



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Centre Testing International Corporation

[TESTDATE] 2019-03-20

[ISSUEDATE] 2019-03-20 11:31:20

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] Tamlite Lighting Canada

[MORE] 10 PERDUE CRT. CALEDON, ON

[LUMCAT] HBX505K-UNV

[LUMINAIRE] 2FT 50W LED Linear Highbay

[MORE] 6195 lumens

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6195
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	52.39
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.60 m
Luminous Width (90-270)	0.41 m
Luminous Height	0.07 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8042	7421	7471
55	7253	6407	6609
65	5233	4828	5119
75	3100	2288	2725
85	240	185	318

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031
1	2218.784	2220.213	2218.475	2215.097	2215.939	2211.868	2223.817	2213.281	2212.917	2216.780
2	2218.823	2222.322	2218.185	2220.385	2227.825	2221.528	2221.195	2210.048	2213.203	2219.610
3	2218.823	2224.479	2226.127	2221.320	2228.084	2217.418	2230.487	2219.352	2206.154	2215.895
4	2223.551	2231.880	2219.559	2223.966	2221.645	2217.614	2218.835	2212.498	2205.790	2219.320
5	2226.917	2229.653	2217.907	2226.964	2227.418	2216.768	2218.780	2212.972	2210.768	2212.330
6	2227.270	2221.997	2221.731	2215.066	2228.972	2220.189	2216.177	2209.218	2204.197	2216.905
7	2233.465	2231.505	2217.903	2219.504	2226.021	2215.970	2215.289	2205.116	2211.919	2209.437
8	2238.608	2229.395	2228.174	2224.862	2226.299	2208.420	2218.749	2209.735	2205.015	2203.880
9	2230.209	2234.131	2219.676	2221.950	2228.596	2209.437	2218.494	2201.660	2194.008	2202.815
10	2237.207	2233.266	2229.935	2229.336	2229.833	2205.132	2205.856	2198.877	2189.817	2194.224
11	2222.647	2226.714	2223.723	2225.277	2235.066	2205.676	2205.962	2188.638	2188.893	2183.276
12	2208.377	2219.539	2216.612	2214.338	2225.469	2199.680	2204.517	2187.386	2176.454	2180.775
13	2189.319	2202.087	2198.220	2206.999	2214.361	2201.014	2196.247	2173.769	2169.992	2175.049
14	2169.428	2181.554	2185.542	2189.648	2207.974	2194.772	2192.909	2167.381	2159.761	2164.606
15	2149.076	2170.798	2164.959	2174.634	2195.237	2182.075	2183.065	2159.632	2151.596	2153.303
16	2142.332	2154.818	2159.683	2152.872	2182.556	2178.411	2176.959	2149.917	2153.225	2143.463
17	2123.349	2145.772	2145.878	2138.782	2162.156	2161.722	2164.873	2147.995	2133.878	2137.541
18	2111.666	2130.613	2126.895	2131.729	2154.927	2155.788	2160.849	2139.498	2124.010	2124.320
19	2099.939	2115.615	2118.644	2120.132	2133.478	2137.553	2148.716	2125.322	2112.899	2115.678
20	2086.056	2100.182	2093.199	2103.399	2115.541	2116.691	2132.891	2114.820	2093.070	2100.174
21	2076.334	2092.225	2091.849	2082.549	2098.863	2101.270	2120.668	2102.006	2085.763	2079.246
22	2071.688	2077.645	2078.416	2070.655	2084.080	2075.731	2104.307	2087.962	2073.034	2064.510
23	2064.850	2060.600	2064.428	2052.603	2060.063	2066.533	2085.047	2080.131	2058.921	2056.016
24	2044.795	2048.263	2040.552	2044.920	2043.143	2050.447	2066.032	2066.083	2038.666	2045.891
25	2029.436	2031.339	2033.961	2031.202	2035.370	2025.088	2042.290	2051.551	2019.902	2023.335
26	2020.884	2022.708	2006.747	2014.458	2018.235	2009.506	2022.826	2032.454	2004.457	2002.997
27	2002.293	2008.438	1995.749	1993.208	1998.453	1984.281	1994.715	2005.800	1987.694	1985.439
28	1982.300	1989.756	1984.465	1980.633	1991.271	1960.366	1969.771	1987.420	1959.744	1957.442
29	1969.627	1972.190	1962.421	1960.906	1971.916	1946.147	1948.929	1970.088	1946.608	1937.962
30	1957.579	1955.348	1944.072	1941.540	1941.281	1926.917	1929.289	1944.984	1921.097	1921.571
31	1935.727	1933.727	1924.991	1921.825	1930.424	1910.533	1896.607	1919.023	1902.920	1903.621
32	1921.113	1914.666	1909.829	1909.210	1901.049	1893.523	1876.740	1898.317	1880.505	1880.383
33	1897.014	1894.873	1886.912	1875.010	1887.280	1857.729	1854.144	1868.004	1859.534	1858.312
34	1866.489	1880.094	1871.076	1856.426	1866.356	1834.496	1829.455	1839.662	1828.394	1828.762
35	1847.158	1857.698	1851.690	1841.392	1841.377	1813.294	1805.947	1811.501	1803.411	1804.303
36	1812.417	1822.613	1822.084	1815.552	1816.264	1789.633	1777.152	1783.308	1785.019	1781.469
37	1787.371	1795.231	1805.865	1793.497	1780.326	1764.874	1754.760	1754.231	1759.644	1756.404
38	1773.563	1773.469	1768.470	1764.901	1758.384	1740.982	1725.303	1724.281	1735.409	1732.853
39	1740.979	1751.202	1743.487	1741.331	1735.382	1710.387	1706.011	1699.161	1706.050	1696.602
40	1711.843	1725.045	1717.890	1714.872	1705.486	1683.752	1672.268	1666.342	1680.261	1674.347
41	1680.730	1691.494	1690.010	1683.552	1679.580	1644.522	1649.731	1634.091	1648.107	1643.305
42	1649.759	1664.158	1662.014	1658.804	1643.626	1620.823	1614.028	1606.274	1621.625	1612.263
43	1625.375	1630.525	1622.298	1627.496	1620.764	1587.002	1583.526	1571.941	1587.839	1581.229
44	1590.857	1600.345	1590.849	1591.205	1586.250	1560.680	1550.672	1540.320	1566.657	1550.543
45	1552.046	1562.688	1557.768	1553.882	1554.782	1532.492	1516.522	1509.372	1523.411	1513.837
46	1524.174	1528.534	1518.519	1525.583	1517.818	1499.242	1489.809	1475.402	1495.481	1481.015
47	1489.398	1491.246	1487.171	1489.124	1491.841	1464.807	1454.990	1440.270	1456.677	1447.100
48	1453.523	1451.029	1452.446	1449.382	1448.638	1423.440	1419.944	1408.590	1422.019	1414.895
49	1411.373	1415.925	1409.878	1413.639	1416.148	1386.323	1384.906	1371.438	1394.116	1377.227
50	1381.110	1379.838	1371.665	1370.334	1375.755	1352.389	1349.101	1340.232	1360.033	1346.303
51	1350.189	1342.060	1340.870	1326.666	1334.400	1314.306	1314.309	1301.393	1319.237	1311.049
52	1305.879	1302.798	1300.830	1287.060	1292.235	1274.324	1277.929	1263.314	1282.403	1267.396
53	1265.067	1260.167	1263.467	1245.599	1246.292	1235.078	1239.853	1227.305	1237.501	1231.513

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

54	1226.186	1220.534	1224.064	1208.792	1206.432	1193.465	1205.481	1186.952	1192.064	1194.154
55	1185.386	1180.592	1180.224	1170.787	1162.853	1154.411	1167.186	1146.023	1158.360	1153.718
56	1145.150	1140.962	1136.403	1129.271	1114.445	1112.418	1125.522	1115.377	1106.997	1110.269
57	1101.345	1098.730	1092.758	1086.820	1079.321	1066.545	1085.035	1069.054	1066.894	1071.242
58	1064.091	1058.847	1049.285	1040.568	1031.840	1022.897	1039.899	1022.885	1023.746	1030.353
59	1009.198	1011.816	1010.184	1002.642	992.082	979.929	999.812	985.792	984.731	988.516
60	962.875	969.110	964.437	957.314	948.253	927.825	947.881	943.458	937.039	947.810
61	914.334	919.125	918.084	914.275	900.083	881.472	909.829	904.835	888.881	900.643
62	848.250	850.594	870.254	875.945	856.779	835.185	861.213	864.070	845.322	859.283
63	781.939	781.728	790.209	825.842	813.478	788.898	814.621	819.643	801.846	815.631
64	715.632	712.857	709.941	775.559	770.177	742.611	768.036	775.125	758.373	768.526
65	674.586	672.437	661.298	697.483	729.264	701.084	720.618	732.169	710.340	722.994
66	638.914	633.692	621.684	620.408	680.590	654.202	674.464	685.204	668.135	678.069
67	594.948	591.766	581.503	575.358	622.361	606.564	622.032	642.734	620.815	628.992
68	554.766	549.197	538.500	534.065	544.488	565.326	574.802	594.149	571.659	586.031
69	512.127	507.278	497.180	494.706	487.986	522.460	529.838	548.649	530.140	542.359
70	474.471	472.709	455.504	454.094	444.388	469.116	485.328	502.354	487.931	498.201
71	434.106	431.554	418.912	410.195	408.222	416.172	443.644	459.210	443.742	451.566
72	392.805	387.506	379.627	374.848	371.873	354.644	403.306	413.518	400.316	408.927
73	355.642	353.884	340.522	340.635	329.891	314.494	363.615	367.646	357.794	366.123
74	318.694	313.179	304.450	298.853	295.992	279.428	320.517	322.490	316.744	323.316
75	280.407	277.600	268.884	266.708	264.700	243.001	274.371	281.988	278.015	282.329
76	240.414	237.776	231.447	232.390	227.313	209.873	223.595	242.367	242.605	242.969
77	190.573	187.038	194.013	197.939	195.269	183.019	189.449	206.644	206.542	207.348
78	154.615	152.125	151.026	162.196	166.306	151.734	159.672	172.239	173.617	173.011
79	110.289	112.688	120.900	124.070	136.172	125.338	129.667	142.650	140.963	140.908
80	61.712	65.336	79.869	96.124	100.739	102.570	107.056	108.907	111.291	112.015
81	34.443	35.766	41.293	58.166	77.196	77.607	83.482	82.852	85.388	86.903
82	24.435	24.885	26.737	29.876	47.328	56.800	64.565	62.550	62.217	64.217
83	19.550	19.648	20.412	21.202	24.490	37.966	44.980	45.868	44.537	45.379
84	15.809	15.914	16.004	16.470	17.417	19.848	29.680	31.821	30.177	31.120
85	11.820	12.102	12.337	12.615	12.846	13.268	15.629	19.715	18.603	20.004
86	8.035	8.219	8.482	8.885	9.304	9.444	9.343	10.427	10.787	11.973
87	4.650	4.752	4.912	5.131	5.546	5.562	5.985	6.055	5.534	6.051
88	1.781	1.863	1.930	1.934	1.941	2.031	2.352	2.615	2.720	3.264
89	0.231	0.219	0.290	0.282	0.309	0.329	0.364	0.427	0.415	1.088
90	0.110	0.137	0.137	0.188	0.215	0.211	0.215	0.239	0.297	0.540
91	0.110	0.137	0.137	0.160	0.188	0.211	0.211	0.211	0.266	0.568
92	0.110	0.137	0.137	0.160	0.188	0.184	0.211	0.211	0.243	0.618
93	0.110	0.137	0.137	0.160	0.188	0.184	0.211	0.211	0.243	0.701
94	0.110	0.137	0.137	0.160	0.188	0.184	0.211	0.211	0.243	0.755
95	0.110	0.137	0.137	0.160	0.188	0.184	0.235	0.211	0.243	0.865
96	0.110	0.137	0.160	0.160	0.188	0.207	0.211	0.211	0.266	0.998
97	0.160	0.192	0.188	0.160	0.215	0.184	0.313	0.341	0.294	1.053
98	0.192	0.164	0.215	0.321	0.294	0.341	0.368	0.321	0.321	1.190
99	0.321	0.376	0.297	0.321	0.348	0.341	0.391	0.317	0.376	1.323
100	0.352	0.513	0.380	0.403	0.372	0.391	0.395	0.395	0.348	1.433
101	0.380	0.654	0.380	0.403	0.376	0.395	0.395	0.423	0.399	1.566
102	0.407	0.947	0.407	0.431	0.399	0.446	0.470	0.427	0.427	1.699
103	0.462	1.245	0.458	0.431	0.505	0.497	0.474	0.505	0.505	1.808
104	0.489	1.252	0.485	0.536	0.614	0.575	0.603	0.583	0.560	1.941
105	0.571	1.225	0.568	0.591	0.720	0.654	0.630	0.716	0.642	2.106
106	0.759	1.198	0.673	0.779	0.798	0.708	0.681	0.771	0.748	2.290
107	0.791	1.198	0.888	0.779	0.775	0.736	0.736	0.795	0.802	2.427
108	0.791	1.252	1.487	0.806	0.775	0.787	0.814	0.795	0.830	2.587
109	0.896	1.252	2.024	0.888	0.857	0.838	0.865	0.849	0.908	2.642

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

110	0.951	1.252	2.164	0.939	0.908	0.916	0.920	0.849	0.912	2.693
111	1.139	1.331	2.219	1.045	0.990	1.045	0.947	0.900	0.963	2.720
112	1.249	1.413	2.247	1.127	1.069	1.076	0.971	1.006	1.014	2.806
113	1.280	1.546	2.247	1.155	1.151	1.178	1.049	1.061	1.174	2.936
114	1.280	1.605	2.462	1.311	1.202	1.182	1.100	1.112	1.206	3.182
115	1.280	1.660	2.489	1.636	1.256	1.233	1.182	1.166	1.206	3.370
116	1.280	1.632	2.489	2.227	1.229	1.206	1.155	1.143	1.229	3.452
117	1.335	1.632	2.489	2.857	1.284	1.206	1.209	1.143	1.206	3.636
118	1.335	1.632	2.356	3.272	1.311	1.206	1.233	1.166	1.206	3.746
119	1.386	1.632	2.329	3.303	1.440	1.206	1.284	1.194	1.233	3.937
120	1.468	1.660	2.301	3.358	1.679	1.206	1.260	1.272	1.311	4.098
121	1.550	1.687	2.301	3.386	1.996	1.206	1.311	1.405	1.421	4.282
122	1.577	1.742	2.301	3.386	2.587	1.256	1.417	1.538	1.632	4.282
123	1.660	1.769	2.301	3.386	3.139	1.284	1.546	1.593	1.632	4.286
124	1.632	1.930	2.301	3.413	3.393	1.468	1.577	1.593	1.710	4.313
125	1.687	2.012	2.301	3.280	3.476	1.675	1.577	1.695	1.843	4.337
126	1.769	2.067	2.329	3.119	3.448	2.016	1.577	1.750	1.902	4.372
127	1.851	2.121	2.329	2.932	3.558	2.638	1.628	1.777	1.953	4.607
128	2.094	2.149	2.384	2.767	3.687	2.857	1.890	1.883	2.031	4.802
129	2.121	2.176	2.407	2.740	3.718	2.861	2.047	1.988	2.086	5.210
130	2.121	2.204	2.462	2.712	3.718	2.912	2.102	2.094	2.063	5.801
131	2.121	2.176	2.438	2.740	3.636	2.889	2.509	2.360	2.192	6.305
132	2.149	2.176	2.435	2.689	3.452	3.194	3.260	2.438	2.403	6.818
133	2.149	2.231	2.435	2.662	3.213	3.253	3.644	2.677	2.489	6.924
134	2.149	2.258	2.435	2.662	3.002	3.280	3.703	3.413	2.489	6.900
135	2.176	2.231	2.435	2.662	2.810	3.280	3.910	3.738	2.881	6.979
136	2.153	2.231	2.489	2.662	2.806	3.307	4.039	3.742	3.664	8.165
137	2.176	2.231	2.462	2.662	2.806	3.178	4.098	3.793	3.640	8.536
138	2.204	2.258	2.462	2.662	2.755	3.072	4.121	3.797	3.640	8.325
139	2.231	2.341	2.462	2.662	2.755	3.018	4.125	3.953	3.667	8.325
140	2.231	2.341	2.517	2.662	2.728	3.018	4.125	3.930	3.722	8.298
141	2.286	2.395	2.544	2.685	2.728	2.990	4.149	3.930	3.773	8.298
142	2.423	2.501	2.544	2.685	2.701	2.990	4.020	3.902	3.773	8.243
143	2.478	2.560	2.599	2.712	2.701	3.018	3.887	3.902	3.773	8.270
144	2.478	2.532	2.599	2.767	2.701	3.276	3.757	3.824	3.773	8.243
145	2.505	2.532	2.626	2.767	2.701	3.253	3.652	3.691	3.773	8.129
146	2.505	2.532	2.626	2.767	2.755	3.253	3.546	3.585	3.800	7.945
147	2.505	2.532	2.626	2.767	2.885	3.253	3.495	3.581	3.800	7.534
148	2.505	2.532	2.654	2.767	2.967	3.253	3.390	3.530	3.750	7.080
149	2.532	2.560	2.787	2.767	2.943	3.253	3.335	3.503	3.750	6.814
150	2.587	2.611	2.920	2.767	3.072	3.253	3.260	3.530	3.750	6.763
151	2.665	2.665	2.975	2.924	3.076	3.307	3.206	3.476	3.750	6.763
152	2.669	2.720	3.006	3.217	3.076	3.229	3.178	3.397	3.750	6.869
153	2.693	2.775	3.033	3.382	3.076	3.174	3.151	3.397	3.695	6.924
154	2.697	2.802	3.163	3.386	3.178	3.123	3.151	3.319	3.667	6.924
155	2.802	2.936	3.249	3.386	3.315	2.967	3.100	3.292	3.589	6.842
156	2.912	3.022	3.249	3.386	3.370	2.912	3.072	3.241	3.589	6.842
157	2.994	3.022	3.249	3.386	3.315	2.889	2.943	3.186	3.589	6.842
158	3.049	3.022	3.249	3.386	3.315	2.861	2.736	3.186	3.589	6.842
159	3.022	3.022	3.249	3.386	3.315	2.861	2.705	2.869	3.589	6.818
160	3.072	3.022	3.249	3.386	3.315	2.861	2.705	2.865	3.217	6.572
161	3.076	3.049	3.276	3.413	3.343	2.885	2.732	2.842	3.135	6.223
162	3.319	3.260	3.331	3.436	3.370	3.147	2.861	2.967	3.319	6.196
163	3.585	3.530	3.597	3.601	3.421	3.253	3.354	3.386	3.718	6.196
164	3.914	3.918	3.949	3.973	3.609	3.433	3.781	4.043	4.149	6.223
165	4.106	4.078	4.247	4.192	3.742	3.593	3.961	4.266	4.685	6.305

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

166	4.192	4.247	4.356	4.298	3.820	3.722	4.094	4.431	4.791	6.305
167	4.356	4.356	4.595	4.482	3.930	3.855	4.176	4.564	4.924	6.274
168	4.517	4.599	4.736	4.724	4.145	4.086	4.282	4.591	4.979	6.063
169	4.732	4.709	4.842	4.861	4.251	4.145	4.384	4.646	5.006	5.953
170	4.842	4.842	4.979	5.022	4.411	4.196	4.536	4.748	5.084	5.844
171	5.084	5.033	5.116	5.186	4.622	4.301	4.544	4.802	5.139	5.711
172	5.225	5.198	5.249	5.347	4.626	4.509	4.595	4.857	5.194	5.632
173	5.413	5.413	5.437	5.480	4.654	4.540	4.650	4.885	5.354	5.495
174	5.581	5.550	5.574	5.534	4.787	4.665	4.673	4.936	5.327	5.225
175	5.636	5.632	5.683	5.613	4.893	4.720	4.701	4.963	5.327	5.120
176	5.660	5.714	5.848	5.750	4.998	4.877	4.756	4.963	5.327	5.065
177	5.742	5.742	5.981	5.910	5.108	4.932	4.857	4.963	5.249	5.065
178	5.797	5.797	6.086	6.043	5.268	4.959	4.885	4.963	5.139	5.065
179	5.957	5.961	6.145	6.153	5.323	5.010	4.986	4.963	5.088	5.065
180	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031
1	2219.915	2219.618	2223.630	2219.375	2215.578	2221.747	2230.910	2223.242	2219.097	2220.068
2	2216.995	2216.138	2222.217	2223.469	2212.326	2219.449	2220.573	2226.217	2214.338	2227.512
3	2216.271	2217.915	2223.027	2228.679	2211.798	2223.003	2233.430	2222.831	2217.931	2228.174
4	2223.054	2218.788	2230.937	2234.135	2215.864	2225.054	2232.507	2230.917	2218.913	2230.581
5	2210.807	2215.786	2219.653	2229.700	2215.398	2223.927	2229.250	2226.827	2212.866	2232.334
6	2218.025	2213.786	2222.467	2224.835	2221.602	2227.735	2231.360	2224.722	2217.363	2229.356
7	2204.506	2218.056	2220.639	2220.459	2215.575	2226.166	2234.037	2224.659	2221.238	2232.326
8	2206.216	2206.702	2216.322	2221.598	2214.850	2222.393	2233.990	2222.933	2221.504	2232.045
9	2197.061	2206.388	2209.437	2219.923	2210.279	2224.420	2230.326	2223.352	2218.698	2232.416
10	2198.819	2203.660	2203.934	2226.029	2210.220	2217.066	2226.377	2216.381	2211.919	2236.213
11	2198.924	2192.220	2203.562	2216.064	2207.042	2219.508	2218.627	2208.713	2201.269	2222.029
12	2183.433	2190.588	2200.463	2215.762	2196.607	2203.183	2211.277	2200.263	2198.944	2204.549
13	2177.859	2183.601	2188.858	2213.434	2191.433	2193.946	2202.553	2194.423	2185.253	2199.950
14	2171.421	2172.145	2186.987	2200.858	2181.675	2182.944	2186.995	2173.644	2172.806	2188.149
15	2159.929	2170.188	2175.769	2189.331	2169.624	2175.460	2174.712	2166.372	2155.056	2171.202
16	2150.751	2160.622	2169.609	2169.190	2157.428	2160.332	2158.778	2147.588	2144.532	2158.696
17	2148.293	2153.612	2163.589	2162.469	2150.078	2148.050	2143.937	2138.649	2131.999	2146.962
18	2127.071	2142.829	2159.534	2149.260	2136.003	2137.345	2132.003	2129.306	2122.605	2135.917
19	2121.012	2132.566	2140.798	2142.304	2125.118	2118.715	2119.611	2115.595	2113.670	2113.721
20	2105.137	2119.392	2124.883	2131.427	2111.360	2108.636	2101.438	2101.712	2094.671	2107.309
21	2089.094	2104.343	2111.701	2117.881	2093.544	2092.350	2093.043	2093.235	2086.553	2099.368
22	2080.675	2093.884	2093.540	2100.327	2077.446	2077.978	2083.865	2081.951	2080.295	2084.514
23	2066.823	2082.643	2074.080	2082.201	2060.212	2064.858	2064.651	2067.340	2063.770	2070.483
24	2053.844	2066.827	2057.316	2064.443	2042.392	2051.605	2055.234	2046.995	2055.429	2056.408
25	2036.521	2056.486	2038.799	2045.386	2029.679	2041.288	2035.249	2035.738	2031.221	2036.411
26	2014.090	2031.429	2024.391	2030.168	2019.898	2027.002	2013.886	2017.847	2008.704	2018.998
27	2000.269	2010.187	2006.414	2010.688	2005.655	2004.078	2004.332	1999.040	1991.341	2003.804
28	1972.511	1984.660	1985.737	1992.441	1983.032	1988.367	1985.275	1975.956	1970.171	1986.046
29	1960.499	1973.357	1959.971	1972.143	1960.350	1964.699	1966.519	1958.863	1949.008	1970.253
30	1933.262	1939.731	1937.227	1954.609	1947.869	1940.632	1946.389	1943.618	1926.526	1947.935
31	1915.324	1915.332	1908.834	1927.751	1922.972	1924.342	1922.729	1921.081	1907.081	1930.741
32	1891.687	1893.374	1881.933	1908.177	1898.040	1905.938	1903.190	1914.791	1901.644	1911.406
33	1871.006	1869.189	1859.937	1884.129	1874.888	1880.618	1882.881	1901.237	1899.773	1900.615
34	1849.631	1846.864	1835.177	1857.248	1854.336	1856.438	1881.804	1889.006	1895.096	1884.470
35	1823.705	1818.484	1811.067	1832.128	1825.901	1837.827	1862.270	1869.405	1875.260	1873.847
36	1795.039	1793.536	1790.796	1803.802	1800.741	1818.773	1846.430	1848.050	1847.114	1849.091

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

37	1770.768	1759.981	1760.592	1774.823	1780.725	1806.256	1819.583	1821.975	1822.781	1818.859
38	1748.243	1740.090	1733.358	1749.374	1750.415	1790.017	1792.033	1791.708	1784.729	1795.720
39	1716.313	1710.101	1709.878	1720.277	1732.869	1759.637	1767.124	1761.198	1760.063	1761.190
40	1691.928	1680.762	1675.407	1693.517	1711.588	1732.955	1740.286	1736.794	1728.493	1732.364
41	1663.415	1647.634	1652.049	1665.955	1686.660	1704.289	1705.702	1706.864	1705.976	1710.121
42	1633.269	1616.036	1613.942	1639.555	1659.920	1674.163	1682.590	1667.180	1669.638	1671.681
43	1603.124	1584.438	1584.501	1612.873	1636.674	1640.068	1645.461	1633.058	1637.794	1637.528
44	1572.919	1552.774	1555.064	1586.446	1602.360	1605.973	1608.333	1598.936	1605.949	1603.378
45	1531.850	1516.902	1525.427	1560.019	1568.046	1571.788	1571.193	1564.751	1574.074	1569.326
46	1495.739	1484.776	1490.346	1533.568	1533.756	1531.360	1533.603	1528.092	1536.687	1538.394
47	1464.298	1446.016	1455.969	1499.727	1500.463	1494.400	1496.048	1494.170	1500.534	1503.790
48	1430.313	1411.846	1418.379	1465.323	1462.126	1458.306	1461.953	1462.998	1465.840	1469.797
49	1391.114	1379.861	1385.180	1431.052	1419.424	1417.306	1429.017	1426.183	1434.336	1436.833
50	1351.986	1344.835	1347.880	1395.044	1376.832	1384.609	1393.967	1396.828	1403.012	1400.832
51	1312.482	1301.976	1320.603	1356.878	1338.944	1347.152	1359.751	1365.681	1363.336	1364.863
52	1269.846	1259.099	1286.810	1316.877	1297.608	1309.777	1323.347	1333.171	1328.326	1329.942
53	1232.898	1222.749	1256.230	1271.095	1255.232	1267.995	1289.424	1291.507	1295.953	1294.285
54	1194.322	1182.936	1218.886	1223.634	1214.456	1226.432	1249.361	1248.590	1256.257	1255.502
55	1151.147	1140.336	1177.570	1183.288	1178.748	1190.823	1206.083	1209.700	1205.884	1212.091
56	1113.885	1094.456	1138.211	1139.095	1133.494	1148.669	1161.902	1167.057	1166.047	1173.554
57	1069.728	1055.379	1095.032	1094.906	1089.818	1106.022	1117.052	1125.342	1123.138	1126.704
58	1026.392	1011.879	1052.862	1051.445	1047.700	1062.487	1073.548	1072.757	1066.311	1080.945
59	979.212	969.490	1009.041	1008.700	1007.628	1019.049	1028.333	1005.843	990.395	1020.763
60	934.041	926.596	958.879	961.682	964.175	972.989	966.758	919.551	905.880	931.297
61	885.406	886.079	909.269	917.426	921.571	929.794	877.644	857.354	851.295	861.252
62	839.948	844.195	858.379	871.354	874.415	866.090	808.202	812.895	814.089	820.852
63	798.550	803.853	814.926	824.386	827.784	775.661	763.007	778.052	779.724	785.884
64	748.506	760.764	766.083	782.248	782.773	708.371	723.855	740.051	739.985	746.877
65	706.238	708.176	719.890	733.523	716.419	666.296	684.140	693.800	697.299	699.072
66	657.352	666.844	673.063	688.692	630.322	631.015	641.927	654.096	657.313	654.026
67	611.512	623.876	626.631	642.115	577.014	589.593	602.012	614.565	620.185	617.105
68	565.690	573.828	576.783	590.043	537.114	546.132	561.272	576.587	575.417	577.170
69	520.405	526.590	531.130	518.480	496.362	504.789	519.388	528.637	526.441	531.697
70	477.876	480.737	486.166	456.639	456.666	464.545	473.888	489.935	489.367	490.397
71	434.356	433.053	441.394	416.367	414.900	423.205	436.415	449.703	448.572	451.539
72	390.375	389.099	398.946	377.666	376.887	382.222	397.240	405.017	407.173	410.136
73	348.530	344.025	348.753	341.469	337.512	346.170	355.000	366.601	367.172	368.824
74	312.960	301.722	293.894	301.398	298.443	308.224	316.286	329.661	327.030	328.592
75	277.393	261.995	256.985	264.500	265.804	269.209	275.788	282.783	281.158	286.019
76	241.560	224.030	223.485	228.202	230.867	236.292	230.922	221.626	221.309	225.251
77	207.783	190.056	190.397	195.234	197.273	194.988	183.093	188.655	188.506	192.244
78	173.347	156.036	159.178	165.108	164.666	150.493	152.392	154.912	155.613	156.564
79	140.638	120.849	130.571	135.577	122.622	124.344	122.626	118.899	117.314	119.573
80	110.719	96.746	105.263	108.829	99.322	98.793	86.863	76.284	72.456	76.953
81	85.615	75.204	81.200	78.804	79.239	65.540	45.273	36.177	35.328	37.297
82	62.401	57.528	61.285	60.679	52.178	30.212	25.484	24.177	23.887	24.247
83	44.804	41.993	42.944	41.602	24.095	21.073	20.114	19.511	19.210	19.460
84	30.294	29.050	29.703	18.963	17.503	16.482	15.832	15.386	15.124	15.284
85	19.085	18.321	15.773	13.135	12.928	12.439	11.922	11.574	11.198	11.648
86	11.699	10.842	9.272	9.464	9.225	8.607	8.043	7.581	7.260	7.851
87	6.255	6.020	6.008	5.742	5.303	4.818	4.364	4.125	4.024	4.411
88	3.260	3.170	2.658	2.368	2.098	1.867	1.671	1.444	1.382	1.616
89	0.959	0.665	0.599	0.474	0.427	0.431	0.352	0.329	0.301	0.301
90	0.513	0.481	0.497	0.478	0.478	0.458	0.407	0.380	0.329	0.352
91	0.540	0.532	0.552	0.556	0.505	0.485	0.434	0.434	0.380	0.384
92	0.595	0.587	0.630	0.579	0.560	0.513	0.517	0.462	0.489	0.466

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

93	0.673	0.665	0.736	0.689	0.587	0.591	0.544	0.544	0.521	0.517
94	0.755	0.771	0.810	0.767	0.693	0.618	0.626	0.599	0.575	0.575
95	0.865	0.826	0.838	0.873	0.771	0.673	0.654	0.654	0.654	0.654
96	0.943	0.932	0.943	0.979	0.877	0.755	0.736	0.708	0.708	0.708
97	1.025	1.014	1.053	1.061	0.982	0.888	0.842	0.818	0.763	0.791
98	1.159	1.147	1.206	1.213	1.041	0.943	0.873	0.932	0.873	0.881
99	1.268	1.307	1.311	1.296	1.198	1.080	0.979	1.143	0.955	1.252
100	1.401	1.417	1.440	1.429	1.358	1.213	1.115	1.280	1.010	1.632
101	1.507	1.573	1.597	1.558	1.464	1.323	1.225	1.440	1.119	1.605
102	1.644	1.675	1.703	1.691	1.593	1.456	1.358	1.632	1.280	1.632
103	1.781	1.812	1.832	1.820	1.675	1.562	1.464	1.738	1.366	1.663
104	1.941	1.945	1.988	1.898	1.808	1.695	1.573	1.773	1.499	1.746
105	2.102	2.129	2.149	2.082	1.937	1.777	1.714	1.930	1.663	1.883
106	2.266	2.235	2.305	2.247	2.047	1.910	2.027	2.067	1.769	2.016
107	2.423	2.395	2.435	2.380	2.207	2.043	2.630	2.172	1.906	2.153
108	2.560	2.474	2.540	2.532	2.313	2.157	3.092	2.254	2.020	2.290
109	2.665	2.528	2.591	2.665	2.446	2.286	3.417	2.341	2.180	2.395
110	2.720	2.556	2.618	2.771	2.575	2.395	3.417	2.501	2.258	2.505
111	2.720	2.638	2.724	2.955	2.634	2.478	3.503	2.583	2.368	2.615
112	2.802	2.799	2.826	3.037	2.818	2.587	3.636	2.665	2.478	2.669
113	2.963	3.006	3.010	3.139	2.947	2.755	3.742	2.771	2.587	2.748
114	3.123	3.088	3.092	3.194	3.057	3.159	3.742	2.853	2.615	2.779
115	3.233	3.245	3.221	3.268	3.112	3.589	3.660	2.963	2.642	2.912
116	3.421	3.350	3.323	3.245	3.217	4.294	3.609	2.990	2.752	3.022
117	3.554	3.378	3.374	3.296	3.374	4.900	3.636	3.072	2.885	3.104
118	3.632	3.378	3.507	3.378	3.429	5.057	3.664	3.178	2.967	3.213
119	3.797	3.378	3.613	3.456	3.620	5.139	3.746	3.260	3.104	3.323
120	3.984	3.378	3.742	3.538	3.937	5.217	3.879	3.343	3.186	3.456
121	3.957	3.405	3.875	3.667	4.290	5.354	3.961	3.480	3.350	3.487
122	3.957	3.323	4.028	3.828	4.889	5.354	4.071	3.585	3.483	3.597
123	3.957	3.300	4.082	3.934	5.347	5.370	4.153	3.699	3.542	3.757
124	3.957	3.382	4.211	4.094	5.656	5.135	4.286	3.832	3.648	3.871
125	3.957	3.542	4.290	4.438	5.711	5.002	4.368	3.914	3.840	4.004
126	4.094	3.793	4.321	4.795	5.816	4.869	4.482	4.047	3.949	4.141
127	4.231	4.313	4.454	5.487	5.871	4.842	4.638	4.184	4.141	4.278
128	4.532	4.849	4.658	5.699	5.844	4.842	4.693	4.294	4.274	4.384
129	4.904	5.272	4.740	5.804	5.844	4.869	4.775	4.403	4.329	4.489
130	5.319	5.722	4.975	5.883	5.816	4.924	4.799	4.482	4.411	4.493
131	5.824	6.094	5.319	5.965	5.789	4.951	4.799	4.482	4.466	4.572
132	6.192	6.262	6.333	6.200	5.734	5.084	4.830	4.513	4.575	4.630
133	6.247	6.638	6.439	6.251	5.628	5.139	4.881	4.619	4.630	4.685
134	6.380	7.135	6.466	6.278	5.605	5.166	4.936	4.646	4.685	4.740
135	6.552	7.343	6.701	6.223	5.609	5.245	4.936	4.701	4.763	4.818
136	7.296	7.315	6.803	6.063	5.711	5.303	4.994	4.701	4.767	4.846
137	7.241	7.315	6.830	5.961	5.793	5.437	5.100	4.728	4.846	4.873
138	7.241	7.343	6.803	5.961	5.844	5.542	5.155	4.810	4.846	4.904
139	7.241	7.284	6.724	5.961	5.926	5.621	5.237	4.916	4.900	5.010
140	7.241	7.069	6.724	5.988	6.004	5.757	5.315	4.998	4.983	5.065
141	7.241	6.889	6.724	6.039	6.031	5.785	5.343	5.026	5.065	5.147
142	7.241	6.834	6.724	6.094	6.055	5.785	5.452	5.135	5.174	5.198
143	7.241	6.783	6.724	6.067	6.137	5.785	5.507	5.217	5.229	5.253
144	7.268	6.783	6.724	6.067	6.243	5.785	5.589	5.217	5.307	5.307
145	7.182	6.783	6.724	6.067	6.372	5.840	5.671	5.245	5.335	5.307
146	6.936	6.783	6.724	6.067	6.349	5.891	5.750	5.272	5.311	5.390
147	6.540	6.756	6.669	6.039	6.349	5.973	5.777	5.382	5.417	5.444
148	6.243	6.756	6.646	5.934	6.349	6.028	5.804	5.437	5.472	5.499

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

149	6.270	6.783	6.646	5.906	6.294	6.055	5.941	5.519	5.554	5.581
150	6.247	6.701	6.646	5.883	6.282	6.165	5.965	5.624	5.609	5.691
151	6.325	6.701	6.646	5.804	5.867	6.298	6.051	5.734	5.691	5.742
152	6.540	6.619	6.669	5.801	5.844	6.509	6.102	5.816	5.797	5.797
153	6.568	6.489	6.642	5.722	5.816	6.509	6.157	5.867	5.824	5.824
154	6.540	6.435	6.540	5.562	5.789	6.509	6.129	5.844	5.824	5.906
155	6.458	6.407	6.356	5.487	5.656	6.482	6.129	5.922	5.824	5.934
156	6.458	6.329	6.329	5.484	5.605	6.482	6.129	5.949	5.824	5.906
157	6.380	6.329	6.223	5.433	5.550	6.427	6.129	5.977	5.824	5.906
158	6.380	6.302	5.938	5.437	5.499	6.403	6.129	6.004	5.824	5.906
159	6.407	6.223	5.887	5.515	5.499	6.399	6.129	6.004	5.824	5.906
160	6.352	5.957	5.887	5.538	5.444	6.341	6.129	6.004	5.824	5.906
161	6.325	5.957	5.887	5.621	5.444	6.051	6.129	6.004	5.824	5.906
162	6.380	5.957	5.887	5.777	5.417	5.973	6.129	6.004	5.824	5.906
163	6.352	5.985	5.887	5.750	5.366	5.945	6.129	6.004	5.824	5.906
164	6.352	6.012	5.887	5.750	5.366	5.918	6.157	6.031	5.851	5.906
165	6.349	6.118	5.836	5.750	5.393	5.918	6.212	6.031	5.828	5.906
166	6.270	6.118	5.808	5.750	5.393	5.945	6.239	6.059	5.879	5.961
167	6.192	6.118	5.832	5.750	5.527	5.945	6.325	6.168	5.992	6.071
168	6.137	6.063	5.781	5.750	5.550	5.945	6.482	6.251	6.071	6.098
169	5.977	5.930	5.754	5.750	5.550	5.945	6.591	6.360	6.071	6.125
170	5.922	5.824	5.597	5.695	5.550	5.945	6.591	6.442	6.125	6.125
171	5.785	5.746	5.491	5.644	5.550	5.945	6.591	6.521	6.153	6.125
172	5.652	5.554	5.362	5.566	5.550	5.945	6.591	6.493	6.208	6.125
173	5.464	5.397	5.257	5.566	5.550	5.945	6.591	6.493	6.180	6.125
174	5.249	5.108	4.998	5.589	5.550	5.945	6.591	6.493	6.180	6.125
175	5.088	5.135	4.943	5.511	5.550	5.945	6.591	6.521	6.180	6.125
176	5.061	5.108	4.943	5.460	5.577	5.945	6.591	6.466	6.180	6.125
177	5.061	5.108	4.920	5.433	5.523	5.945	6.591	6.466	6.176	6.125
178	5.061	5.108	4.920	5.405	5.444	5.945	6.536	6.466	6.098	6.071
179	5.061	5.135	4.920	5.350	5.413	5.914	6.509	6.466	6.094	6.016
180	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121

Vert. Angles **Horizontal Angles**

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031
1	2220.878	2213.461	2224.005	2216.733	2215.880	2209.253	2214.083	2218.201	2226.107	2222.244
2	2217.352	2220.142	2230.041	2214.154	2216.479	2213.864	2213.766	2218.522	2227.430	2213.962
3	2222.690	2213.782	2225.532	2218.776	2221.117	2214.451	2210.212	2227.771	2221.332	2217.488
4	2224.444	2221.105	2238.393	2216.921	2221.461	2223.262	2207.715	2218.624	2217.618	2221.406
5	2219.097	2223.395	2228.088	2211.547	2223.958	2212.099	2212.846	2217.954	2227.223	2220.017
6	2221.285	2222.236	2229.825	2212.980	2220.534	2213.747	2206.428	2212.729	2213.344	2213.907
7	2228.123	2222.495	2221.630	2214.424	2226.154	2206.541	2208.447	2211.383	2212.244	2216.091
8	2229.606	2221.344	2226.984	2215.833	2216.964	2208.193	2206.643	2205.817	2209.257	2213.214
9	2231.035	2225.144	2229.328	2208.326	2213.183	2203.535	2205.449	2200.979	2205.966	2200.517
10	2226.859	2221.222	2219.723	2209.308	2210.428	2202.306	2187.413	2195.300	2190.916	2197.292
11	2222.624	2217.207	2217.332	2203.856	2213.128	2188.071	2189.719	2193.770	2199.167	2198.419
12	2218.483	2203.743	2214.389	2198.627	2205.817	2191.034	2175.601	2180.736	2184.266	2186.267
13	2197.488	2200.185	2202.831	2195.805	2197.981	2175.902	2180.705	2184.141	2186.533	2179.315
14	2184.861	2186.748	2197.989	2185.452	2187.257	2177.875	2170.337	2173.186	2179.167	2178.693
15	2172.857	2173.476	2191.186	2171.867	2180.693	2165.687	2165.969	2149.647	2167.886	2162.591
16	2162.027	2161.683	2176.192	2162.833	2171.468	2157.393	2151.123	2152.712	2159.655	2153.373
17	2147.463	2149.060	2164.845	2154.747	2156.775	2148.031	2138.935	2136.606	2147.232	2141.099
18	2131.709	2137.944	2148.121	2140.661	2148.140	2131.114	2131.318	2122.715	2139.267	2134.034
19	2121.051	2125.517	2130.934	2124.277	2141.416	2125.889	2121.169	2104.456	2124.128	2124.151

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

20	2110.104	2109.212	2121.897	2110.206	2125.815	2116.860	2104.812	2099.380	2103.333	2115.541
21	2095.849	2099.047	2107.184	2099.536	2108.480	2102.108	2092.284	2088.730	2104.213	2102.366
22	2085.309	2082.780	2088.898	2078.839	2092.272	2089.720	2076.851	2071.383	2085.000	2097.129
23	2071.144	2060.729	2077.653	2056.439	2075.062	2077.453	2064.056	2058.216	2067.731	2083.497
24	2062.091	2051.202	2060.431	2044.940	2061.163	2058.760	2049.961	2043.742	2049.410	2076.232
25	2044.494	2040.392	2046.224	2028.305	2046.141	2047.222	2034.525	2026.066	2035.214	2045.034
26	2024.016	2023.378	2030.599	2014.152	2027.961	2022.924	2018.395	2008.990	2017.812	2041.910
27	2009.467	2012.109	2015.581	1991.882	2005.498	2007.440	2005.835	1995.259	2005.667	2010.692
28	1985.756	1988.793	1995.118	1976.664	1984.355	1990.801	1986.461	1974.363	1987.768	1997.181
29	1962.178	1973.721	1978.179	1954.221	1966.194	1971.971	1970.085	1947.516	1967.431	1983.733
30	1954.601	1951.900	1961.544	1932.404	1941.724	1946.162	1943.011	1931.782	1947.188	1966.738
31	1928.494	1935.324	1937.892	1916.983	1923.328	1926.259	1928.236	1914.330	1918.639	1931.426
32	1914.216	1911.422	1911.817	1898.212	1904.008	1899.836	1905.922	1884.932	1905.934	1897.010
33	1892.752	1883.307	1886.380	1874.556	1874.798	1869.495	1873.910	1864.986	1870.090	1870.415
34	1875.389	1866.606	1866.148	1859.256	1858.547	1849.443	1851.126	1846.931	1850.097	1838.879
35	1868.035	1845.255	1845.428	1835.611	1826.139	1817.705	1830.429	1822.026	1842.042	1809.258
36	1845.690	1827.701	1821.313	1806.644	1797.779	1797.023	1807.928	1791.962	1807.591	1783.418
37	1825.991	1814.879	1796.131	1784.674	1773.660	1773.700	1782.772	1761.609	1781.332	1756.584
38	1805.090	1793.176	1774.177	1749.621	1746.169	1743.746	1750.936	1738.669	1751.762	1729.601
39	1772.447	1767.277	1756.983	1719.737	1722.458	1712.618	1726.567	1707.428	1722.896	1702.394
40	1737.714	1745.679	1734.704	1691.052	1699.752	1682.445	1702.790	1677.885	1703.040	1670.679
41	1710.473	1712.946	1712.723	1666.526	1668.691	1654.049	1671.180	1656.550	1671.219	1638.545
42	1678.883	1686.327	1682.437	1641.035	1638.353	1624.345	1646.831	1613.100	1644.197	1604.325
43	1643.238	1648.851	1651.806	1606.932	1605.856	1592.575	1613.640	1592.783	1612.071	1579.917
44	1607.593	1611.374	1622.302	1579.870	1573.358	1560.805	1580.450	1556.289	1574.430	1547.737
45	1571.956	1573.933	1592.802	1552.813	1540.864	1528.973	1547.283	1519.462	1541.936	1513.262
46	1537.075	1538.406	1563.259	1525.830	1508.354	1495.551	1514.859	1488.103	1508.937	1471.363
47	1503.274	1505.090	1520.616	1500.964	1475.101	1459.308	1481.606	1461.233	1477.097	1439.694
48	1469.202	1467.323	1477.723	1471.441	1438.771	1429.021	1445.816	1423.491	1437.385	1404.750
49	1435.647	1429.076	1436.520	1434.501	1407.467	1391.478	1406.437	1386.797	1394.421	1371.947
50	1400.034	1388.781	1393.932	1398.660	1372.961	1357.661	1371.254	1350.843	1363.281	1331.926
51	1367.156	1356.925	1349.582	1359.043	1336.017	1317.527	1331.566	1313.147	1312.192	1289.808
52	1329.147	1314.247	1308.975	1312.486	1302.008	1283.178	1288.728	1275.878	1278.888	1254.543
53	1291.522	1280.234	1271.048	1270.547	1266.132	1242.343	1247.024	1234.640	1235.411	1218.006
54	1251.736	1239.255	1225.630	1224.225	1233.388	1203.261	1208.749	1197.704	1192.588	1175.085
55	1210.166	1198.921	1184.725	1176.396	1195.970	1162.403	1171.703	1161.738	1145.569	1137.565
56	1167.386	1153.393	1140.360	1132.880	1156.853	1124.011	1128.723	1118.050	1105.145	1092.429
57	1126.719	1109.678	1096.930	1083.920	1112.461	1078.068	1084.358	1081.881	1060.776	1048.475
58	1082.448	1067.771	1054.404	1039.535	1071.301	1038.517	1042.498	1033.515	1018.947	1008.023
59	1035.570	1025.961	1007.937	996.434	1021.942	997.205	997.612	993.495	973.972	966.249
60	982.864	978.852	961.494	950.202	974.234	956.077	954.777	948.073	928.976	922.534
61	894.545	933.837	916.604	905.739	927.465	915.790	905.277	907.496	880.940	880.380
62	813.881	877.049	873.202	859.013	878.458	870.513	859.894	863.264	836.825	838.989
63	769.074	796.249	825.388	809.787	832.171	833.388	815.635	818.961	792.792	797.607
64	728.450	720.967	775.316	764.036	785.215	792.049	771.622	774.655	744.165	756.228
65	690.054	675.498	723.205	716.634	738.865	752.079	725.033	725.456	703.788	710.908
66	643.963	634.232	636.831	668.366	694.242	707.526	682.735	684.512	654.816	664.167
67	604.236	595.895	570.771	624.788	644.972	659.724	638.436	635.782	612.878	616.087
68	563.694	550.109	531.748	577.675	597.073	608.549	590.654	591.445	566.935	572.321
69	523.204	507.900	495.258	521.537	551.811	558.453	547.173	546.398	524.069	525.051
70	477.391	470.021	451.132	442.442	505.838	512.891	501.106	501.767	481.042	482.091
71	435.053	426.458	410.262	398.535	461.304	467.915	456.709	455.143	437.229	433.542
72	396.535	382.155	376.793	361.744	418.184	422.806	412.391	412.731	395.138	389.592
73	355.246	345.630	334.823	324.709	372.515	376.421	370.135	369.724	355.575	342.510
74	314.075	307.871	294.055	288.791	314.282	335.054	328.987	326.662	318.377	301.672
75	277.358	268.172	260.727	255.870	268.684	290.313	290.376	284.787	281.800	263.009

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

76	234.824	233.932	225.169	218.002	234.351	249.381	254.543	247.889	244.911	226.229
77	184.068	197.532	192.361	188.639	200.456	213.791	219.239	210.785	208.573	192.956
78	151.405	152.133	160.779	157.707	172.341	179.140	184.890	175.699	172.650	162.623
79	119.389	123.753	123.072	129.784	140.920	141.894	151.123	143.554	142.282	133.651
80	83.028	92.734	95.576	105.701	112.888	111.404	121.491	114.696	112.719	101.787
81	47.449	62.131	72.558	76.135	89.149	87.216	92.981	88.456	85.353	78.433
82	26.463	32.737	46.036	56.213	68.319	66.663	70.053	65.755	64.800	59.704
83	20.658	22.095	25.598	37.148	48.150	48.577	50.905	47.426	47.027	44.025
84	16.513	17.355	18.361	21.190	31.946	34.870	35.253	32.596	32.999	31.367
85	12.517	13.323	14.173	15.045	17.899	22.361	22.611	21.226	21.069	20.290
86	8.642	9.531	10.403	10.951	11.742	12.693	14.008	12.552	13.006	11.284
87	4.877	5.597	6.372	7.186	7.691	7.789	8.169	7.280	7.448	7.339
88	1.918	2.247	2.595	3.092	4.020	4.482	4.438	3.934	4.137	4.161
89	0.325	0.403	0.427	0.497	0.810	1.155	1.503	1.119	1.221	1.174
90	0.380	0.403	0.454	0.446	0.501	0.532	0.536	0.270	0.227	0.258
91	0.434	0.458	0.509	0.474	0.579	0.583	0.564	0.243	0.215	0.239
92	0.462	0.485	0.536	0.579	0.630	0.611	0.591	0.243	0.215	0.211
93	0.513	0.536	0.591	0.630	0.658	0.720	0.669	0.243	0.188	0.211
94	0.595	0.646	0.646	0.708	0.763	0.771	0.751	0.243	0.188	0.211
95	0.622	0.646	0.751	0.791	0.842	0.849	0.857	0.243	0.215	0.211
96	0.732	0.751	0.834	0.896	0.920	0.986	0.967	0.270	0.243	0.266
97	0.787	0.834	0.939	0.998	1.053	1.092	1.045	0.297	0.297	0.317
98	0.865	0.916	1.045	1.104	1.182	1.221	1.127	0.376	0.376	0.372
99	0.924	1.022	1.178	1.260	1.264	1.303	1.260	0.403	0.376	0.423
100	1.033	1.155	1.311	1.366	1.421	1.436	1.421	0.403	0.403	0.450
101	1.190	1.268	1.448	1.499	1.550	1.570	1.530	0.403	0.431	0.427
102	1.276	1.425	1.577	1.605	1.683	1.703	1.663	0.431	0.431	0.427
103	1.440	1.562	1.687	1.734	1.812	1.832	1.797	0.485	0.481	0.478
104	1.573	1.667	1.820	1.867	1.918	1.965	1.930	0.536	0.536	0.505
105	1.679	1.773	1.930	2.027	2.129	2.125	2.090	0.646	0.618	0.634
106	1.812	1.910	2.086	2.231	2.262	2.313	2.251	0.724	0.751	0.716
107	2.067	2.047	2.219	2.337	2.395	2.442	2.411	0.779	0.779	0.771
108	2.611	2.176	2.356	2.470	2.525	2.521	2.544	0.888	0.834	0.771
109	3.092	2.286	2.489	2.599	2.626	2.521	2.650	0.916	0.861	0.822
110	3.256	2.419	2.622	2.759	2.681	2.552	2.677	0.994	0.916	0.877
111	3.519	2.528	2.728	2.912	2.810	2.658	2.708	1.076	0.994	0.955
112	3.519	2.634	2.889	3.072	2.892	2.842	2.787	1.182	1.076	1.061
113	3.519	2.716	3.022	3.151	3.049	2.975	2.896	1.186	1.182	1.170
114	3.519	2.908	3.155	3.202	3.155	3.080	3.080	1.186	1.209	1.170
115	3.519	3.155	3.264	3.229	3.260	3.217	3.186	1.213	1.237	1.198
116	3.519	3.695	3.370	3.284	3.362	3.370	3.323	1.237	1.237	1.221
117	3.546	4.145	3.448	3.386	3.417	3.397	3.511	1.292	1.237	1.225
118	3.683	4.575	3.530	3.491	3.573	3.397	3.644	1.268	1.292	1.225
119	3.738	4.916	3.636	3.570	3.683	3.397	3.754	1.319	1.264	1.225
120	3.871	4.889	3.746	3.648	3.808	3.397	3.910	1.319	1.264	1.276
121	3.981	4.889	3.961	3.754	3.859	3.397	3.883	1.554	1.343	1.409
122	4.063	4.889	4.341	3.863	3.863	3.397	3.883	1.616	1.452	1.542
123	4.168	4.889	4.638	3.992	3.891	3.425	3.910	1.828	1.613	1.597
124	4.309	4.889	5.194	4.094	3.969	3.452	3.883	1.887	1.589	1.570
125	4.442	4.889	5.495	4.200	4.071	3.507	3.855	1.937	1.589	1.597
126	4.552	4.893	5.887	4.356	4.153	3.652	3.883	2.020	1.589	1.648
127	4.712	4.916	5.938	4.756	4.176	4.020	4.016	2.047	1.640	1.703
128	4.791	4.893	5.910	5.014	4.231	4.497	4.102	2.157	1.695	1.781
129	4.818	4.971	5.910	5.538	4.286	4.963	4.482	2.129	1.750	1.910
130	4.846	5.029	5.777	5.777	4.446	5.339	4.963	2.153	1.934	2.020
131	4.873	5.131	5.695	6.063	4.709	5.581	5.362	2.235	2.067	2.102

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

132	4.873	5.163	5.695	6.243	5.123	5.848	5.757	2.313	2.125	2.102
133	4.955	5.292	5.722	6.219	5.577	6.145	5.945	2.450	2.102	2.207
134	5.033	5.347	5.722	6.243	6.024	6.666	6.082	2.505	2.180	2.806
135	5.116	5.456	5.722	6.110	6.439	6.955	6.251	2.478	2.705	3.209
136	5.143	5.538	5.832	6.004	6.650	7.088	6.963	3.421	3.229	3.323
137	5.253	5.644	5.992	5.824	6.775	7.061	7.147	3.769	3.362	3.429
138	5.335	5.750	6.016	5.801	6.752	7.006	7.202	4.008	3.495	3.534
139	5.362	5.804	6.043	5.801	6.752	7.006	7.257	4.200	3.577	3.746
140	5.390	5.887	6.098	5.801	6.752	6.983	7.229	4.255	3.632	3.777
141	5.472	5.938	6.098	5.801	6.724	7.006	7.229	4.231	3.742	3.804
142	5.577	5.992	6.180	5.801	6.724	6.979	7.229	4.231	3.820	3.699
143	5.632	6.020	6.258	5.801	6.724	6.818	7.257	4.258	3.742	3.566
144	5.738	6.071	6.392	5.797	6.724	6.767	7.174	4.204	3.636	3.433
145	5.820	6.071	6.419	5.773	6.724	6.740	6.955	4.043	3.530	3.405
146	5.848	6.075	6.392	5.773	6.724	6.740	6.771	3.961	3.527	3.378
147	5.902	6.098	6.392	5.773	6.724	6.740	6.501	3.961	3.527	3.350
148	5.902	6.180	6.392	5.773	6.724	6.740	6.208	3.906	3.527	3.378
149	5.985	6.235	6.392	5.773	6.724	6.744	6.024	3.879	3.527	3.378
150	6.063	6.313	6.419	5.773	6.724	6.767	6.024	3.851	3.554	3.300
151	6.035	6.450	6.364	5.773	6.697	6.740	6.051	3.851	3.499	3.272
152	6.035	6.501	6.309	5.773	6.673	6.740	6.298	3.800	3.499	3.245
153	6.035	6.501	6.067	5.773	6.669	6.658	6.505	3.746	3.472	3.194
154	6.035	6.501	5.883	5.797	6.646	6.501	6.482	3.691	3.444	3.190
155	6.035	6.501	5.883	5.691	6.615	6.395	6.505	3.691	3.499	3.190
156	6.035	6.501	5.883	5.484	6.513	6.372	6.454	3.636	3.472	3.190
157	6.035	6.474	5.883	5.350	6.407	6.317	6.450	3.613	3.472	3.190
158	6.035	6.446	5.883	5.300	6.352	6.317	6.427	3.609	3.472	3.190
159	6.035	6.423	5.883	5.221	6.039	6.290	6.399	3.609	3.472	3.217
160	6.035	6.419	5.883	5.198	6.012	6.129	6.368	3.609	3.472	3.139
161	6.035	6.337	5.883	5.221	5.910	6.024	6.235	3.636	3.393	3.010
162	6.035	6.231	5.883	5.194	5.910	6.000	6.106	3.397	3.339	3.057
163	6.035	6.208	5.883	5.170	5.934	6.000	6.106	3.738	3.793	3.346
164	6.035	6.208	5.965	5.143	5.855	5.996	6.106	4.141	4.274	3.930
165	6.035	6.208	5.988	5.143	5.754	5.945	6.129	4.595	4.810	4.255
166	6.035	6.235	5.988	5.143	5.726	5.891	6.051	4.818	4.924	4.466
167	6.118	6.235	6.071	5.276	5.699	5.867	6.024	4.822	4.924	4.677
168	6.118	6.290	6.208	5.303	5.699	5.840	5.941	4.877	4.951	4.681
169	6.172	6.423	6.341	5.378	5.593	5.863	5.859	4.849	4.951	4.681
170	6.200	6.446	6.419	5.405	5.542	5.679	5.754	4.849	5.006	4.709
171	6.200	6.423	6.392	5.429	5.491	5.624	5.593	4.932	5.139	4.732
172	6.200	6.423	6.392	5.405	5.437	5.546	5.460	4.983	5.166	4.736
173	6.200	6.423	6.392	5.405	5.437	5.546	5.350	5.065	5.272	4.787
174	6.200	6.423	6.392	5.405	5.437	5.546	5.112	5.143	5.433	4.842
175	6.200	6.423	6.392	5.405	5.386	5.413	4.979	5.170	5.515	4.920
176	6.200	6.423	6.392	5.378	5.386	5.413	4.924	5.174	5.519	4.975
177	6.172	6.395	6.392	5.378	5.409	5.307	4.900	5.174	5.546	4.998
178	6.141	6.395	6.364	5.378	5.331	5.280	4.900	5.174	5.358	5.026
179	6.035	6.392	6.392	5.378	5.225	5.174	4.928	5.120	5.253	5.002
180	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121	6.121

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031	2217.031
1	2215.273	2225.763	2210.001	2224.358	2222.142	2223.446	2218.784
2	2223.504	2227.152	2205.970	2224.162	2229.876	2218.506	2218.823

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

3	2221.927	2225.469	2208.455	2224.448	2231.027	2222.271	2218.823
4	2221.923	2227.990	2222.831	2228.921	2233.712	2227.007	2223.551
5	2225.074	2232.076	2214.999	2230.111	2232.573	2221.853	2226.917
6	2218.471	2226.753	2213.833	2230.714	2231.955	2222.608	2227.270
7	2213.531	2223.708	2204.290	2224.275	2237.278	2224.710	2233.465
8	2211.809	2224.248	2210.659	2226.244	2240.882	2222.639	2238.608
9	2209.175	2219.645	2209.406	2231.833	2243.325	2232.976	2230.209
10	2207.426	2211.332	2205.566	2230.428	2237.133	2233.156	2237.207
11	2200.768	2211.387	2214.713	2225.070	2229.986	2225.516	2222.647
12	2190.478	2213.132	2215.281	2216.130	2224.733	2208.424	2208.377
13	2189.182	2211.109	2206.009	2208.713	2209.629	2196.439	2189.319
14	2180.897	2195.515	2196.999	2195.703	2196.627	2178.576	2169.428
15	2172.744	2193.558	2186.705	2186.243	2173.902	2170.528	2149.076
16	2171.194	2188.400	2174.963	2167.832	2165.276	2160.779	2142.332
17	2171.452	2181.421	2151.487	2143.980	2153.706	2142.485	2123.349
18	2163.655	2159.518	2129.103	2144.841	2137.553	2113.208	2111.666
19	2144.528	2139.643	2116.895	2122.226	2118.910	2102.757	2099.939
20	2133.874	2119.063	2103.047	2105.239	2106.875	2091.916	2086.056
21	2117.122	2102.738	2088.049	2085.246	2093.998	2088.898	2076.334
22	2100.957	2079.551	2068.843	2074.005	2081.978	2072.678	2071.688
23	2086.017	2067.344	2054.854	2066.580	2069.023	2064.886	2064.850
24	2059.230	2055.069	2040.525	2051.664	2061.042	2048.325	2044.795
25	2040.994	2032.971	2027.170	2045.746	2042.024	2036.861	2029.436
26	2013.307	2012.234	2009.029	2019.209	2027.875	2018.614	2020.884
27	1992.543	1991.130	1993.353	2004.273	2011.491	1998.986	2002.293
28	1970.464	1975.580	1985.208	1986.629	2000.512	1976.363	1982.300
29	1955.928	1949.728	1960.926	1982.136	1974.918	1959.078	1969.627
30	1928.749	1939.379	1946.640	1959.411	1957.814	1946.291	1957.579
31	1907.656	1927.101	1922.709	1935.070	1938.542	1930.537	1935.727
32	1879.867	1904.408	1904.717	1909.977	1917.351	1915.473	1921.113
33	1862.046	1881.718	1882.301	1891.589	1906.639	1893.147	1897.014
34	1843.185	1858.078	1866.317	1871.867	1883.538	1872.728	1866.489
35	1813.548	1835.341	1841.028	1855.948	1857.518	1850.907	1847.158
36	1789.422	1812.092	1810.139	1832.887	1830.492	1820.687	1812.417
37	1757.621	1790.338	1791.598	1810.448	1809.203	1802.569	1787.371
38	1733.526	1761.132	1771.359	1785.481	1784.142	1774.169	1773.563
39	1707.017	1727.800	1740.172	1758.580	1760.823	1752.161	1740.979
40	1677.924	1709.369	1723.870	1727.965	1733.730	1724.375	1711.843
41	1644.851	1679.924	1698.120	1703.161	1707.314	1687.783	1680.730
42	1621.887	1654.534	1659.352	1671.415	1672.761	1664.992	1649.759
43	1590.884	1628.780	1624.772	1646.655	1641.371	1634.749	1625.375
44	1562.598	1599.397	1599.804	1617.441	1610.728	1602.208	1590.857
45	1527.681	1561.995	1568.974	1573.886	1571.158	1563.271	1552.046
46	1498.972	1530.499	1537.768	1543.803	1533.552	1524.174	1524.174
47	1460.861	1495.575	1506.792	1507.606	1495.962	1485.774	1489.398
48	1423.479	1466.451	1464.274	1468.177	1457.883	1450.254	1453.523
49	1388.147	1433.698	1431.804	1427.408	1425.698	1417.968	1411.373
50	1357.164	1397.717	1392.687	1385.000	1377.528	1381.020	1381.110
51	1322.098	1359.692	1352.581	1346.185	1348.095	1347.888	1350.189
52	1287.565	1321.343	1313.006	1304.215	1310.646	1305.002	1305.879
53	1252.860	1284.645	1268.731	1263.189	1275.620	1264.140	1265.067
54	1215.489	1239.325	1227.630	1226.366	1227.160	1223.430	1226.186
55	1178.333	1202.443	1180.502	1186.193	1189.555	1183.061	1185.386
56	1136.109	1159.996	1140.140	1146.238	1150.415	1143.311	1145.150
57	1095.893	1110.163	1097.270	1101.137	1104.226	1106.085	1101.345
58	1057.872	1065.199	1060.909	1062.541	1067.547	1064.029	1064.091

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

59	1003.906	1020.775	1012.266	1016.845	1022.337	1016.630	1009.198
60	958.758	969.776	970.093	980.007	978.954	967.380	962.875
61	919.027	927.418	923.630	934.350	930.092	917.109	914.334
62	875.691	882.803	880.286	886.427	879.734	852.000	848.250
63	826.578	837.760	835.792	833.103	807.901	786.784	781.939
64	777.297	792.718	791.286	779.649	736.039	721.565	715.632
65	728.016	747.672	746.776	726.196	682.539	682.355	674.586
66	680.719	698.035	694.872	646.769	643.939	639.004	638.914
67	635.168	653.466	643.289	598.423	597.124	598.020	594.948
68	589.308	611.152	570.188	554.669	557.941	558.422	554.766
69	543.009	565.111	506.773	510.037	518.863	516.472	512.127
70	499.673	518.030	464.392	472.146	474.929	478.710	474.471
71	457.116	457.805	419.914	432.438	439.938	437.378	434.106
72	414.618	390.692	385.596	394.234	402.829	399.111	392.805
73	369.971	349.297	346.718	355.086	363.509	363.286	355.642
74	331.101	307.683	308.447	317.468	323.336	322.451	318.694
75	280.857	272.802	276.066	280.665	284.924	282.982	280.407
76	230.398	234.664	240.363	245.173	245.983	243.283	240.414
77	198.632	204.788	203.328	207.477	206.507	195.508	190.573
78	166.725	172.737	171.602	169.848	162.505	158.540	154.615
79	138.939	143.252	140.489	131.201	125.514	115.897	110.289
80	111.369	114.488	107.326	96.034	79.881	67.700	61.712
81	88.198	88.460	76.354	58.694	44.091	37.719	34.443
82	67.798	62.773	46.040	32.968	27.809	25.468	24.435
83	49.054	37.610	27.406	23.280	21.594	20.290	19.550
84	30.110	22.165	19.844	19.186	17.903	16.552	15.809
85	17.069	16.423	16.376	14.662	13.433	12.513	11.820
86	11.879	11.425	11.006	10.294	9.417	8.611	8.035
87	7.624	7.397	6.724	6.039	5.523	5.006	4.650
88	3.804	3.135	2.795	2.615	2.341	1.992	1.781
89	0.838	0.693	0.532	0.411	0.309	0.247	0.231
90	0.266	0.243	0.239	0.188	0.192	0.164	0.110
91	0.211	0.211	0.188	0.160	0.164	0.137	0.110
92	0.207	0.211	0.188	0.160	0.164	0.137	0.110
93	0.207	0.211	0.188	0.160	0.164	0.137	0.110
94	0.207	0.211	0.188	0.160	0.164	0.137	0.110
95	0.207	0.211	0.188	0.160	0.164	0.137	0.110
96	0.207	0.211	0.188	0.188	0.164	0.137	0.110
97	0.235	0.239	0.239	0.188	0.188	0.188	0.160
98	0.364	0.317	0.317	0.215	0.215	0.243	0.192
99	0.391	0.368	0.344	0.321	0.297	0.376	0.321
100	0.391	0.368	0.372	0.376	0.352	0.489	0.352
101	0.419	0.423	0.399	0.403	0.407	0.622	0.380
102	0.419	0.450	0.478	0.431	0.407	0.783	0.407
103	0.493	0.528	0.478	0.481	0.462	0.814	0.462
104	0.497	0.630	0.556	0.536	0.513	0.842	0.489
105	0.599	0.685	0.661	0.591	0.595	0.842	0.571
106	0.732	0.763	0.716	0.751	0.759	0.896	0.759
107	0.732	0.763	0.771	0.751	0.814	0.975	0.791
108	0.783	0.791	0.795	0.806	0.920	1.135	0.791
109	0.834	0.842	0.904	0.916	1.213	1.221	0.896
110	0.888	0.998	1.037	0.939	1.487	1.276	0.951
111	1.045	1.080	1.061	1.123	1.624	1.303	1.139
112	1.072	1.159	1.194	1.182	1.679	1.358	1.249
113	1.072	1.213	1.194	1.209	1.734	1.413	1.280
114	1.151	1.241	1.272	1.292	1.843	1.491	1.280

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

115	1.123	1.292	1.276	1.264	1.843	1.573	1.280
116	1.151	1.268	1.249	1.425	1.926	1.601	1.280
117	1.178	1.292	1.299	1.663	1.953	1.683	1.335
118	1.229	1.319	1.327	2.035	2.031	1.660	1.335
119	1.202	1.343	1.460	2.282	2.114	1.656	1.386
120	1.229	1.319	1.460	2.446	2.168	1.683	1.468
121	1.280	1.319	1.566	2.579	2.141	1.710	1.550
122	1.307	1.346	1.671	2.740	2.141	1.738	1.577
123	1.284	1.346	1.984	2.904	2.141	1.765	1.660
124	1.307	1.370	2.356	2.904	2.141	1.820	1.632
125	1.335	1.448	2.732	2.932	2.168	1.926	1.687
126	1.358	1.554	2.947	2.771	2.251	2.008	1.769
127	1.386	1.765	3.260	2.693	2.278	2.117	1.851
128	1.436	2.106	3.319	2.689	2.329	2.145	2.094
129	1.570	2.317	3.346	2.662	2.305	2.172	2.121
130	1.620	2.505	3.346	2.662	2.305	2.172	2.121
131	1.804	2.611	3.397	2.662	2.333	2.172	2.121
132	2.517	2.822	3.112	2.662	2.333	2.172	2.149
133	3.053	2.979	2.845	2.662	2.360	2.172	2.149
134	3.272	3.268	2.708	2.662	2.415	2.200	2.149
135	3.401	3.217	2.630	2.662	2.521	2.200	2.176
136	3.632	3.139	2.603	2.662	2.493	2.254	2.153
137	3.714	2.959	2.603	2.662	2.521	2.254	2.176
138	3.691	2.799	2.603	2.662	2.548	2.282	2.204
139	3.691	2.744	2.603	2.662	2.575	2.282	2.231
140	3.691	2.744	2.603	2.716	2.603	2.391	2.231
141	3.664	2.744	2.603	2.689	2.630	2.442	2.286
142	3.483	2.900	2.603	2.689	2.658	2.497	2.423
143	3.401	2.900	2.630	2.767	2.685	2.474	2.478
144	3.374	2.900	2.630	2.744	2.685	2.474	2.478
145	3.350	2.951	2.783	2.744	2.685	2.501	2.505
146	3.374	2.955	2.865	2.744	2.685	2.501	2.505
147	3.323	2.955	2.896	2.771	2.685	2.501	2.505
148	3.272	3.084	2.975	2.744	2.685	2.501	2.505
149	3.245	3.268	3.002	2.716	2.685	2.552	2.532
150	3.217	3.272	3.213	2.716	2.712	2.607	2.587
151	3.194	3.272	3.213	2.744	2.818	2.662	2.665
152	3.190	3.272	3.264	2.932	2.873	2.634	2.669
153	3.190	3.374	3.292	3.272	2.979	2.662	2.693
154	3.190	3.350	3.346	3.280	2.982	2.767	2.697
155	3.166	3.350	3.319	3.307	3.010	2.904	2.802
156	3.166	3.350	3.319	3.444	3.065	2.959	2.912
157	3.166	3.272	3.319	3.444	3.225	3.014	2.994
158	3.139	3.272	3.319	3.444	3.409	3.014	3.049
159	2.908	3.217	3.319	3.444	3.417	3.041	3.022
160	2.932	3.217	3.319	3.444	3.366	3.096	3.072
161	2.932	3.245	3.319	3.468	3.390	3.069	3.076
162	2.904	3.268	3.499	3.444	3.444	3.307	3.319
163	3.386	3.397	3.769	3.757	3.761	3.613	3.585
164	3.707	3.585	3.875	4.059	4.012	3.937	3.914
165	3.894	3.718	3.957	4.196	4.223	4.208	4.106
166	4.028	3.820	4.086	4.329	4.392	4.266	4.192
167	4.161	3.981	4.145	4.517	4.552	4.399	4.356
168	4.345	4.137	4.352	4.701	4.716	4.564	4.517
169	4.470	4.270	4.638	4.838	4.853	4.724	4.732
170	4.525	4.325	4.701	5.029	4.990	4.889	4.842

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

CANDELA TABULATION - (Cont.)

171	4.579	4.454	4.728	5.213	5.151	5.108	5.084
172	4.579	4.587	4.728	5.378	5.315	5.268	5.225
173	4.630	4.615	4.857	5.538	5.480	5.460	5.413
174	4.681	4.669	5.018	5.566	5.636	5.566	5.581
175	4.759	4.720	5.147	5.671	5.750	5.679	5.636
176	4.814	4.799	5.362	5.863	5.938	5.679	5.660
177	4.916	4.983	5.468	6.024	6.020	5.734	5.742
178	4.943	5.010	5.577	6.262	6.075	5.785	5.797
179	5.022	5.116	5.605	6.349	6.153	5.973	5.957
180	6.121	6.121	6.121	6.121	6.121	6.121	6.121

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	825.13	N.A.	13.30
0-30	1763.72	N.A.	28.50
0-40	2911.04	N.A.	47.00
0-60	5153.67	N.A.	83.20
0-80	6149.5	N.A.	99.30
0-90	6177.22	N.A.	99.70
10-90	5965.41	N.A.	96.30
20-40	2085.91	N.A.	33.70
20-50	3279.98	N.A.	52.90
40-70	2945.71	N.A.	47.60
60-80	995.84	N.A.	16.10
70-80	292.76	N.A.	4.70
80-90	27.71	N.A.	0.40
90-110	1.98	N.A.	0.00
90-120	4.27	N.A.	0.10
90-130	7.16	N.A.	0.10
90-150	13.43	N.A.	0.20
90-180	17.51	N.A.	0.30
110-180	15.54	N.A.	0.30
0-180	6194.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	211.81
10-20	613.32
20-30	938.59
30-40	1147.32
40-50	1194.07
50-60	1048.56
60-70	703.08
70-80	292.76
80-90	27.71
90-100	0.56
100-110	1.41
110-120	2.29
120-130	2.89
130-140	3.34
140-150	2.93
150-160	2.17
160-170	1.39
170-180	0.52

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX505K-UNV.IES

UGR TABLE - CORRECTED

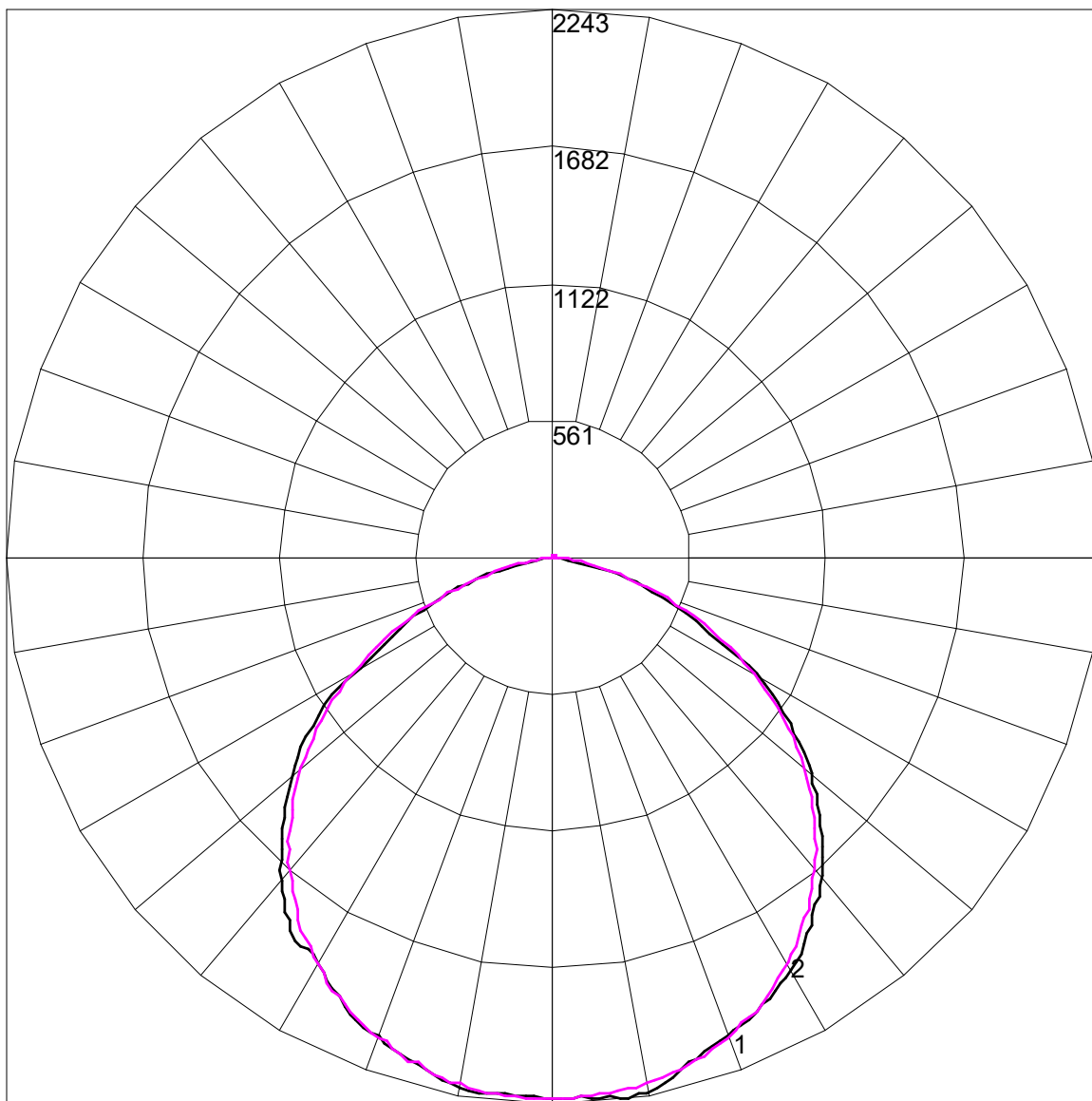
Reflectances

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	18.7	20.3	19.1	20.6	20.9	18.6	20.2	19.0	20.5	20.8
	3H	19.8	21.2	20.2	21.6	21.9	19.9	21.3	20.3	21.6	22.0
	4H	20.1	21.4	20.5	21.8	22.2	20.2	21.5	20.6	21.9	22.3
	6H	20.1	21.4	20.5	21.7	22.1	20.3	21.5	20.7	21.9	22.3
	8H	20.1	21.3	20.5	21.7	22.1	20.3	21.5	20.7	21.9	22.3
	12H	20.1	21.2	20.5	21.6	22.0	20.3	21.4	20.7	21.8	22.2
4H	2H	19.2	20.5	19.6	20.9	21.3	19.1	20.4	19.5	20.8	21.2
	3H	20.4	21.5	20.8	21.9	22.3	20.5	21.6	20.9	22.0	22.4
	4H	20.7	21.8	21.2	22.2	22.6	20.9	21.9	21.3	22.3	22.7
	6H	20.8	21.7	21.3	22.2	22.6	21.0	21.9	21.5	22.3	22.8
	8H	20.8	21.6	21.3	22.1	22.5	21.0	21.8	21.5	22.3	22.7
	12H	20.8	21.5	21.3	22.0	22.5	21.0	21.7	21.5	22.2	22.7
8H	4H	20.9	21.7	21.3	22.1	22.6	20.9	21.8	21.4	22.2	22.7
	6H	20.9	21.6	21.4	22.1	22.6	21.1	21.8	21.6	22.3	22.7
	8H	20.9	21.5	21.4	22.0	22.5	21.1	21.7	21.6	22.2	22.7
	12H	20.9	21.4	21.4	21.9	22.5	21.1	21.6	21.6	22.1	22.7
12H	4H	20.8	21.6	21.3	22.0	22.5	20.9	21.6	21.4	22.1	22.6
	6H	20.9	21.5	21.4	22.0	22.5	21.1	21.7	21.6	22.1	22.7
	8H	20.9	21.4	21.4	21.9	22.5	21.1	21.6	21.6	22.1	22.7

Maximum UGR = 22.8

POLAR GRAPH



Maximum Candela = 2243.325 Located At Horizontal Angle = 340, Vertical Angle = 9
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)