



IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDIS24-LED32FRDMV40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LLI-14210-2
 [TESTLAB] LightLab International (www.LightLabInt.com)
 [MANUFAC] Mobern Lighting Company
 [LUMCAT] RDIS24-LED32FRDMV40
 [MORE] Overall luminaire extents ~ 24 x 48 x 3.75". White painted multi facet reflector holds four LED strips.
 [MORE] Reflector encloses one Universal D10CC55UNVTZ-C driver. Dimmer lines O/C.
 [MORE] Tested in ceiling position at 120V 60Hz.
 [OTHER] Absolute test - lamp lumens value set to -1
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.
 [MORE] The sample was tested at a distance of 8m.
 [MORE] This IES file created by LightLab/LSA Report program version 3.804a.
 [DATE] This file created: Friday, 5 September 2014 3:33:31 PM
 [ISSUEDATE] Friday, 5 September 2014 3:33:31 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3579
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	32.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.16 m
Luminous Width (90-270)	0.55 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1848	1846	1879
55	1601	1605	1627
65	1325	1330	1335
75	1041	1058	1059
85	763	834	871

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CANDELA TABULATION

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
0.0	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597
0.5	1444.365	1442.817	1439.277	1438.874	1439.712	1440.352	1440.123	1439.949	1439.159	1438.756
1.0	1443.962	1442.564	1438.882	1438.661	1439.499	1440.375	1439.499	1439.238	1438.574	1438.227
1.5	1443.551	1442.200	1438.440	1437.824	1438.772	1440.020	1439.032	1438.748	1438.077	1437.871
2.0	1442.824	1441.434	1437.871	1437.310	1437.950	1439.254	1438.527	1438.116	1437.500	1436.971
2.5	1441.963	1440.589	1437.160	1436.591	1437.413	1438.195	1437.508	1437.136	1436.686	1436.457
3.0	1441.079	1439.570	1436.125	1435.707	1436.236	1437.176	1436.331	1436.283	1435.485	1435.501
3.5	1439.941	1438.511	1434.774	1434.371	1435.067	1435.928	1435.359	1434.956	1434.703	1434.364
4.0	1438.574	1437.050	1433.479	1433.036	1433.905	1434.790	1434.174	1433.953	1433.408	1433.281
4.5	1437.121	1435.564	1431.836	1431.393	1432.460	1433.455	1432.578	1432.633	1432.009	1431.859
5.0	1435.533	1433.945	1430.279	1429.718	1430.611	1431.907	1431.196	1430.935	1430.540	1430.445
5.5	1433.645	1432.404	1428.454	1428.028	1428.857	1430.105	1429.394	1429.347	1429.102	1428.707
6.0	1431.796	1430.627	1426.653	1426.290	1427.159	1428.352	1427.656	1427.506	1427.396	1427.182
6.5	1429.782	1428.620	1424.583	1424.275	1425.215	1426.321	1425.650	1425.729	1425.255	1424.899
7.0	1427.696	1426.306	1422.498	1422.087	1423.264	1424.370	1423.422	1423.430	1423.232	1423.082
7.5	1425.452	1424.117	1420.349	1419.749	1420.878	1422.024	1421.392	1421.360	1420.712	1421.028
8.0	1422.948	1421.700	1417.718	1417.434	1418.295	1419.425	1418.903	1419.006	1418.785	1418.398
8.5	1420.333	1418.959	1415.198	1414.937	1415.735	1416.968	1416.312	1416.067	1416.249	1415.783
9.0	1417.426	1416.241	1412.425	1411.999	1413.199	1414.242	1413.681	1413.429	1413.484	1413.334
9.5	1414.700	1413.373	1409.463	1409.076	1410.111	1410.948	1410.561	1410.608	1410.592	1410.427
10.0	1411.382	1410.118	1406.500	1406.042	1407.093	1408.064	1407.851	1407.496	1407.614	1407.575
10.5	1408.096	1406.966	1403.182	1403.008	1403.783	1404.936	1404.549	1404.691	1404.509	1404.541
11.0	1404.762	1403.585	1399.698	1399.453	1400.401	1401.618	1401.215	1401.184	1401.302	1401.191
11.5	1401.160	1399.872	1396.301	1395.962	1396.894	1398.134	1397.968	1397.858	1397.842	1398.158
12.0	1397.407	1396.254	1392.549	1392.091	1393.236	1394.800	1394.303	1394.461	1394.429	1394.729
12.5	1393.813	1392.178	1388.662	1388.409	1389.657	1390.613	1390.440	1390.692	1390.929	1391.214
13.0	1389.563	1388.354	1384.712	1384.562	1385.502	1386.798	1386.545	1386.703	1386.877	1387.272
13.5	1385.636	1384.175	1380.517	1380.296	1381.355	1382.784	1382.516	1382.587	1382.998	1383.243
14.0	1381.125	1379.711	1376.330	1375.998	1376.978	1378.574	1378.021	1378.250	1378.850	1379.040
14.5	1376.725	1375.390	1371.890	1371.519	1372.364	1373.913	1373.897	1374.197	1374.545	1374.821
15.0	1371.867	1370.761	1367.056	1366.803	1367.901	1369.489	1369.473	1369.536	1370.050	1370.239
15.5	1367.166	1366.013	1362.434	1361.984	1363.185	1364.828	1364.686	1364.891	1365.610	1365.871
16.0	1362.015	1360.878	1357.433	1357.141	1358.310	1359.977	1359.709	1359.961	1360.822	1361.241
16.5	1357.117	1355.814	1352.188	1352.188	1353.159	1354.866	1354.818	1354.961	1355.877	1356.043
17.0	1351.761	1350.568	1346.982	1346.832	1347.945	1349.857	1349.557	1350.015	1350.813	1350.963
17.5	1346.294	1344.880	1341.412	1341.349	1342.447	1344.390	1344.296	1344.714	1345.544	1345.694
18.0	1340.922	1339.421	1335.993	1335.874	1337.083	1338.963	1338.932	1339.429	1340.109	1340.393
18.5	1335.005	1333.639	1330.202	1330.242	1331.664	1333.149	1333.172	1333.615	1334.847	1334.847
19.0	1329.380	1327.729	1324.522	1324.182	1325.739	1327.200	1327.405	1327.895	1329.001	1329.246
19.5	1323.361	1321.725	1318.249	1318.289	1319.458	1321.417	1321.536	1322.168	1323.060	1323.511
20.0	1317.104	1315.555	1312.285	1312.016	1313.288	1315.461	1315.603	1315.958	1317.222	1317.546
20.5	1310.610	1309.156	1305.886	1305.665	1307.102	1309.038	1309.251	1309.773	1310.997	1311.479
21.0	1304.258	1302.718	1299.653	1299.281	1300.569	1302.544	1302.797	1303.453	1304.448	1305.372
21.5	1297.946	1296.121	1292.954	1292.732	1294.131	1295.971	1296.303	1297.148	1298.207	1298.879
22.0	1291.255	1289.730	1286.286	1286.025	1287.297	1289.272	1289.683	1290.015	1291.816	1292.432
22.5	1284.295	1282.715	1279.421	1279.452	1280.535	1282.225	1282.597	1283.300	1284.982	1285.662
23.0	1277.470	1275.787	1272.469	1272.319	1273.543	1275.321	1275.542	1276.435	1278.220	1278.765
23.5	1270.146	1268.519	1265.114	1265.225	1266.346	1268.076	1268.274	1269.214	1270.984	1271.663
24.0	1262.870	1261.298	1258.020	1257.980	1259.213	1260.690	1260.990	1261.883	1263.889	1264.695
24.5	1255.579	1253.762	1250.625	1250.491	1251.668	1253.177	1253.430	1254.496	1256.645	1257.443
25.0	1248.105	1246.430	1243.160	1242.717	1244.076	1245.791	1246.146	1246.983	1249.006	1250.112
25.5	1240.474	1238.744	1235.236	1235.252	1236.326	1237.851	1238.088	1238.973	1241.240	1242.354
26.0	1232.645	1230.986	1227.423	1227.431	1228.411	1229.951	1230.409	1231.278	1233.640	1234.841
26.5	1224.445	1222.746	1219.539	1219.531	1220.345	1222.075	1222.304	1223.252	1225.685	1227.044

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CANDELA TABULATION - (Cont.)

27.0	1216.450	1214.744	1211.339	1211.133	1212.113	1214.025	1214.088	1215.194	1217.635	1219.002
27.5	1208.171	1206.686	1203.296	1203.052	1203.842	1205.627	1205.943	1206.828	1209.703	1210.991
28.0	1199.655	1198.169	1194.678	1194.614	1195.420	1197.119	1197.411	1198.414	1201.400	1202.657
28.5	1191.446	1189.645	1186.256	1186.082	1186.904	1188.397	1189.061	1189.906	1192.734	1194.338
29.0	1182.764	1180.781	1177.606	1177.392	1178.119	1180.047	1180.157	1181.208	1184.123	1185.861
29.5	1173.743	1171.957	1168.592	1168.402	1169.303	1170.899	1171.309	1172.297	1175.275	1177.108
30.0	1164.681	1163.038	1159.910	1159.483	1160.360	1161.956	1162.414	1163.228	1166.396	1168.213
30.5	1155.794	1154.000	1150.912	1150.611	1151.433	1152.792	1153.353	1154.277	1157.524	1159.444
31.0	1146.432	1144.718	1141.487	1141.384	1142.016	1143.604	1144.086	1144.813	1148.447	1150.272
31.5	1137.023	1135.388	1132.291	1131.715	1132.757	1134.472	1134.598	1135.680	1139.054	1140.997
32.0	1127.599	1125.955	1122.645	1122.551	1123.190	1124.842	1125.205	1126.382	1129.471	1131.849
32.5	1117.811	1116.136	1112.976	1112.683	1113.252	1115.006	1115.520	1116.499	1120.007	1122.424
33.0	1108.078	1106.198	1103.488	1103.014	1103.772	1105.360	1105.755	1106.877	1110.353	1112.612
33.5	1098.226	1096.591	1093.313	1092.854	1093.937	1095.556	1095.943	1096.962	1100.541	1102.990
34.0	1088.272	1086.392	1083.398	1082.687	1083.698	1085.452	1085.792	1086.945	1090.611	1092.902
34.5	1077.979	1076.178	1073.168	1072.551	1073.610	1075.174	1075.688	1076.754	1080.491	1083.193
35.0	1067.875	1065.844	1063.032	1062.487	1063.340	1064.912	1065.560	1066.571	1070.442	1072.836
35.5	1057.107	1055.582	1052.446	1051.964	1052.991	1054.579	1055.029	1056.017	1060.006	1062.692
36.0	1046.955	1045.146	1041.907	1041.473	1042.389	1044.017	1044.625	1045.565	1049.531	1052.327
36.5	1035.903	1034.300	1031.076	1030.808	1031.629	1033.209	1033.999	1035.216	1039.008	1041.899
37.0	1025.151	1023.595	1020.388	1019.977	1020.625	1022.679	1023.097	1024.322	1028.367	1031.061
37.5	1014.360	1012.519	1009.549	1009.288	1009.739	1011.698	1012.440	1013.538	1017.607	1020.253
38.0	1003.505	1001.570	998.528	998.197	998.963	1000.669	1001.301	1002.621	1006.744	1009.557
38.5	992.232	990.494	987.468	986.987	987.729	989.578	990.202	991.632	995.645	998.363
39.0	980.848	979.158	976.211	975.753	976.645	978.502	979.268	980.272	984.569	987.287
39.5	969.662	967.766	964.938	964.337	965.277	967.165	968.161	969.212	973.501	976.085
40.0	958.223	956.374	953.483	953.048	953.799	955.758	956.643	957.851	962.038	964.953
40.5	946.554	944.864	942.004	941.435	942.320	944.334	945.211	946.539	950.710	953.451
41.0	935.178	933.235	930.454	929.870	930.818	932.879	933.835	935.052	939.318	942.051
41.5	923.139	921.322	918.549	918.320	919.118	921.069	921.938	923.234	927.823	930.336
42.0	911.502	909.503	906.833	906.557	907.465	909.448	910.451	911.605	916.037	918.675
42.5	899.636	897.645	895.007	894.707	895.354	897.574	898.570	899.842	904.131	906.746
43.0	887.549	885.685	883.196	882.809	883.536	885.827	886.751	888.079	892.321	894.904
43.5	875.257	873.693	871.078	870.738	871.512	873.874	874.609	876.134	880.218	882.967
44.0	863.375	861.511	859.070	858.872	859.552	861.606	862.791	864.213	868.171	870.864
44.5	851.091	849.329	846.927	846.801	847.338	849.550	850.854	851.904	856.068	858.572
45.0	839.027	837.187	834.580	834.651	835.251	837.684	838.364	839.762	843.839	846.517
45.5	826.609	824.958	822.232	822.248	823.117	825.416	826.222	827.770	831.775	834.224
46.0	814.214	812.483	810.074	810.034	810.919	812.989	814.198	815.628	819.380	821.726
46.5	802.008	799.962	797.782	797.868	798.508	800.894	802.024	803.264	806.898	809.576
47.0	789.487	787.733	785.473	785.458	786.437	788.752	789.637	791.122	794.661	796.944
47.5	776.981	775.172	773.070	772.944	773.797	776.167	777.328	778.735	782.179	784.312
48.0	764.380	762.753	760.738	760.430	761.497	763.661	764.957	766.237	769.934	771.727
48.5	751.843	750.342	748.414	748.193	749.070	751.495	752.609	753.905	757.144	759.316
49.0	739.290	737.821	735.735	735.893	736.478	738.950	740.088	741.439	744.630	746.582
49.5	726.832	725.275	723.285	723.229	724.351	726.776	727.716	728.870	732.022	733.965
50.0	714.358	712.778	710.992	710.708	711.948	714.105	715.219	716.404	719.350	721.286
50.5	701.828	700.272	698.558	698.218	699.427	701.733	702.594	704.016	706.845	708.630
51.0	689.196	687.703	686.060	685.989	686.913	689.101	690.294	691.574	694.118	695.879
51.5	676.809	675.189	673.530	673.657	674.542	676.864	677.702	678.950	681.691	683.279
52.0	664.335	662.605	661.159	660.993	661.949	664.351	665.267	666.420	668.830	670.592
52.5	651.782	650.344	648.630	648.558	649.633	651.884	652.793	653.986	656.324	657.896
53.0	639.363	637.862	636.179	636.345	637.372	639.726	640.651	641.725	643.866	645.209
53.5	626.920	625.277	623.760	623.997	625.032	627.386	628.097	629.282	631.415	632.356
54.0	614.446	613.103	611.571	611.768	612.653	614.794	615.868	617.022	618.665	619.874
54.5	602.280	600.756	599.539	599.555	600.447	602.833	603.560	604.484	606.230	607.234

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55.0	589.877	588.424	587.175	587.397	588.416	590.304	591.228	592.263	593.590	594.894
55.5	577.680	576.281	575.104	575.096	576.345	578.098	578.928	579.892	581.345	582.088
56.0	565.529	564.147	563.262	563.080	564.202	566.003	566.825	567.678	569.077	569.906
56.5	553.348	552.060	550.851	550.907	551.997	553.861	554.722	555.496	556.816	557.313
57.0	541.269	539.815	538.851	539.072	540.218	541.980	542.533	543.315	544.508	545.155
57.5	529.316	527.760	526.954	527.049	528.162	530.019	530.453	531.346	532.318	532.902
58.0	517.418	516.083	515.214	515.309	516.368	517.766	518.809	519.346	520.152	520.650
58.5	505.521	504.060	503.467	503.538	504.462	506.208	506.904	507.370	508.239	508.499
59.0	493.711	492.510	491.791	491.822	492.857	494.469	495.014	495.583	496.254	496.476
59.5	481.987	480.786	480.107	480.202	481.181	482.824	483.441	483.867	484.412	484.626
60.0	470.556	469.236	468.596	468.581	469.631	471.164	471.804	472.009	472.728	472.815
60.5	458.903	457.671	457.157	457.371	458.271	459.804	460.230	460.633	461.155	461.107
61.0	447.480	446.358	445.686	445.916	446.808	448.372	448.736	449.020	449.368	449.510
61.5	436.009	435.164	434.516	434.619	435.693	436.989	437.281	437.597	437.944	437.818
62.0	424.862	423.788	423.448	423.574	424.514	425.723	426.316	426.553	426.632	426.513
62.5	413.794	412.720	412.333	412.570	413.210	414.655	415.082	415.398	415.374	415.113
63.0	402.750	401.683	401.375	401.589	402.450	403.666	404.109	404.148	404.354	404.148
63.5	391.943	390.695	390.576	390.829	391.611	392.828	393.175	393.254	393.325	393.057
64.0	381.009	379.998	379.611	379.982	380.843	381.910	382.273	382.455	382.226	381.910
64.5	370.249	369.357	369.143	369.420	369.878	371.205	371.640	371.656	371.529	371.253
65.0	359.687	358.889	358.763	358.865	359.553	360.675	360.888	361.125	360.998	360.675
65.5	349.054	348.161	348.177	348.287	349.046	350.239	350.381	350.570	350.318	349.891
66.0	338.815	337.930	337.930	338.033	338.634	339.803	339.977	340.324	339.953	339.526
66.5	328.348	327.732	327.621	327.905	328.561	329.738	329.983	330.141	329.714	329.335
67.0	318.275	317.509	317.541	317.928	318.473	319.681	319.705	319.942	319.516	319.144
67.5	308.487	307.618	307.579	307.871	308.535	309.554	309.988	309.925	309.617	309.024
68.0	298.478	297.735	297.862	297.964	298.683	299.623	299.995	299.987	299.623	299.189
68.5	288.563	288.042	288.050	288.382	288.974	290.072	290.333	290.349	290.025	289.417
69.0	279.083	278.238	278.420	278.665	279.423	280.545	280.679	280.885	280.497	279.897
69.5	269.509	268.750	268.924	269.216	269.825	270.986	271.491	271.207	270.867	270.362
70.0	259.973	259.223	259.657	259.886	260.495	261.498	261.798	262.019	261.561	261.000
70.5	250.857	250.043	250.493	250.714	251.196	252.468	252.650	252.689	252.350	251.986
71.0	241.669	240.808	241.298	241.511	242.151	243.352	243.597	243.676	243.273	242.893
71.5	232.576	231.833	232.442	232.592	233.216	234.377	234.733	234.591	234.409	233.919
72.0	223.712	223.096	223.444	223.681	224.550	225.490	225.837	225.853	225.656	225.158
72.5	214.833	214.311	214.690	215.078	215.765	216.910	217.297	217.250	217.029	216.492
73.0	206.103	205.637	206.174	206.403	206.933	208.307	208.615	208.679	208.402	207.975
73.5	197.769	197.160	197.666	198.045	198.519	199.902	200.170	200.305	200.075	199.712
74.0	189.387	188.818	189.434	189.687	190.437	191.670	192.089	192.247	191.931	191.543
74.5	181.029	180.570	181.100	181.582	182.229	183.604	183.936	183.865	183.817	183.391
75.0	173.057	172.552	173.176	173.571	174.203	175.451	175.917	176.020	175.925	175.585
75.5	165.078	164.644	165.300	165.576	166.398	167.575	167.962	168.159	168.073	167.978
76.0	157.226	156.720	157.439	157.645	158.498	159.604	160.267	160.441	160.512	160.117
76.5	149.373	149.239	149.982	150.100	150.953	152.320	152.675	152.865	152.944	152.786
77.0	141.963	141.623	142.350	142.698	143.590	144.839	145.400	145.613	145.644	145.518
77.5	134.616	134.379	134.987	135.367	136.085	137.476	138.037	138.361	138.448	138.282
78.0	127.443	127.079	127.806	128.193	129.078	130.311	130.958	131.085	131.361	131.266
78.5	120.285	120.120	120.759	121.131	122.150	123.453	123.959	124.393	124.496	124.291
79.0	113.523	113.041	113.965	114.313	115.198	116.604	117.102	117.378	117.789	117.599
79.5	106.618	106.516	107.108	107.559	108.538	109.842	110.458	110.679	111.066	111.042
80.0	99.982	99.706	100.528	100.938	101.886	103.221	103.917	104.185	104.628	104.746
80.5	93.615	93.489	94.231	94.618	95.558	96.949	97.423	97.921	98.323	98.481
81.0	87.335	87.090	87.967	88.298	89.412	90.779	91.221	91.743	92.122	92.343
81.5	81.228	80.991	81.844	82.168	83.155	84.530	85.304	85.691	86.181	86.308
82.0	74.987	74.979	75.840	76.401	77.270	78.708	79.205	79.814	80.525	80.612
82.5	69.362	69.417	70.199	70.579	71.408	72.862	73.336	74.031	74.734	74.695

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CANDELA TABULATION - (Cont.)

83.0	63.816	63.729	64.567	64.970	65.862	67.253	67.877	68.382	69.078	69.196
83.5	58.263	58.152	58.989	59.503	60.348	61.715	62.536	62.876	63.421	63.729
84.0	52.985	53.033	53.728	54.020	54.945	56.374	57.180	57.733	58.184	58.444
84.5	47.827	47.858	48.530	49.067	49.778	51.192	51.729	52.180	52.977	53.080
85.0	42.684	42.747	43.545	43.813	44.793	45.970	46.681	47.124	47.716	47.953
85.5	37.944	37.967	38.765	38.939	39.840	40.930	41.744	42.107	42.763	43.181
86.0	33.148	33.299	33.883	34.017	34.973	36.158	36.925	37.185	38.039	38.663
86.5	28.598	28.630	29.238	29.507	30.067	31.466	32.161	32.627	33.622	34.049
87.0	24.103	24.103	24.798	25.146	25.580	26.986	27.555	28.266	29.364	30.028
87.5	20.145	20.011	20.556	20.769	21.528	22.997	23.779	24.458	25.193	25.991
88.0	16.053	15.832	16.369	16.709	17.759	19.260	20.090	20.690	21.607	22.112
88.5	12.055	12.134	13.027	13.470	14.402	15.998	16.788	17.309	18.233	18.723
89.0	8.714	8.832	9.938	10.475	11.471	12.893	13.572	14.267	15.010	15.452
89.5	5.664	6.123	7.284	7.687	8.564	9.970	10.618	11.179	11.984	12.522
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	70.0	80.0	90.0	100.0	110.0	112.5	120.0	130.0	135.0	140.0
0.0	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597
0.5	1438.116	1436.291	1437.950	1438.859	1438.740	1438.456	1438.827	1440.233	1441.379	1441.616
1.0	1437.705	1435.786	1437.658	1438.543	1438.543	1438.100	1438.867	1440.194	1441.158	1441.505
1.5	1437.105	1435.233	1437.208	1438.235	1438.274	1437.895	1438.464	1439.680	1440.952	1441.071
2.0	1436.528	1434.506	1436.457	1437.634	1437.468	1437.294	1437.879	1439.190	1440.336	1440.486
2.5	1435.541	1433.897	1435.817	1436.820	1436.741	1436.544	1437.247	1438.464	1439.664	1439.949
3.0	1434.735	1433.163	1434.996	1436.030	1436.173	1435.801	1436.354	1437.658	1438.795	1439.143
3.5	1433.921	1432.049	1434.095	1435.225	1435.240	1434.861	1435.470	1436.907	1438.203	1438.314
4.0	1432.641	1430.943	1432.934	1434.008	1434.221	1433.866	1434.356	1435.770	1436.876	1437.405
4.5	1431.259	1429.592	1431.464	1432.776	1432.744	1432.610	1433.179	1434.687	1435.967	1436.188
5.0	1429.718	1428.225	1430.050	1431.409	1431.464	1431.409	1432.009	1433.431	1434.798	1434.814
5.5	1428.075	1426.614	1428.336	1429.916	1430.050	1429.861	1430.524	1431.678	1433.147	1433.321
6.0	1426.464	1424.741	1426.819	1428.352	1428.494	1428.328	1428.731	1430.279	1431.638	1431.875
6.5	1424.362	1422.672	1425.018	1426.385	1426.637	1426.424	1426.914	1428.439	1429.845	1429.987
7.0	1422.237	1420.831	1422.924	1424.583	1424.741	1424.568	1425.160	1426.519	1427.522	1428.194
7.5	1420.065	1418.745	1420.744	1422.427	1422.561	1422.340	1423.051	1424.560	1425.729	1426.013
8.0	1418.026	1416.225	1418.263	1420.072	1420.388	1420.215	1420.847	1422.371	1423.722	1424.394
8.5	1415.404	1413.824	1416.059	1417.892	1417.789	1417.876	1418.564	1419.741	1421.194	1421.724
9.0	1412.694	1411.256	1413.144	1415.040	1415.435	1415.230	1415.980	1417.529	1418.824	1419.101
9.5	1409.937	1408.349	1410.545	1412.457	1412.725	1412.552	1413.602	1414.858	1416.154	1416.533
10.0	1406.958	1405.552	1407.701	1409.747	1409.937	1409.889	1410.529	1411.999	1413.120	1413.776
10.5	1404.186	1402.495	1404.683	1406.714	1406.998	1406.966	1407.764	1409.091	1410.261	1410.861
11.0	1401.073	1399.453	1401.468	1403.838	1403.964	1403.822	1404.565	1405.845	1407.188	1407.756
11.5	1397.478	1396.080	1398.189	1400.575	1400.717	1400.607	1401.255	1402.740	1403.988	1404.667
12.0	1394.097	1392.620	1394.919	1397.099	1397.060	1397.289	1397.889	1399.248	1400.717	1401.563
12.5	1390.471	1388.899	1391.395	1393.631	1393.647	1393.773	1394.224	1395.954	1397.234	1397.913
13.0	1386.711	1385.115	1387.461	1389.966	1390.005	1389.808	1390.645	1392.225	1393.513	1394.160
13.5	1382.484	1381.268	1383.646	1385.921	1386.158	1386.150	1387.058	1388.275	1389.784	1390.321
14.0	1378.629	1377.144	1379.427	1381.971	1382.010	1382.152	1383.021	1384.491	1385.968	1386.490
14.5	1374.316	1373.004	1375.319	1377.871	1377.863	1377.863	1379.048	1380.541	1381.623	1382.468
15.0	1369.923	1368.517	1370.950	1373.431	1373.628	1373.510	1374.553	1376.259	1377.318	1378.155
15.5	1365.539	1364.101	1366.281	1369.094	1369.204	1369.362	1370.200	1371.693	1372.988	1373.739
16.0	1360.617	1359.306	1361.802	1364.330	1364.614	1364.820	1365.657	1367.403	1368.517	1369.260
16.5	1356.035	1354.589	1357.228	1359.772	1359.835	1360.206	1360.894	1362.711	1363.619	1364.575
17.0	1350.703	1349.683	1352.117	1354.818	1355.134	1355.134	1356.185	1357.718	1358.950	1359.772
17.5	1345.441	1344.477	1346.918	1349.770	1349.841	1349.936	1350.876	1352.836	1353.949	1354.716
18.0	1340.124	1339.287	1341.562	1344.477	1344.699	1344.936	1345.773	1347.629	1348.577	1349.352

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18.5	1334.737	1333.789	1336.238	1339.058	1339.461	1339.453	1340.361	1342.257	1343.435	1343.909
19.0	1329.057	1328.203	1330.660	1333.773	1333.773	1334.105	1334.776	1336.498	1337.754	1338.639
19.5	1323.321	1322.768	1324.870	1327.864	1328.456	1328.425	1329.286	1331.174	1331.995	1332.801
20.0	1317.538	1316.693	1319.087	1322.239	1322.413	1322.800	1323.621	1325.344	1326.173	1327.137
20.5	1311.590	1310.586	1313.209	1316.219	1316.432	1316.654	1317.396	1319.166	1320.090	1321.117
21.0	1305.183	1304.519	1306.897	1310.255	1310.555	1310.571	1311.534	1313.114	1314.252	1315.002
21.5	1299.013	1298.365	1300.861	1303.871	1304.100	1304.330	1305.214	1306.826	1307.987	1308.738
22.0	1292.440	1291.792	1294.344	1297.686	1297.796	1298.136	1298.721	1300.443	1301.343	1302.307
22.5	1285.725	1285.338	1287.905	1290.884	1291.247	1291.555	1292.306	1293.886	1294.936	1295.331
23.0	1278.797	1278.568	1281.262	1284.208	1284.627	1284.943	1285.583	1286.950	1287.795	1288.474
23.5	1271.947	1271.710	1274.238	1277.501	1277.596	1277.959	1278.718	1280.163	1281.096	1281.917
24.0	1264.869	1264.727	1267.397	1270.470	1270.557	1271.118	1271.521	1273.204	1273.907	1274.768
24.5	1257.443	1257.562	1260.113	1263.273	1263.716	1263.708	1264.743	1266.022	1266.702	1267.476
25.0	1250.072	1250.167	1252.972	1256.053	1256.471	1256.558	1257.451	1258.533	1259.402	1260.137
25.5	1242.710	1242.710	1245.593	1248.824	1248.856	1249.298	1249.922	1251.076	1251.921	1252.600
26.0	1235.149	1235.110	1238.088	1241.153	1241.525	1241.730	1242.496	1243.539	1244.084	1244.890
26.5	1227.312	1227.320	1230.488	1233.474	1233.901	1234.146	1234.691	1235.639	1236.192	1236.935
27.0	1219.412	1219.697	1222.549	1225.519	1226.072	1226.033	1226.838	1227.542	1228.442	1228.750
27.5	1211.220	1211.639	1214.649	1217.809	1218.196	1218.425	1218.931	1219.594	1220.321	1220.906
28.0	1202.933	1203.368	1206.472	1209.601	1209.814	1209.932	1210.738	1211.347	1211.860	1212.555
28.5	1194.456	1195.167	1198.217	1201.314	1201.645	1201.788	1202.522	1202.807	1203.557	1204.023
29.0	1186.130	1186.667	1190.064	1192.995	1193.350	1193.437	1194.053	1194.377	1195.080	1195.428
29.5	1177.535	1178.246	1181.248	1184.487	1184.676	1185.087	1185.435	1185.758	1186.272	1186.793
30.0	1168.679	1169.382	1172.708	1175.654	1176.278	1176.294	1176.800	1176.879	1177.313	1177.677
30.5	1159.783	1160.905	1164.105	1167.020	1167.359	1167.596	1167.770	1167.841	1168.536	1168.773
31.0	1150.675	1151.741	1154.901	1158.132	1158.472	1158.796	1158.812	1158.669	1159.191	1159.436
31.5	1141.503	1142.632	1145.856	1148.897	1149.434	1149.474	1149.813	1149.592	1149.845	1150.153
32.0	1132.268	1133.405	1136.715	1139.828	1140.428	1140.310	1140.491	1140.128	1140.547	1140.736
32.5	1122.795	1124.123	1127.425	1130.624	1130.814	1130.948	1130.869	1130.514	1130.751	1131.027
33.0	1113.394	1114.737	1117.969	1120.994	1121.492	1121.397	1121.429	1120.978	1121.271	1121.334
33.5	1103.504	1105.115	1108.583	1111.427	1111.996	1111.846	1111.712	1111.190	1111.451	1111.522
34.0	1093.431	1095.296	1098.677	1101.781	1102.145	1102.224	1101.995	1101.379	1101.410	1101.616
34.5	1083.643	1085.421	1088.739	1091.914	1092.349	1092.230	1092.175	1091.180	1091.496	1091.417
35.0	1073.578	1075.395	1078.871	1081.921	1082.332	1082.142	1082.047	1081.099	1081.384	1081.044
35.5	1063.071	1065.347	1068.759	1071.722	1072.378	1071.959	1071.864	1070.671	1070.734	1070.829
36.0	1052.920	1055.069	1058.363	1061.531	1061.950	1061.910	1061.602	1060.512	1060.472	1060.393
36.5	1042.389	1044.751	1048.125	1050.992	1051.411	1051.395	1051.103	1049.792	1049.886	1049.752
37.0	1031.685	1033.968	1037.515	1040.588	1040.991	1040.825	1040.391	1039.158	1039.182	1039.040
37.5	1020.893	1023.619	1026.937	1029.939	1030.128	1030.358	1029.844	1028.462	1028.272	1028.288
38.0	1010.094	1012.646	1015.956	1019.045	1019.542	1019.637	1018.903	1017.631	1017.441	1017.346
38.5	999.074	1001.783	1005.141	1008.159	1008.680	1008.719	1008.040	1006.531	1006.342	1006.239
39.0	987.887	990.668	994.286	997.185	997.778	997.738	996.948	995.550	995.313	995.218
39.5	976.954	979.568	983.131	986.086	986.513	986.584	985.912	984.277	984.048	984.056
40.0	965.499	968.319	971.755	974.757	975.176	975.105	974.726	973.019	972.790	972.364
40.5	953.972	956.943	960.482	963.500	963.934	963.768	963.089	961.470	961.209	961.082
41.0	942.683	945.448	949.201	951.982	952.503	952.590	951.705	949.928	949.872	949.691
41.5	930.904	933.867	937.422	940.290	941.040	940.858	940.045	938.631	938.172	937.856
42.0	919.307	922.380	925.793	928.653	929.174	929.206	928.376	927.018	926.441	926.164
42.5	907.592	910.404	914.022	916.574	917.577	917.474	916.534	915.010	914.662	914.401
43.0	895.757	898.744	902.062	904.945	905.585	905.688	904.732	903.041	902.725	902.551
43.5	883.710	886.680	890.014	893.016	893.537	893.609	892.913	891.302	890.946	890.575
44.0	871.639	874.491	878.211	880.897	881.751	881.593	880.795	879.420	878.922	878.614
44.5	859.370	862.325	865.982	868.613	869.348	869.514	868.660	867.341	866.780	866.496
45.0	847.038	850.214	853.540	856.486	857.466	857.395	856.471	855.230	854.630	854.338
45.5	834.801	837.874	841.318	844.020	845.079	845.063	844.415	842.922	842.606	841.958
46.0	822.398	825.368	828.868	831.609	832.542	832.628	832.020	830.646	830.100	829.848

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46.5	810.011	812.973	816.433	819.104	820.233	820.273	819.688	818.377	817.927	817.682
47.0	797.726	800.547	803.872	806.535	807.775	807.838	807.356	806.084	805.666	805.334
47.5	784.928	787.764	791.240	794.021	795.190	795.072	794.795	793.666	793.081	792.805
48.0	772.423	775.377	778.608	781.476	782.416	782.266	782.147	781.120	780.883	780.512
48.5	759.846	762.737	765.779	768.528	769.823	769.942	769.579	768.804	768.457	768.093
49.0	747.064	750.073	753.020	755.840	757.049	757.334	757.049	756.046	755.746	755.517
49.5	734.574	737.228	740.222	743.050	744.299	744.591	744.449	743.564	743.453	743.035
50.0	721.736	724.477	727.551	730.221	731.627	731.817	731.714	731.074	730.813	730.671
50.5	709.009	711.664	714.689	717.470	718.726	718.900	719.034	718.608	718.410	717.968
51.0	696.188	698.897	701.883	704.783	705.999	706.307	706.315	705.991	705.905	705.525
51.5	683.548	686.004	689.101	691.945	693.075	693.407	693.707	693.257	693.359	693.067
52.0	670.836	673.230	676.035	678.839	680.348	680.538	681.012	680.846	680.925	680.459
52.5	658.275	660.393	663.229	666.010	667.392	667.676	668.372	668.324	668.253	668.103
53.0	645.470	647.689	650.431	653.156	654.736	655.013	655.692	655.605	655.858	655.550
53.5	632.711	634.844	637.538	640.169	641.836	642.310	642.831	643.052	643.115	643.068
54.0	619.937	622.070	624.732	627.379	629.180	629.456	630.325	630.602	630.752	630.768
54.5	607.510	609.438	612.092	614.825	616.508	616.927	617.717	618.057	618.270	618.301
55.0	594.736	596.513	599.199	601.775	603.647	604.129	605.029	605.598	605.898	605.748
55.5	582.372	584.110	586.638	589.340	590.960	591.599	592.579	593.274	593.567	593.701
56.0	569.890	571.581	574.014	576.574	578.501	578.999	580.176	580.816	581.164	581.329
56.5	557.353	558.972	561.319	563.878	565.893	566.359	567.583	568.476	569.029	569.100
57.0	544.997	546.554	548.860	551.452	553.427	553.885	555.212	556.263	556.674	556.950
57.5	532.705	534.253	536.576	538.914	541.237	541.434	542.943	544.018	544.618	544.800
58.0	520.452	521.914	524.070	526.496	528.731	529.008	530.706	531.931	532.626	532.713
58.5	508.499	509.763	511.912	514.330	516.376	517.095	518.335	519.860	520.397	520.792
59.0	496.420	497.582	499.572	501.982	504.194	504.723	506.540	507.907	508.634	508.981
59.5	484.357	485.392	487.541	489.911	492.099	492.620	494.422	496.128	496.665	497.092
60.0	472.562	473.660	475.556	477.855	480.099	480.794	482.429	484.357	484.886	485.329
60.5	460.791	461.818	463.738	466.053	468.186	468.857	470.666	472.578	473.218	473.613
61.0	449.131	450.095	451.959	454.037	456.509	457.007	458.666	460.689	461.510	461.992
61.5	437.692	438.545	440.275	442.582	444.691	445.315	447.377	449.289	450.197	450.687
62.0	426.213	427.106	428.788	431.016	433.189	433.710	435.740	437.889	438.885	439.098
62.5	415.042	415.580	417.349	419.348	421.773	422.342	424.356	426.292	427.398	427.904
63.0	403.864	404.520	406.068	408.043	410.358	411.037	412.878	415.358	416.346	416.599
63.5	392.843	393.420	394.882	396.762	399.100	399.851	401.762	404.109	404.946	405.531
64.0	381.617	382.226	383.648	385.931	388.088	388.609	390.829	393.049	393.949	394.613
64.5	370.968	371.466	372.904	374.768	377.028	377.746	379.753	382.068	383.182	383.719
65.0	360.106	360.682	362.247	364.016	366.347	366.963	369.041	371.434	372.327	373.204
65.5	349.536	350.025	351.416	353.280	355.508	356.093	358.210	360.706	361.670	362.144
66.0	339.345	339.589	340.759	342.757	345.040	345.562	347.719	350.223	351.108	351.779
66.5	328.980	329.240	330.457	332.266	334.510	335.165	337.314	339.763	340.767	341.438
67.0	318.868	319.200	320.329	321.870	324.177	324.974	326.926	329.398	330.267	330.923
67.5	308.930	308.961	310.138	311.742	313.899	314.760	316.695	319.358	320.069	320.851
68.0	298.968	299.157	300.350	301.883	304.079	304.648	306.757	309.190	310.359	310.833
68.5	289.132	289.488	290.420	291.984	294.085	294.710	296.811	299.236	300.097	300.800
69.0	279.652	279.668	280.663	282.243	284.503	285.048	287.126	289.519	290.246	291.068
69.5	270.306	270.093	271.191	272.795	274.920	275.434	277.472	279.723	280.782	281.343
70.0	260.858	260.850	261.956	263.268	265.282	265.946	268.023	270.227	271.112	271.815
70.5	251.568	251.741	252.610	254.127	256.126	256.568	258.512	260.724	261.790	262.422
71.0	242.577	242.712	243.533	245.019	246.899	247.444	249.411	251.568	252.563	252.998
71.5	233.571	233.666	234.772	236.036	237.932	238.351	240.271	242.388	243.249	243.857
72.0	224.945	224.897	225.877	227.133	229.045	229.527	231.249	233.334	234.338	234.835
72.5	216.215	216.215	217.226	218.372	220.426	220.710	222.614	224.763	225.474	225.869
73.0	207.667	207.746	208.718	209.950	211.799	212.226	213.885	215.686	216.602	217.258
73.5	199.570	199.633	200.344	201.569	203.441	203.749	205.566	207.304	208.205	208.647
74.0	191.346	191.299	192.025	193.329	194.901	195.304	197.089	198.985	199.499	200.083

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CANDELA TABULATION - (Cont.)

74.5	183.154	183.343	184.062	185.318	186.930	187.254	188.747	190.548	191.251	191.670
75.0	175.435	175.514	176.020	177.395	178.872	179.377	180.784	182.395	183.201	183.588
75.5	167.725	167.725	168.554	169.447	170.924	171.572	172.805	174.519	174.961	175.451
76.0	159.928	159.999	160.805	161.942	163.167	163.570	165.007	166.840	167.204	167.520
76.5	152.589	152.628	153.552	154.390	155.914	156.072	157.384	158.901	159.564	159.722
77.0	145.321	145.415	146.079	147.090	148.457	148.757	149.997	151.380	151.988	152.130
77.5	138.076	138.045	138.993	139.838	141.292	141.497	142.737	144.080	144.341	144.602
78.0	131.124	131.290	131.851	132.902	133.960	134.395	135.817	136.686	137.112	137.310
78.5	124.196	124.465	125.104	126.045	127.269	127.522	128.636	129.694	130.034	130.200
79.0	117.544	117.734	118.508	119.211	120.349	120.633	121.644	122.663	122.964	123.090
79.5	111.003	111.319	111.911	112.599	113.689	113.965	115.064	115.869	116.162	116.343
80.0	104.541	104.770	105.457	106.192	107.290	107.472	108.499	109.265	109.336	109.407
80.5	98.395	98.600	99.240	99.975	100.907	101.223	102.060	102.732	102.905	102.866
81.0	92.272	92.620	93.196	93.971	94.792	94.824	95.803	96.499	96.854	96.506
81.5	86.387	86.631	87.271	87.998	88.764	88.922	89.665	90.218	90.321	90.250
82.0	80.556	80.730	81.125	81.994	82.753	82.974	83.677	84.151	84.333	84.206
82.5	74.687	75.097	75.548	76.330	77.096	77.302	77.941	78.257	78.297	78.186
83.0	69.117	69.394	70.120	70.776	71.392	71.542	72.238	72.601	72.672	72.490
83.5	63.603	63.895	64.575	65.167	65.775	66.068	66.629	66.984	66.810	66.755
84.0	58.239	58.539	59.139	59.685	60.522	60.364	61.154	61.517	61.494	61.154
84.5	53.104	53.451	53.997	54.557	55.126	55.466	55.885	56.122	55.987	55.979
85.0	47.961	48.427	48.751	49.533	49.944	50.126	50.576	50.702	50.631	50.528
85.5	43.268	43.497	44.153	44.627	44.943	45.062	45.346	45.765	45.536	45.409
86.0	38.631	39.002	39.532	40.014	40.440	40.488	40.574	40.732	40.535	40.488
86.5	34.199	34.697	35.289	35.669	35.977	35.945	36.064	35.787	35.534	35.384
87.0	30.139	30.644	31.094	31.434	31.640	31.663	31.632	31.450	30.976	30.620
87.5	25.952	26.552	27.097	27.397	27.468	27.634	27.532	27.279	26.813	26.402
88.0	22.152	22.807	23.360	23.716	23.747	23.597	23.621	23.281	23.100	22.476
88.5	18.739	19.118	19.616	19.829	20.153	20.129	20.185	19.805	19.363	18.897
89.0	15.689	15.958	16.298	16.511	16.740	16.851	16.843	16.479	16.227	15.634
89.5	12.506	12.759	13.114	13.580	13.801	13.872	13.770	13.209	12.980	12.632
90.0	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>157.5</u>	<u>160.0</u>	<u>170.0</u>	<u>180.0</u>	<u>190.0</u>	<u>200.0</u>	<u>202.5</u>	<u>210.0</u>	<u>220.0</u>
0.0	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597
0.5	1441.007	1441.624	1441.829	1443.038	1444.957	1444.081	1442.153	1441.869	1442.998	1443.670
1.0	1441.339	1441.560	1441.505	1442.935	1445.100	1443.820	1441.861	1441.624	1442.682	1443.551
1.5	1440.763	1441.134	1441.466	1442.406	1444.784	1443.844	1441.671	1441.260	1442.477	1443.251
2.0	1440.344	1440.723	1440.834	1441.876	1444.199	1443.377	1441.126	1440.889	1441.853	1442.793
2.5	1439.633	1440.225	1440.241	1441.363	1443.646	1442.469	1440.668	1440.249	1441.402	1442.271
3.0	1438.669	1439.609	1439.420	1440.360	1443.085	1441.924	1439.917	1439.546	1440.660	1441.489
3.5	1438.132	1438.606	1438.953	1439.672	1442.279	1441.450	1439.388	1438.780	1439.633	1440.660
4.0	1436.955	1437.721	1437.982	1438.637	1441.165	1440.131	1438.211	1437.697	1438.795	1439.751
4.5	1435.659	1436.418	1436.497	1437.334	1440.233	1438.898	1437.231	1436.773	1437.650	1438.424
5.0	1434.593	1435.051	1435.446	1436.299	1438.732	1437.934	1435.762	1435.343	1436.260	1437.097
5.5	1433.036	1433.882	1433.834	1434.940	1437.429	1436.441	1434.419	1434.032	1435.003	1435.865
6.0	1431.599	1432.017	1432.499	1433.242	1435.778	1435.027	1432.791	1432.325	1433.352	1434.300
6.5	1429.955	1430.177	1430.516	1431.401	1434.245	1433.463	1431.180	1430.856	1431.764	1432.420
7.0	1428.281	1428.541	1428.233	1429.600	1432.152	1431.512	1429.410	1428.865	1429.845	1430.548
7.5	1425.863	1426.266	1426.653	1427.498	1430.319	1429.529	1427.214	1427.064	1427.901	1428.581
8.0	1423.793	1424.259	1424.615	1425.152	1428.004	1427.467	1425.302	1424.907	1425.729	1426.708
8.5	1421.392	1421.992	1422.253	1423.209	1425.650	1424.907	1422.948	1422.687	1423.462	1424.015
9.0	1418.974	1419.741	1419.796	1420.776	1423.359	1422.861	1420.641	1420.223	1421.376	1421.645
9.5	1416.573	1417.031	1417.458	1417.750	1420.918	1420.088	1417.766	1417.671	1418.532	1419.038

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10.0	1413.429	1414.226	1414.471	1415.238	1418.232	1417.639	1415.080	1414.732	1415.972	1416.352
10.5	1410.735	1411.438	1411.382	1412.307	1415.111	1414.637	1412.283	1411.833	1412.994	1413.508
11.0	1407.859	1408.365	1408.294	1409.210	1412.228	1411.438	1409.170	1408.689	1410.008	1410.592
11.5	1404.786	1404.976	1405.244	1405.837	1409.178	1408.373	1406.145	1405.845	1406.879	1407.543
12.0	1401.452	1401.855	1402.155	1402.361	1405.465	1404.786	1402.661	1402.606	1403.609	1404.035
12.5	1397.929	1398.189	1398.877	1399.074	1402.376	1401.515	1399.351	1398.995	1400.109	1400.520
13.0	1394.540	1394.713	1395.045	1395.195	1398.624	1397.937	1395.361	1395.259	1396.404	1396.973
13.5	1390.613	1390.993	1391.324	1391.451	1394.666	1393.868	1391.696	1391.506	1392.517	1393.299
14.0	1386.545	1387.114	1387.461	1387.588	1390.621	1389.950	1388.062	1387.509	1388.686	1389.499
14.5	1382.563	1382.753	1383.227	1383.590	1386.545	1386.174	1383.756	1383.480	1384.601	1385.249
15.0	1378.021	1378.763	1378.921	1379.214	1382.413	1381.844	1379.372	1379.261	1380.383	1381.228
15.5	1373.794	1374.102	1374.205	1374.861	1377.958	1377.697	1375.074	1374.813	1375.998	1376.899
16.0	1369.378	1369.599	1369.694	1370.216	1373.099	1372.759	1370.611	1370.223	1371.487	1372.127
16.5	1364.599	1364.804	1365.057	1365.468	1368.525	1368.090	1365.894	1365.468	1366.937	1367.300
17.0	1359.811	1359.953	1360.246	1360.649	1363.785	1363.200	1361.020	1360.617	1361.944	1362.584
17.5	1354.779	1354.850	1355.103	1355.443	1358.595	1358.002	1355.798	1355.695	1356.833	1357.718
18.0	1349.470	1349.644	1349.984	1350.339	1353.310	1353.065	1350.481	1350.410	1351.722	1352.749
18.5	1344.414	1344.169	1344.659	1344.785	1348.096	1347.479	1345.283	1345.062	1346.539	1347.171
19.0	1338.695	1338.853	1339.121	1339.232	1342.257	1341.878	1339.382	1339.706	1340.907	1341.728
19.5	1332.975	1333.315	1333.520	1333.544	1336.672	1336.380	1334.057	1334.113	1335.163	1336.072
20.0	1327.413	1327.508	1327.777	1327.429	1330.913	1330.447	1328.124	1328.116	1329.459	1330.376
20.5	1321.307	1321.409	1321.694	1321.559	1324.972	1324.680	1322.531	1322.184	1323.534	1324.514
21.0	1315.050	1315.042	1315.666	1315.508	1318.818	1318.510	1316.409	1316.203	1317.507	1318.565
21.5	1308.864	1308.690	1309.180	1309.109	1312.348	1312.040	1309.970	1310.041	1311.092	1312.372
22.0	1302.362	1302.276	1302.599	1302.370	1305.641	1305.601	1303.342	1303.318	1304.709	1305.767
22.5	1296.074	1295.963	1295.979	1295.948	1299.005	1298.752	1297.006	1296.690	1298.199	1299.163
23.0	1289.083	1289.185	1289.162	1289.256	1292.448	1292.250	1289.857	1289.928	1291.381	1292.622
23.5	1282.281	1282.241	1282.138	1282.044	1285.591	1285.243	1282.897	1283.134	1284.572	1285.812
24.0	1275.107	1275.021	1275.092	1275.021	1278.457	1278.054	1275.874	1275.874	1277.493	1278.623
24.5	1267.760	1267.689	1268.021	1267.729	1270.889	1271.086	1268.693	1268.606	1270.367	1271.592
25.0	1260.398	1260.255	1260.445	1260.042	1263.597	1263.558	1261.196	1261.196	1263.036	1264.340
25.5	1252.837	1252.687	1252.822	1252.829	1255.942	1255.966	1253.683	1253.951	1255.310	1256.922
26.0	1245.103	1245.016	1245.324	1245.214	1248.366	1248.421	1245.941	1245.830	1247.860	1249.053
26.5	1237.156	1237.116	1237.235	1237.156	1240.324	1240.276	1238.151	1238.254	1240.016	1241.359
27.0	1229.177	1228.885	1229.240	1229.295	1232.487	1232.266	1230.220	1230.314	1232.068	1233.403
27.5	1221.024	1220.890	1221.206	1221.087	1224.239	1224.152	1222.114	1222.328	1223.979	1225.282
28.0	1212.563	1212.658	1212.737	1212.587	1215.929	1215.952	1213.827	1213.898	1215.620	1216.956
28.5	1204.276	1204.181	1204.402	1204.023	1207.602	1207.381	1205.666	1205.493	1207.302	1208.763
29.0	1195.633	1195.515	1195.768	1195.547	1198.944	1198.714	1197.040	1196.984	1198.667	1200.129
29.5	1186.817	1186.896	1186.951	1186.730	1190.277	1190.151	1188.192	1188.342	1190.222	1191.431
30.0	1177.693	1177.835	1178.174	1178.040	1181.445	1181.374	1179.438	1179.367	1181.232	1182.764
30.5	1168.671	1169.010	1168.979	1169.003	1172.573	1172.297	1170.630	1170.559	1172.218	1173.719
31.0	1159.436	1159.625	1159.736	1159.704	1163.259	1163.228	1161.347	1161.229	1162.927	1164.365
31.5	1150.145	1150.477	1150.469	1150.548	1154.016	1153.827	1152.104	1152.073	1153.748	1155.233
32.0	1140.879	1140.934	1141.274	1141.266	1144.560	1144.655	1142.561	1142.838	1144.449	1146.014
32.5	1131.169	1131.320	1131.525	1131.667	1135.056	1135.112	1133.200	1133.208	1134.764	1136.431
33.0	1121.484	1121.753	1121.855	1121.990	1125.197	1125.237	1123.578	1123.388	1125.213	1126.603
33.5	1111.743	1111.893	1112.036	1112.320	1115.441	1115.591	1113.687	1113.552	1115.330	1116.942
34.0	1101.473	1101.813	1102.161	1102.255	1105.558	1105.550	1103.733	1103.654	1105.415	1107.051
34.5	1091.385	1091.717	1091.930	1092.286	1095.390	1095.461	1093.700	1093.613	1095.572	1096.631
35.0	1081.281	1081.676	1081.881	1081.826	1085.381	1085.270	1083.651	1083.390	1085.365	1086.685
35.5	1070.679	1071.090	1071.311	1071.453	1074.945	1074.850	1073.065	1073.152	1074.803	1076.225
36.0	1060.370	1060.749	1060.883	1061.073	1064.367	1064.462	1062.629	1062.550	1064.288	1065.844
36.5	1049.760	1050.036	1050.345	1050.724	1053.876	1053.844	1052.225	1052.011	1053.742	1055.100
37.0	1038.961	1039.308	1039.529	1039.774	1042.966	1042.903	1041.560	1041.157	1043.116	1044.570
37.5	1028.185	1028.493	1028.714	1029.038	1032.135	1032.277	1030.484	1030.610	1032.412	1033.770

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38.0	1017.212	1017.662	1017.662	1018.223	1021.170	1021.502	1019.661	1019.700	1021.454	1022.647
38.5	1006.097	1007.582	1006.697	1007.147	1010.118	1010.189	1008.538	1008.403	1010.070	1011.903
39.0	995.108	995.637	995.566	995.921	998.971	998.797	997.509	997.264	999.042	1000.669
39.5	983.732	983.969	984.395	984.561	987.634	987.658	986.086	986.181	987.587	989.428
40.0	972.245	972.664	972.838	973.241	976.187	976.440	974.963	974.789	976.385	977.886
40.5	960.877	961.075	961.549	961.738	964.819	964.732	963.366	963.342	964.874	966.462
41.0	949.319	949.651	949.975	950.331	953.111	953.269	951.800	951.697	953.348	954.849
41.5	937.548	937.935	938.157	938.536	941.285	941.490	939.918	939.950	941.625	943.157
42.0	925.635	926.196	926.172	926.741	929.561	929.633	928.345	928.392	929.996	931.536
42.5	913.935	914.314	914.646	915.065	917.767	918.012	916.440	916.495	918.114	919.584
43.0	901.825	902.409	902.630	902.970	905.688	905.925	904.345	904.574	905.988	907.576
43.5	889.919	890.488	890.693	891.104	893.537	894.043	892.416	892.471	894.067	895.710
44.0	877.998	878.496	878.709	879.025	881.371	881.901	880.589	880.423	882.185	883.686
44.5	865.966	866.251	866.409	866.685	869.411	869.806	868.281	868.115	869.956	871.417
45.0	853.721	853.990	854.227	854.519	857.150	857.403	856.178	856.249	857.648	859.291
45.5	841.603	841.879	842.022	842.322	844.779	845.205	843.902	843.965	845.490	847.188
46.0	829.271	829.532	829.658	830.077	832.233	832.921	831.475	831.633	833.079	834.675
46.5	816.923	817.389	817.366	817.729	819.981	820.549	819.056	819.175	820.818	822.248
47.0	804.599	804.805	805.113	805.294	807.396	807.973	806.969	806.756	808.454	809.995
47.5	792.030	792.307	792.370	792.773	794.977	795.396	794.258	794.298	795.901	797.150
48.0	779.706	779.943	780.180	780.417	782.590	782.977	781.729	782.013	783.459	784.794
48.5	767.240	767.461	767.477	767.920	769.839	770.432	769.270	769.334	771.166	772.304
49.0	754.853	754.687	755.216	755.272	757.294	757.894	756.709	756.812	758.361	759.869
49.5	742.339	742.181	742.798	742.845	744.741	745.318	744.306	744.433	745.958	747.143
50.0	729.873	729.763	730.102	730.395	732.291	732.488	731.817	731.801	733.397	734.724
50.5	717.352	717.154	717.581	717.668	719.635	720.077	719.098	719.232	720.638	721.949
51.0	704.980	704.814	705.036	705.091	707.137	707.437	706.473	706.560	708.188	709.586
51.5	692.459	692.206	692.490	692.633	694.371	694.876	693.960	694.165	695.690	696.851
52.0	680.024	679.669	679.953	680.064	681.857	682.323	681.415	681.596	682.860	684.164
52.5	667.416	667.163	667.408	667.526	669.272	669.659	669.012	669.051	670.402	671.642
53.0	654.918	654.728	654.910	655.115	656.735	657.122	656.593	656.522	657.880	659.097
53.5	642.278	642.104	642.539	642.641	644.142	644.632	643.984	643.890	645.414	646.497
54.0	629.788	629.820	630.144	630.120	631.581	632.063	631.510	631.645	632.980	634.101
54.5	617.567	617.527	617.772	617.922	619.257	619.692	619.147	619.257	620.490	621.501
55.0	605.432	605.156	605.298	605.472	606.649	607.091	606.641	606.728	608.095	609.145
55.5	593.021	592.848	592.998	593.132	594.475	594.783	594.349	594.309	595.771	596.711
56.0	580.919	580.429	580.761	580.895	582.159	582.499	582.198	582.056	583.660	584.426
56.5	568.516	568.160	568.531	568.579	569.946	570.159	569.930	569.819	571.131	571.944
57.0	556.326	556.073	556.279	556.421	557.645	557.969	557.724	557.471	558.988	559.762
57.5	544.587	544.199	544.318	544.381	545.503	545.843	545.305	545.669	547.043	547.668
58.0	532.184	532.033	532.184	532.231	533.392	533.748	533.527	533.487	534.751	535.336
58.5	520.499	520.176	520.223	520.476	521.534	521.771	521.479	521.519	522.988	523.422
59.0	508.665	508.389	508.412	508.681	509.771	509.732	509.597	509.787	511.059	511.572
59.5	496.752	496.649	496.515	496.831	497.763	497.992	497.724	497.724	498.980	499.564
60.0	484.989	484.918	484.870	485.044	485.953	486.340	485.953	486.024	487.304	487.754
60.5	473.439	473.218	473.257	473.384	474.292	474.632	474.474	474.648	475.596	476.117
61.0	461.881	461.597	461.755	461.802	462.656	462.948	462.782	462.782	464.078	464.465
61.5	450.426	450.300	450.221	450.505	451.011	451.564	451.145	451.311	452.512	452.947
62.0	439.169	438.861	439.019	439.106	439.564	440.077	440.054	440.085	441.089	441.318
62.5	427.769	427.667	427.524	427.516	428.354	428.630	428.464	428.773	429.800	430.218
63.0	416.630	416.330	416.551	416.417	416.923	417.618	417.254	417.539	418.613	418.905
63.5	405.562	405.238	405.373	405.349	405.973	406.344	406.376	406.455	407.435	407.893
64.0	394.502	394.463	394.526	394.289	395.016	395.292	395.221	395.253	396.509	396.778
64.5	383.743	383.403	383.482	383.419	384.090	384.303	384.619	384.509	385.481	385.947
65.0	372.809	372.706	372.690	372.690	373.275	373.567	373.654	373.860	374.626	375.005
65.5	362.231	362.018	362.097	361.931	362.452	362.776	363.045	363.124	363.874	364.356

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66.0	351.834	351.558	351.740	351.305	351.834	352.166	352.506	352.459	353.525	353.620
66.5	341.430	341.043	341.264	340.948	341.462	341.865	341.975	342.086	342.892	343.302
67.0	330.986	330.726	330.892	330.655	331.168	331.421	331.634	331.587	332.598	332.874
67.5	321.048	320.487	320.614	320.385	320.764	321.254	321.483	321.656	322.352	322.652
68.0	310.936	310.399	310.660	310.209	310.533	311.078	311.402	311.339	312.374	312.532
68.5	300.943	300.524	300.516	300.437	300.650	300.990	301.322	301.353	302.230	302.823
69.0	291.083	290.562	290.562	290.436	290.791	291.186	291.794	291.534	292.513	292.782
69.5	281.406	281.043	280.948	280.679	281.098	281.193	281.959	281.943	282.717	283.183
70.0	271.768	271.333	271.294	271.152	271.428	271.594	272.100	272.226	272.953	273.443
70.5	262.430	261.964	261.782	261.498	261.932	262.193	262.770	262.659	263.607	264.058
71.0	253.077	252.571	252.674	252.192	252.508	252.729	253.314	253.440	254.206	254.791
71.5	243.952	243.281	243.288	242.909	242.988	243.628	244.031	244.165	244.987	245.421
72.0	234.693	234.188	234.377	233.824	234.022	234.488	234.883	234.978	235.807	236.518
72.5	225.893	225.332	225.253	224.913	225.111	225.482	225.924	225.885	227.030	227.433
73.0	217.076	216.531	216.381	215.860	216.026	216.397	217.084	217.045	218.119	218.664
73.5	208.378	207.723	207.746	207.249	207.336	207.723	208.299	208.552	209.555	210.101
74.0	199.799	199.096	199.088	198.598	198.756	199.183	199.744	199.886	200.850	201.529
74.5	191.567	190.825	190.667	190.082	190.193	190.572	191.512	191.330	192.476	193.005
75.0	183.304	182.545	182.577	181.819	181.913	182.332	183.035	183.083	184.149	184.742
75.5	174.835	174.353	174.242	173.626	173.697	174.077	174.938	174.961	176.028	176.636
76.0	167.093	166.414	166.271	165.671	165.742	166.098	166.745	166.895	167.938	168.444
76.5	159.454	158.593	158.553	157.684	157.874	158.229	158.932	159.209	160.086	160.899
77.0	151.830	150.882	150.835	149.934	149.918	150.258	151.206	151.261	152.423	153.157
77.5	144.183	143.306	143.203	142.319	142.374	142.903	143.511	143.859	144.736	145.550
78.0	136.733	135.841	135.627	134.861	134.853	135.414	136.188	136.259	137.334	138.337
78.5	129.489	128.652	128.470	127.632	127.522	127.980	128.991	129.086	130.160	131.108
79.0	122.379	121.431	121.391	120.333	120.459	120.878	121.692	121.929	123.043	123.983
79.5	115.364	114.676	114.345	113.428	113.373	113.894	114.819	115.016	116.256	117.023
80.0	108.712	107.756	107.566	106.587	106.713	107.061	107.938	108.214	109.241	110.268
80.5	102.289	101.065	100.962	99.982	99.959	100.298	101.270	101.507	102.558	103.609
81.0	95.795	94.595	94.373	93.473	93.315	93.892	94.745	94.966	96.119	97.138
81.5	89.420	88.535	88.306	87.153	87.019	87.421	88.441	88.504	89.570	90.803
82.0	83.053	82.136	81.891	80.912	80.706	81.410	82.113	82.365	83.392	84.585
82.5	77.278	76.235	75.911	74.900	74.781	75.208	76.306	76.583	77.475	78.573
83.0	71.416	70.421	70.160	69.220	68.872	69.441	70.373	70.681	71.582	72.751
83.5	65.768	64.583	64.519	63.445	63.247	63.658	64.598	65.349	65.910	66.826
84.0	60.024	59.076	58.902	57.828	57.536	58.176	59.037	59.218	60.467	61.454
84.5	54.802	53.862	53.594	52.693	52.409	52.638	53.767	53.997	54.992	56.011
85.0	49.557	48.506	48.277	47.274	47.139	47.424	48.419	48.632	49.691	50.844
85.5	44.469	43.395	43.363	42.384	42.147	42.399	43.561	43.584	44.619	45.717
86.0	39.389	38.339	38.078	37.177	37.051	37.486	38.528	38.394	39.508	40.488
86.5	34.412	33.575	33.314	32.524	32.137	32.627	33.567	33.646	34.626	35.582
87.0	29.586	28.796	28.661	27.840	27.713	27.958	28.669	28.709	29.917	30.976
87.5	25.138	24.206	23.937	23.574	23.313	23.503	24.277	24.340	25.264	26.655
88.0	21.314	20.074	19.829	19.031	18.936	19.371	19.876	20.058	21.140	22.634
88.5	17.799	16.337	15.958	15.010	14.931	15.184	16.132	16.282	17.538	19.039
89.0	14.354	13.067	12.735	11.439	11.131	11.416	12.759	12.924	14.362	15.871
89.5	11.234	10.049	9.954	8.421	7.402	8.129	9.725	10.065	11.210	12.711
90.0	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>230.0</u>	<u>240.0</u>	<u>247.5</u>	<u>250.0</u>	<u>260.0</u>	<u>270.0</u>	<u>280.0</u>	<u>290.0</u>	<u>292.5</u>
0.0	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597
0.5	1442.880	1442.374	1441.229	1440.225	1439.625	1437.484	1437.808	1438.543	1438.788	1438.479
1.0	1442.730	1442.208	1440.889	1439.965	1439.246	1437.176	1437.745	1438.393	1438.345	1438.195

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1.5	1442.516	1442.019	1440.620	1439.538	1438.969	1436.686	1437.160	1438.187	1438.037	1437.768
2.0	1442.090	1441.450	1440.162	1439.285	1438.456	1436.481	1436.781	1437.571	1437.460	1437.279
2.5	1441.213	1440.873	1439.585	1438.677	1437.682	1435.659	1436.109	1436.923	1436.805	1436.544
3.0	1440.834	1440.304	1438.977	1437.753	1437.208	1434.948	1435.359	1436.157	1436.078	1435.730
3.5	1439.838	1439.285	1437.990	1436.971	1436.102	1433.874	1434.364	1435.193	1435.106	1434.869
4.0	1438.819	1438.084	1436.647	1435.920	1434.956	1432.870	1433.495	1434.032	1433.897	1433.502
4.5	1437.650	1437.136	1435.825	1434.719	1433.850	1431.535	1432.333	1432.989	1432.657	1432.404
5.0	1436.433	1435.612	1434.537	1433.408	1432.705	1430.295	1430.745	1431.583	1431.417	1430.998
5.5	1435.019	1434.403	1433.123	1432.112	1431.164	1429.134	1429.363	1430.098	1429.679	1429.379
6.0	1433.408	1432.728	1431.527	1430.303	1429.568	1427.167	1427.688	1428.604	1428.059	1427.822
6.5	1431.701	1431.077	1429.655	1428.905	1427.783	1425.610	1425.911	1426.890	1426.282	1425.839
7.0	1429.861	1429.236	1427.688	1426.993	1425.997	1423.762	1423.904	1425.018	1424.662	1424.109
7.5	1427.680	1426.993	1426.061	1424.884	1424.086	1421.763	1422.142	1423.146	1422.482	1421.834
8.0	1425.587	1425.152	1423.817	1422.743	1421.961	1419.504	1419.820	1420.728	1420.262	1419.598
8.5	1423.525	1422.901	1421.542	1420.507	1419.559	1417.228	1417.371	1418.453	1417.908	1417.300
9.0	1420.807	1420.167	1419.038	1418.042	1417.228	1414.740	1414.858	1415.988	1415.261	1414.985
9.5	1418.287	1417.616	1416.352	1415.309	1414.914	1412.117	1412.449	1413.421	1412.931	1412.346
10.0	1415.577	1415.072	1413.515	1412.733	1411.904	1409.368	1409.242	1410.758	1410.134	1409.384
10.5	1412.702	1412.172	1410.853	1409.755	1408.957	1406.390	1406.548	1407.772	1406.974	1406.484
11.0	1409.708	1409.289	1407.780	1406.714	1405.908	1403.364	1403.719	1404.644	1403.988	1403.427
11.5	1406.587	1405.987	1404.731	1403.530	1402.637	1400.283	1400.552	1401.626	1400.646	1400.259
12.0	1403.372	1402.795	1401.357	1400.401	1399.461	1396.878	1397.170	1398.063	1397.249	1396.854
12.5	1399.927	1399.469	1397.842	1397.004	1396.135	1393.758	1393.631	1394.729	1393.797	1393.402
13.0	1396.175	1395.646	1394.366	1393.410	1392.620	1390.052	1390.218	1391.245	1390.187	1389.594
13.5	1392.588	1391.925	1390.677	1389.610	1388.812	1386.071	1386.418	1387.548	1386.332	1385.700
14.0	1388.725	1387.785	1386.766	1385.779	1385.028	1382.437	1382.389	1383.740	1382.492	1381.789
14.5	1384.507	1383.780	1382.800	1381.663	1380.991	1378.100	1378.455	1379.767	1378.226	1377.697
15.0	1380.454	1379.806	1378.542	1377.634	1376.986	1374.102	1374.071	1375.374	1374.023	1373.549
15.5	1376.054	1375.580	1374.213	1373.241	1372.578	1369.955	1369.868	1370.982	1369.655	1368.999
16.0	1371.574	1370.982	1369.892	1368.786	1367.932	1365.381	1365.262	1366.447	1365.160	1364.504
16.5	1366.913	1366.471	1365.318	1364.291	1363.493	1360.664	1360.664	1362.102	1360.388	1359.574
17.0	1362.055	1361.589	1360.585	1359.551	1358.800	1356.035	1356.090	1357.086	1355.466	1355.087
17.5	1357.023	1356.604	1355.648	1354.550	1354.052	1351.113	1351.113	1352.354	1350.600	1349.818
18.0	1352.140	1351.429	1350.616	1349.557	1348.862	1346.121	1345.963	1347.385	1345.465	1344.801
18.5	1346.539	1346.381	1345.496	1344.351	1343.735	1340.986	1340.741	1342.020	1340.188	1339.643
19.0	1341.183	1340.922	1340.077	1338.845	1338.276	1335.313	1335.329	1336.530	1334.752	1334.057
19.5	1335.700	1335.361	1334.492	1333.457	1332.896	1329.775	1329.799	1331.047	1329.151	1328.590
20.0	1329.973	1329.546	1328.772	1327.800	1327.058	1324.443	1323.922	1325.407	1323.345	1322.705
20.5	1323.945	1323.843	1323.155	1322.002	1321.330	1318.273	1318.139	1319.584	1317.459	1316.977
21.0	1318.131	1317.744	1317.056	1316.014	1315.453	1312.498	1312.253	1313.486	1311.724	1310.815
21.5	1312.024	1311.495	1310.902	1309.804	1309.180	1306.376	1306.210	1307.482	1305.143	1304.543
22.0	1305.349	1305.317	1304.638	1303.500	1302.742	1300.056	1299.985	1301.170	1298.736	1298.436
22.5	1299.052	1298.736	1298.381	1297.212	1296.659	1293.775	1293.475	1294.834	1292.503	1291.958
23.0	1292.203	1292.266	1291.429	1290.615	1290.062	1287.273	1287.084	1288.316	1285.749	1285.314
23.5	1285.693	1285.259	1284.911	1283.797	1283.252	1280.543	1280.306	1281.443	1278.978	1278.346
24.0	1278.339	1278.473	1277.809	1276.996	1276.506	1273.614	1273.614	1274.720	1272.105	1271.560
24.5	1271.394	1271.355	1270.762	1269.980	1269.404	1266.615	1266.607	1267.737	1264.988	1264.435
25.0	1264.142	1264.087	1263.566	1262.610	1262.483	1259.647	1259.458	1260.184	1257.704	1257.088
25.5	1256.598	1256.685	1256.053	1255.389	1254.955	1252.585	1252.079	1253.138	1250.538	1249.859
26.0	1249.164	1248.927	1248.800	1248.050	1247.481	1245.159	1244.716	1245.498	1242.623	1242.315
26.5	1241.066	1241.414	1241.051	1240.498	1240.063	1237.306	1236.966	1237.883	1235.268	1234.336
27.0	1233.514	1233.482	1233.245	1232.542	1232.447	1229.682	1229.438	1230.196	1227.486	1226.641
27.5	1225.369	1225.377	1225.306	1224.777	1224.524	1221.806	1221.387	1222.375	1219.341	1218.630
28.0	1217.066	1217.398	1217.200	1216.671	1216.379	1213.946	1213.464	1214.191	1211.291	1210.280
28.5	1208.842	1209.016	1209.016	1208.392	1208.194	1205.777	1205.256	1206.030	1203.115	1202.254
29.0	1200.587	1200.452	1200.792	1199.947	1199.828	1197.569	1196.913	1197.640	1194.796	1194.053

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CANDELA TABULATION - (Cont.)

29.5	1191.707	1191.691	1192.181	1191.470	1191.525	1189.100	1188.626	1189.084	1186.280	1185.316
30.0	1182.970	1182.946	1183.254	1182.899	1182.875	1180.402	1179.991	1180.513	1177.661	1176.539
30.5	1173.853	1173.995	1174.580	1174.327	1173.995	1171.594	1171.064	1171.862	1168.821	1167.889
31.0	1164.752	1164.974	1165.534	1165.100	1165.005	1162.912	1162.248	1162.833	1159.846	1158.701
31.5	1155.667	1155.802	1156.410	1155.960	1156.102	1153.803	1153.361	1153.732	1150.659	1149.742
32.0	1146.258	1146.519	1147.238	1146.827	1146.835	1144.544	1144.054	1144.576	1141.345	1140.523
32.5	1136.676	1136.952	1137.908	1137.513	1137.497	1135.325	1134.661	1135.104	1132.078	1131.035
33.0	1126.872	1127.156	1128.310	1127.930	1127.796	1125.892	1125.205	1125.742	1122.535	1121.326
33.5	1117.202	1117.605	1118.806	1118.348	1118.364	1116.594	1115.757	1115.994	1112.889	1111.830
34.0	1107.256	1107.556	1108.844	1108.465	1108.386	1106.735	1105.992	1106.300	1102.943	1101.900
34.5	1097.294	1097.515	1098.866	1098.614	1098.606	1096.694	1096.038	1096.370	1093.107	1092.072
35.0	1086.961	1087.364	1088.754	1088.762	1088.699	1086.906	1086.053	1086.163	1083.051	1081.913
35.5	1076.667	1076.975	1078.453	1078.397	1078.595	1076.754	1075.964	1076.051	1072.694	1071.627
36.0	1066.168	1066.563	1068.135	1068.199	1068.135	1066.540	1065.671	1065.852	1062.416	1061.191
36.5	1055.393	1056.056	1057.644	1057.794	1057.810	1056.191	1055.314	1055.353	1052.209	1050.905
37.0	1044.957	1045.249	1046.805	1047.058	1047.066	1045.518	1044.775	1044.649	1041.299	1039.964
37.5	1033.944	1034.466	1036.140	1036.480	1036.275	1035.058	1033.960	1033.889	1030.444	1029.552
38.0	1023.184	1023.619	1025.278	1025.460	1025.649	1024.053	1023.366	1023.176	1019.953	1018.618
38.5	1012.116	1012.511	1014.313	1014.581	1014.573	1013.017	1012.195	1012.085	1008.767	1007.463
39.0	1000.977	1001.451	1003.118	1003.332	1003.608	1002.178	1001.254	1001.088	997.667	996.435
39.5	989.854	990.154	992.106	992.161	992.208	991.174	990.154	990.147	986.418	985.193
40.0	978.178	978.818	980.445	980.635	980.990	979.758	978.747	978.668	975.184	973.967
40.5	967.086	967.316	968.951	969.417	969.409	968.493	967.387	967.331	963.808	962.465
41.0	955.387	955.734	957.717	957.930	958.065	956.753	955.774	955.695	952.211	950.884
41.5	943.552	944.082	945.875	946.159	946.420	945.251	944.271	943.932	940.471	939.065
42.0	931.947	932.421	934.349	934.452	934.617	933.575	932.350	932.105	928.874	927.515
42.5	920.097	920.611	922.238	922.467	922.673	921.748	920.808	920.413	916.914	915.744
43.0	908.192	908.461	910.246	910.554	910.657	909.851	908.650	908.413	905.000	903.476
43.5	896.097	896.579	898.183	898.499	898.672	897.709	896.824	896.263	893.024	891.736
44.0	884.026	884.579	886.167	886.427	886.570	885.535	884.492	884.208	880.929	879.491
44.5	871.844	872.302	873.922	874.230	874.333	873.408	872.128	871.931	868.787	867.436
45.0	859.488	860.136	861.732	861.969	862.182	861.234	860.231	859.567	856.455	854.978
45.5	847.520	847.875	849.361	849.685	849.677	848.737	847.789	847.014	844.178	842.693
46.0	835.046	835.646	836.934	837.131	837.321	836.468	835.235	834.722	831.459	830.290
46.5	822.714	823.093	824.507	824.713	824.815	823.883	822.722	822.200	819.167	817.753
47.0	810.153	810.690	811.875	812.318	812.246	811.520	810.374	809.663	806.653	805.437
47.5	797.718	798.271	799.448	799.512	799.599	798.801	797.608	796.873	793.974	792.741
48.0	785.292	785.663	786.777	786.848	787.069	786.145	784.976	784.359	781.484	780.433
48.5	772.754	773.110	774.232	774.089	774.287	773.473	772.107	771.593	768.796	767.627
49.0	759.980	760.430	761.394	761.394	761.378	760.541	759.443	758.756	755.880	754.829
49.5	747.514	747.933	748.644	748.817	748.723	747.933	746.661	745.847	743.208	742.189
50.0	734.992	735.372	735.948	736.035	736.130	735.135	733.910	733.049	730.592	729.407
50.5	722.258	722.558	723.324	723.095	723.166	722.210	720.859	720.306	717.644	716.680
51.0	709.633	710.084	710.487	710.329	710.305	709.404	708.109	707.453	705.004	704.016
51.5	696.993	697.262	697.768	697.483	697.388	696.606	695.224	694.773	692.166	691.203
52.0	684.432	684.962	685.025	684.835	684.796	683.682	682.505	681.873	679.289	678.405
52.5	671.832	672.219	672.306	672.029	672.093	670.892	669.541	668.869	666.594	665.536
53.0	659.192	659.342	659.587	659.137	659.295	658.212	656.869	656.111	653.693	653.109
53.5	646.568	646.710	646.741	646.425	646.418	645.343	643.858	643.329	640.959	640.082
54.0	634.109	634.394	634.180	633.706	633.778	632.806	631.281	630.444	628.216	627.521
54.5	621.619	621.770	621.762	621.122	621.224	619.802	618.594	617.812	615.702	615.031
55.0	609.122	609.248	609.027	608.505	608.292	607.170	605.717	605.101	603.031	602.043
55.5	596.790	596.829	596.474	595.700	595.700	594.578	593.251	592.453	590.572	589.703
56.0	584.505	584.521	583.889	583.368	583.139	582.017	580.634	579.923	577.727	577.285
56.5	572.118	572.039	571.478	570.720	570.672	569.416	568.113	567.378	565.379	564.779
57.0	559.731	559.652	559.296	558.396	558.293	557.100	555.449	554.841	552.937	552.415

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57.5	547.541	547.636	546.933	546.151	546.016	544.673	543.157	542.327	540.889	540.281
58.0	535.320	535.359	534.633	533.653	533.527	532.215	530.841	530.106	528.352	527.894
58.5	523.288	523.430	522.506	521.534	521.440	519.923	518.540	518.003	516.328	515.823
59.0	511.335	511.383	510.561	509.416	509.139	507.804	506.477	505.782	504.289	503.917
59.5	499.438	499.304	498.435	497.163	497.005	495.733	494.248	493.553	492.281	491.846
60.0	487.651	487.604	486.514	485.408	485.107	483.772	482.421	481.710	480.288	479.830
60.5	475.959	475.801	474.624	473.502	473.597	472.025	470.564	469.939	468.541	468.107
61.0	464.283	463.975	462.948	461.676	461.565	460.001	458.556	457.971	456.825	456.383
61.5	452.781	452.488	451.311	450.055	449.802	448.641	447.014	446.405	445.102	444.810
62.0	441.302	441.120	439.896	438.663	438.245	437.004	435.582	434.792	433.702	433.441
62.5	429.831	429.634	428.512	426.979	426.900	425.557	424.056	423.298	422.279	422.002
63.0	418.755	418.281	417.199	415.856	415.666	414.173	412.736	412.048	411.029	410.642
63.5	407.585	407.198	406.028	404.606	404.512	402.963	401.565	400.972	399.874	399.629
64.0	396.485	396.232	394.882	393.436	393.373	391.856	390.497	389.549	388.735	388.317
64.5	385.654	385.330	384.027	382.644	382.463	380.867	379.453	378.829	377.881	377.462
65.0	374.776	374.436	373.085	371.648	371.513	369.997	368.646	367.832	367.113	366.821
65.5	363.977	363.882	362.484	360.967	360.524	359.387	357.815	357.120	356.409	355.990
66.0	353.533	353.162	352.000	350.555	350.128	348.659	347.347	346.676	345.886	345.696
66.5	343.073	342.663	341.430	339.866	339.653	338.349	336.967	336.311	335.529	335.308
67.0	332.614	332.337	331.026	329.683	329.272	327.890	326.460	325.899	325.069	324.903
67.5	322.525	322.194	320.866	319.468	319.160	317.817	316.308	315.684	315.147	314.862
68.0	312.421	312.311	310.778	309.498	309.167	307.737	306.354	305.770	305.074	304.924
68.5	302.436	302.049	300.966	299.513	299.118	297.846	296.606	295.784	295.357	295.065
69.0	292.703	292.316	291.068	289.740	289.377	287.860	286.588	286.106	285.395	285.230
69.5	282.883	282.583	281.477	279.944	279.897	278.388	276.950	276.476	275.844	275.742
70.0	273.364	272.953	271.728	270.393	270.220	268.908	267.613	267.020	266.467	266.183
70.5	263.836	263.426	262.335	261.087	260.779	259.555	258.298	257.706	257.177	256.884
71.0	254.625	254.317	253.132	252.065	251.528	250.256	249.055	248.597	248.060	247.799
71.5	245.319	245.153	243.849	242.814	242.396	241.242	239.978	244.868	239.157	238.667
72.0	236.265	236.020	234.993	233.848	233.485	232.379	231.083	230.601	230.230	229.914
72.5	227.362	227.038	226.248	225.000	224.700	223.586	222.472	221.903	221.390	223.215
73.0	218.467	218.293	217.218	216.199	216.010	214.817	213.711	213.174	212.715	212.392
73.5	209.903	209.745	208.671	207.707	207.517	206.316	205.321	204.721	204.183	204.049
74.0	201.355	201.253	200.463	199.436	199.048	198.116	197.073	196.291	195.920	195.833
74.5	193.060	192.839	192.096	190.998	190.682	189.742	188.723	188.154	187.870	187.593
75.0	184.789	184.781	184.078	182.932	182.743	181.811	180.713	180.262	179.749	179.504
75.5	176.818	176.652	175.917	174.985	174.827	173.958	172.876	172.497	171.959	171.635
76.0	168.784	168.610	168.033	167.053	167.038	165.971	165.142	164.652	164.138	163.941
76.5	160.805	162.187	160.299	159.469	159.311	158.419	157.621	157.202	156.523	156.507
77.0	153.402	154.982	152.841	151.933	151.767	151.127	150.068	149.768	149.089	149.049
77.5	145.834	145.779	145.249	144.499	144.483	143.511	142.721	142.405	141.876	141.805
78.0	138.519	138.392	138.084	137.247	137.184	136.346	135.564	135.288	134.640	134.545
78.5	131.195	131.330	130.792	130.168	130.160	129.370	128.723	128.422	127.688	127.696
79.0	124.149	124.172	123.801	123.319	123.090	122.466	121.771	121.439	121.028	120.728
79.5	117.299	117.418	117.204	116.454	116.517	115.838	115.119	114.676	114.195	114.147
80.0	110.537	110.608	110.252	110.039	109.723	109.225	108.562	108.270	107.843	107.353
80.5	103.648	103.988	103.774	103.403	103.332	102.708	102.123	101.894	101.286	101.136
81.0	97.344	97.533	97.510	96.980	96.996	96.554	95.906	95.551	95.045	94.998
81.5	91.206	91.316	91.142	90.897	90.700	90.376	89.768	89.523	88.962	88.780
82.0	85.044	85.075	85.194	84.838	84.617	84.459	83.898	83.519	82.982	82.839
82.5	78.992	78.984	79.174	79.016	78.787	78.589	78.178	77.847	77.278	77.183
83.0	73.138	73.446	73.454	73.154	73.178	72.878	72.388	72.253	71.669	71.456
83.5	67.324	67.624	67.956	67.585	67.474	67.229	66.937	66.787	66.060	65.989
84.0	61.778	61.976	62.228	62.149	62.141	61.976	61.628	61.296	60.767	60.411
84.5	56.446	56.675	56.880	56.833	56.833	56.785	56.430	56.209	55.632	55.395
85.0	51.224	51.453	51.619	51.856	51.864	51.761	51.532	51.232	50.671	50.434

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CANDELA TABULATION - (Cont.)

85.5	45.899	46.278	46.863	46.902	46.894	46.918	46.768	46.381	46.065	45.678
86.0	41.017	41.404	41.989	42.170	42.336	42.447	42.186	41.902	41.278	41.025
86.5	36.308	36.688	37.462	37.628	37.738	37.896	37.683	37.486	36.869	36.632
87.0	31.734	32.185	33.133	33.330	33.370	33.694	33.496	33.401	32.611	32.414
87.5	27.429	27.950	28.875	29.341	29.254	29.657	29.522	29.356	28.630	28.345
88.0	23.392	23.961	24.996	25.248	25.304	25.675	25.509	25.399	24.751	24.616
88.5	19.679	20.358	21.188	21.575	21.741	22.041	22.025	21.994	21.306	20.998
89.0	16.353	16.946	18.020	18.099	18.470	18.620	18.526	18.533	17.886	17.696
89.5	13.485	13.951	14.955	15.255	15.508	15.484	15.405	15.397	14.947	15.192
90.0	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>300.0</u>	<u>310.0</u>	<u>315.0</u>	<u>320.0</u>	<u>330.0</u>	<u>337.5</u>	<u>340.0</u>	<u>350.0</u>	<u>360.0</u>
0.0	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597	1440.597
0.5	1438.732	1439.901	1440.873	1441.118	1440.344	1440.723	1440.628	1442.011	1444.365
1.0	1438.408	1439.633	1440.462	1440.786	1440.375	1440.375	1440.423	1441.805	1443.962
1.5	1438.029	1439.262	1440.044	1440.462	1439.562	1439.925	1439.917	1441.189	1443.551
2.0	1437.595	1438.637	1439.499	1439.751	1439.269	1439.443	1439.269	1440.470	1442.824
2.5	1436.678	1437.721	1438.487	1438.811	1438.432	1438.440	1438.472	1439.562	1441.963
3.0	1436.030	1436.868	1437.745	1438.005	1437.555	1437.721	1437.618	1438.906	1441.079
3.5	1434.861	1435.722	1436.805	1436.947	1436.378	1436.497	1436.449	1437.603	1439.941
4.0	1433.913	1434.703	1435.659	1435.809	1435.138	1435.075	1435.082	1436.228	1438.574
4.5	1432.531	1433.329	1434.095	1434.237	1433.431	1433.795	1433.653	1434.656	1437.121
5.0	1431.196	1432.049	1432.839	1432.981	1432.207	1432.175	1432.246	1433.028	1435.533
5.5	1429.458	1430.374	1431.290	1431.251	1430.421	1430.429	1430.477	1431.235	1433.645
6.0	1428.004	1428.510	1429.513	1429.568	1428.810	1428.668	1428.770	1429.292	1431.796
6.5	1426.013	1426.693	1427.498	1427.491	1426.748	1426.503	1426.693	1427.435	1429.782
7.0	1424.062	1424.733	1425.555	1425.563	1424.749	1424.417	1424.496	1425.255	1427.696
7.5	1421.850	1422.474	1423.027	1423.335	1422.514	1422.332	1422.277	1422.948	1425.452
8.0	1419.741	1420.420	1421.147	1421.036	1420.365	1419.962	1419.867	1420.467	1422.948
8.5	1417.284	1417.592	1418.492	1418.635	1417.687	1417.544	1417.252	1417.789	1420.333
9.0	1414.819	1414.993	1415.933	1415.901	1414.803	1414.590	1414.313	1414.882	1417.426
9.5	1412.157	1412.370	1413.049	1413.286	1412.038	1411.675	1411.556	1412.149	1414.700
10.0	1409.155	1409.605	1410.079	1410.024	1409.155	1408.420	1408.546	1409.044	1411.382
10.5	1406.319	1406.650	1407.156	1407.164	1405.884	1405.197	1405.292	1405.773	1408.096
11.0	1403.072	1403.435	1403.909	1403.806	1402.495	1402.045	1401.895	1402.432	1404.762
11.5	1399.896	1399.991	1400.733	1400.441	1399.027	1398.616	1398.276	1398.916	1401.160
12.0	1396.451	1396.681	1397.123	1396.941	1395.480	1395.029	1394.777	1395.227	1397.407
12.5	1392.825	1393.220	1393.481	1393.228	1391.980	1391.103	1391.056	1391.056	1393.813
13.0	1389.199	1389.104	1389.499	1389.784	1387.912	1387.098	1386.971	1387.161	1389.563
13.5	1385.344	1385.233	1385.700	1385.542	1383.938	1383.172	1382.856	1383.077	1385.636
14.0	1381.362	1381.046	1381.520	1381.536	1379.775	1378.771	1378.676	1378.779	1381.125
14.5	1377.349	1377.049	1376.828	1377.089	1375.532	1374.529	1374.158	1374.339	1376.725
15.0	1372.799	1372.601	1372.751	1372.428	1370.934	1369.678	1369.710	1369.749	1371.867
15.5	1368.478	1367.948	1368.201	1367.972	1366.163	1365.136	1364.970	1364.788	1367.166
16.0	1364.140	1363.287	1363.564	1363.422	1361.186	1360.262	1360.111	1359.795	1362.015
16.5	1359.124	1358.761	1358.761	1358.239	1356.225	1355.206	1354.787	1354.732	1357.117
17.0	1353.949	1353.736	1353.483	1353.373	1351.556	1350.063	1349.691	1349.541	1351.761
17.5	1349.012	1348.348	1348.222	1348.072	1345.955	1344.778	1344.311	1344.067	1346.294
18.0	1344.082	1343.190	1342.889	1342.684	1340.583	1339.398	1338.916	1338.584	1340.922
18.5	1338.647	1337.794	1337.644	1337.383	1335.266	1333.623	1333.441	1332.777	1335.005
19.0	1333.109	1332.272	1331.932	1331.616	1329.301	1327.848	1327.508	1327.010	1329.380
19.5	1327.398	1326.450	1326.023	1325.746	1323.448	1321.994	1321.599	1321.228	1323.361
20.0	1321.559	1320.469	1320.169	1319.869	1317.459	1315.895	1315.587	1315.018	1317.104
20.5	1315.540	1314.473	1314.244	1313.478	1311.226	1309.725	1309.386	1308.643	1310.610

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CANDELA TABULATION - (Cont.)

21.0	1309.520	1308.303	1307.892	1307.347	1305.143	1303.397	1302.971	1302.339	1304.258
21.5	1303.255	1301.888	1301.438	1301.114	1298.673	1296.564	1296.540	1295.798	1297.946
22.0	1296.951	1295.474	1294.818	1294.399	1292.021	1290.307	1289.928	1289.130	1291.255
22.5	1290.291	1288.925	1288.285	1287.645	1285.275	1283.434	1282.865	1282.312	1284.295
23.0	1283.734	1282.091	1281.427	1280.977	1278.481	1276.569	1276.111	1275.305	1277.470
23.5	1276.869	1275.147	1274.357	1273.970	1271.473	1269.404	1269.017	1268.108	1270.146
24.0	1269.799	1268.029	1267.207	1266.568	1264.111	1262.302	1262.017	1260.959	1262.870
24.5	1262.768	1260.722	1259.742	1259.513	1256.700	1254.994	1254.631	1253.556	1255.579
25.0	1255.468	1253.382	1252.395	1251.826	1249.274	1247.284	1246.999	1246.020	1248.105
25.5	1247.797	1245.838	1244.771	1244.100	1241.643	1239.929	1239.478	1238.380	1240.474
26.0	1240.340	1237.938	1237.069	1236.461	1233.869	1232.029	1231.555	1230.496	1232.645
26.5	1232.368	1230.030	1228.971	1228.513	1226.009	1223.987	1223.734	1222.675	1224.445
27.0	1224.658	1222.233	1220.985	1220.613	1217.864	1215.976	1215.589	1214.775	1216.450
27.5	1216.616	1213.898	1213.077	1212.445	1209.893	1207.910	1207.515	1206.417	1208.171
28.0	1208.337	1205.753	1204.655	1203.928	1201.377	1199.520	1199.260	1198.051	1199.655
28.5	1200.176	1197.237	1196.147	1195.294	1193.026	1191.202	1190.593	1189.582	1191.446
29.0	1191.660	1188.879	1187.496	1186.730	1184.297	1182.361	1181.966	1180.979	1182.764
29.5	1183.065	1179.944	1178.885	1177.874	1175.899	1173.703	1173.063	1172.281	1173.743
30.0	1174.335	1171.049	1169.903	1169.208	1166.791	1164.950	1164.397	1163.354	1164.681
30.5	1165.250	1162.043	1160.913	1160.202	1157.816	1155.889	1155.438	1154.119	1155.794
31.0	1156.197	1152.997	1151.796	1150.833	1148.652	1146.598	1146.140	1144.915	1146.432
31.5	1147.041	1143.770	1142.490	1141.748	1139.267	1137.237	1136.952	1135.704	1137.023
32.0	1137.687	1134.472	1133.129	1132.196	1129.921	1127.780	1127.377	1126.082	1127.599
32.5	1128.175	1124.660	1123.364	1122.574	1120.283	1118.237	1117.811	1116.483	1117.811
33.0	1118.759	1115.038	1113.631	1112.936	1110.661	1108.536	1108.157	1106.956	1108.078
33.5	1108.812	1105.250	1103.978	1103.101	1100.747	1098.653	1098.155	1096.883	1098.226
34.0	1099.016	1095.454	1094.103	1092.815	1090.706	1088.667	1088.170	1086.803	1088.272
34.5	1088.976	1085.239	1083.833	1082.814	1080.673	1078.437	1078.089	1076.936	1077.979
35.0	1078.950	1074.937	1073.618	1072.630	1070.387	1068.388	1067.653	1066.658	1067.875
35.5	1068.301	1064.723	1063.316	1062.242	1059.990	1058.142	1057.273	1056.088	1057.107
36.0	1058.158	1054.381	1052.715	1051.790	1049.594	1047.508	1046.782	1045.526	1046.955
36.5	1047.682	1043.716	1042.129	1041.141	1038.929	1036.867	1036.148	1035.129	1035.903
37.0	1036.725	1032.909	1031.400	1030.413	1028.169	1026.155	1025.475	1024.053	1025.151
37.5	1026.036	1022.126	1020.672	1019.440	1017.236	1015.111	1014.700	1013.380	1014.360
38.0	1015.182	1011.287	1009.652	1008.617	1006.421	1004.216	1003.671	1002.289	1003.505
38.5	1004.201	1000.132	998.615	997.422	995.242	993.180	992.706	991.276	992.232
39.0	993.046	989.017	987.508	986.449	984.111	982.081	981.401	980.019	980.848
39.5	982.049	977.783	976.021	975.160	972.774	970.784	970.318	968.580	969.662
40.0	970.428	966.478	964.788	963.492	961.319	959.439	958.586	957.117	958.223
40.5	958.910	955.071	953.459	952.242	949.959	947.834	947.376	945.677	946.554
41.0	947.660	943.402	942.012	940.732	938.220	936.363	935.866	933.993	935.178
41.5	935.660	931.773	930.114	929.111	926.575	924.671	924.039	922.507	923.139
42.0	924.039	920.239	918.596	917.143	914.852	912.908	912.442	910.736	911.502
42.5	912.000	908.200	906.580	905.301	903.041	901.208	900.529	898.909	899.636
43.0	900.205	896.326	894.691	893.506	891.057	889.137	888.426	886.917	887.549
43.5	888.197	884.421	882.825	881.616	879.152	877.145	876.473	874.909	875.257
44.0	876.039	872.263	870.770	869.435	866.922	865.232	864.631	862.759	863.375
44.5	863.968	860.089	858.351	857.221	854.883	852.987	852.276	850.577	851.091
45.0	851.746	848.073	846.390	845.221	842.677	840.710	840.094	838.514	839.027
45.5	839.375	835.749	834.066	833.000	830.630	828.686	827.991	826.206	826.609
46.0	827.012	823.370	821.845	820.502	818.061	816.347	815.517	813.724	814.214
46.5	814.774	811.109	809.410	808.352	805.721	803.896	803.106	801.479	802.008
47.0	802.127	798.722	797.102	795.933	793.405	791.667	790.964	789.171	789.487
47.5	789.558	786.129	784.826	783.404	780.876	779.051	778.513	776.728	776.981
48.0	777.163	773.939	772.138	770.898	768.559	766.656	765.937	764.404	764.380
48.5	764.657	761.291	759.862	758.361	756.101	754.166	753.605	752.159	751.843

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CANDELA TABULATION - (Cont.)

49.0	752.048	748.707	747.253	745.886	743.706	741.731	740.981	739.219	739.290
49.5	739.377	736.272	734.684	733.547	731.121	729.304	728.736	727.013	726.832
50.0	726.571	723.624	722.360	720.994	718.695	716.649	715.953	714.531	714.358
50.5	713.947	711.119	709.681	708.456	706.039	704.285	703.519	701.947	701.828
51.0	701.425	698.479	697.199	695.824	693.644	691.827	691.092	689.488	689.196
51.5	688.920	685.949	684.677	683.295	681.067	679.250	678.523	677.070	676.809
52.0	676.090	673.341	672.021	670.868	668.530	666.578	665.946	664.461	664.335
52.5	663.347	660.724	659.563	658.520	656.261	654.246	653.480	651.971	651.782
53.0	650.707	648.298	647.073	646.062	643.597	641.875	641.156	639.710	639.363
53.5	638.162	635.729	634.599	633.359	631.092	629.448	628.722	627.260	626.920
54.0	625.617	623.302	622.133	621.074	618.839	617.030	616.374	615.047	614.446
54.5	613.198	610.804	609.777	608.806	606.554	604.619	604.121	602.549	602.280
55.0	600.416	598.346	597.295	596.434	594.364	592.508	591.694	590.320	589.877
55.5	588.123	586.180	585.066	584.094	581.922	580.358	579.552	577.988	577.680
56.0	575.760	573.840	572.797	571.968	569.677	568.089	567.236	565.893	565.529
56.5	563.262	561.572	560.466	559.660	557.456	555.820	555.030	553.711	553.348
57.0	551.057	549.358	548.323	547.510	545.606	543.812	543.007	541.758	541.269
57.5	538.748	537.247	536.134	535.660	533.558	531.820	531.117	529.663	529.316
58.0	526.614	525.066	524.244	523.430	521.558	519.852	519.172	517.861	517.418
58.5	514.646	513.271	512.370	511.651	509.771	507.859	507.354	505.940	505.521
59.0	502.645	501.524	500.457	499.849	497.898	496.223	495.654	494.429	493.711
59.5	490.566	489.468	488.734	487.951	486.237	484.499	483.772	482.698	481.987
60.0	478.764	477.579	477.168	476.520	474.593	472.783	472.159	470.753	470.556
60.5	467.064	466.155	465.373	464.812	463.169	461.463	460.744	459.409	458.903
61.0	455.396	454.432	453.871	453.207	451.517	449.755	449.194	448.143	447.480
61.5	443.909	443.135	442.495	441.894	440.054	438.576	437.889	436.688	436.009
62.0	432.596	431.830	431.214	430.637	428.946	427.382	426.782	425.431	424.862
62.5	421.228	420.438	419.972	419.466	417.942	416.148	415.627	414.379	413.794
63.0	409.971	409.346	408.801	408.256	406.834	404.994	404.480	403.342	402.750
63.5	398.958	398.358	397.836	397.378	395.932	394.068	393.507	392.488	391.943
64.0	387.740	387.416	386.910	386.476	384.967	383.340	382.826	381.610	381.009
64.5	377.107	376.727	376.198	375.677	374.215	372.746	371.979	370.818	370.249
65.0	366.323	366.007	365.478	365.067	363.590	362.207	361.354	360.248	359.687
65.5	355.634	355.389	354.742	354.513	353.106	351.550	350.942	349.591	349.054
66.0	345.412	344.993	344.495	344.164	342.647	341.122	340.585	339.503	338.815
66.5	334.834	334.684	334.304	333.791	332.511	330.860	330.283	329.106	328.348
67.0	324.706	324.461	324.113	323.813	322.273	320.819	320.148	319.081	318.275
67.5	314.539	314.357	313.867	313.709	312.232	310.604	310.115	309.032	308.487
68.0	304.561	304.261	304.000	303.676	302.388	300.682	300.350	299.189	298.478
68.5	294.686	294.575	294.275	293.841	292.498	291.155	290.412	289.385	288.563
69.0	285.040	284.890	284.558	284.163	282.867	281.303	280.806	279.858	279.083
69.5	275.489	275.283	274.967	274.636	273.190	271.879	271.239	270.283	269.509
70.0	265.898	265.788	265.543	265.258	263.647	262.375	261.774	260.542	259.973
70.5	256.663	256.545	256.039	255.976	254.578	253.140	252.492	251.457	250.857
71.0	247.626	247.460	247.112	246.986	245.303	243.802	243.391	242.182	241.669
71.5	238.525	238.343	237.972	237.672	236.423	234.772	234.354	233.263	232.576
72.0	229.661	229.511	229.132	228.800	227.457	226.027	225.529	224.384	223.712
72.5	220.892	220.726	220.268	220.157	218.783	217.234	216.760	215.544	214.833
73.0	212.328	212.099	211.681	211.372	210.029	208.560	208.047	206.743	206.103
73.5	203.860	203.733	203.267	202.833	201.553	200.004	199.586	198.353	197.769
74.0	195.486	195.280	195.075	194.688	193.187	191.828	191.291	189.900	189.387
74.5	187.317	186.938	186.661	186.416	184.860	183.391	182.940	181.771	181.029
75.0	179.393	178.927	178.572	178.287	176.976	175.262	174.645	173.713	173.057
75.5	171.549	171.154	172.647	170.514	168.910	167.520	166.872	165.671	165.078
76.0	164.249	163.309	162.843	162.479	161.128	159.564	159.027	157.803	157.226
76.5	157.052	155.677	155.401	154.951	153.505	152.075	151.411	150.155	149.373

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CANDELA TABULATION - (Cont.)

77.0	148.741	148.425	148.323	147.454	145.992	144.467	144.072	142.587	141.963
77.5	141.307	142.390	140.525	140.186	138.574	136.954	136.488	135.114	134.616
78.0	134.253	133.810	133.305	132.791	131.330	129.852	129.220	128.027	127.443
78.5	127.356	126.803	126.250	125.713	124.149	122.758	122.324	120.902	120.285
79.0	120.317	119.859	119.401	118.871	117.291	115.956	115.198	113.973	113.523
79.5	113.610	113.073	112.583	112.567	110.647	109.075	108.641	107.164	106.618
80.0	107.164	106.634	106.065	105.631	103.964	102.582	101.965	100.765	99.982
80.5	100.749	100.093	99.635	99.074	97.636	96.104	95.479	94.200	93.615
81.0	94.460	93.963	93.315	92.857	91.142	89.878	89.144	88.053	87.335
81.5	88.441	87.706	87.279	86.600	85.051	83.637	83.124	81.891	81.228
82.0	82.334	81.876	81.165	80.643	79.032	77.815	77.057	75.793	74.987
82.5	76.575	75.880	75.437	74.750	73.257	71.874	71.463	70.160	69.362
83.0	70.982	70.255	69.662	69.165	67.656	66.273	66.084	64.432	63.816
83.5	65.301	64.662	64.124	63.682	62.062	60.617	60.127	58.989	58.263
84.0	59.985	59.179	58.768	58.128	56.690	55.316	54.771	53.720	52.985
84.5	54.794	53.973	53.357	52.938	51.382	50.118	49.699	48.340	47.827
85.0	49.786	48.775	48.103	47.645	46.262	44.951	44.540	43.245	42.684
85.5	44.998	43.932	43.095	42.668	41.222	40.124	39.532	38.473	37.944
86.0	40.274	39.224	38.528	37.991	36.490	35.187	34.768	33.741	33.148
86.5	35.740	34.784	34.002	33.243	31.703	30.462	29.981	29.064	28.598
87.0	31.600	30.320	29.601	28.819	27.318	25.967	25.430	24.798	24.103
87.5	27.595	26.291	25.541	24.830	23.155	21.765	21.259	20.422	20.145
88.0	23.700	22.555	21.883	21.291	19.450	18.075	17.451	16.290	16.053
88.5	20.343	19.237	18.375	17.894	16.084	14.591	13.991	12.680	12.055
89.0	17.032	16.156	15.310	14.718	13.075	11.566	10.949	9.520	8.714
89.5	14.283	13.122	12.766	11.811	10.357	9.014	8.319	6.668	5.664
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	523.57	N.A.	14.60
0-30	1101.33	N.A.	30.80
0-40	1774.49	N.A.	49.60
0-60	2967.11	N.A.	82.90
0-80	3523.3	N.A.	98.40
0-90	3578.87	N.A.	100.00
10-90	3442.78	N.A.	96.20
20-40	1250.92	N.A.	35.00
20-50	1906.4	N.A.	53.30
40-70	1557.38	N.A.	43.50
60-80	556.19	N.A.	15.50
70-80	191.43	N.A.	5.30
80-90	55.57	N.A.	1.60
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3578.87	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.09
10-20	387.48
20-30	577.76
30-40	673.16
40-50	655.48
50-60	537.13
60-70	364.76
70-80	191.43
80-90	55.57
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

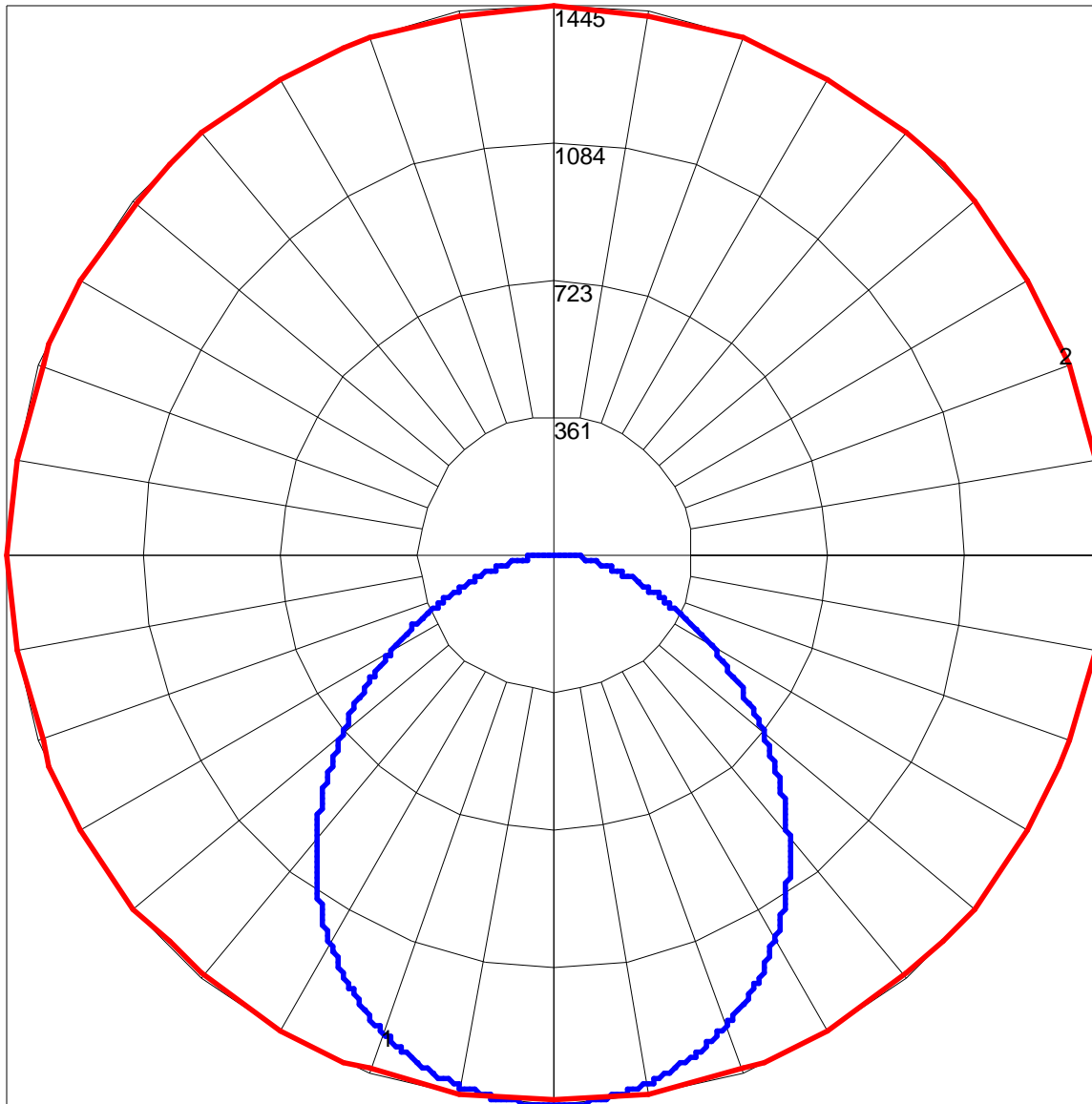
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 1445.1 Located At Horizontal Angle = 180, Vertical Angle = 1
1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)