



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48HFA35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]1410211019-002-001-P1
[TESTLAB]Intertek
[ISSUE DATE]10/27/2014
[MANUFACTURER]LAMAR LIGHTING CO., INC.
[LUMEN CATEGORY]MCNL48HFA35
[MORE]HIGH POWER SETTING (OUTPUT 1141MA)
[LUMINAIRE]SURFACE MOUNT
[LAMP]LED
[LAMP CATEGORY]NA. LUMINAIRE OUTPUT = 4323 LMS
[OTHER]120.03 VAC, 417.8 mA, 50 W, 0.9918 PF

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4323
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	2.04
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.44
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.54 ft
Luminous Height	0.06 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10196	7172	3440
55	12258	7785	2741
65	15542	8650	2038
75	22525	10430	1425
85	52907	17038	548

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	1029.658	1029.367	1029.076	1028.786	1028.499	1028.214	1027.932	1025.891	1025.083	1024.211
5.0	1066.456	1065.907	1065.360	1064.815	1064.274	1061.809	1060.433	1058.914	1057.255	1055.459
7.5	1105.173	1104.367	1103.564	1102.766	1099.920	1097.985	1095.809	1093.398	1090.757	1087.893
10.0	1141.274	1140.283	1139.296	1136.783	1134.617	1132.120	1129.300	1126.161	1122.711	1118.959
12.5	1178.072	1176.847	1175.628	1172.352	1169.550	1166.251	1162.652	1158.580	1154.108	1149.254
15.0	1213.126	1211.673	1210.227	1206.260	1202.878	1198.967	1194.542	1189.619	1184.219	1178.362
17.5	1245.042	1243.441	1240.552	1237.346	1233.509	1229.052	1223.991	1218.348	1212.145	1205.411
20.0	1278.352	1276.457	1272.908	1268.975	1264.264	1258.807	1252.639	1245.799	1238.309	1230.275
22.5	1309.744	1307.477	1303.271	1298.687	1293.199	1286.881	1279.786	1271.972	1263.497	1254.018
25.0	1335.381	1332.800	1328.275	1323.312	1317.461	1310.775	1303.315	1295.147	1285.694	1275.248
27.5	1359.099	1355.924	1350.566	1344.788	1338.122	1330.668	1322.522	1314.089	1304.662	1294.198
30.0	1378.458	1375.325	1369.782	1363.614	1356.249	1347.751	1340.378	1331.828	1322.023	1310.960
32.5	1398.165	1394.196	1387.374	1380.162	1372.212	1366.338	1358.346	1348.725	1338.692	1325.122
35.0	1414.210	1408.616	1401.566	1393.650	1389.477	1383.227	1374.391	1364.036	1351.467	1337.350
37.5	1427.638	1420.597	1412.089	1409.428	1405.657	1398.263	1388.082	1374.634	1361.556	1344.087
40.0	1438.277	1428.356	1425.313	1423.109	1415.482	1405.885	1393.692	1380.565	1365.137	1347.746
42.5	1442.462	1435.808	1434.488	1426.172	1417.275	1407.589	1396.670	1383.815	1367.870	1349.931
45.0	1440.893	1439.345	1435.819	1430.381	1422.351	1412.060	1400.010	1385.936	1368.659	1349.385
47.5	1442.462	1436.873	1432.899	1423.765	1416.958	1407.371	1395.475	1381.407	1364.204	1344.052
50.0	1438.277	1426.475	1426.146	1420.773	1409.962	1397.804	1385.266	1370.316	1352.868	1332.463
52.5	1427.638	1418.466	1412.199	1409.599	1401.775	1388.730	1373.517	1357.856	1337.163	1315.884
55.0	1414.210	1406.220	1396.255	1392.700	1386.951	1374.335	1359.220	1340.930	1319.761	1295.555
57.5	1398.165	1390.761	1381.315	1373.898	1366.402	1355.476	1341.064	1322.339	1300.922	1275.751
60.0	1378.458	1371.968	1363.258	1353.268	1344.922	1333.877	1319.553	1301.056	1278.547	1253.333
62.5	1359.099	1351.928	1342.768	1331.839	1322.300	1310.598	1294.970	1276.650	1253.504	1228.897
65.0	1335.381	1328.788	1320.122	1309.462	1297.882	1284.927	1267.982	1248.465	1225.528	1198.982
67.5	1309.744	1304.284	1294.207	1283.152	1270.216	1255.779	1238.216	1217.686	1194.352	1167.517
70.0	1278.352	1273.149	1263.397	1252.621	1239.783	1224.504	1206.420	1185.365	1161.652	1134.576
72.5	1245.042	1239.967	1230.716	1220.375	1207.914	1192.574	1173.824	1152.040	1127.752	1100.586
75.0	1213.126	1207.705	1198.066	1187.390	1174.667	1159.468	1141.109	1117.634	1092.888	1065.314
77.5	1178.072	1172.550	1162.867	1152.156	1139.414	1124.700	1104.942	1081.950	1056.409	1028.491
80.0	1141.274	1135.657	1126.089	1115.444	1102.709	1087.879	1068.526	1045.236	1019.808	992.352
82.5	1105.173	1099.056	1089.000	1077.949	1064.934	1049.985	1031.749	1008.615	983.580	956.651
85.0	1066.456	1060.184	1050.297	1039.437	1026.680	1012.017	995.307	972.511	947.915	921.272
87.5	1029.658	1022.986	1012.948	1002.038	989.414	975.084	959.070	937.693	912.845	886.341
90.0	993.382	986.508	976.397	965.443	952.832	938.565	922.658	904.110	878.147	851.803
92.5	956.933	949.847	939.674	928.726	916.241	902.235	886.736	868.640	844.305	818.196
95.0	920.309	913.181	903.104	892.318	880.109	866.508	851.557	835.301	811.599	785.545
97.5	883.510	876.515	866.723	856.268	844.475	831.383	817.032	801.468	779.917	753.817
100.0	847.061	840.261	830.764	820.647	809.271	796.681	782.929	768.067	748.751	721.785
102.5	810.262	803.782	794.645	784.843	773.716	761.275	747.536	732.522	715.957	689.260
105.0	773.290	766.809	757.779	748.124	737.217	725.075	711.721	697.179	681.466	657.327
107.5	736.317	729.923	721.016	711.508	700.785	688.875	675.806	661.611	647.816	625.179
110.0	698.298	692.310	683.366	674.041	663.503	651.780	638.903	624.905	609.954	592.444
112.5	658.709	652.723	644.331	635.357	625.210	613.909	601.476	587.937	573.320	557.846
115.0	619.643	613.813	605.715	597.066	587.308	576.460	564.540	551.570	537.574	522.787
117.5	581.450	575.774	567.925	559.563	550.162	539.747	528.347	515.989	502.706	488.663
120.0	543.256	537.854	530.375	522.415	513.476	503.588	492.782	481.091	468.549	455.239
122.5	505.237	500.183	493.139	485.635	477.198	467.855	457.638	446.579	434.710	422.099
125.0	467.392	462.702	456.123	449.104	441.196	432.424	422.816	412.401	401.209	390.072
127.5	430.070	425.729	419.564	412.980	405.542	397.277	388.213	378.381	367.811	356.534
130.0	392.574	388.611	382.916	376.828	369.936	362.269	353.857	344.730	334.921	324.460
132.5	355.427	351.881	346.685	341.117	334.790	327.733	319.976	311.552	302.492	292.829

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135.0	318.454	315.358	310.717	305.719	299.996	293.570	286.461	278.695	270.295	261.286
137.5	282.528	279.777	275.574	271.137	265.803	259.905	253.496	246.175	238.384	230.054
140.0	247.299	244.849	242.401	237.019	232.317	226.997	221.070	214.551	207.452	199.789
142.5	214.163	211.926	209.692	204.848	200.613	195.831	190.515	184.678	178.334	171.495
145.0	183.120	181.112	179.105	174.795	171.034	166.803	162.117	156.992	151.443	145.485
147.5	153.995	152.278	150.563	146.911	143.723	140.143	136.185	131.861	127.187	122.175
150.0	128.010	126.576	125.239	122.104	119.448	116.464	113.162	109.553	105.648	101.457
152.5	105.163	103.962	102.763	100.264	98.073	95.614	92.896	89.925	86.709	83.258
155.0	85.456	84.445	83.435	81.382	79.577	77.560	75.337	72.914	70.299	67.501
157.5	68.365	67.538	66.712	65.058	63.605	61.986	60.209	58.279	56.203	53.988
160.0	53.541	52.905	52.269	50.987	49.862	48.608	47.232	45.737	44.131	42.417
162.5	40.810	40.344	39.878	38.958	38.109	37.183	36.193	35.051	33.850	32.578
165.0	30.520	30.161	29.803	29.091	28.465	27.767	27.000	26.167	25.271	24.313
167.5	21.800	21.547	21.293	21.041	20.383	19.874	19.340	18.761	18.166	17.474
170.0	14.824	14.656	14.488	14.320	13.860	13.532	13.172	12.781	12.359	11.908
172.5	9.069	8.967	8.865	8.764	8.484	8.286	8.068	7.832	7.578	7.307
175.0	4.534	4.488	4.441	4.395	4.350	4.159	4.052	3.935	3.810	3.677
177.5	1.046	1.039	1.032	1.025	1.019	1.012	1.005	0.954	0.935	0.914
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	1023.278	1022.285	1021.235	1020.129	1018.970	1017.760	1016.502	1015.140	1013.852	1012.466
5.0	1053.531	1051.474	1049.293	1046.993	1044.579	1042.056	1039.431	1036.708	1033.895	1030.998
7.5	1084.814	1081.527	1078.040	1074.364	1070.506	1066.477	1062.287	1057.946	1053.466	1048.980
10.0	1114.916	1110.591	1105.997	1101.147	1096.053	1090.731	1084.997	1079.033	1072.886	1066.571
12.5	1144.033	1138.463	1132.562	1126.351	1119.773	1112.894	1105.743	1098.341	1090.710	1082.873
15.0	1172.072	1165.373	1158.152	1150.409	1142.318	1133.908	1125.206	1116.190	1106.738	1097.047
17.5	1198.174	1190.134	1181.523	1172.499	1163.096	1153.733	1142.849	1132.084	1121.068	1109.614
20.0	1221.633	1212.432	1202.721	1192.548	1181.496	1169.474	1157.047	1145.280	1130.633	1116.794
22.5	1243.868	1233.078	1221.597	1209.260	1196.300	1182.819	1168.421	1153.475	1138.221	1122.229
25.0	1264.129	1252.909	1238.807	1224.717	1209.952	1194.230	1178.031	1161.066	1143.500	1126.853
27.5	1282.608	1268.829	1254.345	1238.631	1221.696	1205.730	1185.537	1166.516	1146.668	1126.398
30.0	1297.645	1283.425	1267.247	1249.982	1231.412	1211.563	1190.940	1169.353	1147.338	1124.767
32.5	1311.241	1294.947	1277.625	1258.113	1237.959	1215.825	1193.254	1169.208	1144.977	1119.829
35.0	1320.570	1302.964	1283.067	1262.269	1240.027	1216.475	1191.753	1165.742	1139.383	1111.678
37.5	1326.404	1306.684	1285.312	1263.022	1238.670	1213.482	1186.746	1158.699	1131.643	1100.011
40.0	1329.069	1306.816	1283.796	1259.566	1233.534	1206.540	1177.879	1147.816	1116.921	1084.562
42.5	1329.755	1306.695	1282.293	1256.552	1228.569	1199.325	1168.797	1135.826	1101.729	1066.437
45.0	1328.139	1304.125	1278.348	1251.087	1221.766	1190.560	1158.045	1123.773	1087.444	1050.294
47.5	1321.762	1297.461	1270.102	1241.079	1210.529	1177.717	1143.125	1107.167	1069.363	1030.371
50.0	1309.277	1284.220	1257.835	1226.739	1194.331	1160.408	1124.285	1086.164	1046.999	1006.934
52.5	1292.641	1266.495	1238.108	1207.601	1174.445	1138.564	1100.659	1061.523	1020.755	979.430
55.0	1271.154	1244.826	1216.245	1184.366	1150.303	1114.058	1074.620	1033.575	991.159	948.522
57.5	1248.276	1219.783	1189.919	1157.795	1122.950	1085.019	1045.291	1003.922	960.720	916.645
60.0	1225.452	1194.092	1160.649	1127.504	1091.395	1053.238	1012.979	971.119	928.119	884.128
62.5	1198.829	1167.193	1132.459	1094.195	1057.034	1018.302	978.016	936.413	893.577	849.943
65.0	1169.487	1137.425	1101.725	1063.268	1021.587	981.125	941.222	899.882	857.571	814.459
67.5	1137.914	1105.137	1069.379	1030.654	988.966	945.250	902.786	862.099	820.393	777.910
70.0	1104.875	1071.747	1035.856	996.654	955.488	912.258	867.043	823.300	782.246	740.581
72.5	1070.872	1037.184	1000.695	962.344	923.705	879.243	834.514	787.834	743.373	702.738
75.0	1034.698	1001.586	966.116	928.381	888.466	846.184	803.401	755.920	708.662	664.945
77.5	998.671	968.034	932.263	894.913	855.027	813.211	769.631	724.614	678.387	631.979
80.0	963.202	932.485	898.695	861.246	822.052	781.377	738.011	693.923	649.137	603.661

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82.5	927.865	897.042	864.460	828.598	789.663	748.890	707.472	663.948	620.569	575.309
85.0	892.720	862.413	830.295	796.036	757.439	717.626	676.469	634.227	590.952	546.672
87.5	858.053	827.904	796.084	762.350	725.835	686.499	645.942	604.303	561.569	517.854
90.0	823.650	793.936	762.392	729.040	693.819	655.271	615.312	574.176	531.973	489.363
92.5	790.305	761.003	729.332	696.145	661.163	623.929	584.442	544.134	503.056	461.248
95.0	757.716	728.228	696.963	663.780	628.700	592.176	554.086	514.640	474.361	433.532
97.5	726.000	696.129	664.409	632.349	596.883	561.177	524.001	485.222	446.261	407.947
100.0	693.299	663.415	632.276	599.710	565.723	530.363	493.998	456.618	418.997	381.066
102.5	661.160	631.650	600.719	568.417	534.877	500.271	464.944	429.379	393.219	357.180
105.0	629.344	600.018	569.283	537.406	504.638	471.328	437.293	403.434	369.603	334.758
107.5	597.218	568.098	538.079	507.181	475.489	443.633	411.473	378.813	346.215	313.499
110.0	565.053	537.116	507.645	477.986	447.586	417.178	386.304	355.303	324.190	293.786
112.5	533.448	506.144	478.227	449.918	420.981	391.808	362.329	332.636	303.241	273.803
115.0	502.738	476.634	449.893	422.829	395.193	367.256	339.271	310.987	283.361	255.698
117.5	472.922	447.968	422.360	396.478	370.157	343.521	317.089	290.505	264.240	238.189
120.0	441.234	419.799	395.373	370.697	345.761	320.553	295.487	270.390	245.538	221.141
122.5	408.843	391.902	368.741	345.301	321.682	297.863	274.217	250.719	227.277	204.320
125.0	376.696	363.463	342.132	320.011	297.901	275.626	253.363	231.303	209.254	187.664
127.5	344.784	332.454	315.902	295.879	274.483	253.632	233.178	211.971	191.359	171.102
130.0	313.507	302.045	290.117	270.633	251.129	231.546	211.928	192.556	173.405	155.339
132.5	282.618	271.862	260.564	245.634	227.685	209.209	191.001	173.132	155.529	138.235
135.0	251.726	241.661	231.058	219.943	203.435	186.789	170.173	154.187	138.117	122.759
137.5	221.994	211.857	202.088	191.801	179.571	164.805	150.096	135.796	121.661	108.397
140.0	191.576	183.267	174.535	165.354	155.741	144.015	131.322	118.710	106.507	95.246
142.5	164.177	156.755	149.143	141.179	132.881	124.503	114.115	103.718	92.883	83.125
145.0	139.136	132.643	126.214	119.499	112.513	105.272	98.400	89.327	80.588	71.757
147.5	116.841	111.510	105.822	100.160	94.261	88.155	82.095	76.244	68.753	61.350
150.0	96.991	92.261	87.647	82.951	78.054	72.963	67.689	62.897	58.014	52.193
152.5	79.578	75.678	71.728	67.908	63.933	59.892	55.549	51.414	47.575	43.665
155.0	64.520	61.371	58.058	54.984	51.841	48.597	45.259	41.834	38.695	35.617
157.5	51.641	49.168	46.576	44.001	41.538	39.014	36.389	33.715	31.034	28.517
160.0	40.601	38.690	36.687	34.599	32.639	30.664	28.622	26.514	24.346	22.379
162.5	31.194	29.744	28.218	26.618	24.998	23.475	21.949	20.380	18.772	17.129
165.0	23.297	22.225	21.100	19.925	18.701	17.542	16.369	15.253	14.111	12.943
167.5	16.769	16.026	15.247	14.433	13.586	12.707	11.800	10.990	10.176	9.344
170.0	11.430	10.925	10.394	9.839	9.262	8.685	8.042	7.402	6.859	6.252
172.5	7.020	6.718	6.401	6.070	5.727	5.371	5.004	4.627	4.239	3.843
175.0	3.534	3.384	3.228	3.064	2.895	2.720	2.539	2.354	2.163	1.969
177.5	0.891	0.867	0.842	0.816	0.789	0.761	0.731	0.701	0.670	0.639
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	1011.042	1009.583	1008.094	1006.575	1005.032	1003.467	1001.882	1000.282	998.670	997.048
5.0	1028.023	1024.976	1021.865	1018.697	1015.535	1012.338	1009.108	1005.850	1002.572	999.280
7.5	1044.390	1039.695	1034.904	1030.031	1025.085	1020.032	1015.026	1011.115	1004.976	999.975
10.0	1060.106	1053.500	1046.788	1040.101	1033.354	1026.536	1019.663	1012.752	1005.818	999.037
12.5	1074.611	1066.172	1057.600	1048.917	1040.143	1031.429	1022.527	1013.906	1005.118	997.575
15.0	1087.148	1077.070	1066.633	1056.040	1045.362	1034.625	1023.942	1013.266	1002.600	991.967
17.5	1097.258	1084.726	1072.062	1059.189	1046.202	1033.216	1020.282	1007.519	994.846	982.297
20.0	1102.758	1088.017	1073.097	1058.105	1043.028	1027.978	1013.001	998.277	983.704	969.435
22.5	1105.969	1089.486	1072.218	1054.754	1037.673	1020.556	1003.563	986.897	970.456	954.285
25.0	1107.109	1088.462	1069.131	1049.470	1029.967	1010.807	991.830	973.293	955.034	937.081
27.5	1105.874	1084.938	1063.549	1041.515	1019.760	998.607	979.097	957.397	937.389	917.611

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CANDELA TABULATION - (Cont.)

30.0	1101.964	1078.681	1055.194	1030.699	1006.929	983.860	961.217	939.165	917.399	895.817
32.5	1094.578	1068.814	1042.799	1016.202	990.277	965.106	940.621	916.811	893.311	870.319
35.0	1083.939	1055.702	1027.198	998.487	970.565	943.303	916.904	891.112	865.722	841.219
37.5	1069.750	1039.160	1008.251	977.588	947.701	918.557	890.261	862.538	835.497	809.681
40.0	1051.754	1020.679	985.866	953.385	921.591	890.688	860.598	831.187	802.426	775.588
42.5	1029.795	994.750	960.006	925.702	892.213	859.652	827.714	797.119	767.545	739.287
45.0	1012.316	973.985	935.812	897.810	860.300	825.443	792.343	760.433	729.815	700.872
47.5	991.018	951.446	911.891	872.776	834.170	796.154	758.768	722.011	690.167	660.838
50.0	966.109	925.393	886.661	844.846	805.426	766.617	728.621	691.876	656.258	622.337
52.5	937.823	896.157	854.922	814.240	774.228	735.086	696.847	659.969	624.691	590.486
55.0	906.094	863.941	822.190	781.233	741.052	701.672	663.771	627.151	591.543	557.479
57.5	871.834	828.927	787.175	746.146	705.959	667.160	629.426	593.768	557.659	523.308
60.0	839.486	794.572	749.972	709.360	669.797	631.205	593.802	557.742	522.470	488.060
62.5	805.752	761.249	717.051	673.203	632.153	594.190	557.363	521.463	486.438	452.430
65.0	770.822	727.143	683.628	640.427	597.892	556.247	519.811	484.414	450.000	416.301
67.5	735.085	692.207	649.634	607.595	565.710	526.042	482.932	447.052	413.125	380.051
70.0	698.661	656.958	615.678	574.420	533.267	492.450	452.004	412.101	376.303	343.967
72.5	662.138	621.898	581.524	541.139	500.801	460.612	420.774	381.778	343.450	307.920
75.0	626.038	586.802	547.378	507.742	468.038	428.483	389.627	351.353	313.692	277.138
77.5	590.058	552.183	513.041	474.036	434.979	396.438	358.410	320.904	284.426	249.214
80.0	557.456	516.487	478.369	440.020	401.970	364.394	327.240	290.986	255.898	221.829
82.5	529.610	483.165	443.378	405.994	369.084	332.486	296.608	261.830	227.984	195.359
85.0	501.550	456.283	409.520	372.272	336.432	301.080	266.810	233.379	201.044	171.444
87.5	473.579	429.693	383.754	338.910	304.204	270.643	237.837	205.916	176.602	148.897
90.0	445.966	402.231	358.516	314.699	273.144	241.184	209.969	180.961	153.535	127.538
92.5	418.763	376.447	333.988	291.885	250.703	212.983	184.367	157.393	131.705	107.425
95.0	392.457	351.557	310.505	270.649	231.183	192.715	160.309	135.193	111.539	89.471
97.5	367.283	327.884	289.021	250.888	213.652	177.275	142.634	114.949	93.807	73.530
100.0	343.486	305.811	269.036	232.582	197.209	163.424	130.849	100.786	78.092	59.815
102.5	321.162	285.493	250.396	215.859	182.879	151.039	121.018	92.936	66.495	48.835
105.0	300.271	266.447	233.016	200.815	169.885	140.031	112.334	86.100	62.250	41.205
107.5	280.591	248.666	217.065	187.198	158.014	130.469	105.021	80.372	59.046	39.713
110.0	262.325	232.122	202.791	174.520	147.142	121.751	97.617	75.844	56.129	38.470
112.5	245.191	216.645	189.218	162.531	137.358	113.980	91.365	71.462	53.261	37.682
115.0	228.717	201.913	176.186	151.188	127.803	105.534	85.470	67.024	50.624	36.686
117.5	212.637	187.673	163.359	140.100	118.273	97.903	79.407	62.363	47.978	35.292
120.0	196.969	173.439	150.298	128.984	108.669	90.151	73.073	58.033	44.887	33.537
122.5	181.493	159.473	137.931	117.654	98.989	82.136	66.596	53.267	41.300	31.612
125.0	166.409	145.741	125.822	106.700	89.238	73.823	60.182	48.165	37.883	29.347
127.5	151.547	132.057	113.891	96.221	80.173	65.380	53.705	42.987	34.445	26.808
130.0	136.462	118.788	102.261	86.526	72.019	58.819	47.342	38.494	30.748	24.125
132.5	121.885	106.156	91.168	77.600	64.754	53.370	42.729	33.719	26.751	21.236
135.0	108.008	94.419	81.190	69.427	58.337	48.209	38.985	30.650	23.428	18.118
137.5	95.371	83.657	72.434	61.871	52.506	43.111	35.310	27.944	21.670	15.944
140.0	84.205	73.752	64.097	54.741	46.464	38.710	31.668	25.455	19.717	14.856
142.5	73.678	64.434	56.190	48.308	40.896	34.415	28.210	22.874	17.946	13.727
145.0	63.824	56.063	48.876	42.229	35.906	30.269	25.149	20.518	16.319	12.555
147.5	54.701	48.328	42.096	36.565	31.424	26.434	22.223	18.258	14.590	11.388
150.0	46.406	41.316	36.316	31.416	27.267	23.252	19.607	16.045	12.829	10.050
152.5	39.411	35.056	31.051	27.127	23.356	19.983	16.711	13.658	11.259	8.985
155.0	32.494	29.333	26.093	22.828	19.628	16.644	14.179	11.806	9.725	7.875
157.5	25.990	23.411	20.784	18.513	16.245	13.890	11.667	9.906	8.178	6.540
160.0	20.280	18.359	16.412	14.441	12.718	11.107	9.490	7.862	6.482	5.193
162.5	15.533	14.080	12.673	11.251	9.815	8.446	7.238	6.026	4.812	3.671
165.0	11.753	10.542	9.468	8.407	7.354	6.292	5.223	4.329	3.574	2.824
167.5	8.495	7.631	6.753	5.861	5.169	4.502	3.835	3.168	2.503	1.909

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CANDELA TABULATION - (Cont.)

170.0	5.722	5.185	4.642	4.093	3.540	2.983	2.495	2.142	1.795	1.453
172.5	3.438	3.105	2.812	2.519	2.225	1.932	1.639	1.346	1.054	0.763
175.0	1.771	1.570	1.365	1.157	0.947	0.766	0.693	0.630	0.566	0.502
177.5	0.605	0.572	0.538	0.503	0.468	0.432	0.396	0.360	0.323	0.286
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	995.420	993.789	992.159	990.533	988.913	987.303	986.508	984.112	982.542	980.994
5.0	995.981	992.682	989.390	986.111	982.851	979.621	976.397	973.214	970.077	966.989
7.5	994.972	989.979	985.004	980.059	975.152	970.277	965.443	960.677	955.986	951.380
10.0	992.310	985.607	978.943	972.331	965.834	959.263	952.832	946.502	940.285	934.191
12.5	987.921	979.510	971.163	962.897	954.692	946.566	938.378	930.705	922.998	915.555
15.0	981.744	971.639	961.630	951.998	941.886	932.188	922.658	913.997	904.362	895.497
17.5	970.239	958.408	946.504	935.360	924.160	913.232	904.109	892.527	882.768	873.366
20.0	955.412	941.756	929.240	915.277	902.497	890.794	878.147	866.623	855.509	845.117
22.5	938.520	923.060	907.986	893.300	878.989	865.171	851.803	840.529	826.843	815.254
25.0	919.480	902.279	885.641	869.419	853.647	838.366	823.650	809.762	796.435	783.775
27.5	898.230	879.499	861.329	843.600	826.345	811.420	793.936	778.798	764.377	750.667
30.0	874.824	854.680	835.030	815.752	797.085	779.068	762.392	746.114	730.584	715.887
32.5	848.391	827.286	806.302	785.886	766.175	747.245	729.040	711.621	695.099	679.475
35.0	817.791	795.092	773.085	752.108	732.045	712.689	693.819	675.392	657.903	641.195
37.5	784.766	760.760	737.783	715.950	694.935	674.697	655.271	636.642	618.736	601.328
40.0	749.541	724.495	700.912	678.221	656.428	635.460	615.312	595.930	577.335	560.107
42.5	712.213	686.818	662.430	639.125	616.645	595.006	574.177	554.152	535.557	517.849
45.0	673.520	648.212	622.664	598.721	575.635	553.394	531.973	511.998	492.955	474.960
47.5	633.155	606.894	581.554	557.081	533.477	510.710	489.363	469.026	449.829	431.869
50.0	591.633	564.984	539.204	514.295	490.247	467.561	445.966	425.618	406.605	388.642
52.5	557.389	524.984	495.696	470.451	446.481	423.663	402.231	382.188	364.452	346.311
55.0	524.041	491.232	459.090	427.763	401.984	379.546	358.516	338.641	320.745	304.389
57.5	489.607	456.735	424.623	393.221	363.101	335.463	314.699	295.895	278.780	263.153
60.0	454.593	421.816	389.719	358.930	329.157	300.314	273.144	253.796	237.920	223.702
62.5	419.120	386.489	355.142	324.731	296.947	267.502	241.184	217.635	198.057	185.362
65.0	383.369	351.529	320.597	290.810	262.262	235.488	209.969	187.013	165.581	149.311
67.5	347.878	316.554	286.208	257.565	230.207	205.688	180.961	159.323	139.017	121.208
70.0	312.398	281.865	252.908	225.177	199.636	175.329	153.535	133.094	114.643	98.273
72.5	277.342	248.207	220.224	193.526	169.964	148.074	127.434	108.508	91.612	76.556
75.0	243.272	215.176	188.322	164.712	142.802	122.246	102.705	85.293	69.816	56.938
77.5	215.098	183.005	159.419	137.581	117.104	97.128	79.230	63.343	50.163	40.175
80.0	189.039	159.425	132.276	111.989	91.659	73.331	57.059	43.631	33.749	26.069
82.5	165.662	137.935	112.040	86.102	67.490	50.879	37.264	27.498	20.242	15.247
85.0	143.644	117.589	91.885	67.523	44.690	30.973	21.348	14.522	10.208	9.322
87.5	122.795	97.486	73.509	50.940	30.987	15.230	8.852	5.260	5.610	5.217
90.0	102.705	79.230	57.059	37.264	21.348	8.852	0.349	1.935	2.600	2.570
92.5	84.608	62.926	43.349	27.375	14.489	5.254	1.935	0.001	0.853	1.109
95.0	68.447	49.303	33.226	20.042	10.154	5.595	2.600	0.859	0.004	0.339
97.5	54.571	38.815	25.440	15.044	9.217	5.188	2.570	1.118	0.350	0.005
100.0	44.048	30.590	19.605	12.744	7.737	4.270	2.234	1.041	0.372	0.070
102.5	35.391	24.021	16.094	10.195	5.934	3.334	1.733	0.743	0.208	0.043
105.0	28.061	19.156	12.493	7.527	4.391	2.424	1.113	0.351	0.088	0.000
107.5	22.959	14.543	9.000	5.365	3.057	1.472	0.495	0.134	0.000	0.000
110.0	23.776	11.358	6.203	3.641	1.806	0.625	0.180	0.000	0.000	0.000
112.5	24.404	13.445	5.240	2.096	0.726	0.220	0.000	0.000	0.000	0.000
115.0	24.715	15.356	7.832	2.014	0.249	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	24.857	16.397	9.615	4.966	1.317	0.000	0.000	0.000	0.000	0.000
120.0	24.385	16.726	11.053	6.688	3.493	1.267	0.000	0.000	0.000	0.000
122.5	23.382	16.894	11.786	7.832	4.818	2.623	1.093	0.132	0.000	0.000
125.0	22.165	16.487	11.775	8.194	5.393	3.274	1.795	0.822	0.222	0.000
127.5	20.650	15.440	11.299	8.000	5.354	3.419	1.977	1.035	0.437	0.109
130.0	18.635	14.022	10.361	7.355	4.946	3.120	1.845	0.947	0.333	0.110
132.5	16.367	12.383	8.982	6.308	4.181	2.614	1.453	0.571	0.227	0.040
135.0	13.966	10.389	7.428	5.108	3.292	1.919	0.791	0.353	0.067	0.017
137.5	11.411	8.226	5.847	3.825	2.316	1.009	0.472	0.094	0.030	0.000
140.0	10.502	6.856	4.250	2.565	1.165	0.567	0.120	0.043	0.000	0.000
142.5	9.985	6.718	3.993	1.740	0.620	0.142	0.055	0.000	0.000	0.000
145.0	9.319	6.422	4.129	2.474	1.239	0.546	0.088	0.000	0.000	0.000
147.5	8.363	6.194	4.308	2.916	1.926	1.169	0.660	0.311	0.124	0.026
150.0	7.843	5.794	4.369	3.144	2.169	1.416	0.824	0.460	0.172	0.077
152.5	7.035	5.514	4.115	3.019	2.085	1.307	0.799	0.349	0.178	0.048
155.0	6.267	4.808	3.647	2.565	1.715	1.098	0.527	0.286	0.110	0.000
157.5	5.210	3.981	2.812	2.002	1.311	0.654	0.388	0.179	0.000	0.000
160.0	3.947	2.877	2.120	1.388	0.720	0.468	0.236	0.012	0.000	0.000
162.5	2.858	2.058	1.282	0.754	0.508	0.267	0.031	0.000	0.000	0.000
165.0	2.081	1.397	1.034	0.711	0.404	0.111	0.062	0.037	0.017	0.000
167.5	1.544	1.190	0.846	0.513	0.243	0.183	0.127	0.075	0.025	0.000
170.0	1.116	0.784	0.456	0.353	0.279	0.207	0.137	0.068	0.001	0.000
172.5	0.558	0.482	0.404	0.329	0.255	0.181	0.108	0.036	0.000	0.000
175.0	0.439	0.376	0.313	0.250	0.188	0.125	0.063	0.000	0.000	0.000
177.5	0.248	0.210	0.172	0.134	0.096	0.058	0.019	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	979.471	977.977	976.513	975.082	973.688	972.332	971.018	969.747	968.522	967.346
5.0	963.958	960.989	958.087	955.257	952.505	949.834	947.251	944.759	942.369	940.077
7.5	946.866	942.453	938.148	933.979	929.943	926.034	922.258	918.620	915.127	911.783
10.0	928.884	922.492	916.896	911.456	906.100	901.082	896.162	891.473	886.995	882.711
12.5	908.311	901.250	894.382	887.716	881.357	875.128	869.340	863.668	858.229	853.731
15.0	887.058	878.740	870.841	863.193	855.789	848.639	841.817	835.348	829.148	823.224
17.5	864.503	855.469	846.494	837.793	829.546	821.623	813.991	806.659	799.713	793.105
20.0	835.187	825.620	816.884	808.621	800.870	793.674	785.797	777.812	770.149	762.543
22.5	804.230	793.912	784.160	775.019	766.637	758.865	751.711	744.578	737.944	730.255
25.0	771.805	760.468	749.930	740.101	730.954	721.891	713.419	705.619	698.669	692.444
27.5	737.692	725.572	714.194	703.197	692.683	682.896	674.083	666.044	658.733	652.119
30.0	702.056	690.693	676.249	664.285	653.315	643.269	634.001	625.484	617.753	611.031
32.5	664.560	650.255	636.827	624.603	613.200	602.606	592.841	583.912	575.718	568.303
35.0	625.269	610.462	596.774	583.946	571.979	560.898	550.754	541.426	532.564	525.699
37.5	585.080	569.880	555.579	542.192	529.860	518.510	508.127	498.998	490.616	483.448
40.0	543.780	528.151	513.297	499.814	487.217	476.126	465.944	456.967	449.020	441.911
42.5	501.092	485.272	470.731	457.173	445.172	434.100	424.529	415.645	408.304	401.605
45.0	458.068	442.357	428.105	415.144	403.656	393.152	383.942	375.766	368.523	362.241
47.5	415.013	399.928	385.868	373.821	363.796	353.260	345.562	336.686	329.618	323.966
50.0	372.681	357.839	344.874	333.179	322.969	313.893	305.799	298.663	292.024	287.067
52.5	330.715	316.818	304.622	293.592	284.176	275.949	268.454	261.955	256.747	252.415
55.0	289.599	276.901	264.780	255.405	246.593	239.134	232.785	227.297	222.642	218.305
57.5	249.954	237.932	227.513	218.691	210.820	204.674	198.965	194.401	190.110	186.528
60.0	211.326	200.423	191.640	183.740	177.531	172.057	167.334	163.447	159.759	156.510
62.5	174.046	165.342	157.609	151.258	146.117	141.739	138.017	134.660	131.690	128.717

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CANDELA TABULATION - (Cont.)

65.0	139.693	132.159	125.752	121.025	116.825	113.677	111.019	108.328	106.179	103.173
67.5	107.280	101.732	96.661	93.104	90.281	88.509	86.578	85.077	83.360	81.358
70.0	83.640	72.902	70.069	68.418	66.948	66.066	65.206	64.568	63.327	62.274
72.5	64.035	53.851	46.237	46.161	46.434	46.474	46.947	46.986	46.708	46.212
75.0	46.688	38.354	31.664	27.498	28.809	30.281	31.725	32.496	33.189	33.102
77.5	32.077	25.885	21.385	16.857	14.366	17.321	19.526	21.263	22.418	22.955
80.0	20.445	17.114	13.621	10.056	7.571	7.269	10.072	12.597	14.167	15.323
82.5	13.129	10.662	7.984	6.007	4.189	2.556	3.437	6.232	8.273	9.788
85.0	7.886	6.098	4.636	3.279	2.002	0.980	0.362	1.912	4.297	5.773
87.5	4.308	3.396	2.473	1.530	0.702	0.256	0.000	0.000	1.541	2.953
90.0	2.234	1.733	1.113	0.492	0.180	0.000	0.000	0.000	0.000	1.093
92.5	1.028	0.729	0.332	0.123	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.360	0.193	0.078	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.063	0.038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.016	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	966.219	965.145	964.124	963.159	962.099	961.404	960.616	959.890	959.227	958.628
5.0	937.888	935.804	933.829	931.800	930.216	928.584	927.071	925.681	924.414	923.273
7.5	908.593	905.562	903.857	900.021	897.508	895.165	892.996	891.004	889.192	887.561
10.0	878.626	874.747	871.078	867.624	864.388	861.423	858.692	856.186	853.909	851.863

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CANDELA TABULATION - (Cont.)

12.5	848.195	843.593	839.243	835.149	831.317	827.751	824.938	821.444	818.703	816.237
15.0	817.582	812.248	807.240	802.522	798.098	793.975	790.158	786.650	783.312	780.302
17.5	786.803	780.814	775.144	769.477	764.166	759.235	754.691	750.537	746.777	743.457
20.0	755.116	747.995	741.285	734.991	729.206	723.850	718.914	714.401	710.317	707.886
22.5	722.066	714.448	707.265	700.524	694.233	688.316	682.849	677.839	673.292	669.213
25.0	686.889	680.773	672.961	665.614	658.740	652.278	646.089	640.403	635.227	630.569
27.5	645.669	641.083	636.518	629.953	622.265	615.097	608.472	602.401	596.886	591.933
30.0	604.435	598.794	593.898	589.770	585.460	577.851	571.276	564.583	558.919	553.841
32.5	561.736	556.044	551.068	546.264	543.618	541.019	533.827	527.382	521.631	516.403
35.0	519.063	513.470	508.713	504.651	501.556	499.270	497.648	492.192	485.153	479.855
37.5	477.117	471.555	467.173	463.451	460.460	458.431	457.057	455.581	449.453	443.926
40.0	436.053	430.850	426.588	423.152	420.371	418.448	416.580	416.576	414.301	408.552
42.5	395.925	391.061	386.905	383.758	381.185	379.305	378.185	377.597	377.982	373.710
45.0	356.702	352.282	348.405	345.441	343.107	341.262	340.129	339.471	339.303	339.261
47.5	318.841	314.765	311.311	308.407	306.180	304.348	303.190	302.614	302.469	302.901
50.0	282.615	278.705	275.515	272.647	270.622	268.964	267.750	267.154	266.945	267.167
52.5	247.826	244.089	241.225	238.659	236.598	234.509	233.685	232.896	232.377	232.164
55.0	214.607	211.335	208.506	206.092	203.981	202.375	200.910	199.618	198.988	198.343
57.5	183.025	180.026	177.249	175.093	172.955	171.290	169.670	168.296	167.288	166.346
60.0	152.994	150.438	147.922	145.883	143.817	142.066	140.469	138.871	138.025	137.152
62.5	125.787	122.837	120.681	118.723	116.932	115.182	113.936	112.489	111.897	111.348
65.0	101.152	98.177	95.793	93.991	92.755	91.153	90.582	89.692	89.261	89.090
67.5	79.349	76.716	74.193	72.212	71.689	70.891	70.627	70.334	69.991	69.936
70.0	60.577	58.618	56.417	54.061	53.905	53.921	53.826	53.792	53.448	53.585
72.5	44.992	43.785	42.007	40.507	39.175	39.577	39.586	39.908	39.758	39.951
75.0	32.617	31.992	30.754	29.610	27.694	27.731	28.019	28.508	28.612	28.804
77.5	23.164	22.827	22.093	20.992	19.581	18.175	18.768	19.266	19.597	19.862
80.0	15.906	15.770	15.343	14.380	13.267	11.822	11.302	11.905	12.558	12.881
82.5	10.453	10.550	10.206	9.369	8.400	7.041	5.941	6.365	7.038	7.280
85.0	6.483	6.687	6.361	5.684	4.861	3.871	2.861	2.159	3.161	3.790
87.5	3.692	3.883	3.592	3.158	2.450	1.622	0.905	0.413	1.010	1.786
90.0	1.795	1.977	1.845	1.453	0.791	0.472	0.120	0.055	0.088	0.660
92.5	0.637	0.836	0.736	0.439	0.198	0.063	0.005	0.000	0.000	0.138
95.0	0.047	0.230	0.191	0.054	0.028	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.018	0.018	0.008	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	958.093	957.625	957.223	956.888	956.621	956.421	956.290	956.227	956.233	956.306
5.0	922.260	921.375	920.620	919.996	919.503	919.142	918.913	918.817	918.853	919.021
7.5	886.115	884.854	883.781	882.897	882.202	881.698	881.269	881.263	881.333	881.593
10.0	850.052	848.476	847.139	846.042	845.186	844.571	844.200	844.071	844.185	844.542
12.5	814.031	812.142	810.519	809.183	808.134	807.376	806.910	806.735	806.854	807.266
15.0	777.641	775.333	773.378	771.777	770.532	769.642	769.108	768.928	769.102	769.627
17.5	740.374	737.995	735.856	734.113	732.768	731.822	731.275	731.126	731.375	732.021
20.0	703.343	700.475	698.046	696.059	694.454	693.421	692.773	692.573	692.822	693.521
22.5	665.480	662.150	659.315	656.977	655.140	653.807	652.980	652.662	652.852	653.553
25.0	627.050	622.871	619.841	617.354	615.412	614.017	613.172	612.877	613.132	613.938
27.5	587.550	583.834	580.736	578.209	576.256	574.880	574.082	573.864	574.225	575.166
30.0	549.357	545.508	542.339	539.747	537.739	536.322	535.499	535.276	535.656	536.643
32.5	511.862	507.864	504.581	501.891	499.792	498.295	497.406	497.134	497.486	498.467
35.0	475.132	470.996	467.504	464.638	462.381	460.742	459.734	459.364	459.643	460.578
37.5	438.978	434.624	430.912	427.879	425.473	423.704	422.585	422.127	422.340	423.233
40.0	403.393	398.707	395.561	391.644	389.014	387.034	385.720	385.088	385.149	385.917
42.5	368.276	363.445	359.235	355.798	353.010	350.866	349.385	348.587	348.489	349.108
45.0	333.905	328.922	324.356	320.852	317.831	315.443	313.714	312.667	312.326	312.713
47.5	300.555	295.177	290.708	286.689	283.344	280.672	278.695	277.434	276.908	277.137
50.0	267.834	262.312	257.317	252.986	249.392	246.491	244.304	242.854	242.159	242.239
52.5	232.412	229.707	224.438	220.341	216.205	213.278	211.085	209.578	208.964	209.066
55.0	198.176	197.937	192.633	188.024	184.577	181.853	179.819	178.496	177.900	178.051
57.5	165.874	165.967	162.856	158.529	155.318	152.815	151.000	149.770	149.198	149.309
60.0	136.543	136.752	135.833	131.890	128.917	126.762	125.130	124.054	123.561	123.683
62.5	110.853	111.118	111.506	108.453	105.698	103.764	102.308	101.361	100.948	101.096
65.0	88.742	88.932	89.223	87.711	85.178	83.528	82.311	81.554	81.279	81.510
67.5	69.647	69.686	69.927	69.554	67.780	66.017	65.076	64.447	64.332	64.639
70.0	53.417	53.348	53.617	53.798	52.165	51.208	50.517	50.114	50.031	50.301
72.5	39.943	39.846	40.220	40.506	39.803	38.954	38.379	38.027	37.933	38.131
75.0	28.994	29.003	29.402	29.702	29.558	28.709	28.165	27.853	27.794	28.011
77.5	20.253	20.365	20.566	20.654	20.612	19.965	19.629	19.448	19.449	19.658
80.0	13.200	13.201	13.345	13.476	13.397	13.056	12.858	12.769	12.812	13.014
82.5	7.839	8.054	8.104	8.204	8.016	7.698	7.544	7.466	7.463	7.636
85.0	4.322	4.588	4.533	4.370	3.962	3.450	3.472	3.489	3.528	3.620
87.5	2.161	2.232	1.988	1.750	1.367	0.849	0.974	1.066	1.060	1.009
90.0	0.824	0.799	0.527	0.388	0.236	0.031	0.062	0.125	0.137	0.108
92.5	0.170	0.157	0.056	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.004	0.000	0.049	0.043
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.110	0.167	0.174
135.0	0.000	0.000	0.000	0.000	0.000	0.008	0.101	0.156	0.174	0.174
137.5	0.000	0.000	0.000	0.000	0.000	0.002	0.021	0.079	0.167	0.128
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.024	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	956.448	956.657	956.933	956.657	956.448	956.306	956.233	956.227	956.290	956.421
5.0	919.320	919.750	920.309	919.750	919.320	919.021	918.853	918.817	918.913	919.142
7.5	882.043	882.682	883.510	882.682	882.043	881.593	881.333	881.263	881.385	881.698
10.0	845.141	845.981	847.061	845.981	845.141	844.542	844.185	844.071	844.200	844.571
12.5	807.972	808.971	810.262	808.971	807.972	807.266	806.985	806.735	806.910	807.376
15.0	770.502	771.724	773.290	771.724	770.502	769.627	769.102	768.928	769.108	769.642
17.5	733.061	734.494	736.317	734.494	733.061	732.113	731.375	731.126	731.406	731.822
20.0	694.667	696.260	698.298	696.260	694.667	693.521	692.822	692.573	692.773	693.421
22.5	654.763	656.482	658.709	656.482	654.763	653.553	652.852	652.662	652.980	653.807
25.0	615.293	617.195	619.643	617.195	615.293	613.938	613.132	612.877	613.172	614.017
27.5	576.488	578.781	581.450	578.781	576.685	575.166	574.225	573.864	574.082	574.880
30.0	538.238	540.442	543.256	540.442	538.447	536.643	535.656	535.276	535.499	536.322
32.5	500.083	502.339	505.237	502.339	500.083	498.467	497.486	497.134	497.406	498.295
35.0	462.178	464.447	467.392	464.447	462.178	460.578	459.643	459.364	459.734	460.742
37.5	424.814	427.091	430.070	427.091	424.814	423.233	422.340	422.127	422.585	423.704
40.0	387.405	389.620	392.574	389.620	387.405	385.917	385.149	385.088	385.720	387.034
42.5	350.461	352.563	355.427	352.563	350.461	349.234	348.489	348.587	349.560	350.866
45.0	313.851	315.758	318.454	315.758	313.851	312.713	312.326	312.667	313.714	315.443

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CANDELA TABULATION - (Cont.)

47.5	278.140	279.932	282.528	279.932	278.140	277.137	276.908	277.434	278.695	280.672
50.0	243.113	244.794	247.299	244.794	243.113	242.240	242.159	242.854	244.304	246.491
52.5	209.960	211.656	214.163	211.656	209.960	209.066	208.964	209.641	211.085	213.278
55.0	178.962	180.648	183.120	180.648	178.962	178.051	177.900	178.496	179.819	181.853
57.5	150.130	151.685	153.995	151.685	150.130	149.309	149.198	149.770	151.000	152.859
60.0	124.447	125.881	128.010	125.881	124.447	123.683	123.561	124.054	125.130	126.762
62.5	101.832	103.181	105.163	103.181	101.832	101.096	100.948	101.361	102.308	103.764
65.0	82.269	83.498	85.456	83.578	82.269	81.510	81.279	81.554	82.311	83.528
67.5	65.395	66.629	68.365	66.629	65.400	64.654	64.368	64.518	65.076	66.017
70.0	50.955	52.025	53.541	52.087	50.955	50.301	50.031	50.114	50.517	51.208
72.5	38.654	39.537	40.810	39.537	38.654	38.131	37.933	38.027	38.379	38.954
75.0	28.524	29.354	30.520	29.354	28.524	28.011	27.794	27.853	28.165	28.709
77.5	20.103	20.808	21.800	20.808	20.103	19.658	19.449	19.448	19.629	19.965
80.0	13.399	13.995	14.824	13.995	13.399	13.014	12.812	12.769	12.858	13.056
82.5	7.932	8.401	9.069	8.401	7.932	7.636	7.489	7.466	7.544	7.698
85.0	3.797	4.090	4.534	4.090	3.797	3.620	3.528	3.489	3.472	3.450
87.5	0.957	0.954	1.046	0.954	0.957	1.009	1.060	1.066	0.983	0.849
90.0	0.063	0.019	0.000	0.019	0.063	0.108	0.137	0.127	0.062	0.031
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.043	0.049	0.000	0.004	0.000
132.5	0.093	0.000	0.000	0.000	0.093	0.174	0.167	0.110	0.064	0.000
135.0	0.174	0.123	0.000	0.123	0.174	0.174	0.174	0.156	0.101	0.008
137.5	0.057	0.000	0.000	0.000	0.057	0.128	0.167	0.079	0.021	0.002
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.024	0.006	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	956.621	956.888	957.223	957.625	958.093	958.628	959.227	959.890	960.616	961.404
5.0	919.503	920.014	920.620	921.375	922.260	923.273	924.414	925.681	927.071	928.584
7.5	882.202	882.897	883.781	884.854	886.115	887.561	889.192	891.004	892.996	895.165
10.0	845.186	846.042	847.139	848.476	850.052	851.863	853.909	856.378	858.691	861.423
12.5	808.295	809.183	810.519	812.142	814.049	816.237	818.703	821.444	824.938	827.751
15.0	770.532	771.777	773.378	775.333	777.641	780.302	783.312	786.650	790.158	793.975
17.5	732.768	734.178	735.856	737.995	740.530	743.457	746.777	750.537	754.691	759.235
20.0	694.517	696.059	698.046	700.475	703.343	707.886	710.317	714.401	718.914	723.850
22.5	655.140	656.977	659.315	662.150	665.480	669.213	673.292	677.897	682.849	688.316
25.0	615.412	617.361	619.841	622.871	627.050	630.569	635.227	640.403	646.089	652.278
27.5	576.256	578.209	580.736	583.834	587.550	591.933	596.886	602.636	608.472	615.097
30.0	537.739	539.747	542.339	545.508	549.357	553.841	558.919	564.583	571.285	577.851
32.5	499.792	501.891	504.581	507.864	511.862	516.454	521.631	527.426	533.827	541.026
35.0	462.381	464.638	467.504	470.996	475.132	479.855	485.153	492.192	497.674	499.270
37.5	425.473	427.879	430.912	434.624	438.978	443.926	449.453	455.581	457.058	459.041
40.0	389.014	391.644	395.561	398.840	403.393	408.552	414.301	416.576	417.205	418.448
42.5	353.010	355.865	359.235	363.445	368.276	373.710	377.982	377.597	378.185	379.879
45.0	317.831	320.852	324.535	328.922	333.905	339.461	339.303	339.472	340.129	341.262
47.5	283.344	286.689	290.708	295.348	300.555	302.901	302.774	302.614	303.190	304.464
50.0	249.392	252.986	257.317	262.312	267.963	267.167	266.945	267.154	267.751	268.964
52.5	216.205	220.341	224.438	229.707	232.412	232.164	232.377	232.896	233.685	234.992
55.0	184.577	188.024	192.633	197.937	198.176	198.343	198.988	199.823	200.910	202.375
57.5	155.318	158.529	162.856	165.967	165.874	166.346	167.288	168.296	169.670	171.290
60.0	128.917	131.890	135.833	136.752	136.543	137.151	138.025	138.871	140.469	142.066
62.5	105.698	108.453	111.506	111.118	110.853	111.348	111.897	112.489	113.936	115.182
65.0	85.178	87.711	89.224	88.932	88.742	89.090	89.261	89.692	90.582	91.153
67.5	67.780	69.554	69.927	69.686	69.647	69.936	69.991	70.334	70.627	70.891
70.0	52.165	53.799	53.617	53.474	53.417	53.585	53.448	53.792	53.826	53.921
72.5	39.803	40.506	40.220	39.846	39.943	39.951	39.758	39.908	39.710	39.577
75.0	29.558	29.702	29.402	29.003	28.994	28.804	28.612	28.508	28.020	27.731
77.5	20.612	20.654	20.566	20.365	20.253	19.862	19.597	19.266	18.769	18.175
80.0	13.397	13.476	13.345	13.201	13.200	12.881	12.558	11.905	11.302	11.822
82.5	8.016	8.204	8.139	8.054	7.839	7.280	7.038	6.365	5.941	7.041
85.0	3.962	4.370	4.533	4.588	4.322	3.790	3.161	2.159	2.861	3.871
87.5	1.367	1.750	1.988	2.244	2.161	1.786	1.010	0.413	0.905	1.622
90.0	0.236	0.388	0.527	0.799	0.824	0.660	0.088	0.055	0.120	0.472
92.5	0.000	0.000	0.056	0.157	0.170	0.138	0.000	0.000	0.005	0.063
95.0	0.000	0.000	0.000	0.000	0.013	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	962.252	963.225	964.124	965.145	966.219	967.346	968.522	969.747	971.018	972.332
5.0	930.216	931.965	933.829	935.804	937.888	940.077	942.369	944.759	947.251	949.834
7.5	897.508	900.021	903.876	905.562	908.593	911.783	915.127	918.620	922.258	926.034
10.0	864.388	867.624	871.078	874.747	878.627	882.711	886.995	891.473	896.162	901.082
12.5	831.317	835.149	839.243	843.593	848.195	853.731	858.229	863.668	869.340	875.239
15.0	798.098	802.522	807.240	812.248	817.716	823.224	829.148	835.348	841.817	848.639
17.5	764.166	769.477	775.144	780.814	786.803	793.105	799.713	806.659	813.991	821.623
20.0	729.206	734.991	741.285	747.995	755.116	762.640	770.149	777.812	785.797	793.674
22.5	694.233	700.524	707.265	714.448	722.066	730.255	737.944	744.578	751.711	759.072
25.0	658.740	665.614	672.961	680.773	686.889	692.444	698.669	705.619	713.419	721.891
27.5	622.265	629.953	636.518	641.083	646.232	652.119	658.733	666.044	674.084	682.896
30.0	585.460	589.770	593.898	598.794	604.435	611.031	617.753	625.484	634.002	643.269
32.5	543.618	546.872	551.068	556.044	561.736	568.303	575.718	583.912	592.841	602.606
35.0	502.198	504.650	508.713	513.470	519.459	525.699	533.071	541.426	550.754	560.898
37.5	460.460	463.451	467.173	471.555	477.117	483.448	490.616	498.998	508.127	518.510
40.0	420.371	423.152	426.588	430.850	436.053	441.911	449.020	456.967	465.944	476.126
42.5	381.185	383.758	386.905	391.061	395.925	401.605	408.868	415.644	424.529	434.100
45.0	343.107	345.441	348.405	352.283	356.702	362.241	368.523	375.766	383.942	393.152
47.5	306.180	308.407	311.311	314.765	318.842	323.966	329.618	336.686	345.562	353.260
50.0	270.622	272.647	275.515	278.705	282.615	287.067	292.382	298.663	305.799	313.893
52.5	236.598	238.659	241.432	244.089	247.826	252.836	256.747	261.955	268.454	275.950
55.0	203.981	206.092	208.506	211.335	214.607	218.305	222.642	227.297	232.785	239.134
57.5	172.955	175.093	177.249	180.026	183.025	186.528	190.111	194.401	198.965	204.673
60.0	143.818	145.883	147.922	150.438	152.994	156.510	159.759	163.447	167.334	172.057
62.5	116.932	118.723	120.681	122.837	125.787	128.717	131.690	134.660	138.017	141.739
65.0	92.755	93.991	95.793	98.177	101.152	103.547	106.179	108.328	111.019	113.677
67.5	71.689	72.212	74.193	76.716	79.349	81.358	83.360	85.441	86.578	88.509
70.0	53.905	54.262	56.417	58.618	60.577	62.274	63.327	64.568	65.206	66.066
72.5	39.175	40.507	42.007	43.785	44.995	46.212	46.708	46.986	47.253	46.474
75.0	27.694	29.610	30.846	31.992	32.617	33.102	33.189	32.496	31.725	30.281
77.5	19.581	20.992	22.093	22.827	23.164	23.021	22.418	21.263	19.526	17.321

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CANDELA TABULATION - (Cont.)

80.0	13.267	14.380	15.343	15.793	15.906	15.323	14.167	12.597	10.205	7.269
82.5	8.406	9.369	10.206	10.550	10.453	9.788	8.273	6.232	3.437	2.556
85.0	4.861	5.684	6.361	6.687	6.483	5.773	4.297	1.912	0.362	0.980
87.5	2.450	3.158	3.592	3.883	3.692	2.953	1.541	0.000	0.000	0.256
90.0	0.791	1.453	1.845	1.977	1.795	1.093	0.000	0.000	0.000	0.000
92.5	0.198	0.439	0.736	0.836	0.637	0.000	0.000	0.000	0.000	0.000
95.0	0.028	0.054	0.191	0.238	0.047	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.008	0.018	0.018	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles	Horizontal Angles									
	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	973.688	975.082	976.513	977.977	979.471	980.994	982.542	984.112	986.508	987.303
5.0	952.505	955.257	958.087	960.989	963.958	966.989	970.077	973.214	976.397	979.621
7.5	929.943	933.979	938.148	942.500	946.866	951.380	955.986	960.677	965.443	970.277
10.0	906.182	911.456	916.896	922.492	928.884	934.191	940.285	946.502	952.832	959.263
12.5	881.357	887.716	894.382	901.250	908.311	915.555	922.998	930.705	938.565	946.668
15.0	855.789	863.193	870.841	878.740	887.058	895.602	904.362	913.997	922.658	932.188
17.5	829.546	837.793	846.494	855.469	864.503	873.366	882.768	892.527	904.109	913.232
20.0	800.870	808.621	816.884	825.720	835.187	845.117	855.509	866.623	878.147	891.126
22.5	766.637	775.019	784.160	793.911	804.230	815.254	826.843	840.529	851.803	865.171
25.0	730.954	740.101	749.930	760.468	771.805	783.775	796.435	809.762	823.650	838.366

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CANDELA TABULATION - (Cont.)

27.5	692.683	703.197	714.194	725.572	737.692	750.667	764.618	778.798	793.936	811.420
30.0	653.315	664.285	676.249	690.693	702.056	715.887	730.584	746.114	762.392	779.401
32.5	613.200	624.602	636.827	650.255	664.560	679.475	695.099	711.621	729.040	747.245
35.0	571.979	583.946	596.774	610.548	625.269	641.195	657.903	675.392	693.819	712.689
37.5	529.860	542.575	555.579	569.880	585.080	601.327	618.736	636.642	655.271	674.697
40.0	487.217	499.814	513.297	528.151	543.780	560.107	577.335	595.930	615.312	635.460
42.5	445.172	457.173	470.731	485.272	501.092	517.849	536.110	554.152	574.177	595.006
45.0	403.656	415.144	428.105	442.357	458.068	474.960	492.955	511.998	531.973	553.394
47.5	363.796	373.821	385.868	399.928	415.013	431.869	449.829	469.026	489.363	510.710
50.0	322.969	333.179	344.874	357.839	372.681	388.642	406.605	425.618	445.966	467.561
52.5	284.176	293.592	304.622	316.818	330.715	346.311	364.452	382.188	402.230	423.663
55.0	246.593	255.405	265.275	276.902	289.599	304.389	320.745	338.641	358.516	380.033
57.5	210.820	218.691	227.513	237.932	249.954	263.152	278.780	295.895	314.699	335.463
60.0	177.531	183.740	191.640	200.423	211.326	223.702	237.920	253.796	273.144	300.314
62.5	146.117	151.258	157.609	165.342	174.046	185.998	198.058	217.635	241.184	267.502
65.0	116.825	121.025	125.752	132.159	139.693	149.311	165.581	187.012	209.969	235.488
67.5	90.281	93.104	96.661	101.732	107.281	121.208	139.017	159.323	180.961	205.688
70.0	66.948	68.418	70.069	72.902	83.640	98.273	114.643	133.094	153.535	175.329
72.5	46.434	46.161	46.237	53.851	64.035	76.556	91.612	108.507	127.538	148.074
75.0	28.809	27.498	31.664	38.354	46.849	56.938	69.816	85.401	102.705	122.246
77.5	14.366	16.857	21.385	25.885	32.077	40.175	50.163	63.343	79.230	97.127
80.0	7.571	10.056	13.621	17.114	20.445	26.069	33.749	43.631	57.059	73.331
82.5	4.189	6.007	7.984	10.662	13.129	15.247	20.242	27.498	37.264	50.879
85.0	2.002	3.279	4.636	6.140	7.886	9.322	10.208	14.522	21.348	30.973
87.5	0.702	1.530	2.476	3.396	4.308	5.217	5.610	5.260	8.852	15.233
90.0	0.180	0.495	1.113	1.733	2.234	2.570	2.600	1.935	0.349	8.852
92.5	0.000	0.123	0.332	0.729	1.028	1.109	0.853	0.000	1.935	5.254
95.0	0.000	0.000	0.078	0.193	0.360	0.339	0.000	0.859	2.600	5.595
97.5	0.000	0.000	0.000	0.038	0.063	0.000	0.350	1.118	2.570	5.188
100.0	0.000	0.000	0.000	0.000	0.001	0.070	0.372	1.041	2.234	4.270
102.5	0.000	0.000	0.000	0.000	0.000	0.043	0.208	0.743	1.733	3.334
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.088	0.351	1.113	2.411
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.134	0.492	1.472
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.180	0.625
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.220
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.267
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.132	1.093	2.623
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.222	0.797	1.795	3.274
127.5	0.000	0.000	0.000	0.000	0.013	0.109	0.437	1.035	1.977	3.419
130.0	0.000	0.000	0.000	0.001	0.016	0.110	0.333	0.947	1.845	3.120
132.5	0.000	0.000	0.000	0.000	0.006	0.040	0.227	0.571	1.453	2.614
135.0	0.000	0.000	0.000	0.000	0.000	0.017	0.067	0.353	0.791	1.919
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.030	0.094	0.472	1.009
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.043	0.120	0.567
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.055	0.142
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.088	0.546
147.5	0.000	0.000	0.000	0.000	0.000	0.026	0.124	0.311	0.660	1.169
150.0	0.000	0.000	0.000	0.000	0.007	0.077	0.172	0.453	0.824	1.416
152.5	0.000	0.000	0.000	0.000	0.000	0.048	0.177	0.349	0.799	1.307
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.110	0.286	0.527	1.098
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.179	0.388	0.654
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	0.236	0.468
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.031	0.267
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.037	0.062	0.111

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.025	0.075	0.125	0.183
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.068	0.137	0.207
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.036	0.108	0.181
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.063	0.125
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.019	0.058
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	275.0	277.5	280.0	282.5	285.0	287.5	290.0	292.5	295.0	297.5
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	988.913	990.533	992.159	993.789	995.420	997.048	998.670	1000.282	1001.882	1003.467
5.0	982.851	986.111	989.390	992.682	995.981	999.280	1002.572	1005.850	1009.108	1012.338
7.5	975.152	980.059	985.004	989.979	994.972	999.975	1004.976	1011.115	1015.026	1020.080
10.0	965.834	972.331	978.943	985.607	992.310	999.037	1005.818	1012.752	1019.663	1026.536
12.5	954.692	962.897	971.163	979.510	987.921	997.575	1005.118	1014.015	1022.683	1031.429
15.0	941.886	951.998	961.630	971.639	981.744	991.967	1002.600	1013.266	1023.942	1034.625
17.5	924.160	935.360	946.783	958.548	970.239	982.297	994.846	1007.519	1020.289	1033.216
20.0	902.497	915.277	929.240	941.756	955.412	969.435	983.704	998.277	1013.001	1027.978
22.5	878.989	893.300	907.986	923.060	938.520	954.423	970.456	986.897	1003.563	1020.556
25.0	853.647	869.419	885.641	902.279	919.480	937.081	955.034	973.293	991.830	1010.807
27.5	826.477	843.600	861.329	879.499	898.229	917.611	937.651	957.397	979.097	998.607
30.0	797.085	815.752	835.030	854.680	874.824	895.817	917.399	939.165	961.217	983.860
32.5	766.175	785.887	806.567	827.286	848.391	870.319	893.311	916.811	940.621	965.106
35.0	732.045	752.108	773.085	795.092	817.791	841.219	865.722	891.112	916.904	943.303
37.5	694.935	716.440	737.783	760.760	785.242	809.681	835.497	862.538	890.261	918.557
40.0	656.428	678.221	700.912	724.495	749.542	775.588	802.844	831.187	860.598	890.689
42.5	616.645	639.125	662.430	686.818	712.212	739.287	767.545	797.119	827.920	859.652
45.0	575.635	598.721	622.664	648.212	673.520	701.346	729.815	760.433	792.343	825.444
47.5	533.477	557.081	581.554	606.894	633.155	660.838	690.167	722.011	758.768	796.231
50.0	490.247	514.295	539.204	564.984	591.633	622.337	656.258	691.876	728.621	766.617
52.5	446.481	470.451	495.696	524.984	557.389	590.486	624.691	659.970	696.908	735.086
55.0	401.984	427.763	459.090	491.232	524.041	557.479	591.664	627.151	663.771	701.672
57.5	363.101	393.221	424.623	456.735	489.607	523.308	557.685	593.768	629.426	667.160
60.0	329.157	358.930	389.719	421.816	454.593	488.060	522.537	557.742	593.802	631.205
62.5	296.947	324.731	355.142	386.619	419.119	452.430	486.438	521.464	557.363	594.191
65.0	262.368	290.810	320.597	351.529	383.369	416.301	450.000	484.414	519.811	556.247
67.5	230.207	257.565	286.208	316.554	347.877	380.051	413.125	447.052	482.932	526.042
70.0	199.636	225.177	252.908	281.865	312.398	343.967	376.303	412.101	452.004	492.450
72.5	169.964	193.538	220.224	248.207	277.342	307.920	343.450	381.779	420.774	460.612
75.0	142.802	164.712	188.322	215.176	243.272	277.138	313.692	351.322	389.627	428.483
77.5	117.104	137.581	159.419	183.005	215.098	249.214	284.425	320.904	358.410	396.438
80.0	91.659	111.989	132.276	159.425	189.039	221.829	255.898	290.986	327.240	364.394
82.5	67.490	86.176	112.040	137.935	165.662	195.359	227.984	261.831	296.608	332.486
85.0	44.713	67.523	91.885	117.589	143.644	171.445	201.044	233.379	266.810	301.080
87.5	30.987	50.940	73.509	97.486	122.795	148.897	176.602	205.916	237.837	270.643
90.0	21.348	37.264	57.059	79.230	102.705	127.434	153.535	180.961	209.969	241.184
92.5	14.489	27.375	43.349	62.926	84.583	107.425	131.704	157.393	184.353	212.983
95.0	10.154	20.042	33.226	49.150	68.447	89.471	111.539	135.193	160.309	192.715
97.5	9.217	15.044	25.440	38.815	54.571	73.530	93.807	114.949	142.634	177.275
100.0	7.737	12.744	19.605	30.590	44.048	59.815	78.092	100.787	130.532	163.424
102.5	5.934	10.195	16.094	24.021	35.391	48.836	66.495	92.936	121.018	151.039
105.0	4.391	7.527	12.427	19.156	28.062	41.206	62.250	86.100	112.334	140.031
107.5	3.057	5.365	9.000	14.543	22.959	39.714	59.046	80.372	104.591	130.469
110.0	1.806	3.641	6.203	11.358	23.775	38.470	56.130	75.844	97.617	121.751
112.5	0.726	2.096	5.239	13.445	24.404	37.682	53.261	71.462	91.365	113.558

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CANDELA TABULATION - (Cont.)

115.0	0.249	2.014	7.832	15.356	24.715	36.687	50.624	67.024	85.470	105.534
117.5	1.317	4.793	9.615	16.397	24.857	35.292	47.978	62.363	79.407	97.903
120.0	3.493	6.688	11.053	16.726	24.384	33.537	44.887	58.034	73.073	90.151
122.5	4.818	7.832	11.786	16.894	23.382	31.612	41.300	53.267	66.596	82.136
125.0	5.393	8.194	11.775	16.487	22.040	29.347	37.883	48.165	60.182	73.823
127.5	5.354	8.000	11.299	15.440	20.650	26.808	34.445	42.987	53.705	65.380
130.0	4.946	7.355	10.361	14.022	18.635	24.125	30.748	38.494	47.342	58.819
132.5	4.181	6.308	8.982	12.383	16.367	21.236	26.751	33.719	42.729	53.370
135.0	3.292	5.108	7.428	10.389	13.966	18.118	23.428	30.650	38.985	48.209
137.5	2.304	3.825	5.847	8.226	11.411	15.944	21.670	27.944	35.310	43.111
140.0	1.165	2.565	4.250	6.856	10.502	14.856	19.717	25.455	31.668	38.710
142.5	0.620	1.740	3.993	6.718	9.985	13.649	17.946	22.874	28.210	34.415
145.0	1.239	2.475	4.129	6.409	9.319	12.555	16.319	20.518	25.149	30.269
147.5	1.926	2.916	4.308	6.194	8.363	11.388	14.590	18.258	22.223	26.434
150.0	2.169	3.144	4.369	5.794	7.843	10.050	12.829	16.045	19.607	23.252
152.5	2.075	3.019	4.115	5.514	7.035	8.985	11.259	13.658	16.711	19.983
155.0	1.715	2.565	3.647	4.808	6.267	7.875	9.725	11.806	14.179	16.644
157.5	1.311	2.002	2.812	3.981	5.210	6.540	8.178	9.887	11.666	13.890
160.0	0.720	1.388	2.120	2.874	3.947	5.193	6.482	7.862	9.490	11.107
162.5	0.508	0.754	1.282	2.058	2.858	3.671	4.812	6.026	7.238	8.446
165.0	0.404	0.705	1.034	1.397	2.081	2.824	3.574	4.329	5.223	6.292
167.5	0.243	0.513	0.846	1.190	1.544	1.909	2.503	3.159	3.835	4.502
170.0	0.279	0.353	0.456	0.784	1.116	1.453	1.790	2.142	2.495	2.983
172.5	0.255	0.329	0.404	0.481	0.558	0.763	1.054	1.346	1.639	1.932
175.0	0.188	0.250	0.313	0.376	0.439	0.502	0.566	0.630	0.693	0.766
177.5	0.096	0.134	0.172	0.210	0.248	0.286	0.323	0.360	0.396	0.432
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	1005.032	1006.575	1008.094	1009.583	1011.042	1012.466	1013.999	1015.199	1016.502	1017.760
5.0	1015.535	1018.697	1021.865	1024.976	1028.023	1030.998	1033.895	1036.708	1039.431	1042.056
7.5	1025.085	1030.031	1034.904	1039.695	1044.390	1048.980	1053.466	1057.946	1062.417	1066.477
10.0	1033.354	1040.101	1046.788	1053.506	1060.106	1066.571	1072.886	1079.033	1084.997	1090.745
12.5	1040.143	1048.917	1057.600	1066.172	1074.611	1082.873	1090.710	1098.341	1105.743	1112.894
15.0	1045.362	1056.040	1066.633	1077.070	1087.148	1097.047	1106.738	1116.190	1125.206	1133.908
17.5	1046.202	1059.189	1072.062	1084.726	1097.258	1109.614	1121.067	1132.084	1142.849	1153.855
20.0	1043.028	1058.105	1073.097	1088.017	1102.758	1116.794	1130.633	1145.280	1157.046	1169.474
22.5	1037.673	1054.915	1072.218	1089.486	1105.969	1122.229	1138.221	1153.475	1168.421	1182.819
25.0	1029.967	1049.470	1069.131	1088.462	1107.109	1126.853	1143.500	1161.066	1178.031	1194.236
27.5	1019.760	1041.515	1063.548	1084.938	1105.874	1126.512	1146.668	1166.516	1185.537	1205.730
30.0	1006.929	1030.816	1055.195	1078.751	1101.964	1124.767	1147.338	1169.353	1190.939	1211.590
32.5	990.277	1016.202	1042.799	1068.814	1094.578	1119.829	1144.977	1169.208	1193.254	1215.825
35.0	970.565	998.487	1027.198	1055.702	1083.939	1111.678	1139.383	1165.743	1191.753	1216.475
37.5	947.701	977.588	1008.251	1039.160	1069.750	1100.011	1131.643	1158.699	1186.746	1213.482
40.0	921.591	953.385	985.866	1020.783	1051.754	1084.562	1116.920	1147.816	1177.996	1206.540
42.5	892.213	925.964	960.006	994.750	1029.798	1066.437	1101.729	1135.827	1168.797	1199.325
45.0	860.300	897.811	935.811	973.985	1012.316	1050.294	1087.444	1123.773	1158.045	1190.560
47.5	834.170	872.776	911.891	951.446	991.018	1030.371	1069.363	1107.167	1143.125	1177.717
50.0	805.426	844.846	886.661	925.393	966.109	1006.934	1047.005	1086.164	1124.285	1160.408
52.5	774.228	814.240	854.922	896.157	937.823	979.442	1020.755	1061.523	1100.673	1138.564
55.0	741.052	781.234	822.190	863.941	906.094	948.522	991.159	1033.575	1074.620	1114.058
57.5	705.959	746.146	787.175	828.928	871.834	916.645	960.720	1003.922	1045.291	1085.019
60.0	669.797	709.360	749.971	794.572	839.485	884.128	928.119	971.119	1012.979	1053.238

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CANDELA TABULATION - (Cont.)

62.5	632.153	673.203	717.051	761.249	805.752	849.943	893.577	936.413	978.016	1018.275
65.0	597.892	640.428	683.628	727.143	770.822	814.459	857.571	899.882	941.221	981.125
67.5	565.710	607.595	649.634	692.207	735.085	777.910	820.393	862.099	902.786	945.250
70.0	533.267	574.420	615.678	656.958	698.661	740.581	782.246	823.300	867.043	912.258
72.5	500.801	541.140	581.426	621.898	662.137	702.738	743.373	787.834	834.514	879.243
75.0	468.038	507.742	547.378	586.802	626.038	664.945	708.662	755.920	803.401	846.184
77.5	434.979	474.036	513.040	552.183	590.058	631.979	678.387	724.614	769.631	813.211
80.0	401.970	440.021	478.369	516.487	557.456	603.661	649.137	693.923	738.011	781.377
82.5	369.084	405.994	443.378	483.165	529.610	575.023	620.115	663.948	707.002	748.659
85.0	336.432	372.272	409.520	455.785	501.551	546.673	590.952	634.227	676.468	717.626
87.5	304.204	338.882	383.754	429.693	473.579	517.854	561.569	604.303	645.942	686.499
90.0	273.144	314.699	358.515	402.231	445.966	489.363	531.973	574.177	615.312	655.271
92.5	250.703	291.885	333.988	376.447	418.763	461.248	503.056	544.134	584.442	623.929
95.0	231.183	270.650	310.505	351.557	392.457	433.532	474.361	514.640	554.086	592.176
97.5	213.652	250.888	289.020	327.884	367.283	407.947	446.185	485.222	524.001	561.177
100.0	197.209	232.583	269.036	305.687	343.486	381.066	418.997	456.618	493.998	530.363
102.5	182.879	215.656	250.396	285.493	321.162	357.180	393.219	429.379	464.944	500.271
105.0	169.885	200.815	233.016	266.447	299.904	334.758	369.603	403.434	437.293	471.328
107.5	158.014	187.198	217.056	248.666	280.591	313.499	346.215	378.813	411.120	443.633
110.0	147.141	174.520	202.791	232.122	262.325	293.196	324.189	355.303	386.304	417.178
112.5	137.358	162.532	189.218	216.645	245.191	273.803	303.241	332.635	362.329	391.808
115.0	127.803	150.725	176.186	201.913	228.717	255.698	283.361	310.987	339.271	367.255
117.5	118.273	140.100	163.359	187.673	212.637	238.189	264.240	290.505	317.089	343.521
120.0	108.669	128.984	150.298	173.439	196.969	221.141	245.537	270.390	295.486	320.553
122.5	98.989	117.654	137.931	159.473	181.493	204.320	227.277	250.719	274.217	297.863
125.0	89.238	106.700	125.822	145.741	166.409	187.664	209.253	231.303	253.363	275.387
127.5	80.173	95.938	113.891	132.057	151.378	171.102	191.359	211.509	233.178	253.633
130.0	71.819	86.526	102.261	118.788	136.462	155.338	173.404	192.556	211.928	231.546
132.5	64.754	77.600	91.168	106.156	121.885	138.235	155.529	173.044	191.000	209.209
135.0	58.337	69.427	81.190	94.419	108.008	122.759	138.117	154.187	170.173	186.790
137.5	52.288	61.871	72.434	83.657	95.371	108.397	121.661	135.460	150.096	164.805
140.0	46.464	54.741	64.097	73.752	84.205	95.246	106.507	118.710	130.985	144.015
142.5	40.896	48.308	56.190	64.434	73.678	83.125	92.883	103.444	114.115	124.503
145.0	35.777	42.229	48.760	56.063	63.824	71.757	80.350	89.327	98.389	105.272
147.5	31.424	36.565	42.096	48.328	54.701	61.166	68.753	76.241	82.095	88.137
150.0	27.267	31.416	36.316	41.316	46.406	52.193	58.014	62.897	67.685	72.963
152.5	23.356	27.127	30.941	35.056	39.411	43.665	47.575	51.414	55.549	59.811
155.0	19.628	22.828	26.093	29.333	32.494	35.617	38.695	41.834	45.259	48.597
157.5	16.245	18.513	20.784	23.411	25.990	28.517	31.034	33.715	36.389	38.999
160.0	12.718	14.423	16.412	18.359	20.280	22.379	24.346	26.514	28.622	30.664
162.5	9.815	11.251	12.673	14.080	15.533	17.129	18.772	20.380	21.949	23.475
165.0	7.354	8.407	9.449	10.542	11.753	12.943	14.111	15.253	16.369	17.542
167.5	5.169	5.861	6.753	7.631	8.495	9.344	10.176	10.990	11.800	12.707
170.0	3.540	4.093	4.642	5.185	5.722	6.252	6.859	7.402	8.042	8.662
172.5	2.225	2.519	2.812	3.105	3.436	3.843	4.239	4.627	5.004	5.371
175.0	0.947	1.157	1.365	1.570	1.771	1.962	2.163	2.354	2.539	2.720
177.5	0.468	0.503	0.538	0.572	0.605	0.638	0.667	0.701	0.731	0.761
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382	993.382
2.5	1018.970	1020.129	1021.235	1022.285	1023.278	1024.211	1025.083	1025.891	1027.932	1028.214
5.0	1044.579	1046.993	1049.293	1051.474	1053.531	1055.459	1057.255	1058.914	1060.433	1061.809
7.5	1070.506	1074.364	1078.040	1081.527	1084.814	1087.893	1090.757	1093.398	1095.809	1097.985

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CANDELA TABULATION - (Cont.)

10.0	1096.053	1101.147	1105.997	1110.591	1114.916	1118.959	1122.711	1126.161	1129.300	1132.120
12.5	1119.773	1126.351	1132.562	1138.463	1144.033	1149.254	1154.108	1158.580	1162.652	1166.313
15.0	1142.318	1150.409	1158.152	1165.373	1172.072	1178.362	1184.219	1189.619	1194.586	1198.967
17.5	1163.096	1172.499	1181.523	1190.134	1198.174	1205.411	1212.145	1218.348	1223.991	1229.052
20.0	1181.496	1192.548	1202.721	1212.432	1221.633	1230.275	1238.329	1245.799	1252.639	1258.807
22.5	1196.300	1209.260	1221.597	1233.078	1243.868	1254.058	1263.497	1271.972	1279.786	1286.881
25.0	1209.952	1224.717	1238.806	1252.959	1264.129	1275.248	1285.694	1295.147	1303.315	1310.775
27.5	1221.696	1238.631	1254.345	1268.829	1282.608	1294.198	1304.662	1314.089	1322.522	1330.668
30.0	1231.412	1249.982	1267.247	1283.425	1297.645	1310.960	1322.023	1331.828	1340.378	1347.751
32.5	1237.959	1258.113	1277.625	1294.947	1311.241	1325.130	1338.694	1348.725	1358.346	1366.338
35.0	1240.026	1262.341	1283.066	1302.964	1320.570	1337.350	1351.467	1364.036	1374.391	1383.227
37.5	1238.670	1263.023	1285.312	1306.691	1326.404	1344.097	1361.556	1374.634	1388.082	1398.263
40.0	1233.534	1259.566	1283.796	1306.827	1329.069	1347.746	1365.144	1380.565	1393.692	1405.885
42.5	1228.569	1256.552	1282.293	1306.695	1329.755	1349.931	1367.854	1383.815	1396.670	1407.589
45.0	1221.762	1251.087	1278.347	1304.125	1328.139	1349.385	1368.659	1385.936	1400.010	1412.060
47.5	1210.529	1241.079	1270.102	1297.450	1321.761	1344.052	1364.204	1381.412	1395.475	1407.371
50.0	1194.330	1226.739	1257.835	1284.220	1309.277	1332.463	1352.868	1370.330	1385.266	1397.804
52.5	1174.445	1207.601	1238.108	1266.495	1292.641	1315.884	1337.163	1357.856	1373.517	1388.730
55.0	1150.303	1184.366	1216.245	1244.826	1271.154	1295.563	1319.761	1340.930	1359.220	1374.335
57.5	1122.950	1157.795	1189.919	1219.783	1248.276	1275.751	1300.921	1322.339	1341.064	1355.476
60.0	1091.395	1127.504	1160.649	1194.092	1225.452	1253.333	1278.546	1301.056	1319.553	1333.877
62.5	1057.034	1094.195	1132.459	1167.193	1198.829	1228.897	1253.504	1276.650	1294.971	1310.598
65.0	1021.586	1063.268	1101.724	1137.425	1169.487	1198.982	1225.528	1248.465	1267.982	1284.927
67.5	988.966	1030.654	1069.218	1105.137	1137.914	1167.517	1194.352	1217.686	1238.216	1255.779
70.0	955.488	996.654	1035.856	1071.747	1104.874	1134.576	1161.598	1185.365	1206.420	1224.504
72.5	923.705	962.345	1000.695	1037.184	1070.872	1100.586	1127.752	1152.039	1173.824	1192.574
75.0	888.466	928.381	966.116	1001.586	1034.698	1065.314	1092.888	1117.634	1141.109	1159.468
77.5	855.026	894.913	932.262	968.034	998.671	1028.491	1056.409	1081.950	1104.942	1124.700
80.0	822.052	861.246	898.695	932.247	963.201	992.352	1019.808	1045.236	1068.526	1087.879
82.5	789.663	828.598	864.460	897.042	927.865	956.651	983.580	1008.615	1031.749	1049.860
85.0	757.439	796.036	830.295	862.413	892.720	921.272	947.915	972.511	995.307	1012.017
87.5	725.835	762.350	796.084	827.904	858.053	886.341	912.845	937.533	959.070	975.084
90.0	693.819	729.040	762.392	793.936	823.650	851.803	878.147	904.110	922.658	938.378
92.5	661.163	696.145	729.332	760.744	790.305	818.196	844.305	868.640	886.580	902.235
95.0	628.699	663.780	696.963	728.228	757.716	785.545	811.599	835.301	851.557	866.508
97.5	596.882	632.349	664.409	696.129	725.648	753.817	779.916	801.468	817.032	831.383
100.0	565.723	599.710	632.276	663.415	693.298	721.785	748.750	768.067	782.929	796.681
102.5	534.877	568.417	600.719	631.650	661.160	689.260	715.957	732.522	747.536	761.275
105.0	504.638	537.406	569.282	600.018	629.344	657.327	681.466	697.179	711.721	725.075
107.5	475.489	507.181	538.079	568.098	597.217	625.179	647.816	661.611	675.806	688.875
110.0	447.586	477.986	507.645	536.684	565.052	592.444	609.954	624.904	638.903	651.780
112.5	420.980	449.919	478.227	506.143	533.448	557.846	573.320	587.937	601.476	613.703
115.0	395.193	422.829	449.893	476.634	502.738	522.787	537.574	551.570	564.540	576.460
117.5	370.157	396.478	422.360	447.967	472.922	488.663	502.706	515.989	528.347	539.747
120.0	345.761	370.697	395.373	419.799	441.234	455.239	468.549	481.091	492.782	503.588
122.5	321.681	345.301	368.741	391.902	408.842	422.099	434.710	446.503	457.638	467.855
125.0	297.901	320.011	342.132	363.463	376.696	390.072	401.209	412.401	422.816	432.424
127.5	274.483	295.879	315.902	332.454	344.784	356.534	367.811	378.381	388.213	397.184
130.0	251.129	270.633	289.982	302.045	313.507	324.460	334.921	344.730	353.857	362.269
132.5	227.420	245.634	260.564	271.702	282.618	292.829	302.492	311.552	319.976	327.733
135.0	203.435	219.791	231.058	241.661	251.576	261.286	270.295	278.695	286.461	293.570
137.5	179.571	191.801	202.088	211.857	221.994	230.004	238.384	246.175	253.356	259.905
140.0	155.741	165.354	174.534	183.179	191.576	199.789	207.452	214.551	221.070	226.997
142.5	132.881	141.179	149.143	156.755	164.177	171.495	178.334	184.678	190.516	195.831
145.0	112.513	119.499	126.214	132.643	139.136	145.485	151.443	156.992	162.117	166.803
147.5	94.261	100.138	105.822	111.510	116.841	122.175	127.187	131.861	136.185	140.143

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CANDELA TABULATION - (Cont.)

150.0	78.054	82.951	87.647	92.261	96.991	101.457	105.648	109.553	113.162	116.464
152.5	63.933	67.908	71.728	75.678	79.578	83.258	86.709	89.925	92.896	95.614
155.0	51.841	54.984	58.058	61.371	64.520	67.499	70.299	72.914	75.337	77.560
157.5	41.538	44.001	46.576	49.168	51.641	53.988	56.203	58.279	60.209	61.986
160.0	32.639	34.599	36.687	38.690	40.601	42.417	44.114	45.737	47.232	48.608
162.5	24.998	26.618	28.185	29.744	31.194	32.564	33.850	35.051	36.163	37.183
165.0	18.701	19.925	21.100	22.225	23.297	24.313	25.271	26.167	27.000	27.767
167.5	13.586	14.433	15.244	16.026	16.769	17.474	18.139	18.761	19.340	19.874
170.0	9.262	9.839	10.394	10.925	11.430	11.908	12.359	12.781	13.172	13.532
172.5	5.727	6.070	6.401	6.718	7.020	7.307	7.578	7.832	8.056	8.286
175.0	2.895	3.064	3.228	3.384	3.534	3.676	3.810	3.935	4.052	4.159
177.5	0.789	0.816	0.842	0.867	0.891	0.914	0.935	0.954	1.005	1.012
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	993.382	993.382	993.382	993.382	993.382
2.5	1028.499	1028.786	1029.076	1029.367	1029.658
5.0	1064.274	1064.815	1065.360	1065.907	1066.456
7.5	1099.920	1102.766	1103.564	1104.367	1105.173
10.0	1134.617	1136.783	1139.296	1140.283	1141.274
12.5	1169.550	1172.352	1175.628	1176.847	1178.072
15.0	1202.878	1206.260	1210.316	1211.673	1213.126
17.5	1233.509	1237.346	1240.552	1243.441	1245.042
20.0	1264.264	1268.975	1272.908	1276.457	1278.352
22.5	1293.199	1298.687	1303.300	1307.481	1309.744
25.0	1317.461	1323.312	1328.275	1332.800	1335.381
27.5	1338.122	1344.788	1350.642	1355.924	1359.099
30.0	1356.249	1363.614	1369.782	1375.325	1378.458
32.5	1372.212	1380.162	1387.374	1394.196	1398.165
35.0	1389.477	1393.650	1401.566	1408.616	1414.210
37.5	1405.657	1409.428	1412.089	1420.597	1427.638
40.0	1415.482	1423.109	1425.313	1428.356	1438.277
42.5	1417.275	1426.172	1434.488	1435.808	1442.462
45.0	1422.351	1430.381	1435.819	1439.345	1440.893
47.5	1416.958	1423.765	1432.899	1436.873	1442.462
50.0	1409.962	1420.773	1426.146	1426.475	1438.277
52.5	1401.775	1409.599	1412.199	1418.417	1427.638
55.0	1386.951	1392.700	1396.255	1406.220	1414.210
57.5	1366.402	1373.900	1381.315	1390.761	1398.165
60.0	1344.922	1353.268	1363.258	1371.968	1378.458
62.5	1322.300	1331.839	1342.768	1351.928	1359.099
65.0	1297.882	1309.462	1320.122	1328.788	1335.381
67.5	1270.216	1283.152	1294.207	1304.284	1309.744
70.0	1239.783	1252.621	1263.397	1273.149	1278.352
72.5	1207.914	1220.375	1230.716	1239.967	1245.042
75.0	1174.667	1187.390	1198.066	1207.705	1213.126
77.5	1139.415	1152.156	1162.867	1172.550	1178.072
80.0	1102.709	1115.444	1126.089	1135.657	1141.274
82.5	1064.934	1077.949	1089.000	1099.056	1105.173
85.0	1026.680	1039.437	1050.297	1060.184	1066.456
87.5	989.414	1002.038	1012.948	1022.986	1029.658
90.0	952.832	965.443	976.397	986.508	993.382
92.5	916.241	928.726	939.674	949.847	956.933
95.0	880.109	892.318	903.104	913.181	920.309

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CANDELA TABULATION - (Cont.)

97.5	844.262	856.268	866.723	876.515	883.510
100.0	809.271	820.647	830.764	840.261	847.061
102.5	773.716	784.843	794.645	803.782	810.262
105.0	737.217	748.124	757.779	766.809	773.290
107.5	700.785	711.508	721.016	729.923	736.317
110.0	663.503	674.041	683.366	692.091	698.298
112.5	625.104	635.312	644.318	652.721	658.709
115.0	587.308	597.066	605.715	613.597	619.643
117.5	550.162	559.563	567.925	575.774	581.450
120.0	513.476	522.415	530.375	537.854	543.256
122.5	477.198	485.635	493.139	500.183	505.237
125.0	441.196	449.104	456.123	462.702	467.392
127.5	405.542	412.980	419.564	425.729	430.070
130.0	369.936	376.828	382.917	388.611	392.574
132.5	334.790	341.117	346.685	351.881	355.427
135.0	299.996	305.719	310.717	315.358	318.454
137.5	265.803	271.032	275.574	279.777	282.528
140.0	232.317	237.019	242.401	244.849	247.299
142.5	200.613	204.848	209.692	211.926	214.163
145.0	171.034	174.795	179.105	181.111	183.120
147.5	143.723	146.911	150.563	152.278	153.995
150.0	119.448	122.104	125.143	126.576	128.010
152.5	98.073	100.264	102.683	103.962	105.163
155.0	79.577	81.382	83.435	84.445	85.456
157.5	63.605	65.058	66.712	67.538	68.365
160.0	49.862	50.987	52.269	52.905	53.541
162.5	38.109	38.937	39.878	40.344	40.810
165.0	28.465	29.091	29.803	30.161	30.520
167.5	20.360	21.041	21.293	21.547	21.800
170.0	13.860	14.320	14.488	14.656	14.824
172.5	8.484	8.764	8.865	8.967	9.069
175.0	4.350	4.395	4.441	4.488	4.534
177.5	1.019	1.025	1.032	1.039	1.046
180.0	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	362.87	N.A.	8.40
0-30	777.24	N.A.	18.00
0-40	1287.41	N.A.	29.80
0-60	2360.16	N.A.	54.60
0-80	3214.1	N.A.	74.30
0-90	3530.32	N.A.	81.70
10-90	3436.87	N.A.	79.50
20-40	924.54	N.A.	21.40
20-50	1471.22	N.A.	34.00
40-70	1537.64	N.A.	35.60
60-80	853.95	N.A.	19.80
70-80	389.06	N.A.	9.00
80-90	316.22	N.A.	7.30
90-110	450.97	N.A.	10.40
90-120	596.87	N.A.	13.80
90-130	695.78	N.A.	16.10
90-150	780.53	N.A.	18.10
90-180	792.72	N.A.	18.30
110-180	341.74	N.A.	7.90
0-180	4323.04	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	93.45
10-20	269.41
20-30	414.37
30-40	510.17
40-50	546.68
50-60	526.07
60-70	464.89
70-80	389.06
80-90	316.22
90-100	253.42
100-110	197.55
110-120	145.90
120-130	98.91
130-140	57.68
140-150	27.07
150-160	9.73
160-170	2.27
170-180	0.18

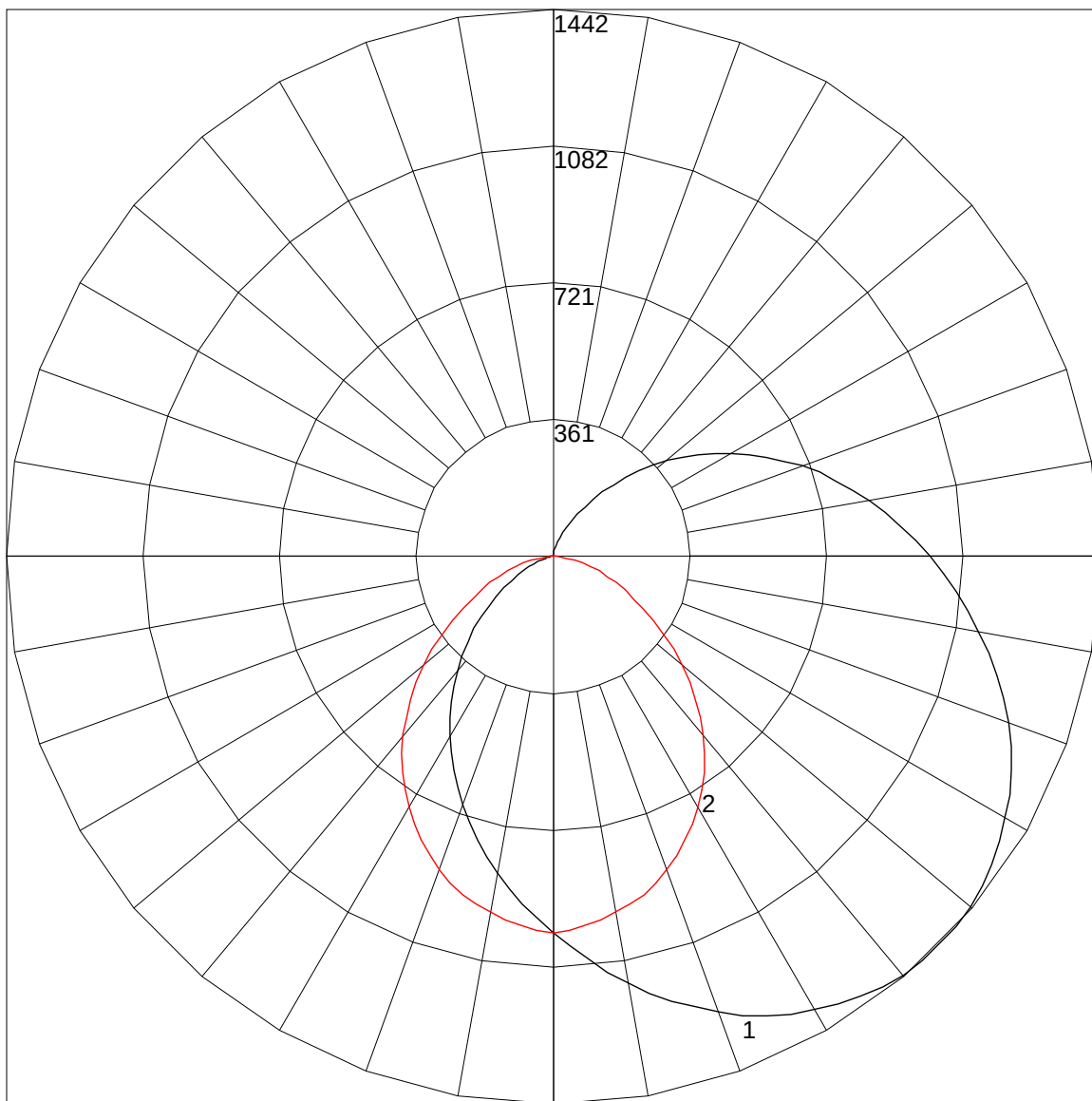
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	85	85	85	82
1	102	96	91	86	97	92	87	83	84	80	77	77	74	71	70	68	66	62
2	92	82	74	68	87	79	72	66	72	66	61	66	61	57	60	57	53	50
3	83	71	63	55	79	68	60	54	63	56	50	58	52	47	53	48	44	41
4	76	63	54	46	72	60	52	45	55	48	42	51	45	40	47	42	37	35
5	69	56	46	39	66	54	45	38	49	42	36	45	39	34	42	36	32	30
6	64	50	41	34	61	48	40	33	44	37	32	41	35	30	38	32	28	26
7	59	45	36	30	56	43	35	29	40	33	28	37	31	26	34	29	25	23
8	55	41	32	26	52	40	31	26	37	30	25	34	28	23	32	26	22	20
9	51	38	29	24	49	36	28	23	34	27	22	31	25	21	29	24	20	18
10	48	35	27	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16

POLAR GRAPH



Maximum Candela = 1442.462 Located At Horizontal Angle = 0, Vertical Angle = 42.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)