



IES INDOOR REPORT

PHOTOMETRIC FILENAME : TCA_IES_HBX1005K-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] HBX1005K-UNV

[LUMINAIRE] 2FT 100W LED Linear Highbay

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13876
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	104
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	18012	16622	16735
55	16246	14352	14803
65	11722	10813	11466
75	6943	5124	6104
85	537	415	713

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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	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944
1	4969.872	4973.072	4969.179	4961.613	4963.498	4954.381	4981.146	4957.546	4956.730	4965.383
2	4969.960	4977.797	4968.531	4973.458	4990.124	4976.018	4975.272	4950.304	4957.370	4971.722
3	4969.960	4982.628	4986.319	4975.553	4990.702	4966.812	4996.085	4971.143	4941.581	4963.402
4	4980.550	4999.206	4971.608	4981.479	4976.281	4967.251	4969.986	4955.792	4940.765	4971.073
5	4988.090	4994.218	4967.908	4988.195	4989.212	4965.357	4969.863	4956.853	4951.917	4955.415
6	4988.879	4977.070	4976.473	4961.543	4992.692	4973.019	4964.033	4948.445	4937.197	4965.664
7	5002.757	4998.365	4967.899	4971.485	4986.082	4963.568	4962.043	4939.258	4954.495	4948.936
8	5014.277	4993.639	4990.904	4983.487	4986.705	4946.657	4969.793	4949.603	4939.030	4936.487
9	4995.463	5004.247	4971.871	4976.964	4991.851	4948.936	4969.223	4931.516	4914.377	4934.103
10	5011.138	5002.310	4994.849	4993.508	4994.621	4939.293	4940.915	4925.283	4904.987	4914.859
11	4978.525	4987.634	4980.936	4984.416	5006.343	4940.511	4941.151	4902.349	4902.918	4890.338
12	4946.560	4971.564	4965.006	4959.913	4984.846	4927.080	4937.916	4899.543	4875.057	4884.736
13	4903.874	4932.472	4923.810	4943.475	4959.965	4930.070	4919.392	4869.043	4860.583	4871.909
14	4859.320	4886.480	4895.414	4904.610	4945.657	4916.086	4911.913	4854.735	4837.666	4848.519
15	4813.732	4862.389	4849.308	4870.980	4917.130	4887.646	4889.864	4837.376	4819.378	4823.200
16	4798.626	4826.593	4837.490	4822.236	4888.725	4879.440	4876.188	4815.617	4823.025	4801.160
17	4756.106	4806.332	4806.569	4790.674	4843.031	4842.058	4849.115	4811.312	4779.689	4787.895
18	4729.937	4772.378	4764.049	4774.876	4826.838	4828.767	4840.103	4792.279	4757.588	4758.280
19	4703.671	4738.783	4745.568	4748.900	4778.795	4787.922	4812.925	4760.525	4732.698	4738.923
20	4672.574	4704.214	4688.574	4711.421	4738.616	4741.194	4777.480	4737.003	4688.285	4704.197
21	4650.797	4686.391	4685.549	4664.719	4701.260	4706.652	4750.101	4708.300	4671.917	4657.320
22	4640.391	4653.734	4655.461	4638.076	4668.147	4649.447	4713.455	4676.844	4643.406	4624.312
23	4625.075	4615.554	4624.128	4597.643	4614.353	4628.844	4670.312	4659.301	4611.793	4605.287
24	4580.152	4587.920	4570.649	4580.433	4576.453	4592.812	4627.722	4627.836	4566.423	4582.607
25	4545.751	4550.012	4555.885	4549.705	4559.042	4536.011	4574.542	4595.284	4524.394	4532.083
26	4526.595	4530.680	4494.928	4512.199	4520.660	4501.109	4530.943	4552.510	4489.800	4486.530
27	4484.952	4498.716	4470.293	4464.603	4476.351	4444.606	4467.979	4492.807	4452.251	4447.201
28	4440.170	4456.871	4445.018	4436.435	4460.264	4391.040	4412.107	4451.637	4389.646	4384.491
29	4411.782	4417.525	4395.642	4392.249	4416.911	4359.189	4365.422	4412.817	4360.224	4340.857
30	4384.797	4379.800	4354.543	4348.870	4348.292	4316.117	4321.430	4356.585	4303.080	4304.141
31	4335.851	4331.371	4311.803	4304.711	4323.972	4279.418	4248.225	4298.434	4262.366	4263.936
32	4303.115	4288.676	4277.840	4276.455	4258.176	4241.317	4203.724	4252.056	4212.158	4211.886
33	4249.137	4244.341	4226.509	4199.849	4227.333	4161.143	4153.112	4184.156	4165.184	4162.449
34	4180.763	4211.237	4191.038	4158.223	4180.465	4109.102	4097.810	4120.674	4095.434	4096.258
35	4137.463	4161.072	4147.615	4124.549	4124.514	4061.611	4045.155	4057.595	4039.474	4041.473
36	4059.647	4082.485	4081.301	4066.669	4068.265	4008.614	3980.656	3994.447	3998.278	3990.326
37	4003.547	4021.151	4044.971	4017.267	3987.766	3953.154	3930.500	3929.317	3941.441	3934.182
38	3972.617	3972.407	3961.211	3953.216	3938.619	3899.640	3864.520	3862.232	3887.156	3881.431
39	3899.632	3922.531	3905.251	3900.421	3887.095	3831.109	3821.307	3805.965	3821.395	3800.231
40	3834.370	3863.941	3847.915	3841.156	3820.133	3771.449	3745.727	3732.454	3763.629	3750.382
41	3764.681	3788.790	3785.468	3771.002	3762.104	3683.578	3695.247	3660.214	3691.608	3680.851
42	3695.308	3727.562	3722.757	3715.569	3681.570	3630.494	3615.274	3597.907	3632.291	3611.320
43	3640.690	3652.227	3633.799	3645.441	3630.362	3554.738	3546.953	3521.002	3556.614	3541.807
44	3563.373	3584.625	3563.356	3564.154	3553.055	3495.780	3473.363	3450.174	3509.167	3473.073
45	3476.440	3500.277	3489.257	3480.552	3482.568	3432.640	3396.871	3380.853	3412.300	3390.856
46	3414.010	3423.776	3401.342	3417.166	3399.772	3358.164	3337.036	3304.764	3349.739	3317.336
47	3336.115	3340.253	3331.127	3335.502	3341.586	3281.032	3259.045	3226.072	3262.823	3241.370
48	3255.757	3250.172	3253.346	3246.481	3244.816	3188.374	3180.545	3155.112	3185.191	3169.235
49	3161.345	3171.541	3157.996	3166.421	3172.041	3105.236	3102.063	3071.895	3122.691	3084.862
50	3093.559	3090.709	3072.404	3069.423	3081.565	3029.226	3021.862	3001.996	3046.348	3015.594
51	3024.299	3006.090	3003.425	2971.610	2988.933	2943.923	2943.932	2915.001	2954.970	2936.629
52	2925.048	2918.148	2913.739	2882.896	2894.486	2854.369	2862.443	2829.707	2872.464	2838.851
53	2833.635	2822.658	2830.049	2790.028	2791.579	2766.462	2777.158	2749.051	2771.889	2758.475

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54	2746.543	2733.884	2741.792	2707.583	2702.296	2673.251	2700.166	2658.663	2670.113	2674.794
55	2655.156	2644.416	2643.592	2622.455	2604.684	2585.774	2614.389	2566.986	2594.620	2584.222
56	2565.031	2555.651	2545.437	2529.464	2496.254	2491.713	2521.065	2498.341	2479.571	2486.900
57	2466.911	2461.055	2447.676	2434.377	2417.579	2388.964	2430.379	2394.583	2389.744	2399.484
58	2383.467	2371.719	2350.301	2330.777	2311.227	2291.194	2329.278	2291.168	2293.096	2307.895
59	2260.510	2266.375	2262.719	2245.825	2222.171	2194.950	2239.486	2208.083	2205.707	2214.185
60	2156.752	2170.718	2160.250	2144.294	2123.999	2078.244	2123.166	2113.259	2098.881	2123.008
61	2048.024	2058.755	2056.423	2047.892	2016.103	1974.416	2037.933	2026.746	1991.012	2017.357
62	1900.002	1905.253	1949.290	1962.037	1919.105	1870.737	1929.038	1935.438	1893.444	1924.716
63	1751.471	1750.998	1769.996	1849.811	1822.116	1767.059	1824.676	1835.924	1796.060	1826.938
64	1602.949	1596.734	1590.202	1737.181	1725.126	1663.380	1720.331	1736.208	1698.685	1721.427
65	1511.010	1506.197	1481.246	1562.297	1633.485	1570.363	1614.119	1639.990	1591.097	1619.440
66	1431.108	1419.412	1392.515	1389.657	1524.459	1465.351	1510.738	1534.795	1496.562	1518.813
67	1332.628	1325.500	1302.513	1288.749	1394.032	1358.648	1393.295	1439.664	1390.569	1408.883
68	1242.626	1230.150	1206.190	1196.257	1219.604	1266.279	1287.504	1330.839	1280.464	1312.657
69	1147.118	1136.256	1113.637	1108.096	1093.043	1170.263	1186.789	1228.923	1187.464	1214.834
70	1062.771	1058.826	1020.286	1017.130	995.388	1050.778	1087.090	1125.227	1092.921	1115.925
71	972.357	966.641	938.323	918.799	914.381	932.186	993.722	1028.588	993.941	1011.466
72	879.847	867.977	850.329	839.624	832.961	794.369	903.369	926.242	896.671	915.959
73	796.605	792.668	762.738	762.992	738.927	704.437	814.463	823.493	801.427	820.083
74	713.844	701.491	681.941	669.404	662.996	625.894	717.930	722.348	709.478	724.198
75	628.085	621.799	602.275	597.401	592.903	544.299	614.567	631.627	622.729	632.390
76	538.504	532.595	518.419	520.532	509.161	470.095	500.832	542.879	543.414	544.229
77	426.865	418.949	434.571	443.365	437.386	409.945	424.349	462.863	462.635	464.441
78	346.323	340.747	338.283	363.304	372.510	339.870	357.650	385.801	388.887	387.528
79	247.037	252.411	270.804	277.905	305.013	280.746	290.442	319.522	315.743	315.621
80	138.229	146.348	178.899	215.309	225.645	229.748	239.795	243.942	249.281	250.903
81	77.150	80.113	92.492	130.286	172.912	173.832	186.991	185.580	191.261	194.654
82	54.732	55.741	59.887	66.919	106.011	127.227	144.620	140.105	139.360	143.840
83	43.791	44.010	45.720	47.491	54.855	85.040	100.750	102.740	99.760	101.645
84	35.410	35.647	35.848	36.892	39.013	44.457	66.480	71.276	67.594	69.706
85	26.476	27.108	27.634	28.256	28.773	29.720	35.007	44.159	41.670	44.808
86	17.999	18.411	18.998	19.901	20.839	21.155	20.927	23.355	24.162	26.818
87	10.415	10.643	11.003	11.494	12.423	12.458	13.405	13.563	12.397	13.554
88	3.989	4.173	4.322	4.331	4.348	4.550	5.269	5.856	6.093	7.312
89	0.517	0.491	0.649	0.631	0.693	0.736	0.815	0.956	0.929	2.437
90	0.245	0.307	0.307	0.421	0.482	0.473	0.482	0.535	0.666	1.210
91	0.245	0.307	0.307	0.359	0.421	0.473	0.473	0.473	0.596	1.271
92	0.245	0.307	0.307	0.359	0.421	0.412	0.473	0.473	0.544	1.385
93	0.245	0.307	0.307	0.359	0.421	0.412	0.473	0.473	0.544	1.569
94	0.245	0.307	0.307	0.359	0.421	0.412	0.473	0.473	0.544	1.692
95	0.245	0.307	0.307	0.359	0.421	0.412	0.526	0.473	0.544	1.938
96	0.245	0.307	0.359	0.359	0.421	0.465	0.473	0.473	0.596	2.236
97	0.359	0.430	0.421	0.359	0.482	0.412	0.701	0.763	0.658	2.358
98	0.430	0.368	0.482	0.719	0.658	0.763	0.824	0.719	0.719	2.665
99	0.719	0.842	0.666	0.719	0.780	0.763	0.877	0.710	0.842	2.963
100	0.789	1.148	0.850	0.903	0.833	0.877	0.885	0.885	0.780	3.209
101	0.850	1.464	0.850	0.903	0.842	0.885	0.885	0.947	0.894	3.507
102	0.912	2.122	0.912	0.964	0.894	0.999	1.052	0.956	0.956	3.805
103	1.035	2.788	1.026	0.964	1.131	1.113	1.061	1.131	1.131	4.050
104	1.096	2.805	1.087	1.201	1.376	1.289	1.350	1.306	1.254	4.348
105	1.280	2.744	1.271	1.324	1.613	1.464	1.411	1.604	1.438	4.717
106	1.701	2.683	1.508	1.745	1.788	1.587	1.525	1.727	1.674	5.129
107	1.771	2.683	1.990	1.745	1.736	1.648	1.648	1.780	1.797	5.436
108	1.771	2.805	3.331	1.806	1.736	1.762	1.824	1.780	1.859	5.795
109	2.008	2.805	4.533	1.990	1.920	1.876	1.938	1.902	2.034	5.918

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110	2.130	2.805	4.848	2.104	2.034	2.051	2.060	1.902	2.043	6.032
111	2.551	2.981	4.971	2.341	2.218	2.341	2.122	2.016	2.157	6.093
112	2.797	3.165	5.032	2.525	2.393	2.411	2.174	2.253	2.271	6.286
113	2.867	3.463	5.032	2.586	2.577	2.639	2.350	2.376	2.630	6.575
114	2.867	3.594	5.514	2.937	2.691	2.648	2.464	2.490	2.700	7.128
115	2.867	3.717	5.576	3.665	2.814	2.762	2.648	2.613	2.700	7.548
116	2.867	3.656	5.576	4.988	2.753	2.700	2.586	2.560	2.753	7.732
117	2.990	3.656	5.576	6.400	2.876	2.700	2.709	2.560	2.700	8.145
118	2.990	3.656	5.278	7.329	2.937	2.700	2.762	2.613	2.700	8.390
119	3.104	3.656	5.216	7.399	3.226	2.700	2.876	2.674	2.762	8.820
120	3.288	3.717	5.155	7.522	3.761	2.700	2.823	2.849	2.937	9.179
121	3.472	3.779	5.155	7.583	4.471	2.700	2.937	3.147	3.182	9.591
122	3.533	3.901	5.155	7.583	5.795	2.814	3.174	3.445	3.656	9.591
123	3.717	3.963	5.155	7.583	7.031	2.876	3.463	3.568	3.656	9.600
124	3.656	4.322	5.155	7.645	7.601	3.288	3.533	3.568	3.831	9.661
125	3.779	4.506	5.155	7.347	7.785	3.752	3.533	3.796	4.129	9.714
126	3.963	4.629	5.216	6.987	7.724	4.515	3.533	3.919	4.261	9.793
127	4.147	4.752	5.216	6.566	7.969	5.909	3.647	3.980	4.375	10.319
128	4.690	4.813	5.339	6.198	8.259	6.400	4.234	4.217	4.550	10.757
129	4.752	4.874	5.392	6.137	8.329	6.409	4.585	4.454	4.673	11.669
130	4.752	4.936	5.514	6.076	8.329	6.523	4.708	4.690	4.620	12.993
131	4.752	4.874	5.462	6.137	8.145	6.470	5.620	5.287	4.910	14.124
132	4.813	4.874	5.453	6.023	7.732	7.154	7.303	5.462	5.383	15.272
133	4.813	4.997	5.453	5.962	7.198	7.285	8.162	5.997	5.576	15.509
134	4.813	5.059	5.453	5.962	6.724	7.347	8.294	7.645	5.576	15.456
135	4.874	4.997	5.453	5.962	6.295	7.347	8.758	8.372	6.453	15.632
136	4.822	4.997	5.576	5.962	6.286	7.408	9.048	8.381	8.206	18.288
137	4.874	4.997	5.514	5.962	6.286	7.119	9.179	8.495	8.153	19.121
138	4.936	5.059	5.514	5.962	6.172	6.882	9.232	8.504	8.153	18.647
139	4.997	5.243	5.514	5.962	6.172	6.759	9.240	8.855	8.215	18.647
140	4.997	5.243	5.637	5.962	6.111	6.759	9.240	8.802	8.337	18.586
141	5.120	5.365	5.699	6.014	6.111	6.698	9.293	8.802	8.451	18.586
142	5.427	5.602	5.699	6.014	6.049	6.698	9.004	8.741	8.451	18.463
143	5.550	5.734	5.821	6.076	6.049	6.759	8.706	8.741	8.451	18.525
144	5.550	5.672	5.821	6.198	6.049	7.338	8.416	8.565	8.451	18.463
145	5.611	5.672	5.883	6.198	6.049	7.285	8.180	8.267	8.451	18.209
146	5.611	5.672	5.883	6.198	6.172	7.285	7.943	8.031	8.513	17.797
147	5.611	5.672	5.883	6.198	6.461	7.285	7.829	8.022	8.513	16.876
148	5.611	5.672	5.944	6.198	6.645	7.285	7.592	7.908	8.399	15.860
149	5.672	5.734	6.242	6.198	6.593	7.285	7.469	7.846	8.399	15.263
150	5.795	5.848	6.540	6.198	6.882	7.285	7.303	7.908	8.399	15.149
151	5.970	5.970	6.663	6.549	6.891	7.408	7.180	7.785	8.399	15.149
152	5.979	6.093	6.733	7.206	6.891	7.233	7.119	7.610	8.399	15.386
153	6.032	6.216	6.794	7.575	6.891	7.110	7.057	7.610	8.276	15.509
154	6.040	6.277	7.084	7.583	7.119	6.996	7.057	7.434	8.215	15.509
155	6.277	6.575	7.277	7.583	7.426	6.645	6.943	7.373	8.039	15.325
156	6.523	6.768	7.277	7.583	7.548	6.523	6.882	7.259	8.039	15.325
157	6.707	6.768	7.277	7.583	7.426	6.470	6.593	7.136	8.039	15.325
158	6.829	6.768	7.277	7.583	7.426	6.409	6.128	7.136	8.039	15.325
159	6.768	6.768	7.277	7.583	7.426	6.409	6.058	6.426	8.039	15.272
160	6.882	6.768	7.277	7.583	7.426	6.409	6.058	6.417	7.206	14.720
161	6.891	6.829	7.338	7.645	7.487	6.461	6.119	6.365	7.022	13.940
162	7.434	7.303	7.461	7.697	7.548	7.049	6.409	6.645	7.434	13.878
163	8.031	7.908	8.057	8.066	7.662	7.285	7.513	7.583	8.329	13.878
164	8.767	8.776	8.846	8.899	8.083	7.689	8.469	9.056	9.293	13.940
165	9.197	9.135	9.512	9.389	8.381	8.048	8.872	9.556	10.494	14.124

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CANDELA TABULATION - (Cont.)

166	9.389	9.512	9.758	9.626	8.557	8.337	9.170	9.924	10.731	14.124
167	9.758	9.758	10.292	10.038	8.802	8.635	9.354	10.222	11.029	14.054
168	10.117	10.301	10.608	10.582	9.284	9.153	9.591	10.284	11.152	13.580
169	10.599	10.547	10.845	10.889	9.521	9.284	9.819	10.406	11.213	13.335
170	10.845	10.845	11.152	11.248	9.880	9.398	10.161	10.634	11.388	13.089
171	11.388	11.274	11.458	11.616	10.354	9.635	10.178	10.757	11.511	12.791
172	11.704	11.643	11.757	11.976	10.363	10.100	10.292	10.880	11.634	12.616
173	12.125	12.125	12.177	12.274	10.424	10.170	10.415	10.941	11.993	12.309
174	12.502	12.432	12.484	12.397	10.722	10.450	10.468	11.055	11.932	11.704
175	12.624	12.616	12.730	12.572	10.959	10.573	10.529	11.117	11.932	11.467
176	12.677	12.800	13.098	12.879	11.195	10.924	10.652	11.117	11.932	11.344
177	12.861	12.861	13.396	13.238	11.441	11.046	10.880	11.117	11.757	11.344
178	12.984	12.984	13.633	13.536	11.800	11.108	10.941	11.117	11.511	11.344
179	13.343	13.352	13.764	13.782	11.923	11.222	11.169	11.117	11.397	11.344
180	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712

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	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944
1	4972.406	4971.739	4980.725	4971.196	4962.692	4976.509	4997.032	4979.858	4970.573	4972.748
2	4965.865	4963.945	4977.561	4980.366	4955.406	4971.362	4973.878	4986.520	4959.913	4989.422
3	4964.244	4967.926	4979.375	4992.035	4954.223	4979.323	5002.678	4978.937	4967.961	4990.904
4	4979.437	4969.881	4997.093	5004.256	4963.332	4983.917	5000.609	4997.050	4970.161	4996.296
5	4952.005	4963.156	4971.818	4994.323	4962.288	4981.392	4993.315	4987.888	4956.616	5000.223
6	4968.171	4958.676	4978.122	4983.426	4976.184	4989.922	4998.040	4983.171	4966.690	4993.552
7	4937.890	4968.241	4974.027	4973.624	4962.683	4986.406	5004.037	4983.031	4975.369	5000.206
8	4941.721	4942.808	4964.357	4976.175	4961.061	4977.955	5003.932	4979.165	4975.965	4999.575
9	4921.215	4942.107	4948.936	4972.423	4950.821	4982.496	4995.726	4980.103	4969.679	5000.407
10	4925.151	4935.996	4936.610	4986.100	4950.690	4966.023	4986.880	4964.489	4954.495	5008.911
11	4925.388	4910.370	4935.777	4963.779	4943.571	4971.494	4969.521	4947.314	4930.640	4977.140
12	4890.688	4906.714	4928.834	4963.104	4920.198	4934.927	4953.057	4928.386	4925.432	4937.986
13	4878.204	4891.065	4902.839	4957.887	4908.608	4914.237	4933.515	4915.306	4894.765	4927.685
14	4863.782	4865.404	4898.649	4929.719	4886.752	4889.593	4898.666	4868.762	4866.886	4901.253
15	4838.043	4861.021	4873.523	4903.900	4859.758	4872.830	4871.156	4852.473	4827.128	4863.292
16	4817.484	4839.594	4859.723	4858.785	4832.440	4838.946	4835.465	4810.400	4803.553	4835.281
17	4811.978	4823.893	4846.240	4843.732	4815.976	4811.435	4802.221	4790.376	4775.481	4808.997
18	4764.444	4799.740	4837.157	4814.144	4784.450	4787.457	4775.490	4769.450	4754.440	4784.257
19	4750.872	4776.752	4795.189	4798.565	4760.069	4745.726	4747.734	4738.739	4734.425	4734.539
20	4715.313	4747.243	4759.543	4774.201	4729.253	4723.151	4707.029	4707.642	4691.870	4720.179
21	4679.377	4713.534	4730.016	4743.859	4689.345	4686.672	4688.223	4688.653	4673.688	4702.391
22	4660.520	4690.108	4689.337	4704.539	4653.287	4654.479	4667.665	4663.378	4659.669	4669.120
23	4629.493	4664.929	4645.747	4663.939	4614.686	4625.092	4624.627	4630.650	4622.655	4637.690
24	4600.422	4629.502	4608.198	4624.163	4574.770	4595.407	4603.534	4585.080	4603.972	4606.164
25	4561.619	4606.340	4566.721	4581.476	4546.294	4572.297	4558.770	4559.866	4549.749	4561.374
26	4511.375	4550.213	4534.450	4547.390	4524.386	4540.298	4510.919	4519.792	4499.312	4522.369
27	4480.419	4502.635	4494.183	4503.757	4492.482	4488.949	4489.519	4477.666	4460.422	4488.336
28	4418.244	4445.456	4447.867	4462.885	4441.809	4453.759	4446.833	4425.959	4413.001	4448.560
29	4391.338	4420.137	4390.154	4417.419	4391.004	4400.745	4404.821	4387.673	4365.598	4413.185
30	4330.328	4344.820	4339.209	4378.143	4363.047	4346.836	4359.733	4353.526	4315.240	4363.196
31	4290.149	4290.166	4275.613	4317.984	4307.280	4310.348	4306.736	4303.045	4271.686	4324.682
32	4237.205	4240.984	4215.358	4274.140	4251.434	4269.126	4262.971	4288.957	4259.508	4281.373
33	4190.880	4186.812	4166.087	4220.276	4199.577	4212.412	4217.479	4258.596	4255.318	4257.203
34	4143.004	4136.805	4110.627	4160.064	4153.542	4158.249	4215.068	4231.200	4244.841	4221.039
35	4084.931	4073.236	4056.622	4103.798	4089.849	4116.562	4171.312	4187.294	4200.410	4197.245
36	4020.721	4017.355	4011.218	4040.351	4033.495	4073.885	4135.832	4139.462	4137.366	4141.794

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CANDELA TABULATION - (Cont.)

37	3966.357	3942.195	3943.563	3975.440	3988.661	4045.848	4075.699	4081.056	4082.862	4074.077
38	3915.903	3897.642	3882.562	3918.437	3920.769	4009.473	4013.988	4013.261	3997.629	4022.247
39	3844.382	3830.469	3829.969	3853.263	3881.466	3941.424	3958.195	3944.922	3942.380	3944.904
40	3789.764	3764.751	3752.758	3793.323	3833.800	3881.659	3898.080	3890.260	3871.665	3880.335
41	3725.896	3690.547	3700.437	3731.586	3777.963	3817.450	3820.615	3823.218	3821.228	3830.513
42	3658.373	3619.771	3615.081	3672.452	3718.067	3749.970	3768.846	3734.330	3739.836	3744.412
43	3590.849	3548.996	3549.136	3612.688	3666.000	3673.601	3685.682	3657.899	3668.507	3667.911
44	3523.194	3478.070	3483.199	3553.493	3589.140	3597.232	3602.518	3581.468	3597.179	3591.419
45	3431.202	3397.721	3416.815	3494.298	3512.279	3520.661	3519.328	3504.897	3525.780	3515.146
46	3350.318	3325.761	3338.237	3435.051	3435.472	3430.106	3435.130	3422.786	3442.038	3445.861
47	3279.892	3238.942	3261.236	3359.251	3360.900	3347.319	3351.010	3346.802	3361.057	3368.351
48	3203.769	3162.406	3177.038	3282.189	3275.027	3266.470	3274.641	3276.982	3283.347	3292.210
49	3115.967	3090.762	3102.676	3205.426	3179.379	3174.636	3200.867	3194.519	3212.781	3218.374
50	3028.323	3012.306	3019.127	3124.769	3083.976	3101.396	3122.358	3128.767	3142.619	3137.736
51	2939.838	2916.307	2958.030	3039.282	2999.112	3017.496	3045.717	3058.999	3053.748	3057.167
52	2844.339	2820.265	2882.335	2949.683	2906.523	2933.780	2964.175	2986.180	2975.327	2978.948
53	2761.579	2738.846	2813.839	2847.136	2811.603	2840.192	2888.192	2892.856	2902.815	2899.080
54	2675.171	2649.668	2730.193	2740.827	2720.269	2747.096	2798.453	2796.726	2813.900	2812.208
55	2578.462	2554.248	2637.648	2650.457	2640.287	2667.333	2701.516	2709.617	2701.069	2714.973
56	2495.000	2451.481	2549.487	2551.469	2538.923	2572.913	2602.554	2614.100	2611.838	2628.653
57	2396.091	2363.951	2452.770	2452.489	2441.092	2477.388	2502.093	2520.661	2515.726	2523.712
58	2299.023	2266.515	2358.314	2355.141	2346.751	2379.872	2404.648	2402.877	2388.438	2421.217
59	2193.346	2171.568	2260.159	2259.396	2256.994	2282.576	2303.371	2252.996	2218.393	2286.416
60	2092.166	2075.491	2147.801	2154.078	2159.663	2179.406	2165.449	2059.710	2029.087	2086.020
61	1983.227	1984.735	2036.679	2054.950	2064.234	2082.653	1965.842	1920.394	1906.822	1929.126
62	1881.407	1890.919	1922.691	1951.753	1958.609	1939.962	1810.298	1820.809	1823.483	1838.633
63	1788.678	1800.558	1825.360	1846.549	1854.159	1737.409	1709.065	1742.766	1746.509	1760.308
64	1676.584	1704.042	1715.956	1752.164	1753.339	1586.687	1621.369	1657.647	1657.498	1672.936
65	1581.909	1586.248	1612.488	1643.023	1604.712	1492.441	1532.410	1554.047	1561.885	1565.856
66	1472.409	1493.669	1507.600	1542.606	1411.864	1413.416	1437.858	1465.115	1472.321	1464.957
67	1369.730	1397.425	1403.597	1438.279	1292.457	1320.635	1348.452	1376.568	1389.157	1382.258
68	1267.094	1285.321	1291.940	1321.643	1203.087	1223.286	1257.197	1291.502	1288.880	1292.808
69	1165.660	1179.512	1189.682	1161.347	1111.805	1130.680	1163.381	1184.097	1179.179	1190.953
70	1070.398	1076.807	1088.967	1022.828	1022.890	1040.538	1061.465	1097.409	1096.138	1098.444
71	972.918	969.998	988.681	932.625	929.337	947.941	977.529	1007.293	1004.760	1011.405
72	874.403	871.545	893.603	845.937	844.192	856.141	889.780	907.200	912.031	918.668
73	780.675	770.584	781.175	764.859	755.996	775.389	795.167	821.152	822.432	826.132
74	701.001	675.830	658.296	675.103	668.484	690.392	708.452	738.409	732.518	736.016
75	621.335	586.845	575.624	592.456	595.376	603.003	617.740	633.407	629.769	640.657
76	541.073	501.806	500.587	511.151	517.121	529.273	517.244	496.423	495.712	504.541
77	465.414	425.708	426.471	437.307	441.874	436.754	410.111	422.569	422.236	430.609
78	388.282	349.505	356.545	369.827	368.836	337.091	341.343	346.989	348.558	350.689
79	315.016	270.690	292.467	303.680	274.661	278.519	274.670	266.324	262.773	267.832
80	248.001	216.703	235.780	243.766	222.471	221.288	194.566	170.869	162.295	172.368
81	191.769	168.449	181.880	176.515	177.488	146.803	101.408	81.033	79.131	83.541
82	139.772	128.857	137.274	135.915	116.873	67.672	57.082	54.154	53.505	54.312
83	100.356	94.061	96.192	93.184	53.970	47.202	45.054	43.703	43.028	43.590
84	67.857	65.069	66.533	42.476	39.206	36.918	35.463	34.463	33.876	34.235
85	42.748	41.038	35.331	29.422	28.957	27.862	26.704	25.924	25.082	26.091
86	26.205	24.285	20.769	21.199	20.664	19.279	18.016	16.982	16.263	17.587
87	14.010	13.484	13.457	12.861	11.879	10.792	9.775	9.240	9.012	9.880
88	7.303	7.101	5.953	5.304	4.699	4.182	3.744	3.235	3.095	3.621
89	2.148	1.490	1.341	1.061	0.956	0.964	0.789	0.736	0.675	0.675
90	1.148	1.078	1.113	1.070	1.070	1.026	0.912	0.850	0.736	0.789
91	1.210	1.192	1.236	1.245	1.131	1.087	0.973	0.973	0.850	0.859
92	1.333	1.315	1.411	1.298	1.254	1.148	1.157	1.035	1.096	1.043

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93	1.508	1.490	1.648	1.543	1.315	1.324	1.219	1.219	1.166	1.157
94	1.692	1.727	1.815	1.718	1.552	1.385	1.403	1.341	1.289	1.289
95	1.938	1.850	1.876	1.955	1.727	1.508	1.464	1.464	1.464	1.464
96	2.113	2.087	2.113	2.192	1.964	1.692	1.648	1.587	1.587	1.587
97	2.297	2.271	2.358	2.376	2.201	1.990	1.885	1.832	1.710	1.771
98	2.595	2.569	2.700	2.718	2.332	2.113	1.955	2.087	1.955	1.973
99	2.841	2.928	2.937	2.902	2.683	2.420	2.192	2.560	2.139	2.805
100	3.139	3.174	3.226	3.200	3.042	2.718	2.499	2.867	2.262	3.656
101	3.375	3.524	3.577	3.489	3.279	2.963	2.744	3.226	2.507	3.594
102	3.682	3.752	3.814	3.787	3.568	3.261	3.042	3.656	2.867	3.656
103	3.989	4.059	4.103	4.077	3.752	3.498	3.279	3.893	3.060	3.726
104	4.348	4.357	4.454	4.252	4.050	3.796	3.524	3.971	3.358	3.910
105	4.708	4.769	4.813	4.664	4.340	3.980	3.840	4.322	3.726	4.217
106	5.076	5.006	5.164	5.032	4.585	4.278	4.541	4.629	3.963	4.515
107	5.427	5.365	5.453	5.330	4.945	4.576	5.891	4.866	4.270	4.822
108	5.734	5.541	5.690	5.672	5.181	4.831	6.926	5.050	4.524	5.129
109	5.970	5.663	5.804	5.970	5.479	5.120	7.654	5.243	4.883	5.365
110	6.093	5.725	5.865	6.207	5.769	5.365	7.654	5.602	5.059	5.611
111	6.093	5.909	6.102	6.619	5.900	5.550	7.846	5.786	5.304	5.856
112	6.277	6.268	6.330	6.803	6.312	5.795	8.145	5.970	5.550	5.979
113	6.637	6.733	6.742	7.031	6.602	6.172	8.381	6.207	5.795	6.154
114	6.996	6.917	6.926	7.154	6.847	7.075	8.381	6.391	5.856	6.225
115	7.242	7.268	7.215	7.320	6.970	8.039	8.197	6.637	5.918	6.523
116	7.662	7.505	7.443	7.268	7.206	9.617	8.083	6.698	6.163	6.768
117	7.960	7.566	7.557	7.382	7.557	10.976	8.145	6.882	6.461	6.952
118	8.136	7.566	7.855	7.566	7.680	11.327	8.206	7.119	6.645	7.198
119	8.504	7.566	8.092	7.741	8.109	11.511	8.390	7.303	6.952	7.443
120	8.925	7.566	8.381	7.925	8.820	11.686	8.688	7.487	7.136	7.741
121	8.863	7.627	8.679	8.215	9.609	11.993	8.872	7.794	7.505	7.811
122	8.863	7.443	9.021	8.574	10.950	11.993	9.118	8.031	7.803	8.057
123	8.863	7.391	9.144	8.811	11.976	12.028	9.302	8.285	7.934	8.416
124	8.863	7.575	9.433	9.170	12.668	11.502	9.600	8.583	8.171	8.671
125	8.863	7.934	9.609	9.942	12.791	11.204	9.784	8.767	8.600	8.969
126	9.170	8.495	9.679	10.740	13.028	10.906	10.038	9.065	8.846	9.275
127	9.477	9.661	9.977	12.291	13.150	10.845	10.389	9.372	9.275	9.582
128	10.152	10.862	10.433	12.765	13.089	10.845	10.512	9.617	9.574	9.819
129	10.985	11.809	10.617	13.001	13.089	10.906	10.696	9.863	9.696	10.056
130	11.914	12.817	11.143	13.177	13.028	11.029	10.748	10.038	9.880	10.065
131	13.045	13.650	11.914	13.361	12.966	11.090	10.748	10.038	10.003	10.240
132	13.869	14.027	14.185	13.887	12.844	11.388	10.818	10.108	10.249	10.371
133	13.992	14.869	14.422	14.001	12.607	11.511	10.932	10.345	10.371	10.494
134	14.290	15.982	14.483	14.062	12.554	11.572	11.055	10.406	10.494	10.617
135	14.676	16.447	15.009	13.940	12.563	11.748	11.055	10.529	10.669	10.792
136	16.342	16.386	15.237	13.580	12.791	11.879	11.187	10.529	10.678	10.854
137	16.219	16.386	15.298	13.352	12.975	12.177	11.423	10.591	10.854	10.915
138	16.219	16.447	15.237	13.352	13.089	12.414	11.546	10.775	10.854	10.985
139	16.219	16.315	15.062	13.352	13.273	12.589	11.730	11.011	10.976	11.222
140	16.219	15.833	15.062	13.414	13.449	12.896	11.906	11.195	11.160	11.344
141	16.219	15.430	15.062	13.527	13.510	12.958	11.967	11.257	11.344	11.529
142	16.219	15.307	15.062	13.650	13.563	12.958	12.212	11.502	11.590	11.643
143	16.219	15.193	15.062	13.589	13.747	12.958	12.335	11.686	11.713	11.765
144	16.280	15.193	15.062	13.589	13.983	12.958	12.519	11.686	11.888	11.888
145	16.087	15.193	15.062	13.589	14.273	13.080	12.703	11.748	11.949	11.888
146	15.535	15.193	15.062	13.589	14.220	13.194	12.879	11.809	11.897	12.072
147	14.650	15.132	14.939	13.527	14.220	13.378	12.940	12.055	12.134	12.195
148	13.983	15.132	14.886	13.291	14.220	13.501	13.001	12.177	12.256	12.318

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CANDELA TABULATION - (Cont.)

149	14.045	15.193	14.886	13.229	14.097	13.563	13.308	12.361	12.440	12.502
150	13.992	15.009	14.886	13.177	14.071	13.808	13.361	12.598	12.563	12.747
151	14.167	15.009	14.886	13.001	13.142	14.106	13.554	12.844	12.747	12.861
152	14.650	14.825	14.939	12.993	13.089	14.580	13.668	13.028	12.984	12.984
153	14.711	14.536	14.878	12.817	13.028	14.580	13.790	13.142	13.045	13.045
154	14.650	14.413	14.650	12.458	12.966	14.580	13.729	13.089	13.045	13.229
155	14.466	14.352	14.238	12.291	12.668	14.518	13.729	13.264	13.045	13.291
156	14.466	14.176	14.176	12.283	12.554	14.518	13.729	13.326	13.045	13.229
157	14.290	14.176	13.940	12.169	12.432	14.395	13.729	13.387	13.045	13.229
158	14.290	14.115	13.300	12.177	12.318	14.343	13.729	13.449	13.045	13.229
159	14.352	13.940	13.186	12.353	12.318	14.334	13.729	13.449	13.045	13.229
160	14.229	13.343	13.186	12.405	12.195	14.203	13.729	13.449	13.045	13.229
161	14.167	13.343	13.186	12.589	12.195	13.554	13.729	13.449	13.045	13.229
162	14.290	13.343	13.186	12.940	12.134	13.378	13.729	13.449	13.045	13.229
163	14.229	13.405	13.186	12.879	12.020	13.317	13.729	13.449	13.045	13.229
164	14.229	13.466	13.186	12.879	12.020	13.256	13.790	13.510	13.107	13.229
165	14.220	13.703	13.072	12.879	12.081	13.256	13.913	13.510	13.054	13.229
166	14.045	13.703	13.010	12.879	12.081	13.317	13.975	13.571	13.168	13.352
167	13.869	13.703	13.063	12.879	12.379	13.317	14.167	13.817	13.422	13.598
168	13.747	13.580	12.949	12.879	12.432	13.317	14.518	14.001	13.598	13.659
169	13.387	13.282	12.887	12.879	12.432	13.317	14.764	14.246	13.598	13.720
170	13.264	13.045	12.537	12.756	12.432	13.317	14.764	14.430	13.720	13.720
171	12.958	12.870	12.300	12.642	12.432	13.317	14.764	14.606	13.782	13.720
172	12.660	12.440	12.011	12.467	12.432	13.317	14.764	14.544	13.904	13.720
173	12.239	12.090	11.774	12.467	12.432	13.317	14.764	14.544	13.843	13.720
174	11.757	11.441	11.195	12.519	12.432	13.317	14.764	14.544	13.843	13.720
175	11.397	11.502	11.073	12.344	12.432	13.317	14.764	14.606	13.843	13.720
176	11.336	11.441	11.073	12.230	12.493	13.317	14.764	14.483	13.843	13.720
177	11.336	11.441	11.020	12.169	12.370	13.317	14.764	14.483	13.834	13.720
178	11.336	11.441	11.020	12.107	12.195	13.317	14.641	14.483	13.659	13.598
179	11.336	11.502	11.020	11.984	12.125	13.247	14.580	14.483	13.650	13.475
180	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712

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	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944
1	4974.562	4957.949	4981.567	4965.278	4963.367	4948.524	4959.343	4968.566	4986.275	4977.622
2	4966.663	4972.914	4995.086	4959.501	4964.708	4958.852	4958.633	4969.285	4989.238	4959.071
3	4978.621	4958.668	4984.986	4969.854	4975.097	4960.167	4950.672	4990.001	4975.579	4966.970
4	4982.549	4975.071	5013.795	4965.699	4975.869	4979.901	4945.079	4969.512	4967.259	4975.746
5	4970.573	4980.199	4990.711	4953.662	4981.462	4954.898	4956.572	4968.013	4988.774	4972.634
6	4975.474	4977.604	4994.604	4956.870	4973.791	4958.589	4942.195	4956.309	4957.686	4958.948
7	4990.790	4978.183	4976.246	4960.105	4986.380	4942.449	4946.718	4953.294	4955.222	4963.840
8	4994.113	4975.606	4988.239	4963.262	4965.795	4946.148	4942.677	4940.827	4948.533	4957.396
9	4997.313	4984.118	4993.490	4946.447	4957.326	4935.716	4940.003	4929.991	4941.160	4928.956
10	4987.958	4975.334	4971.976	4948.647	4951.154	4932.963	4899.604	4917.270	4907.451	4921.732
11	4978.472	4966.339	4966.619	4936.435	4957.204	4901.077	4904.768	4913.842	4925.932	4924.257
12	4969.197	4936.180	4960.027	4924.722	4940.827	4907.714	4873.146	4884.648	4892.556	4897.036
13	4922.171	4928.211	4934.138	4918.401	4923.275	4873.821	4884.578	4892.275	4897.632	4881.466
14	4893.888	4898.114	4923.293	4895.212	4899.254	4878.239	4861.354	4867.736	4881.132	4880.072
15	4867.000	4868.385	4908.056	4864.782	4884.551	4850.939	4851.570	4815.012	4855.866	4844.004
16	4842.742	4841.970	4874.469	4844.548	4863.888	4832.362	4818.317	4821.876	4837.429	4823.358
17	4810.120	4813.697	4849.054	4826.435	4830.976	4811.391	4791.016	4785.800	4809.602	4795.865
18	4774.832	4788.798	4811.593	4794.883	4811.636	4773.500	4773.956	4754.686	4791.762	4780.040
19	4750.960	4760.963	4773.097	4758.184	4796.575	4761.796	4751.223	4713.788	4757.851	4757.903

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CANDELA TABULATION - (Cont.)

20	4726.439	4724.440	4752.854	4726.667	4761.629	4741.570	4714.586	4702.417	4711.272	4738.616
21	4694.509	4701.672	4719.898	4702.768	4722.800	4708.528	4686.523	4678.562	4713.244	4709.106
22	4670.900	4665.236	4678.939	4656.408	4686.496	4680.780	4651.954	4639.707	4670.207	4697.376
23	4639.172	4615.843	4653.751	4606.234	4647.948	4653.304	4623.295	4610.215	4631.527	4666.841
24	4618.894	4594.504	4615.177	4580.477	4616.816	4611.433	4591.725	4577.794	4590.489	4650.569
25	4579.477	4570.290	4583.352	4543.217	4583.168	4585.588	4557.148	4538.202	4558.691	4580.687
26	4533.608	4532.179	4548.355	4511.516	4542.446	4531.162	4521.019	4499.952	4519.713	4573.691
27	4501.022	4506.939	4514.716	4461.631	4492.132	4496.480	4492.886	4469.197	4492.509	4503.766
28	4447.911	4454.714	4468.882	4427.545	4444.772	4459.212	4449.489	4422.390	4452.417	4473.502
29	4395.099	4420.953	4430.938	4377.275	4404.094	4417.034	4412.808	4362.257	4406.864	4443.379
30	4378.126	4372.077	4393.678	4328.408	4349.282	4359.224	4352.167	4327.014	4361.521	4405.312
31	4319.650	4334.948	4340.699	4293.866	4308.077	4314.644	4319.071	4287.922	4297.575	4326.216
32	4287.668	4281.408	4282.294	4251.820	4264.804	4255.458	4269.091	4222.073	4269.117	4249.128
33	4239.590	4218.435	4225.317	4198.832	4199.375	4187.496	4197.385	4177.397	4188.829	4189.556
34	4200.699	4181.026	4180.000	4164.562	4162.975	4142.583	4146.353	4136.954	4144.047	4118.921
35	4184.226	4133.202	4133.588	4111.600	4090.384	4071.491	4099.993	4081.170	4126.004	4052.572
36	4134.175	4093.882	4079.574	4046.716	4026.858	4025.166	4049.591	4013.831	4048.837	3994.692
37	4090.051	4065.161	4023.167	3997.506	3972.836	3972.924	3993.246	3945.843	3990.019	3934.586
38	4043.235	4016.548	3973.993	3918.989	3911.257	3905.830	3921.935	3894.459	3923.785	3874.146
39	3970.118	3958.537	3935.480	3852.053	3858.146	3836.106	3867.352	3824.481	3859.128	3813.207
40	3892.320	3910.161	3885.578	3787.800	3807.289	3768.521	3814.092	3758.308	3814.653	3742.168
41	3831.302	3836.842	3836.343	3732.866	3737.714	3704.917	3743.290	3710.519	3743.377	3670.191
42	3760.543	3777.218	3768.504	3675.766	3669.761	3638.384	3688.750	3613.196	3682.850	3593.541
43	3680.702	3693.274	3699.893	3599.379	3596.969	3567.222	3614.406	3567.687	3610.891	3538.870
44	3600.861	3609.330	3633.807	3538.764	3524.176	3496.060	3540.062	3485.943	3526.578	3466.787
45	3521.038	3525.465	3567.731	3478.158	3451.392	3424.758	3465.770	3403.455	3453.795	3389.568
46	3442.906	3445.887	3501.557	3417.718	3378.574	3349.897	3393.145	3333.213	3379.880	3295.717
47	3367.194	3371.262	3406.041	3362.022	3304.089	3268.715	3318.660	3273.028	3308.561	3224.783
48	3290.877	3286.669	3309.963	3295.892	3222.714	3200.875	3238.495	3188.488	3219.611	3146.511
49	3215.718	3200.998	3217.673	3213.149	3152.596	3116.782	3150.290	3106.297	3123.375	3073.035
50	3135.947	3110.742	3122.279	3132.870	3075.306	3041.036	3071.483	3025.763	3053.625	2983.393
51	3062.304	3039.387	3022.940	3044.130	2992.554	2951.139	2982.586	2941.328	2939.189	2889.051
52	2977.168	2943.792	2931.983	2939.847	2916.378	2874.200	2886.631	2857.849	2864.591	2810.060
53	2892.891	2867.607	2847.031	2845.908	2836.019	2782.733	2793.219	2765.480	2767.207	2728.220
54	2803.774	2775.816	2745.298	2742.151	2762.675	2695.195	2707.486	2682.746	2671.287	2632.081
55	2710.660	2685.472	2653.674	2635.018	2678.862	2603.676	2624.507	2602.186	2565.969	2548.041
56	2614.837	2583.495	2554.300	2537.547	2591.245	2517.681	2528.236	2504.329	2475.424	2446.940
57	2523.747	2485.576	2457.022	2427.880	2491.809	2414.774	2428.862	2423.313	2376.041	2348.486
58	2424.584	2391.708	2361.768	2328.463	2399.616	2326.183	2335.099	2314.979	2282.348	2257.879
59	2319.582	2298.059	2257.687	2231.920	2289.055	2233.647	2234.559	2225.336	2181.607	2164.309
60	2201.525	2192.539	2153.657	2128.365	2182.194	2141.524	2138.613	2123.595	2080.821	2066.391
61	2003.698	2091.710	2053.109	2028.771	2077.437	2051.285	2027.737	2032.708	1973.224	1971.970
62	1823.019	1964.509	1955.891	1924.111	1967.665	1949.868	1926.084	1933.632	1874.411	1879.259
63	1722.654	1783.523	1848.794	1813.848	1863.987	1866.713	1826.946	1834.398	1775.782	1786.566
64	1631.661	1614.899	1736.637	1711.371	1758.809	1774.116	1728.361	1735.156	1666.861	1693.881
65	1545.657	1513.053	1619.914	1605.194	1654.990	1684.588	1624.008	1624.955	1576.421	1592.368
66	1442.417	1420.622	1426.443	1497.079	1555.038	1584.793	1529.263	1533.243	1466.728	1487.672
67	1353.432	1334.749	1278.474	1399.467	1444.679	1477.722	1430.038	1424.094	1372.789	1379.978
68	1262.623	1232.193	1191.067	1293.939	1337.388	1363.093	1323.010	1324.781	1269.882	1281.946
69	1171.929	1137.650	1109.332	1168.194	1236.007	1250.884	1225.618	1223.882	1173.866	1176.067
70	1069.311	1052.803	1010.493	991.030	1133.030	1148.828	1122.430	1123.912	1077.491	1079.840
71	974.478	955.226	918.948	892.682	1033.279	1048.086	1022.986	1019.479	979.353	971.094
72	888.202	855.992	843.982	810.272	936.693	947.046	923.717	924.480	885.072	872.650
73	795.719	774.179	749.973	727.319	834.399	843.149	829.069	828.148	796.456	767.191
74	703.499	689.603	658.656	646.864	703.964	750.490	736.901	731.694	713.134	675.717
75	621.256	600.680	584.005	573.125	601.828	650.275	650.415	637.896	631.206	589.116

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76	525.985	523.986	504.357	488.304	524.924	558.589	570.153	555.249	548.577	506.733
77	412.294	442.453	430.872	422.534	449.002	478.871	491.075	472.138	467.185	432.204
78	339.134	340.765	360.131	353.249	386.029	401.257	414.136	393.551	386.721	364.260
79	267.420	277.195	275.670	290.705	315.647	317.830	338.503	321.547	318.698	299.367
80	185.974	207.717	214.081	236.762	252.858	249.535	272.128	256.908	252.481	227.995
81	106.282	139.167	162.523	170.536	199.686	195.355	208.269	198.134	191.182	175.682
82	59.274	73.327	103.117	125.912	153.028	149.320	156.912	147.286	145.146	133.732
83	46.272	49.490	57.336	83.208	107.852	108.807	114.024	106.230	105.336	98.611
84	36.988	38.873	41.126	47.465	71.556	78.105	78.964	73.012	73.915	70.259
85	28.037	29.843	31.745	33.700	40.091	50.086	50.647	47.543	47.193	45.448
86	19.358	21.348	23.303	24.530	26.301	28.431	31.377	28.116	29.133	25.275
87	10.924	12.537	14.273	16.096	17.227	17.446	18.297	16.307	16.684	16.438
88	4.296	5.032	5.813	6.926	9.004	10.038	9.942	8.811	9.267	9.319
89	0.728	0.903	0.956	1.113	1.815	2.586	3.367	2.507	2.735	2.630
90	0.850	0.903	1.017	0.999	1.122	1.192	1.201	0.605	0.508	0.579
91	0.973	1.026	1.140	1.061	1.298	1.306	1.262	0.544	0.482	0.535
92	1.035	1.087	1.201	1.298	1.411	1.368	1.324	0.544	0.482	0.473
93	1.148	1.201	1.324	1.411	1.473	1.613	1.499	0.544	0.421	0.473
94	1.333	1.447	1.447	1.587	1.710	1.727	1.683	0.544	0.421	0.473
95	1.394	1.447	1.683	1.771	1.885	1.902	1.920	0.544	0.482	0.473
96	1.639	1.683	1.867	2.008	2.060	2.209	2.165	0.605	0.544	0.596
97	1.762	1.867	2.104	2.236	2.358	2.446	2.341	0.666	0.666	0.710
98	1.938	2.051	2.341	2.472	2.648	2.735	2.525	0.842	0.842	0.833
99	2.069	2.288	2.639	2.823	2.832	2.919	2.823	0.903	0.842	0.947
100	2.314	2.586	2.937	3.060	3.182	3.217	3.182	0.903	0.903	1.008
101	2.665	2.841	3.244	3.358	3.472	3.516	3.428	0.903	0.964	0.956
102	2.858	3.191	3.533	3.594	3.770	3.814	3.726	0.964	0.964	0.956
103	3.226	3.498	3.779	3.884	4.059	4.103	4.024	1.087	1.078	1.070
104	3.524	3.735	4.077	4.182	4.296	4.401	4.322	1.201	1.201	1.131
105	3.761	3.971	4.322	4.541	4.769	4.760	4.682	1.447	1.385	1.420
106	4.059	4.278	4.673	4.997	5.067	5.181	5.041	1.622	1.683	1.604
107	4.629	4.585	4.971	5.234	5.365	5.471	5.400	1.745	1.745	1.727
108	5.848	4.874	5.278	5.532	5.655	5.646	5.699	1.990	1.867	1.727
109	6.926	5.120	5.576	5.821	5.883	5.646	5.935	2.051	1.929	1.841
110	7.294	5.418	5.874	6.181	6.005	5.716	5.997	2.227	2.051	1.964
111	7.882	5.663	6.111	6.523	6.295	5.953	6.067	2.411	2.227	2.139
112	7.882	5.900	6.470	6.882	6.479	6.365	6.242	2.648	2.411	2.376
113	7.882	6.084	6.768	7.057	6.829	6.663	6.488	2.656	2.648	2.621
114	7.882	6.514	7.066	7.171	7.066	6.900	6.900	2.656	2.709	2.621
115	7.882	7.066	7.312	7.233	7.303	7.206	7.136	2.718	2.770	2.683
116	7.882	8.276	7.548	7.356	7.531	7.548	7.443	2.770	2.770	2.735
117	7.943	9.284	7.724	7.583	7.654	7.610	7.864	2.893	2.770	2.744
118	8.250	10.249	7.908	7.820	8.004	7.610	8.162	2.841	2.893	2.744
119	8.372	11.011	8.145	7.996	8.250	7.610	8.408	2.954	2.832	2.744
120	8.671	10.950	8.390	8.171	8.530	7.610	8.758	2.954	2.832	2.858
121	8.916	10.950	8.872	8.408	8.644	7.610	8.697	3.480	3.007	3.156
122	9.100	10.950	9.723	8.653	8.653	7.610	8.697	3.621	3.253	3.454
123	9.337	10.950	10.389	8.942	8.714	7.671	8.758	4.094	3.612	3.577
124	9.652	10.950	11.634	9.170	8.890	7.732	8.697	4.226	3.559	3.516
125	9.951	10.950	12.309	9.407	9.118	7.855	8.635	4.340	3.559	3.577
126	10.196	10.959	13.186	9.758	9.302	8.180	8.697	4.524	3.559	3.691
127	10.555	11.011	13.300	10.652	9.354	9.004	8.995	4.585	3.673	3.814
128	10.731	10.959	13.238	11.231	9.477	10.073	9.188	4.831	3.796	3.989
129	10.792	11.134	13.238	12.405	9.600	11.117	10.038	4.769	3.919	4.278
130	10.854	11.266	12.940	12.940	9.959	11.958	11.117	4.822	4.331	4.524
131	10.915	11.494	12.756	13.580	10.547	12.502	12.011	5.006	4.629	4.708

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CANDELA TABULATION - (Cont.)

132	10.915	11.564	12.756	13.983	11.476	13.098	12.896	5.181	4.760	4.708
133	11.099	11.853	12.817	13.931	12.493	13.764	13.317	5.488	4.708	4.945
134	11.274	11.976	12.817	13.983	13.492	14.930	13.624	5.611	4.883	6.286
135	11.458	12.221	12.817	13.685	14.422	15.579	14.001	5.550	6.058	7.189
136	11.520	12.405	13.063	13.449	14.895	15.877	15.596	7.662	7.233	7.443
137	11.765	12.642	13.422	13.045	15.176	15.816	16.009	8.443	7.531	7.680
138	11.949	12.879	13.475	12.993	15.123	15.693	16.131	8.977	7.829	7.917
139	12.011	13.001	13.536	12.993	15.123	15.693	16.254	9.407	8.013	8.390
140	12.072	13.186	13.659	12.993	15.123	15.640	16.193	9.530	8.136	8.460
141	12.256	13.300	13.659	12.993	15.062	15.693	16.193	9.477	8.381	8.522
142	12.493	13.422	13.843	12.993	15.062	15.632	16.193	9.477	8.557	8.285
143	12.616	13.484	14.018	12.993	15.062	15.272	16.254	9.538	8.381	7.987
144	12.852	13.598	14.317	12.984	15.062	15.158	16.070	9.416	8.145	7.689
145	13.037	13.598	14.378	12.931	15.062	15.097	15.579	9.056	7.908	7.627
146	13.098	13.606	14.317	12.931	15.062	15.097	15.167	8.872	7.899	7.566
147	13.221	13.659	14.317	12.931	15.062	15.097	14.562	8.872	7.899	7.505
148	13.221	13.843	14.317	12.931	15.062	15.097	13.904	8.749	7.899	7.566
149	13.405	13.966	14.317	12.931	15.062	15.106	13.492	8.688	7.899	7.566
150	13.580	14.141	14.378	12.931	15.062	15.158	13.492	8.627	7.960	7.391
151	13.519	14.448	14.255	12.931	15.000	15.097	13.554	8.627	7.838	7.329
152	13.519	14.562	14.132	12.931	14.948	15.097	14.106	8.513	7.838	7.268
153	13.519	14.562	13.589	12.931	14.939	14.913	14.571	8.390	7.776	7.154
154	13.519	14.562	13.177	12.984	14.886	14.562	14.518	8.267	7.715	7.145
155	13.519	14.562	13.177	12.747	14.816	14.325	14.571	8.267	7.838	7.145
156	13.519	14.562	13.177	12.283	14.588	14.273	14.457	8.145	7.776	7.145
157	13.519	14.501	13.177	11.984	14.352	14.150	14.448	8.092	7.776	7.145
158	13.519	14.439	13.177	11.871	14.229	14.150	14.395	8.083	7.776	7.145
159	13.519	14.387	13.177	11.695	13.527	14.089	14.334	8.083	7.776	7.206
160	13.519	14.378	13.177	11.643	13.466	13.729	14.264	8.083	7.776	7.031
161	13.519	14.194	13.177	11.695	13.238	13.492	13.966	8.145	7.601	6.742
162	13.519	13.957	13.177	11.634	13.238	13.440	13.677	7.610	7.478	6.847
163	13.519	13.904	13.177	11.581	13.291	13.440	13.677	8.372	8.495	7.496
164	13.519	13.904	13.361	11.520	13.115	13.431	13.677	9.275	9.574	8.802
165	13.519	13.904	13.414	11.520	12.887	13.317	13.729	10.292	10.775	9.530
166	13.519	13.966	13.414	11.520	12.826	13.194	13.554	10.792	11.029	10.003
167	13.703	13.966	13.598	11.818	12.765	13.142	13.492	10.801	11.029	10.477
168	13.703	14.089	13.904	11.879	12.765	13.080	13.308	10.924	11.090	10.485
169	13.826	14.387	14.203	12.046	12.528	13.133	13.124	10.862	11.090	10.485
170	13.887	14.439	14.378	12.107	12.414	12.721	12.887	10.862	11.213	10.547
171	13.887	14.387	14.317	12.160	12.300	12.598	12.528	11.046	11.511	10.599
172	13.887	14.387	14.317	12.107	12.177	12.423	12.230	11.160	11.572	10.608
173	13.887	14.387	14.317	12.107	12.177	12.423	11.984	11.344	11.809	10.722
174	13.887	14.387	14.317	12.107	12.177	12.423	11.450	11.520	12.169	10.845
175	13.887	14.387	14.317	12.107	12.063	12.125	11.152	11.581	12.353	11.020
176	13.887	14.387	14.317	12.046	12.063	12.125	11.029	11.590	12.361	11.143
177	13.826	14.325	14.317	12.046	12.116	11.888	10.976	11.590	12.423	11.195
178	13.755	14.325	14.255	12.046	11.941	11.827	10.976	11.590	12.002	11.257
179	13.519	14.317	14.317	12.046	11.704	11.590	11.038	11.467	11.765	11.204
180	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712	13.712

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	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944	4965.944
1	4962.008	4985.503	4950.199	4982.356	4977.394	4980.313	4969.872
2	4980.445	4988.616	4941.169	4981.918	4994.718	4969.249	4969.960

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3	4976.912	4984.846	4946.736	4982.558	4997.295	4977.683	4969.960
4	4976.903	4990.492	4978.937	4992.578	5003.309	4988.291	4980.550
5	4983.961	4999.645	4961.394	4995.244	5000.758	4976.745	4988.090
6	4969.171	4987.722	4958.782	4996.594	4999.373	4978.437	4988.879
7	4958.107	4980.901	4937.408	4982.172	5011.296	4983.145	5002.757
8	4954.249	4982.111	4951.672	4986.582	5019.370	4978.507	5014.277
9	4948.349	4971.801	4948.866	4999.101	5024.841	5001.661	4995.463
10	4944.430	4953.180	4940.266	4995.954	5010.972	5002.064	5011.138
11	4929.517	4953.302	4960.754	4983.952	4994.963	4984.951	4978.525
12	4906.469	4957.212	4962.025	4963.928	4983.198	4946.666	4946.560
13	4903.567	4952.680	4941.256	4947.314	4949.366	4919.821	4903.874
14	4885.007	4917.752	4921.075	4918.173	4920.242	4879.809	4859.320
15	4866.746	4913.369	4898.018	4896.983	4869.341	4861.784	4813.732
16	4863.274	4901.814	4871.717	4855.743	4850.018	4839.945	4798.626
17	4863.853	4886.182	4819.132	4802.317	4824.103	4798.968	4756.106
18	4846.389	4837.122	4768.994	4804.246	4787.922	4733.391	4729.937
19	4803.544	4792.603	4741.649	4753.590	4746.164	4709.983	4703.671
20	4779.681	4746.506	4710.632	4715.541	4719.206	4685.698	4672.574
21	4742.158	4709.939	4677.037	4670.759	4690.362	4678.939	4650.797
22	4705.950	4658.003	4634.017	4645.581	4663.439	4642.609	4640.391
23	4672.487	4630.659	4602.684	4628.950	4634.420	4625.154	4625.075
24	4612.485	4603.166	4570.588	4595.539	4616.544	4588.060	4580.152
25	4571.640	4553.667	4540.675	4582.283	4573.945	4562.382	4545.751
26	4509.622	4507.220	4500.040	4522.843	4542.253	4521.510	4526.595
27	4463.113	4459.948	4464.928	4489.388	4505.554	4477.544	4484.952
28	4413.658	4425.117	4446.684	4449.866	4480.963	4426.870	4440.170
29	4381.098	4367.211	4392.293	4439.802	4423.635	4388.155	4411.782
30	4320.220	4344.031	4360.294	4388.900	4385.323	4359.513	4384.797
31	4272.974	4316.529	4306.692	4334.378	4342.155	4324.226	4335.851
32	4210.729	4265.698	4266.390	4278.173	4294.690	4290.482	4303.115
33	4170.813	4214.875	4216.182	4236.986	4270.695	4240.475	4249.137
34	4128.564	4161.923	4180.377	4192.809	4218.952	4194.738	4180.763
35	4062.181	4110.995	4123.734	4157.154	4160.669	4145.862	4137.463
36	4008.141	4058.919	4054.545	4105.498	4100.133	4078.172	4059.647
37	3936.909	4010.192	4013.015	4055.237	4052.449	4037.589	4003.547
38	3882.939	3944.773	3967.681	3999.312	3996.314	3973.976	3972.617
39	3823.560	3870.113	3897.826	3939.057	3944.080	3924.679	3899.632
40	3758.395	3828.829	3861.311	3870.481	3883.395	3862.442	3834.370
41	3684.314	3762.875	3803.633	3814.925	3824.227	3780.479	3764.681
42	3632.878	3706.004	3716.796	3743.816	3746.832	3729.429	3695.308
43	3563.435	3648.317	3639.339	3688.356	3676.520	3661.687	3640.690
44	3500.076	3582.503	3583.415	3622.919	3607.883	3588.798	3563.373
45	3421.865	3498.726	3514.357	3525.360	3519.249	3501.584	3476.440
46	3357.559	3428.177	3444.458	3457.977	3435.016	3414.010	3414.010
47	3272.195	3349.950	3375.076	3376.899	3350.817	3327.997	3336.115
48	3188.461	3284.714	3279.840	3288.581	3265.523	3248.436	3255.757
49	3109.322	3211.352	3207.109	3197.263	3193.432	3176.117	3161.345
50	3039.922	3130.757	3119.491	3102.273	3085.537	3093.357	3093.559
51	2961.379	3045.586	3029.656	3015.331	3019.609	3019.144	3024.299
52	2884.027	2959.687	2941.013	2921.322	2935.726	2923.084	2925.048
53	2806.290	2877.487	2841.841	2829.426	2857.270	2831.557	2833.635
54	2722.583	2775.974	2749.778	2746.947	2748.726	2740.371	2746.543
55	2639.358	2693.363	2644.215	2656.962	2664.493	2649.948	2655.156
56	2544.780	2598.285	2553.810	2567.469	2576.823	2560.911	2565.031
57	2454.699	2486.663	2457.785	2466.446	2473.364	2477.528	2466.911
58	2369.536	2385.948	2376.339	2379.995	2391.208	2383.326	2383.467

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CANDELA TABULATION - (Cont.)

59	2248.657	2286.442	2267.383	2277.640	2289.940	2277.158	2260.510
60	2147.529	2172.208	2172.918	2195.125	2192.767	2166.843	2156.752
61	2058.535	2077.332	2068.845	2092.858	2083.320	2054.240	2048.024
62	1961.467	1977.397	1971.760	1985.515	1970.523	1908.401	1900.002
63	1851.459	1876.506	1872.096	1866.073	1809.623	1762.325	1751.471
64	1741.074	1775.616	1772.407	1746.343	1648.661	1616.240	1602.949
65	1630.688	1674.716	1672.709	1626.612	1528.825	1528.412	1511.010
66	1524.748	1563.533	1556.449	1448.703	1442.364	1431.309	1431.108
67	1422.718	1463.703	1440.909	1340.413	1337.502	1339.510	1332.628
68	1319.995	1368.923	1277.168	1242.407	1249.736	1250.814	1242.626
69	1216.290	1265.797	1135.125	1142.437	1162.206	1156.849	1147.118
70	1119.222	1160.339	1040.196	1057.563	1063.797	1072.265	1062.771
71	1023.898	1025.441	940.568	968.622	985.420	979.686	972.357
72	928.706	875.113	863.699	883.047	902.300	893.971	879.847
73	828.701	782.393	776.616	795.360	814.226	813.727	796.605
74	741.636	689.183	690.892	711.100	724.242	722.261	713.844
75	629.094	611.051	618.363	628.664	638.203	633.854	628.085
76	516.069	525.625	538.390	549.165	550.980	544.930	538.504
77	444.916	458.707	455.437	464.730	462.556	437.920	426.865
78	373.448	386.914	384.372	380.444	363.997	355.116	346.323
79	311.211	320.872	314.683	293.879	281.140	259.600	247.037
80	249.456	256.444	240.400	215.107	178.926	151.643	138.229
81	197.556	198.143	171.027	131.470	98.760	84.488	77.150
82	151.862	140.605	103.126	73.844	62.290	57.047	54.732
83	109.877	84.242	61.387	52.146	48.368	45.448	43.791
84	67.445	49.648	44.449	42.976	40.100	37.076	35.410
85	38.233	36.786	36.681	32.841	30.088	28.028	26.476
86	26.608	25.591	24.653	23.057	21.093	19.287	17.999
87	17.078	16.570	15.062	13.527	12.370	11.213	10.415
88	8.522	7.022	6.260	5.856	5.243	4.462	3.989
89	1.876	1.552	1.192	0.921	0.693	0.552	0.517
90	0.596	0.544	0.535	0.421	0.430	0.368	0.245
91	0.473	0.473	0.421	0.359	0.368	0.307	0.245
92	0.465	0.473	0.421	0.359	0.368	0.307	0.245
93	0.465	0.473	0.421	0.359	0.368	0.307	0.245
94	0.465	0.473	0.421	0.359	0.368	0.307	0.245
95	0.465	0.473	0.421	0.359	0.368	0.307	0.245
96	0.465	0.473	0.421	0.421	0.368	0.307	0.245
97	0.526	0.535	0.535	0.421	0.421	0.421	0.359
98	0.815	0.710	0.710	0.482	0.482	0.544	0.430
99	0.877	0.824	0.771	0.719	0.666	0.842	0.719
100	0.877	0.824	0.833	0.842	0.789	1.096	0.789
101	0.938	0.947	0.894	0.903	0.912	1.394	0.850
102	0.938	1.008	1.070	0.964	0.912	1.753	0.912
103	1.105	1.184	1.070	1.078	1.035	1.824	1.035
104	1.113	1.411	1.245	1.201	1.148	1.885	1.096
105	1.341	1.534	1.482	1.324	1.333	1.885	1.280
106	1.639	1.710	1.604	1.683	1.701	2.008	1.701
107	1.639	1.710	1.727	1.683	1.824	2.183	1.771
108	1.753	1.771	1.780	1.806	2.060	2.542	1.771
109	1.867	1.885	2.025	2.051	2.718	2.735	2.008
110	1.990	2.236	2.323	2.104	3.331	2.858	2.130
111	2.341	2.420	2.376	2.516	3.638	2.919	2.551
112	2.402	2.595	2.674	2.648	3.761	3.042	2.797
113	2.402	2.718	2.674	2.709	3.884	3.165	2.867
114	2.577	2.779	2.849	2.893	4.129	3.340	2.867

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CANDELA TABULATION - (Cont.)

115	2.516	2.893	2.858	2.832	4.129	3.524	2.867
116	2.577	2.841	2.797	3.191	4.313	3.586	2.867
117	2.639	2.893	2.911	3.726	4.375	3.770	2.990
118	2.753	2.954	2.972	4.559	4.550	3.717	2.990
119	2.691	3.007	3.270	5.111	4.734	3.708	3.104
120	2.753	2.954	3.270	5.479	4.857	3.770	3.288
121	2.867	2.954	3.507	5.777	4.796	3.831	3.472
122	2.928	3.016	3.744	6.137	4.796	3.893	3.533
123	2.876	3.016	4.445	6.505	4.796	3.954	3.717
124	2.928	3.068	5.278	6.505	4.796	4.077	3.656
125	2.990	3.244	6.119	6.566	4.857	4.313	3.779
126	3.042	3.480	6.602	6.207	5.041	4.497	3.963
127	3.104	3.954	7.303	6.032	5.102	4.743	4.147
128	3.217	4.717	7.434	6.023	5.216	4.804	4.690
129	3.516	5.190	7.496	5.962	5.164	4.866	4.752
130	3.630	5.611	7.496	5.962	5.164	4.866	4.752
131	4.042	5.848	7.610	5.962	5.225	4.866	4.752
132	5.637	6.321	6.970	5.962	5.225	4.866	4.813
133	6.838	6.672	6.374	5.962	5.287	4.866	4.813
134	7.329	7.320	6.067	5.962	5.409	4.927	4.813
135	7.619	7.206	5.891	5.962	5.646	4.927	4.874
136	8.136	7.031	5.830	5.962	5.585	5.050	4.822
137	8.320	6.628	5.830	5.962	5.646	5.050	4.874
138	8.267	6.268	5.830	5.962	5.707	5.111	4.936
139	8.267	6.146	5.830	5.962	5.769	5.111	4.997
140	8.267	6.146	5.830	6.084	5.830	5.357	4.997
141	8.206	6.146	5.830	6.023	5.891	5.471	5.120
142	7.803	6.496	5.830	6.023	5.953	5.593	5.427
143	7.619	6.496	5.891	6.198	6.014	5.541	5.550
144	7.557	6.496	5.891	6.146	6.014	5.541	5.550
145	7.505	6.610	6.233	6.146	6.014	5.602	5.611
146	7.557	6.619	6.417	6.146	6.014	5.602	5.611
147	7.443	6.619	6.488	6.207	6.014	5.602	5.611
148	7.329	6.908	6.663	6.146	6.014	5.602	5.611
149	7.268	7.320	6.724	6.084	6.014	5.716	5.672
150	7.206	7.329	7.198	6.084	6.076	5.839	5.795
151	7.154	7.329	7.198	6.146	6.312	5.962	5.970
152	7.145	7.329	7.312	6.566	6.435	5.900	5.979
153	7.145	7.557	7.373	7.329	6.672	5.962	6.032
154	7.145	7.505	7.496	7.347	6.680	6.198	6.040
155	7.093	7.505	7.434	7.408	6.742	6.505	6.277
156	7.093	7.505	7.434	7.715	6.865	6.628	6.523
157	7.093	7.329	7.434	7.715	7.224	6.751	6.707
158	7.031	7.329	7.434	7.715	7.636	6.751	6.829
159	6.514	7.206	7.434	7.715	7.654	6.812	6.768
160	6.566	7.206	7.434	7.715	7.540	6.935	6.882
161	6.566	7.268	7.434	7.768	7.592	6.873	6.891
162	6.505	7.320	7.838	7.715	7.715	7.408	7.434
163	7.583	7.610	8.443	8.416	8.425	8.092	8.031
164	8.302	8.031	8.679	9.091	8.986	8.820	8.767
165	8.723	8.329	8.863	9.398	9.460	9.425	9.197
166	9.021	8.557	9.153	9.696	9.837	9.556	9.389
167	9.319	8.916	9.284	10.117	10.196	9.854	9.758
168	9.731	9.267	9.749	10.529	10.564	10.222	10.117
169	10.012	9.565	10.389	10.836	10.871	10.582	10.599
170	10.135	9.688	10.529	11.266	11.178	10.950	10.845

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

171	10.257	9.977	10.591	11.678	11.537	11.441	11.388
172	10.257	10.275	10.591	12.046	11.906	11.800	11.704
173	10.371	10.336	10.880	12.405	12.274	12.230	12.125
174	10.485	10.459	11.239	12.467	12.624	12.467	12.502
175	10.661	10.573	11.529	12.703	12.879	12.721	12.624
176	10.783	10.748	12.011	13.133	13.300	12.721	12.677
177	11.011	11.160	12.247	13.492	13.484	12.844	12.861
178	11.073	11.222	12.493	14.027	13.606	12.958	12.984
179	11.248	11.458	12.554	14.220	13.782	13.378	13.343
180	13.712	13.712	13.712	13.712	13.712	13.712	13.712

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1848.21	N.A.	13.30
0-30	3950.57	N.A.	28.50
0-40	6520.45	N.A.	47.00
0-60	11543.74	N.A.	83.20
0-80	13774.33	N.A.	99.30
0-90	13836.4	N.A.	99.70
10-90	13361.96	N.A.	96.30
20-40	4672.24	N.A.	33.70
20-50	7346.85	N.A.	52.90
40-70	6598.12	N.A.	47.60
60-80	2230.58	N.A.	16.10
70-80	655.75	N.A.	4.70
80-90	62.08	N.A.	0.40
90-110	4.43	N.A.	0.00
90-120	9.57	N.A.	0.10
90-130	16.04	N.A.	0.10
90-150	30.09	N.A.	0.20
90-180	39.23	N.A.	0.30
110-180	34.80	N.A.	0.30
0-180	13875.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	474.44
10-20	1373.77
20-30	2102.36
30-40	2569.88
40-50	2674.61
50-60	2348.68
60-70	1574.83
70-80	655.75
80-90	62.08
90-100	1.26
100-110	3.17
110-120	5.14
120-130	6.47
130-140	7.48
140-150	6.57
150-160	4.85
160-170	3.12
170-180	1.17

IES INDOOR REPORT
PHOTOMETRIC FILENAME : TCA_IES_HBX1005K-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_HBX1005K-UNV.IES

UGR TABLE - CORRECTED

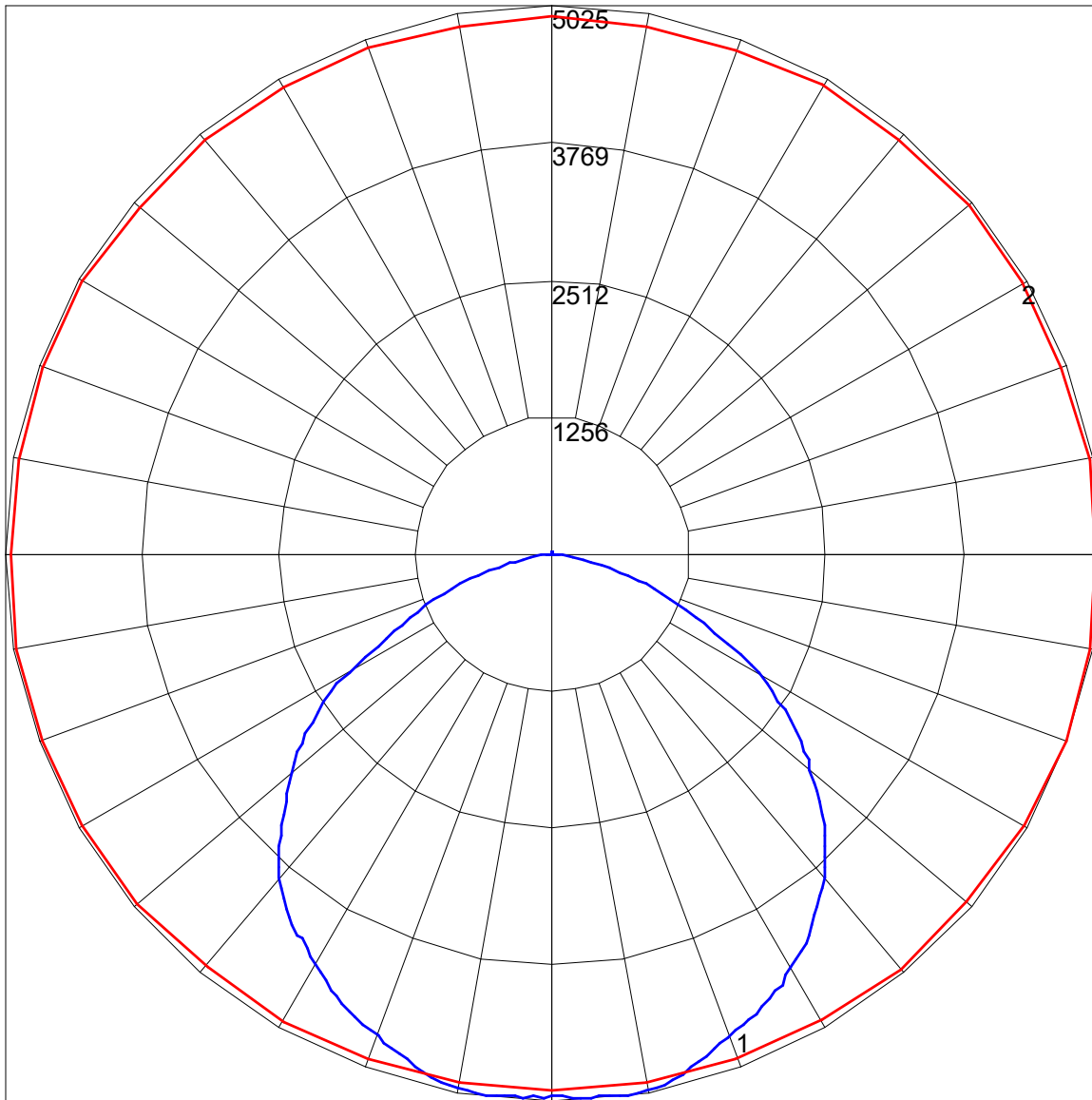
Reflectances

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	21.5	23.1	21.9	23.4	23.7	21.4	23.0	21.8	23.3	23.6
	3H	22.6	24.0	23.0	24.4	24.7	22.7	24.1	23.1	24.4	24.8
	4H	22.9	24.2	23.3	24.6	25.0	23.0	24.3	23.4	24.7	25.1
	6H	22.9	24.2	23.3	24.5	24.9	23.1	24.3	23.5	24.7	25.1
	8H	22.9	24.1	23.3	24.5	24.9	23.1	24.3	23.5	24.7	25.1
	12H	22.9	24.0	23.3	24.4	24.8	23.1	24.2	23.5	24.6	25.0
4H	2H	22.0	23.3	22.4	23.7	24.1	21.9	23.2	22.3	23.6	24.0
	3H	23.2	24.3	23.6	24.7	25.1	23.3	24.4	23.7	24.8	25.2
	4H	23.5	24.6	24.0	25.0	25.4	23.7	24.7	24.1	25.1	25.5
	6H	23.6	24.5	24.1	25.0	25.4	23.8	24.7	24.3	25.1	25.6
	8H	23.6	24.4	24.1	24.9	25.3	23.8	24.6	24.3	25.1	25.5
	12H	23.6	24.3	24.1	24.8	25.3	23.8	24.5	24.3	25.0	25.5
8H	4H	23.7	24.5	24.1	24.9	25.4	23.7	24.6	24.2	25.0	25.5
	6H	23.7	24.4	24.2	24.9	25.4	23.9	24.6	24.4	25.1	25.5
	8H	23.7	24.3	24.2	24.8	25.3	23.9	24.5	24.4	25.0	25.5
	12H	23.7	24.2	24.2	24.7	25.3	23.9	24.4	24.4	24.9	25.5
12H	4H	23.6	24.4	24.1	24.8	25.3	23.7	24.4	24.2	24.9	25.4
	6H	23.7	24.3	24.2	24.8	25.3	23.9	24.5	24.4	24.9	25.5
	8H	23.7	24.2	24.2	24.7	25.3	23.9	24.4	24.4	24.9	25.5

Maximum UGR = 25.6

POLAR GRAPH



Maximum Candela = 5024.841 Located At Horizontal Angle = 340, Vertical Angle = 9
1 - Vertical Plane Through Horizontal Angles (340 - 160) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (9) (Through Max. Cd.)