



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS100HTVHOWT50120-277V_P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB]

[TESTDATE] 26 September 2022

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

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMCAT] HZCAS100HTVHOWT50120-277V_P

[LUMINAIRE] LED

[BALLAST] 100-277VAc 50/60Hz

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4162
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.92
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.09 m
Luminous Width (90-270)	0.09 m
Luminous Height	0.15 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	63191	65310	59563
55	36388	42946	45940
65	26308	30179	27010
75	9699	9535	10988
85	5386	4057	8217

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698
1	1545.042	1524.403	1507.245	1516.297	1526.055	1532.267	1545.042	1551.209	1573.918	1587.993
2	1541.804	1505.152	1495.438	1488.324	1500.945	1524.756	1580.020	1615.725	1642.421	1654.359
3	1588.896	1547.046	1499.535	1485.152	1493.853	1521.099	1591.165	1655.570	1715.196	1712.112
4	1613.522	1596.738	1575.703	1525.637	1509.910	1546.452	1599.029	1690.284	1747.332	1745.702
5	1615.394	1575.130	1557.465	1565.306	1534.976	1549.778	1629.755	1712.266	1724.998	1753.301
6	1591.914	1567.156	1570.967	1670.064	1606.716	1572.971	1666.297	1732.949	1718.478	1751.826
7	1538.324	1579.271	1683.302	1938.720	1932.266	1690.482	1667.729	1743.412	1731.407	1748.522
8	1509.425	1562.883	1732.509	2073.764	2142.200	1844.315	1586.474	1677.024	1820.262	1806.958
9	1481.848	1546.452	1732.156	2100.746	2143.918	1839.777	1595.614	1611.297	1808.500	1850.989
10	1459.932	1498.764	1735.592	2045.724	2091.605	1783.786	1570.152	1512.112	1807.575	1871.187
11	1421.209	1453.941	1718.037	1952.134	2028.499	1697.575	1501.826	1459.271	1791.517	1833.764
12	1372.333	1414.668	1715.130	1891.693	1945.173	1642.377	1432.817	1429.183	1765.328	1795.372
13	1274.139	1355.328	1628.302	1806.804	1863.522	1592.399	1383.787	1449.535	1771.958	1754.028
14	1190.923	1265.241	1544.491	1675.879	1758.081	1537.156	1354.293	1428.919	1709.887	1742.707
15	1100.703	1161.893	1405.571	1505.416	1631.253	1510.218	1344.624	1433.236	1718.808	1748.852
16	1045.813	1103.919	1285.307	1374.139	1473.082	1479.051	1286.848	1446.650	1687.597	1683.037
17	1007.135	1081.827	1187.201	1190.527	1321.121	1344.822	1198.765	1406.276	1642.883	1608.125
18	996.144	1095.505	1172.862	1066.298	1143.435	1218.721	1114.007	1366.848	1545.945	1524.183
19	995.880	1107.664	1178.214	1097.906	1116.496	1123.919	1066.849	1338.456	1492.377	1454.734
20	988.501	1120.461	1206.276	1135.219	1157.840	1119.360	1052.157	1317.751	1445.174	1386.584
21	989.933	1113.875	1230.285	1186.408	1220.329	1136.474	1069.712	1319.492	1409.249	1320.461
22	992.576	1110.461	1248.655	1226.078	1251.672	1172.862	1093.853	1287.333	1338.236	1239.998
23	979.690	1094.228	1251.738	1259.712	1297.729	1196.056	1067.201	1282.465	1302.972	1198.545
24	966.100	1072.576	1229.492	1287.245	1329.227	1193.941	1043.809	1206.782	1219.470	1138.743
25	955.461	1051.981	1203.897	1290.747	1334.558	1190.130	996.805	1091.430	1134.778	1078.897
26	956.452	1044.866	1193.897	1232.025	1323.478	1135.351	955.263	1023.589	1094.492	1061.673
27	954.624	1053.126	1183.082	1206.012	1269.998	1065.924	941.717	1009.536	1127.355	1098.104
28	975.946	1083.479	1211.166	1208.941	1226.496	1014.690	954.228	1039.139	1140.769	1112.025
29	993.985	1122.091	1251.430	1231.981	1248.346	1018.170	948.126	1035.924	1167.377	1130.351
30	994.668	1147.575	1296.628	1255.835	1278.236	1036.827	949.426	1061.474	1193.765	1138.633
31	983.545	1152.884	1311.870	1268.633	1287.840	1042.510	942.223	1072.025	1222.619	1143.479
32	955.703	1150.791	1279.514	1255.813	1285.373	1043.699	939.140	1106.298	1241.210	1157.113
33	914.955	1100.990	1215.329	1212.047	1240.064	1009.844	904.800	1098.479	1224.271	1141.694
34	861.871	1013.501	1121.078	1124.183	1160.505	960.571	868.919	1076.232	1210.174	1116.562
35	818.589	948.325	1049.316	1059.734	1098.655	908.126	821.342	1021.496	1159.932	1089.051
36	797.003	897.532	999.029	1006.651	1050.461	869.624	798.677	984.492	1104.360	1060.153
37	772.642	856.981	965.065	970.924	1003.192	844.162	765.197	962.488	1072.223	1022.840
38	755.880	847.752	939.096	943.787	955.681	808.964	740.638	937.928	1050.263	1003.809
39	743.017	833.567	940.748	933.082	925.924	780.638	720.153	908.171	1007.113	970.968
40	745.462	836.012	934.294	941.717	905.395	762.334	696.100	878.765	970.990	957.862
41	769.558	846.827	944.756	951.122	913.369	758.787	693.898	835.483	937.003	932.730
42	810.946	899.558	980.483	1004.272	955.175	762.158	700.572	825.285	913.148	921.188
43	849.801	949.712	1031.827	1049.844	993.677	798.369	730.197	840.285	948.809	933.963
44	874.514	996.540	1083.280	1104.139	1048.567	844.757	781.100	905.990	1000.395	988.853
45	873.919	1025.395	1115.373	1139.095	1094.932	885.814	823.743	969.404	1062.333	1030.571
46	847.444	1027.047	1120.197	1154.338	1133.611	929.734	858.060	1030.681	1102.796	1089.778
47	807.179	993.545	1103.435	1141.760	1126.694	943.963	854.999	1050.087	1122.928	1103.853
48	758.699	944.558	1041.673	1094.007	1106.122	928.633	844.206	1056.650	1113.148	1098.435
49	709.911	888.699	977.510	1028.391	1053.787	901.651	808.193	1012.862	1070.131	1052.906
50	671.651	843.016	928.787	976.871	1005.395	853.611	766.937	971.871	1022.091	1004.095
51	634.559	809.514	883.171	938.369	963.369	819.404	741.409	930.373	971.937	954.778
52	596.541	764.360	846.783	891.298	916.849	781.849	711.343	895.109	934.052	929.140
53	572.048	730.021	811.519	852.796	881.981	758.259	698.655	863.281	908.919	903.082

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CANDELA TABULATION - (Cont.)

54	541.343	688.655	779.492	822.113	858.743	743.523	676.188	842.003	891.497	886.475
55	518.391	659.955	751.343	791.497	833.391	721.343	654.470	815.395	873.281	865.285
56	493.678	619.823	719.536	767.003	809.735	688.303	626.893	784.602	850.594	820.175
57	478.766	600.550	693.237	730.219	771.431	655.704	601.607	753.545	809.580	788.964
58	460.726	580.880	670.814	716.409	735.241	612.929	574.515	708.193	756.254	757.246
59	449.845	564.581	653.347	701.078	700.462	590.924	539.537	679.647	720.748	723.193
60	440.220	558.722	642.929	688.744	671.849	549.228	506.233	640.175	674.140	687.378
61	432.070	557.114	640.682	672.620	645.219	531.849	493.281	609.096	639.492	652.092
62	424.206	550.396	634.867	655.748	632.400	512.114	468.237	585.330	616.982	622.532
63	410.506	546.056	619.206	629.206	595.704	488.369	440.947	564.118	589.537	589.911
64	396.035	542.973	589.581	602.885	577.554	465.726	417.158	532.576	552.951	565.396
65	374.361	519.272	554.559	569.140	541.871	438.546	384.339	495.902	518.193	525.484
66	348.480	477.400	509.779	518.810	499.515	400.418	346.101	454.074	481.541	476.960
67	324.207	431.872	451.189	463.590	443.193	356.343	304.295	407.092	423.766	417.731
68	307.995	399.669	410.704	412.114	386.762	314.251	263.568	348.810	359.185	357.026
69	290.771	371.806	377.092	370.330	343.766	268.656	217.764	278.612	296.938	293.326
70	271.652	344.317	346.365	336.035	301.233	224.625	201.566	232.356	256.982	252.202
71	248.722	314.096	309.493	295.881	260.572	208.235	185.520	222.863	240.176	244.207
72	220.837	275.198	270.330	249.493	225.132	192.456	169.476	217.535	230.022	235.396
73	191.790	229.339	228.260	206.934	207.850	176.678	162.110	208.700	221.365	227.334
74	162.724	202.768	204.912	192.588	197.268	169.947	156.830	202.729	215.542	220.352
75	133.656	176.661	182.169	178.436	186.696	163.967	151.423	196.828	205.762	214.099
76	121.436	150.550	159.425	164.284	176.123	157.555	147.881	190.925	199.632	207.513
77	115.998	143.667	152.072	155.583	167.927	152.784	145.707	184.674	193.623	198.451
78	110.718	136.244	143.967	146.555	159.658	146.033	143.264	182.196	187.612	189.339
79	106.758	131.423	135.623	137.418	152.718	141.213	142.196	181.372	184.429	184.405
80	102.467	125.357	125.154	127.995	144.661	135.308	140.004	176.949	179.727	177.458
81	95.401	115.207	112.940	116.236	135.509	130.156	134.531	170.599	173.363	169.806
82	89.002	106.744	101.147	106.037	126.158	123.863	125.678	160.531	163.553	156.405
83	83.495	99.112	91.383	94.031	114.628	113.293	116.537	150.229	154.361	144.266
84	77.438	87.037	80.125	81.694	103.099	103.967	109.198	141.414	144.189	133.665
85	69.548	76.150	71.685	73.024	93.896	97.857	106.114	134.859	136.531	124.202
86	63.866	69.024	63.037	63.619	87.319	93.260	95.899	123.645	125.753	114.528
87	58.031	61.491	57.592	59.603	82.859	85.912	90.548	117.722	118.595	107.423
88	55.143	58.498	56.976	56.493	75.007	80.632	85.498	110.899	110.436	100.874
89	54.099	56.462	54.070	50.949	68.625	76.106	81.493	103.119	102.460	92.260
90	51.705	53.665	51.216	49.802	66.374	71.427	72.861	92.788	90.059	81.819
91	50.685	53.744	51.240	49.659	63.009	66.786	70.227	88.716	85.033	76.238
92	51.648	54.194	51.136	47.989	59.599	64.956	68.469	86.810	82.255	74.758
93	53.009	54.659	48.973	46.079	57.240	63.484	66.601	83.359	79.308	71.947
94	49.630	50.586	47.178	45.548	55.991	62.084	65.236	80.696	76.310	70.764
95	48.846	50.121	46.912	44.689	53.652	59.273	63.619	78.022	73.471	68.888
96	48.240	49.973	46.903	44.773	52.623	57.586	61.791	74.912	70.570	66.639
97	47.978	49.753	46.918	45.196	51.755	56.487	60.251	72.751	68.352	64.502
98	47.617	49.304	47.031	45.535	50.894	55.368	59.125	70.747	66.423	63.385
99	47.438	49.097	47.198	45.751	50.322	54.513	57.810	68.870	64.458	62.308
100	47.522	49.194	47.562	46.533	50.469	54.308	56.795	67.099	63.101	60.998
101	47.927	49.346	47.947	47.467	50.570	54.295	55.881	65.643	61.764	59.863
102	48.152	49.515	48.211	48.108	51.044	54.286	55.145	64.410	60.899	59.229
103	48.350	49.751	48.802	48.297	51.007	53.804	54.421	63.310	59.888	58.621
104	48.650	50.139	49.264	48.568	50.998	53.258	53.830	61.837	59.035	58.355
105	49.042	50.731	49.835	48.932	51.132	53.189	53.350	60.579	58.315	57.123
106	49.573	51.326	50.429	49.357	51.088	53.099	53.101	59.855	57.502	54.731
107	49.868	51.714	50.960	49.965	51.198	53.020	52.566	58.606	55.370	51.573
108	49.985	51.791	51.062	50.401	51.225	53.231	51.575	56.418	52.432	51.194
109	49.769	51.187	50.661	50.297	51.383	53.236	49.018	52.645	51.665	52.352

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CANDELA TABULATION - (Cont.)

110	49.297	50.738	49.918	49.678	51.112	52.916	48.802	52.465	52.159	53.009
111	48.742	50.636	49.531	49.053	50.681	52.322	48.601	52.383	52.328	52.784
112	48.247	50.548	49.670	48.956	50.603	52.053	48.339	51.676	51.359	51.753
113	47.822	50.877	50.489	49.509	50.720	52.207	48.002	51.311	50.687	50.271
114	47.885	51.324	51.755	50.771	51.427	52.291	47.577	51.346	50.284	49.451
115	48.108	51.828	53.130	52.225	52.672	52.672	47.548	51.619	50.522	49.416
116	48.577	52.518	54.121	53.130	53.727	53.485	47.621	52.262	51.566	50.324
117	49.366	53.379	55.022	53.976	54.573	54.152	47.888	53.209	53.020	51.881
118	50.059	54.013	55.771	54.782	55.231	54.987	48.222	54.335	54.403	53.399
119	50.648	54.487	56.443	55.577	55.822	55.751	48.839	55.240	55.747	54.445
120	50.958	54.799	56.899	56.211	55.996	56.328	49.493	55.903	56.368	55.114
121	51.216	55.132	57.381	56.848	56.513	56.742	50.020	56.414	56.705	55.775
122	51.434	55.731	57.760	57.548	56.958	56.985	50.577	56.888	57.396	56.308
123	51.639	56.086	57.921	58.035	57.306	57.033	50.947	57.381	57.945	56.755
124	51.573	56.423	58.073	58.297	57.262	56.861	51.123	57.841	58.269	57.447
125	51.222	57.007	58.335	58.625	57.496	56.714	50.907	57.859	58.247	57.943
126	50.837	57.128	58.619	58.665	57.359	56.154	50.306	57.573	57.980	58.240
127	50.579	56.786	58.403	58.570	57.317	55.473	49.562	57.377	58.145	58.498
128	50.449	56.526	58.176	58.150	57.183	55.018	49.214	57.229	58.317	58.187
129	50.753	56.509	58.238	58.037	57.114	54.760	49.029	57.346	58.665	58.141
130	50.764	56.500	58.421	57.916	57.203	54.619	48.874	57.271	58.273	57.628
131	50.775	56.709	58.667	58.097	57.068	54.546	48.652	56.947	57.760	56.647
132	50.786	57.002	58.738	58.108	56.916	54.729	48.302	56.826	57.432	55.989
133	50.797	56.914	58.484	57.813	56.839	54.707	48.026	56.894	57.123	56.015
134	50.811	56.469	57.742	57.178	56.711	54.676	47.978	57.031	57.405	56.291
135	51.013	56.251	56.883	56.042	56.885	54.502	48.033	56.423	57.344	56.275
136	51.271	56.117	56.722	55.502	56.769	54.092	48.238	55.727	57.317	56.059
137	51.467	56.073	56.830	55.467	56.266	53.777	48.467	55.011	57.108	56.161
138	51.788	55.921	56.672	55.577	55.597	53.570	48.573	54.652	56.973	56.057
139	52.233	56.022	56.599	55.729	55.619	53.504	48.855	54.634	56.874	56.207
140	52.546	55.969	56.454	55.559	55.828	53.614	48.998	54.625	56.698	56.297
141	52.707	55.667	56.112	55.161	55.630	53.489	49.121	54.377	56.542	56.306
142	52.568	55.260	55.531	54.703	55.053	53.148	48.896	53.700	55.892	55.890
143	52.255	54.588	54.894	54.176	54.308	52.496	48.548	52.665	55.163	55.370
144	51.791	53.912	54.249	53.667	53.416	51.863	48.324	52.192	54.575	54.923
145	51.233	53.339	53.650	53.286	52.429	51.148	48.004	51.374	53.758	54.440
146	50.440	52.744	52.736	52.784	51.330	50.231	47.148	50.407	52.859	53.766
147	49.700	51.780	51.918	52.150	50.522	49.522	46.088	49.766	52.207	53.185
148	49.322	50.692	51.020	51.460	49.755	48.421	44.894	48.780	51.414	52.432
149	48.998	49.929	50.454	50.542	49.330	47.568	44.099	48.249	50.645	51.749
150	48.656	49.971	50.192	49.747	49.447	47.024	43.760	48.141	49.899	51.192
151	47.949	49.949	49.500	48.665	48.819	46.711	44.747	47.764	48.822	50.418
152	47.066	49.117	48.632	47.447	47.614	46.211	45.154	47.359	48.211	49.211
153	46.022	47.092	47.518	46.670	46.200	45.758	44.478	45.586	46.797	48.295
154	44.960	45.242	45.681	45.324	44.698	44.786	42.965	44.348	45.427	46.385
155	43.916	43.286	43.711	43.718	43.013	42.870	40.379	42.819	43.588	44.222
156	42.703	41.344	41.564	42.026	41.181	40.863	38.714	40.929	41.568	42.293
157	41.214	39.421	39.079	39.731	39.280	39.170	37.524	39.288	39.760	40.222
158	38.800	37.163	36.760	37.062	37.024	37.742	36.595	37.511	37.751	38.143
159	36.079	34.866	34.681	34.780	34.967	36.178	35.438	35.284	35.542	35.736
160	33.800	32.855	32.692	32.610	32.883	34.291	33.489	33.590	33.427	33.148
161	31.883	31.026	30.786	30.445	30.762	32.275	31.531	32.189	31.663	30.833
162	29.879	29.064	28.766	28.295	28.899	30.581	30.099	30.744	30.231	28.846
163	27.949	27.152	26.368	26.592	27.255	28.465	28.885	29.447	29.031	27.163
164	26.196	25.476	23.811	25.121	25.744	26.150	27.689	28.322	27.553	25.839
165	24.275	23.841	21.427	23.262	23.848	23.438	26.251	26.914	25.727	24.579

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CANDELA TABULATION - (Cont.)

166	20.528	20.640	19.043	20.620	21.031	20.777	24.253	25.013	23.819	23.220
167	16.738	17.433	16.659	17.972	18.195	17.959	20.883	22.463	21.246	21.238
168	12.948	14.226	13.906	15.323	15.359	15.024	17.483	19.127	18.661	19.251
169	9.331	10.439	10.908	12.169	12.151	12.085	14.083	15.775	16.076	17.263
170	6.203	7.189	7.741	8.905	9.076	9.146	10.601	11.877	12.550	13.589
171	4.090	4.689	5.422	6.204	6.398	6.401	7.293	8.300	8.986	10.030
172	2.528	3.117	3.704	4.331	4.509	4.207	4.893	5.684	6.265	7.126
173	1.889	2.174	2.560	2.848	3.053	3.016	3.156	3.648	4.377	5.041
174	1.780	1.827	1.966	1.983	2.119	2.207	2.144	2.372	2.904	3.258
175	1.830	1.854	1.852	1.842	1.835	1.838	1.824	1.850	1.986	2.060
176	1.866	1.890	1.887	1.875	1.858	1.830	1.835	1.853	1.857	1.843
177	1.907	1.922	1.919	1.907	1.888	1.854	1.853	1.873	1.873	1.861
178	1.949	1.959	1.951	1.937	1.913	1.879	1.870	1.894	1.892	1.882
179	1.990	1.989	1.979	1.960	1.932	1.904	1.888	1.915	1.911	1.904
180	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698	1548.698
1	1605.570	1619.249	1613.654	1606.011	1588.478	1583.742	1594.800	1596.518	1574.579	1559.866
2	1668.984	1665.042	1613.037	1631.165	1612.178	1611.826	1618.522	1617.134	1614.293	1608.676
3	1741.848	1682.685	1616.694	1621.341	1619.403	1650.152	1666.363	1661.473	1635.725	1607.200
4	1775.636	1694.117	1673.324	1634.579	1658.676	1714.954	1709.689	1690.901	1653.588	1669.469
5	1751.583	1721.605	1711.738	1681.980	1735.790	1747.575	1684.777	1624.315	1606.033	1656.628
6	1753.566	1766.980	1740.835	1776.605	1844.226	1724.711	1587.685	1527.839	1513.786	1575.857
7	1737.487	1701.407	1727.927	1878.367	1951.319	1689.050	1509.227	1440.196	1427.729	1552.883
8	1635.108	1624.954	1659.998	1878.786	1941.143	1670.328	1486.342	1393.963	1418.038	1568.786
9	1586.848	1489.601	1604.227	1825.636	1864.975	1665.636	1416.430	1347.795	1367.135	1609.976
10	1541.385	1437.421	1532.156	1755.592	1779.050	1645.438	1416.496	1324.536	1329.337	1549.667
11	1499.161	1387.289	1484.976	1740.240	1738.037	1656.363	1370.240	1272.707	1268.985	1452.994
12	1509.139	1369.756	1500.086	1723.742	1642.200	1564.425	1314.866	1225.835	1193.501	1375.659
13	1555.240	1362.862	1440.615	1669.888	1532.068	1437.333	1287.157	1164.448	1136.276	1315.417
14	1578.170	1320.901	1375.240	1577.090	1429.139	1355.857	1249.624	1097.135	1070.835	1251.033
15	1582.993	1289.249	1303.544	1502.729	1352.421	1283.368	1213.567	1032.113	1001.981	1203.302
16	1562.817	1215.747	1234.646	1440.240	1339.844	1240.637	1202.113	981.827	965.990	1169.139
17	1488.214	1165.769	1188.567	1406.518	1293.588	1218.170	1193.963	950.043	957.444	1150.835
18	1413.985	1089.514	1126.144	1372.751	1267.399	1190.813	1166.849	948.016	954.514	1085.990
19	1354.205	1044.382	1096.562	1309.381	1255.857	1170.108	1141.122	947.400	950.461	1067.223
20	1294.051	1014.073	1066.078	1300.240	1221.584	1161.628	1110.329	950.307	963.897	1077.576
21	1253.368	1018.633	1063.170	1237.663	1154.602	1139.580	1089.382	967.972	974.800	1105.968
22	1208.104	1012.730	1025.880	1211.893	1137.399	1162.818	1093.941	984.118	993.809	1131.606
23	1177.311	1006.210	1037.443	1195.967	1140.285	1180.130	1100.968	987.532	988.545	1138.170
24	1148.302	1037.818	1054.360	1200.042	1151.342	1194.227	1091.650	995.946	1000.814	1160.373
25	1132.487	1042.972	1059.822	1164.095	1158.985	1221.298	1111.606	1000.770	999.690	1158.016
26	1103.060	1014.800	1052.730	1173.567	1204.580	1254.183	1115.857	1004.602	980.263	1155.725
27	1099.888	998.369	1036.981	1177.509	1212.399	1275.681	1128.963	985.637	960.549	1153.214
28	1095.880	989.448	1039.051	1171.738	1220.108	1289.293	1147.355	992.245	938.215	1159.492
29	1092.355	983.435	1019.910	1206.562	1231.738	1303.787	1159.844	973.435	919.206	1147.642
30	1122.289	976.827	1000.439	1235.329	1243.104	1304.293	1171.915	957.554	918.193	1154.646
31	1151.849	967.400	992.862	1264.602	1258.148	1305.813	1198.368	952.245	930.285	1166.496
32	1172.333	947.223	965.637	1272.465	1265.086	1279.536	1205.593	947.245	909.382	1145.285
33	1152.025	929.052	936.695	1257.752	1233.214	1233.038	1197.752	910.792	867.025	1073.677
34	1127.928	888.567	895.726	1199.183	1176.320	1174.249	1136.122	870.726	814.228	1007.554
35	1085.681	858.787	862.025	1152.003	1143.104	1112.333	1077.113	815.572	780.263	975.417
36	1052.862	830.417	829.426	1098.919	1099.316	1060.241	1029.888	775.836	756.937	945.087

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CANDELA TABULATION - (Cont.)

37	1028.501	808.016	796.453	1043.897	1057.708	1017.025	974.844	742.818	744.008	907.818
38	986.254	777.135	765.351	977.466	987.796	973.941	928.435	727.995	738.854	882.378
39	962.576	751.871	735.792	922.356	941.607	943.853	898.721	718.479	731.387	850.175
40	932.069	731.871	723.259	892.752	908.567	932.862	882.113	720.682	736.321	860.131
41	910.836	729.426	705.572	899.668	926.078	944.007	901.254	744.669	755.263	885.748
42	921.541	733.964	727.928	936.474	953.523	976.540	942.994	776.959	812.994	960.968
43	960.043	763.083	753.457	968.853	998.170	1014.448	995.593	819.712	851.893	1017.025
44	1010.637	795.660	783.545	1012.642	1041.386	1066.254	1055.813	855.990	884.118	1063.082
45	1058.567	836.827	818.479	1060.461	1092.906	1098.479	1093.545	870.351	891.034	1077.532
46	1110.637	855.417	834.999	1068.280	1111.584	1099.910	1114.051	879.690	894.096	1079.051
47	1113.016	854.646	830.417	1064.888	1096.144	1066.122	1096.584	856.254	864.228	1048.302
48	1098.699	841.320	813.413	1035.549	1052.840	1014.448	1063.435	819.779	834.690	1006.232
49	1058.038	797.179	777.576	983.369	991.562	963.126	1018.545	785.263	820.153	974.977
50	1005.571	752.202	747.158	932.906	948.941	921.166	979.866	754.823	790.836	951.122
51	959.470	724.184	709.338	890.792	911.739	896.452	944.382	727.136	762.158	912.576
52	922.135	702.818	680.043	862.730	883.016	870.726	914.778	710.748	749.118	873.435
53	893.082	678.545	664.316	841.475	871.122	857.510	884.823	692.951	730.043	843.435
54	878.281	660.594	646.255	821.871	855.902	841.585	858.721	678.633	714.735	822.752
55	865.880	660.726	637.995	823.038	850.880	822.730	843.016	674.845	685.814	789.030
56	837.312	653.633	628.105	815.175	836.364	810.043	828.787	652.356	653.017	756.298
57	807.069	629.713	629.977	806.276	824.735	793.193	804.294	628.876	618.347	718.832
58	772.246	601.034	620.572	785.241	794.184	768.920	783.655	601.849	588.193	694.867
59	745.506	576.761	597.664	754.360	763.809	738.655	748.347	574.074	560.682	666.849
60	711.607	553.017	577.378	728.347	732.003	707.202	712.730	541.982	528.303	635.638
61	680.440	526.123	548.259	687.664	692.003	666.783	677.114	514.757	506.057	618.810
62	652.136	497.687	510.924	648.920	656.475	631.056	637.708	479.118	475.506	596.453
63	618.061	470.352	477.554	613.215	612.796	587.114	591.387	443.480	444.955	571.343
64	582.686	442.202	444.096	567.775	558.017	534.779	539.515	407.841	414.251	534.250
65	537.841	402.466	404.603	514.691	500.065	476.673	475.814	371.167	378.590	482.863
66	479.449	364.427	366.387	461.585	442.114	418.700	412.312	326.211	335.815	431.453
67	421.431	323.700	328.414	408.810	384.361	372.885	357.224	286.630	289.273	379.757
68	361.916	285.616	294.339	365.770	339.713	334.845	316.563	257.070	236.013	317.444
69	308.590	254.229	262.268	320.991	298.744	296.409	284.295	222.158	197.260	280.749
70	260.638	225.396	237.026	280.660	260.682	260.198	252.951	192.112	178.398	245.903
71	253.238	213.178	215.401	252.995	233.392	229.603	222.885	173.918	168.949	214.832
72	245.308	206.788	201.200	242.004	222.136	211.713	205.046	163.740	160.621	185.790
73	238.017	198.927	193.583	232.379	212.898	203.257	196.616	155.951	151.874	173.973
74	229.868	191.026	187.125	222.929	205.694	195.553	191.784	150.015	145.429	164.266
75	220.749	182.771	180.108	214.079	198.995	189.517	188.713	146.669	138.592	156.037
76	210.575	177.132	175.550	207.189	196.381	188.244	187.718	145.064	134.698	149.445
77	202.440	169.163	169.819	202.194	193.940	186.678	187.313	146.634	131.806	143.951
78	194.308	163.209	166.901	198.218	193.161	185.350	186.771	147.044	129.965	142.194
79	186.176	159.625	162.451	195.453	190.665	181.544	183.306	146.460	125.729	138.335
80	182.601	155.762	159.802	191.564	185.868	175.544	177.665	142.773	119.557	133.872
81	173.716	150.000	152.733	184.548	175.821	166.709	168.588	136.224	112.269	129.588
82	160.757	140.813	144.068	171.597	164.011	155.083	159.037	128.412	103.733	120.154
83	148.476	130.050	132.698	158.445	151.354	147.046	149.420	120.546	95.910	108.625
84	137.718	121.286	123.506	147.187	142.623	137.284	142.524	114.932	88.244	99.209
85	127.698	111.647	115.995	137.471	131.258	126.381	129.925	104.918	83.848	88.989
86	116.603	102.544	104.980	125.006	120.414	115.740	121.641	99.533	78.275	77.478
87	109.597	96.427	98.308	116.993	114.189	110.617	118.006	96.176	71.385	69.388
88	104.782	91.744	92.399	110.929	110.258	111.797	116.562	93.037	65.337	63.405
89	96.570	84.258	88.570	103.625	106.551	103.877	109.665	89.473	60.636	59.570
90	86.537	77.383	79.841	97.073	98.205	96.936	100.711	79.407	57.650	59.401
91	81.269	73.542	74.755	91.037	90.255	87.907	91.447	73.685	54.747	54.238
92	80.247	71.980	70.998	85.762	84.269	82.504	83.821	70.445	51.359	52.687

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CANDELA TABULATION - (Cont.)

93	76.740	70.462	69.057	81.273	79.112	77.471	77.658	65.403	50.346	52.031
94	74.978	68.236	65.859	77.714	74.984	71.617	70.103	62.773	51.079	52.310
95	72.780	66.535	63.581	73.888	70.339	65.123	62.434	57.053	49.306	54.031
96	70.998	64.736	61.804	71.233	65.170	57.667	53.921	50.434	48.749	51.943
97	69.264	64.086	59.780	68.244	59.559	50.806	48.326	47.718	47.154	49.551
98	68.196	63.081	58.366	65.570	55.128	45.929	46.007	47.544	46.736	49.092
99	65.570	61.262	57.370	61.881	50.855	43.403	46.099	47.866	46.914	49.108
100	63.916	60.370	55.769	57.652	47.844	43.738	46.617	48.438	47.432	49.678
101	62.694	59.344	53.643	54.985	47.610	45.024	47.586	49.134	47.998	50.315
102	61.200	58.436	52.132	52.857	48.339	46.020	48.445	49.826	48.588	51.057
103	59.747	57.326	50.777	52.694	49.170	46.861	49.403	50.555	49.383	51.791
104	57.130	54.685	50.000	52.592	49.817	48.103	50.077	51.185	50.145	52.599
105	54.293	51.788	49.544	52.654	50.150	49.013	50.923	51.614	50.577	53.394
106	50.515	51.207	49.610	52.656	50.570	49.377	51.236	52.088	50.956	53.910
107	50.866	52.084	50.297	53.410	51.042	49.705	51.546	52.374	51.460	54.013
108	51.725	52.764	50.969	53.892	51.793	50.220	51.467	52.509	51.890	53.766
109	52.418	53.170	51.253	54.227	52.227	50.559	51.659	52.363	51.727	53.945
110	52.663	53.700	51.725	54.103	52.297	50.396	51.570	52.308	51.473	53.709
111	52.471	53.815	51.621	53.921	52.216	50.187	51.086	52.119	50.985	53.101
112	51.451	53.011	50.985	53.518	51.681	49.678	51.037	51.804	50.540	52.736
113	49.782	51.936	50.205	52.581	50.870	48.885	50.491	51.293	50.079	52.471
114	49.597	51.608	49.971	52.562	50.608	48.551	49.890	50.837	49.852	52.200
115	49.841	51.555	49.771	52.835	51.189	49.130	50.399	50.711	49.912	51.863
116	50.518	51.681	49.954	52.940	52.145	49.967	51.220	51.081	50.119	52.253
117	51.456	52.103	50.540	53.496	53.233	51.062	52.035	51.597	50.518	52.573
118	52.511	52.813	51.240	54.366	54.485	52.172	52.705	52.055	51.136	52.841
119	53.465	53.374	51.987	55.097	55.480	52.762	53.108	52.418	51.696	53.125
120	54.139	53.659	52.370	55.511	56.211	53.218	53.557	52.910	52.218	53.548
121	54.628	54.159	52.846	56.170	56.890	54.357	54.350	53.520	52.625	54.299
122	55.396	54.705	53.537	56.901	57.445	55.619	55.295	54.048	53.108	55.112
123	56.214	54.844	54.315	57.806	58.152	56.350	56.207	54.678	53.652	56.266
124	56.683	54.892	54.784	58.295	58.808	56.960	56.766	55.317	54.020	57.306
125	56.914	55.099	55.150	58.308	58.989	57.647	57.504	55.740	54.176	58.086
126	56.762	55.119	54.705	58.714	59.042	58.134	57.969	55.443	53.714	58.432
127	56.879	54.310	53.703	58.681	59.337	58.308	57.910	54.965	53.451	58.372
128	56.650	53.337	52.848	58.042	59.368	58.264	57.370	54.641	53.269	57.962
129	56.326	52.652	52.152	57.205	59.059	57.883	56.991	54.529	53.090	57.736
130	55.951	52.161	52.046	56.958	58.625	57.471	56.879	54.553	53.123	57.478
131	55.145	51.905	51.861	56.817	58.139	56.945	56.775	54.597	53.084	57.399
132	54.650	51.799	51.683	56.910	57.982	56.806	57.192	54.758	53.513	58.040
133	54.817	52.176	51.914	57.555	58.163	57.147	57.813	55.040	54.128	58.509
134	55.396	52.696	52.247	58.119	58.394	57.645	58.350	55.286	54.762	59.366
135	55.570	52.766	52.471	58.236	58.509	58.000	58.797	55.643	55.482	60.368
136	55.322	53.090	52.562	58.077	58.709	58.185	59.101	56.330	55.996	61.013
137	55.233	53.588	52.859	58.070	59.040	58.573	59.379	56.960	56.258	61.544
138	55.361	54.136	53.198	58.163	59.385	58.771	59.522	57.423	56.531	61.786
139	55.681	54.275	53.236	57.907	59.423	58.980	59.507	57.542	56.872	61.841
140	55.892	54.262	53.194	58.020	59.310	58.892	59.480	57.443	56.879	61.877
141	55.848	54.143	53.112	58.026	58.727	58.537	59.139	57.304	56.749	61.551
142	55.524	53.749	53.026	57.753	57.960	57.846	58.581	57.123	56.614	61.007
143	54.929	52.998	52.868	57.170	56.940	57.040	57.932	56.720	56.242	60.458
144	54.377	52.427	52.703	56.573	55.654	56.269	57.134	56.123	55.788	59.711
145	53.676	51.727	52.537	55.945	54.330	55.394	56.214	55.211	55.218	58.960
146	52.709	50.302	51.636	54.907	52.791	54.394	55.335	54.286	54.227	57.910
147	51.630	48.793	50.284	53.791	51.652	53.357	54.504	53.053	52.603	56.775
148	50.273	47.317	49.095	53.044	51.130	52.612	53.500	51.784	50.815	55.284

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CANDELA TABULATION - (Cont.)

149	49.478	45.947	47.815	52.163	50.037	51.775	52.482	50.910	49.500	53.874
150	48.980	45.740	47.788	50.991	48.509	50.592	51.485	50.654	48.993	52.914
151	48.258	45.046	48.236	49.614	48.070	49.751	51.667	50.733	48.687	52.363
152	47.348	43.568	46.784	46.722	47.209	49.304	51.590	50.471	47.956	51.980
153	46.306	42.524	44.068	43.830	45.969	47.936	50.081	49.233	46.753	50.993
154	45.185	41.443	41.352	40.938	43.879	45.383	47.121	47.568	45.443	49.438
155	43.681	38.923	38.639	38.101	41.788	42.833	45.139	46.203	44.046	47.921
156	41.330	37.004	36.143	35.352	39.696	40.286	43.154	44.286	42.652	46.379
157	39.152	34.634	33.753	33.163	37.478	37.965	41.170	42.370	41.255	43.965
158	36.773	32.350	31.617	31.090	34.985	35.540	38.998	40.449	39.502	41.551
159	34.183	30.145	29.606	29.181	31.841	32.872	35.736	37.674	37.302	39.130
160	31.846	28.264	27.557	27.258	28.905	30.339	32.932	34.815	34.405	36.196
161	30.112	26.597	25.553	25.205	26.559	27.630	30.641	31.954	31.502	32.910
162	28.685	24.912	23.967	23.916	24.392	24.967	28.515	29.410	28.952	29.762
163	27.183	23.392	22.214	22.575	22.326	22.623	26.452	27.077	26.482	27.454
164	25.907	21.925	20.182	20.665	20.433	20.188	24.434	24.855	23.892	25.335
165	24.590	20.457	18.293	18.668	18.657	17.954	22.021	22.352	21.061	23.258
166	22.740	18.620	16.416	16.664	16.848	16.273	19.158	19.801	18.264	20.064
167	20.361	16.779	14.356	14.458	14.756	14.595	16.822	17.255	15.615	16.131
168	17.967	15.013	12.259	12.171	12.332	12.746	14.433	14.204	12.525	12.119
169	15.578	12.835	9.828	9.704	9.410	10.356	11.242	10.568	9.086	8.853
170	12.231	10.083	7.405	7.270	6.811	7.531	8.103	7.620	6.446	5.952
171	9.050	7.547	5.566	5.466	4.938	5.496	5.696	5.455	4.615	4.164
172	6.442	5.470	4.217	4.178	3.676	3.952	4.174	3.987	3.438	2.913
173	4.698	3.972	3.302	3.281	2.817	3.003	2.990	2.759	2.528	2.378
174	3.045	2.686	2.598	2.601	2.322	2.438	2.410	2.211	2.177	2.145
175	1.971	1.873	2.234	2.246	2.233	2.228	2.196	2.177	2.132	2.108
176	1.821	1.790	2.182	2.188	2.190	2.181	2.152	2.136	2.100	2.072
177	1.843	1.818	2.135	2.140	2.140	2.133	2.101	2.080	2.052	2.035
178	1.866	1.847	2.083	2.089	2.086	2.079	2.048	2.024	2.002	1.991
179	1.888	1.875	2.060	2.058	2.050	2.039	2.012	1.986	1.968	1.958
180	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030	2.030

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	1548.698	1548.698	1548.698	1548.698	1548.698
1	1545.174	1536.385	1542.465	1531.606	1545.042
2	1573.610	1566.914	1566.848	1547.245	1541.804
3	1585.416	1574.778	1601.760	1581.474	1588.896
4	1695.636	1692.663	1674.028	1633.390	1613.522
5	1767.685	1823.015	1733.984	1656.980	1615.394
6	1744.711	1826.870	1686.936	1619.447	1591.914
7	1768.346	1842.795	1671.672	1537.949	1538.324
8	1758.566	1791.738	1682.244	1503.897	1509.425
9	1746.143	1786.143	1729.821	1500.438	1481.848
10	1671.738	1732.729	1726.870	1511.958	1459.932
11	1556.980	1629.733	1683.654	1463.434	1421.209
12	1414.073	1495.306	1592.377	1419.557	1372.333
13	1294.712	1391.121	1499.139	1355.042	1274.139
14	1209.712	1285.791	1399.844	1252.906	1190.923
15	1160.593	1204.448	1294.646	1172.774	1100.703
16	1122.069	1160.351	1228.787	1101.166	1045.813
17	1078.743	1108.391	1186.871	1065.791	1007.135
18	1035.505	1055.725	1139.448	1055.880	996.144
19	1007.576	1031.584	1106.672	1018.016	995.880

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CANDELA TABULATION - (Cont.)

20	999.250	1024.051	1078.941	1009.910	988.501
21	1020.990	1054.558	1103.655	1011.342	989.933
22	1065.813	1093.611	1122.774	1023.126	992.576
23	1113.302	1145.946	1139.756	1023.126	979.690
24	1150.769	1184.205	1146.628	1021.276	966.100
25	1175.571	1204.536	1157.906	1031.805	955.461
26	1182.443	1223.456	1178.677	1033.963	956.452
27	1197.972	1240.108	1203.787	1034.250	954.624
28	1190.681	1244.712	1207.730	1038.699	975.946
29	1182.575	1249.249	1213.941	1036.981	993.985
30	1190.086	1248.831	1231.540	1046.761	994.668
31	1201.981	1263.500	1255.989	1051.606	983.545
32	1187.047	1223.699	1248.236	1035.791	955.703
33	1124.095	1155.527	1200.042	997.906	914.955
34	1064.294	1104.954	1153.985	951.144	861.871
35	1029.095	1063.875	1109.932	903.369	818.589
36	994.272	1018.567	1057.311	863.831	797.003
37	961.386	993.038	1039.778	838.501	772.642
38	928.677	970.307	1021.518	830.880	755.880
39	902.267	944.690	1003.743	812.928	743.017
40	910.307	942.179	991.585	801.254	745.462
41	950.087	972.818	1007.730	809.074	769.558
42	1021.606	1034.448	1074.382	850.968	810.946
43	1075.131	1081.672	1120.042	879.889	849.801
44	1108.875	1110.835	1130.153	897.752	874.514
45	1113.699	1125.747	1132.664	897.686	873.919
46	1093.589	1096.805	1094.007	874.624	847.444
47	1059.316	1064.139	1040.858	830.770	807.179
48	1005.329	1009.162	981.981	789.911	758.699
49	960.351	966.717	931.717	746.739	709.911
50	914.096	912.422	879.624	703.876	671.651
51	867.906	867.025	835.087	668.303	634.559
52	821.915	814.030	789.999	633.633	596.541
53	784.514	774.779	750.990	600.197	572.048
54	751.321	728.435	714.757	573.766	541.343
55	716.343	686.188	678.633	543.568	518.391
56	680.329	653.039	640.550	517.422	493.678
57	650.990	625.858	610.638	491.365	478.766
58	629.272	592.070	581.915	473.259	460.726
59	610.990	570.550	553.127	455.132	449.845
60	600.241	554.449	533.986	437.136	440.220
61	589.206	543.788	520.440	428.854	432.070
62	579.360	538.479	509.757	417.577	424.206
63	548.413	517.356	494.911	406.695	410.506
64	521.409	484.955	473.215	399.295	396.035
65	476.982	452.554	451.519	393.414	374.361
66	432.554	419.955	429.471	377.334	348.480
67	385.154	363.656	386.740	345.000	324.207
68	336.762	330.088	354.273	315.000	307.995
69	300.088	302.599	327.753	291.806	290.771
70	261.850	272.687	303.458	271.277	271.652
71	222.489	239.625	275.969	251.189	248.722
72	188.420	206.938	245.044	225.198	220.837
73	156.176	171.086	211.449	199.156	191.790
74	146.401	146.850	176.354	171.202	162.724
75	137.266	131.317	141.394	141.705	133.656

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CANDELA TABULATION - (Cont.)

76	131.617	124.742	127.727	118.581	121.436
77	127.427	121.907	121.876	111.103	115.998
78	124.872	117.625	116.161	106.769	110.718
79	122.017	113.167	112.222	102.698	106.758
80	119.610	109.445	109.163	99.725	102.467
81	114.176	104.207	104.802	96.381	95.401
82	108.099	99.070	100.877	92.222	89.002
83	99.725	92.156	95.885	88.489	83.495
84	91.610	84.546	88.903	83.478	77.438
85	80.183	72.892	79.614	76.965	69.548
86	69.200	66.156	73.526	70.143	63.866
87	63.167	61.764	67.476	65.324	58.031
88	59.099	58.037	64.125	61.943	55.143
89	56.535	58.544	63.971	60.533	54.099
90	54.751	53.835	61.280	59.733	51.705
91	52.716	52.630	59.225	57.262	50.685
92	52.993	52.987	58.068	56.740	51.648
93	50.077	51.599	57.683	57.645	53.009
94	50.121	50.894	56.368	55.509	49.630
95	52.874	50.890	54.310	54.445	48.846
96	48.174	48.218	53.465	53.872	48.240
97	46.874	47.482	52.002	52.645	47.978
98	46.760	47.011	51.577	52.500	47.617
99	47.033	47.258	51.108	52.079	47.438
100	47.766	47.857	50.766	51.553	47.522
101	48.496	48.544	50.912	51.888	47.927
102	49.586	49.432	51.553	52.357	48.152
103	50.694	50.218	51.916	52.703	48.350
104	51.390	51.134	52.181	52.793	48.650
105	52.412	52.037	52.636	53.086	49.042
106	53.062	53.066	52.799	53.423	49.573
107	53.388	53.216	52.544	53.511	49.868
108	53.174	52.976	52.238	53.154	49.985
109	52.921	52.652	51.949	52.912	49.769
110	52.458	52.088	51.718	52.304	49.297
111	51.648	51.421	51.603	51.951	48.742
112	51.366	50.996	51.606	51.866	48.247
113	51.037	50.766	51.159	51.295	47.822
114	50.910	50.848	51.084	50.885	47.885
115	51.013	51.007	51.288	50.883	48.108
116	51.678	51.692	52.022	51.467	48.577
117	52.277	52.394	52.687	52.114	49.366
118	52.780	53.070	53.319	52.676	50.059
119	53.313	53.540	53.670	53.207	50.648
120	53.799	53.982	53.987	53.795	50.958
121	54.255	54.396	54.317	54.304	51.216
122	54.837	55.114	54.998	54.614	51.434
123	55.639	56.037	55.888	54.863	51.639
124	56.410	56.861	56.634	55.258	51.573
125	57.174	57.760	57.125	55.518	51.222
126	57.535	58.222	57.271	55.114	50.837
127	57.542	58.227	57.066	54.617	50.579
128	57.440	58.059	57.024	54.524	50.449
129	57.291	57.885	56.824	54.661	50.753
130	57.269	57.685	56.799	54.976	50.764
131	57.526	57.996	57.418	55.291	50.775

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CANDELA TABULATION - (Cont.)

132	58.062	58.639	58.317	55.967	50.786
133	58.623	59.205	59.262	56.685	50.797
134	59.656	59.971	59.987	57.051	50.811
135	60.705	61.009	60.423	57.099	51.013
136	61.899	62.088	60.577	57.147	51.271
137	63.022	62.797	60.760	57.236	51.467
138	63.597	63.370	60.912	57.262	51.788
139	63.830	63.590	60.824	57.357	52.233
140	63.907	63.418	60.586	57.308	52.546
141	63.348	62.855	60.330	57.203	52.707
142	62.385	62.139	60.031	57.068	52.568
143	61.542	61.421	59.511	56.852	52.255
144	60.802	60.868	58.797	56.374	51.791
145	60.273	60.333	58.159	55.844	51.233
146	59.557	59.685	57.293	55.029	50.440
147	58.335	58.553	56.324	54.059	49.700
148	56.729	57.236	55.174	52.727	49.322
149	55.603	56.295	54.154	51.777	48.998
150	55.172	55.965	53.377	51.526	48.656
151	54.736	55.709	53.502	51.855	47.949
152	53.714	55.004	54.035	51.870	47.066
153	51.810	53.784	53.112	50.542	46.022
154	49.822	52.070	50.247	48.134	44.960
155	47.689	49.595	47.793	46.366	43.916
156	45.403	46.639	45.335	44.407	42.703
157	43.117	43.685	42.877	42.451	41.214
158	40.815	40.731	40.416	40.485	38.800
159	37.877	38.042	37.610	37.965	36.079
160	35.064	35.183	35.114	35.570	33.800
161	32.559	32.249	32.522	32.925	31.883
162	30.150	29.128	29.991	30.170	29.879
163	27.436	26.059	27.341	27.264	27.949
164	24.958	23.482	24.892	24.412	26.196
165	22.304	21.246	22.725	21.990	24.275
166	19.303	18.929	20.446	19.769	20.528
167	15.939	16.365	17.769	17.351	16.738
168	12.018	12.449	13.791	13.790	12.948
169	8.569	8.800	9.908	10.026	9.331
170	5.842	6.040	6.980	6.971	6.203
171	3.996	4.356	4.849	5.042	4.090
172	2.722	3.009	3.378	3.580	2.528
173	2.233	2.343	2.470	2.550	1.889
174	2.164	2.189	2.188	2.186	1.780
175	2.130	2.146	2.146	2.145	1.830
176	2.085	2.101	2.090	2.086	1.866
177	2.034	2.047	2.031	2.032	1.907
178	1.983	1.990	1.976	1.970	1.949
179	1.949	1.960	1.944	1.935	1.990
180	2.030	2.030	2.030	2.030	2.030

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	534.55	N.A.	12.80
0-30	1054.82	N.A.	25.30
0-40	1682.14	N.A.	40.40
0-60	3077.96	N.A.	74.00
0-80	3719.45	N.A.	89.40
0-90	3834.2	N.A.	92.10
10-90	3675.16	N.A.	88.30
20-40	1147.6	N.A.	27.60
20-50	1882.63	N.A.	45.20
40-70	1842.69	N.A.	44.30
60-80	641.49	N.A.	15.40
70-80	194.62	N.A.	4.70
80-90	114.75	N.A.	2.80
90-110	121.23	N.A.	2.90
90-120	172.63	N.A.	4.10
90-130	222.79	N.A.	5.40
90-150	300.45	N.A.	7.20
90-180	327.52	N.A.	7.90
110-180	206.30	N.A.	5.00
0-180	4161.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	159.04
10-20	375.51
20-30	520.27
30-40	627.32
40-50	735.04
50-60	660.78
60-70	446.87
70-80	194.62
80-90	114.75
90-100	65.90
100-110	55.33
110-120	51.41
120-130	50.15
130-140	43.65
140-150	34.01
150-160	20.21
160-170	6.50
170-180	0.37

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92
1	107	102	98	94	103	99	95	92	93	90	87	88	86	83	83	81	80	77
2	97	89	83	77	94	87	81	75	82	77	72	77	73	70	73	70	67	64
3	89	78	70	64	86	76	69	63	72	66	61	68	63	59	65	61	57	54
4	81	70	61	54	78	68	60	53	64	57	52	61	55	50	58	53	49	46
5	75	62	53	47	72	61	52	46	58	50	45	55	49	44	52	47	43	40
6	69	56	47	41	67	55	46	40	52	45	39	50	43	38	47	42	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	39	34	43	38	33	31
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	51	38	31	26	37	30	25	35	29	25	34	28	24	23

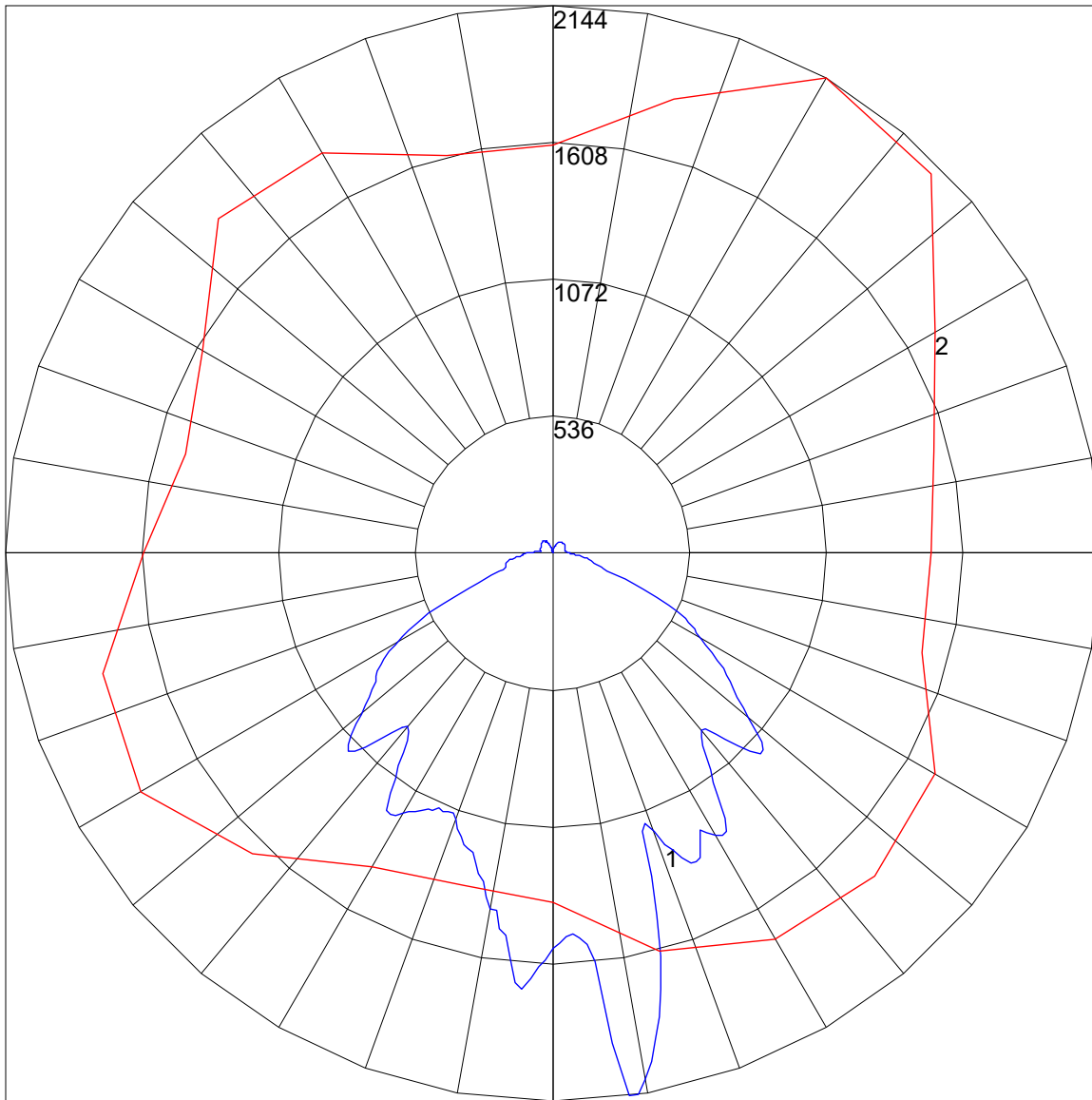
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UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	23.4	24.8	23.8	25.3	25.8	24.9	26.3	25.4	26.8	27.3
	3H	24.6	25.9	25.1	26.4	27.0	25.5	26.8	26.0	27.3	27.8
	4H	24.8	26.1	25.3	26.6	27.1	25.6	26.9	26.1	27.4	27.9
	6H	24.9	26.1	25.5	26.6	27.2	25.8	26.9	26.3	27.4	28.0
	8H	24.9	26.0	25.5	26.6	27.2	25.8	26.9	26.4	27.5	28.1
	12H	25.0	26.0	25.5	26.6	27.2	25.9	27.0	26.5	27.5	28.1
4H	2H	24.1	25.3	24.6	25.8	26.4	25.4	26.6	25.9	27.1	27.7
	3H	25.4	26.4	25.9	27.0	27.6	26.0	27.1	26.6	27.6	28.2
	4H	25.6	26.6	26.2	27.1	27.7	26.2	27.2	26.8	27.7	28.4
	6H	25.8	26.6	26.3	27.2	27.8	26.5	27.3	27.1	27.9	28.6
	8H	25.8	26.6	26.4	27.2	27.8	26.6	27.4	27.2	28.0	28.6
	12H	25.9	26.6	26.5	27.2	27.8	26.7	27.4	27.3	28.1	28.7
8H	4H	25.6	26.4	26.2	27.0	27.6	26.3	27.1	26.9	27.7	28.3
	6H	25.9	26.5	26.5	27.1	27.8	26.7	27.3	27.3	28.0	28.6
	8H	26.0	26.6	26.6	27.2	27.9	26.9	27.5	27.5	28.1	28.8
	12H	26.1	26.6	26.7	27.2	27.9	27.1	27.6	27.7	28.2	28.9
12H	4H	25.6	26.3	26.2	26.9	27.6	26.3	27.0	26.9	27.6	28.3
	6H	25.9	26.5	26.5	27.1	27.8	26.7	27.3	27.4	27.9	28.6
	8H	26.0	26.5	26.6	27.1	27.9	26.9	27.4	27.6	28.1	28.8

Maximum UGR = 28.9

POLAR GRAPH



Maximum Candela = 2143.918 Located At Horizontal Angle = 60, Vertical Angle = 9
1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (9) (Through Max. Cd.)