34.819	30.449	34.819
100.0	30.872	35.383	37.498	36.511	32.846	37.498	38.485	37.498	33.692	37.498
102.5	33.551	37.357	38.767	38.203	34.397	38.344	39.471	38.626	35.242	38.626
105.0	33.974	38.062	39.471	38.626	35.101	38.908	40.458	39.471	36.793	39.471
107.5	34.960	38.626	40.035	39.049	35.947	39.049	41.163	40.035	38.203	40.035
110.0	35.806	38.626	40.317	39.049	36.511	38.908	41.586	40.176	38.767	40.176
112.5	35.524	37.921	40.176	37.921	34.679	37.216	40.317	38.203	35.947	38.203
115.0	33.128	36.652	38.908	37.075	33.269	36.934	38.767	38.062	35.665	38.062
117.5	32.846	36.370	37.216	36.793	33.833	36.088	37.075	36.652	35.242	36.652
120.0	31.718	34.679	35.806	34.819	32.000	34.397	35.806	35.242	43.560	35.242
122.5	29.745	33.128	34.819	32.987	30.731	32.987	34.819	33.410	75.419	33.410
125.0	28.194	31.859	33.692	31.718	28.335	31.859	33.833	32.000	31.295	32.000
127.5	27.207	30.872	32.705	30.590	27.207	30.731	32.705	30.731	27.207	30.731
130.0	26.220	29.604	31.436	29.322	26.220	29.604	31.436	29.604	26.079	29.604
132.5	25.234	28.335	30.167	28.194	24.952	28.335	30.027	28.194	24.952	28.194

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CANDELA TABULATION - (Cont.)

135.0	23.824	26.925	28.758	26.784	23.965	26.925	28.617	26.784	23.683	26.784
137.5	22.696	25.515	27.207	25.375	22.837	25.375	27.066	25.234	21.991	25.234
140.0	21.568	23.824	25.515	23.824	21.145	23.683	25.375	23.542	20.441	23.542
142.5	20.018	22.273	23.824	22.132	19.595	21.991	23.683	21.850	19.172	21.850
145.0	18.326	20.441	21.850	20.441	18.185	20.300	21.991	20.159	17.621	20.159
147.5	16.775	18.608	20.018	18.749	16.493	18.467	20.018	18.326	16.071	18.326
150.0	14.802	16.775	18.044	16.916	14.943	16.634	18.044	16.634	14.802	16.634
152.5	13.251	14.943	16.212	15.084	13.533	14.943	15.930	14.802	13.110	14.802
155.0	11.700	13.110	14.097	13.251	11.841	12.969	13.956	12.969	11.278	12.969
157.5	10.150	11.278	12.123	11.278	10.291	11.137	11.841	11.137	9.727	11.137
160.0	8.599	9.304	10.009	9.445	8.599	9.445	9.868	9.445	8.035	9.445
162.5	7.048	7.612	8.035	7.612	6.908	7.612	7.894	7.612	6.626	7.612
165.0	5.498	5.921	6.062	5.921	5.216	5.780	6.062	5.780	5.216	5.780
167.5	3.665	4.229	4.370	4.229	3.947	4.229	4.229	4.229	3.806	4.229
170.0	2.396	2.819	2.819	2.678	2.678	2.678	2.819	2.819	2.256	2.819
172.5	1.269	1.551	1.551	1.551	1.410	1.551	1.410	1.551	1.128	1.551
175.0	0.282	0.423	0.423	0.564	0.423	0.564	0.423	0.423	0.141	0.423
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	2.678	12.687	10.432	0.141	0.000	0.000	0.000
7.5	20.018	42.291	56.106	23.401	6.908	20.582	33.974
10.0	30.731	67.947	101.498	64.282	21.709	56.529	93.181
12.5	32.000	80.071	126.027	85.287	25.375	80.212	144.071
15.0	34.256	90.784	133.075	95.859	27.912	94.450	157.040
17.5	37.357	101.780	128.000	108.265	31.436	109.533	158.168
20.0	43.560	113.481	125.886	120.811	36.229	120.670	145.904
22.5	54.132	124.476	126.732	126.168	43.137	131.666	137.304
25.0	70.485	135.613	126.309	133.780	55.824	142.661	137.586
27.5	91.066	147.877	132.934	140.970	72.740	150.274	138.573
30.0	118.837	168.741	153.093	158.168	96.564	160.705	142.943
32.5	159.296	195.525	181.992	184.952	134.767	187.208	168.036
35.0	194.679	214.133	206.098	213.146	183.401	215.824	197.075
37.5	213.851	219.772	211.454	227.384	220.054	236.688	218.080
40.0	219.772	215.543	205.393	226.256	234.010	242.468	225.551
42.5	222.591	212.018	198.626	219.631	233.728	234.855	217.516
45.0	227.666	212.723	196.935	215.543	233.305	230.203	211.877
47.5	237.111	217.939	198.626	217.234	236.829	231.895	216.106
50.0	253.181	231.613	209.622	226.538	249.657	242.468	228.512
52.5	275.032	251.208	227.948	243.877	269.534	261.217	246.697
55.0	303.649	278.556	254.873	268.829	297.728	284.336	266.292
57.5	334.521	305.904	287.719	298.433	332.265	313.516	291.807
60.0	357.217	329.023	318.732	324.512	361.023	335.790	318.168
62.5	370.327	344.530	342.274	344.953	379.772	356.371	342.697
65.0	367.931	347.067	349.746	354.398	378.080	369.622	359.191
67.5	354.116	332.406	335.085	344.389	355.102	358.345	350.309
70.0	324.794	300.970	300.406	316.336	325.358	329.446	318.732
72.5	286.591	260.935	256.706	274.750	285.604	288.001	273.763
75.0	233.587	216.388	212.300	228.371	233.728	237.393	222.732
77.5	181.992	174.379	170.573	182.979	176.071	188.194	176.353
80.0	139.419	135.754	132.370	143.366	133.075	146.185	137.445

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CANDELA TABULATION - (Cont.)

82.5	105.022	102.908	99.384	111.084	102.062	111.648	105.304
85.0	78.238	75.983	73.586	83.877	78.661	83.313	77.815
87.5	57.093	55.119	53.427	61.604	59.207	60.758	57.516
90.0	40.035	38.344	36.370	42.291	42.009	41.727	38.485
92.5	32.282	30.590	26.784	30.027	31.013	29.181	25.375
95.0	33.410	31.577	27.348	30.590	31.577	29.604	25.375
97.5	36.370	34.538	29.745	33.269	34.679	32.282	27.771
100.0	38.485	37.498	32.846	36.511	37.498	35.383	30.872
102.5	39.471	38.344	34.397	38.203	38.767	37.357	33.551
105.0	40.458	38.908	35.101	38.626	39.471	38.062	33.974
107.5	41.163	39.049	35.947	39.049	40.035	38.626	34.960
110.0	41.586	38.908	36.511	39.049	40.317	38.626	35.806
112.5	40.317	37.216	34.679	37.921	40.176	37.921	35.524
115.0	38.767	36.934	33.269	37.075	38.908	36.652	33.128
117.5	37.075	36.088	33.833	36.793	37.216	36.370	32.846
120.0	35.806	34.397	32.000	34.819	35.806	34.679	31.718
122.5	34.819	32.987	30.731	32.987	34.819	33.128	29.745
125.0	33.833	31.859	28.335	31.718	33.692	31.859	28.194
127.5	32.705	30.731	27.207	30.590	32.705	30.872	27.207
130.0	31.436	29.604	26.220	29.322	31.436	29.604	26.220
132.5	30.027	28.335	24.952	28.194	30.167	28.335	25.234
135.0	28.617	26.925	23.965	26.784	28.758	26.925	23.824
137.5	27.066	25.375	22.837	25.375	27.207	25.515	22.696
140.0	25.375	23.683	21.145	23.824	25.515	23.824	21.568
142.5	23.683	21.991	19.595	22.132	23.824	22.273	20.018
145.0	21.991	20.300	18.185	20.441	21.850	20.441	18.326
147.5	20.018	18.467	16.493	18.749	20.018	18.608	16.775
150.0	18.044	16.634	14.943	16.916	18.044	16.775	14.802
152.5	15.930	14.943	13.533	15.084	16.212	14.943	13.251
155.0	13.956	12.969	11.841	13.251	14.097	13.110	11.700
157.5	11.841	11.137	10.291	11.278	12.123	11.278	10.150
160.0	9.868	9.445	8.599	9.445	10.009	9.304	8.599
162.5	7.894	7.612	6.908	7.612	8.035	7.612	7.048
165.0	6.062	5.780	5.216	5.921	6.062	5.921	5.498
167.5	4.229	4.229	3.947	4.229	4.370	4.229	3.665
170.0	2.819	2.678	2.678	2.678	2.819	2.819	2.396
172.5	1.410	1.551	1.410	1.551	1.551	1.551	1.269
175.0	0.423	0.564	0.423	0.564	0.423	0.423	0.282
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	28.69	N.A.	1.90
0-30	84.48	N.A.	5.70
0-40	208.71	N.A.	14.10
0-60	631.17	N.A.	42.60
0-80	1210.72	N.A.	81.70
0-90	1299.72	N.A.	87.70
10-90	1296.88	N.A.	87.50
20-40	180.02	N.A.	12.10
20-50	350.68	N.A.	23.70
40-70	764.84	N.A.	51.60
60-80	579.55	N.A.	39.10
70-80	237.17	N.A.	16.00
80-90	89.00	N.A.	6.00
90-110	75.78	N.A.	5.10
90-120	112.43	N.A.	7.60
90-130	141.60	N.A.	9.60
90-150	174.89	N.A.	11.80
90-180	182.87	N.A.	12.30
110-180	107.09	N.A.	7.20
0-180	1482.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2.84
10-20	25.85
20-30	55.79
30-40	124.23
40-50	170.67
50-60	251.79
60-70	342.38
70-80	237.17
80-90	89.00
90-100	35.59
100-110	40.18
110-120	36.65
120-130	29.17
130-140	20.57
140-150	12.72
150-160	6.10
160-170	1.76
170-180	0.12

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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	84	84	84	84	81	81	81	81	76	76	76	70	70	70	66	66	66	64
1	73	68	64	60	70	66	62	58	61	57	54	56	54	51	52	50	48	46
2	64	56	49	44	61	54	48	42	49	44	40	46	41	38	42	39	35	33
3	57	47	39	33	54	45	38	32	41	35	30	38	33	28	35	30	27	24
4	50	40	32	26	48	38	31	25	35	28	23	32	26	22	29	25	21	19
5	46	34	26	20	43	33	25	20	30	24	19	28	22	18	25	20	17	14
6	41	30	22	17	39	29	21	16	26	20	15	24	19	14	22	17	13	12
7	38	26	19	14	36	25	18	13	23	17	13	21	16	12	20	15	11	9
8	35	24	17	12	33	23	16	11	21	15	11	19	14	10	18	13	9	8
9	32	21	15	10	31	20	14	10	19	13	9	17	12	9	16	11	8	6
10	30	19	13	9	29	19	13	8	17	12	8	16	11	7	15	10	7	6

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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

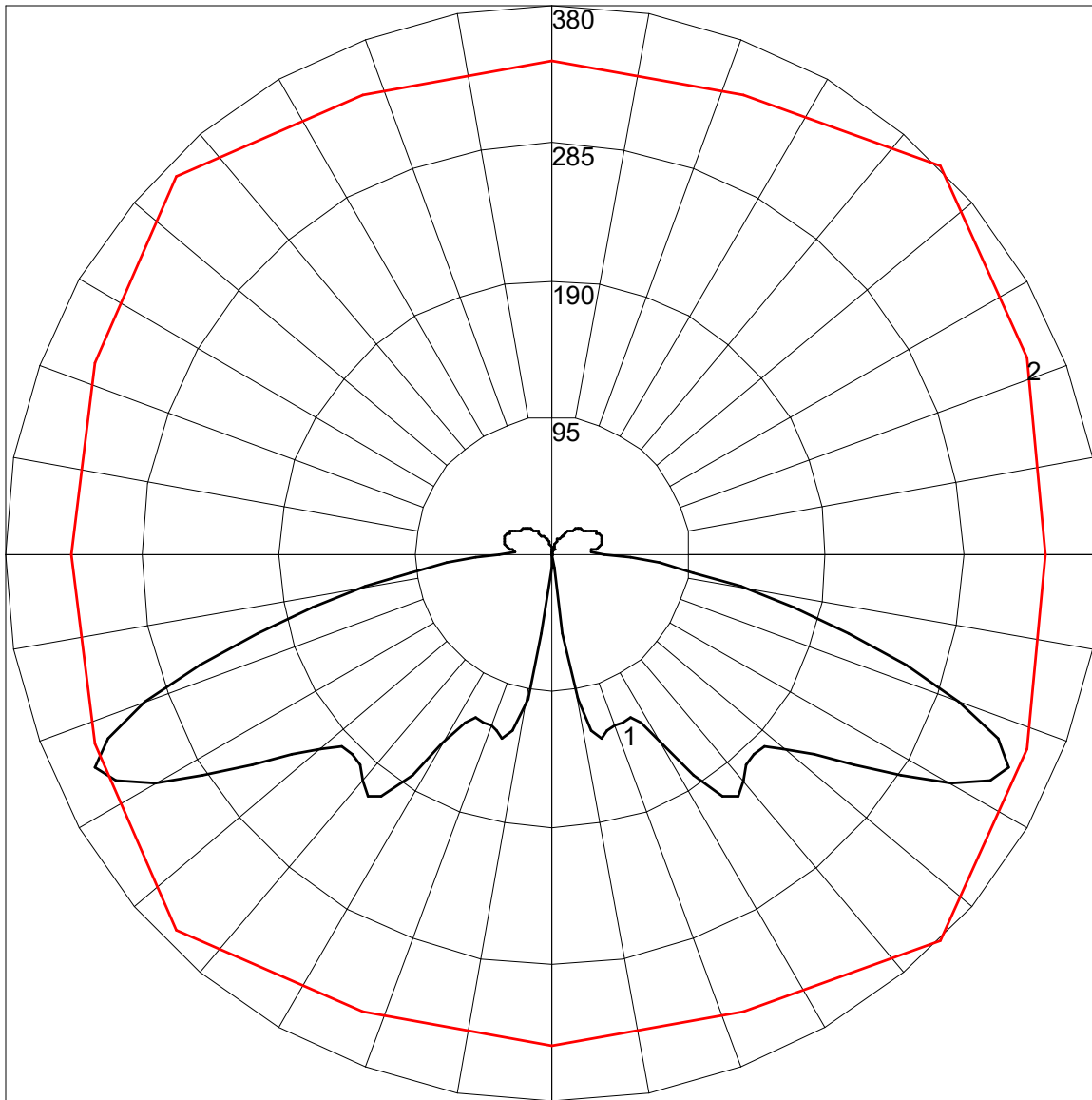
X=2H	Y=2H	24.6	26.3	25.1	26.8	27.4	24.4	26.0	24.9	26.6	27.2
	3H	28.6	30.2	29.1	30.7	31.3	28.3	29.8	28.8	30.4	31.0
	4H	29.8	31.2	30.3	31.8	32.4	29.4	30.9	29.9	31.4	32.1
	6H	30.5	31.9	31.1	32.5	33.1	30.2	31.6	30.7	32.1	32.8
	8H	30.8	32.1	31.4	32.7	33.4	30.4	31.8	31.0	32.4	33.0
	12H	31.0	32.3	31.6	32.9	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 = 379.772 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.)