



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : TALEDPLUSSA-WALL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 3694  
[TESTLAB] TUV SUD America  
[ISSUEDATE] 8/23/2019 2:56:00 PM  
[MANUFAC] BEGHELLI NORTH AMERICA  
[LUMCAT] TALEDPLUSSA-WALL  
[LUMINAIRE] 3868-1  
[\_AMBIENT] 24.6 deg C  
[\_POWERFACTOR] 0.9966  
[\_ATHD] 7.10%  
[\_CURRENT] 0.18  
[\_VOLTAGE] 120.00  
[\_STABILIZATION] 61:10.0 Stable  
[\_POWER VARIATION] 0.46 %  
[\_LIGHT VARIATION] 0.25 %  
[\_Lumens] 2216.4

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2518
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	25
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	3.24
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.90
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.08 ft
Luminous Width (90-270)	1.33 ft
Luminous Height	0.42 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20147	18193	15896
55	19477	16812	12253
65	18302	15235	8789
75	17237	13809	5666
85	16595	12467	4609

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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>
<b>0.0</b>	274.304	274.304	274.304	274.304	274.304	274.304	274.304	274.304	274.304	274.304
<b>2.5</b>	272.236	319.124	311.578	299.305	284.680	268.827	255.145	246.962	195.268	246.962
<b>5.0</b>	311.544	359.739	338.511	312.828	283.225	252.054	228.337	214.041	166.574	214.041
<b>7.5</b>	350.841	394.729	368.921	325.397	280.816	235.008	202.029	182.335	136.550	182.335
<b>10.0</b>	393.660	434.093	392.944	336.624	277.475	217.962	178.415	152.982	109.253	152.982
<b>12.5</b>	437.446	472.015	421.627	347.511	273.270	202.041	155.232	128.629	88.253	128.629
<b>15.0</b>	483.425	511.312	448.810	360.750	268.088	186.336	134.197	105.094	71.105	105.094
<b>17.5</b>	521.164	546.711	470.276	366.909	261.917	171.187	114.072	85.605	56.638	85.605
<b>20.0</b>	567.030	580.837	498.141	372.751	254.792	156.641	95.958	69.457	44.615	69.457
<b>22.5</b>	605.928	616.883	516.426	380.853	247.167	142.050	80.514	55.945	34.251	55.945
<b>25.0</b>	642.236	645.668	536.063	389.149	238.780	127.084	67.343	44.206	24.739	44.206
<b>27.5</b>	679.363	675.635	556.268	386.865	229.416	111.958	55.763	34.058	16.353	34.058
<b>30.0</b>	713.648	703.079	571.030	387.649	219.291	98.140	45.626	24.944	8.932	24.944
<b>32.5</b>	744.910	728.694	584.451	390.297	208.973	85.741	36.456	16.841	2.784	16.841
<b>35.0</b>	775.559	752.195	597.144	389.615	197.950	74.718	28.251	9.921	0.227	9.921
<b>37.5</b>	804.253	774.195	607.894	383.558	186.892	64.820	20.694	5.159	0.182	5.159
<b>40.0</b>	831.947	794.230	616.577	379.012	175.415	55.650	13.830	1.966	0.170	1.966
<b>42.5</b>	856.209	811.890	623.793	374.126	163.687	47.331	7.818	0.205	0.170	0.205
<b>45.0</b>	879.210	826.890	629.281	368.921	151.471	39.785	3.614	0.125	0.159	0.125
<b>47.5</b>	898.824	839.209	633.100	360.739	139.323	32.831	0.989	0.125	0.159	0.125
<b>50.0</b>	914.813	848.368	634.952	352.261	127.754	26.353	0.182	0.114	0.136	0.114
<b>52.5</b>	927.086	853.755	634.395	343.556	116.106	20.546	0.125	0.114	0.136	0.114
<b>55.0</b>	935.519	855.834	631.259	333.545	104.367	15.319	0.102	0.114	0.136	0.114
<b>57.5</b>	940.235	854.652	626.088	322.942	93.548	10.875	0.091	0.114	0.159	0.114
<b>60.0</b>	940.962	850.789	618.929	311.930	83.003	7.887	0.102	0.114	0.159	0.114
<b>62.5</b>	938.166	844.641	610.156	300.998	73.071	6.591	0.102	0.125	0.182	0.125
<b>65.0</b>	932.780	837.061	599.758	289.964	63.707	6.591	0.102	0.136	0.193	0.136
<b>67.5</b>	925.859	828.606	588.712	278.157	54.888	6.671	0.114	0.148	0.193	0.148
<b>70.0</b>	917.779	819.503	576.984	266.838	46.763	6.705	0.125	0.170	0.216	0.170
<b>72.5</b>	909.813	810.719	565.325	256.554	39.285	6.727	0.136	0.182	0.239	0.182
<b>75.0</b>	902.404	801.298	552.245	245.519	32.626	6.762	0.148	0.193	0.250	0.193
<b>77.5</b>	895.108	790.946	538.529	234.633	27.183	6.796	0.159	0.205	0.261	0.205
<b>80.0</b>	888.767	776.525	524.528	223.507	23.023	6.727	0.170	0.227	0.273	0.227
<b>82.5</b>	880.699	757.036	507.619	213.234	20.262	6.625	0.182	0.239	0.284	0.239
<b>85.0</b>	865.391	735.535	491.163	202.768	18.864	6.534	0.193	0.250	0.295	0.250
<b>87.5</b>	839.561	710.261	474.617	192.518	18.194	6.375	0.193	0.261	0.295	0.261
<b>90.0</b>	808.560	683.658	456.321	183.142	17.807	6.239	0.193	0.261	0.295	0.261
<b>92.5</b>	776.593	658.146	437.844	173.835	17.376	6.034	0.193	0.261	0.295	0.261
<b>95.0</b>	747.308	632.532	419.468	165.880	17.114	5.784	0.205	0.261	0.295	0.261
<b>97.5</b>	719.637	607.849	400.467	157.425	17.035	5.523	0.193	0.261	0.273	0.261
<b>100.0</b>	692.715	582.189	384.103	150.198	16.921	5.227	0.193	0.250	0.250	0.250
<b>102.5</b>	664.794	556.416	368.262	142.777	16.876	4.932	0.182	0.239	0.227	0.239
<b>105.0</b>	636.486	533.199	352.170	135.652	16.887	4.659	0.170	0.227	0.216	0.227
<b>107.5</b>	608.633	509.289	337.170	128.754	16.989	4.387	0.170	0.216	0.193	0.216
<b>110.0</b>	580.371	485.993	320.738	122.129	17.194	4.125	0.159	0.193	0.182	0.193
<b>112.5</b>	556.722	462.924	303.817	115.640	17.478	3.886	0.148	0.193	0.182	0.193
<b>115.0</b>	531.051	438.378	287.032	109.344	17.785	3.693	0.148	0.193	0.170	0.193
<b>117.5</b>	503.641	413.297	269.952	103.106	18.126	3.591	0.159	0.193	0.182	0.193
<b>120.0</b>	475.708	388.399	252.929	97.242	18.557	3.568	0.148	0.182	0.193	0.182
<b>122.5</b>	447.889	363.807	236.394	91.810	19.035	3.602	0.159	0.182	0.193	0.182
<b>125.0</b>	419.616	338.863	220.166	86.764	19.512	3.750	0.170	0.193	0.193	0.193
<b>127.5</b>	391.615	314.601	203.950	82.139	19.967	4.023	0.182	0.193	0.205	0.193
<b>130.0</b>	363.443	290.282	188.222	77.957	20.376	4.364	0.205	0.205	0.216	0.205
<b>132.5</b>	335.999	267.065	172.937	74.036	20.603	4.739	0.284	0.205	0.227	0.205

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**CANDELA TABULATION - (Cont.)**

135.0	309.214	243.985	158.005	70.275	20.603	5.182	0.500	0.216	0.239	0.216
137.5	282.964	221.712	144.005	66.616	20.376	5.637	0.761	0.205	0.227	0.205
140.0	257.451	200.052	130.822	62.388	19.955	6.080	1.125	0.239	0.216	0.239
142.5	232.507	179.688	118.890	56.934	19.410	6.489	1.568	0.364	0.307	0.364
145.0	208.348	160.221	108.208	50.183	18.694	6.818	2.057	0.534	0.523	0.534
147.5	185.483	142.095	98.344	42.638	17.853	7.057	2.523	0.795	0.636	0.795
150.0	163.483	125.959	89.003	36.069	16.978	7.228	2.932	1.102	0.636	1.102
152.5	143.936	111.629	79.003	30.762	16.057	7.364	3.296	1.409	0.795	1.409
155.0	126.640	98.776	67.923	26.512	15.057	7.466	3.602	1.659	0.920	1.659
157.5	111.140	86.344	54.104	23.160	14.069	7.478	3.864	1.727	1.068	1.727
160.0	97.208	73.480	40.467	20.342	13.000	7.421	3.977	1.852	1.102	1.852
162.5	84.548	55.218	28.865	17.364	11.921	7.318	3.921	1.830	1.091	1.830
165.0	71.014	39.456	20.285	14.716	10.819	7.125	3.727	1.977	1.250	1.977
167.5	54.354	26.478	14.410	12.534	9.671	6.807	3.432	2.227	1.477	2.227
170.0	28.762	14.296	11.614	10.500	8.512	6.330	3.193	2.500	1.716	2.500
172.5	13.875	10.171	9.353	8.807	7.489	5.852	3.171	2.727	1.955	2.727
175.0	6.932	7.216	7.500	7.193	6.432	5.307	3.568	2.921	2.239	2.921
177.5	3.364	4.955	6.341	6.102	5.807	5.046	4.148	3.739	2.568	3.739
180.0	4.546	4.546	4.546	4.546	4.546	4.546	4.546	4.546	4.546	4.546

**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	274.304	274.304	274.304	274.304	274.304	274.304	274.304
2.5	255.145	268.827	284.680	299.305	311.578	319.124	272.236
5.0	228.337	252.054	283.225	312.828	338.511	359.739	311.544
7.5	202.029	235.008	280.816	325.397	368.921	394.729	350.841
10.0	178.415	217.962	277.475	336.624	392.944	434.093	393.660
12.5	155.232	202.041	273.270	347.511	421.627	472.015	437.446
15.0	134.197	186.336	268.088	360.750	448.810	511.312	483.425
17.5	114.072	171.187	261.917	366.909	470.276	546.711	521.164
20.0	95.958	156.641	254.792	372.751	498.141	580.837	567.030
22.5	80.514	142.050	247.167	380.853	516.426	616.883	605.928
25.0	67.343	127.084	238.780	389.149	536.063	645.668	642.236
27.5	55.763	111.958	229.416	386.865	556.268	675.635	679.363
30.0	45.626	98.140	219.291	387.649	571.030	703.079	713.648
32.5	36.456	85.741	208.973	390.297	584.451	728.694	744.910
35.0	28.251	74.718	197.950	389.615	597.144	752.195	775.559
37.5	20.694	64.820	186.892	383.558	607.894	774.195	804.253
40.0	13.830	55.650	175.415	379.012	616.577	794.230	831.947
42.5	7.818	47.331	163.687	374.126	623.793	811.890	856.209
45.0	3.614	39.785	151.471	368.921	629.281	826.890	879.210
47.5	0.989	32.831	139.323	360.739	633.100	839.209	898.824
50.0	0.182	26.353	127.754	352.261	634.952	848.368	914.813
52.5	0.125	20.546	116.106	343.556	634.395	853.755	927.086
55.0	0.102	15.319	104.367	333.545	631.259	855.834	935.519
57.5	0.091	10.875	93.548	322.942	626.088	854.652	940.235
60.0	0.102	7.887	83.003	311.930	618.929	850.789	940.962
62.5	0.102	6.591	73.071	300.998	610.156	844.641	938.166
65.0	0.102	6.591	63.707	289.964	599.758	837.061	932.780
67.5	0.114	6.671	54.888	278.157	588.712	828.606	925.859
70.0	0.125	6.705	46.763	266.838	576.984	819.503	917.779
72.5	0.136	6.727	39.285	256.554	565.325	810.719	909.813
75.0	0.148	6.762	32.626	245.519	552.245	801.298	902.404
77.5	0.159	6.796	27.183	234.633	538.529	790.946	895.108
80.0	0.170	6.727	23.023	223.507	524.528	776.525	888.767

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**CANDELA TABULATION - (Cont.)**

82.5	0.182	6.625	20.262	213.234	507.619	757.036	880.699
85.0	0.193	6.534	18.864	202.768	491.163	735.535	865.391
87.5	0.193	6.375	18.194	192.518	474.617	710.261	839.561
90.0	0.193	6.239	17.807	183.142	456.321	683.658	808.560
92.5	0.193	6.034	17.376	173.835	437.844	658.146	776.593
95.0	0.205	5.784	17.114	165.880	419.468	632.532	747.308
97.5	0.193	5.523	17.035	157.425	400.467	607.849	719.637
100.0	0.193	5.227	16.921	150.198	384.103	582.189	692.715
102.5	0.182	4.932	16.876	142.777	368.262	556.416	664.794
105.0	0.170	4.659	16.887	135.652	352.170	533.199	636.486
107.5	0.170	4.387	16.989	128.754	337.170	509.289	608.633
110.0	0.159	4.125	17.194	122.129	320.738	485.993	580.371
112.5	0.148	3.886	17.478	115.640	303.817	462.924	556.722
115.0	0.148	3.693	17.785	109.344	287.032	438.378	531.051
117.5	0.159	3.591	18.126	103.106	269.952	413.297	503.641
120.0	0.148	3.568	18.557	97.242	252.929	388.399	475.708
122.5	0.159	3.602	19.035	91.810	236.394	363.807	447.889
125.0	0.170	3.750	19.512	86.764	220.166	338.863	419.616
127.5	0.182	4.023	19.967	82.139	203.950	314.601	391.615
130.0	0.205	4.364	20.376	77.957	188.222	290.282	363.443
132.5	0.284	4.739	20.603	74.036	172.937	267.065	335.999
135.0	0.500	5.182	20.603	70.275	158.005	243.985	309.214
137.5	0.761	5.637	20.376	66.616	144.005	221.712	282.964
140.0	1.125	6.080	19.955	62.388	130.822	200.052	257.451
142.5	1.568	6.489	19.410	56.934	118.890	179.688	232.507
145.0	2.057	6.818	18.694	50.183	108.208	160.221	208.348
147.5	2.523	7.057	17.853	42.638	98.344	142.095	185.483
150.0	2.932	7.228	16.978	36.069	89.003	125.959	163.483
152.5	3.296	7.364	16.057	30.762	79.003	111.629	143.936
155.0	3.602	7.466	15.057	26.512	67.923	98.776	126.640
157.5	3.864	7.478	14.069	23.160	54.104	86.344	111.140
160.0	3.977	7.421	13.000	20.342	40.467	73.480	97.208
162.5	3.921	7.318	11.921	17.364	28.865	55.218	84.548
165.0	3.727	7.125	10.819	14.716	20.285	39.456	71.014
167.5	3.432	6.807	9.671	12.534	14.410	26.478	54.354
170.0	3.193	6.330	8.512	10.500	11.614	14.296	28.762
172.5	3.171	5.852	7.489	8.807	9.353	10.171	13.875
175.0	3.568	5.307	6.432	7.193	7.500	7.216	6.932
177.5	4.148	5.046	5.807	6.102	6.341	4.955	3.364
180.0	4.546	4.546	4.546	4.546	4.546	4.546	4.546

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	107.82	N.A.	4.30
0-30	245.54	N.A.	9.70
0-40	436.82	N.A.	17.30
0-60	943.98	N.A.	37.50
0-80	1500.75	N.A.	59.60
0-90	1757.52	N.A.	69.80
10-90	1730.9	N.A.	68.70
20-40	329.00	N.A.	13.10
20-50	566.72	N.A.	22.50
40-70	787.71	N.A.	31.30
60-80	556.77	N.A.	22.10
70-80	276.22	N.A.	11.00
80-90	256.76	N.A.	10.20
90-110	400.69	N.A.	15.90
90-120	540.00	N.A.	21.40
90-130	638.96	N.A.	25.40
90-150	738.46	N.A.	29.30
90-180	760.93	N.A.	30.20
110-180	360.23	N.A.	14.30
0-180	2518.44	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	26.62
10-20	81.20
20-30	137.72
30-40	191.28
40-50	237.72
50-60	269.44
60-70	280.55
70-80	276.22
80-90	256.76
90-100	220.46
100-110	180.23
110-120	139.31
120-130	98.95
130-140	63.66
140-150	35.84
150-160	16.73
160-170	5.10
170-180	0.64

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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	97	91	85	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48
2	86	76	68	61	81	72	64	58	63	57	52	55	50	46	48	44	41	37
3	78	65	56	48	72	62	53	46	54	47	41	47	42	37	41	36	32	29
4	70	57	47	40	66	54	45	38	47	40	34	41	35	30	36	31	27	23
5	64	50	40	33	60	47	38	31	42	34	28	36	30	25	32	26	22	19
6	59	45	35	28	55	42	33	27	37	30	24	33	26	22	28	23	19	16
7	54	40	31	24	51	38	29	23	33	26	21	29	23	19	26	20	17	14
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	15	12
9	47	33	24	19	44	31	23	18	28	21	16	24	19	14	21	16	13	11
10	44	30	22	17	41	29	21	16	25	19	14	23	17	13	20	15	12	9

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : TALEDPLUSSA-WALL.IES**

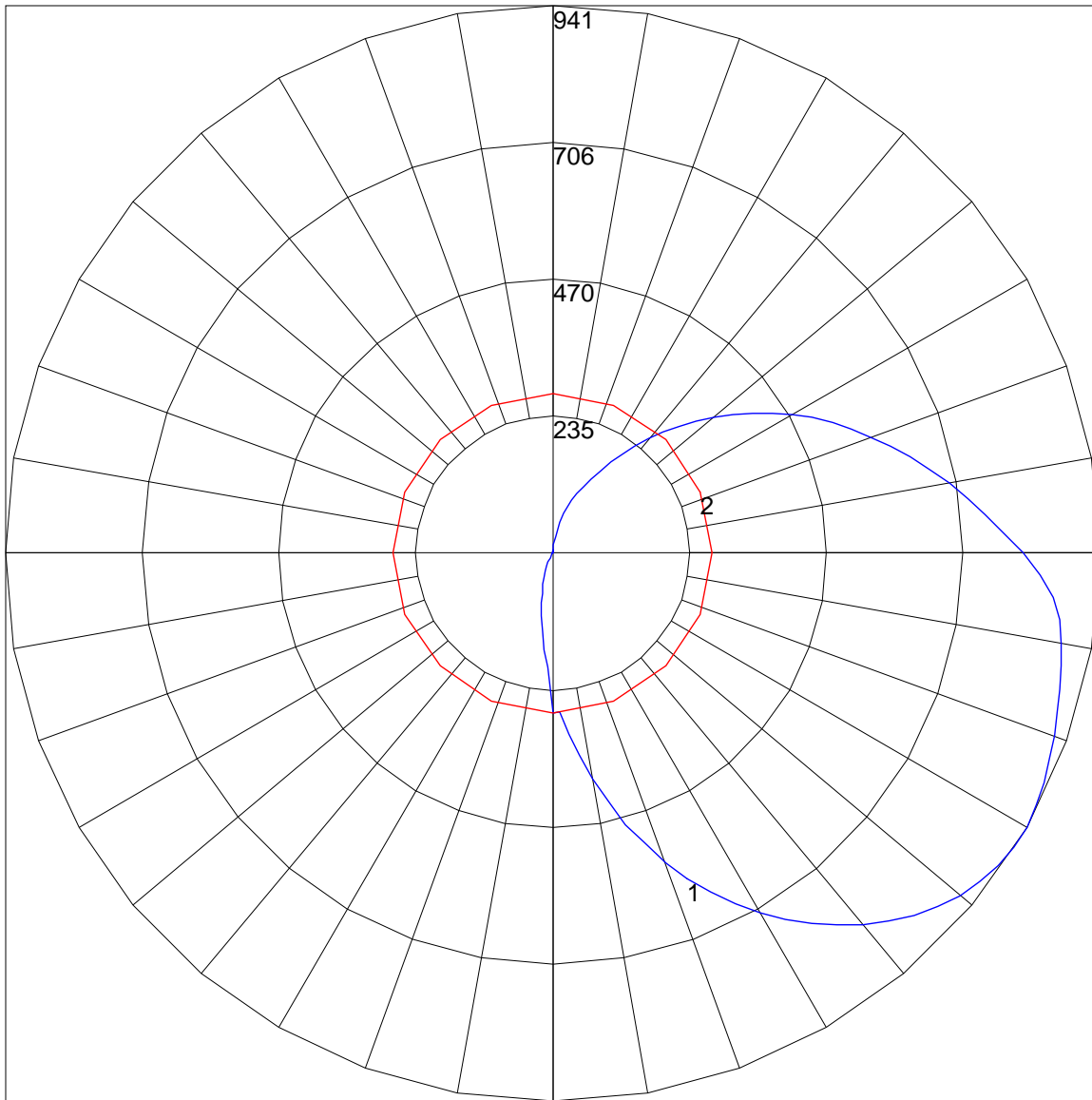
**UGR TABLE - CORRECTED**

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	23.7	25.0	24.5	25.8	26.7	13.5	14.8	14.2	15.5	16.5
	3H	26.4	27.5	27.1	28.3	29.3	14.5	15.7	15.3	16.5	17.5
	4H	27.6	28.7	28.4	29.5	30.5	14.9	16.0	15.6	16.8	17.7
	6H	28.8	29.9	29.6	30.7	31.7	15.0	16.1	15.8	16.9	17.9
	8H	29.4	30.4	30.2	31.2	32.2	15.1	16.1	15.9	16.9	17.9
	12H	30.0	30.9	30.8	31.8	32.8	15.1	16.1	15.9	16.9	17.9
4H	2H	24.2	25.3	24.9	26.1	27.0	17.1	18.2	17.9	19.0	20.0
	3H	27.1	28.0	27.8	28.9	29.9	18.5	19.5	19.3	20.3	21.3
	4H	28.5	29.4	29.3	30.3	31.3	19.0	19.9	19.8	20.7	21.7
	6H	30.0	30.8	30.8	31.6	32.7	19.2	20.1	20.1	20.9	21.9
	8H	30.7	31.5	31.5	32.3	33.3	19.3	20.1	20.1	20.9	22.0
	12H	31.4	32.1	32.2	32.9	34.0	19.4	20.1	20.2	20.9	22.0
8H	4H	28.8	29.6	29.6	30.4	31.5	21.4	22.2	22.3	23.1	24.1
	6H	30.5	31.2	31.3	32.0	33.1	22.0	22.7	22.9	23.6	24.6
	8H	31.4	32.0	32.2	32.8	33.9	22.2	22.8	23.1	23.7	24.8
	12H	32.2	32.8	33.1	33.7	34.8	22.3	22.9	23.2	23.8	24.9
12H	4H	28.8	29.5	29.7	30.4	31.4	22.2	22.9	23.0	23.8	24.8
	6H	30.6	31.2	31.4	32.0	33.1	23.0	23.6	23.9	24.5	25.6
	8H	31.5	32.1	32.4	32.9	34.0	23.4	23.9	24.2	24.8	25.9

Maximum UGR = 34.8



POLAR GRAPH



Maximum Candela = 940.962 Located At Horizontal Angle = 0, Vertical Angle = 60  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)