



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 26 September 2022

[ISSUEDATE] 2022-11-02 16:35:20

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMCAT] HZCAS100HTMOWT50120-277V_P

[LUMINAIRE] LED

[BALLAST] 100-277VAc 50/60Hz

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2080
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	20
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.09 m
Luminous Width (90-270)	0.09 m
Luminous Height	0.15 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	31586	32646	29773
55	18189	21467	22963
65	13150	15085	13501
75	4848	4766	5492
85	2692	2028	4108

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	774.124	774.124	774.124	774.124	774.124	774.124	774.124	774.124	774.124	774.124
1	772.296	761.980	753.403	757.928	762.806	765.911	772.296	775.379	786.731	793.766
2	770.678	752.357	747.502	743.946	750.254	762.156	789.780	807.628	820.972	826.939
3	794.217	773.298	749.550	742.360	746.709	760.329	795.351	827.545	857.349	855.807
4	806.527	798.137	787.622	762.597	754.735	773.001	799.282	844.896	873.412	872.598
5	807.462	787.336	778.506	782.426	767.265	774.664	814.641	855.884	862.248	876.396
6	795.726	783.350	785.255	834.789	803.124	786.257	832.906	866.223	858.989	875.658
7	768.938	789.406	841.406	969.078	965.852	844.995	833.622	871.452	865.452	874.007
8	754.493	781.215	866.003	1036.580	1070.789	921.889	793.006	838.268	909.866	903.216
9	740.709	773.001	865.826	1050.068	1071.647	919.621	797.575	805.414	903.987	925.225
10	729.754	749.164	867.544	1022.565	1045.499	891.634	784.848	755.836	903.525	935.321
11	710.398	726.759	858.769	975.783	1013.955	848.541	750.695	729.423	895.498	916.615
12	685.967	707.128	857.316	945.572	972.304	820.950	716.200	714.384	882.407	897.425
13	636.884	677.467	813.914	903.139	931.490	795.968	691.692	724.557	885.721	876.759
14	595.289	632.436	772.021	837.696	878.785	768.355	676.950	714.252	854.695	871.100
15	550.192	580.777	702.581	752.489	815.390	754.890	672.116	716.410	859.154	874.172
16	522.755	551.799	642.467	686.870	736.327	739.310	643.237	723.115	843.553	841.274
17	503.421	540.756	593.428	595.090	660.369	672.216	599.208	702.933	821.203	803.829
18	497.927	547.593	586.260	532.994	571.551	609.183	556.842	683.226	772.748	761.870
19	497.795	553.671	588.936	548.793	558.086	561.796	533.269	669.034	745.972	727.155
20	494.107	560.068	602.963	567.444	578.752	559.517	525.926	658.684	722.377	693.090
21	494.822	556.776	614.964	593.032	609.987	568.072	534.701	659.554	704.420	660.038
22	496.144	555.069	624.146	612.861	625.654	586.260	546.768	643.479	668.924	619.819
23	489.703	546.955	625.687	629.673	648.676	597.854	533.445	641.046	651.297	599.098
24	482.910	536.132	614.567	643.435	664.420	596.797	521.753	603.216	609.558	569.206
25	477.592	525.838	601.774	645.186	667.085	594.892	498.258	545.556	567.224	539.292
26	478.087	522.281	596.775	615.833	661.547	567.510	477.493	511.646	547.087	530.682
27	477.173	526.410	591.369	602.831	634.815	532.807	470.722	504.621	563.514	548.893
28	487.831	541.582	605.407	604.295	613.070	507.198	476.975	519.419	570.219	555.851
29	496.848	560.882	625.533	615.811	623.992	508.937	473.925	517.811	583.519	565.011
30	497.190	573.621	648.126	627.735	638.932	518.263	474.575	530.583	596.709	569.151
31	491.630	576.274	655.745	634.132	643.733	521.103	470.975	535.857	611.132	571.573
32	477.713	575.228	639.571	627.724	642.500	521.698	469.433	552.988	620.424	578.388
33	457.344	550.335	607.488	605.847	619.852	504.775	452.269	549.080	611.958	570.681
34	430.810	506.603	560.376	561.928	580.084	480.146	434.333	537.960	604.911	558.119
35	409.176	474.025	524.505	529.713	549.168	453.931	410.552	510.600	579.798	544.367
36	398.386	448.635	499.370	503.179	525.078	434.686	399.223	492.103	552.019	529.922
37	386.209	428.366	482.392	485.321	501.450	421.958	382.487	481.104	535.956	511.271
38	377.830	423.753	469.411	471.756	477.702	404.364	370.211	468.828	524.979	501.759
39	371.400	416.662	470.237	466.406	462.827	390.205	359.972	453.953	503.410	485.343
40	372.622	417.885	467.011	470.722	452.566	381.056	347.949	439.255	485.354	478.792
41	384.667	423.290	472.241	475.423	456.552	379.283	346.848	417.620	468.365	466.229
42	405.355	449.648	490.099	501.990	477.449	380.968	350.184	412.523	456.442	460.460
43	424.777	474.718	515.763	524.770	496.694	399.068	364.992	420.020	474.267	466.846
44	437.130	498.125	541.483	551.909	524.131	422.256	390.437	452.863	500.052	494.283
45	436.833	512.549	557.524	569.382	547.307	442.778	411.752	484.561	531.012	515.136
46	423.599	513.374	559.936	577.001	566.641	464.732	428.906	515.191	551.238	544.731
47	403.472	496.628	551.557	570.714	563.183	471.845	427.375	524.891	561.301	551.766
48	379.239	472.142	520.685	546.845	552.900	464.182	421.980	528.172	556.412	549.058
49	354.852	444.220	488.613	514.046	526.740	450.694	403.979	506.284	534.910	526.300
50	335.728	421.386	464.259	488.293	502.551	426.682	383.357	485.794	510.897	501.902
51	317.187	404.640	441.457	469.048	481.544	409.583	370.597	465.051	485.827	477.250
52	298.184	382.069	423.268	445.520	458.291	390.811	355.568	447.424	466.890	464.435
53	285.941	364.904	405.641	426.274	440.862	379.019	349.226	431.515	454.328	451.410

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

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54	270.593	344.228	389.633	410.937	429.247	371.654	337.996	420.879	445.619	443.108
55	259.120	329.882	375.562	395.633	416.574	360.566	327.140	407.579	436.513	432.517
56	246.767	309.821	359.664	383.390	404.750	344.051	313.356	392.187	425.173	409.968
57	239.313	300.188	346.518	365.004	385.603	327.757	300.716	376.663	404.673	394.367
58	230.296	290.356	335.310	358.100	367.514	306.375	287.174	353.994	378.017	378.513
59	224.857	282.208	326.579	350.437	350.129	295.376	269.690	339.725	360.269	361.491
60	220.046	279.280	321.371	344.272	335.827	274.534	253.043	319.995	336.972	343.589
61	215.972	278.476	320.248	336.212	322.516	265.847	246.569	304.460	319.653	325.951
62	212.042	275.118	317.341	327.779	316.108	255.982	234.051	292.580	308.401	311.176
63	205.193	272.949	309.513	314.512	297.765	244.114	220.409	281.977	294.683	294.870
64	197.960	271.407	294.705	301.355	288.693	232.795	208.518	266.211	276.395	282.616
65	187.126	259.561	277.199	284.487	270.857	219.209	192.113	247.879	259.021	262.666
66	174.189	238.631	254.815	259.330	249.685	200.151	173.000	226.971	240.701	238.411
67	162.056	215.873	225.529	231.727	221.532	178.120	152.103	203.487	211.821	208.805
68	153.953	199.776	205.292	205.997	193.325	157.080	131.746	174.354	179.540	178.461
69	145.343	185.849	188.491	185.111	171.833	134.289	108.850	139.265	148.426	146.620
70	135.786	172.108	173.132	167.969	150.573	112.280	100.754	116.144	128.454	126.064
71	124.325	157.003	154.702	147.897	130.248	104.087	92.733	111.399	120.053	122.068
72	110.386	137.559	135.126	124.710	112.533	96.200	84.713	108.736	114.977	117.664
73	95.867	114.636	114.097	103.437	103.895	88.313	81.031	104.320	110.650	113.634
74	81.339	101.355	102.426	96.266	98.606	84.949	78.392	101.335	107.739	110.144
75	66.809	88.305	91.058	89.192	93.321	81.960	75.689	98.385	102.851	107.018
76	60.700	75.253	79.689	82.118	88.036	78.755	73.919	95.435	99.787	103.726
77	57.982	71.813	76.014	77.769	83.939	76.370	72.832	92.310	96.783	99.197
78	55.343	68.102	71.962	73.256	79.806	72.995	71.611	91.071	93.779	94.642
79	53.363	65.692	67.792	68.689	76.337	70.586	71.077	90.660	92.188	92.176
80	51.219	62.660	62.559	63.979	72.309	67.634	69.982	88.449	89.837	88.703
81	47.687	57.587	56.454	58.101	67.735	65.059	67.246	85.275	86.656	84.878
82	44.488	53.357	50.559	53.003	63.061	61.914	62.821	80.242	81.753	78.180
83	41.736	49.542	45.678	47.002	57.297	56.630	58.252	75.093	77.158	72.112
84	38.708	43.506	40.051	40.835	51.535	51.968	54.583	70.686	72.074	66.813
85	34.764	38.064	35.832	36.501	46.935	48.914	53.042	67.410	68.245	62.083
86	31.923	34.502	31.510	31.800	43.647	46.616	47.935	61.805	62.858	57.248
87	29.007	30.737	28.788	29.793	41.417	42.943	45.261	58.844	59.280	53.696
88	27.564	29.240	28.480	28.238	37.492	40.304	42.736	55.433	55.202	50.422
89	27.042	28.223	27.027	25.467	34.303	38.042	40.735	51.544	51.215	46.116
90	25.845	26.825	25.600	24.894	33.178	35.703	36.420	46.381	45.017	40.898
91	25.335	26.864	25.613	24.822	31.495	33.383	35.103	44.345	42.504	38.108
92	25.816	27.089	25.561	23.987	29.791	32.468	34.225	43.393	41.116	37.368
93	26.497	27.321	24.480	23.033	28.612	31.733	33.291	41.667	39.643	35.963
94	24.808	25.286	23.582	22.768	27.987	31.033	32.608	40.336	38.144	35.372
95	24.416	25.053	23.449	22.338	26.818	29.628	31.800	39.000	36.725	34.434
96	24.113	24.979	23.445	22.380	26.304	28.785	30.886	37.445	35.275	33.310
97	23.982	24.869	23.452	22.591	25.870	28.235	30.117	36.365	34.166	32.242
98	23.801	24.645	23.509	22.761	25.440	27.676	29.554	35.363	33.202	31.683
99	23.712	24.541	23.592	22.869	25.153	27.249	28.897	34.425	32.220	31.145
100	23.754	24.590	23.774	23.260	25.227	27.146	28.389	33.540	31.541	30.490
101	23.957	24.666	23.967	23.727	25.278	27.140	27.932	32.812	30.873	29.923
102	24.069	24.750	24.099	24.047	25.515	27.135	27.565	32.195	30.440	29.606
103	24.168	24.868	24.394	24.142	25.496	26.894	27.202	31.646	29.935	29.302
104	24.318	25.062	24.625	24.277	25.491	26.621	26.907	30.909	29.509	29.169
105	24.514	25.358	24.910	24.459	25.559	26.587	26.667	30.281	29.149	28.553
106	24.779	25.656	25.207	24.671	25.537	26.542	26.543	29.919	28.743	27.358
107	24.927	25.849	25.473	24.975	25.592	26.502	26.275	29.294	27.677	25.779
108	24.985	25.888	25.523	25.193	25.605	26.608	25.780	28.201	26.208	25.589
109	24.877	25.586	25.323	25.141	25.684	26.610	24.502	26.315	25.825	26.169

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

110	24.641	25.362	24.952	24.832	25.549	26.450	24.394	26.225	26.072	26.497
111	24.364	25.311	24.758	24.519	25.333	26.153	24.294	26.184	26.156	26.384
112	24.116	25.267	24.828	24.471	25.294	26.019	24.163	25.831	25.672	25.869
113	23.904	25.431	25.237	24.747	25.353	26.096	23.994	25.648	25.336	25.128
114	23.936	25.654	25.870	25.378	25.706	26.138	23.782	25.665	25.135	24.719
115	24.047	25.907	26.557	26.105	26.328	26.328	23.767	25.802	25.254	24.701
116	24.281	26.251	27.053	26.557	26.856	26.734	23.804	26.123	25.776	25.155
117	24.676	26.682	27.503	26.980	27.278	27.068	23.937	26.597	26.502	25.933
118	25.022	26.999	27.877	27.383	27.608	27.485	24.104	27.159	27.194	26.692
119	25.316	27.235	28.213	27.780	27.903	27.867	24.412	27.612	27.865	27.215
120	25.472	27.392	28.441	28.098	27.990	28.156	24.739	27.943	28.176	27.549
121	25.600	27.558	28.682	28.416	28.248	28.363	25.003	28.199	28.344	27.880
122	25.709	27.858	28.872	28.766	28.471	28.484	25.281	28.436	28.690	28.146
123	25.812	28.035	28.952	29.009	28.645	28.508	25.466	28.682	28.964	28.369
124	25.779	28.203	29.028	29.140	28.623	28.422	25.554	28.912	29.126	28.715
125	25.604	28.495	29.159	29.304	28.739	28.349	25.446	28.921	29.115	28.963
126	25.411	28.556	29.301	29.324	28.671	28.069	25.146	28.778	28.982	29.112
127	25.282	28.385	29.193	29.277	28.650	27.729	24.774	28.680	29.064	29.240
128	25.217	28.255	29.080	29.066	28.583	27.501	24.600	28.606	29.150	29.085
129	25.369	28.246	29.110	29.010	28.549	27.372	24.507	28.665	29.324	29.062
130	25.375	28.242	29.202	28.950	28.593	27.301	24.430	28.627	29.128	28.805
131	25.380	28.346	29.325	29.040	28.526	27.265	24.319	28.465	28.872	28.316
132	25.386	28.493	29.360	29.045	28.450	27.357	24.144	28.405	28.707	27.986
133	25.391	28.449	29.234	28.898	28.411	27.346	24.006	28.439	28.553	28.000
134	25.398	28.226	28.863	28.581	28.347	27.330	23.982	28.507	28.694	28.137
135	25.499	28.117	28.433	28.013	28.434	27.243	24.010	28.203	28.663	28.129
136	25.628	28.050	28.353	27.743	28.376	27.038	24.112	27.855	28.650	28.022
137	25.726	28.028	28.407	27.725	28.125	26.881	24.226	27.497	28.546	28.072
138	25.887	27.952	28.328	27.780	27.790	26.777	24.279	27.318	28.478	28.020
139	26.109	28.003	28.291	27.856	27.801	26.744	24.420	27.309	28.429	28.095
140	26.265	27.976	28.219	27.772	27.906	26.799	24.492	27.305	28.341	28.140
141	26.346	27.826	28.048	27.572	27.807	26.737	24.553	27.180	28.263	28.145
142	26.276	27.622	27.757	27.343	27.518	26.566	24.441	26.842	27.938	27.937
143	26.120	27.286	27.439	27.080	27.146	26.240	24.267	26.325	27.573	27.677
144	25.888	26.948	27.117	26.826	26.700	25.924	24.155	26.088	27.279	27.453
145	25.609	26.662	26.817	26.635	26.207	25.566	23.995	25.680	26.871	27.212
146	25.213	26.365	26.360	26.384	25.658	25.108	23.567	25.196	26.422	26.875
147	24.843	25.882	25.952	26.067	25.254	24.754	23.037	24.876	26.096	26.585
148	24.654	25.338	25.502	25.723	24.870	24.203	22.441	24.383	25.700	26.208
149	24.492	24.957	25.220	25.264	24.658	23.777	22.043	24.117	25.315	25.867
150	24.321	24.978	25.088	24.866	24.716	23.505	21.874	24.063	24.942	25.588
151	23.968	24.967	24.743	24.325	24.403	23.349	22.367	23.875	24.404	25.202
152	23.526	24.551	24.309	23.717	23.800	23.099	22.570	23.673	24.099	24.599
153	23.004	23.539	23.752	23.328	23.093	22.872	22.232	22.786	23.392	24.141
154	22.474	22.615	22.834	22.655	22.343	22.387	21.476	22.168	22.707	23.186
155	21.952	21.637	21.849	21.853	21.500	21.429	20.184	21.403	21.788	22.105
156	21.345	20.666	20.776	21.007	20.584	20.426	19.351	20.459	20.778	21.140
157	20.601	19.705	19.534	19.860	19.634	19.579	18.757	19.639	19.874	20.105
158	19.394	18.576	18.375	18.525	18.507	18.866	18.292	18.750	18.870	19.066
159	18.034	17.428	17.335	17.385	17.478	18.084	17.714	17.637	17.766	17.863
160	16.895	16.423	16.341	16.300	16.437	17.140	16.740	16.790	16.709	16.569
161	15.937	15.509	15.389	15.218	15.377	16.133	15.761	16.090	15.827	15.412
162	14.935	14.528	14.379	14.143	14.445	15.286	15.045	15.368	15.111	14.419
163	13.971	13.572	13.180	13.292	13.624	14.228	14.439	14.719	14.511	13.578
164	13.094	12.734	11.902	12.557	12.868	13.071	13.841	14.157	13.772	12.916
165	12.134	11.917	10.710	11.628	11.921	11.716	13.122	13.453	12.860	12.286

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PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

166	10.261	10.317	9.519	10.307	10.513	10.386	12.123	12.503	11.906	11.607
167	8.367	8.714	8.327	8.983	9.095	8.977	10.438	11.228	10.620	10.616
168	6.472	7.111	6.951	7.659	7.677	7.510	8.739	9.561	9.328	9.623
169	4.664	5.218	5.453	6.083	6.074	6.041	7.040	7.885	8.036	8.629
170	3.101	3.594	3.869	4.451	4.536	4.572	5.299	5.937	6.273	6.792
171	2.044	2.344	2.710	3.101	3.198	3.200	3.645	4.149	4.492	5.014
172	1.264	1.558	1.852	2.165	2.254	2.103	2.446	2.841	3.132	3.562
173	0.944	1.086	1.279	1.423	1.526	1.507	1.578	1.823	2.188	2.520
174	0.890	0.913	0.983	0.991	1.059	1.103	1.072	1.186	1.451	1.628
175	0.915	0.927	0.926	0.921	0.917	0.919	0.912	0.925	0.993	1.030
176	0.933	0.945	0.943	0.937	0.929	0.915	0.917	0.926	0.928	0.921
177	0.953	0.961	0.959	0.953	0.944	0.927	0.926	0.936	0.936	0.930
178	0.974	0.979	0.975	0.968	0.956	0.939	0.935	0.947	0.946	0.941
179	0.995	0.994	0.989	0.980	0.966	0.952	0.944	0.957	0.955	0.952
180	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	774.124	774.124	774.124	774.124	774.124	774.124	774.124	774.124	774.124	774.124
1	802.552	809.389	806.593	802.772	794.008	791.641	797.168	798.027	787.061	779.706
2	834.250	832.279	806.284	815.346	805.855	805.679	809.026	808.332	806.912	804.104
3	870.671	841.098	808.112	810.435	809.466	824.836	832.939	830.495	817.625	803.367
4	887.560	846.812	836.419	817.052	829.097	857.228	854.596	845.205	826.554	834.492
5	875.537	860.553	855.620	840.746	867.643	873.533	842.144	811.921	802.783	828.073
6	876.528	883.233	870.164	888.045	921.845	862.105	793.612	763.698	756.673	787.699
7	868.491	850.456	863.712	938.911	975.376	844.280	754.394	719.889	713.657	776.216
8	817.316	812.241	829.758	939.120	970.289	834.921	742.955	696.779	708.813	784.165
9	793.193	744.584	801.880	912.553	932.217	832.576	708.009	673.702	683.369	804.754
10	770.469	718.502	765.856	877.541	889.267	822.480	708.042	662.075	664.475	774.609
11	749.363	693.443	742.272	869.867	868.766	827.941	684.921	636.169	634.308	726.286
12	754.350	684.679	749.825	861.621	820.862	781.985	657.242	612.740	596.577	687.630
13	777.394	681.233	720.098	834.701	765.812	718.458	643.391	582.055	567.973	657.517
14	788.855	660.259	687.420	788.316	714.362	677.732	624.630	548.408	535.262	625.335
15	791.267	644.437	651.583	751.146	676.014	641.498	606.607	515.907	500.845	601.476
16	781.181	607.697	617.144	719.911	669.727	620.138	600.882	490.771	482.855	584.400
17	743.891	582.715	594.111	703.055	646.606	608.908	596.808	474.883	478.583	575.250
18	706.787	544.599	562.908	686.176	633.515	595.234	583.255	473.870	477.118	542.837
19	676.906	522.039	548.122	654.500	627.746	584.884	570.395	473.562	475.092	533.456
20	646.837	506.889	532.884	649.931	610.615	580.645	555.003	475.015	481.809	538.631
21	626.502	509.168	531.431	618.652	577.133	569.624	544.533	483.845	487.259	552.823
22	603.876	506.218	512.791	605.770	568.534	581.240	546.812	491.916	496.760	565.639
23	588.484	502.959	518.571	597.810	569.977	589.894	550.324	493.622	494.129	568.920
24	573.984	518.758	527.027	599.847	575.504	596.940	545.667	497.828	500.261	580.018
25	566.079	521.334	529.757	581.878	579.324	610.471	555.642	500.239	499.700	578.840
26	551.370	507.253	526.212	586.613	602.115	626.909	557.767	502.155	489.989	577.695
27	549.784	499.039	518.340	588.584	606.023	637.655	564.318	492.675	480.135	576.440
28	547.781	494.580	519.375	585.699	609.877	644.459	573.511	495.978	468.971	579.577
29	546.019	491.574	509.807	603.106	615.690	651.704	579.754	486.576	459.469	573.654
30	560.981	488.271	500.074	617.485	621.371	651.957	585.787	478.638	458.963	577.155
31	575.757	483.559	496.287	632.117	628.891	652.717	599.010	475.984	465.007	583.079
32	585.996	473.474	482.678	636.048	632.359	639.582	602.621	473.485	454.559	572.476
33	575.845	464.391	468.211	628.693	616.428	616.340	598.702	455.263	433.387	536.682
34	563.800	444.154	447.733	599.417	587.989	586.954	567.896	435.236	406.996	503.630
35	542.683	429.269	430.887	575.834	571.386	556.005	538.400	407.667	390.018	487.567
36	526.278	415.088	414.593	549.300	549.498	529.966	514.795	387.805	378.359	472.406

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

37	514.101	403.891	398.111	521.797	528.700	508.365	487.281	371.301	371.896	453.777
38	492.984	388.455	382.564	488.591	493.754	486.829	464.082	363.891	369.319	441.061
39	481.148	375.826	367.789	461.044	470.666	471.789	449.230	359.135	365.587	424.964
40	465.899	365.829	361.524	446.246	454.151	466.295	440.928	360.236	368.053	429.940
41	455.285	364.607	352.683	449.703	462.904	471.867	450.496	372.226	377.522	442.745
42	460.636	366.875	363.858	468.101	476.623	488.128	471.360	388.367	406.379	480.344
43	479.882	381.430	376.619	484.286	498.940	507.077	497.652	409.737	425.823	508.365
44	505.172	397.714	391.659	506.174	520.542	532.972	527.753	427.871	441.930	531.387
45	529.130	418.292	409.121	530.076	546.294	549.080	546.613	435.049	445.388	538.609
46	555.157	427.584	417.378	533.985	555.631	549.795	556.864	439.717	446.918	539.369
47	556.346	427.199	415.088	532.289	547.913	532.906	548.133	428.003	431.988	523.999
48	549.190	420.538	406.588	517.624	526.267	507.077	531.563	409.770	417.224	502.970
49	528.865	398.474	388.675	491.541	495.637	481.423	509.124	392.517	409.957	487.347
50	502.640	375.991	373.470	466.318	474.333	460.449	489.791	377.302	395.303	475.423
51	479.596	361.987	354.566	445.266	455.737	448.096	472.054	363.462	380.968	456.155
52	460.934	351.307	339.923	431.240	441.380	435.236	457.256	355.271	374.450	436.591
53	446.411	339.174	332.062	420.615	435.434	428.630	442.283	346.375	364.915	421.595
54	439.013	330.201	323.033	410.816	427.827	420.670	429.236	339.218	357.263	411.257
55	432.814	330.267	318.905	411.400	425.316	411.246	421.386	337.324	342.807	394.400
56	418.534	326.722	313.961	407.469	418.061	404.904	414.273	326.083	326.413	378.039
57	403.417	314.765	314.897	403.021	412.247	396.481	402.030	314.346	309.084	359.311
58	386.011	300.430	310.196	392.506	396.977	384.348	391.714	300.837	294.011	347.332
59	372.644	288.297	298.745	377.070	381.794	369.220	374.065	286.954	280.260	333.328
60	355.700	276.428	288.605	364.068	365.895	353.498	356.262	270.912	264.075	317.727
61	340.121	262.985	274.050	343.732	345.901	333.295	338.458	257.304	252.955	309.315
62	325.973	248.771	255.388	324.366	328.142	315.436	318.762	239.490	237.684	298.140
63	308.941	235.108	238.708	306.518	306.309	293.472	295.607	221.675	222.413	285.588
64	291.259	221.037	221.984	283.805	278.927	267.312	269.679	203.861	207.065	267.048
65	268.842	201.175	202.243	257.271	249.960	238.267	237.838	185.530	189.240	241.361
66	239.655	182.160	183.140	230.726	220.993	209.289	206.096	163.058	167.858	215.664
67	210.654	161.803	164.159	204.346	192.124	186.388	178.560	143.273	144.594	189.823
68	180.905	142.767	147.127	182.832	169.807	167.374	158.236	128.498	117.972	158.676
69	154.250	127.077	131.096	160.449	149.329	148.162	142.106	111.047	98.601	140.333
70	130.281	112.665	118.479	140.289	130.303	130.061	126.439	96.028	89.173	122.916
71	126.582	106.558	107.669	126.461	116.662	114.768	111.410	86.934	84.450	107.385
72	122.618	103.364	100.571	120.967	111.036	105.826	102.493	81.846	80.287	92.868
73	118.974	99.435	96.764	116.155	106.418	101.599	98.280	77.953	75.915	86.961
74	114.900	95.485	93.535	111.432	102.817	97.748	95.864	74.986	72.694	82.109
75	110.342	91.359	90.028	107.008	99.469	94.731	94.329	73.313	69.276	77.996
76	105.257	88.540	87.750	103.564	98.162	94.095	93.832	72.511	67.329	74.701
77	101.191	84.557	84.885	101.067	96.942	93.312	93.629	73.296	65.884	71.955
78	97.126	81.581	83.426	99.080	96.552	92.648	93.358	73.501	64.963	71.076
79	93.061	79.789	81.202	97.698	95.305	90.746	91.626	73.209	62.846	69.147
80	91.274	77.858	79.878	95.754	92.907	87.746	88.807	71.366	59.761	66.917
81	86.833	74.978	76.344	92.247	87.885	83.330	84.269	68.092	56.118	64.775
82	80.355	70.386	72.013	85.773	81.982	77.519	79.495	64.187	51.852	60.060
83	74.216	65.006	66.330	79.199	75.655	73.502	74.689	60.256	47.941	54.297
84	68.839	60.625	61.735	73.572	71.291	68.622	71.241	57.449	44.109	49.590
85	63.830	55.807	57.981	68.716	65.610	63.172	64.944	52.444	41.912	44.481
86	58.285	51.257	52.475	62.485	60.189	57.853	60.803	49.752	39.126	38.728
87	54.782	48.200	49.140	58.480	57.078	55.292	58.986	48.074	35.682	34.684
88	52.376	45.859	46.186	55.449	55.113	55.882	58.264	46.505	32.659	31.693
89	48.271	42.117	44.272	51.798	53.260	51.923	54.817	44.724	30.309	29.777
90	43.256	38.680	39.909	48.522	49.088	48.454	50.341	39.692	28.816	29.692
91	40.622	36.760	37.367	45.505	45.115	43.941	45.710	36.832	27.365	27.111
92	40.112	35.980	35.489	42.869	42.122	41.240	41.899	35.212	25.672	26.336

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

93	38.359	35.221	34.519	40.625	39.545	38.724	38.818	32.692	25.166	26.008
94	37.478	34.108	32.920	38.845	37.481	35.798	35.042	31.377	25.532	26.148
95	36.379	33.258	31.781	36.933	35.159	32.552	31.208	28.518	24.646	27.008
96	35.489	32.358	30.893	35.606	32.575	28.825	26.952	25.210	24.367	25.964
97	34.622	32.034	29.881	34.112	29.771	25.396	24.156	23.852	23.570	24.768
98	34.088	31.532	29.174	32.776	27.556	22.958	22.997	23.765	23.361	24.539
99	32.776	30.622	28.677	30.931	25.420	21.695	23.043	23.926	23.450	24.547
100	31.949	30.176	27.876	28.818	23.915	21.863	23.302	24.212	23.709	24.832
101	31.338	29.663	26.814	27.484	23.798	22.506	23.786	24.560	23.992	25.150
102	30.591	29.210	26.058	26.421	24.163	23.003	24.215	24.906	24.287	25.521
103	29.865	28.655	25.381	26.339	24.578	23.424	24.694	25.270	24.684	25.888
104	28.557	27.335	24.993	26.289	24.901	24.045	25.031	25.585	25.065	26.292
105	27.139	25.887	24.765	26.319	25.068	24.499	25.454	25.800	25.281	26.689
106	25.250	25.596	24.798	26.321	25.278	24.681	25.610	26.036	25.471	26.947
107	25.425	26.034	25.141	26.697	25.513	24.845	25.766	26.180	25.723	26.999
108	25.855	26.374	25.477	26.938	25.889	25.103	25.726	26.247	25.937	26.875
109	26.202	26.577	25.619	27.106	26.106	25.272	25.822	26.174	25.856	26.965
110	26.324	26.842	25.855	27.044	26.141	25.191	25.778	26.147	25.729	26.847
111	26.228	26.900	25.803	26.952	26.100	25.086	25.535	26.052	25.485	26.543
112	25.718	26.498	25.485	26.751	25.833	24.832	25.511	25.894	25.262	26.360
113	24.884	25.960	25.095	26.283	25.428	24.436	25.238	25.639	25.032	26.228
114	24.791	25.796	24.978	26.273	25.297	24.268	24.938	25.411	24.919	26.093
115	24.913	25.770	24.878	26.410	25.587	24.558	25.192	25.348	24.949	25.924
116	25.251	25.833	24.970	26.463	26.065	24.976	25.603	25.533	25.052	26.119
117	25.720	26.044	25.262	26.740	26.609	25.523	26.010	25.791	25.251	26.279
118	26.248	26.399	25.613	27.175	27.234	26.078	26.345	26.020	25.561	26.413
119	26.725	26.679	25.986	27.540	27.732	26.373	26.546	26.202	25.840	26.555
120	27.061	26.821	26.177	27.747	28.098	26.601	26.771	26.447	26.101	26.766
121	27.306	27.071	26.415	28.077	28.437	27.170	27.167	26.752	26.305	27.142
122	27.690	27.344	26.761	28.442	28.714	27.801	27.640	27.016	26.546	27.548
123	28.099	27.414	27.150	28.895	29.067	28.167	28.095	27.331	26.818	28.125
124	28.333	27.438	27.384	29.139	29.396	28.472	28.375	27.651	27.002	28.645
125	28.449	27.542	27.567	29.146	29.486	28.815	28.744	27.862	27.080	29.034
126	28.373	27.551	27.344	29.348	29.512	29.059	28.976	27.713	26.849	29.207
127	28.431	27.147	26.843	29.332	29.660	29.146	28.946	27.474	26.718	29.178
128	28.317	26.661	26.416	29.012	29.675	29.124	28.677	27.313	26.627	28.973
129	28.155	26.318	26.068	28.594	29.521	28.933	28.487	27.256	26.537	28.859
130	27.968	26.073	26.016	28.471	29.304	28.727	28.431	27.268	26.554	28.731
131	27.565	25.945	25.923	28.400	29.061	28.464	28.379	27.290	26.534	28.691
132	27.317	25.892	25.834	28.447	28.983	28.395	28.587	27.371	26.749	29.011
133	27.401	26.080	25.949	28.769	29.073	28.565	28.898	27.512	27.056	29.246
134	27.690	26.340	26.116	29.051	29.189	28.814	29.167	27.635	27.373	29.674
135	27.777	26.376	26.228	29.109	29.246	28.992	29.390	27.813	27.733	30.175
136	27.653	26.537	26.273	29.030	29.346	29.084	29.542	28.157	27.990	30.498
137	27.609	26.786	26.422	29.027	29.511	29.278	29.681	28.472	28.121	30.763
138	27.673	27.060	26.591	29.073	29.684	29.377	29.752	28.703	28.257	30.884
139	27.832	27.130	26.610	28.945	29.703	29.481	29.745	28.763	28.428	30.912
140	27.938	27.123	26.589	29.001	29.647	29.437	29.731	28.713	28.431	30.929
141	27.916	27.064	26.548	29.005	29.355	29.260	29.561	28.644	28.366	30.766
142	27.754	26.867	26.505	28.868	28.972	28.914	29.282	28.553	28.299	30.494
143	27.457	26.491	26.426	28.576	28.462	28.511	28.957	28.352	28.113	30.220
144	27.180	26.206	26.344	28.278	27.819	28.126	28.559	28.053	27.886	29.847
145	26.830	25.856	26.261	27.964	27.157	27.689	28.099	27.598	27.601	29.472
146	26.347	25.144	25.811	27.446	26.388	27.189	27.659	27.135	27.106	28.946
147	25.807	24.389	25.135	26.888	25.818	26.671	27.244	26.519	26.294	28.379
148	25.129	23.652	24.540	26.514	25.558	26.298	26.742	25.885	25.400	27.634

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

149	24.732	22.967	23.901	26.074	25.011	25.880	26.234	25.447	24.743	26.929
150	24.483	22.863	23.887	25.488	24.247	25.289	25.735	25.320	24.490	26.449
151	24.122	22.517	24.111	24.800	24.028	24.868	25.826	25.359	24.337	26.174
152	23.667	21.778	23.385	23.354	23.598	24.645	25.788	25.228	23.971	25.982
153	23.146	21.256	22.028	21.909	22.978	23.961	25.033	24.610	23.370	25.489
154	22.586	20.715	20.670	20.463	21.933	22.685	23.554	23.777	22.715	24.712
155	21.834	19.456	19.314	19.045	20.888	21.410	22.563	23.095	22.017	23.953
156	20.659	18.497	18.066	17.671	19.842	20.137	21.571	22.137	21.320	23.183
157	19.570	17.312	16.872	16.577	18.734	18.977	20.579	21.179	20.622	21.976
158	18.381	16.170	15.804	15.541	17.487	17.765	19.493	20.219	19.745	20.769
159	17.086	15.068	14.799	14.586	15.916	16.431	17.863	18.832	18.645	19.559
160	15.918	14.128	13.775	13.625	14.448	15.165	16.461	17.402	17.198	18.093
161	15.052	13.295	12.773	12.599	13.276	13.811	15.316	15.972	15.747	16.450
162	14.338	12.452	11.980	11.955	12.192	12.480	14.254	14.701	14.472	14.877
163	13.587	11.693	11.104	11.284	11.160	11.308	13.222	13.535	13.237	13.723
164	12.950	10.959	10.088	10.329	10.213	10.091	12.213	12.424	11.943	12.664
165	12.292	10.226	9.144	9.331	9.326	8.974	11.007	11.173	10.527	11.625
166	11.367	9.307	8.206	8.330	8.422	8.134	9.576	9.898	9.129	10.029
167	10.177	8.387	7.176	7.227	7.376	7.295	8.408	8.625	7.805	8.063
168	8.981	7.504	6.128	6.084	6.164	6.371	7.215	7.100	6.261	6.058
169	7.787	6.416	4.913	4.850	4.704	5.177	5.620	5.282	4.542	4.425
170	6.114	5.040	3.701	3.634	3.405	3.764	4.050	3.809	3.222	2.975
171	4.523	3.772	2.782	2.732	2.468	2.747	2.847	2.727	2.307	2.081
172	3.220	2.734	2.108	2.088	1.837	1.975	2.086	1.993	1.719	1.456
173	2.349	1.985	1.650	1.640	1.408	1.501	1.495	1.379	1.264	1.189
174	1.522	1.343	1.299	1.300	1.160	1.219	1.205	1.105	1.088	1.072
175	0.985	0.936	1.117	1.123	1.116	1.114	1.098	1.088	1.066	1.054
176	0.910	0.895	1.091	1.093	1.095	1.090	1.076	1.068	1.049	1.035
177	0.921	0.909	1.067	1.070	1.070	1.066	1.050	1.040	1.025	1.017
178	0.933	0.923	1.041	1.044	1.043	1.039	1.024	1.012	1.001	0.995
179	0.944	0.937	1.030	1.029	1.025	1.019	1.006	0.993	0.984	0.979
180	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015	1.015

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	774.124	774.124	774.124	774.124	774.124
1	772.362	767.969	771.008	765.580	772.296
2	786.576	783.229	783.196	773.397	770.678
3	792.478	787.160	800.647	790.507	794.217
4	847.572	846.085	836.771	816.458	806.527
5	883.585	911.243	866.740	828.249	807.462
6	872.102	913.169	843.223	809.488	795.726
7	883.916	921.130	835.593	768.751	768.938
8	879.027	895.608	840.878	751.730	754.493
9	872.818	892.812	864.659	750.001	740.709
10	835.626	866.113	863.184	755.759	729.754
11	778.264	814.630	841.582	731.504	710.398
12	706.831	747.436	795.957	709.572	685.967
13	647.168	695.359	749.352	677.324	636.884
14	604.680	642.709	699.718	626.271	595.289
15	580.128	602.049	647.135	586.216	550.192
16	560.871	580.007	614.215	550.423	522.755
17	539.215	554.034	593.263	532.741	503.421
18	517.602	527.709	569.558	527.786	497.927
19	503.641	515.642	553.175	508.860	497.795

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

20	499.480	511.877	539.314	504.808	494.107
21	510.347	527.126	551.667	505.524	494.822
22	532.752	546.646	561.224	511.414	496.144
23	556.489	572.806	569.712	511.414	489.703
24	575.217	591.931	573.148	510.490	482.910
25	587.615	602.093	578.785	515.752	477.592
26	591.050	611.550	589.167	516.831	478.087
27	598.812	619.874	601.718	516.975	477.173
28	595.168	622.175	603.689	519.199	487.831
29	591.116	624.443	606.794	518.340	496.848
30	594.870	624.234	615.591	523.228	497.190
31	600.816	631.567	627.812	525.650	491.630
32	593.351	611.672	623.937	517.745	477.713
33	561.884	577.596	599.847	498.808	457.344
34	531.992	552.317	576.825	475.434	430.810
35	514.398	531.783	554.805	451.553	409.176
36	496.991	509.135	528.502	431.790	398.386
37	480.553	496.375	519.738	419.129	386.209
38	464.204	485.012	510.611	415.319	377.830
39	451.003	472.208	501.726	406.346	371.400
40	455.021	470.953	495.648	400.511	372.622
41	474.905	486.268	503.718	404.419	384.667
42	510.655	517.074	537.035	425.360	405.355
43	537.409	540.679	559.858	439.816	424.777
44	554.276	555.256	564.912	448.746	437.130
45	556.688	562.710	566.167	448.713	436.833
46	546.635	548.243	546.845	437.185	423.599
47	529.504	531.915	520.278	415.264	403.472
48	502.518	504.434	490.848	394.841	379.239
49	480.036	483.218	465.723	373.261	354.852
50	456.915	456.078	439.684	351.836	335.728
51	433.827	433.387	417.422	334.054	317.187
52	410.838	406.897	394.885	316.725	298.184
53	392.143	387.277	375.386	300.011	285.941
54	375.551	364.112	357.274	286.799	270.593
55	358.067	342.995	339.218	271.705	259.120
56	340.066	326.424	320.182	258.636	246.767
57	325.401	312.838	305.230	245.611	239.313
58	314.545	295.949	290.873	236.561	230.296
59	305.406	285.192	276.483	227.500	224.857
60	300.033	277.144	266.915	218.504	220.046
61	294.517	271.815	260.144	214.365	215.972
62	289.596	269.161	254.804	208.728	212.042
63	274.127	258.603	247.384	203.289	205.193
64	260.629	242.407	236.539	199.589	197.960
65	238.422	226.211	225.694	196.650	187.126
66	216.214	209.917	214.673	188.612	174.189
67	192.521	181.775	193.314	172.450	162.056
68	168.332	164.996	177.085	157.454	153.953
69	150.000	151.255	163.829	145.860	145.343
70	130.887	136.304	151.685	135.599	135.786
71	111.212	119.778	137.944	125.558	124.325
72	94.183	103.439	122.486	112.566	110.386
73	78.065	85.518	105.694	99.549	95.867
74	73.179	73.404	88.152	85.576	81.339
75	68.613	65.639	70.676	70.832	66.809

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

76	65.789	62.353	63.845	59.273	60.700
77	63.695	60.936	60.921	55.536	57.982
78	62.418	58.796	58.063	53.369	55.343
79	60.991	56.567	56.095	51.334	53.363
80	59.788	54.706	54.566	49.848	51.219
81	57.071	52.088	52.386	48.176	47.687
82	54.034	49.521	50.424	46.098	44.488
83	49.848	46.065	47.929	44.232	41.736
84	45.792	42.261	44.439	41.727	38.708
85	40.080	36.435	39.796	38.471	34.764
86	34.590	33.069	36.752	35.061	31.923
87	31.574	30.873	33.728	32.652	29.007
88	29.541	29.010	32.053	30.962	27.564
89	28.259	29.263	31.976	30.258	27.042
90	27.368	26.910	30.631	29.858	25.845
91	26.350	26.307	29.604	28.623	25.335
92	26.489	26.486	29.026	28.362	25.816
93	25.031	25.792	28.833	28.814	26.497
94	25.053	25.440	28.176	27.746	24.808
95	26.430	25.438	27.147	27.215	24.416
96	24.080	24.102	26.725	26.928	24.113
97	23.430	23.734	25.994	26.315	23.982
98	23.373	23.499	25.781	26.242	23.801
99	23.510	23.622	25.547	26.032	23.712
100	23.876	23.921	25.376	25.769	23.754
101	24.241	24.265	25.449	25.936	23.957
102	24.786	24.709	25.769	26.171	24.069
103	25.340	25.102	25.951	26.344	24.168
104	25.687	25.560	26.083	26.389	24.318
105	26.198	26.011	26.311	26.535	24.514
106	26.523	26.525	26.392	26.704	24.779
107	26.686	26.600	26.264	26.748	24.927
108	26.579	26.480	26.111	26.569	24.985
109	26.453	26.318	25.967	26.448	24.877
110	26.221	26.036	25.851	26.144	24.641
111	25.816	25.703	25.794	25.968	24.364
112	25.675	25.490	25.795	25.925	24.116
113	25.511	25.376	25.572	25.640	23.904
114	25.447	25.417	25.534	25.435	23.936
115	25.499	25.496	25.637	25.434	24.047
116	25.832	25.838	26.003	25.726	24.281
117	26.131	26.189	26.336	26.050	24.676
118	26.382	26.527	26.652	26.330	25.022
119	26.649	26.762	26.827	26.596	25.316
120	26.892	26.983	26.986	26.890	25.472
121	27.120	27.190	27.151	27.144	25.600
122	27.410	27.549	27.491	27.299	25.709
123	27.811	28.011	27.936	27.424	25.812
124	28.197	28.422	28.309	27.621	25.779
125	28.579	28.872	28.554	27.751	25.604
126	28.759	29.103	28.627	27.549	25.411
127	28.763	29.105	28.525	27.300	25.282
128	28.712	29.021	28.504	27.254	25.217
129	28.637	28.934	28.404	27.322	25.369
130	28.626	28.834	28.391	27.480	25.375
131	28.755	28.989	28.701	27.637	25.380

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

132	29.022	29.311	29.150	27.975	25.386
133	29.303	29.594	29.622	28.334	25.391
134	29.819	29.977	29.985	28.517	25.398
135	30.344	30.495	30.203	28.541	25.499
136	30.940	31.035	30.280	28.565	25.628
137	31.502	31.390	30.371	28.609	25.726
138	31.789	31.676	30.447	28.623	25.887
139	31.906	31.786	30.403	28.670	26.109
140	31.944	31.700	30.284	28.646	26.265
141	31.665	31.418	30.156	28.593	26.346
142	31.184	31.060	30.007	28.526	26.276
143	30.762	30.701	29.747	28.418	26.120
144	30.392	30.425	29.390	28.179	25.888
145	30.128	30.157	29.071	27.914	25.609
146	29.770	29.834	28.638	27.506	25.213
147	29.159	29.268	28.154	27.022	24.843
148	28.356	28.609	27.579	26.356	24.654
149	27.794	28.139	27.069	25.881	24.492
150	27.578	27.974	26.681	25.756	24.321
151	27.360	27.846	26.743	25.920	23.968
152	26.849	27.494	27.010	25.927	23.526
153	25.898	26.884	26.548	25.264	23.004
154	24.904	26.028	25.116	24.060	22.474
155	23.838	24.790	23.889	23.176	21.952
156	22.695	23.313	22.661	22.197	21.345
157	21.552	21.836	21.432	21.220	20.601
158	20.402	20.360	20.202	20.236	19.394
159	18.933	19.015	18.800	18.977	18.034
160	17.527	17.586	17.552	17.780	16.895
161	16.275	16.120	16.256	16.458	15.937
162	15.070	14.560	14.991	15.080	14.935
163	13.714	13.026	13.667	13.628	13.971
164	12.475	11.738	12.442	12.202	13.094
165	11.149	10.620	11.359	10.992	12.134
166	9.649	9.462	10.220	9.881	10.261
167	7.967	8.180	8.882	8.673	8.367
168	6.007	6.223	6.894	6.893	6.472
169	4.283	4.399	4.953	5.011	4.664
170	2.920	3.019	3.489	3.485	3.101
171	1.997	2.177	2.424	2.520	2.044
172	1.361	1.504	1.688	1.789	1.264
173	1.116	1.171	1.235	1.275	0.944
174	1.082	1.094	1.094	1.093	0.890
175	1.064	1.073	1.073	1.072	0.915
176	1.042	1.050	1.044	1.043	0.933
177	1.017	1.023	1.015	1.016	0.953
178	0.991	0.995	0.988	0.985	0.974
179	0.974	0.980	0.972	0.967	0.995
180	1.015	1.015	1.015	1.015	1.015

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	267.20	N.A.	12.80
0-30	527.26	N.A.	25.30
0-40	840.83	N.A.	40.40
0-60	1538.53	N.A.	74.00
0-80	1859.19	N.A.	89.40
0-90	1916.54	N.A.	92.10
10-90	1837.05	N.A.	88.30
20-40	573.63	N.A.	27.60
20-50	941.04	N.A.	45.20
40-70	921.08	N.A.	44.30
60-80	320.65	N.A.	15.40
70-80	97.28	N.A.	4.70
80-90	57.36	N.A.	2.80
90-110	60.60	N.A.	2.90
90-120	86.29	N.A.	4.10
90-130	111.36	N.A.	5.40
90-150	150.18	N.A.	7.20
90-180	163.71	N.A.	7.90
110-180	103.12	N.A.	5.00
0-180	2080.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	79.49
10-20	187.70
20-30	260.06
30-40	313.57
40-50	367.41
50-60	330.30
60-70	223.37
70-80	97.28
80-90	57.36
90-100	32.94
100-110	27.66
110-120	25.70
120-130	25.07
130-140	21.82
140-150	17.00
150-160	10.10
160-170	3.25
170-180	0.18

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	107	102	98	94	103	99	95	92	93	90	87	88	86	83	83	81	80	77
2	97	89	83	77	94	87	81	75	82	77	72	77	73	70	73	70	67	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	81	70	61	54	78	68	60	53	64	57	52	61	55	50	58	53	49	46
5	75	62	53	47	72	61	52	46	58	50	45	55	49	44	52	47	43	40
6	69	56	47	41	67	55	46	40	52	45	39	50	43	38	47	42	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	39	34	43	38	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28
9	56	42	34	29	54	42	34	29	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	35	29	25	34	28	24	23

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTMOWT50120-277V_P.IES

UGR TABLE - CORRECTED

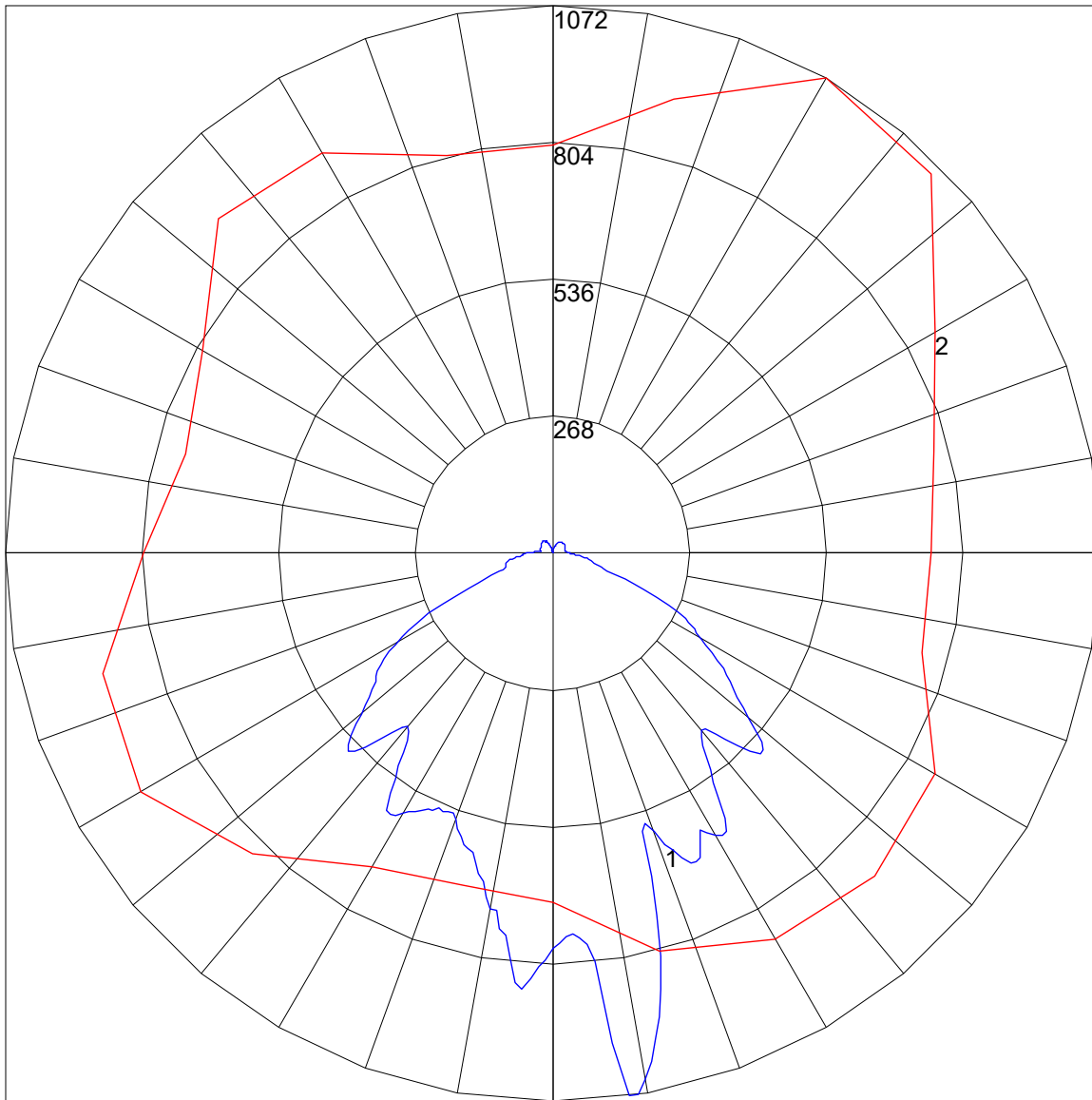
Reflectances

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	20.9	22.3	21.3	22.8	23.3	22.4	23.8	22.9	24.3	24.8
	3H	22.1	23.4	22.6	23.9	24.5	23.0	24.3	23.5	24.8	25.3
	4H	22.3	23.6	22.8	24.1	24.6	23.1	24.4	23.6	24.9	25.4
	6H	22.4	23.6	23.0	24.1	24.7	23.3	24.4	23.8	24.9	25.5
	8H	22.4	23.5	23.0	24.1	24.7	23.3	24.4	23.9	25.0	25.6
	12H	22.5	23.5	23.0	24.1	24.7	23.4	24.5	24.0	25.0	25.6
4H	2H	21.6	22.8	22.1	23.3	23.9	22.9	24.1	23.4	24.6	25.2
	3H	22.9	23.9	23.4	24.5	25.1	23.5	24.6	24.1	25.1	25.7
	4H	23.1	24.1	23.7	24.6	25.2	23.7	24.7	24.3	25.2	25.9
	6H	23.3	24.1	23.8	24.7	25.3	24.0	24.8	24.6	25.4	26.1
	8H	23.3	24.1	23.9	24.7	25.3	24.1	24.9	24.7	25.5	26.1
	12H	23.4	24.1	24.0	24.7	25.3	24.2	24.9	24.8	25.6	26.2
8H	4H	23.1	23.9	23.7	24.5	25.1	23.8	24.6	24.4	25.2	25.8
	6H	23.4	24.0	24.0	24.6	25.3	24.2	24.8	24.8	25.5	26.1
	8H	23.5	24.1	24.1	24.7	25.3	24.4	25.0	25.0	25.6	26.3
	12H	23.6	24.1	24.2	24.7	25.4	24.6	25.1	25.2	25.7	26.4
12H	4H	23.1	23.8	23.7	24.4	25.1	23.8	24.5	24.4	25.1	25.8
	6H	23.4	24.0	24.0	24.6	25.3	24.2	24.8	24.9	25.4	26.1
	8H	23.5	24.0	24.1	24.6	25.4	24.4	24.9	25.1	25.6	26.3

Maximum UGR = 26.4

POLAR GRAPH



Maximum Candela = 1071.647 Located At Horizontal Angle = 60, Vertical Angle = 9
1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (9) (Through Max. Cd.)