



IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48HFA40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]1410211019-002-001-P1
 [TESTLAB]Intertek
 [ISSUE DATE]10/27/2014
 [MANUFAC]LAMAR LIGHTING CO., INC.
 [LUMCAT]MCNL48HFA40
 [MORE]HIGH POWER SETTING (OUTPUT 1141MA)
 [LUMINAIRE]SURFACE MOUNT
 [LAMP]LED
 [LAMP CAT]NA. LUMINAIRE OUTPUT = 4457 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	4457
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
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	10512	7394	3546
55	12637	8026	2825
65	16023	8918	2101
75	23223	10753	1469
85	54545	17565	565

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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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1061.539	1061.239	1060.939	1060.640	1060.344	1060.050	1059.759	1057.656	1056.822	1055.924
5.0	1099.477	1098.911	1098.347	1097.785	1097.228	1094.686	1093.268	1091.702	1089.991	1088.140
7.5	1139.393	1138.562	1137.734	1136.911	1133.977	1131.982	1129.739	1127.253	1124.530	1121.578
10.0	1176.611	1175.590	1174.572	1171.982	1169.748	1167.175	1164.267	1161.030	1157.474	1153.606
12.5	1214.549	1213.286	1212.029	1208.651	1205.763	1202.362	1198.652	1194.453	1189.843	1184.838
15.0	1250.689	1249.191	1247.700	1243.611	1240.124	1236.092	1231.529	1226.454	1220.886	1214.848
17.5	1283.592	1281.942	1278.963	1275.658	1271.702	1267.107	1261.890	1256.072	1249.678	1242.735
20.0	1317.934	1315.980	1312.322	1308.266	1303.410	1297.784	1291.424	1284.372	1276.651	1268.368
22.5	1350.298	1347.961	1343.624	1338.899	1333.240	1326.727	1319.412	1311.356	1302.619	1292.846
25.0	1376.729	1374.068	1369.403	1364.286	1358.254	1351.361	1343.670	1335.249	1325.503	1314.734
27.5	1401.181	1397.908	1392.383	1386.427	1379.555	1371.869	1363.471	1354.776	1345.058	1334.270
30.0	1421.139	1417.910	1412.195	1405.836	1398.243	1389.482	1381.881	1373.067	1362.957	1351.551
32.5	1441.457	1437.365	1430.332	1422.895	1414.700	1408.645	1400.405	1390.486	1380.143	1366.153
35.0	1457.998	1452.231	1444.962	1436.801	1432.500	1426.057	1416.946	1406.272	1393.313	1378.759
37.5	1471.843	1464.583	1455.812	1453.068	1449.181	1441.559	1431.062	1417.197	1403.713	1385.704
40.0	1482.811	1472.581	1469.445	1467.173	1459.310	1449.416	1436.846	1423.312	1407.405	1389.476
42.5	1487.126	1480.265	1478.904	1470.332	1461.159	1451.172	1439.915	1426.663	1410.224	1391.729
45.0	1485.508	1483.912	1480.277	1474.670	1466.391	1455.781	1443.359	1428.849	1411.037	1391.166
47.5	1487.126	1481.363	1477.266	1467.850	1460.832	1450.948	1438.684	1424.180	1406.444	1385.669
50.0	1482.811	1470.643	1470.304	1464.764	1453.620	1441.084	1428.159	1412.746	1394.757	1373.721
52.5	1471.843	1462.387	1455.925	1453.245	1445.179	1431.730	1416.046	1399.899	1378.566	1356.628
55.0	1457.998	1449.761	1439.487	1435.822	1429.895	1416.889	1401.306	1382.449	1360.626	1335.670
57.5	1441.457	1433.823	1424.085	1416.439	1408.711	1397.446	1382.588	1363.284	1341.202	1315.252
60.0	1421.139	1414.449	1405.469	1395.170	1386.566	1375.179	1360.412	1341.341	1318.135	1292.141
62.5	1401.181	1393.788	1384.345	1373.078	1363.242	1351.179	1335.067	1316.179	1292.317	1266.948
65.0	1376.729	1369.932	1360.998	1350.007	1338.068	1324.713	1307.243	1287.122	1263.475	1236.106
67.5	1350.298	1344.668	1334.280	1322.883	1309.546	1294.662	1276.555	1255.389	1231.334	1203.667
70.0	1317.934	1312.569	1302.516	1291.406	1278.171	1262.418	1243.775	1222.068	1197.620	1169.706
72.5	1283.592	1278.361	1268.824	1258.162	1245.316	1229.500	1210.170	1187.710	1162.671	1134.663
75.0	1250.689	1245.100	1235.163	1224.156	1211.038	1195.369	1176.441	1152.239	1126.728	1098.299
77.5	1214.549	1208.857	1198.873	1187.831	1174.694	1159.524	1139.155	1115.451	1089.119	1060.336
80.0	1176.611	1170.821	1160.957	1149.981	1136.852	1121.563	1101.610	1077.600	1051.385	1023.079
82.5	1139.393	1133.086	1122.719	1111.326	1097.908	1082.497	1063.696	1039.845	1014.035	986.272
85.0	1099.477	1093.011	1082.818	1071.622	1058.470	1043.353	1026.125	1002.624	977.266	949.798
87.5	1061.539	1054.660	1044.312	1033.065	1020.050	1005.276	988.766	966.728	941.110	913.786
90.0	1024.141	1017.054	1006.630	995.337	982.335	967.626	951.226	932.104	905.337	878.178
92.5	986.563	979.258	968.769	957.483	944.611	930.171	914.192	895.536	870.447	843.530
95.0	948.805	941.456	931.067	919.948	907.359	893.338	877.924	861.164	836.730	809.868
97.5	910.867	903.655	893.560	882.781	870.624	857.126	842.331	826.285	804.066	777.157
100.0	873.289	866.278	856.487	846.057	834.329	821.350	807.171	791.849	771.934	744.134
102.5	835.351	828.670	819.250	809.145	797.673	784.846	770.682	755.202	738.125	710.601
105.0	797.233	790.551	781.242	771.288	760.043	747.526	733.758	718.766	702.567	677.679
107.5	759.116	752.524	743.342	733.538	722.484	710.205	696.731	682.096	667.874	644.537
110.0	719.919	713.746	704.526	694.911	684.047	671.961	658.686	644.253	628.840	610.788
112.5	679.105	672.934	664.283	655.030	644.568	632.918	620.100	606.142	591.072	575.119
115.0	638.829	632.819	624.470	615.553	605.494	594.309	582.020	568.648	554.219	538.974
117.5	599.453	593.602	585.510	576.888	567.196	556.459	544.705	531.965	518.270	503.793
120.0	560.077	554.508	546.797	538.590	529.375	519.180	508.040	495.987	483.057	469.334
122.5	520.881	515.670	508.408	500.672	491.973	482.341	471.807	460.406	448.170	435.168
125.0	481.864	477.029	470.246	463.010	454.857	445.814	435.908	425.170	413.632	402.151
127.5	443.387	438.912	432.556	425.768	418.099	409.578	400.234	390.097	379.200	367.574
130.0	404.730	400.644	394.773	388.496	381.391	373.486	364.813	355.404	345.291	334.507
132.5	366.432	362.777	357.419	351.679	345.156	337.880	329.884	321.199	311.858	301.896

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CANDELA TABULATION - (Cont.)

135.0	328.315	325.123	320.338	315.186	309.286	302.660	295.331	287.324	278.664	269.377
137.5	291.276	288.440	284.107	279.532	274.033	267.952	261.345	253.797	245.765	237.177
140.0	254.956	252.430	249.906	244.358	239.510	234.025	227.915	221.194	213.875	205.975
142.5	220.794	218.488	216.184	211.190	206.824	201.895	196.415	190.397	183.855	176.805
145.0	188.790	186.719	184.650	180.207	176.329	171.967	167.137	161.853	156.132	149.990
147.5	158.763	156.993	155.225	151.460	148.173	144.482	140.401	135.944	131.125	125.958
150.0	131.973	130.494	129.116	125.884	123.146	120.070	116.666	112.945	108.919	104.598
152.5	108.419	107.181	105.944	103.369	101.110	98.575	95.772	92.709	89.394	85.835
155.0	88.102	87.060	86.019	83.902	82.041	79.962	77.670	75.172	72.476	69.591
157.5	70.482	69.630	68.778	67.073	65.574	63.905	62.073	60.084	57.944	55.661
160.0	55.199	54.543	53.888	52.566	51.406	50.114	48.695	47.154	45.498	43.731
162.5	42.073	41.592	41.112	40.165	39.289	38.335	37.314	36.136	34.898	33.587
165.0	31.465	31.095	30.725	29.991	29.345	28.626	27.836	26.977	26.053	25.066
167.5	22.475	22.214	21.952	21.692	21.014	20.489	19.939	19.342	18.728	18.015
170.0	15.283	15.109	14.936	14.763	14.289	13.951	13.580	13.176	12.742	12.277
172.5	9.350	9.245	9.140	9.035	8.747	8.543	8.318	8.075	7.813	7.533
175.0	4.675	4.627	4.580	4.532	4.485	4.288	4.177	4.057	3.928	3.791
177.5	1.079	1.072	1.065	1.058	1.051	1.044	1.037	0.984	0.964	0.942
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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1054.962	1053.938	1052.855	1051.715	1050.520	1049.273	1047.976	1046.572	1045.244	1043.815
5.0	1086.152	1084.031	1081.782	1079.411	1076.922	1074.321	1071.614	1068.808	1065.908	1062.920
7.5	1118.403	1115.014	1111.420	1107.630	1103.653	1099.499	1095.179	1090.704	1086.085	1081.460
10.0	1149.437	1144.979	1140.243	1135.242	1129.991	1124.504	1118.592	1112.443	1106.106	1099.596
12.5	1179.456	1173.713	1167.630	1161.226	1154.444	1147.353	1139.980	1132.349	1124.481	1116.402
15.0	1208.363	1201.457	1194.012	1186.029	1177.688	1169.017	1160.046	1150.750	1141.006	1131.015
17.5	1235.274	1226.985	1218.107	1208.803	1199.109	1189.457	1178.235	1167.137	1155.779	1143.972
20.0	1259.459	1249.973	1239.962	1229.474	1218.080	1205.685	1192.872	1180.741	1165.641	1151.373
22.5	1282.382	1271.258	1259.422	1246.703	1233.342	1219.444	1204.599	1189.190	1173.464	1156.977
25.0	1303.271	1291.703	1277.164	1262.639	1247.416	1231.207	1214.507	1197.017	1178.907	1161.744
27.5	1322.322	1308.117	1293.183	1276.983	1259.524	1243.063	1222.246	1202.635	1182.172	1161.275
30.0	1337.824	1323.163	1306.485	1288.685	1269.541	1249.077	1227.815	1205.561	1182.864	1159.593
32.5	1351.842	1335.042	1317.184	1297.068	1276.290	1253.471	1230.201	1205.410	1180.430	1154.502
35.0	1361.460	1343.309	1322.795	1301.353	1278.422	1254.141	1228.654	1201.838	1174.662	1146.099
37.5	1367.474	1347.142	1325.110	1302.130	1277.024	1251.056	1223.491	1194.576	1166.682	1134.071
40.0	1370.221	1347.280	1323.547	1298.567	1271.728	1243.898	1214.349	1183.356	1151.504	1118.144
42.5	1370.928	1347.154	1321.997	1295.459	1266.610	1236.460	1204.986	1170.995	1135.842	1099.458
45.0	1369.263	1344.506	1317.930	1289.825	1259.595	1227.423	1193.902	1158.569	1121.115	1082.814
47.5	1362.688	1337.635	1309.429	1279.507	1248.011	1214.184	1178.520	1141.448	1102.474	1062.274
50.0	1349.817	1323.984	1296.780	1264.722	1231.311	1196.338	1159.097	1119.796	1079.418	1038.112
52.5	1332.665	1305.710	1276.443	1244.992	1210.810	1173.819	1134.740	1094.391	1052.361	1009.756
55.0	1310.514	1283.371	1253.904	1221.038	1185.920	1148.553	1107.895	1065.578	1021.849	977.892
57.5	1286.927	1257.552	1226.762	1193.644	1157.721	1118.615	1077.657	1035.006	990.467	945.027
60.0	1263.396	1231.064	1196.586	1162.414	1125.188	1085.850	1044.344	1001.188	956.857	911.503
62.5	1235.949	1203.333	1167.524	1128.075	1089.764	1049.832	1008.298	965.408	921.245	876.260
65.0	1205.699	1172.644	1135.838	1096.191	1053.218	1011.503	970.365	927.746	884.124	839.678
67.5	1173.147	1139.356	1102.490	1062.566	1019.588	974.518	930.740	888.792	845.795	801.997
70.0	1139.085	1104.931	1067.930	1027.513	985.073	940.505	893.889	848.792	806.467	763.512
72.5	1104.030	1069.299	1031.680	992.142	952.306	906.467	860.353	812.228	766.391	724.497
75.0	1066.736	1032.598	996.030	957.126	915.976	872.384	828.278	779.326	730.605	685.535
77.5	1029.593	998.008	961.128	922.622	881.501	838.392	793.462	747.050	699.392	651.547
80.0	993.025	961.358	926.521	887.914	847.506	805.570	760.863	715.409	669.237	622.352

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82.5	956.595	924.817	891.227	854.254	814.113	772.078	729.378	684.506	639.784	593.123
85.0	920.361	889.116	856.003	820.683	780.892	739.846	697.415	653.865	609.250	563.599
87.5	884.621	853.539	820.733	785.955	748.310	707.756	665.942	623.015	578.957	533.889
90.0	849.152	818.518	785.999	751.613	715.302	675.560	634.364	591.956	548.445	504.515
92.5	814.776	784.567	751.914	717.700	681.635	643.248	602.538	560.982	518.632	475.530
95.0	781.177	750.776	718.544	684.333	648.167	610.512	571.243	530.575	489.049	446.955
97.5	748.479	717.684	684.981	651.929	615.364	578.554	540.226	500.247	460.079	420.578
100.0	714.765	683.956	651.853	618.280	583.239	546.785	509.294	470.757	431.971	392.866
102.5	681.631	651.208	619.319	586.017	551.439	515.761	479.341	442.675	405.394	368.239
105.0	648.831	618.597	586.909	554.046	520.264	485.922	450.834	415.925	381.047	345.123
107.5	615.709	585.689	554.740	522.885	490.212	457.370	424.213	390.542	356.935	323.206
110.0	582.549	553.747	523.363	492.785	461.445	430.095	398.265	366.305	334.228	302.882
112.5	549.965	521.815	493.034	463.848	434.015	403.940	373.548	342.935	312.630	282.280
115.0	518.304	491.392	463.823	435.920	407.429	378.627	349.776	320.615	292.135	263.616
117.5	487.565	461.838	435.438	408.754	381.618	354.157	326.907	299.500	272.421	245.564
120.0	454.895	432.797	407.615	382.175	356.467	330.479	304.637	278.763	253.141	227.988
122.5	421.502	404.036	380.159	355.993	331.642	307.087	282.708	258.482	234.314	210.646
125.0	388.361	374.717	352.726	329.920	307.125	284.161	261.208	238.465	215.733	193.474
127.5	355.460	342.748	325.684	305.041	282.982	261.486	240.398	218.534	197.284	176.400
130.0	323.214	311.397	299.099	279.013	258.904	238.716	218.490	198.518	178.774	160.148
132.5	291.369	280.280	268.632	253.240	234.735	215.686	196.915	178.493	160.345	142.515
135.0	259.520	249.143	238.213	226.753	209.735	192.573	175.442	158.961	142.394	126.560
137.5	228.868	218.417	208.345	197.740	185.131	169.907	154.743	140.001	125.428	111.753
140.0	197.508	188.942	179.939	170.474	160.564	148.474	135.388	122.386	109.805	98.195
142.5	169.260	161.609	153.761	145.550	136.996	128.359	117.649	106.930	95.759	85.699
145.0	143.444	136.751	130.122	123.199	115.997	108.532	101.447	92.093	83.083	73.979
147.5	120.459	114.963	109.099	103.262	97.180	90.885	84.637	78.605	70.882	63.250
150.0	99.994	95.118	90.360	85.519	80.470	75.222	69.783	64.844	59.810	53.809
152.5	82.041	78.021	73.948	70.010	65.912	61.746	57.269	53.006	49.048	45.017
155.0	66.518	63.271	59.855	56.685	53.446	50.102	46.660	43.129	39.893	36.720
157.5	53.241	50.691	48.018	45.363	42.823	40.221	37.515	34.758	31.994	29.400
160.0	41.859	39.888	37.823	35.670	33.649	31.613	29.507	27.335	25.099	23.071
162.5	32.160	30.665	29.091	27.442	25.772	24.202	22.628	21.011	19.354	17.659
165.0	24.018	22.913	21.753	20.541	19.280	18.085	16.875	15.725	14.547	13.343
167.5	17.288	16.522	15.719	14.879	14.006	13.101	12.165	11.331	10.491	9.633
170.0	11.784	11.263	10.716	10.144	9.548	8.954	8.291	7.631	7.072	6.446
172.5	7.237	6.926	6.599	6.258	5.904	5.538	5.159	4.770	4.371	3.962
175.0	3.644	3.489	3.328	3.160	2.985	2.804	2.618	2.427	2.231	2.030
177.5	0.919	0.895	0.869	0.842	0.814	0.784	0.754	0.723	0.691	0.659
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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1042.347	1040.843	1039.307	1037.742	1036.151	1034.538	1032.904	1031.255	1029.592	1027.920
5.0	1059.853	1056.712	1053.505	1050.238	1046.978	1043.683	1040.353	1036.994	1033.615	1030.221
7.5	1076.728	1071.887	1066.948	1061.924	1056.825	1051.615	1046.454	1042.423	1036.093	1030.937
10.0	1092.930	1086.119	1079.200	1072.306	1065.350	1058.321	1051.235	1044.110	1036.962	1029.971
12.5	1107.884	1099.184	1090.347	1081.395	1072.350	1063.366	1054.188	1045.301	1036.240	1028.465
15.0	1120.810	1110.420	1099.660	1088.739	1077.731	1066.661	1055.647	1044.641	1033.645	1022.682
17.5	1131.233	1118.313	1105.256	1091.984	1078.596	1065.208	1051.873	1038.716	1025.650	1012.713
20.0	1136.903	1121.705	1106.323	1090.867	1075.324	1059.808	1044.367	1029.187	1014.163	999.452
22.5	1140.213	1123.220	1105.417	1087.412	1069.802	1052.156	1034.637	1017.455	1000.505	983.833
25.0	1141.388	1122.165	1102.235	1081.965	1061.858	1042.105	1022.541	1003.430	984.605	966.096
27.5	1140.115	1118.531	1096.479	1073.764	1051.335	1029.527	1009.414	987.040	966.413	946.022

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CANDELA TABULATION - (Cont.)

30.0	1136.084	1112.081	1087.866	1062.612	1038.106	1014.323	990.979	968.244	945.804	923.554
32.5	1128.469	1101.908	1075.087	1047.667	1020.939	994.988	969.746	945.198	920.971	897.267
35.0	1117.502	1088.390	1059.004	1029.403	1000.617	972.511	945.294	918.703	892.528	867.266
37.5	1102.872	1071.335	1039.469	1007.857	977.045	946.998	917.826	889.245	861.367	834.751
40.0	1084.320	1052.282	1016.391	982.905	950.127	918.267	887.245	856.924	827.272	799.603
42.5	1061.680	1025.550	989.731	954.365	919.839	886.269	853.343	821.801	791.311	762.178
45.0	1043.660	1004.142	964.787	925.610	886.938	851.002	816.877	783.978	752.412	722.573
47.5	1021.703	980.906	940.126	899.800	859.998	820.805	782.262	744.367	711.537	681.299
50.0	996.023	954.046	914.115	871.005	830.365	790.355	751.182	713.299	676.579	641.607
52.5	966.861	923.904	881.393	839.452	798.201	757.847	718.423	680.404	644.033	608.770
55.0	934.149	890.691	847.647	805.423	763.997	723.398	684.323	646.569	609.859	574.741
57.5	898.829	854.594	811.549	769.249	727.818	687.817	648.915	612.153	574.926	539.511
60.0	865.479	819.174	773.193	731.325	690.536	650.748	612.189	575.012	538.648	503.172
62.5	830.700	784.819	739.253	694.047	651.726	612.589	574.622	537.610	501.500	466.439
65.0	794.689	749.658	704.795	660.256	616.405	573.471	535.906	499.414	463.934	429.191
67.5	757.846	713.640	669.749	626.408	583.226	542.330	497.885	460.894	425.916	391.818
70.0	720.294	677.299	634.742	592.206	549.779	507.698	466.000	424.861	387.955	354.617
72.5	682.640	641.154	599.531	557.895	516.309	474.874	433.803	393.599	354.084	317.453
75.0	645.423	604.972	564.327	523.463	482.530	441.751	401.691	362.231	323.405	285.719
77.5	608.328	569.281	528.926	488.713	448.447	408.713	369.507	330.840	293.232	256.930
80.0	574.717	532.479	493.182	453.646	414.416	375.676	337.373	299.996	263.822	228.697
82.5	546.009	498.125	457.107	418.565	380.512	342.780	305.792	269.937	235.043	201.408
85.0	517.081	470.411	422.199	383.799	346.850	310.403	275.072	240.606	207.269	176.752
87.5	488.242	442.997	395.636	349.404	313.623	279.024	245.202	212.292	182.070	153.507
90.0	459.774	414.685	369.616	324.443	281.602	248.653	216.471	186.564	158.288	131.486
92.5	431.730	388.104	344.330	300.923	258.466	219.578	190.075	162.266	135.782	110.751
95.0	404.609	362.443	320.120	279.030	238.341	198.681	165.272	139.378	114.992	92.241
97.5	378.656	338.036	297.969	258.656	220.267	182.763	147.050	118.508	96.712	75.807
100.0	354.122	315.280	277.367	239.784	203.315	168.483	134.900	103.907	80.510	61.666
102.5	331.106	294.333	258.148	222.543	188.541	155.715	124.765	95.814	68.554	50.348
105.0	309.568	274.697	240.230	207.033	175.144	144.367	115.812	88.766	64.178	42.482
107.5	289.279	256.366	223.785	192.994	162.907	134.509	108.273	82.861	60.875	40.944
110.0	270.447	239.309	209.071	179.924	151.698	125.521	100.640	78.192	57.867	39.661
112.5	252.783	223.353	195.078	167.564	141.612	117.510	94.195	73.675	54.910	38.849
115.0	235.799	208.165	181.642	155.870	131.761	108.802	88.117	69.099	52.191	37.822
117.5	219.222	193.484	168.417	144.438	121.935	100.934	81.866	64.294	49.463	36.384
120.0	203.068	178.809	154.952	132.977	112.033	92.943	75.336	59.830	46.277	34.575
122.5	187.113	164.410	142.201	121.296	102.054	84.679	68.658	54.916	42.579	32.591
125.0	171.561	150.253	129.718	110.004	92.001	76.108	62.045	49.656	39.056	30.256
127.5	156.239	136.145	117.417	99.200	82.655	67.403	55.367	44.318	35.512	27.638
130.0	140.687	122.465	105.427	89.204	74.249	60.641	48.808	39.686	31.701	24.872
132.5	125.659	109.442	93.990	80.003	66.759	55.023	44.053	34.763	27.580	21.894
135.0	111.352	97.342	83.704	71.577	60.144	49.702	40.192	31.598	24.153	18.680
137.5	98.324	86.247	74.677	63.787	54.132	44.445	36.403	28.809	22.340	16.437
140.0	86.813	76.036	66.082	56.435	47.902	39.909	32.649	26.243	20.327	15.316
142.5	75.959	66.429	57.931	49.804	42.162	35.481	29.084	23.583	18.501	14.152
145.0	65.800	57.799	50.389	43.537	37.018	31.206	25.928	21.153	16.824	12.944
147.5	56.395	49.824	43.399	37.697	32.397	27.253	22.910	18.823	15.043	11.741
150.0	47.843	42.596	37.441	32.389	28.112	23.972	20.213	16.541	13.226	10.361
152.5	40.631	36.141	32.012	27.966	24.079	20.601	17.228	14.081	11.608	9.263
155.0	33.500	30.241	26.901	23.534	20.236	17.159	14.618	12.170	10.025	8.118
157.5	26.794	24.136	21.428	19.086	16.748	14.320	12.028	10.213	8.431	6.742
160.0	20.907	18.927	16.920	14.888	13.112	11.451	9.783	8.105	6.683	5.354
162.5	16.013	14.516	13.065	11.599	10.118	8.707	7.462	6.212	4.961	3.785
165.0	12.116	10.868	9.761	8.667	7.582	6.487	5.385	4.464	3.685	2.912
167.5	8.758	7.867	6.962	6.043	5.329	4.642	3.954	3.267	2.581	1.968

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CANDELA TABULATION - (Cont.)

170.0	5.899	5.346	4.786	4.220	3.650	3.076	2.572	2.209	1.851	1.498
172.5	3.544	3.202	2.900	2.597	2.295	1.992	1.690	1.388	1.087	0.787
175.0	1.826	1.618	1.407	1.193	0.976	0.790	0.715	0.649	0.584	0.518
177.5	0.624	0.590	0.554	0.519	0.482	0.446	0.408	0.371	0.333	0.294
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

	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1026.242	1024.561	1022.880	1021.204	1019.534	1017.874	1017.054	1014.585	1012.966	1011.370
5.0	1026.820	1023.419	1020.025	1016.644	1013.284	1009.954	1006.630	1003.349	1000.114	996.931
7.5	1025.780	1020.632	1015.503	1010.405	1005.346	1000.320	995.337	990.423	985.587	980.838
10.0	1023.035	1016.125	1009.255	1002.438	995.739	988.965	982.335	975.809	969.399	963.116
12.5	1018.511	1009.839	1001.234	992.711	984.252	975.874	967.433	959.523	951.577	943.904
15.0	1012.143	1001.724	991.405	981.475	971.049	961.052	951.226	942.298	932.364	923.225
17.5	1000.282	988.084	975.812	964.322	952.775	941.509	932.104	920.163	910.101	900.408
20.0	984.995	970.916	958.013	943.617	930.442	918.375	905.337	893.457	881.999	871.284
22.5	967.581	951.641	936.100	920.960	906.205	891.959	878.178	866.554	852.445	840.498
25.0	947.951	930.216	913.063	896.338	880.078	864.324	849.152	834.835	821.095	808.044
27.5	926.042	906.731	887.998	869.721	851.932	836.545	818.518	802.912	788.045	773.910
30.0	901.911	881.144	860.885	841.010	821.765	803.191	785.999	769.216	753.206	738.053
32.5	874.660	852.901	831.268	810.220	789.898	770.382	751.613	733.655	716.622	700.514
35.0	843.112	819.710	797.023	775.396	754.713	734.756	715.302	696.304	678.275	661.049
37.5	809.065	784.315	760.627	738.119	716.453	695.588	675.560	656.355	637.895	619.947
40.0	772.749	746.928	722.615	699.221	676.753	655.136	634.364	614.382	595.212	577.450
42.5	734.265	708.084	682.941	658.914	635.738	613.430	591.956	571.310	552.140	533.883
45.0	694.374	668.283	641.944	617.260	593.458	570.529	548.445	527.851	508.219	489.667
47.5	652.759	625.685	599.561	574.330	549.995	526.523	504.515	483.548	463.757	445.241
50.0	609.953	582.478	555.900	530.220	505.428	482.038	459.774	438.797	419.195	400.676
52.5	574.648	541.239	511.044	485.018	460.305	436.781	414.685	394.023	375.737	357.034
55.0	540.267	506.442	473.306	441.008	414.430	391.298	369.616	349.127	330.677	313.814
57.5	504.767	470.877	437.771	405.396	374.344	345.850	324.443	305.057	287.413	271.300
60.0	468.669	434.877	401.786	370.044	339.349	309.612	281.602	261.655	245.287	230.629
62.5	432.097	398.455	366.138	334.786	306.142	275.785	248.653	224.374	204.189	191.101
65.0	395.239	362.413	330.524	299.815	270.383	242.780	216.471	192.803	170.707	153.934
67.5	358.649	326.356	295.070	265.540	237.336	212.057	186.564	164.256	143.321	124.960
70.0	322.070	290.592	260.738	232.149	205.818	180.758	158.288	137.214	118.192	101.316
72.5	285.930	255.891	227.043	199.518	175.226	152.659	131.378	111.867	94.449	78.927
75.0	250.804	221.838	194.153	169.812	147.224	126.031	105.884	87.934	71.978	58.700
77.5	221.758	188.672	164.355	141.840	120.729	100.134	81.683	65.305	51.715	41.418
80.0	194.892	164.361	136.371	115.457	94.497	75.601	58.826	44.982	34.794	26.877
82.5	170.791	142.205	115.509	88.768	69.579	52.454	38.417	28.349	20.869	15.719
85.0	148.091	121.230	94.729	69.614	46.073	31.932	22.009	14.972	10.524	9.611
87.5	126.597	100.504	75.784	52.517	31.947	15.701	9.126	5.423	5.784	5.379
90.0	105.884	81.683	58.826	38.417	22.009	9.126	0.360	1.995	2.680	2.649
92.5	87.227	64.875	44.692	28.223	14.937	5.416	1.995	0.001	0.880	1.143
95.0	70.566	50.828	34.255	20.663	10.468	5.768	2.680	0.886	0.004	0.349
97.5	56.260	40.016	26.227	15.510	9.502	5.349	2.649	1.153	0.361	0.005
100.0	45.413	31.538	20.213	13.139	7.976	4.402	2.303	1.074	0.384	0.072
102.5	36.488	24.765	16.592	10.511	6.118	3.437	1.787	0.766	0.214	0.044
105.0	28.931	19.749	12.880	7.761	4.527	2.499	1.148	0.362	0.090	0.000
107.5	23.670	14.993	9.279	5.531	3.152	1.518	0.509	0.138	0.000	0.000
110.0	24.512	11.710	6.395	3.754	1.863	0.644	0.185	0.000	0.000	0.000
112.5	25.160	13.861	5.402	2.161	0.748	0.227	0.000	0.000	0.000	0.000
115.0	25.481	15.832	8.075	2.076	0.257	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

117.5	25.627	16.905	9.912	5.119	1.357	0.000	0.000	0.000	0.000	0.000
120.0	25.140	17.244	11.394	6.895	3.601	1.306	0.000	0.000	0.000	0.000
122.5	24.106	17.417	12.151	8.074	4.967	2.703	1.127	0.136	0.000	0.000
125.0	22.852	16.997	12.139	8.448	5.560	3.375	1.851	0.847	0.229	0.000
127.5	21.290	15.918	11.649	8.248	5.520	3.525	2.038	1.066	0.450	0.113
130.0	19.212	14.457	10.682	7.583	5.099	3.217	1.903	0.976	0.343	0.113
132.5	16.875	12.767	9.260	6.503	4.310	2.695	1.498	0.588	0.234	0.042
135.0	14.398	10.711	7.658	5.267	3.394	1.978	0.816	0.364	0.069	0.017
137.5	11.764	8.481	6.028	3.943	2.387	1.040	0.487	0.098	0.031	0.000
140.0	10.828	7.069	4.382	2.645	1.201	0.585	0.124	0.045	0.000	0.000
142.5	10.294	6.927	4.116	1.794	0.639	0.146	0.057	0.000	0.000	0.000
145.0	9.608	6.621	4.257	2.551	1.277	0.562	0.090	0.000	0.000	0.000
147.5	8.622	6.385	4.442	3.007	1.986	1.206	0.681	0.321	0.128	0.027
150.0	8.086	5.973	4.504	3.241	2.236	1.460	0.850	0.474	0.177	0.080
152.5	7.253	5.685	4.242	3.112	2.150	1.347	0.824	0.360	0.184	0.050
155.0	6.460	4.957	3.759	2.644	1.768	1.132	0.543	0.295	0.114	0.000
157.5	5.370	4.104	2.899	2.064	1.351	0.674	0.400	0.184	0.000	0.000
160.0	4.069	2.967	2.186	1.431	0.742	0.482	0.244	0.013	0.000	0.000
162.5	2.947	2.122	1.322	0.778	0.524	0.275	0.032	0.000	0.000	0.000
165.0	2.146	1.441	1.066	0.733	0.416	0.115	0.064	0.038	0.017	0.000
167.5	1.592	1.227	0.873	0.529	0.251	0.189	0.131	0.078	0.026	0.000
170.0	1.151	0.808	0.471	0.365	0.288	0.213	0.141	0.070	0.001	0.000
172.5	0.576	0.496	0.417	0.339	0.263	0.187	0.112	0.037	0.000	0.000
175.0	0.453	0.388	0.323	0.258	0.193	0.129	0.064	0.000	0.000	0.000
177.5	0.256	0.217	0.178	0.138	0.099	0.059	0.020	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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1009.800	1008.259	1006.750	1005.275	1003.837	1002.440	1001.085	999.775	998.512	997.299
5.0	993.806	990.744	987.752	984.835	981.997	979.245	976.581	974.012	971.548	969.186
7.5	976.184	971.634	967.197	962.898	958.738	954.708	950.814	947.064	943.463	940.015
10.0	957.646	951.056	945.286	939.677	934.156	928.982	923.910	919.075	914.459	910.043
12.5	936.436	929.156	922.074	915.202	908.646	902.224	896.258	890.410	884.803	880.166
15.0	914.524	905.949	897.805	889.921	882.288	874.916	867.882	861.214	854.822	848.714
17.5	891.271	881.957	872.704	863.734	855.232	847.064	839.196	831.636	824.475	817.662
20.0	861.048	851.185	842.178	833.659	825.668	818.249	810.128	801.896	793.996	786.154
22.5	829.132	818.494	808.440	799.016	790.374	782.362	774.987	767.632	760.793	752.866
25.0	795.703	784.014	773.150	763.016	753.587	744.243	735.508	727.467	720.302	713.884
27.5	760.533	748.039	736.308	724.970	714.131	704.040	694.955	686.667	679.130	672.311
30.0	723.795	712.080	697.188	684.853	673.544	663.186	653.632	644.850	636.881	629.952
32.5	685.138	670.389	656.545	643.942	632.187	621.265	611.197	601.992	593.544	585.899
35.0	644.629	629.364	615.252	602.028	589.690	578.266	567.808	558.191	549.054	541.976
37.5	603.197	587.526	572.782	558.980	546.266	534.565	523.861	514.449	505.808	498.418
40.0	560.617	544.505	529.192	515.290	502.304	490.869	480.371	471.116	462.923	455.595
42.5	516.608	500.299	485.307	471.328	458.957	447.542	437.674	428.514	420.946	414.040
45.0	472.253	456.054	441.361	427.999	416.155	405.325	395.831	387.401	379.933	373.457
47.5	427.863	412.311	397.816	385.396	375.060	364.198	356.262	347.111	339.824	333.997
50.0	384.220	368.919	355.553	343.496	332.969	323.613	315.267	307.911	301.065	295.955
52.5	340.956	326.628	314.054	302.683	292.975	284.494	276.766	270.066	264.697	260.231
55.0	298.566	285.475	272.978	263.313	254.228	246.539	239.992	234.335	229.536	225.065
57.5	257.693	245.299	234.557	225.462	217.347	211.011	205.126	200.421	195.998	192.304
60.0	217.869	206.628	197.574	189.428	183.028	177.384	172.516	168.508	164.707	161.356
62.5	179.434	170.461	162.489	155.941	150.641	146.128	142.291	138.831	135.767	132.703

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CANDELA TABULATION - (Cont.)

65.0	144.018	136.251	129.645	124.773	120.442	117.197	114.457	111.683	109.467	106.368
67.5	110.602	104.882	99.654	95.987	93.076	91.249	89.259	87.711	85.941	83.877
70.0	86.230	75.158	72.238	70.536	69.021	68.112	67.224	66.567	65.288	64.202
72.5	66.017	55.518	47.669	47.591	47.872	47.913	48.401	48.440	48.154	47.643
75.0	48.134	39.542	32.645	28.349	29.701	31.219	32.708	33.502	34.216	34.127
77.5	33.071	26.687	22.047	17.379	14.812	17.858	20.131	21.922	23.113	23.666
80.0	21.078	17.644	14.043	10.368	7.806	7.494	10.385	12.987	14.605	15.797
82.5	13.535	10.992	8.232	6.193	4.318	2.635	3.543	6.425	8.528	10.091
85.0	8.130	6.287	4.779	3.381	2.064	1.011	0.373	1.971	4.430	5.952
87.5	4.441	3.501	2.550	1.577	0.723	0.264	0.000	0.000	1.589	3.044
90.0	2.303	1.787	1.148	0.506	0.185	0.000	0.000	0.000	0.000	1.127
92.5	1.060	0.751	0.342	0.127	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.371	0.199	0.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.065	0.039	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	0.017	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.007	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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	996.137	995.029	993.977	992.983	991.889	991.173	990.360	989.612	988.928	988.310
5.0	966.928	964.780	962.743	960.652	959.018	957.336	955.776	954.343	953.037	951.861
7.5	936.726	933.602	931.844	927.889	925.298	922.882	920.646	918.592	916.724	915.043
10.0	905.832	901.833	898.050	894.488	891.153	888.095	885.279	882.696	880.349	878.240

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CANDELA TABULATION - (Cont.)

12.5	874.459	869.714	865.229	861.008	857.057	853.381	850.481	846.879	844.052	841.510
15.0	842.898	837.398	832.235	827.371	822.811	818.560	814.624	811.007	807.566	804.462
17.5	811.165	804.991	799.146	793.304	787.827	782.744	778.058	773.775	769.899	766.477
20.0	778.497	771.156	764.237	757.748	751.784	746.263	741.173	736.521	732.311	729.804
22.5	744.423	736.569	729.163	722.214	715.728	709.628	703.992	698.827	694.139	689.934
25.0	708.157	701.852	693.798	686.223	679.136	672.474	666.093	660.231	654.896	650.094
27.5	665.660	660.933	656.226	649.459	641.532	634.142	627.311	621.053	615.367	610.262
30.0	623.150	617.334	612.286	608.031	603.588	595.744	588.965	582.065	576.225	570.990
32.5	579.129	573.261	568.131	563.179	560.450	557.770	550.355	543.711	537.782	532.392
35.0	535.135	529.369	524.465	520.276	517.085	514.728	513.056	507.431	500.175	494.713
37.5	491.890	486.155	481.637	477.801	474.717	472.625	471.209	469.688	463.369	457.671
40.0	449.554	444.190	439.796	436.254	433.387	431.404	429.478	429.474	427.129	421.203
42.5	408.184	403.170	398.885	395.640	392.988	391.049	389.895	389.288	389.686	385.282
45.0	367.746	363.190	359.192	356.136	353.731	351.829	350.661	349.983	349.809	349.766
47.5	328.713	324.510	320.950	317.956	315.661	313.772	312.579	311.984	311.834	312.280
50.0	291.365	287.335	284.046	281.089	279.002	277.293	276.041	275.426	275.210	275.439
52.5	255.500	251.647	248.695	246.049	243.924	241.770	240.921	240.107	239.572	239.352
55.0	221.252	217.879	214.962	212.473	210.297	208.641	207.131	205.798	205.149	204.485
57.5	188.692	185.600	182.738	180.514	178.310	176.593	174.924	173.507	172.468	171.497
60.0	157.731	155.096	152.502	150.399	148.270	146.464	144.818	143.170	142.299	141.398
62.5	129.681	126.640	124.417	122.399	120.553	118.748	117.463	115.972	115.362	114.796
65.0	104.284	101.216	98.759	96.901	95.626	93.975	93.387	92.470	92.025	91.849
67.5	81.806	79.091	76.489	74.447	73.908	73.086	72.814	72.512	72.159	72.102
70.0	62.452	60.432	58.164	55.735	55.575	55.591	55.493	55.457	55.102	55.244
72.5	46.384	45.141	43.308	41.762	40.388	40.803	40.811	41.144	40.989	41.187
75.0	33.627	32.983	31.707	30.527	28.551	28.589	28.887	29.391	29.498	29.696
77.5	23.881	23.535	22.777	21.643	20.188	18.738	19.349	19.862	20.204	20.477
80.0	16.398	16.259	15.818	14.826	13.678	12.188	11.652	12.274	12.947	13.281
82.5	10.776	10.877	10.522	9.659	8.661	7.259	6.125	6.562	7.256	7.505
85.0	6.684	6.895	6.558	5.860	5.012	3.991	2.949	2.225	3.259	3.908
87.5	3.806	4.003	3.703	3.256	2.526	1.672	0.932	0.426	1.041	1.842
90.0	1.851	2.038	1.903	1.498	0.816	0.487	0.124	0.057	0.090	0.681
92.5	0.657	0.862	0.759	0.452	0.205	0.065	0.006	0.000	0.000	0.143
95.0	0.049	0.238	0.197	0.055	0.029	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.019	0.019	0.009	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

IES INDOOR REPORT
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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. Horizontal Angles
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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	987.759	987.276	986.862	986.517	986.241	986.036	985.900	985.835	985.841	985.917
5.0	950.816	949.904	949.125	948.482	947.974	947.602	947.366	947.267	947.304	947.477
7.5	913.552	912.252	911.146	910.234	909.518	908.999	908.556	908.550	908.622	908.890
10.0	876.372	874.748	873.370	872.239	871.356	870.722	870.339	870.206	870.324	870.692
12.5	839.236	837.289	835.616	834.238	833.157	832.376	831.894	831.714	831.837	832.262
15.0	801.719	799.339	797.323	795.673	794.390	793.472	792.921	792.736	792.915	793.457
17.5	763.298	760.845	758.640	756.843	755.457	754.482	753.918	753.764	754.021	754.687
20.0	725.121	722.164	719.660	717.611	715.956	714.891	714.223	714.018	714.275	714.994
22.5	686.084	682.653	679.729	677.319	675.425	674.051	673.199	672.871	673.067	673.789
25.0	646.466	642.157	639.034	636.470	634.467	633.030	632.158	631.854	632.117	632.948
27.5	605.742	601.911	598.718	596.113	594.099	592.680	591.857	591.632	592.004	592.974
30.0	566.367	562.399	559.131	556.459	554.389	552.928	552.080	551.850	552.242	553.259
32.5	527.711	523.589	520.204	517.431	515.268	513.724	512.807	512.527	512.890	513.901
35.0	489.844	485.580	481.980	479.025	476.698	475.009	473.968	473.587	473.875	474.839
37.5	452.570	448.081	444.254	441.128	438.646	436.823	435.670	435.198	435.417	436.338
40.0	415.884	411.053	407.809	403.772	401.059	399.018	397.664	397.012	397.075	397.868
42.5	379.680	374.699	370.358	366.815	363.940	361.730	360.203	359.380	359.279	359.917
45.0	344.244	339.106	334.400	330.787	327.672	325.210	323.427	322.348	321.997	322.396
47.5	309.861	304.317	299.710	295.566	292.118	289.363	287.325	286.024	285.482	285.718
50.0	276.127	270.434	265.284	260.820	257.114	254.123	251.869	250.373	249.657	249.740
52.5	239.608	236.820	231.387	227.163	222.900	219.882	217.620	216.067	215.434	215.539
55.0	204.313	204.066	198.598	193.846	190.292	187.484	185.387	184.023	183.409	183.564
57.5	171.010	171.106	167.898	163.438	160.128	157.546	155.675	154.407	153.817	153.932
60.0	140.771	140.987	140.039	135.974	132.909	130.687	129.005	127.895	127.387	127.512
62.5	114.285	114.558	114.959	111.812	108.972	106.977	105.476	104.499	104.074	104.227
65.0	91.490	91.686	91.986	90.427	87.815	86.114	84.860	84.079	83.795	84.034
67.5	71.804	71.844	72.093	71.707	69.878	68.061	67.090	66.442	66.324	66.641
70.0	55.071	55.000	55.277	55.464	53.780	52.793	52.080	51.665	51.580	51.859
72.5	41.179	41.079	41.466	41.760	41.035	40.160	39.566	39.204	39.107	39.312
75.0	29.892	29.902	30.313	30.621	30.473	29.597	29.036	28.715	28.655	28.878
77.5	20.879	20.994	21.203	21.293	21.250	20.584	20.237	20.050	20.051	20.266
80.0	13.608	13.610	13.758	13.892	13.812	13.460	13.256	13.164	13.208	13.417
82.5	8.082	8.304	8.355	8.457	8.264	7.936	7.777	7.697	7.694	7.872
85.0	4.456	4.730	4.673	4.505	4.085	3.556	3.580	3.597	3.637	3.733
87.5	2.228	2.300	2.050	1.804	1.409	0.875	1.004	1.099	1.094	1.040
90.0	0.850	0.824	0.543	0.400	0.244	0.032	0.064	0.129	0.141	0.112
92.5	0.175	0.162	0.057	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

IES INDOOR REPORT
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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	0.051	0.044
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.066	0.114	0.173	0.180
135.0	0.000	0.000	0.000	0.000	0.000	0.008	0.105	0.161	0.180	0.180
137.5	0.000	0.000	0.000	0.000	0.000	0.003	0.021	0.082	0.172	0.133
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.025	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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	986.063	986.278	986.563	986.278	986.063	985.917	985.841	985.835	985.900	986.036
5.0	947.785	948.228	948.805	948.228	947.785	947.477	947.304	947.267	947.366	947.602
7.5	909.354	910.014	910.867	910.014	909.354	908.890	908.622	908.550	908.676	908.999
10.0	871.309	872.175	873.289	872.175	871.309	870.692	870.324	870.206	870.339	870.722
12.5	832.990	834.020	835.351	834.020	832.990	832.262	831.972	831.714	831.894	832.376
15.0	794.358	795.618	797.233	795.618	794.358	793.457	792.915	792.736	792.921	793.472
17.5	755.759	757.237	759.116	757.237	755.759	754.782	754.021	753.764	754.053	754.482
20.0	716.176	717.818	719.919	717.818	716.176	714.994	714.275	714.018	714.223	714.891
22.5	675.037	676.809	679.105	676.809	675.037	673.789	673.067	672.871	673.199	674.051
25.0	634.345	636.306	638.829	636.306	634.345	632.948	632.117	631.854	632.158	633.030
27.5	594.338	596.701	599.453	596.701	594.540	592.974	592.004	591.632	591.857	592.680
30.0	554.903	557.175	560.077	557.175	555.119	553.259	552.242	551.850	552.080	552.928
32.5	515.568	517.893	520.881	517.893	515.568	513.901	512.890	512.527	512.807	513.724
35.0	476.488	478.828	481.864	478.828	476.488	474.839	473.875	473.587	473.968	475.009
37.5	437.968	440.316	443.387	440.316	437.968	436.338	435.417	435.198	435.670	436.823
40.0	399.400	401.685	404.730	401.685	399.400	397.868	397.075	397.012	397.664	399.018
42.5	361.313	363.479	366.432	363.479	361.313	360.047	359.279	359.380	360.384	361.730
45.0	323.569	325.535	328.315	325.535	323.569	322.396	321.997	322.348	323.427	325.210

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

47.5	286.752	288.600	291.276	288.600	286.752	285.718	285.482	286.024	287.325	289.363
50.0	250.640	252.373	254.956	252.373	250.640	249.740	249.657	250.373	251.869	254.123
52.5	216.460	218.209	220.794	218.209	216.460	215.539	215.434	216.133	217.620	219.882
55.0	184.503	186.241	188.790	186.241	184.503	183.564	183.409	184.022	185.387	187.484
57.5	154.779	156.382	158.763	156.382	154.779	153.932	153.817	154.408	155.675	157.592
60.0	128.300	129.778	131.973	129.778	128.300	127.512	127.387	127.895	129.005	130.687
62.5	104.986	106.375	108.419	106.375	104.986	104.227	104.074	104.499	105.476	106.977
65.0	84.817	86.084	88.102	86.167	84.817	84.034	83.795	84.079	84.860	86.114
67.5	67.420	68.692	70.482	68.692	67.425	66.657	66.362	66.515	67.090	68.061
70.0	52.534	53.637	55.199	53.700	52.534	51.859	51.580	51.665	52.080	52.793
72.5	39.851	40.761	42.073	40.761	39.851	39.312	39.107	39.204	39.566	40.160
75.0	29.408	30.263	31.465	30.263	29.408	28.878	28.655	28.715	29.036	29.597
77.5	20.724	21.452	22.475	21.452	20.724	20.266	20.051	20.050	20.237	20.584
80.0	13.814	14.428	15.283	14.428	13.814	13.417	13.208	13.164	13.256	13.460
82.5	8.177	8.662	9.350	8.662	8.177	7.872	7.720	7.697	7.777	7.936
85.0	3.915	4.217	4.675	4.217	3.915	3.733	3.637	3.597	3.580	3.556
87.5	0.987	0.983	1.079	0.983	0.987	1.040	1.094	1.099	1.014	0.875
90.0	0.064	0.020	0.000	0.020	0.064	0.112	0.141	0.131	0.064	0.032
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	0.044	0.051	0.000	0.004	0.000
132.5	0.096	0.000	0.000	0.000	0.096	0.180	0.173	0.114	0.066	0.000
135.0	0.180	0.127	0.000	0.127	0.180	0.180	0.180	0.161	0.105	0.008
137.5	0.059	0.000	0.000	0.000	0.059	0.133	0.172	0.082	0.021	0.003
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.025	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
PHOTOMETRIC FILENAME : MCNL48HFA40.IES

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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	986.241	986.517	986.862	987.276	987.759	988.310	988.928	989.612	990.360	991.173
5.0	947.974	948.501	949.125	949.904	950.816	951.861	953.037	954.343	955.776	957.336
7.5	909.518	910.234	911.146	912.252	913.552	915.043	916.724	918.592	920.646	922.882
10.0	871.356	872.239	873.370	874.748	876.372	878.240	880.349	882.894	885.279	888.095
12.5	833.323	834.238	835.616	837.289	839.254	841.510	844.052	846.879	850.481	853.381
15.0	794.390	795.673	797.323	799.339	801.719	804.462	807.566	811.007	814.624	818.560
17.5	755.457	756.910	758.640	760.845	763.459	766.477	769.899	773.775	778.058	782.744
20.0	716.021	717.611	719.660	722.164	725.121	729.804	732.311	736.521	741.173	746.263
22.5	675.425	677.319	679.729	682.653	686.084	689.934	694.139	698.887	703.992	709.628
25.0	634.467	636.477	639.034	642.157	646.466	650.094	654.896	660.231	666.093	672.474
27.5	594.099	596.113	598.718	601.911	605.742	610.262	615.367	621.295	627.311	634.142
30.0	554.389	556.459	559.131	562.399	566.367	570.990	576.225	582.065	588.975	595.744
32.5	515.268	517.431	520.204	523.589	527.711	532.445	537.782	543.757	550.355	557.778
35.0	476.698	479.025	481.980	485.580	489.844	494.713	500.175	507.431	513.083	514.728
37.5	438.646	441.128	444.254	448.081	452.570	457.671	463.369	469.688	471.209	473.254
40.0	401.059	403.772	407.809	411.190	415.884	421.203	427.129	429.474	430.123	431.404
42.5	363.940	366.883	370.358	374.699	379.680	385.282	389.686	389.288	389.894	391.641
45.0	327.672	330.787	334.584	339.106	344.244	349.972	349.809	349.983	350.661	351.829
47.5	292.118	295.566	299.710	304.493	309.861	312.280	312.149	311.984	312.579	313.892
50.0	257.114	260.820	265.284	270.434	276.260	275.439	275.210	275.426	276.041	277.293
52.5	222.900	227.163	231.387	236.820	239.608	239.352	239.572	240.107	240.921	242.268
55.0	190.292	193.846	198.598	204.066	204.313	204.485	205.149	206.010	207.131	208.641
57.5	160.128	163.438	167.898	171.106	171.009	171.497	172.468	173.507	174.924	176.593
60.0	132.909	135.974	140.039	140.987	140.771	141.398	142.299	143.170	144.818	146.464
62.5	108.972	111.812	114.959	114.558	114.285	114.796	115.362	115.972	117.463	118.748
65.0	87.815	90.427	91.986	91.686	91.490	91.849	92.025	92.470	93.387	93.975
67.5	69.878	71.707	72.093	71.844	71.804	72.102	72.159	72.512	72.814	73.086
70.0	53.780	55.464	55.277	55.130	55.071	55.244	55.102	55.457	55.493	55.591
72.5	41.035	41.760	41.466	41.079	41.179	41.187	40.989	41.144	40.940	40.803
75.0	30.473	30.621	30.313	29.902	29.892	29.696	29.498	29.391	28.887	28.589
77.5	21.250	21.293	21.203	20.994	20.879	20.477	20.204	19.862	19.349	18.738
80.0	13.812	13.892	13.758	13.610	13.608	13.281	12.947	12.274	11.652	12.188
82.5	8.264	8.457	8.391	8.304	8.082	7.505	7.256	6.562	6.125	7.259
85.0	4.085	4.505	4.673	4.730	4.456	3.908	3.259	2.225	2.949	3.991
87.5	1.409	1.804	2.050	2.313	2.228	1.842	1.041	0.426	0.932	1.672
90.0	0.244	0.400	0.543	0.824	0.850	0.681	0.090	0.057	0.124	0.487
92.5	0.000	0.000	0.057	0.162	0.175	0.143	0.000	0.000	0.006	0.065
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : MCNL48HFA40.IES

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
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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	992.047	993.050	993.977	995.029	996.137	997.299	998.512	999.775	1001.085	1002.440
5.0	959.018	960.822	962.743	964.780	966.928	969.186	971.548	974.012	976.581	979.245
7.5	925.298	927.889	931.864	933.602	936.726	940.015	943.463	947.064	950.815	954.708
10.0	891.153	894.488	898.050	901.833	905.832	910.043	914.459	919.075	923.910	928.982
12.5	857.057	861.008	865.229	869.714	874.459	880.166	884.803	890.410	896.258	902.339
15.0	822.811	827.371	832.235	837.398	843.036	848.714	854.822	861.214	867.882	874.916
17.5	787.827	793.304	799.146	804.991	811.165	817.662	824.475	831.636	839.196	847.064
20.0	751.784	757.748	764.237	771.156	778.497	786.255	793.996	801.896	810.128	818.249
22.5	715.728	722.214	729.163	736.569	744.423	752.866	760.793	767.632	774.987	782.575
25.0	679.136	686.223	693.798	701.852	708.157	713.884	720.302	727.467	735.508	744.243
27.5	641.532	649.459	656.226	660.933	666.241	672.311	679.130	686.667	694.955	704.040
30.0	603.588	608.031	612.287	617.334	623.150	629.952	636.881	644.850	653.632	663.186
32.5	560.450	563.806	568.131	573.261	579.129	585.899	593.544	601.992	611.197	621.265
35.0	517.747	520.276	524.465	529.369	535.544	541.976	549.577	558.191	567.808	578.266
37.5	474.717	477.801	481.637	486.155	491.890	498.418	505.808	514.449	523.861	534.565
40.0	433.387	436.254	439.796	444.190	449.554	455.594	462.923	471.116	480.372	490.869
42.5	392.988	395.640	398.885	403.170	408.184	414.040	421.528	428.514	437.674	447.541
45.0	353.731	356.136	359.192	363.190	367.746	373.457	379.933	387.401	395.831	405.325
47.5	315.661	317.956	320.950	324.510	328.713	333.997	339.824	347.111	356.262	364.198
50.0	279.002	281.089	284.046	287.335	291.365	295.955	301.435	307.911	315.267	323.612
52.5	243.924	246.049	248.908	251.647	255.500	260.665	264.697	270.066	276.766	284.494
55.0	210.297	212.473	214.962	217.879	221.252	225.065	229.536	234.335	239.992	246.539
57.5	178.310	180.514	182.738	185.600	188.692	192.304	195.998	200.421	205.126	211.011
60.0	148.270	150.399	152.502	155.096	157.731	161.356	164.707	168.508	172.516	177.384
62.5	120.553	122.399	124.417	126.640	129.681	132.703	135.767	138.830	142.291	146.128
65.0	95.626	96.901	98.759	101.216	104.284	106.754	109.467	111.683	114.457	117.197
67.5	73.908	74.447	76.489	79.091	81.805	83.877	85.941	88.087	89.259	91.249
70.0	55.575	55.943	58.164	60.432	62.452	64.202	65.288	66.567	67.224	68.112
72.5	40.388	41.762	43.308	45.141	46.388	47.643	48.154	48.440	48.716	47.913
75.0	28.551	30.527	31.802	32.983	33.627	34.127	34.216	33.502	32.708	31.219
77.5	20.188	21.643	22.777	23.535	23.881	23.734	23.113	21.922	20.131	17.858

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

80.0	13.678	14.826	15.818	16.282	16.398	15.797	14.605	12.987	10.522	7.494
82.5	8.667	9.659	10.522	10.877	10.776	10.091	8.528	6.425	3.543	2.635
85.0	5.012	5.860	6.558	6.895	6.684	5.952	4.430	1.971	0.373	1.011
87.5	2.526	3.256	3.703	4.003	3.806	3.044	1.589	0.000	0.000	0.264
90.0	0.816	1.498	1.903	2.038	1.851	1.127	0.000	0.000	0.000	0.000
92.5	0.205	0.452	0.759	0.862	0.657	0.000	0.000	0.000	0.000	0.000
95.0	0.029	0.055	0.197	0.245	0.049	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.009	0.019	0.019	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. 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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1003.837	1005.275	1006.750	1008.259	1009.800	1011.370	1012.966	1014.585	1017.054	1017.874
5.0	981.997	984.835	987.752	990.744	993.806	996.931	1000.114	1003.349	1006.630	1009.954
7.5	958.738	962.898	967.197	971.683	976.184	980.838	985.587	990.423	995.337	1000.320
10.0	934.240	939.677	945.286	951.056	957.646	963.116	969.399	975.809	982.335	988.965
12.5	908.646	915.202	922.074	929.155	936.436	943.904	951.577	959.523	967.626	975.980
15.0	882.288	889.921	897.805	905.949	914.524	923.333	932.364	942.298	951.226	961.052
17.5	855.232	863.734	872.704	881.957	891.271	900.408	910.101	920.163	932.104	941.509
20.0	825.668	833.659	842.178	851.287	861.048	871.284	881.999	893.456	905.337	918.718
22.5	790.374	799.016	808.440	818.494	829.132	840.498	852.445	866.554	878.178	891.959
25.0	753.587	763.016	773.150	784.015	795.703	808.044	821.095	834.835	849.152	864.324

**IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

27.5	714.131	724.970	736.308	748.039	760.533	773.910	788.293	802.912	818.518	836.545
30.0	673.544	684.853	697.188	712.080	723.795	738.053	753.206	769.216	785.999	803.534
32.5	632.187	643.942	656.545	670.389	685.138	700.514	716.622	733.655	751.613	770.382
35.0	589.690	602.028	615.252	629.452	644.629	661.049	678.275	696.304	715.302	734.756
37.5	546.266	559.375	572.782	587.526	603.197	619.947	637.895	656.355	675.560	695.588
40.0	502.303	515.290	529.192	544.505	560.617	577.450	595.211	614.382	634.364	655.135
42.5	458.956	471.328	485.307	500.298	516.608	533.883	552.709	571.310	591.956	613.430
45.0	416.155	427.999	441.361	456.054	472.253	489.667	508.219	527.851	548.445	570.529
47.5	375.060	385.396	397.816	412.311	427.863	445.241	463.757	483.548	504.515	526.523
50.0	332.969	343.495	355.553	368.919	384.221	400.676	419.195	438.797	459.774	482.038
52.5	292.975	302.683	314.054	326.628	340.956	357.034	375.737	394.022	414.685	436.781
55.0	254.228	263.313	273.488	285.475	298.566	313.814	330.677	349.127	369.616	391.799
57.5	217.347	225.462	234.557	245.299	257.693	271.300	287.413	305.057	324.443	345.850
60.0	183.028	189.428	197.574	206.628	217.869	230.628	245.287	261.655	281.602	309.612
62.5	150.641	155.941	162.489	170.461	179.434	191.756	204.190	224.374	248.653	275.785
65.0	120.442	124.773	129.645	136.251	144.018	153.934	170.708	192.802	216.471	242.780
67.5	93.076	95.987	99.654	104.882	110.602	124.960	143.321	164.256	186.564	212.057
70.0	69.021	70.536	72.238	75.158	86.230	101.316	118.192	137.214	158.288	180.758
72.5	47.872	47.591	47.669	55.518	66.017	78.927	94.449	111.866	131.486	152.659
75.0	29.701	28.349	32.645	39.542	48.300	58.700	71.978	88.045	105.884	126.031
77.5	14.812	17.379	22.048	26.687	33.071	41.418	51.715	65.305	81.683	100.134
80.0	7.806	10.368	14.043	17.644	21.078	26.877	34.794	44.982	58.826	75.601
82.5	4.318	6.193	8.232	10.992	13.536	15.719	20.869	28.349	38.417	52.454
85.0	2.064	3.381	4.779	6.331	8.130	9.611	10.524	14.972	22.009	31.932
87.5	0.723	1.577	2.553	3.501	4.441	5.379	5.784	5.423	9.126	15.704
90.0	0.185	0.509	1.148	1.787	2.303	2.649	2.680	1.995	0.360	9.126
92.5	0.000	0.127	0.342	0.751	1.060	1.143	0.880	0.000	1.995	5.416
95.0	0.000	0.000	0.081	0.199	0.371	0.349	0.000	0.886	2.680	5.768
97.5	0.000	0.000	0.000	0.039	0.065	0.000	0.361	1.153	2.649	5.349
100.0	0.000	0.000	0.000	0.000	0.001	0.072	0.384	1.074	2.303	4.402
102.5	0.000	0.000	0.000	0.000	0.000	0.044	0.214	0.766	1.787	3.437
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.362	1.148	2.486
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.138	0.506	1.518
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.185	0.644
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.227
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	1.306
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.136	1.127	2.703
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.229	0.822	1.851	3.375
127.5	0.000	0.000	0.000	0.000	0.013	0.113	0.450	1.066	2.038	3.525
130.0	0.000	0.000	0.000	0.001	0.017	0.113	0.343	0.976	1.903	3.217
132.5	0.000	0.000	0.000	0.000	0.007	0.042	0.234	0.588	1.498	2.695
135.0	0.000	0.000	0.000	0.000	0.000	0.017	0.069	0.364	0.816	1.978
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.031	0.098	0.487	1.040
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045	0.124	0.585
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.057	0.146
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090	0.562
147.5	0.000	0.000	0.000	0.000	0.000	0.027	0.128	0.321	0.680	1.206
150.0	0.000	0.000	0.000	0.000	0.007	0.080	0.177	0.467	0.850	1.460
152.5	0.000	0.000	0.000	0.000	0.000	0.050	0.183	0.360	0.824	1.347
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.114	0.295	0.543	1.132
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.184	0.400	0.674
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013	0.244	0.482
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.032	0.275
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.017	0.038	0.064	0.115

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CANDELA TABULATION - (Cont.)

167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026	0.077	0.129	0.189
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001	0.070	0.141	0.213
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037	0.112	0.187
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.064	0.129
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.059
180.0	0.000	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>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1019.534	1021.204	1022.880	1024.561	1026.242	1027.920	1029.592	1031.255	1032.904	1034.538
5.0	1013.284	1016.645	1020.025	1023.419	1026.820	1030.221	1033.615	1036.994	1040.353	1043.683
7.5	1005.346	1010.405	1015.503	1020.632	1025.780	1030.937	1036.093	1042.423	1046.454	1051.665
10.0	995.739	1002.438	1009.255	1016.125	1023.035	1029.971	1036.962	1044.110	1051.235	1058.321
12.5	984.252	992.711	1001.234	1009.839	1018.511	1028.465	1036.240	1045.414	1054.350	1063.366
15.0	971.049	981.475	991.405	1001.724	1012.143	1022.682	1033.645	1044.641	1055.647	1066.661
17.5	952.775	964.322	976.099	988.228	1000.282	1012.713	1025.650	1038.716	1051.881	1065.208
20.0	930.442	943.617	958.013	970.916	984.995	999.452	1014.163	1029.187	1044.367	1059.808
22.5	906.205	920.960	936.100	951.641	967.581	983.976	1000.505	1017.455	1034.637	1052.156
25.0	880.078	896.338	913.063	930.216	947.950	966.096	984.605	1003.430	1022.541	1042.105
27.5	852.068	869.721	887.998	906.731	926.041	946.022	966.683	987.041	1009.414	1029.527
30.0	821.765	841.010	860.885	881.144	901.911	923.554	945.804	968.244	990.979	1014.323
32.5	789.898	810.220	831.541	852.901	874.660	897.267	920.971	945.198	969.745	994.988
35.0	754.712	775.397	797.023	819.711	843.112	867.266	892.528	918.703	945.294	972.511
37.5	716.453	738.623	760.627	784.316	809.555	834.751	861.367	889.245	917.825	946.998
40.0	676.753	699.221	722.615	746.928	772.749	799.603	827.703	856.924	887.245	918.267
42.5	635.738	658.914	682.941	708.084	734.265	762.178	791.311	821.801	853.555	886.269
45.0	593.458	617.260	641.944	668.283	694.374	723.062	752.412	783.978	816.877	851.002
47.5	549.995	574.330	599.561	625.685	652.759	681.299	711.537	744.367	782.262	820.885
50.0	505.428	530.220	555.900	582.478	609.952	641.607	676.579	713.299	751.182	790.355
52.5	460.305	485.018	511.044	541.240	574.648	608.770	644.033	680.404	718.486	757.847
55.0	414.430	441.008	473.306	506.443	540.267	574.741	609.983	646.569	684.323	723.398
57.5	374.344	405.397	437.771	470.877	504.767	539.511	574.953	612.153	648.915	687.817
60.0	339.349	370.044	401.786	434.877	468.669	503.172	538.716	575.012	612.189	650.749
62.5	306.142	334.786	366.138	398.590	432.097	466.439	501.500	537.610	574.622	612.589
65.0	270.492	299.815	330.524	362.414	395.239	429.192	463.933	499.414	535.906	573.471
67.5	237.336	265.540	295.070	326.356	358.649	391.818	425.916	460.894	497.885	542.330
70.0	205.818	232.149	260.738	290.592	322.070	354.617	387.954	424.861	466.000	507.698
72.5	175.226	199.531	227.043	255.892	285.930	317.454	354.084	393.599	433.803	474.874
75.0	147.224	169.812	194.153	221.838	250.804	285.719	323.405	362.199	401.691	441.751
77.5	120.729	141.840	164.355	188.672	221.758	256.930	293.232	330.840	369.507	408.713
80.0	94.497	115.457	136.371	164.361	194.892	228.697	263.822	299.996	337.373	375.676
82.5	69.579	88.844	115.509	142.205	170.791	201.408	235.043	269.938	305.792	342.781
85.0	46.098	69.614	94.729	121.230	148.091	176.753	207.269	240.606	275.072	310.403
87.5	31.947	52.517	75.784	100.504	126.597	153.507	182.070	212.292	245.202	279.024
90.0	22.009	38.418	58.826	81.683	105.884	131.378	158.288	186.564	216.471	248.653
92.5	14.937	28.223	44.692	64.875	87.202	110.751	135.782	162.266	190.060	219.578
95.0	10.468	20.663	34.255	50.671	70.566	92.241	114.992	139.378	165.272	198.681
97.5	9.502	15.510	26.227	40.016	56.260	75.807	96.712	118.508	147.050	182.763
100.0	7.976	13.139	20.213	31.538	45.413	61.666	80.510	103.907	134.574	168.484
102.5	6.118	10.511	16.592	24.765	36.488	50.348	68.554	95.814	124.765	155.715
105.0	4.527	7.761	12.812	19.749	28.931	42.482	64.178	88.766	115.812	144.367
107.5	3.152	5.532	9.279	14.993	23.670	40.944	60.875	82.861	107.829	134.509
110.0	1.863	3.754	6.395	11.710	24.512	39.661	57.867	78.193	100.640	125.521
112.5	0.748	2.161	5.402	13.861	25.160	38.849	54.910	73.675	94.195	117.075

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CANDELA TABULATION - (Cont.)

115.0	0.257	2.076	8.075	15.832	25.481	37.822	52.191	69.099	88.117	108.802
117.5	1.357	4.941	9.912	16.905	25.627	36.384	49.463	64.294	81.866	100.934
120.0	3.601	6.895	11.394	17.244	25.140	34.575	46.277	59.830	75.336	92.943
122.5	4.967	8.074	12.151	17.417	24.106	32.591	42.579	54.916	68.658	84.679
125.0	5.560	8.448	12.139	16.997	22.723	30.256	39.056	49.656	62.045	76.108
127.5	5.520	8.248	11.649	15.918	21.290	27.638	35.512	44.318	55.367	67.404
130.0	5.099	7.583	10.682	14.457	19.212	24.872	31.701	39.686	48.808	60.641
132.5	4.310	6.503	9.260	12.767	16.875	21.894	27.580	34.763	44.053	55.023
135.0	3.394	5.267	7.658	10.711	14.398	18.680	24.153	31.599	40.192	49.702
137.5	2.375	3.943	6.028	8.481	11.764	16.437	22.340	28.809	36.403	44.445
140.0	1.201	2.645	4.382	7.069	10.828	15.316	20.327	26.243	32.649	39.909
142.5	0.639	1.794	4.116	6.927	10.294	14.072	18.501	23.583	29.084	35.481
145.0	1.277	2.551	4.257	6.608	9.608	12.944	16.824	21.153	25.928	31.206
147.5	1.986	3.007	4.442	6.385	8.622	11.741	15.043	18.823	22.910	27.253
150.0	2.236	3.241	4.504	5.973	8.086	10.361	13.226	16.541	20.213	23.972
152.5	2.139	3.112	4.242	5.685	7.253	9.263	11.608	14.081	17.228	20.601
155.0	1.768	2.644	3.759	4.957	6.460	8.118	10.025	12.170	14.618	17.159
157.5	1.351	2.064	2.899	4.104	5.370	6.742	8.431	10.193	12.028	14.320
160.0	0.742	1.431	2.186	2.963	4.069	5.354	6.683	8.105	9.783	11.451
162.5	0.524	0.778	1.322	2.122	2.947	3.785	4.961	6.212	7.462	8.707
165.0	0.416	0.728	1.066	1.441	2.146	2.912	3.685	4.464	5.385	6.487
167.5	0.251	0.529	0.873	1.227	1.592	1.968	2.581	3.257	3.954	4.642
170.0	0.288	0.365	0.471	0.808	1.151	1.498	1.846	2.209	2.572	3.076
172.5	0.263	0.339	0.417	0.496	0.576	0.787	1.087	1.388	1.690	1.992
175.0	0.193	0.258	0.323	0.388	0.453	0.518	0.584	0.649	0.715	0.790
177.5	0.099	0.138	0.178	0.217	0.256	0.294	0.333	0.371	0.408	0.446
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>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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1036.151	1037.742	1039.307	1040.843	1042.347	1043.815	1045.396	1046.632	1047.976	1049.273
5.0	1046.978	1050.238	1053.505	1056.712	1059.853	1062.920	1065.908	1068.808	1071.614	1074.321
7.5	1056.825	1061.924	1066.948	1071.887	1076.728	1081.460	1086.085	1090.704	1095.313	1099.499
10.0	1065.350	1072.306	1079.200	1086.126	1092.930	1099.596	1106.106	1112.443	1118.592	1124.518
12.5	1072.350	1081.395	1090.347	1099.184	1107.884	1116.402	1124.481	1132.349	1139.980	1147.353
15.0	1077.731	1088.739	1099.660	1110.420	1120.809	1131.015	1141.006	1150.750	1160.046	1169.017
17.5	1078.596	1091.984	1105.256	1118.313	1131.233	1143.972	1155.779	1167.137	1178.235	1189.582
20.0	1075.324	1090.867	1106.323	1121.705	1136.903	1151.373	1165.641	1180.741	1192.872	1205.685
22.5	1069.802	1087.578	1105.417	1123.220	1140.213	1156.977	1173.464	1189.190	1204.599	1219.444
25.0	1061.858	1081.965	1102.235	1122.165	1141.388	1161.744	1178.907	1197.017	1214.507	1231.213
27.5	1051.335	1073.764	1096.479	1118.532	1140.115	1161.392	1182.172	1202.635	1222.245	1243.063
30.0	1038.106	1062.733	1087.867	1112.152	1136.084	1159.593	1182.864	1205.561	1227.815	1249.105
32.5	1020.939	1047.667	1075.087	1101.908	1128.469	1154.502	1180.430	1205.410	1230.201	1253.471
35.0	1000.617	1029.403	1059.004	1088.390	1117.502	1146.099	1174.662	1201.838	1228.654	1254.141
37.5	977.045	1007.857	1039.469	1071.335	1102.872	1134.071	1166.682	1194.576	1223.491	1251.056
40.0	950.127	982.905	1016.391	1052.389	1084.320	1118.144	1151.504	1183.356	1214.470	1243.898
42.5	919.839	954.635	989.731	1025.550	1061.683	1099.458	1135.842	1170.995	1204.986	1236.460
45.0	886.938	925.610	964.787	1004.142	1043.660	1082.814	1121.115	1158.569	1193.902	1227.423
47.5	859.998	899.800	940.126	980.906	1021.703	1062.274	1102.474	1141.448	1178.520	1214.184
50.0	830.365	871.006	914.115	954.046	996.023	1038.112	1079.424	1119.796	1159.097	1196.338
52.5	798.201	839.452	881.393	923.905	966.861	1009.768	1052.361	1094.391	1134.754	1173.819
55.0	763.997	805.423	847.647	890.691	934.149	977.892	1021.849	1065.578	1107.894	1148.553
57.5	727.818	769.249	811.549	854.594	898.829	945.027	990.467	1035.006	1077.657	1118.615
60.0	690.536	731.325	773.193	819.174	865.478	911.504	956.857	1001.188	1044.343	1085.850

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CANDELA TABULATION - (Cont.)

62.5	651.726	694.047	739.253	784.820	830.700	876.260	921.245	965.408	1008.298	1049.804
65.0	616.405	660.256	704.795	749.658	794.689	839.678	884.124	927.746	970.365	1011.503
67.5	583.226	626.409	669.749	713.640	757.845	801.998	845.795	888.792	930.739	974.518
70.0	549.779	592.206	634.742	677.299	720.294	763.513	806.467	848.792	893.889	940.505
72.5	516.309	557.895	599.429	641.154	682.640	724.497	766.390	812.229	860.353	906.467
75.0	482.530	523.463	564.327	604.972	645.423	685.535	730.605	779.326	828.278	872.384
77.5	448.447	488.713	528.926	569.281	608.328	651.547	699.392	747.050	793.462	838.392
80.0	414.416	453.646	493.182	532.479	574.717	622.352	669.237	715.409	760.863	805.570
82.5	380.512	418.565	457.107	498.126	546.009	592.827	639.317	684.506	728.893	771.841
85.0	346.850	383.799	422.199	469.898	517.080	563.599	609.250	653.865	697.414	739.846
87.5	313.623	349.375	395.636	442.997	488.242	533.889	578.957	623.015	665.942	707.756
90.0	281.602	324.443	369.616	414.685	459.774	504.515	548.445	591.956	634.364	675.560
92.5	258.466	300.923	344.330	388.104	431.729	475.530	518.632	560.982	602.538	643.249
95.0	238.341	279.030	320.120	362.443	404.609	446.956	489.049	530.575	571.243	610.512
97.5	220.267	258.656	297.969	338.037	378.656	420.578	460.001	500.247	540.226	578.554
100.0	203.315	239.784	277.366	315.152	354.122	392.866	431.971	470.757	509.294	546.785
102.5	188.541	222.333	258.148	294.333	331.106	368.240	405.394	442.675	479.340	515.761
105.0	175.145	207.033	240.230	274.697	309.190	345.123	381.047	415.926	450.834	485.922
107.5	162.907	192.994	223.776	256.366	289.279	323.206	356.935	390.542	423.849	457.370
110.0	151.698	179.924	209.071	239.309	270.447	302.275	334.228	366.305	398.265	430.095
112.5	141.612	167.564	195.078	223.353	252.783	282.280	312.630	342.935	373.547	403.940
115.0	131.761	155.392	181.642	208.165	235.799	263.616	292.135	320.615	349.775	378.627
117.5	121.935	144.438	168.417	193.484	219.222	245.564	272.421	299.500	326.907	354.157
120.0	112.033	132.977	154.952	178.809	203.068	227.988	253.140	278.763	304.636	330.479
122.5	102.054	121.296	142.201	164.410	187.112	210.646	234.314	258.483	282.708	307.087
125.0	92.001	110.004	129.717	150.253	171.561	193.474	215.733	238.465	261.208	283.914
127.5	82.655	98.908	117.417	136.146	156.064	176.400	197.284	218.058	240.398	261.486
130.0	74.043	89.205	105.427	122.465	140.687	160.148	178.774	198.518	218.490	238.716
132.5	66.759	80.003	93.990	109.443	125.659	142.515	160.345	178.402	196.915	215.686
135.0	60.144	71.577	83.704	97.343	111.352	126.560	142.394	158.961	175.442	192.573
137.5	53.907	63.787	74.677	86.247	98.324	111.753	125.428	139.654	154.743	169.907
140.0	47.902	56.435	66.082	76.036	86.813	98.196	109.805	122.386	135.041	148.474
142.5	42.162	49.804	57.931	66.429	75.959	85.699	95.759	106.647	117.649	128.359
145.0	36.884	43.537	50.270	57.799	65.800	73.979	82.838	92.093	101.436	108.532
147.5	32.397	37.697	43.399	49.824	56.395	63.060	70.882	78.601	84.637	90.867
150.0	28.112	32.389	37.441	42.596	47.843	53.809	59.810	64.844	69.780	75.222
152.5	24.079	27.966	31.899	36.141	40.631	45.017	49.048	53.006	57.269	61.662
155.0	20.236	23.534	26.901	30.241	33.500	36.720	39.893	43.129	46.660	50.102
157.5	16.748	19.086	21.428	24.136	26.794	29.400	31.994	34.758	37.515	40.205
160.0	13.112	14.870	16.920	18.927	20.907	23.071	25.099	27.335	29.507	31.613
162.5	10.118	11.599	13.065	14.516	16.013	17.659	19.354	21.011	22.628	24.202
165.0	7.582	8.667	9.742	10.868	12.116	13.343	14.547	15.725	16.875	18.085
167.5	5.329	6.043	6.962	7.867	8.758	9.633	10.491	11.331	12.165	13.101
170.0	3.650	4.220	4.786	5.346	5.899	6.446	7.072	7.631	8.291	8.930
172.5	2.295	2.597	2.900	3.202	3.543	3.962	4.371	4.770	5.159	5.538
175.0	0.976	1.193	1.407	1.618	1.826	2.023	2.231	2.427	2.618	2.804
177.5	0.482	0.519	0.554	0.590	0.624	0.658	0.688	0.723	0.754	0.784
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	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1050.520	1051.715	1052.855	1053.938	1054.962	1055.924	1056.822	1057.656	1059.759	1060.050
5.0	1076.922	1079.411	1081.782	1084.031	1086.152	1088.140	1089.991	1091.702	1093.268	1094.686
7.5	1103.653	1107.630	1111.420	1115.014	1118.403	1121.578	1124.530	1127.253	1129.739	1131.982

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CANDELA TABULATION - (Cont.)

10.0	1129.991	1135.242	1140.243	1144.979	1149.437	1153.606	1157.474	1161.030	1164.267	1167.175
12.5	1154.444	1161.226	1167.630	1173.713	1179.456	1184.838	1189.843	1194.453	1198.652	1202.426
15.0	1177.688	1186.029	1194.012	1201.457	1208.363	1214.848	1220.886	1226.454	1231.574	1236.092
17.5	1199.109	1208.803	1218.107	1226.985	1235.274	1242.735	1249.678	1256.072	1261.890	1267.107
20.0	1218.080	1229.474	1239.961	1249.973	1259.459	1268.368	1276.672	1284.372	1291.424	1297.784
22.5	1233.342	1246.703	1259.421	1271.258	1282.382	1292.887	1302.619	1311.356	1319.412	1326.727
25.0	1247.416	1262.639	1277.164	1291.754	1303.271	1314.734	1325.503	1335.249	1343.670	1351.361
27.5	1259.524	1276.983	1293.183	1308.117	1322.322	1334.270	1345.058	1354.776	1363.471	1371.869
30.0	1269.541	1288.685	1306.485	1323.163	1337.824	1351.551	1362.957	1373.067	1381.881	1389.482
32.5	1276.290	1297.068	1317.184	1335.042	1351.842	1366.161	1380.145	1390.486	1400.405	1408.645
35.0	1278.422	1301.427	1322.795	1343.309	1361.460	1378.759	1393.313	1406.272	1416.946	1426.057
37.5	1277.024	1302.130	1325.110	1347.150	1367.474	1385.715	1403.713	1417.197	1431.062	1441.559
40.0	1271.728	1298.567	1323.547	1347.290	1370.221	1389.476	1407.412	1423.312	1436.846	1449.416
42.5	1266.610	1295.459	1321.997	1347.154	1370.928	1391.729	1410.207	1426.663	1439.915	1451.172
45.0	1259.591	1289.825	1317.930	1344.506	1369.263	1391.166	1411.036	1428.849	1443.359	1455.781
47.5	1248.011	1279.507	1309.429	1337.623	1362.688	1385.669	1406.443	1424.185	1438.684	1450.948
50.0	1231.311	1264.722	1296.780	1323.984	1349.817	1373.721	1394.757	1412.760	1428.159	1441.084
52.5	1210.810	1244.992	1276.443	1305.710	1332.665	1356.628	1378.566	1399.899	1416.046	1431.730
55.0	1185.920	1221.038	1253.904	1283.371	1310.513	1335.677	1360.625	1382.449	1401.306	1416.889
57.5	1157.721	1193.644	1226.762	1257.552	1286.927	1315.252	1341.202	1363.284	1382.588	1397.446
60.0	1125.188	1162.414	1196.586	1231.064	1263.396	1292.141	1318.134	1341.341	1360.412	1375.179
62.5	1089.764	1128.075	1167.524	1203.333	1235.948	1266.948	1292.317	1316.179	1335.067	1351.179
65.0	1053.218	1096.191	1135.837	1172.644	1205.699	1236.107	1263.474	1287.122	1307.243	1324.713
67.5	1019.588	1062.566	1102.324	1139.356	1173.147	1203.667	1231.334	1255.389	1276.555	1294.662
70.0	985.073	1027.513	1067.930	1104.931	1139.084	1169.706	1197.565	1222.068	1243.775	1262.418
72.5	952.306	992.142	1031.680	1069.299	1104.030	1134.663	1162.671	1187.710	1210.170	1229.500
75.0	915.975	957.126	996.030	1032.598	1066.736	1098.299	1126.728	1152.239	1176.441	1195.369
77.5	881.501	922.622	961.128	998.008	1029.593	1060.336	1089.119	1115.451	1139.155	1159.524
80.0	847.506	887.914	926.521	961.112	993.025	1023.079	1051.384	1077.600	1101.610	1121.563
82.5	814.113	854.254	891.226	924.817	956.595	986.272	1014.035	1039.845	1063.696	1082.367
85.0	780.892	820.683	856.003	889.116	920.361	949.798	977.266	1002.624	1026.125	1043.353
87.5	748.310	785.955	820.733	853.539	884.621	913.785	941.110	966.562	988.766	1005.276
90.0	715.302	751.613	785.998	818.518	849.152	878.177	905.337	932.104	951.226	967.433
92.5	681.635	717.700	751.914	784.299	814.776	843.530	870.447	895.536	914.032	930.171
95.0	648.166	684.333	718.544	750.776	781.177	809.868	836.730	861.164	877.924	893.338
97.5	615.364	651.929	684.981	717.684	748.116	777.157	804.065	826.285	842.331	857.126
100.0	583.239	618.280	651.853	683.956	714.765	744.134	771.934	791.849	807.171	821.350
102.5	551.439	586.017	619.319	651.208	681.631	710.601	738.125	755.202	770.682	784.846
105.0	520.264	554.046	586.909	618.597	648.831	677.679	702.567	718.766	733.758	747.526
107.5	490.212	522.885	554.739	585.688	615.709	644.537	667.874	682.096	696.731	710.205
110.0	461.445	492.785	523.363	553.302	582.549	610.788	628.840	644.253	658.686	671.961
112.5	434.015	463.848	493.034	521.815	549.965	575.119	591.072	606.142	620.100	632.706
115.0	407.429	435.920	463.823	491.392	518.304	538.974	554.219	568.648	582.020	594.309
117.5	381.618	408.755	435.438	461.838	487.565	503.793	518.270	531.965	544.706	556.459
120.0	356.467	382.175	407.614	432.797	454.895	469.334	483.057	495.987	508.040	519.181
122.5	331.642	355.993	380.159	404.036	421.501	435.168	448.170	460.328	471.807	482.341
125.0	307.125	329.921	352.726	374.717	388.361	402.151	413.632	425.170	435.908	445.814
127.5	282.981	305.041	325.684	342.748	355.460	367.574	379.200	390.097	400.234	409.483
130.0	258.904	279.013	298.961	311.397	323.214	334.507	345.291	355.404	364.813	373.486
132.5	234.462	253.240	268.632	280.115	291.369	301.896	311.858	321.199	329.884	337.880
135.0	209.735	226.597	238.213	249.143	259.365	269.377	278.664	287.324	295.331	302.660
137.5	185.131	197.740	208.345	218.417	228.868	237.126	245.765	253.797	261.200	267.952
140.0	160.564	170.474	179.939	188.851	197.508	205.975	213.875	221.194	227.915	234.025
142.5	136.996	145.550	153.761	161.609	169.260	176.805	183.855	190.397	196.415	201.895
145.0	115.997	123.199	130.122	136.750	143.444	149.990	156.132	161.853	167.137	171.967
147.5	97.180	103.239	109.099	114.963	120.459	125.958	131.125	135.944	140.401	144.482

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CANDELA TABULATION - (Cont.)

150.0	80.470	85.519	90.360	95.118	99.994	104.598	108.919	112.945	116.666	120.070
152.5	65.912	70.010	73.948	78.021	82.041	85.835	89.394	92.709	95.772	98.575
155.0	53.446	56.685	59.855	63.271	66.518	69.589	72.476	75.172	77.670	79.962
157.5	42.823	45.363	48.018	50.691	53.241	55.661	57.944	60.084	62.073	63.905
160.0	33.649	35.670	37.823	39.888	41.859	43.731	45.480	47.154	48.695	50.114
162.5	25.772	27.442	29.057	30.665	32.160	33.572	34.898	36.136	37.283	38.335
165.0	19.280	20.541	21.753	22.913	24.018	25.066	26.053	26.977	27.836	28.626
167.5	14.006	14.879	15.716	16.522	17.288	18.015	18.700	19.342	19.939	20.489
170.0	9.548	10.144	10.716	11.263	11.784	12.277	12.742	13.176	13.580	13.951
172.5	5.904	6.258	6.599	6.926	7.237	7.533	7.813	8.075	8.306	8.543
175.0	2.985	3.160	3.328	3.489	3.644	3.790	3.928	4.057	4.177	4.288
177.5	0.814	0.842	0.869	0.895	0.919	0.942	0.964	0.984	1.037	1.044
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	1024.141	1024.141	1024.141	1024.141	1024.141
2.5	1060.344	1060.640	1060.939	1061.239	1061.539
5.0	1097.228	1097.785	1098.347	1098.911	1099.477
7.5	1133.977	1136.911	1137.734	1138.562	1139.393
10.0	1169.748	1171.982	1174.572	1175.590	1176.611
12.5	1205.763	1208.651	1212.029	1213.286	1214.549
15.0	1240.124	1243.611	1247.792	1249.191	1250.689
17.5	1271.702	1275.658	1278.963	1281.942	1283.592
20.0	1303.410	1308.266	1312.322	1315.980	1317.934
22.5	1333.240	1338.899	1343.654	1347.965	1350.298
25.0	1358.254	1364.286	1369.403	1374.068	1376.729
27.5	1379.555	1386.427	1392.462	1397.908	1401.181
30.0	1398.243	1405.836	1412.195	1417.910	1421.139
32.5	1414.700	1422.895	1430.332	1437.365	1441.457
35.0	1432.500	1436.801	1444.962	1452.231	1457.998
37.5	1449.181	1453.068	1455.812	1464.583	1471.843
40.0	1459.311	1467.173	1469.445	1472.581	1482.811
42.5	1461.159	1470.332	1478.904	1480.265	1487.126
45.0	1466.391	1474.670	1480.277	1483.912	1485.508
47.5	1460.832	1467.850	1477.266	1481.364	1487.126
50.0	1453.620	1464.764	1470.304	1470.643	1482.811
52.5	1445.179	1453.245	1455.925	1462.336	1471.843
55.0	1429.895	1435.822	1439.487	1449.761	1457.998
57.5	1408.711	1416.440	1424.085	1433.823	1441.457
60.0	1386.566	1395.170	1405.469	1414.449	1421.139
62.5	1363.242	1373.078	1384.345	1393.788	1401.181
65.0	1338.068	1350.007	1360.998	1369.932	1376.729
67.5	1309.546	1322.883	1334.280	1344.668	1350.298
70.0	1278.171	1291.406	1302.516	1312.569	1317.934
72.5	1245.316	1258.162	1268.824	1278.361	1283.592
75.0	1211.039	1224.156	1235.163	1245.100	1250.689
77.5	1174.694	1187.831	1198.873	1208.857	1214.549
80.0	1136.852	1149.981	1160.957	1170.821	1176.611
82.5	1097.908	1111.326	1122.719	1133.086	1139.393
85.0	1058.470	1071.622	1082.818	1093.011	1099.477
87.5	1020.050	1033.065	1044.312	1054.660	1061.539
90.0	982.335	995.337	1006.630	1017.054	1024.141
92.5	944.611	957.483	968.769	979.258	986.563
95.0	907.360	919.948	931.067	941.456	948.805

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CANDELA TABULATION - (Cont.)

97.5	870.404	882.781	893.560	903.655	910.867
100.0	834.329	846.057	856.487	866.278	873.289
102.5	797.673	809.145	819.250	828.670	835.351
105.0	760.043	771.288	781.242	790.551	797.233
107.5	722.484	733.538	743.342	752.524	759.116
110.0	684.047	694.911	704.526	713.521	719.919
112.5	644.459	654.983	664.269	672.932	679.105
115.0	605.494	615.553	624.470	632.596	638.829
117.5	567.196	576.888	585.510	593.602	599.453
120.0	529.375	538.590	546.797	554.508	560.077
122.5	491.973	500.672	508.408	515.670	520.881
125.0	454.857	463.010	470.246	477.029	481.864
127.5	418.099	425.768	432.556	438.912	443.387
130.0	381.391	388.496	394.773	400.644	404.730
132.5	345.156	351.679	357.419	362.777	366.432
135.0	309.286	315.186	320.338	325.123	328.315
137.5	274.033	279.424	284.107	288.440	291.276
140.0	239.510	244.358	249.906	252.430	254.956
142.5	206.824	211.190	216.184	218.488	220.794
145.0	176.329	180.207	184.650	186.719	188.790
147.5	148.173	151.460	155.225	156.993	158.763
150.0	123.146	125.884	129.017	130.494	131.973
152.5	101.110	103.369	105.862	107.181	108.419
155.0	82.041	83.902	86.019	87.060	88.102
157.5	65.574	67.073	68.778	69.630	70.482
160.0	51.406	52.566	53.888	54.543	55.199
162.5	39.289	40.143	41.112	41.592	42.073
165.0	29.345	29.991	30.725	31.095	31.465
167.5	20.990	21.692	21.952	22.214	22.475
170.0	14.289	14.763	14.936	15.109	15.283
172.5	8.747	9.035	9.140	9.245	9.350
175.0	4.485	4.532	4.580	4.627	4.675
177.5	1.051	1.058	1.065	1.072	1.079
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	374.10	N.A.	8.40
0-30	801.30	N.A.	18.00
0-40	1327.27	N.A.	29.80
0-60	2433.24	N.A.	54.60
0-80	3313.62	N.A.	74.30
0-90	3639.63	N.A.	81.70
10-90	3543.29	N.A.	79.50
20-40	953.16	N.A.	21.40
20-50	1516.78	N.A.	34.00
40-70	1585.25	N.A.	35.60
60-80	880.39	N.A.	19.80
70-80	401.10	N.A.	9.00
80-90	326.01	N.A.	7.30
90-110	464.94	N.A.	10.40
90-120	615.35	N.A.	13.80
90-130	717.32	N.A.	16.10
90-150	804.70	N.A.	18.10
90-180	817.26	N.A.	18.30
110-180	352.32	N.A.	7.90
0-180	4456.89	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.35
10-20	277.76
20-30	427.20
30-40	525.96
40-50	563.61
50-60	542.36
60-70	479.28
70-80	401.10
80-90	326.01
90-100	261.27
100-110	203.67
110-120	150.41
120-130	101.97
130-140	59.47
140-150	27.91
150-160	10.03
160-170	2.34
170-180	0.19

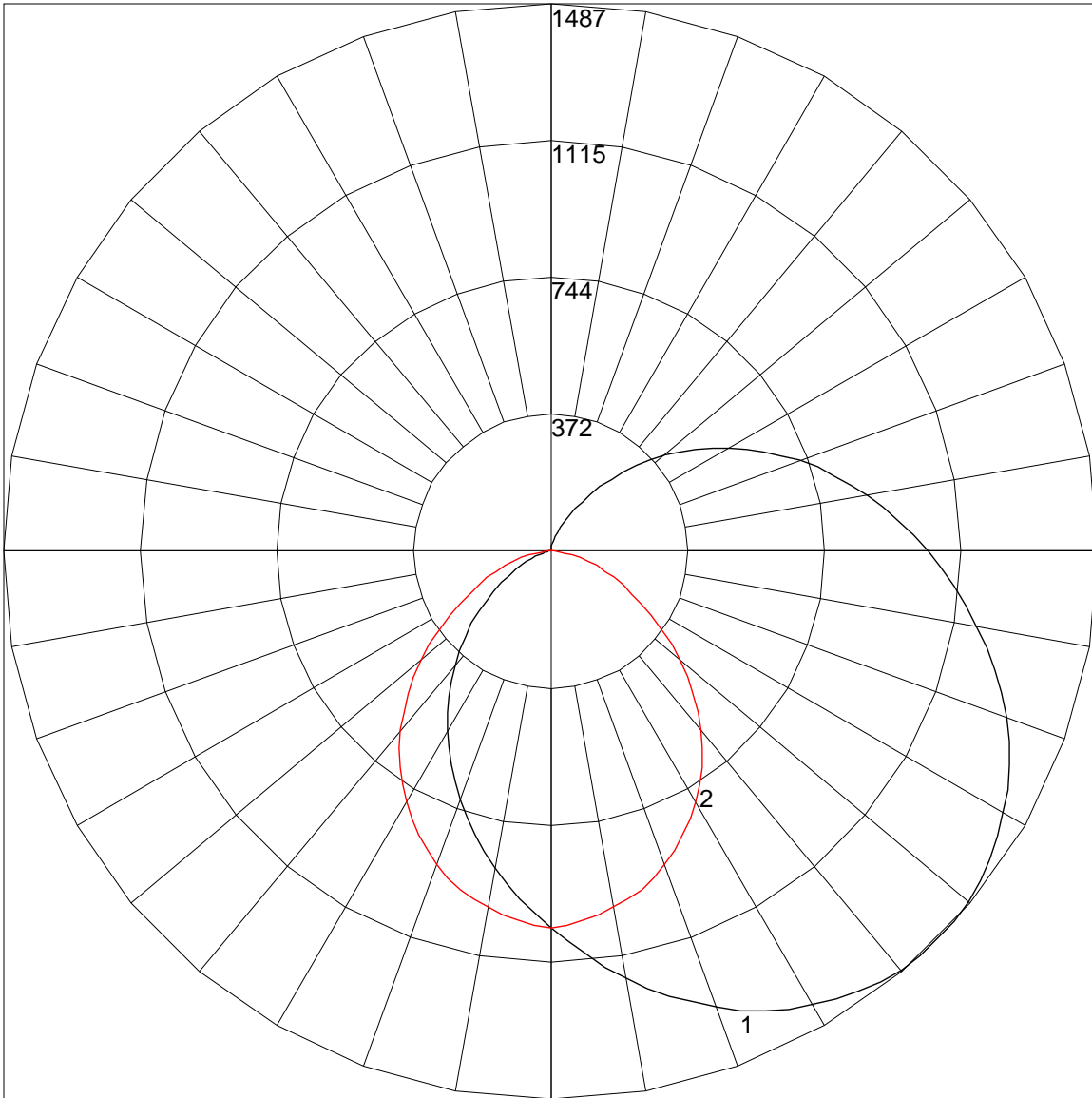
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 1487.126 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)