



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_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] HZCAS100HTHOWT50120-277V_P

[LUMINAIRE] LED

[BALLAST] 100-277VAc 50/60Hz

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3121
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	30
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	47393	48983	44672
55	27291	32210	34455
65	19731	22635	20257
75	7274	7151	8241
85	4039	3042	6163

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524
1	1158.781	1143.302	1130.433	1137.223	1144.541	1149.200	1158.781	1163.407	1180.439	1190.995
2	1156.353	1128.864	1121.579	1116.243	1125.709	1143.567	1185.015	1211.793	1231.815	1240.769
3	1191.672	1160.285	1124.651	1113.864	1120.389	1140.824	1193.374	1241.678	1286.397	1284.084
4	1210.141	1197.553	1181.777	1144.227	1132.432	1159.839	1199.271	1267.713	1310.499	1309.277
5	1211.546	1181.347	1168.099	1173.980	1151.232	1162.333	1222.317	1284.200	1293.748	1314.976
6	1193.936	1175.367	1178.225	1252.548	1205.037	1179.729	1249.723	1299.712	1288.858	1313.869
7	1153.743	1184.453	1262.476	1454.040	1449.199	1267.862	1250.797	1307.559	1298.555	1311.391
8	1132.069	1172.162	1299.381	1555.323	1606.650	1383.236	1189.855	1257.768	1365.196	1355.218
9	1111.386	1159.839	1299.117	1575.559	1607.938	1379.833	1196.711	1208.473	1356.375	1388.241
10	1094.949	1124.073	1301.694	1534.293	1568.704	1337.840	1177.614	1134.084	1355.681	1403.390
11	1065.907	1090.456	1288.528	1464.100	1521.375	1273.181	1126.370	1094.453	1343.638	1375.323
12	1029.250	1061.001	1286.347	1418.770	1458.880	1231.782	1074.613	1071.887	1323.996	1346.529
13	955.604	1016.496	1221.226	1355.103	1397.641	1194.299	1037.840	1087.152	1328.968	1315.521
14	893.193	948.930	1158.368	1256.909	1318.561	1152.867	1015.720	1071.689	1282.416	1307.030
15	825.527	871.419	1054.178	1129.062	1223.440	1132.664	1008.468	1074.927	1289.106	1311.639
16	784.360	827.939	963.980	1030.604	1104.811	1109.288	965.136	1084.987	1265.698	1262.278
17	755.351	811.370	890.401	892.895	990.841	1008.616	899.074	1054.707	1232.162	1206.094
18	747.108	821.629	879.646	799.724	857.576	914.041	835.505	1025.136	1159.459	1143.137
19	746.910	830.748	883.661	823.429	837.372	842.939	800.137	1003.842	1119.283	1091.050
20	741.376	840.346	904.707	851.414	868.380	839.520	789.118	988.314	1083.881	1039.938
21	742.449	835.406	922.713	889.806	915.247	852.356	802.284	989.619	1056.937	990.346
22	744.432	832.846	936.491	919.558	938.754	879.646	820.390	965.500	1003.677	929.999
23	734.768	820.671	938.804	944.784	973.297	897.042	800.401	961.849	977.229	898.908
24	724.575	804.432	922.119	965.434	996.920	895.456	782.857	905.087	914.602	854.057
25	716.596	788.986	902.923	968.060	1000.918	892.598	747.604	818.573	851.084	809.173
26	717.339	783.650	895.423	924.019	992.609	851.513	716.447	767.692	820.869	796.254
27	715.968	789.845	887.312	904.509	952.499	799.443	706.288	757.152	845.516	823.578
28	731.959	812.609	908.374	906.706	919.872	761.018	715.671	779.355	855.577	834.019
29	745.489	841.568	938.572	923.985	936.260	763.628	711.095	776.943	875.533	847.763
30	746.001	860.682	972.471	941.876	958.677	777.620	712.069	796.106	895.324	853.975
31	737.659	864.663	983.903	951.474	965.880	781.882	706.668	804.019	916.965	857.609
32	716.778	863.093	959.635	941.860	964.029	782.774	704.355	829.723	930.907	867.835
33	686.216	825.742	911.497	909.035	930.048	757.383	678.600	823.859	918.204	856.271
34	646.403	760.126	840.808	843.138	870.379	720.428	651.690	807.174	907.631	837.422
35	613.942	711.243	786.987	794.801	823.991	681.095	616.007	766.122	869.949	816.788
36	597.752	673.149	749.272	754.988	787.846	652.218	599.008	738.369	828.270	795.115
37	579.482	642.736	723.799	728.193	752.394	633.121	573.898	721.866	804.167	767.130
38	566.910	635.814	704.322	707.840	716.761	606.723	555.478	703.446	787.697	752.857
39	557.262	625.175	705.561	699.812	694.443	585.478	540.115	681.128	755.335	728.226
40	559.096	627.009	700.720	706.288	679.046	571.750	522.075	659.074	728.242	718.397
41	577.169	635.120	708.567	713.342	685.027	569.091	520.423	626.613	702.752	699.547
42	608.209	674.669	735.362	753.204	716.381	571.618	525.429	618.964	684.861	690.891
43	637.350	712.284	773.870	787.383	745.258	598.777	547.648	630.214	711.607	700.473
44	655.886	747.405	812.460	828.105	786.425	633.567	585.825	679.492	750.296	741.640
45	655.440	769.046	836.530	854.321	821.199	664.360	617.807	727.053	796.750	772.928
46	635.583	770.285	840.147	865.753	850.208	697.301	643.545	773.011	827.097	817.334
47	605.385	745.159	827.576	856.320	845.021	707.973	641.249	787.565	842.196	827.890
48	569.025	708.419	781.254	820.505	829.591	696.475	633.154	792.488	834.861	823.826
49	532.433	666.524	733.132	771.293	790.340	676.238	606.145	759.647	802.598	789.679
50	503.738	632.262	696.590	732.653	754.046	640.208	575.203	728.903	766.568	753.072
51	475.919	607.136	662.378	703.777	722.527	614.553	556.056	697.780	728.953	716.084
52	447.406	573.270	635.087	668.474	687.637	586.387	533.507	671.332	700.539	696.855
53	429.036	547.516	608.639	639.597	661.486	568.694	523.992	647.461	681.690	677.312

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

54	406.007	516.492	584.619	616.585	644.057	557.642	507.141	631.502	668.622	664.856
55	388.794	494.966	563.507	593.623	625.043	541.007	490.853	611.546	654.961	648.964
56	370.258	464.867	539.652	575.252	607.301	516.227	470.170	588.452	637.945	615.131
57	359.074	450.412	519.928	547.664	578.573	491.778	451.205	565.159	607.185	591.723
58	345.545	435.660	503.111	537.307	551.431	459.696	430.886	531.145	567.191	567.934
59	337.384	423.436	490.010	525.809	525.346	443.193	404.653	509.735	540.561	542.395
60	330.165	419.041	482.196	516.558	503.887	411.921	379.675	480.131	505.605	515.533
61	324.052	417.835	480.511	504.465	483.915	398.887	369.961	456.822	479.619	489.069
62	318.155	412.797	476.150	491.811	474.300	384.085	351.178	438.997	462.736	466.899
63	307.880	409.542	464.405	471.905	446.778	366.277	330.710	423.089	442.152	442.433
64	297.026	407.230	442.185	452.163	433.166	349.295	312.869	399.432	414.713	424.047
65	280.771	389.454	415.919	426.855	406.404	328.909	288.254	371.927	388.645	394.113
66	261.360	358.050	382.334	389.107	374.636	300.313	259.576	340.556	361.156	357.720
67	243.155	323.904	338.392	347.692	332.395	267.257	228.221	305.319	317.824	313.298
68	230.996	299.752	308.028	309.085	290.071	235.688	197.676	261.608	269.388	267.769
69	218.078	278.854	282.819	277.747	257.825	201.492	163.323	208.959	222.703	219.994
70	203.739	258.238	259.774	252.026	225.925	168.469	151.174	174.267	192.737	189.152
71	186.542	235.572	232.120	221.910	195.429	156.177	139.140	167.147	180.132	183.155
72	165.628	206.398	202.748	187.120	168.849	144.342	127.107	163.151	172.516	176.547
73	143.843	172.004	171.195	155.200	155.887	132.509	121.582	156.525	166.024	170.501
74	122.043	152.076	153.684	144.441	147.951	127.460	117.623	152.047	161.656	165.264
75	100.242	132.495	136.627	133.827	140.022	122.975	113.567	147.621	154.321	160.574
76	91.077	112.913	119.569	123.213	132.092	118.166	110.911	143.194	149.724	155.635
77	86.998	107.750	114.054	116.688	125.945	114.588	109.280	138.505	145.217	148.838
78	83.038	102.183	107.975	109.916	119.744	109.525	107.448	136.647	140.709	142.004
79	80.068	98.567	101.717	103.064	114.538	105.910	106.647	136.029	138.322	138.304
80	76.850	94.017	93.866	95.997	108.495	101.481	105.003	132.712	134.795	133.093
81	71.551	86.405	84.705	87.177	101.631	97.617	100.898	127.949	130.022	127.354
82	66.752	80.058	75.861	79.528	94.619	92.897	94.259	120.398	122.664	117.304
83	62.622	74.334	68.537	70.523	85.971	84.970	87.403	112.672	115.771	108.200
84	58.079	65.278	60.094	61.270	77.324	77.975	81.899	106.060	108.142	100.249
85	52.161	57.112	53.764	54.768	70.422	73.393	79.586	101.144	102.398	93.152
86	47.899	51.768	47.278	47.714	65.489	69.945	71.924	92.734	94.315	85.896
87	43.523	46.118	43.194	44.703	62.144	64.434	67.911	88.292	88.946	80.567
88	41.357	43.873	42.732	42.370	56.255	60.474	64.123	83.174	82.827	75.656
89	40.574	42.347	40.553	38.212	51.469	57.079	61.120	77.339	76.845	69.195
90	38.779	40.249	38.412	37.351	49.781	53.570	54.646	69.591	67.545	61.364
91	38.014	40.308	38.430	37.244	47.257	50.090	52.670	66.537	63.775	57.178
92	38.736	40.645	38.352	35.992	44.699	48.717	51.352	65.108	61.692	56.068
93	39.757	40.994	36.730	34.559	42.930	47.613	49.951	62.519	59.481	53.960
94	37.222	37.939	35.384	34.161	41.993	46.563	48.927	60.522	57.233	53.073
95	36.634	37.591	35.184	33.517	40.239	44.455	47.714	58.516	55.103	51.666
96	36.180	37.480	35.177	33.580	39.467	43.189	46.343	56.184	52.928	49.979
97	35.983	37.315	35.189	33.897	38.817	42.365	45.188	54.563	51.264	48.377
98	35.713	36.978	35.273	34.151	38.171	41.526	44.344	53.060	49.817	47.539
99	35.579	36.823	35.399	34.313	37.741	40.885	43.358	51.652	48.344	46.731
100	35.641	36.895	35.671	34.900	37.852	40.731	42.596	50.324	47.326	45.748
101	35.945	37.009	35.960	35.600	37.928	40.721	41.911	49.232	46.323	44.898
102	36.114	37.137	36.159	36.081	38.283	40.715	41.359	48.307	45.674	44.422
103	36.263	37.313	36.601	36.223	38.255	40.353	40.815	47.483	44.916	43.966
104	36.487	37.604	36.948	36.426	38.248	39.943	40.373	46.378	44.276	43.766
105	36.781	38.048	37.376	36.699	38.349	39.892	40.013	45.434	43.736	42.842
106	37.179	38.494	37.822	37.018	38.316	39.824	39.826	44.891	43.127	41.048
107	37.401	38.785	38.220	37.474	38.399	39.765	39.425	43.954	41.527	38.679
108	37.488	38.843	38.296	37.801	38.418	39.923	38.681	42.314	39.324	38.395
109	37.326	38.390	37.996	37.723	38.537	39.927	36.763	39.484	38.749	39.264

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

110	36.973	38.053	37.439	37.259	38.334	39.687	36.601	39.349	39.119	39.757
111	36.557	37.977	37.148	36.790	38.010	39.241	36.451	39.287	39.246	39.588
112	36.185	37.911	37.252	36.717	37.953	39.040	36.254	38.757	38.519	38.815
113	35.866	38.157	37.867	37.132	38.040	39.155	36.002	38.483	38.015	37.703
114	35.914	38.493	38.817	38.078	38.570	39.218	35.683	38.509	37.713	37.089
115	36.081	38.871	39.847	39.168	39.504	39.504	35.661	38.714	37.891	37.062
116	36.433	39.388	40.591	39.847	40.295	40.113	35.716	39.197	38.675	37.743
117	37.024	40.034	41.266	40.482	40.929	40.614	35.916	39.907	39.765	38.911
118	37.545	40.510	41.828	41.086	41.423	41.240	36.167	40.751	40.802	40.049
119	37.986	40.865	42.332	41.683	41.866	41.813	36.629	41.430	41.810	40.834
120	38.219	41.100	42.674	42.159	41.997	42.246	37.120	41.927	42.276	41.336
121	38.412	41.349	43.036	42.636	42.385	42.557	37.515	42.311	42.529	41.831
122	38.575	41.798	43.320	43.161	42.719	42.738	37.933	42.666	43.047	42.231
123	38.729	42.064	43.440	43.526	42.980	42.775	38.210	43.036	43.459	42.567
124	38.679	42.317	43.554	43.723	42.947	42.646	38.342	43.381	43.701	43.085
125	38.417	42.755	43.751	43.969	43.122	42.535	38.181	43.394	43.685	43.457
126	38.128	42.846	43.964	43.999	43.019	42.116	37.730	43.179	43.485	43.680
127	37.934	42.590	43.802	43.928	42.988	41.605	37.171	43.032	43.609	43.873
128	37.837	42.395	43.632	43.612	42.887	41.263	36.910	42.922	43.738	43.640
129	38.065	42.382	43.678	43.528	42.836	41.070	36.771	43.009	43.999	43.606
130	38.073	42.375	43.815	43.437	42.902	40.964	36.656	42.953	43.705	43.221
131	38.081	42.532	44.000	43.573	42.801	40.910	36.489	42.710	43.320	42.486
132	38.090	42.752	44.053	43.581	42.687	41.047	36.226	42.619	43.074	41.992
133	38.098	42.686	43.863	43.360	42.629	41.030	36.020	42.671	42.842	42.012
134	38.108	42.352	43.307	42.884	42.534	41.007	35.983	42.773	43.054	42.218
135	38.260	42.188	42.662	42.031	42.664	40.877	36.025	42.317	43.008	42.206
136	38.453	42.087	42.542	41.627	42.576	40.569	36.178	41.795	42.988	42.045
137	38.600	42.054	42.623	41.600	42.200	40.333	36.350	41.258	42.831	42.121
138	38.841	41.940	42.504	41.683	41.698	40.178	36.429	40.989	42.730	42.043
139	39.175	42.016	42.449	41.797	41.714	40.128	36.641	40.976	42.656	42.155
140	39.410	41.977	42.340	41.670	41.871	40.211	36.748	40.969	42.524	42.223
141	39.530	41.750	42.084	41.371	41.722	40.117	36.841	40.782	42.406	42.230
142	39.426	41.445	41.648	41.027	41.290	39.861	36.672	40.275	41.919	41.917
143	39.192	40.941	41.171	40.632	40.731	39.372	36.411	39.499	41.372	41.527
144	38.843	40.434	40.687	40.250	40.062	38.898	36.243	39.144	40.931	41.192
145	38.425	40.004	40.237	39.965	39.322	38.361	36.003	38.531	40.318	40.830
146	37.830	39.558	39.552	39.588	38.498	37.673	35.361	37.806	39.644	40.325
147	37.275	38.835	38.939	39.112	37.891	37.141	34.566	37.325	39.155	39.889
148	36.991	38.019	38.265	38.595	37.317	36.315	33.671	36.585	38.561	39.324
149	36.748	37.447	37.840	37.906	36.998	35.676	33.074	36.187	37.984	38.812
150	36.492	37.478	37.644	37.310	37.085	35.268	32.820	36.106	37.424	38.394
151	35.962	37.462	37.125	36.499	36.614	35.034	33.560	35.823	36.616	37.814
152	35.300	36.838	36.474	35.585	35.711	34.659	33.866	35.519	36.159	36.909
153	34.516	35.319	35.638	35.002	34.650	34.318	33.358	34.189	35.098	36.221
154	33.720	33.932	34.260	33.993	33.524	33.590	32.224	33.261	34.070	34.789
155	32.937	32.465	32.784	32.788	32.260	32.152	30.284	32.114	32.691	33.167
156	32.027	31.008	31.173	31.520	30.885	30.648	29.035	30.697	31.176	31.720
157	30.910	29.565	29.309	29.798	29.460	29.377	28.143	29.466	29.820	30.167
158	29.100	27.872	27.570	27.796	27.768	28.307	27.446	28.133	28.313	28.607
159	27.059	26.149	26.010	26.085	26.225	27.134	26.579	26.463	26.656	26.802
160	25.350	24.641	24.519	24.458	24.662	25.718	25.117	25.193	25.070	24.861
161	23.912	23.270	23.090	22.834	23.072	24.206	23.648	24.142	23.747	23.124
162	22.409	21.798	21.575	21.221	21.674	22.936	22.574	23.058	22.673	21.634
163	20.962	20.364	19.776	19.944	20.442	21.349	21.664	22.085	21.773	20.372
164	19.647	19.107	17.858	18.841	19.308	19.612	20.767	21.241	20.665	19.379
165	18.206	17.881	16.070	17.447	17.886	17.579	19.688	20.186	19.295	18.434

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

166	15.396	15.480	14.282	15.465	15.774	15.583	18.190	18.760	17.865	17.415
167	12.554	13.075	12.494	13.479	13.646	13.470	15.662	16.847	15.934	15.928
168	9.711	10.669	10.430	11.492	11.519	11.268	13.112	14.345	13.996	14.438
169	6.998	7.829	8.181	9.127	9.113	9.064	10.563	11.831	12.057	12.948
170	4.652	5.392	5.805	6.678	6.807	6.860	7.951	8.907	9.412	10.191
171	3.067	3.517	4.067	4.653	4.798	4.801	5.470	6.225	6.739	7.523
172	1.896	2.338	2.778	3.248	3.382	3.156	3.670	4.263	4.699	5.344
173	1.417	1.630	1.920	2.136	2.289	2.262	2.367	2.736	3.283	3.780
174	1.335	1.370	1.474	1.487	1.589	1.655	1.608	1.779	2.178	2.443
175	1.372	1.391	1.389	1.382	1.376	1.379	1.368	1.387	1.490	1.545
176	1.400	1.418	1.416	1.406	1.394	1.373	1.376	1.390	1.393	1.382
177	1.430	1.442	1.439	1.430	1.416	1.391	1.389	1.405	1.404	1.396
178	1.462	1.469	1.463	1.452	1.435	1.409	1.403	1.421	1.419	1.412
179	1.492	1.491	1.485	1.470	1.449	1.428	1.416	1.436	1.433	1.428
180	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523

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	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524	1161.524
1	1204.178	1214.437	1210.241	1204.508	1191.358	1187.807	1196.100	1197.388	1180.934	1169.899
2	1251.738	1248.781	1209.778	1223.374	1209.134	1208.869	1213.891	1212.851	1210.720	1206.507
3	1306.386	1262.014	1212.520	1216.006	1214.552	1237.614	1249.772	1246.105	1226.793	1205.400
4	1331.727	1270.587	1254.993	1225.934	1244.007	1286.215	1282.267	1268.176	1240.191	1252.102
5	1313.688	1291.204	1283.803	1261.485	1301.843	1310.681	1263.583	1218.236	1204.525	1242.471
6	1315.174	1325.235	1305.626	1332.454	1383.170	1293.533	1190.764	1145.879	1135.340	1181.893
7	1303.115	1276.055	1295.945	1408.776	1463.489	1266.788	1131.920	1080.147	1070.797	1164.662
8	1226.331	1218.715	1244.998	1409.089	1455.857	1252.746	1114.756	1045.472	1063.528	1176.590
9	1190.136	1117.201	1203.170	1369.227	1398.732	1249.227	1062.322	1010.847	1025.351	1207.482
10	1156.039	1078.066	1149.117	1316.694	1334.288	1234.079	1062.372	993.402	997.003	1162.251
11	1124.371	1040.467	1113.732	1305.180	1303.528	1242.272	1027.680	954.531	951.739	1089.745
12	1131.854	1027.317	1125.064	1292.807	1231.650	1173.319	986.149	919.376	895.125	1031.744
13	1166.430	1022.146	1080.461	1252.416	1149.051	1078.000	965.368	873.336	852.207	986.562
14	1183.627	990.676	1031.430	1182.818	1071.854	1016.893	937.218	822.851	803.127	938.275
15	1187.245	966.937	977.658	1127.047	1014.316	962.526	910.175	774.085	751.486	902.477
16	1172.113	911.810	925.984	1080.180	1004.883	930.478	901.585	736.370	724.492	876.854
17	1116.160	874.327	891.425	1054.888	970.191	913.628	895.472	712.532	718.083	863.127
18	1060.489	817.135	844.608	1029.564	950.549	893.110	875.136	711.012	715.886	814.492
19	1015.654	783.286	822.422	982.036	941.893	877.581	855.841	710.550	712.846	800.417
20	970.538	760.555	799.558	975.180	916.188	871.221	832.747	712.730	722.923	808.182
21	940.026	763.975	797.378	928.248	865.951	854.685	817.036	725.979	731.100	829.476
22	906.078	759.547	769.410	908.919	853.049	872.113	820.456	738.088	745.357	848.705
23	882.983	754.658	778.083	896.976	855.214	885.098	825.726	740.649	741.409	853.628
24	861.227	778.363	790.770	900.032	863.506	895.671	818.738	746.959	750.610	870.280
25	849.366	782.229	794.867	873.071	869.239	915.973	833.705	750.577	749.768	868.512
26	827.295	761.100	789.547	880.175	903.435	940.637	836.893	753.452	735.197	866.794
27	824.916	748.776	777.736	883.132	909.299	956.761	846.722	739.228	720.412	864.911
28	821.910	742.086	779.289	878.804	915.081	966.970	860.516	744.184	703.661	869.619
29	819.266	737.576	764.933	904.922	923.804	977.840	869.883	730.076	689.404	860.731
30	841.717	732.620	750.329	926.496	932.328	978.220	878.936	718.165	688.644	865.984
31	863.886	725.550	744.647	948.451	943.611	979.360	898.776	714.184	697.714	874.872
32	879.250	710.417	724.228	954.349	948.815	959.652	904.195	710.434	682.036	858.964
33	864.019	696.789	702.521	943.314	924.911	924.778	898.314	683.094	650.269	805.258
34	845.946	666.425	671.794	899.387	882.240	880.687	852.091	653.044	610.671	755.665
35	814.261	644.090	646.519	864.002	857.328	834.250	807.835	611.679	585.197	731.563
36	789.646	622.813	622.070	824.189	824.487	795.181	772.416	581.877	567.703	708.815

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

37	771.376	606.012	597.339	782.923	793.281	762.769	731.133	557.114	558.006	680.864
38	739.691	582.852	574.014	733.099	740.847	730.456	696.326	545.996	554.140	661.783
39	721.932	563.903	551.844	691.767	706.205	707.890	674.041	538.859	548.540	637.631
40	699.052	548.903	542.444	669.564	681.425	699.647	661.585	540.511	552.240	645.098
41	683.127	547.070	529.179	674.751	694.558	708.006	675.941	558.501	566.447	664.311
42	691.155	550.473	545.946	702.356	715.142	732.405	707.246	582.719	609.746	720.726
43	720.032	572.312	565.093	726.640	748.628	760.836	746.695	614.784	638.920	762.769
44	757.978	596.745	587.659	759.481	781.040	799.690	791.860	641.992	663.088	797.312
45	793.925	627.620	613.859	795.346	819.679	823.859	820.159	652.763	668.275	808.149
46	832.978	641.563	626.249	801.210	833.688	824.933	835.538	659.768	670.572	809.289
47	834.762	640.985	622.813	798.666	822.108	799.591	822.438	642.191	648.171	786.227
48	824.024	630.990	610.060	776.662	789.630	760.836	797.576	614.834	626.018	754.674
49	793.529	597.885	583.182	737.526	743.672	722.345	763.909	588.947	615.115	731.232
50	754.178	564.151	560.368	699.680	711.706	690.875	734.900	566.117	593.127	713.342
51	719.603	543.138	532.004	668.094	683.804	672.339	708.286	545.352	571.618	684.432
52	691.601	527.114	510.032	647.048	662.262	653.044	686.084	533.061	561.838	655.076
53	669.812	508.909	498.237	631.106	653.342	643.132	663.617	519.713	547.532	632.576
54	658.711	495.445	484.691	616.403	641.926	631.189	644.041	508.975	536.051	617.064
55	649.410	495.544	478.496	617.279	638.160	617.048	632.262	506.134	514.361	591.772
56	627.984	490.225	471.079	611.381	627.273	607.532	621.591	489.267	489.763	567.224
57	605.302	472.285	472.483	604.707	618.551	594.895	603.221	471.657	463.760	539.124
58	579.184	450.776	465.429	588.931	595.638	576.690	587.741	451.387	441.145	521.150
59	559.129	432.571	448.248	565.770	572.857	553.992	561.260	430.556	420.512	500.137
60	533.705	414.763	433.034	546.260	549.003	530.401	534.548	406.486	396.227	476.728
61	510.330	394.592	411.194	515.748	519.003	500.087	507.835	386.068	379.542	464.107
62	489.102	373.265	383.193	486.690	492.356	473.292	478.281	359.339	356.629	447.340
63	463.546	352.764	358.166	459.911	459.597	440.335	443.540	332.610	333.716	428.507
64	437.015	331.652	333.072	425.831	418.513	401.084	404.636	305.881	310.688	400.688
65	403.380	301.850	303.452	386.018	375.049	357.505	356.861	278.375	283.942	362.147
66	359.586	273.320	274.790	346.189	331.585	314.025	309.234	244.658	251.861	323.590
67	316.073	242.775	246.310	306.607	288.271	279.664	267.918	214.972	216.955	284.818
68	271.437	214.212	220.754	274.328	254.785	251.134	237.423	192.803	177.010	238.083
69	231.442	190.672	196.701	240.743	224.058	222.307	213.221	166.619	147.945	210.561
70	195.479	169.047	177.770	210.495	195.512	195.148	189.713	144.084	133.799	184.427
71	189.928	159.884	161.550	189.746	175.044	172.202	167.164	130.439	126.712	161.124
72	183.981	155.091	150.900	181.503	166.602	158.785	153.784	122.805	120.466	139.343
73	178.513	149.195	145.188	174.284	159.674	152.443	147.462	116.963	113.906	130.480
74	172.401	143.270	140.344	167.197	154.270	146.664	143.838	112.511	109.072	123.200
75	165.561	137.078	135.081	160.559	149.246	142.138	141.535	110.002	103.944	117.028
76	157.931	132.849	131.663	155.392	147.286	141.183	140.788	108.798	101.024	112.084
77	151.830	126.872	127.364	151.645	145.455	140.009	140.484	109.976	98.854	107.964
78	145.731	122.407	125.175	148.663	144.870	139.012	140.078	110.283	97.473	106.645
79	139.632	119.719	121.838	146.590	142.999	136.158	137.479	109.845	94.297	103.751
80	136.951	116.821	119.851	143.673	139.401	131.658	133.249	107.080	89.668	100.404
81	130.287	112.500	114.550	138.411	131.866	125.032	126.441	102.168	84.201	97.191
82	120.568	105.609	108.051	128.698	123.008	116.313	119.278	96.309	77.800	90.116
83	111.357	97.538	99.524	118.834	113.516	110.285	112.065	90.410	71.932	81.469
84	103.288	90.965	92.630	110.390	106.967	102.963	106.893	86.199	66.183	74.407
85	95.774	83.736	86.997	103.103	98.443	94.786	97.444	78.689	62.886	66.742
86	87.453	76.908	78.735	93.755	90.310	86.805	91.231	74.650	58.706	58.108
87	82.198	72.320	73.731	87.745	85.642	82.962	88.505	72.132	53.539	52.041
88	78.586	68.808	69.299	83.197	82.693	83.848	87.421	69.778	49.003	47.554
89	72.428	63.193	66.428	77.719	79.913	77.907	82.249	67.105	45.477	44.678
90	64.903	58.037	59.881	72.804	73.654	72.702	75.533	59.556	43.237	44.551
91	60.951	55.156	56.067	68.278	67.692	65.931	68.585	55.264	41.060	40.678
92	60.185	53.985	53.248	64.321	63.201	61.878	62.866	52.834	38.519	39.515

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

93	57.555	52.847	51.793	60.955	59.334	58.103	58.244	49.052	37.759	39.023
94	56.233	51.177	49.394	58.285	56.238	53.712	52.578	47.080	38.309	39.233
95	54.585	49.901	47.686	55.416	52.754	48.842	46.825	42.790	36.980	40.523
96	53.248	48.552	46.353	53.425	48.877	43.250	40.440	37.825	36.562	38.957
97	51.948	48.064	44.835	51.183	44.670	38.105	36.244	35.788	35.366	37.163
98	51.147	47.311	43.774	49.178	41.346	34.447	34.505	35.658	35.052	36.819
99	49.178	45.947	43.027	46.411	38.141	32.552	34.574	35.899	35.186	36.831
100	47.937	45.277	41.826	43.239	35.883	32.803	34.963	36.329	35.574	37.259
101	47.020	44.508	40.232	41.238	35.708	33.768	35.689	36.851	35.998	37.736
102	45.900	43.827	39.099	39.643	36.254	34.515	36.334	37.369	36.441	38.293
103	44.810	42.994	38.083	39.520	36.877	35.146	37.052	37.916	37.037	38.843
104	42.847	41.014	37.500	39.444	37.363	36.078	37.558	38.389	37.609	39.449
105	40.720	38.841	37.158	39.491	37.612	36.760	38.192	38.711	37.933	40.046
106	37.887	38.405	37.208	39.492	37.928	37.032	38.427	39.066	38.217	40.432
107	38.149	39.063	37.723	40.057	38.281	37.279	38.660	39.281	38.595	40.510
108	38.793	39.573	38.227	40.419	38.845	37.665	38.600	39.382	38.917	40.325
109	39.314	39.877	38.440	40.670	39.170	37.920	38.744	39.273	38.795	40.459
110	39.497	40.275	38.793	40.578	39.223	37.797	38.678	39.231	38.605	40.282
111	39.353	40.361	38.716	40.440	39.162	37.640	38.314	39.089	38.238	39.826
112	38.589	39.758	38.238	40.138	38.760	37.259	38.278	38.853	37.905	39.552
113	37.336	38.952	37.654	39.436	38.152	36.664	37.868	38.470	37.559	39.353
114	37.198	38.706	37.478	39.421	37.956	36.413	37.417	38.128	37.389	39.150
115	37.381	38.666	37.328	39.626	38.392	36.847	37.799	38.034	37.434	38.898
116	37.888	38.760	37.465	39.705	39.109	37.475	38.415	38.311	37.589	39.190
117	38.592	39.078	37.905	40.122	39.925	38.296	39.026	38.698	37.888	39.429
118	39.383	39.610	38.430	40.774	40.863	39.129	39.529	39.041	38.352	39.631
119	40.099	40.031	38.990	41.323	41.610	39.572	39.831	39.314	38.772	39.844
120	40.604	40.244	39.277	41.633	42.159	39.913	40.168	39.682	39.163	40.161
121	40.971	40.619	39.634	42.127	42.667	40.768	40.763	40.140	39.469	40.725
122	41.547	41.029	40.153	42.676	43.084	41.714	41.471	40.536	39.831	41.334
123	42.160	41.133	40.736	43.355	43.614	42.263	42.155	41.009	40.239	42.200
124	42.512	41.169	41.088	43.721	44.106	42.720	42.575	41.488	40.515	42.980
125	42.686	41.324	41.362	43.731	44.242	43.236	43.128	41.805	40.632	43.564
126	42.572	41.339	41.029	44.035	44.281	43.601	43.477	41.582	40.285	43.824
127	42.659	40.733	40.277	44.010	44.503	43.731	43.432	41.224	40.089	43.779
128	42.487	40.003	39.636	43.531	44.526	43.698	43.027	40.981	39.951	43.472
129	42.244	39.489	39.114	42.904	44.295	43.412	42.743	40.896	39.818	43.302
130	41.964	39.121	39.035	42.719	43.969	43.103	42.659	40.915	39.842	43.108
131	41.359	38.929	38.896	42.613	43.604	42.709	42.581	40.948	39.813	43.049
132	40.987	38.850	38.762	42.682	43.487	42.605	42.894	41.068	40.135	43.530
133	41.113	39.132	38.936	43.166	43.622	42.861	43.360	41.280	40.596	43.882
134	41.547	39.522	39.185	43.589	43.796	43.234	43.763	41.465	41.072	44.524
135	41.678	39.575	39.353	43.677	43.882	43.500	44.098	41.732	41.612	45.276
136	41.491	39.818	39.421	43.558	44.032	43.639	44.326	42.248	41.997	45.760
137	41.425	40.191	39.644	43.553	44.280	43.929	44.534	42.720	42.193	46.158
138	41.521	40.602	39.899	43.622	44.539	44.078	44.641	43.067	42.398	46.340
139	41.760	40.706	39.927	43.431	44.567	44.235	44.630	43.156	42.654	46.381
140	41.919	40.697	39.895	43.515	44.483	44.169	44.610	43.082	42.659	46.407
141	41.886	40.607	39.834	43.520	44.045	43.903	44.354	42.978	42.562	46.163
142	41.643	40.312	39.770	43.315	43.470	43.384	43.936	42.842	42.461	45.755
143	41.197	39.748	39.651	42.877	42.705	42.780	43.449	42.540	42.182	45.344
144	40.782	39.320	39.527	42.429	41.741	42.201	42.851	42.092	41.841	44.784
145	40.257	38.795	39.403	41.959	40.748	41.546	42.160	41.409	41.413	44.220
146	39.532	37.726	38.727	41.181	39.593	40.796	41.501	40.715	40.670	43.432
147	38.722	36.595	37.713	40.343	38.739	40.018	40.878	39.790	39.453	42.581
148	37.705	35.488	36.821	39.783	38.347	39.459	40.125	38.838	38.111	41.463

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

149	37.108	34.460	35.861	39.122	37.528	38.831	39.362	38.182	37.125	40.406
150	36.735	34.305	35.841	38.243	36.382	37.944	38.613	37.991	36.745	39.686
151	36.193	33.785	36.177	37.211	36.053	37.313	38.750	38.050	36.515	39.273
152	35.511	32.676	35.088	35.042	35.407	36.978	38.693	37.853	35.967	38.985
153	34.730	31.893	33.051	32.873	34.477	35.952	37.561	36.925	35.065	38.245
154	33.889	31.082	31.014	30.704	32.909	34.037	35.341	35.676	34.082	37.079
155	32.760	29.192	28.979	28.576	31.341	32.124	33.854	34.652	33.035	35.940
156	30.998	27.753	27.107	26.514	29.772	30.215	32.366	33.215	31.989	34.784
157	29.364	25.976	25.315	24.872	28.108	28.474	30.877	31.777	30.942	32.974
158	27.580	24.263	23.713	23.318	26.238	26.655	29.248	30.337	29.627	31.163
159	25.637	22.609	22.204	21.885	23.881	24.654	26.802	28.255	27.976	29.347
160	23.884	21.198	20.668	20.443	21.679	22.754	24.699	26.111	25.804	27.147
161	22.584	19.948	19.165	18.904	19.920	20.722	22.981	23.965	23.627	24.682
162	21.514	18.684	17.975	17.937	18.294	18.725	21.387	22.057	21.714	22.322
163	20.387	17.544	16.660	16.931	16.744	16.967	19.839	20.308	19.862	20.590
164	19.431	16.444	15.137	15.499	15.324	15.141	18.325	18.641	17.919	19.001
165	18.443	15.343	13.720	14.001	13.992	13.465	16.516	16.764	15.796	17.443
166	17.055	13.965	12.312	12.498	12.636	12.205	14.369	14.851	13.698	15.048
167	15.271	12.584	10.767	10.843	11.067	10.946	12.616	12.941	11.711	12.099
168	13.475	11.260	9.194	9.128	9.249	9.559	10.825	10.653	9.393	9.089
169	11.684	9.626	7.371	7.278	7.058	7.767	8.432	7.926	6.814	6.640
170	9.173	7.562	5.554	5.452	5.108	5.648	6.077	5.715	4.835	4.464
171	6.787	5.660	4.174	4.099	3.703	4.122	4.272	4.091	3.461	3.123
172	4.832	4.103	3.163	3.134	2.757	2.964	3.130	2.990	2.579	2.185
173	3.524	2.979	2.476	2.461	2.112	2.252	2.243	2.069	1.896	1.783
174	2.284	2.015	1.949	1.950	1.741	1.829	1.807	1.658	1.633	1.608
175	1.478	1.405	1.676	1.685	1.675	1.671	1.647	1.633	1.599	1.581
176	1.366	1.343	1.637	1.641	1.643	1.636	1.614	1.602	1.575	1.554
177	1.383	1.364	1.601	1.605	1.605	1.600	1.576	1.560	1.539	1.526
178	1.399	1.385	1.562	1.567	1.565	1.559	1.536	1.518	1.501	1.493
179	1.416	1.406	1.545	1.544	1.537	1.529	1.509	1.490	1.476	1.468
180	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523	1.523

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	1161.524	1161.524	1161.524	1161.524	1161.524
1	1158.881	1152.289	1156.849	1148.704	1158.781
2	1180.208	1175.186	1175.136	1160.433	1156.353
3	1189.062	1181.083	1201.320	1186.105	1191.672
4	1271.727	1269.497	1255.521	1225.042	1210.141
5	1325.764	1367.261	1300.488	1242.735	1211.546
6	1308.533	1370.152	1265.202	1214.585	1193.936
7	1326.259	1382.096	1253.754	1153.462	1153.743
8	1318.924	1343.803	1261.683	1127.922	1132.069
9	1309.607	1339.607	1297.366	1125.329	1111.386
10	1253.803	1299.547	1295.152	1133.969	1094.949
11	1167.735	1222.300	1262.741	1097.576	1065.907
12	1060.555	1121.480	1194.282	1064.668	1029.250
13	971.034	1043.341	1124.354	1016.282	955.604
14	907.284	964.343	1049.883	939.679	893.193
15	870.445	903.336	970.984	879.580	825.527
16	841.552	870.263	921.590	825.874	784.360
17	809.057	831.293	890.153	799.344	755.351
18	776.629	791.794	854.586	791.910	747.108
19	755.682	773.688	830.004	763.512	746.910

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

20	749.437	768.039	809.206	757.433	741.376
21	765.742	790.918	827.741	758.507	742.449
22	799.360	820.208	842.080	767.345	744.432
23	834.977	859.459	854.817	767.345	734.768
24	863.077	888.154	859.971	765.957	724.575
25	881.678	903.402	868.429	773.854	716.596
26	886.832	917.592	884.008	775.472	717.339
27	898.479	930.081	902.840	775.687	715.968
28	893.011	933.534	905.797	779.024	731.959
29	886.932	936.937	910.456	777.736	745.489
30	892.565	936.623	923.655	785.070	746.001
31	901.486	947.625	941.992	788.705	737.659
32	890.285	917.774	936.177	776.844	716.778
33	843.071	866.645	900.032	748.430	686.216
34	798.220	828.716	865.489	713.358	646.403
35	771.822	797.906	832.449	677.527	613.942
36	745.704	763.925	792.983	647.874	597.752
37	721.040	744.779	779.834	628.876	579.482
38	696.508	727.730	766.139	623.160	566.910
39	676.701	708.518	752.807	609.696	557.262
40	682.730	706.634	743.688	600.941	559.096
41	712.565	729.614	755.797	606.805	577.169
42	766.205	775.836	805.786	638.226	608.209
43	806.348	811.254	840.032	659.916	637.350
44	831.656	833.127	847.614	673.314	655.886
45	835.274	844.310	849.498	673.264	655.440
46	820.192	822.603	820.505	655.968	635.583
47	794.487	798.105	780.643	623.077	605.385
48	753.997	756.871	736.486	592.433	569.025
49	720.263	725.038	698.788	560.054	532.433
50	685.572	684.316	659.718	527.907	503.738
51	650.930	650.269	626.315	501.227	475.919
52	616.436	610.522	592.499	475.225	447.406
53	588.386	581.084	563.243	450.148	429.036
54	563.490	546.326	536.068	430.324	406.007
55	537.257	514.641	508.975	407.676	388.794
56	510.247	489.779	480.412	388.067	370.258
57	488.243	469.394	457.978	368.524	359.074
58	471.954	444.052	436.437	354.944	345.545
59	458.243	427.912	414.845	341.349	337.384
60	450.181	415.836	400.490	327.852	330.165
61	441.905	407.841	390.330	321.641	324.052
62	434.520	403.860	382.318	313.182	318.155
63	411.310	388.017	371.183	305.022	307.880
64	391.057	363.716	354.911	299.471	297.026
65	357.736	339.416	338.639	295.060	280.771
66	324.416	314.967	322.103	283.001	261.360
67	288.865	272.742	290.055	258.750	243.155
68	252.571	247.566	265.704	236.250	230.996
69	225.066	226.949	245.815	218.854	218.078
70	196.387	204.515	227.593	203.458	203.739
71	166.867	179.719	206.977	188.392	186.542
72	141.315	155.204	183.783	168.898	165.628
73	117.132	128.314	158.587	149.367	143.843
74	109.801	110.138	132.266	128.402	122.043
75	102.950	98.488	106.046	106.278	100.242

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

76	98.712	93.557	95.795	88.936	91.077
77	95.570	91.430	91.407	83.328	86.998
78	93.654	88.219	87.120	80.076	83.038
79	91.513	84.875	84.167	77.024	80.068
80	89.707	82.084	81.872	74.793	76.850
81	85.632	78.155	78.601	72.286	71.551
82	81.074	74.303	75.657	69.167	66.752
83	74.793	69.117	71.914	66.367	62.622
84	68.708	63.410	66.677	62.608	58.079
85	60.137	54.669	59.711	57.723	52.161
86	51.900	49.617	55.145	52.607	47.899
87	47.375	46.323	50.607	48.993	43.523
88	44.324	43.528	48.094	46.457	41.357
89	42.401	43.908	47.978	45.400	40.574
90	41.063	40.376	45.960	44.800	38.779
91	39.537	39.472	44.418	42.947	38.014
92	39.745	39.740	43.551	42.555	38.736
93	37.558	38.699	43.262	43.234	39.757
94	37.591	38.171	42.276	41.632	37.222
95	39.656	38.167	40.733	40.834	36.634
96	36.130	36.163	40.099	40.404	36.180
97	35.156	35.612	39.002	39.484	35.983
98	35.070	35.258	38.683	39.375	35.713
99	35.275	35.443	38.331	39.059	35.579
100	35.825	35.893	38.075	38.665	35.641
101	36.372	36.408	38.184	38.916	35.945
102	37.189	37.074	38.665	39.268	36.114
103	38.020	37.663	38.937	39.527	36.263
104	38.542	38.351	39.135	39.595	36.487
105	39.309	39.028	39.477	39.814	36.781
106	39.796	39.800	39.600	40.067	37.179
107	40.041	39.912	39.408	40.133	37.401
108	39.880	39.732	39.178	39.866	37.488
109	39.690	39.489	38.962	39.684	37.326
110	39.344	39.066	38.788	39.228	36.973
111	38.736	38.565	38.703	38.964	36.557
112	38.524	38.247	38.704	38.899	36.185
113	38.278	38.075	38.369	38.471	35.866
114	38.182	38.136	38.313	38.164	35.914
115	38.260	38.255	38.466	38.162	36.081
116	38.759	38.769	39.016	38.600	36.433
117	39.208	39.296	39.515	39.086	37.024
118	39.585	39.803	39.989	39.507	37.545
119	39.985	40.155	40.252	39.905	37.986
120	40.350	40.487	40.490	40.346	38.219
121	40.692	40.797	40.738	40.728	38.412
122	41.128	41.336	41.248	40.961	38.575
123	41.729	42.028	41.916	41.148	38.729
124	42.307	42.646	42.476	41.443	38.679
125	42.880	43.320	42.844	41.638	38.417
126	43.151	43.667	42.953	41.336	38.128
127	43.156	43.670	42.799	40.962	37.934
128	43.080	43.545	42.768	40.893	37.837
129	42.968	43.414	42.618	40.996	38.065
130	42.951	43.264	42.600	41.232	38.073
131	43.145	43.497	43.064	41.468	38.081

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

CANDELA TABULATION - (Cont.)

132	43.546	43.979	43.738	41.975	38.090
133	43.967	44.404	44.447	42.514	38.098
134	44.742	44.978	44.990	42.788	38.108
135	45.529	45.757	45.317	42.824	38.260
136	46.424	46.566	45.433	42.861	38.453
137	47.266	47.098	45.570	42.927	38.600
138	47.698	47.527	45.684	42.947	38.841
139	47.873	47.693	45.618	43.018	39.175
140	47.931	47.564	45.439	42.981	39.410
141	47.511	47.141	45.248	42.902	39.530
142	46.789	46.604	45.023	42.801	39.426
143	46.156	46.065	44.633	42.639	39.192
144	45.601	45.651	44.098	42.281	38.843
145	45.205	45.249	43.619	41.883	38.425
146	44.668	44.764	42.970	41.271	37.830
147	43.751	43.915	42.243	40.545	37.275
148	42.547	42.927	41.380	39.545	36.991
149	41.703	42.221	40.616	38.833	36.748
150	41.379	41.974	40.032	38.645	36.492
151	41.052	41.782	40.127	38.891	35.962
152	40.285	41.253	40.526	38.902	35.300
153	38.858	40.338	39.834	37.906	34.516
154	37.366	39.053	37.685	36.101	33.720
155	35.767	37.196	35.845	34.774	32.937
156	34.052	34.979	34.001	33.306	32.027
157	32.338	32.764	32.157	31.839	30.910
158	30.611	30.548	30.312	30.363	29.100
159	28.407	28.531	28.208	28.474	27.059
160	26.298	26.387	26.336	26.678	25.350
161	24.420	24.187	24.391	24.694	23.912
162	22.612	21.846	22.493	22.627	22.409
163	20.577	19.545	20.506	20.448	20.962
164	18.719	17.612	18.669	18.309	19.647
165	16.728	15.935	17.043	16.493	18.206
166	14.477	14.197	15.334	14.827	15.396
167	11.954	12.273	13.327	13.013	12.554
168	9.014	9.337	10.344	10.342	9.711
169	6.427	6.600	7.431	7.519	6.998
170	4.382	4.530	5.235	5.229	4.652
171	2.997	3.267	3.637	3.781	3.067
172	2.042	2.256	2.533	2.685	1.896
173	1.675	1.757	1.853	1.912	1.417
174	1.623	1.642	1.641	1.639	1.335
175	1.597	1.609	1.609	1.609	1.372
176	1.563	1.576	1.567	1.564	1.400
177	1.526	1.535	1.523	1.524	1.430
178	1.487	1.493	1.482	1.478	1.462
179	1.462	1.470	1.458	1.451	1.492
180	1.523	1.523	1.523	1.523	1.523

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	400.91	N.A.	12.80
0-30	791.12	N.A.	25.30
0-40	1261.61	N.A.	40.40
0-60	2308.47	N.A.	74.00
0-80	2789.59	N.A.	89.40
0-90	2875.65	N.A.	92.10
10-90	2756.37	N.A.	88.30
20-40	860.70	N.A.	27.60
20-50	1411.97	N.A.	45.20
40-70	1382.02	N.A.	44.30
60-80	481.12	N.A.	15.40
70-80	145.96	N.A.	4.70
80-90	86.06	N.A.	2.80
90-110	90.92	N.A.	2.90
90-120	129.48	N.A.	4.10
90-130	167.09	N.A.	5.40
90-150	225.33	N.A.	7.20
90-180	245.64	N.A.	7.90
110-180	154.72	N.A.	5.00
0-180	3121.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	119.28
10-20	281.63
20-30	390.20
30-40	470.49
40-50	551.28
50-60	495.59
60-70	335.15
70-80	145.96
80-90	86.06
90-100	49.42
100-110	41.50
110-120	38.56
120-130	37.61
130-140	32.74
140-150	25.51
150-160	15.16
160-170	4.87
170-180	0.28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_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

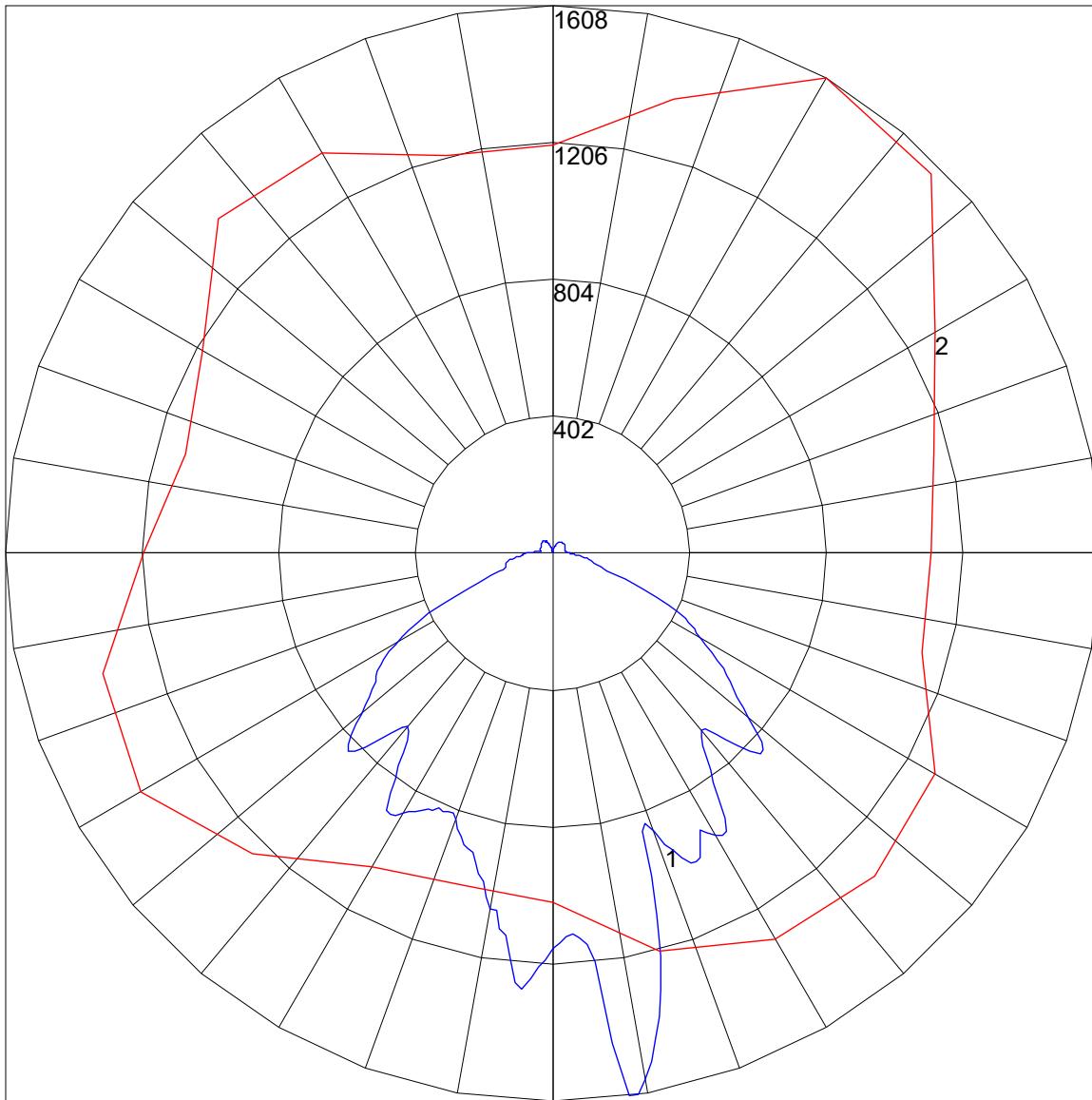
IES INDOOR REPORT
PHOTOMETRIC FILENAME : HZCAS100HTHOWT50120-277V_P.IES

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	22.4	23.8	22.8	24.3	24.8	23.9	25.3	24.4	25.8	26.3
	3H	23.6	24.9	24.1	25.4	26.0	24.5	25.8	25.0	26.3	26.8
	4H	23.8	25.1	24.3	25.6	26.1	24.6	25.9	25.1	26.4	26.9
	6H	23.9	25.1	24.5	25.6	26.2	24.8	25.9	25.3	26.4	27.0
	8H	23.9	25.0	24.5	25.6	26.2	24.8	26.0	25.4	26.5	27.1
	12H	24.0	25.0	24.5	25.6	26.2	24.9	26.0	25.5	26.5	27.1
4H	2H	23.1	24.3	23.6	24.8	25.4	24.4	25.6	24.9	26.1	26.7
	3H	24.4	25.4	24.9	26.0	26.6	25.0	26.1	25.6	26.6	27.2
	4H	24.6	25.6	25.2	26.1	26.7	25.2	26.2	25.8	26.7	27.4
	6H	24.8	25.6	25.3	26.2	26.8	25.5	26.3	26.1	26.9	27.6
	8H	24.8	25.6	25.4	26.2	26.8	25.6	26.4	26.2	27.0	27.6
	12H	24.9	25.6	25.5	26.2	26.8	25.7	26.4	26.4	27.1	27.7
8H	4H	24.7	25.4	25.2	26.0	26.7	25.3	26.1	25.9	26.7	27.3
	6H	24.9	25.5	25.5	26.1	26.8	25.7	26.3	26.3	27.0	27.6
	8H	25.0	25.6	25.6	26.2	26.9	25.9	26.5	26.5	27.1	27.8
	12H	25.1	25.6	25.7	26.2	26.9	26.1	26.6	26.7	27.2	27.9
12H	4H	24.6	25.3	25.2	26.0	26.6	25.3	26.0	25.9	26.6	27.3
	6H	24.9	25.5	25.5	26.1	26.8	25.7	26.3	26.4	26.9	27.6
	8H	25.0	25.5	25.6	26.1	26.9	25.9	26.4	26.6	27.1	27.8

Maximum UGR = 27.9

POLAR GRAPH



Maximum Candela = 1607.938 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.)