



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBL48MWCB-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 32019  
 [TESTLAB] DATA CENTER  
 [ISSUEDATE] 2017-2-16  
 [MANUFAC] LAMAR LIGHTING CO., INC.  
 [LUMCAT] LHBL48MWCB-40  
 [LUMINAIRE] 4' SUSPENDED MOUNT LOUVERED LED  
 [MORE]POST PAINTED WHITE STRAIGHT BLADE BAFFLE  
 {LAMP} 4000K 56 CHIP LED BOARDS (4)

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6329
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	56.79
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.34
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.90 ft
Luminous Width (90-270)	0.83 ft
Luminous Height	0.00 ft

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5996	7584	8862
55	4932	6814	8565
65	3156	5723	4420
75	2458	3791	2447
85	1837	3796	3345

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**CANDELA TABULATION**

	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>45</b>
<b>0</b>	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639
<b>1</b>	2493.192	2493.059	2492.881	2492.668	2492.420	2492.136	2491.825	2491.488	2491.124	2490.743
<b>2</b>	2495.472	2495.463	2495.552	2495.712	2495.960	2496.271	2496.643	2497.060	2497.531	2496.519
<b>3</b>	2497.992	2497.477	2496.617	2495.454	2494.008	2492.295	2490.361	2489.341	2491.160	2493.263
<b>4</b>	2519.856	2519.359	2518.400	2516.954	2515.011	2512.562	2509.119	2503.201	2496.546	2492.162
<b>5</b>	2526.582	2525.863	2524.798	2523.458	2521.861	2520.060	2518.942	2517.930	2514.425	2508.959
<b>6</b>	2550.566	2549.261	2546.653	2542.749	2537.549	2531.728	2526.502	2521.639	2518.897	2516.883
<b>7</b>	2563.849	2563.476	2562.900	2562.074	2560.947	2555.970	2547.788	2537.620	2527.220	2518.995
<b>8</b>	2537.904	2538.436	2540.592	2544.434	2549.989	2556.395	2561.542	2558.525	2546.839	2532.083
<b>9</b>	2495.472	2496.856	2501.657	2509.900	2520.858	2531.231	2540.956	2550.477	2557.238	2550.655
<b>10</b>	2428.870	2431.399	2439.322	2452.544	2469.962	2489.607	2508.329	2525.295	2538.685	2550.876
<b>11</b>	2388.239	2388.577	2391.531	2397.175	2409.757	2428.692	2456.936	2485.224	2510.397	2528.693
<b>12</b>	2368.443	2368.710	2370.857	2374.885	2379.561	2385.551	2400.618	2428.923	2465.481	2500.663
<b>13</b>	2356.101	2355.879	2356.385	2357.130	2360.750	2366.269	2372.356	2382.410	2411.496	2456.634
<b>14</b>	2356.296	2354.291	2351.762	2349.233	2350.315	2350.821	2352.853	2361.655	2372.782	2406.527
<b>15</b>	2390.041	2386.074	2377.139	2363.590	2351.123	2342.915	2343.314	2343.572	2353.740	2366.518
<b>16</b>	2413.120	2412.588	2410.644	2404.548	2384.548	2360.058	2339.792	2336.038	2335.036	2346.305
<b>17</b>	2397.246	2397.929	2401.301	2405.764	2408.799	2396.855	2366.917	2335.302	2327.786	2324.903
<b>18</b>	2320.058	2326.890	2345.879	2370.076	2389.775	2397.698	2398.275	2363.004	2321.504	2318.532
<b>19</b>	2240.705	2246.845	2263.518	2289.073	2324.060	2363.270	2387.920	2389.171	2344.291	2308.061
<b>20</b>	2209.090	2211.104	2217.422	2227.635	2247.981	2286.446	2343.758	2377.370	2370.493	2315.151
<b>21</b>	2156.356	2159.355	2171.982	2188.779	2204.768	2223.624	2268.087	2339.481	2371.948	2341.717
<b>22</b>	2118.201	2120.233	2128.512	2138.938	2154.599	2186.055	2211.503	2268.913	2341.806	2357.441
<b>23</b>	2129.470	2124.377	2115.539	2110.109	2115.051	2133.446	2172.718	2210.341	2284.343	2343.918
<b>24</b>	2182.408	2174.786	2155.513	2130.171	2104.998	2099.816	2121.405	2172.062	2220.012	2302.418
<b>25</b>	2207.315	2204.529	2198.096	2181.867	2149.204	2100.224	2088.201	2119.967	2170.757	2241.033
<b>26</b>	2146.463	2157.208	2181.024	2193.420	2187.421	2147.953	2085.610	2084.492	2123.987	2184.342
<b>27</b>	2051.297	2063.010	2088.396	2125.256	2168.903	2176.614	2126.134	2067.260	2080.774	2141.476
<b>28</b>	1968.395	1981.519	2008.067	2038.449	2084.803	2150.402	2160.757	2095.415	2051.892	2089.541
<b>29</b>	1896.256	1902.822	1920.081	1953.062	2006.931	2071.031	2142.434	2133.809	2053.507	2051.049
<b>30</b>	1858.501	1860.178	1869.920	1882.503	1916.797	1997.970	2073.276	2132.416	2092.274	2026.594
<b>31</b>	1868.093	1862.520	1850.737	1845.546	1861.296	1908.909	1995.387	2081.165	2113.090	2025.157
<b>32</b>	1894.339	1890.160	1880.657	1859.698	1833.496	1849.760	1911.278	2009.558	2095.592	2054.226
<b>33</b>	1864.588	1870.994	1879.228	1880.524	1855.351	1820.798	1842.972	1933.062	2040.676	2073.179
<b>34</b>	1799.902	1810.816	1827.551	1850.453	1867.312	1838.518	1807.453	1850.559	1974.979	2060.650
<b>35</b>	1722.368	1740.647	1764.143	1791.641	1832.396	1850.976	1817.977	1801.934	1898.350	2016.133
<b>36</b>	1660.948	1669.040	1682.403	1719.138	1774.321	1818.021	1835.714	1785.873	1822.804	1953.062
<b>37</b>	1628.685	1628.055	1632.057	1651.161	1697.869	1760.381	1812.688	1801.100	1773.833	1881.260
<b>38</b>	1636.120	1633.787	1626.688	1612.713	1635.748	1688.747	1761.250	1803.300	1757.426	1807.453
<b>39</b>	1580.681	1596.164	1610.787	1620.992	1603.982	1622.349	1694.471	1770.452	1764.675	1745.997
<b>40</b>	1506.785	1519.811	1538.497	1577.779	1602.695	1591.293	1626.733	1717.869	1766.885	1721.072
<b>41</b>	1458.097	1470.866	1482.064	1507.743	1560.867	1590.033	1581.639	1648.188	1736.902	1721.747
<b>42</b>	1425.133	1430.883	1436.775	1460.431	1493.626	1548.435	1569.412	1589.226	1684.311	1725.642
<b>43</b>	1428.470	1422.338	1414.308	1417.991	1444.717	1488.071	1543.892	1553.342	1617.673	1711.933
<b>44</b>	1394.131	1406.535	1415.488	1405.550	1404.867	1437.911	1496.998	1532.215	1562.943	1675.340
<b>45</b>	1276.215	1304.174	1336.890	1391.753	1392.125	1396.118	1442.614	1501.141	1526.022	1614.221
<b>46</b>	1218.477	1229.755	1243.827	1301.290	1367.919	1375.710	1396.819	1458.390	1502.863	1555.578
<b>47</b>	1219.284	1216.258	1213.029	1228.539	1278.389	1348.726	1364.725	1407.964	1470.972	1502.455
<b>48</b>	1249.701	1236.853	1222.612	1208.237	1218.823	1290.820	1333.322	1368.407	1433.794	1465.720
<b>49</b>	1155.229	1185.016	1217.305	1209.674	1199.745	1222.132	1291.947	1334.955	1389.934	1431.451
<b>50</b>	1047.632	1071.412	1101.909	1170.792	1194.004	1194.075	1234.936	1296.437	1345.275	1397.014
<b>51</b>	1002.255	1010.995	1024.118	1076.319	1147.491	1172.451	1193.463	1255.513	1297.661	1358.301
<b>52</b>	1056.337	1033.923	1014.704	1017.126	1065.920	1132.726	1168.476	1214.564	1248.903	1315.887
<b>53</b>	957.028	982.884	1015.032	1008.120	1014.260	1064.713	1132.424	1172.389	1208.033	1272.000

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**CANDELA TABULATION - (Cont.)**

54	881.748	896.184	925.528	974.996	996.833	1013.417	1087.180	1124.802	1175.876	1227.252
55	851.588	850.612	866.974	895.341	957.125	985.218	1033.692	1080.321	1140.934	1176.506
56	814.782	831.170	839.476	853.637	898.261	946.620	982.654	1036.825	1097.837	1132.921
57	769.511	774.737	796.609	818.925	844.356	895.661	950.089	991.873	1046.212	1100.011
58	737.390	734.293	752.687	778.277	811.028	857.488	895.324	943.319	996.815	1061.270
59	651.612	670.024	704.993	731.693	768.038	805.900	848.633	907.702	958.598	1016.088
60	644.256	650.033	656.333	687.540	723.326	770.673	809.626	859.290	911.908	975.049
61	571.425	599.198	621.798	646.519	678.968	724.994	763.548	813.167	869.432	942.485
62	532.312	534.672	561.478	599.074	639.012	680.521	726.964	772.190	829.467	914.277
63	499.597	515.497	527.166	555.090	595.019	631.026	684.008	725.801	796.751	882.165
64	436.038	453.491	480.643	511.087	548.018	588.054	642.863	687.043	770.424	816.334
65	401.503	426.544	445.142	472.329	508.008	549.180	595.072	661.355	745.748	728.028
66	363.624	378.850	399.312	429.454	466.393	508.337	550.378	632.118	688.152	625.250
67	333.313	340.465	360.048	386.508	419.676	462.977	514.965	606.998	614.318	523.679
68	309.062	312.248	324.049	348.566	376.712	429.862	491.238	564.877	529.207	437.103
69	285.717	288.716	300.730	315.797	344.786	390.776	464.459	513.847	447.378	411.024
70	269.905	273.303	276.835	288.033	310.367	348.664	445.514	447.742	384.201	381.273
71	254.883	255.610	262.310	266.453	283.366	323.543	404.015	382.444	353.597	348.388
72	238.503	239.940	244.235	247.527	260.189	306.649	361.521	325.558	323.064	326.906
73	222.478	224.936	227.589	232.096	241.120	292.532	315.362	293.960	297.305	312.204
74	207.509	209.283	212.478	218.130	225.291	273.481	271.857	262.753	278.237	304.120
75	191.493	193.800	197.012	203.649	210.996	251.484	244.492	239.523	266.782	295.371
76	176.133	178.325	182.167	188.893	196.479	235.051	217.278	224.155	255.504	275.699
77	160.978	163.444	167.695	174.350	187.100	209.975	195.867	216.746	242.638	243.640
78	145.299	148.608	152.610	159.984	183.879	182.877	181.750	208.565	215.619	212.495
79	130.684	133.684	137.916	145.725	176.426	160.676	170.720	187.366	189.274	185.459
80	115.857	118.963	123.790	134.926	150.081	145.494	157.171	164.314	165.672	163.347
81	101.643	103.887	109.948	129.398	126.834	132.362	139.833	143.559	146.301	150.330
82	88.084	89.584	95.946	115.050	111.092	117.969	123.329	126.825	133.018	137.375
83	74.482	76.097	83.728	92.379	98.368	103.506	108.670	113.950	119.886	124.518
84	61.403	62.556	79.761	77.046	84.819	89.912	95.529	101.163	107.233	112.060
85	48.199	50.160	62.352	64.677	71.571	77.170	82.539	88.963	94.996	99.575
86	35.147	38.137	46.354	53.035	59.069	64.783	70.604	77.011	82.751	87.348
87	22.192	27.312	35.351	41.411	47.418	53.097	58.732	65.555	71.252	75.919
88	10.444	18.368	25.147	30.941	36.717	42.219	48.093	54.969	60.426	65.387
89	3.265	11.553	16.841	22.006	27.711	32.920	38.705	45.094	50.027	55.058
90	2.334	7.578	11.003	14.925	19.565	24.091	29.361	35.253	39.681	44.748
91	2.786	6.469	8.722	11.615	15.564	19.778	24.667	30.116	34.313	39.255
92	3.390	6.460	8.092	10.027	12.529	15.972	20.000	24.996	28.962	33.780
93	4.463	7.258	8.128	9.477	11.464	14.002	17.037	21.136	24.437	28.643
94	6.140	8.829	8.589	9.468	10.941	12.902	15.759	18.793	21.287	25.067
95	8.332	10.284	9.636	9.698	10.825	12.458	14.499	17.276	19.796	22.893
96	10.577	12.023	11.287	10.355	10.950	12.254	14.162	16.007	18.314	21.180
97	12.591	14.064	13.265	11.446	11.198	12.254	13.860	15.564	17.365	19.459
98	14.934	16.318	15.244	13.132	12.130	12.431	13.709	15.129	16.877	18.669
99	17.037	18.208	17.054	14.978	13.248	12.822	13.727	14.916	16.371	17.986
100	18.935	19.636	18.749	16.824	14.800	13.860	13.789	14.916	16.131	17.303
101	21.163	21.801	20.799	18.811	16.566	15.058	14.596	15.013	16.078	17.028
102	23.594	24.206	22.955	20.976	18.580	16.682	15.732	15.333	16.167	16.983
103	26.025	26.841	25.005	23.266	20.675	18.554	17.028	16.495	16.256	17.134
104	28.172	28.989	26.930	25.528	22.733	20.417	18.589	17.658	17.250	17.294
105	30.000	30.577	28.643	27.569	24.721	22.281	20.399	19.051	18.403	17.950
106	31.837	32.041	30.266	29.486	26.673	24.171	22.227	20.657	19.557	18.980
107	33.771	33.771	31.979	31.438	28.785	26.149	24.135	22.440	20.914	20.000
108	35.777	35.546	33.931	33.159	30.959	28.181	26.052	24.215	22.405	21.127
109	37.667	37.285	35.803	34.810	33.079	30.195	27.959	25.892	23.967	22.360

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110	39.601	39.113	37.578	36.442	35.102	32.227	29.770	27.463	25.502	23.825
111	41.482	40.914	39.379	37.995	37.010	34.215	31.411	28.971	26.939	25.280
112	43.266	42.636	41.127	39.503	38.856	36.052	32.973	30.400	28.323	26.726
113	44.863	44.206	42.636	40.843	40.027	37.613	34.437	31.784	29.681	27.942
114	46.034	45.378	43.825	41.961	40.994	38.998	35.865	33.159	30.967	29.051
115	46.939	46.291	44.783	42.831	41.846	40.249	37.294	34.490	32.183	30.142
116	47.764	47.223	45.626	43.736	42.671	41.447	38.652	35.724	33.274	31.198
117	48.510	47.915	46.345	44.623	43.479	42.529	39.823	36.895	34.357	32.236
118	49.016	48.412	46.859	45.289	44.260	43.150	40.852	38.048	35.386	33.248
119	49.477	48.811	47.392	45.910	44.987	43.736	41.811	39.157	36.478	34.233
120	49.894	49.220	47.747	46.318	45.599	44.339	42.742	40.231	37.605	35.182
121	50.080	49.397	48.040	46.629	46.096	45.005	43.594	41.260	38.669	36.087
122	50.205	49.477	48.217	46.948	46.522	45.635	44.206	42.165	39.663	37.001
123	50.382	49.654	48.483	47.250	46.895	46.291	44.836	43.017	40.515	37.906
124	50.737	49.992	48.847	47.631	47.232	46.850	45.422	43.807	41.305	38.820
125	51.154	50.382	49.211	47.960	47.543	47.392	45.919	44.375	42.068	39.761
126	51.394	50.604	49.433	48.066	47.782	47.986	46.389	44.836	42.866	40.710
127	51.420	50.639	49.575	48.181	47.835	48.137	46.877	45.386	43.692	41.669
128	51.402	50.657	49.654	48.306	47.862	48.137	47.392	45.972	44.481	42.636
129	51.340	50.639	49.663	48.394	47.871	48.164	47.933	46.620	45.209	43.630
130	51.287	50.586	49.734	48.439	47.835	48.226	48.536	47.285	45.972	44.623
131	51.234	50.568	49.725	48.528	47.818	48.297	49.149	47.995	46.762	45.404
132	51.163	50.515	49.779	48.670	47.871	48.377	49.308	48.767	47.543	46.141
133	51.181	50.542	49.929	48.856	47.951	48.474	49.486	49.583	48.306	46.877
134	51.234	50.666	50.134	49.104	48.128	48.616	49.637	50.409	49.060	47.560
135	51.402	50.835	50.347	49.344	48.403	48.776	49.814	51.092	49.770	48.208
136	51.580	51.021	50.524	49.619	48.749	48.945	49.956	51.110	50.453	48.847
137	51.784	51.234	50.772	49.929	49.122	49.087	50.018	51.056	51.110	49.468
138	52.041	51.491	51.056	50.258	49.504	49.229	50.009	50.923	51.749	50.063
139	52.290	51.757	51.305	50.622	49.814	49.220	49.921	50.728	51.527	50.630
140	52.520	51.997	51.580	50.888	50.071	49.299	49.761	50.471	51.216	51.207
141	52.689	52.183	51.722	51.048	50.213	49.397	49.557	50.160	50.870	51.580
142	52.680	52.219	51.749	51.145	50.302	49.459	49.264	49.814	50.489	51.225
143	52.654	52.201	51.757	51.189	50.329	49.468	48.891	49.433	50.098	50.906
144	52.565	52.148	51.713	51.181	50.284	49.415	48.492	49.051	49.752	50.604
145	52.432	52.041	51.598	51.065	50.169	49.308	48.421	48.661	49.415	50.276
146	52.228	51.837	51.385	50.843	50.036	49.211	48.377	48.288	49.069	49.921
147	51.917	51.553	51.119	50.630	49.912	49.122	48.368	47.969	48.740	49.557
148	51.651	51.305	50.897	50.462	49.805	49.087	48.394	47.800	48.412	49.202
149	51.420	51.092	50.719	50.311	49.743	49.078	48.465	47.871	48.066	48.811
150	51.225	50.914	50.568	50.205	49.725	49.104	48.528	47.969	47.693	48.412
151	51.074	50.772	50.453	50.116	49.717	49.140	48.581	48.057	47.534	47.995
152	50.906	50.639	50.347	50.054	49.734	49.184	48.643	48.119	47.605	47.551
153	50.772	50.533	50.267	50.000	49.743	49.220	48.678	48.164	47.685	47.205
154	50.657	50.435	50.205	49.956	49.699	49.220	48.714	48.208	47.738	47.250
155	50.568	50.355	50.134	49.885	49.610	49.220	48.723	48.244	47.764	47.276
156	50.453	50.249	50.027	49.788	49.539	49.211	48.740	48.261	47.773	47.276
157	50.320	50.134	49.921	49.699	49.468	49.193	48.723	48.244	47.764	47.259
158	50.196	50.018	49.823	49.610	49.362	49.104	48.678	48.217	47.729	47.197
159	50.036	49.867	49.681	49.468	49.237	48.989	48.625	48.146	47.658	47.117
160	49.832	49.690	49.521	49.326	49.104	48.856	48.519	48.057	47.543	47.037
161	49.672	49.530	49.362	49.166	48.945	48.670	48.377	47.915	47.427	46.939
162	49.459	49.326	49.158	48.962	48.732	48.474	48.155	47.756	47.303	46.815
163	49.202	49.078	48.918	48.732	48.501	48.226	47.915	47.605	47.152	46.655
164	48.918	48.803	48.652	48.457	48.226	47.960	47.685	47.365	46.957	46.478
165	48.590	48.474	48.323	48.137	47.924	47.685	47.410	47.081	46.726	46.265

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**CANDELA TABULATION - (Cont.)**

166	48.181	48.093	47.960	47.800	47.605	47.374	47.090	46.780	46.433	46.070
167	47.773	47.702	47.587	47.436	47.250	47.019	46.762	46.460	46.150	45.786
168	47.347	47.285	47.179	47.046	46.868	46.655	46.407	46.141	45.830	45.466
169	46.895	46.842	46.753	46.629	46.469	46.283	46.061	45.786	45.475	45.138
170	46.442	46.398	46.318	46.212	46.061	45.874	45.653	45.395	45.120	44.827
171	45.954	45.919	45.848	45.741	45.608	45.440	45.244	45.023	44.774	44.499
172	45.457	45.431	45.369	45.280	45.156	45.014	44.845	44.641	44.410	44.153
173	44.978	44.952	44.898	44.819	44.712	44.579	44.419	44.233	44.038	43.825
174	44.472	44.455	44.401	44.331	44.233	44.118	43.984	43.851	43.701	43.550
175	43.958	43.940	43.905	43.860	43.789	43.709	43.621	43.523	43.408	43.283
176	43.550	43.532	43.505	43.470	43.425	43.363	43.292	43.212	43.124	43.035
177	43.168	43.159	43.141	43.115	43.079	43.035	42.982	42.929	42.875	42.822
178	42.831	42.822	42.813	42.795	42.778	42.751	42.724	42.698	42.662	42.627
179	42.538	42.538	42.529	42.520	42.520	42.503	42.494	42.485	42.467	42.449
180	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272

**Vert. Angles**      **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639
1	2490.343	2489.935	2489.509	2489.651	2489.802	2489.962	2490.130	2490.317	2490.503	2490.290
2	2494.798	2492.943	2490.965	2490.175	2489.385	2488.604	2488.773	2489.057	2489.367	2489.012
3	2495.011	2495.809	2496.590	2493.334	2489.926	2488.649	2487.664	2487.886	2488.223	2487.797
4	2488.728	2490.468	2494.319	2495.179	2493.697	2488.737	2487.247	2486.785	2487.087	2486.661
5	2499.385	2491.098	2486.457	2491.337	2493.254	2490.406	2485.392	2484.168	2484.434	2484.150
6	2512.935	2504.044	2490.201	2484.221	2489.571	2491.124	2484.017	2481.639	2481.781	2481.834
7	2514.878	2513.307	2503.316	2486.865	2481.710	2486.750	2483.138	2477.912	2477.610	2478.515
8	2519.217	2511.861	2509.563	2496.111	2479.909	2480.982	2482.003	2474.363	2473.440	2475.170
9	2532.926	2515.668	2506.519	2502.242	2483.147	2473.901	2479.571	2471.018	2469.270	2471.816
10	2548.640	2528.063	2507.903	2502.322	2490.778	2469.500	2474.469	2467.885	2465.099	2468.480
11	2544.993	2541.843	2517.300	2499.572	2493.476	2468.773	2466.767	2461.523	2458.409	2463.262
12	2523.556	2541.453	2528.809	2498.507	2491.311	2467.841	2458.702	2455.126	2451.727	2458.169
13	2498.028	2522.704	2534.257	2503.485	2483.919	2469.341	2450.449	2449.021	2445.037	2453.138
14	2459.278	2501.089	2525.526	2510.370	2479.429	2469.793	2442.304	2442.916	2438.346	2447.947
15	2414.052	2472.091	2506.750	2514.168	2477.078	2467.637	2435.267	2435.693	2429.713	2441.141
16	2370.750	2433.679	2486.537	2510.210	2479.793	2462.659	2430.405	2428.400	2421.070	2434.087
17	2343.634	2392.428	2458.746	2497.309	2483.032	2452.872	2425.161	2419.979	2410.485	2425.392
18	2324.122	2351.407	2423.457	2476.297	2483.972	2443.528	2421.505	2410.733	2399.890	2417.139
19	2305.080	2324.157	2383.288	2452.978	2479.696	2437.796	2419.668	2400.760	2389.304	2409.287
20	2299.827	2302.285	2341.655	2423.333	2468.453	2434.771	2418.053	2390.742	2378.719	2401.168
21	2289.951	2284.858	2308.043	2388.825	2452.393	2434.620	2410.937	2377.592	2364.530	2389.872
22	2300.998	2278.274	2284.388	2352.170	2428.914	2430.645	2399.393	2364.575	2350.351	2378.621
23	2323.323	2264.174	2262.923	2314.982	2404.193	2423.644	2387.654	2351.921	2336.163	2367.645
24	2333.412	2267.901	2249.099	2279.445	2378.772	2415.507	2374.814	2339.499	2321.974	2356.899
25	2319.366	2285.639	2240.767	2250.563	2347.068	2402.871	2359.384	2326.171	2307.147	2344.725
26	2280.492	2296.127	2226.987	2226.366	2313.811	2387.982	2344.175	2312.933	2292.320	2332.480
27	2224.795	2292.613	2220.217	2206.552	2279.401	2366.500	2330.085	2299.179	2276.845	2318.860
28	2167.732	2269.268	2231.051	2194.236	2244.689	2342.924	2320.777	2285.683	2261.379	2305.186
29	2123.809	2226.685	2241.237	2183.987	2209.409	2316.846	2312.019	2272.480	2245.904	2291.601
30	2077.615	2176.489	2240.261	2170.677	2176.898	2290.253	2303.802	2259.587	2230.430	2278.096
31	2031.998	2125.957	2222.825	2162.310	2149.790	2262.258	2292.409	2246.597	2214.165	2262.843
32	2003.418	2076.417	2188.300	2165.744	2129.559	2233.420	2279.099	2233.234	2197.892	2247.404
33	1988.147	2028.467	2145.123	2168.672	2117.917	2203.890	2265.550	2219.640	2181.627	2231.911
34	1998.875	1986.834	2099.727	2164.031	2106.542	2173.286	2250.643	2205.815	2165.354	2216.357
35	2019.318	1955.786	2054.572	2153.330	2091.023	2141.964	2231.938	2188.539	2144.954	2197.315
36	2022.593	1941.500	2008.475	2130.225	2074.332	2104.244	2210.980	2170.527	2124.555	2177.847

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**CANDELA TABULATION - (Cont.)**

37	1997.907	1946.878	1961.820	2095.362	2060.171	2066.897	2186.809	2148.681	2100.011	2154.892
38	1950.622	1960.063	1923.053	2052.797	2050.792	2031.421	2156.188	2125.016	2075.477	2130.686
39	1894.073	1963.763	1895.591	2007.996	2041.963	2001.261	2124.324	2101.058	2050.943	2106.027
40	1826.415	1944.367	1878.297	1957.596	2029.682	1977.118	2091.289	2076.817	2026.408	2080.916
41	1759.440	1904.801	1872.307	1905.458	2013.089	1959.433	2055.832	2049.274	1998.963	2051.315
42	1708.153	1854.153	1871.269	1853.904	1984.047	1938.608	2019.221	2021.546	1971.510	2021.058
43	1679.901	1790.621	1866.895	1813.043	1945.715	1911.820	1982.938	1994.012	1944.065	1990.658
44	1668.268	1717.337	1844.135	1786.805	1903.009	1885.067	1946.975	1966.665	1916.620	1960.116
45	1659.200	1658.525	1800.381	1767.240	1860.399	1859.681	1909.424	1937.011	1886.176	1927.294
46	1639.341	1617.753	1752.661	1753.335	1813.984	1834.853	1870.515	1907.099	1855.723	1894.517
47	1599.554	1597.992	1701.445	1741.960	1765.084	1810.532	1829.680	1874.650	1822.280	1859.707
48	1547.424	1581.852	1640.069	1721.135	1720.061	1784.108	1787.559	1841.881	1788.828	1824.942
49	1486.217	1561.062	1581.648	1691.809	1678.064	1756.503	1745.988	1809.121	1755.376	1790.487
50	1435.231	1531.727	1530.529	1647.922	1641.347	1727.426	1706.929	1776.352	1721.933	1756.335
51	1395.568	1485.205	1502.827	1599.820	1610.681	1693.255	1672.802	1739.271	1686.644	1719.892
52	1360.741	1435.551	1476.208	1550.601	1583.964	1648.028	1641.640	1701.791	1651.356	1683.415
53	1324.582	1383.687	1448.151	1501.115	1556.546	1603.023	1611.036	1664.461	1616.076	1647.212
54	1284.955	1334.503	1413.518	1461.407	1528.125	1559.429	1580.468	1626.591	1580.787	1610.051
55	1241.884	1288.939	1375.213	1422.995	1496.376	1514.478	1509.287	1528.435	1478.763	1512.437
56	1197.314	1250.749	1337.360	1391.797	1440.875	1414.361	1409.632	1423.075	1376.730	1407.529
57	1149.993	1221.423	1299.551	1341.362	1341.566	1310.101	1270.092	1257.536	1207.962	1242.585
58	1111.634	1192.798	1253.029	1252.532	1219.586	1150.801	1104.021	1085.095	1039.185	1070.773
59	1079.345	1165.424	1164.466	1135.361	1060.871	990.737	938.847	912.511	870.417	898.837
60	1055.574	1097.863	1061.057	983.789	904.303	829.946	774.311	739.794	701.648	726.768
61	1027.437	1015.733	921.588	835.421	749.537	688.347	692.731	694.701	674.319	681.107
62	952.698	886.947	783.867	690.007	653.760	656.368	661.346	663.156	646.989	648.959
63	862.865	758.472	647.229	614.797	620.299	624.141	629.864	631.843	619.660	617.140
64	741.125	631.763	570.405	581.532	587.069	591.665	598.293	600.733	592.330	585.631
65	624.469	534.105	538.488	548.674	553.794	559.917	567.450	569.003	562.304	554.122
66	513.315	501.540	507.467	514.903	522.960	531.088	536.997	537.263	532.268	522.862
67	470.377	470.555	476.526	485.266	494.015	503.208	507.494	505.018	499.526	491.424
68	438.611	439.916	450.838	456.686	468.984	477.769	478.425	472.844	466.784	460.093
69	407.644	415.674	426.029	434.512	445.160	452.169	449.312	440.767	434.041	428.877
70	381.876	392.400	407.395	413.677	421.566	426.224	420.146	408.797	401.299	397.777
71	360.580	375.824	388.353	394.156	398.256	392.541	377.989	363.065	355.168	354.023
72	347.164	359.640	369.782	369.924	356.525	346.161	330.740	316.294	309.036	309.284
73	335.088	344.262	341.680	329.551	313.393	300.003	283.383	269.506	262.904	264.528
74	321.982	317.208	303.845	288.903	270.446	254.049	236.107	222.726	216.763	219.754
75	295.983	283.437	266.302	247.988	229.000	217.748	204.785	195.193	190.667	193.099
76	262.682	249.248	229.017	216.621	204.252	191.697	178.263	168.830	164.562	167.544
77	230.464	217.065	205.468	192.540	182.859	176.302	168.165	161.856	158.502	160.250
78	202.362	194.101	185.432	180.916	176.160	169.886	162.273	155.929	152.433	153.932
79	180.321	177.943	176.976	173.782	169.407	163.462	156.381	150.001	146.363	147.623
80	166.124	167.464	168.440	166.639	162.619	157.020	150.481	144.065	140.294	141.297
81	153.684	156.923	159.833	159.203	154.873	149.088	141.927	134.438	129.984	131.084
82	141.173	146.053	149.380	148.910	145.769	140.410	132.903	124.660	119.682	120.720
83	128.892	134.243	138.120	138.599	136.647	131.732	123.888	114.881	109.371	110.347
84	116.771	122.441	126.887	128.262	127.499	123.045	114.864	105.112	99.060	99.983
85	104.686	110.640	115.698	117.872	117.987	113.879	105.360	94.615	87.765	88.927
86	93.080	99.282	104.588	107.401	108.262	104.580	95.804	84.109	76.469	77.853
87	81.855	88.102	93.515	96.851	98.129	94.766	85.733	72.867	64.198	66.096
88	71.367	77.277	82.494	86.265	87.854	84.863	75.635	61.624	51.926	54.322
89	60.906	66.469	71.482	75.680	77.578	74.952	65.529	50.373	39.645	42.547
90	50.471	55.670	60.480	65.103	67.312	65.032	55.404	39.122	27.374	30.772
91	44.552	49.424	54.047	58.430	60.551	58.403	49.273	34.384	24.224	27.764
92	38.652	43.186	47.614	51.749	53.798	51.775	43.133	29.654	21.074	24.756

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**CANDELA TABULATION - (Cont.)**

93	32.742	36.957	41.198	45.085	47.046	45.138	36.983	24.916	17.915	21.748
94	28.705	32.227	35.848	39.131	40.710	38.732	30.959	20.213	14.765	18.758
95	25.581	28.235	31.447	34.384	35.724	33.851	26.912	17.693	13.372	17.099
96	23.665	26.140	28.634	30.710	31.367	29.335	23.070	15.218	11.979	15.466
97	21.748	24.037	26.220	27.880	28.146	26.211	21.154	14.907	12.343	15.155
98	20.178	21.943	23.807	25.040	24.916	23.106	19.246	14.596	12.706	14.845
99	19.379	20.746	21.819	22.183	21.677	20.000	17.365	14.295	13.061	14.543
100	18.580	19.796	20.790	21.083	19.991	17.897	15.812	14.029	13.425	14.286
101	17.871	18.847	19.761	20.133	19.388	17.782	16.096	14.632	14.135	14.845
102	17.587	18.181	18.731	19.184	18.802	17.667	16.380	15.235	14.854	15.413
103	17.613	17.871	18.297	18.447	18.226	17.560	16.673	15.848	15.564	15.972
104	17.862	18.075	18.048	18.243	18.128	17.640	17.019	16.460	16.282	16.549
105	18.110	18.421	18.483	18.350	18.155	17.942	17.542	17.161	17.037	17.223
106	18.651	18.776	18.918	18.882	18.696	18.430	18.110	17.871	17.800	17.915
107	19.574	19.308	19.370	19.415	19.290	19.113	18.856	18.669	18.607	18.696
108	20.488	20.089	19.938	19.947	19.894	19.796	19.592	19.477	19.406	19.486
109	21.429	20.852	20.612	20.497	20.479	20.479	20.337	20.275	20.213	20.275
110	22.529	21.615	21.278	21.038	20.941	20.958	20.958	21.038	21.021	21.012
111	23.727	22.600	21.935	21.580	21.393	21.322	21.242	21.234	21.154	21.118
112	25.005	23.629	22.778	22.112	21.846	21.677	21.518	21.438	21.287	21.225
113	26.274	24.827	23.647	22.884	22.369	22.023	21.801	21.633	21.411	21.331
114	27.498	26.007	24.703	23.691	23.079	22.556	22.156	21.855	21.544	21.464
115	28.527	27.179	25.750	24.712	23.878	23.159	22.707	22.334	21.961	21.855
116	29.530	28.128	26.788	25.723	24.845	23.958	23.337	22.831	22.378	22.272
117	30.515	28.971	27.729	26.735	25.803	24.809	24.144	23.576	23.079	22.964
118	31.447	29.796	28.563	27.658	26.744	25.661	24.951	24.321	23.771	23.647
119	32.325	30.621	29.388	28.439	27.516	26.513	25.759	25.058	24.472	24.330
120	33.133	31.464	30.213	29.202	28.137	27.179	26.469	25.786	25.173	24.996
121	33.931	32.307	31.056	29.956	28.758	27.809	27.028	26.291	25.661	25.475
122	34.739	33.177	31.890	30.684	29.379	28.439	27.596	26.806	26.140	25.963
123	35.626	34.046	32.724	31.402	30.036	29.060	28.164	27.312	26.628	26.442
124	36.655	34.916	33.550	32.094	30.710	29.716	28.749	27.826	27.116	26.939
125	37.684	35.874	34.357	32.769	31.420	30.382	29.379	28.403	27.667	27.489
126	38.714	36.895	35.138	33.443	32.139	31.083	30.027	28.980	28.226	28.048
127	39.743	37.897	36.034	34.109	32.857	31.775	30.710	29.628	28.856	28.669
128	40.763	38.882	36.913	34.987	33.576	32.467	31.393	30.266	29.486	29.282
129	41.748	39.832	37.773	35.945	34.508	33.150	32.059	30.905	30.107	29.903
130	42.724	40.746	38.634	36.913	35.493	34.109	32.866	31.580	30.737	30.559
131	43.656	41.633	39.512	37.897	36.478	35.076	33.842	32.565	31.748	31.571
132	44.579	42.494	40.409	38.882	37.463	36.052	34.827	33.541	32.760	32.574
133	45.307	43.337	41.340	39.876	38.456	37.028	35.803	34.517	33.771	33.576
134	45.954	44.171	42.299	40.870	39.450	38.031	36.788	35.502	34.783	34.588
135	46.584	44.890	43.266	41.846	40.453	39.042	37.800	36.522	35.821	35.608
136	47.205	45.564	44.224	42.822	41.447	40.080	38.820	37.543	36.868	36.646
137	47.818	46.247	45.005	43.807	42.449	41.118	39.867	38.598	37.933	37.693
138	48.430	46.957	45.795	44.650	43.443	42.157	40.905	39.663	39.007	38.749
139	49.095	47.711	46.584	45.449	44.286	43.177	41.952	40.719	40.071	39.805
140	49.770	48.474	47.374	46.247	45.085	44.002	42.884	41.757	41.145	40.843
141	50.453	49.246	48.155	47.055	45.883	44.819	43.674	42.547	41.961	41.669
142	51.145	50.018	48.927	47.862	46.691	45.626	44.464	43.328	42.778	42.485
143	51.855	50.790	49.699	48.652	47.498	46.425	45.244	44.118	43.594	43.310
144	51.518	51.562	50.489	49.433	48.323	47.214	46.025	44.907	44.410	44.126
145	51.181	52.121	51.278	50.196	49.131	48.004	46.797	45.706	45.227	44.952
146	50.817	51.686	52.068	50.985	49.938	48.785	47.569	46.496	46.043	45.777
147	50.426	51.225	51.961	51.766	50.746	49.557	48.332	47.285	46.859	46.593
148	50.009	50.746	51.429	51.864	51.553	50.320	49.104	48.084	47.667	47.418

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**CANDELA TABULATION - (Cont.)**

149	49.583	50.267	50.861	51.260	51.491	51.083	49.867	48.874	48.483	48.235
150	49.122	49.752	50.258	50.622	50.772	50.515	50.036	49.521	49.299	48.900
151	48.643	49.229	49.628	49.965	50.036	49.734	49.246	48.749	48.510	48.119
152	48.155	48.670	49.016	49.299	49.282	48.945	48.448	47.969	47.720	47.330
153	47.631	48.084	48.386	48.607	48.519	48.155	47.658	47.197	46.930	46.540
154	47.090	47.454	47.747	47.906	47.756	47.365	46.859	46.416	46.141	45.759
155	46.753	46.815	47.081	47.170	46.975	46.567	46.070	45.635	45.351	44.969
156	46.726	46.176	46.398	46.416	46.185	45.768	45.271	44.845	44.561	44.180
157	46.682	46.132	45.688	45.644	45.369	44.952	44.464	44.064	43.771	43.390
158	46.638	46.087	45.493	44.845	44.535	44.126	43.665	43.275	42.982	42.609
159	46.584	46.034	45.413	44.677	43.834	43.301	42.858	42.494	42.192	41.819
160	46.513	45.945	45.315	44.588	43.771	43.000	42.281	41.757	41.402	41.101
161	46.407	45.839	45.209	44.490	43.718	42.982	42.299	41.819	41.473	41.181
162	46.283	45.715	45.094	44.375	43.656	42.955	42.316	41.882	41.544	41.260
163	46.132	45.582	44.952	44.268	43.576	42.937	42.334	41.944	41.615	41.349
164	45.972	45.431	44.801	44.162	43.505	42.911	42.361	41.997	41.686	41.429
165	45.795	45.244	44.650	44.047	43.434	42.884	42.387	42.059	41.757	41.518
166	45.591	45.049	44.499	43.922	43.372	42.858	42.414	42.112	41.837	41.606
167	45.351	44.854	44.348	43.807	43.310	42.831	42.449	42.174	41.908	41.686
168	45.067	44.659	44.171	43.692	43.248	42.804	42.485	42.228	41.979	41.775
169	44.792	44.393	43.976	43.585	43.186	42.795	42.520	42.281	42.050	41.864
170	44.499	44.126	43.763	43.425	43.088	42.778	42.547	42.334	42.121	41.944
171	44.189	43.869	43.567	43.275	42.964	42.724	42.529	42.325	42.139	41.979
172	43.887	43.638	43.390	43.124	42.875	42.680	42.503	42.325	42.157	42.006
173	43.630	43.417	43.204	42.982	42.795	42.636	42.476	42.316	42.165	42.032
174	43.381	43.212	43.026	42.866	42.724	42.582	42.449	42.316	42.183	42.059
175	43.150	43.017	42.884	42.760	42.645	42.529	42.423	42.307	42.201	42.094
176	42.937	42.849	42.751	42.662	42.574	42.476	42.396	42.307	42.210	42.130
177	42.760	42.698	42.627	42.565	42.494	42.432	42.370	42.299	42.228	42.165
178	42.591	42.547	42.512	42.467	42.423	42.378	42.334	42.290	42.245	42.201
179	42.432	42.414	42.396	42.378	42.352	42.325	42.307	42.281	42.263	42.236
180	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272

**Vert. Angles**      **Horizontal Angles**

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639
1	2490.086	2489.891	2489.713	2489.536	2489.385	2489.580	2489.758	2489.935	2490.095	2490.246
2	2488.666	2488.436	2488.977	2489.492	2489.988	2492.278	2494.443	2496.457	2498.755	2501.896
3	2487.504	2488.533	2489.829	2493.591	2497.220	2503.706	2509.820	2516.191	2522.482	2528.232
4	2487.424	2489.438	2494.638	2502.296	2511.426	2521.408	2530.078	2535.890	2541.213	2545.659
5	2486.137	2491.470	2500.965	2513.467	2526.670	2535.002	2542.757	2549.155	2550.450	2549.288
6	2485.268	2493.768	2508.516	2524.035	2534.133	2544.665	2548.285	2543.955	2535.233	2524.638
7	2484.017	2497.052	2515.242	2528.871	2542.420	2545.961	2535.260	2520.530	2504.913	2490.077
8	2482.322	2499.598	2518.338	2533.662	2542.012	2529.146	2510.423	2490.290	2470.450	2451.914
9	2481.062	2502.420	2520.450	2535.251	2528.392	2506.040	2481.692	2456.971	2433.821	2418.612
10	2480.902	2504.203	2523.591	2530.024	2508.480	2480.485	2450.831	2423.315	2409.331	2403.262
11	2479.163	2503.139	2524.195	2516.972	2487.256	2452.890	2419.766	2403.572	2395.835	2376.039
12	2477.380	2501.657	2519.385	2495.206	2461.088	2424.451	2400.289	2390.706	2363.368	2334.175
13	2475.525	2501.293	2504.789	2473.147	2432.206	2398.577	2388.248	2359.668	2323.944	2307.760
14	2473.236	2499.802	2487.193	2447.566	2402.951	2382.942	2360.875	2322.640	2302.755	2323.891
15	2468.675	2494.461	2468.941	2421.736	2381.913	2365.577	2322.436	2295.568	2316.198	2360.715
16	2462.934	2485.108	2449.757	2396.030	2367.068	2333.323	2292.276	2301.921	2351.558	2368.124
17	2455.765	2470.325	2427.530	2372.365	2349.730	2298.709	2282.524	2333.794	2358.452	2350.386
18	2448.799	2455.268	2403.865	2354.450	2321.761	2273.917	2302.214	2346.349	2340.626	2315.745
19	2442.357	2439.322	2380.467	2338.763	2289.037	2265.674	2325.941	2334.983	2310.084	2272.364



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**CANDELA TABULATION - (Cont.)**

20	2435.560	2423.457	2357.680	2321.265	2262.497	2278.833	2327.919	2310.847	2268.993	2223.287
21	2426.243	2405.604	2336.180	2297.839	2244.148	2298.159	2312.312	2276.375	2224.005	2183.242
22	2414.673	2382.836	2315.426	2268.700	2238.992	2304.468	2288.673	2236.934	2179.418	2138.264
23	2402.206	2357.130	2294.627	2235.878	2248.593	2295.807	2257.165	2191.201	2140.775	2094.191
24	2387.858	2331.611	2273.119	2214.005	2262.196	2274.299	2219.063	2150.269	2095.442	2067.154
25	2370.502	2306.437	2245.789	2199.693	2264.893	2246.863	2179.418	2111.271	2063.001	2076.169
26	2352.933	2281.814	2215.461	2196.836	2252.621	2209.835	2133.596	2069.053	2051.573	2082.726
27	2334.974	2260.474	2184.298	2203.171	2230.119	2169.222	2091.617	2042.540	2060.570	2071.724
28	2315.994	2239.640	2161.813	2210.687	2204.706	2123.800	2047.695	2029.931	2059.727	2036.178
29	2297.200	2218.637	2143.996	2206.960	2173.996	2080.659	2015.609	2034.997	2044.811	1999.354
30	2278.576	2196.995	2129.506	2194.218	2139.346	2038.653	1998.182	2030.614	2005.494	1966.745
31	2257.661	2172.843	2118.956	2174.697	2101.023	1998.280	1997.845	2011.412	1969.345	1929.548
32	2234.848	2142.372	2113.295	2151.786	2058.156	1970.968	1997.872	1974.180	1933.302	1878.660
33	2211.308	2111.227	2113.516	2123.472	2017.863	1953.630	1989.238	1941.075	1886.203	1830.585
34	2186.436	2081.750	2112.212	2090.517	1976.221	1948.031	1961.864	1908.155	1837.276	1810.159
35	2159.790	2055.184	2104.182	2054.137	1938.351	1947.002	1923.009	1863.709	1795.510	1796.690
36	2132.798	2033.418	2089.701	2014.190	1911.704	1936.425	1894.783	1814.161	1780.434	1761.277
37	2105.211	2013.249	2066.941	1970.924	1894.570	1915.058	1866.344	1775.652	1760.629	1720.930
38	2077.544	1992.122	2039.762	1925.076	1885.706	1882.822	1814.942	1749.946	1729.679	1683.237
39	2049.230	1972.805	2007.313	1879.131	1875.892	1850.248	1765.643	1735.465	1692.004	1629.785
40	2020.286	1956.186	1972.095	1842.245	1862.414	1818.074	1728.331	1705.110	1660.859	1591.524
41	1985.405	1941.980	1936.114	1813.434	1837.808	1772.173	1703.202	1672.225	1608.356	1561.940
42	1945.343	1923.914	1896.593	1789.591	1804.339	1718.712	1675.766	1635.606	1564.656	1541.257
43	1904.863	1903.559	1848.403	1770.789	1765.785	1676.609	1647.549	1590.211	1536.270	1507.974
44	1863.984	1881.660	1797.462	1754.427	1737.621	1643.299	1615.118	1543.981	1508.062	1454.282
45	1823.886	1857.986	1745.962	1736.467	1693.397	1613.902	1579.359	1506.394	1471.407	1410.821
46	1786.415	1828.030	1702.146	1712.252	1642.181	1585.224	1534.620	1476.075	1426.074	1357.120
47	1750.594	1796.122	1664.595	1681.720	1592.340	1553.440	1484.034	1442.330	1381.646	1323.677
48	1716.636	1755.589	1634.381	1639.519	1551.727	1518.063	1442.507	1400.936	1332.604	1294.733
49	1685.216	1712.394	1607.389	1595.730	1515.889	1478.914	1408.044	1357.573	1292.044	1258.237
50	1657.061	1669.031	1582.411	1550.467	1481.123	1433.270	1371.042	1314.609	1258.548	1215.078
51	1629.590	1625.606	1559.092	1503.005	1448.781	1382.462	1327.182	1268.362	1221.778	1169.328
52	1601.772	1578.737	1536.324	1455.178	1414.255	1338.930	1287.191	1223.836	1182.886	1123.871
53	1573.485	1533.120	1507.619	1413.980	1376.579	1298.957	1244.076	1184.617	1136.542	1087.970
54	1545.002	1488.399	1472.942	1385.311	1335.266	1259.506	1203.126	1145.521	1095.379	1045.245
55	1477.965	1442.711	1432.285	1356.845	1297.510	1217.971	1157.003	1099.922	1050.418	1002.068
56	1383.225	1345.470	1369.623	1329.117	1258.788	1183.472	1110.028	1060.977	1006.656	965.795
57	1248.903	1245.984	1266.907	1276.206	1222.124	1154.270	1065.316	1021.270	961.819	918.208
58	1087.366	1094.944	1144.678	1185.380	1178.050	1125.743	1035.636	972.387	922.067	871.969
59	924.481	943.159	990.187	1070.135	1090.419	1096.541	1011.651	924.880	882.511	834.746
60	760.886	790.655	839.192	922.041	989.868	1023.914	988.501	895.767	834.382	784.657
61	678.383	656.714	690.024	775.287	854.862	938.208	954.614	872.599	793.530	735.091
62	645.046	629.500	601.523	630.130	721.817	810.034	875.013	845.953	761.924	698.658
63	611.417	600.787	576.270	558.399	590.094	686.839	786.228	812.297	734.825	653.467
64	577.494	570.635	550.050	531.017	518.523	567.796	668.551	748.135	710.592	598.054
65	544.584	539.704	522.924	504.113	492.906	475.737	551.611	662.615	686.200	573.235
66	512.782	509.721	496.127	478.629	467.360	448.345	435.692	559.384	623.449	567.379
67	482.675	480.182	469.765	455.284	442.932	422.710	403.456	458.647	544.131	550.484
68	453.554	452.223	444.556	432.249	420.102	398.025	383.810	371.929	453.944	510.857
69	424.813	424.538	420.323	410.226	397.759	376.792	362.799	345.842	371.317	456.393
70	396.437	397.812	396.242	387.803	377.102	357.688	342.355	322.168	312.354	381.672
71	357.599	365.957	372.275	365.132	357.066	342.488	322.967	301.050	290.056	310.109
72	314.546	324.475	334.360	339.231	338.317	327.590	308.974	289.080	268.769	254.333
73	271.449	282.842	294.271	302.683	312.585	313.472	297.137	279.426	251.431	232.691
74	228.307	241.067	254.359	266.063	278.689	289.000	286.702	269.683	235.495	212.833
75	199.203	207.606	215.965	229.337	244.510	256.782	265.318	261.014	229.789	199.221

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**CANDELA TABULATION - (Cont.)**

76	174.314	183.152	192.495	200.880	210.029	224.776	235.938	244.288	225.708	191.164
77	163.977	168.192	172.096	178.733	187.872	195.574	206.799	215.663	217.553	187.446
78	157.384	161.297	164.713	167.251	168.919	175.104	181.049	187.402	191.768	183.311
79	150.791	154.394	157.331	159.655	160.729	160.632	160.844	163.285	166.568	165.467
80	144.181	147.481	149.957	152.051	152.504	151.022	148.236	143.790	144.793	144.855
81	134.722	138.963	141.989	144.305	144.225	141.368	137.384	132.601	127.632	126.106
82	124.757	129.646	133.151	134.944	134.580	131.430	126.541	121.447	116.408	111.226
83	114.793	120.338	124.314	125.574	124.296	120.605	115.573	110.338	105.263	100.223
84	104.837	111.030	115.485	116.177	113.994	109.788	104.588	99.309	94.171	89.291
85	94.855	101.918	106.567	106.745	103.754	98.989	93.639	88.324	83.133	78.226
86	84.872	92.858	97.605	97.268	93.728	88.697	83.133	77.561	72.139	67.161
87	74.872	83.994	88.528	87.756	83.852	78.617	72.964	67.427	61.988	56.629
88	64.863	75.156	79.415	78.226	74.136	68.945	63.461	57.969	52.520	47.046
89	54.854	66.318	70.302	68.705	64.437	59.291	53.976	48.670	43.488	38.261
90	44.845	57.472	61.181	59.184	54.748	49.646	44.508	39.397	34.472	29.503
91	40.630	51.819	54.952	52.973	48.811	44.029	39.193	34.366	29.681	25.005
92	36.407	46.167	48.732	46.771	42.884	38.421	33.887	29.344	24.898	20.524
93	32.183	40.515	42.503	40.568	36.957	32.813	28.581	24.650	20.923	17.303
94	28.039	35.067	36.708	35.094	32.085	28.625	25.085	21.535	18.270	15.599
95	25.102	30.976	32.290	30.825	28.137	25.138	22.485	19.832	17.223	14.703
96	22.281	27.196	28.510	27.640	25.750	23.452	21.047	18.607	16.176	13.966
97	20.630	24.667	25.883	25.297	23.754	21.757	19.601	17.374	15.546	13.780
98	18.989	22.148	23.248	22.955	21.748	20.062	18.447	16.895	15.262	13.603
99	17.356	19.619	20.612	20.595	20.169	19.210	17.924	16.504	14.978	13.576
100	16.016	17.915	19.299	19.858	19.512	18.598	17.409	16.114	14.907	13.691
101	16.282	17.826	18.900	19.264	18.864	17.977	16.957	16.016	14.987	13.878
102	16.549	17.746	18.501	18.669	18.208	17.578	16.832	16.096	15.182	14.250
103	16.824	17.667	18.119	18.226	17.986	17.445	16.957	16.327	15.377	15.297
104	17.152	17.764	18.128	18.181	17.906	17.684	17.241	16.566	16.211	16.344
105	17.649	18.057	18.234	18.376	18.332	18.039	17.525	17.143	17.161	17.587
106	18.208	18.536	18.776	18.873	18.758	18.394	18.004	17.959	18.119	19.006
107	18.935	19.193	19.361	19.370	19.202	18.847	18.714	18.758	19.290	20.568
108	19.663	19.849	19.947	19.876	19.654	19.459	19.415	19.690	20.586	22.112
109	20.399	20.515	20.497	20.293	20.124	20.062	20.142	20.728	21.988	23.549
110	20.958	20.870	20.746	20.666	20.586	20.666	21.065	21.988	23.399	24.934
111	21.074	21.038	20.994	21.029	21.038	21.482	22.130	23.230	24.712	26.282
112	21.189	21.207	21.225	21.393	21.730	22.352	23.328	24.446	25.892	27.613
113	21.305	21.376	21.544	22.014	22.467	23.372	24.526	25.581	27.028	28.891
114	21.518	21.748	22.077	22.671	23.452	24.384	25.670	26.691	28.137	30.045
115	21.935	22.201	22.707	23.541	24.437	25.386	26.549	27.791	29.237	31.154
116	22.440	22.875	23.523	24.401	25.413	26.265	27.418	28.838	30.320	32.272
117	23.150	23.612	24.339	25.253	26.274	27.099	28.270	29.814	31.402	33.523
118	23.860	24.339	25.147	25.998	26.983	27.915	29.104	30.701	32.476	34.783
119	24.561	25.067	25.830	26.611	27.676	28.723	29.938	31.562	33.558	36.034
120	25.182	25.599	26.380	27.214	28.368	29.512	30.755	32.396	34.632	37.134
121	25.670	26.105	26.921	27.826	29.042	30.293	31.580	33.266	35.688	38.155
122	26.149	26.620	27.454	28.456	29.699	31.074	32.396	34.268	36.655	39.042
123	26.628	27.125	28.004	29.095	30.364	31.837	33.266	35.262	37.560	39.885
124	27.143	27.693	28.554	29.743	31.030	32.574	34.268	36.256	38.430	40.666
125	27.693	28.261	29.122	30.382	31.695	33.381	35.253	37.214	39.273	41.269
126	28.279	28.891	29.707	31.003	32.387	34.259	36.220	38.181	40.125	41.846
127	28.918	29.521	30.302	31.597	33.301	35.120	37.161	39.104	40.985	42.449
128	29.548	30.151	30.905	32.396	34.197	35.990	38.057	40.018	41.784	43.071
129	30.187	30.772	31.775	33.257	35.076	36.886	38.936	40.914	42.494	43.709
130	30.985	31.731	32.742	34.126	35.954	37.791	39.787	41.802	43.168	44.384
131	31.988	32.698	33.718	35.005	36.806	38.687	40.648	42.476	43.825	45.085

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**CANDELA TABULATION - (Cont.)**

132	32.991	33.656	34.694	35.910	37.649	39.557	41.518	43.115	44.508	45.795
133	33.984	34.623	35.679	36.824	38.492	40.409	42.254	43.754	45.182	46.513
134	34.987	35.617	36.664	37.773	39.344	41.243	42.875	44.393	45.866	47.205
135	36.007	36.611	37.649	38.740	40.196	41.908	43.479	45.014	46.513	47.711
136	37.028	37.631	38.625	39.708	41.056	42.520	44.073	45.617	47.134	47.543
137	38.066	38.652	39.601	40.684	41.775	43.141	44.659	46.212	47.764	47.339
138	39.104	39.681	40.577	41.518	42.503	43.780	45.244	46.797	48.394	47.099
139	40.142	40.710	41.420	42.307	43.239	44.428	45.839	47.374	48.057	46.780
140	41.092	41.544	42.210	43.097	43.993	45.094	46.433	47.924	47.614	46.433
141	41.899	42.370	43.017	43.878	44.765	45.786	47.046	48.226	47.143	46.034
142	42.716	43.195	43.825	44.668	45.546	46.496	47.667	47.693	46.646	45.582
143	43.532	44.020	44.650	45.440	46.327	47.214	48.297	47.170	46.141	45.094
144	44.339	44.845	45.475	46.212	47.099	47.951	47.791	46.664	45.617	44.588
145	45.156	45.661	46.291	46.984	47.880	48.474	47.285	46.158	45.076	44.064
146	45.963	46.478	47.108	47.756	48.643	47.969	46.788	45.661	44.535	43.550
147	46.771	47.294	47.924	48.545	48.439	47.436	46.291	45.165	44.047	43.017
148	47.578	48.102	48.732	48.625	47.800	46.886	45.795	44.677	43.559	42.662
149	48.394	48.900	48.670	47.977	47.161	46.300	45.289	44.189	43.097	42.662
150	48.590	48.323	47.933	47.321	46.513	45.688	44.756	43.709	42.636	42.698
151	47.800	47.534	47.179	46.646	45.857	45.067	44.206	43.230	42.449	42.760
152	47.001	46.735	46.416	45.945	45.218	44.428	43.630	42.733	42.520	42.813
153	46.212	45.945	45.644	45.227	44.570	43.780	43.017	42.334	42.600	42.875
154	45.413	45.147	44.872	44.490	43.922	43.150	42.405	42.352	42.662	42.929
155	44.623	44.348	44.082	43.745	43.248	42.538	42.032	42.352	42.689	42.973
156	43.834	43.559	43.292	42.991	42.565	41.926	42.050	42.352	42.680	43.000
157	43.035	42.760	42.503	42.219	41.846	41.944	42.103	42.361	42.653	42.982
158	42.245	41.970	41.713	41.447	41.704	41.979	42.174	42.352	42.636	42.937
159	41.456	41.181	41.065	41.349	41.704	42.006	42.228	42.387	42.618	42.893
160	40.914	40.941	41.101	41.349	41.686	42.015	42.254	42.441	42.618	42.858
161	41.003	41.003	41.127	41.349	41.669	42.006	42.263	42.485	42.645	42.840
162	41.083	41.065	41.154	41.349	41.651	41.970	42.272	42.485	42.680	42.849
163	41.172	41.136	41.198	41.367	41.615	41.935	42.245	42.476	42.689	42.866
164	41.269	41.216	41.243	41.385	41.580	41.890	42.183	42.458	42.653	42.822
165	41.358	41.287	41.305	41.402	41.562	41.828	42.112	42.405	42.618	42.733
166	41.456	41.358	41.376	41.429	41.571	41.757	42.041	42.307	42.512	42.653
167	41.544	41.447	41.438	41.473	41.580	41.722	41.952	42.157	42.343	42.520
168	41.633	41.527	41.518	41.535	41.589	41.704	41.819	41.997	42.174	42.334
169	41.722	41.624	41.598	41.598	41.598	41.660	41.748	41.855	42.006	42.148
170	41.802	41.713	41.633	41.615	41.615	41.624	41.686	41.757	41.846	41.961
171	41.837	41.748	41.669	41.633	41.624	41.624	41.642	41.695	41.757	41.819
172	41.882	41.784	41.713	41.660	41.642	41.642	41.642	41.660	41.686	41.740
173	41.926	41.828	41.766	41.704	41.660	41.660	41.651	41.660	41.660	41.677
174	41.970	41.882	41.811	41.766	41.713	41.677	41.669	41.669	41.669	41.677
175	42.015	41.935	41.873	41.819	41.784	41.740	41.713	41.686	41.686	41.686
176	42.059	41.997	41.935	41.890	41.846	41.811	41.784	41.757	41.740	41.722
177	42.103	42.059	42.015	41.970	41.926	41.899	41.864	41.846	41.828	41.811
178	42.157	42.121	42.086	42.059	42.032	42.006	41.979	41.961	41.944	41.926
179	42.219	42.201	42.174	42.157	42.139	42.130	42.112	42.103	42.094	42.086
180	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272

**Vert. Angles**      **Horizontal Angles**

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639
1	2490.370	2490.494	2490.592	2490.681	2490.752	2490.814	2490.867	2490.681	2490.476	2490.264
2	2504.674	2507.069	2509.066	2510.645	2511.808	2512.535	2512.819	2512.384	2511.506	2510.175

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**CANDELA TABULATION - (Cont.)**

3	2532.172	2535.189	2537.788	2539.927	2541.586	2542.740	2543.361	2542.784	2541.675	2540.051
4	2549.519	2550.992	2551.861	2552.660	2553.352	2553.929	2554.364	2553.175	2551.915	2550.646
5	2544.470	2540.175	2534.834	2530.743	2527.975	2526.537	2526.475	2525.268	2525.543	2527.362
6	2514.061	2504.514	2496.581	2490.512	2486.377	2484.194	2483.955	2482.775	2483.493	2486.040
7	2476.421	2464.238	2454.309	2446.492	2441.044	2438.071	2437.628	2436.314	2437.557	2441.310
8	2435.693	2425.161	2417.388	2414.859	2413.209	2412.446	2412.561	2410.777	2409.819	2409.633
9	2411.505	2407.370	2403.901	2396.545	2390.901	2388.151	2388.186	2386.128	2386.775	2390.174
10	2393.617	2377.982	2363.102	2351.646	2343.527	2339.011	2338.328	2336.225	2338.212	2344.326
11	2352.294	2332.853	2321.824	2317.600	2319.339	2320.555	2321.344	2321.034	2319.100	2314.246
12	2315.905	2315.568	2331.061	2347.157	2359.384	2366.562	2368.789	2366.491	2359.916	2349.597
13	2322.587	2353.155	2374.291	2384.593	2386.917	2388.896	2390.325	2386.864	2383.492	2381.008
14	2363.199	2380.085	2382.436	2379.286	2372.498	2369.446	2369.828	2365.852	2365.728	2370.156
15	2375.134	2370.963	2357.405	2343.243	2331.850	2326.154	2325.896	2322.480	2324.131	2330.883
16	2357.645	2337.316	2315.036	2298.230	2284.325	2276.313	2274.991	2271.033	2274.263	2284.476
17	2323.492	2294.139	2268.052	2245.514	2234.680	2229.560	2228.895	2225.399	2226.641	2232.941
18	2281.442	2245.310	2222.941	2207.989	2194.546	2187.270	2187.519	2183.694	2186.516	2194.857
19	2233.491	2206.295	2181.228	2155.921	2139.479	2130.650	2129.275	2125.486	2130.677	2144.360
20	2195.336	2161.875	2127.660	2108.618	2103.010	2103.428	2103.969	2102.762	2098.308	2095.530
21	2148.326	2111.742	2095.309	2105.947	2119.240	2126.267	2129.754	2126.001	2119.035	2105.557
22	2100.411	2088.663	2108.574	2125.451	2131.919	2132.257	2133.703	2129.559	2126.915	2121.653
23	2080.153	2103.738	2121.094	2121.689	2115.247	2107.092	2107.261	2101.715	2105.548	2111.280
24	2092.735	2111.023	2108.095	2085.566	2068.254	2061.386	2061.386	2056.435	2060.969	2071.466
25	2097.988	2092.593	2063.161	2043.010	2026.541	2019.105	2017.819	2015.006	2015.370	2026.115
26	2078.565	2046.666	2026.222	2006.035	1998.724	1989.079	1989.265	1983.462	1986.976	1993.213
27	2035.148	2010.428	1994.536	1971.243	1947.517	1932.388	1930.214	1924.038	1933.106	1954.961
28	2001.519	1976.070	1950.400	1914.304	1889.557	1888.945	1890.453	1888.882	1887.480	1892.547
29	1967.321	1928.759	1893.701	1875.431	1883.612	1886.025	1889.379	1883.106	1882.680	1875.422
30	1922.024	1873.363	1864.570	1872.014	1864.392	1858.048	1858.776	1852.076	1856.371	1863.221
31	1869.885	1853.390	1855.590	1844.232	1821.561	1802.839	1800.993	1795.306	1803.762	1825.723
32	1837.365	1839.956	1822.937	1791.996	1769.999	1760.452	1758.296	1751.401	1753.522	1769.085
33	1829.876	1809.370	1770.159	1752.368	1731.738	1720.655	1720.070	1713.894	1716.831	1726.228
34	1803.993	1755.767	1732.758	1711.472	1687.239	1673.015	1669.484	1667.833	1671.170	1690.797
35	1761.605	1723.477	1687.541	1665.943	1651.799	1653.663	1655.615	1653.964	1648.907	1647.531
36	1722.137	1676.627	1644.923	1638.729	1642.722	1639.599	1641.311	1636.484	1638.853	1637.185
37	1681.037	1634.825	1624.443	1624.470	1611.968	1593.121	1592.491	1583.973	1597.442	1614.310
38	1632.074	1608.800	1603.671	1584.798	1544.904	1516.110	1510.645	1501.922	1522.943	1555.525
39	1597.637	1592.455	1558.196	1512.277	1474.886	1450.910	1445.586	1441.327	1445.001	1472.437
40	1575.073	1556.084	1490.502	1447.982	1428.106	1423.146	1421.070	1419.685	1415.959	1416.722
41	1545.055	1488.816	1432.063	1412.223	1408.816	1411.256	1415.692	1414.344	1409.907	1402.365
42	1487.379	1436.473	1398.833	1393.465	1397.210	1390.546	1392.675	1384.654	1394.832	1394.565
43	1436.438	1388.194	1378.026	1373.900	1360.235	1336.322	1333.385	1325.949	1341.033	1356.260
44	1380.244	1365.106	1356.251	1327.661	1299.516	1269.001	1265.842	1258.495	1277.865	1298.673
45	1353.669	1338.735	1314.795	1266.188	1235.566	1209.089	1202.150	1201.307	1216.196	1229.976
46	1327.830	1298.602	1258.708	1204.723	1187.704	1194.989	1197.261	1194.856	1183.889	1182.203
47	1299.116	1249.586	1197.137	1178.636	1184.492	1175.255	1175.557	1175.459	1185.681	1178.246
48	1256.223	1186.986	1165.166	1159.709	1146.701	1125.237	1120.135	1113.737	1133.605	1152.123
49	1207.163	1153.454	1143.463	1115.831	1085.751	1057.339	1050.738	1044.305	1061.678	1086.195
50	1157.225	1134.678	1099.833	1058.608	1023.603	1011.216	1012.565	1007.676	1012.627	1024.260
51	1123.604	1090.694	1041.456	1003.293	993.372	985.546	983.026	978.741	981.766	989.016
52	1087.375	1047.038	995.413	977.028	957.818	942.218	941.313	933.833	942.502	957.196
53	1047.428	994.242	962.307	938.518	903.913	878.172	868.961	864.640	879.290	916.788
54	997.623	962.006	921.801	885.306	849.698	841.117	842.670	837.178	836.929	845.820
55	954.384	925.040	866.583	836.556	817.399	803.167	799.963	795.642	806.192	821.046
56	915.342	872.706	822.279	798.366	768.002	744.949	739.377	736.112	746.671	779.812
57	874.977	817.869	786.698	751.879	717.256	709.244	711.906	707.460	709.874	725.215
58	825.012	781.977	747.159	708.587	693.228	682.970	681.595	678.054	685.623	695.357

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**CANDELA TABULATION - (Cont.)**

59	770.389	735.500	701.542	666.874	639.456	611.905	592.197	591.470	606.758	640.938
60	740.983	693.512	669.501	620.041	584.549	587.716	595.720	589.633	586.146	591.727
61	691.089	651.346	616.980	579.038	563.191	543.173	526.855	523.971	544.096	568.045
62	644.416	617.122	566.731	537.139	501.824	477.937	473.492	469.614	474.015	501.318
63	612.180	568.896	526.891	492.667	469.916	458.931	454.911	454.698	466.216	466.189
64	575.560	516.190	485.648	451.318	421.291	394.449	394.689	389.001	398.717	433.269
65	528.621	473.776	434.636	412.160	385.381	367.874	355.886	359.604	376.410	393.757
66	484.841	440.146	392.941	370.776	338.663	322.097	327.891	321.174	324.351	352.435
67	437.671	396.135	358.282	330.136	306.658	288.973	283.162	284.892	294.253	313.623
68	417.715	350.243	313.872	291.715	276.728	272.132	269.515	268.192	271.014	278.592
69	408.336	317.572	280.464	265.415	257.465	252.061	252.052	250.792	253.250	256.684
70	383.553	287.855	259.293	245.211	240.606	237.021	236.737	235.805	238.458	239.763
71	345.185	269.035	234.368	228.760	226.586	222.433	223.374	221.848	224.714	225.486
72	304.741	259.967	220.339	215.077	213.019	208.201	209.044	207.766	211.377	212.300
73	252.150	258.183	207.278	202.043	198.928	194.075	195.166	194.225	197.588	199.230
74	204.962	235.859	194.057	187.792	183.649	180.712	181.679	181.164	183.125	185.956
75	191.661	204.110	183.285	174.660	169.265	167.703	168.369	168.458	169.496	172.974
76	178.555	177.925	172.806	161.821	155.822	154.518	154.766	155.645	156.710	160.356
77	167.712	161.776	158.183	149.638	143.009	141.616	142.122	143.338	144.642	148.404
78	158.999	148.937	144.678	137.472	130.933	128.014	129.007	130.516	132.912	140.410
79	151.483	137.366	131.448	125.432	118.546	114.730	116.514	118.120	121.270	143.107
80	141.137	127.295	118.945	113.595	106.123	101.847	103.763	105.999	109.584	135.165
81	123.896	117.410	107.286	101.376	94.287	89.655	91.456	94.659	98.306	108.510
82	107.889	104.606	96.993	89.389	82.654	77.055	79.309	83.133	87.836	89.282
83	94.677	90.604	86.691	77.649	70.897	64.748	67.605	71.891	77.090	77.942
84	83.772	78.120	74.011	66.824	60.214	53.434	55.875	61.491	65.094	67.569
85	72.964	67.392	62.166	56.247	49.415	41.811	43.780	50.506	53.772	57.037
86	62.175	56.833	51.553	45.759	39.344	31.376	32.139	40.222	43.523	46.309
87	51.482	46.513	41.314	35.945	29.770	21.837	20.799	30.320	33.913	36.859
88	41.819	36.797	31.358	26.424	20.843	13.487	9.734	21.198	25.351	28.456
89	33.159	28.208	22.831	17.684	12.653	7.152	3.256	15.235	18.421	21.526
90	24.543	19.965	15.022	10.515	6.584	3.487	2.422	11.615	14.073	16.886
91	20.355	15.998	11.588	7.729	4.996	3.354	2.644	10.754	12.715	15.084
92	16.185	12.573	9.157	6.823	5.067	3.940	3.265	10.595	12.493	14.392
93	13.736	11.100	8.731	6.823	5.457	5.466	4.295	11.198	12.573	14.250
94	12.990	10.550	8.616	7.045	6.327	7.223	5.830	12.254	13.070	14.304
95	12.263	10.391	8.705	7.498	7.746	8.944	7.649	13.070	13.993	14.614
96	12.139	10.382	8.989	8.367	9.574	10.674	9.707	14.011	15.413	15.324
97	12.041	10.532	9.361	9.645	11.446	12.547	11.730	15.155	16.859	16.362
98	12.085	10.834	10.373	11.446	13.239	14.499	13.860	16.495	18.092	17.782
99	12.281	11.313	11.580	13.319	15.244	16.478	15.510	17.968	19.557	19.255
100	12.511	12.334	13.194	15.191	17.143	18.146	17.383	19.415	21.029	20.683
101	13.292	13.496	14.978	16.974	19.006	19.823	19.299	20.976	22.440	22.077
102	14.357	15.058	16.806	18.900	20.923	21.730	21.358	22.733	23.967	23.594
103	15.572	16.868	18.660	20.932	22.742	23.665	23.408	24.526	25.395	25.271
104	17.063	18.678	20.568	22.973	24.517	25.546	25.475	26.211	26.824	27.037
105	18.776	20.435	22.494	24.987	26.194	27.187	27.187	27.729	28.190	28.723
106	20.488	22.192	24.392	26.904	27.880	28.731	28.882	29.193	29.539	30.284
107	22.121	23.922	26.265	28.873	29.477	30.222	30.453	30.621	30.861	31.864
108	23.745	25.635	28.066	30.329	30.941	31.580	31.802	31.926	32.219	33.026
109	25.315	27.383	29.885	31.704	32.378	32.928	33.248	33.257	33.594	34.091
110	26.841	29.086	31.704	33.035	33.834	34.375	34.863	34.694	34.987	35.227
111	28.323	30.790	33.514	34.401	35.298	35.892	36.469	36.158	36.407	36.336
112	29.734	32.440	35.227	35.653	36.637	37.312	37.915	37.507	37.693	37.401
113	31.127	33.913	36.256	36.833	37.809	38.492	39.140	38.607	38.767	38.332
114	32.538	35.271	37.108	37.906	38.776	39.441	40.125	39.486	39.716	39.175

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**CANDELA TABULATION - (Cont.)**

115	33.904	36.531	37.960	38.687	39.495	40.045	40.790	40.178	40.444	39.876
116	35.164	37.800	38.767	39.326	40.045	40.497	41.198	40.648	40.941	40.444
117	36.256	38.803	39.459	39.841	40.515	41.047	41.864	41.225	41.358	40.950
118	37.294	39.326	40.080	40.373	41.074	41.615	42.325	41.713	41.784	41.438
119	38.297	39.903	40.737	40.905	41.322	41.952	42.733	42.192	42.121	41.802
120	39.299	40.533	41.420	41.305	41.615	42.148	42.991	42.494	42.334	42.219
121	40.240	41.234	42.086	41.686	41.997	42.503	43.381	42.778	42.574	42.582
122	40.905	41.952	42.467	41.988	42.414	42.955	43.745	43.168	42.973	42.937
123	41.500	42.627	42.831	42.343	42.778	43.319	44.180	43.594	43.390	43.292
124	42.086	43.337	43.204	42.653	43.071	43.638	44.659	44.047	43.718	43.532
125	42.680	44.020	43.470	42.884	43.399	43.878	44.943	44.357	44.002	43.763
126	43.248	44.632	43.630	43.221	43.807	44.162	45.262	44.659	44.242	43.993
127	43.816	44.748	43.763	43.479	44.153	44.561	45.449	44.872	44.446	44.171
128	44.357	44.765	43.825	43.612	44.410	44.845	45.591	45.058	44.677	44.348
129	44.916	44.765	43.816	43.727	44.570	45.058	45.795	45.271	44.872	44.535
130	45.546	44.765	43.763	43.834	44.641	45.165	45.919	45.440	45.067	44.641
131	46.176	44.783	43.692	43.949	44.712	45.182	45.981	45.564	45.138	44.721
132	46.229	44.783	43.630	44.091	44.783	45.200	46.043	45.617	45.244	44.819
133	46.238	44.792	43.638	44.260	44.943	45.253	46.061	45.688	45.342	44.934
134	46.229	44.810	43.860	44.464	45.191	45.466	46.150	45.777	45.449	45.023
135	46.176	44.792	44.091	44.703	45.404	45.661	46.167	45.830	45.493	45.156
136	46.079	44.748	44.304	44.916	45.573	45.857	46.247	45.910	45.626	45.369
137	45.945	44.650	44.499	45.120	45.715	46.034	46.469	46.123	45.874	45.591
138	45.759	44.508	44.668	45.280	45.866	46.185	46.655	46.327	46.070	45.741
139	45.528	44.331	44.810	45.413	45.954	46.265	46.726	46.433	46.158	45.839
140	45.262	44.366	44.943	45.520	45.999	46.291	46.780	46.487	46.220	45.937
141	44.934	44.437	45.049	45.670	46.052	46.318	46.842	46.558	46.300	45.999
142	44.552	44.464	45.111	45.741	46.150	46.380	46.859	46.593	46.327	46.025
143	44.109	44.446	45.120	45.768	46.176	46.451	46.859	46.584	46.309	46.016
144	43.621	44.384	45.076	45.750	46.150	46.460	46.717	46.487	46.238	45.928
145	43.532	44.260	44.987	45.661	46.052	46.380	46.558	46.345	46.096	45.830
146	43.434	44.118	44.827	45.511	45.874	46.185	46.345	46.167	45.937	45.653
147	43.337	43.993	44.650	45.271	45.653	45.954	46.096	45.937	45.706	45.440
148	43.257	43.869	44.481	45.023	45.386	45.679	45.795	45.661	45.466	45.209
149	43.168	43.745	44.331	44.801	45.120	45.395	45.502	45.386	45.191	44.952
150	43.106	43.621	44.180	44.597	44.890	45.129	45.200	45.102	44.934	44.694
151	43.115	43.532	44.011	44.393	44.659	44.890	44.952	44.845	44.677	44.481
152	43.141	43.514	43.896	44.180	44.437	44.641	44.712	44.614	44.481	44.313
153	43.195	43.523	43.869	44.064	44.260	44.446	44.499	44.428	44.313	44.180
154	43.221	43.559	43.842	44.020	44.197	44.357	44.366	44.295	44.215	44.109
155	43.257	43.559	43.825	43.976	44.144	44.304	44.277	44.215	44.144	44.064
156	43.292	43.585	43.780	43.940	44.091	44.233	44.215	44.153	44.091	44.029
157	43.292	43.594	43.754	43.896	44.038	44.171	44.144	44.100	44.047	44.002
158	43.257	43.541	43.692	43.834	43.976	44.109	44.055	44.029	43.976	43.922
159	43.186	43.443	43.603	43.754	43.878	43.993	43.922	43.905	43.860	43.798
160	43.124	43.310	43.479	43.621	43.754	43.860	43.771	43.754	43.709	43.656
161	43.053	43.195	43.328	43.470	43.585	43.683	43.576	43.567	43.541	43.488
162	42.991	43.106	43.230	43.328	43.425	43.505	43.390	43.390	43.381	43.346
163	42.946	43.035	43.133	43.230	43.319	43.381	43.275	43.275	43.275	43.257
164	42.911	42.991	43.062	43.150	43.221	43.283	43.177	43.186	43.195	43.186
165	42.849	42.946	43.017	43.088	43.150	43.204	43.097	43.106	43.115	43.115
166	42.751	42.840	42.937	43.008	43.071	43.124	43.017	43.035	43.035	43.035
167	42.653	42.742	42.822	42.884	42.946	42.991	42.893	42.902	42.902	42.893
168	42.485	42.609	42.707	42.778	42.831	42.866	42.716	42.733	42.733	42.724
169	42.281	42.396	42.503	42.591	42.653	42.698	42.538	42.556	42.556	42.538
170	42.086	42.183	42.281	42.352	42.414	42.458	42.290	42.316	42.316	42.307

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**CANDELA TABULATION - (Cont.)**

171	41.890	41.979	42.050	42.121	42.165	42.201	42.032	42.050	42.059	42.050
172	41.784	41.828	41.864	41.908	41.944	41.970	41.802	41.819	41.837	41.828
173	41.704	41.740	41.766	41.793	41.811	41.828	41.651	41.669	41.686	41.686
174	41.677	41.686	41.704	41.713	41.722	41.731	41.562	41.580	41.589	41.598
175	41.686	41.686	41.695	41.695	41.704	41.713	41.544	41.553	41.571	41.580
176	41.704	41.704	41.704	41.704	41.704	41.713	41.580	41.553	41.571	41.580
177	41.802	41.793	41.784	41.775	41.775	41.775	41.624	41.598	41.615	41.624
178	41.917	41.899	41.890	41.890	41.882	41.882	41.695	41.704	41.713	41.722
179	42.077	42.068	42.059	42.059	42.059	42.050	41.864	41.864	41.864	41.873
180	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272

**Vert. Angles**

**Horizontal Angles**

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639
1	2490.033	2489.793	2489.545	2489.279	2489.004	2488.711	2488.418	2488.107	2487.806	2487.894
2	2508.409	2506.200	2503.564	2500.521	2497.078	2494.505	2492.225	2489.784	2487.220	2486.475
3	2537.948	2535.375	2532.376	2528.312	2521.976	2514.913	2507.726	2500.956	2493.742	2489.625
4	2549.448	2548.392	2547.088	2544.159	2541.160	2536.324	2530.486	2520.521	2508.516	2498.134
5	2530.796	2535.890	2539.368	2543.148	2544.399	2544.275	2540.992	2535.623	2527.087	2510.557
6	2490.361	2496.564	2504.966	2515.082	2526.936	2535.162	2539.563	2539.359	2534.816	2524.266
7	2447.504	2455.995	2466.963	2478.267	2491.222	2506.990	2524.754	2533.742	2535.286	2529.448
8	2410.165	2415.817	2424.211	2438.976	2456.705	2473.875	2493.289	2515.659	2527.629	2527.895
9	2395.303	2397.805	2400.245	2404.655	2417.423	2439.748	2462.987	2486.501	2513.307	2521.923
10	2354.131	2367.086	2379.801	2388.479	2392.685	2403.448	2430.343	2458.648	2487.460	2511.959
11	2313.234	2318.265	2337.733	2359.490	2376.243	2383.563	2396.208	2429.562	2461.630	2496.768
12	2334.557	2315.399	2303.341	2314.503	2342.933	2366.855	2376.358	2397.361	2435.578	2469.190
13	2372.046	2355.196	2327.378	2298.718	2300.137	2335.151	2361.008	2370.493	2402.108	2442.712
14	2372.614	2372.303	2360.795	2331.016	2294.086	2295.390	2331.824	2353.412	2370.218	2416.767
15	2342.267	2355.240	2361.611	2355.267	2324.672	2282.152	2292.152	2331.948	2348.514	2386.669
16	2299.561	2316.012	2337.068	2350.493	2345.426	2309.321	2270.510	2297.964	2331.300	2356.748
17	2246.437	2271.388	2297.271	2325.728	2338.505	2330.697	2285.665	2263.518	2310.448	2332.329
18	2206.144	2221.335	2252.338	2284.050	2312.551	2327.263	2309.960	2253.509	2279.986	2313.288
19	2164.715	2184.821	2205.638	2236.863	2273.669	2306.677	2314.894	2269.623	2246.091	2294.175
20	2107.935	2139.905	2169.276	2190.110	2228.682	2271.699	2301.823	2286.242	2226.729	2272.994
21	2086.116	2084.297	2119.941	2153.366	2183.490	2232.541	2277.466	2287.901	2229.374	2247.067
22	2107.483	2082.096	2070.952	2104.758	2144.910	2186.064	2242.275	2276.411	2243.864	2218.034
23	2110.970	2101.227	2073.649	2058.840	2104.829	2146.365	2205.948	2257.200	2252.338	2190.784
24	2089.470	2097.199	2087.544	2058.511	2052.806	2110.473	2162.709	2226.898	2245.718	2185.513
25	2047.899	2069.097	2081.537	2071.111	2034.350	2067.251	2123.055	2188.229	2229.320	2191.352
26	2002.317	2024.589	2052.540	2066.515	2044.793	2019.665	2085.220	2145.664	2204.822	2196.827
27	1974.163	1981.572	2008.174	2043.711	2046.621	2010.259	2043.933	2099.319	2173.020	2195.052
28	1926.381	1949.460	1965.565	2005.130	2035.157	2017.162	1999.691	2061.022	2140.287	2184.156
29	1875.138	1897.223	1933.825	1959.247	2009.948	2014.917	1980.489	2025.725	2102.948	2166.374
30	1862.582	1860.328	1885.732	1924.340	1968.502	1997.996	1980.312	1983.045	2060.313	2143.987
31	1840.390	1847.941	1845.466	1886.025	1922.033	1970.569	1976.727	1951.084	2024.003	2118.867
32	1793.602	1819.858	1832.662	1838.625	1880.267	1933.000	1965.006	1942.512	1993.737	2092.167
33	1739.058	1771.419	1808.110	1815.758	1839.787	1885.165	1947.064	1941.261	1958.466	2053.977
34	1699.067	1719.085	1764.986	1796.610	1803.797	1847.072	1919.362	1935.733	1922.175	2007.588
35	1660.424	1678.916	1714.737	1759.609	1783.983	1808.420	1877.427	1923.106	1897.614	1963.506
36	1630.060	1643.104	1667.398	1710.877	1756.769	1778.287	1834.241	1900.923	1883.230	1920.231
37	1620.450	1614.576	1634.106	1656.405	1718.845	1761.667	1798.456	1867.809	1870.391	1879.370
38	1584.718	1604.221	1600.326	1619.040	1672.376	1738.011	1759.440	1820.355	1852.068	1842.263
39	1517.672	1570.272	1580.885	1586.093	1627.682	1704.098	1730.656	1772.670	1832.094	1814.516
40	1435.560	1511.692	1553.138	1564.265	1590.796	1652.199	1699.821	1729.076	1806.796	1792.333
41	1397.405	1428.425	1497.255	1548.693	1562.500	1606.289	1665.171	1690.744	1768.988	1772.360

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**CANDELA TABULATION - (Cont.)**

42	1388.824	1381.699	1418.860	1509.269	1544.301	1558.507	1620.264	1662.208	1720.691	1754.090
43	1376.358	1369.978	1367.396	1449.686	1518.000	1521.479	1576.075	1633.352	1672.749	1732.874
44	1332.329	1355.497	1351.876	1380.004	1470.484	1497.157	1530.370	1602.269	1630.601	1704.107
45	1278.247	1311.308	1342.781	1344.627	1405.213	1468.151	1481.762	1560.468	1596.466	1669.155
46	1211.130	1259.657	1308.442	1331.787	1341.566	1429.863	1452.534	1515.001	1562.925	1626.271
47	1166.533	1190.038	1267.111	1304.822	1307.963	1377.129	1425.045	1469.233	1529.110	1577.007
48	1158.964	1154.581	1204.918	1268.255	1283.437	1315.665	1394.512	1423.874	1495.045	1531.718
49	1131.715	1142.850	1154.084	1209.994	1255.549	1271.219	1353.065	1381.886	1453.750	1490.272
50	1059.939	1119.452	1133.054	1145.956	1219.896	1242.789	1301.707	1345.825	1406.287	1458.639
51	1004.482	1053.080	1109.718	1113.028	1164.412	1212.088	1246.143	1310.368	1362.897	1425.613
52	971.349	1003.355	1047.969	1087.357	1106.665	1172.673	1202.088	1279.152	1319.906	1393.509
53	935.901	970.169	994.411	1047.943	1071.705	1124.527	1167.110	1237.075	1279.542	1354.272
54	882.706	939.823	950.213	990.640	1039.069	1075.725	1132.850	1188.707	1241.157	1292.870
55	828.216	890.204	912.866	942.112	994.269	1035.529	1096.559	1142.114	1192.984	1229.870
56	803.939	830.532	868.935	903.611	943.390	998.989	1056.550	1097.162	1144.944	1166.435
57	758.295	791.223	818.251	864.188	898.491	957.800	1011.749	1055.636	1098.147	1093.995
58	716.653	740.264	783.983	818.562	860.851	913.638	969.894	1016.771	1044.873	1005.626
59	689.634	694.275	749.022	776.148	822.688	868.198	934.463	977.773	962.795	907.453
60	648.178	655.641	692.926	740.602	780.753	836.255	897.817	912.245	870.488	795.908
61	581.354	620.512	646.164	697.292	737.665	812.395	859.298	839.263	755.659	684.621
62	534.708	573.750	607.202	651.976	711.471	788.002	792.439	733.734	643.626	572.916
63	492.871	528.213	569.659	615.552	693.574	757.328	716.032	623.555	532.135	514.530
64	455.364	470.315	521.389	578.453	676.156	693.884	614.123	513.554	472.276	489.277
65	403.881	440.927	481.034	558.896	647.158	615.969	511.540	433.882	450.705	464.574
66	364.351	403.314	441.326	544.220	593.209	518.576	408.877	412.196	428.079	440.608
67	330.003	360.243	409.968	534.823	525.986	418.833	374.786	389.187	405.399	408.460
68	294.572	324.147	398.540	503.385	436.198	334.759	353.304	366.250	375.745	374.768
69	266.391	293.694	398.460	452.631	347.128	315.886	333.269	339.009	345.336	330.908
70	244.865	266.178	404.378	366.383	283.490	297.518	310.003	310.722	307.093	287.545
71	229.266	263.428	372.701	285.309	263.836	279.169	284.457	278.530	268.769	245.069
72	215.335	279.027	316.995	226.098	243.206	258.450	258.086	246.826	231.129	211.484
73	202.318	296.791	250.863	210.366	223.977	236.799	231.972	215.654	206.967	201.670
74	189.780	280.393	192.628	195.858	206.453	214.421	206.071	196.701	195.965	191.723
75	200.579	227.695	179.736	182.522	191.191	193.329	187.810	185.769	184.926	181.705
76	209.975	176.284	167.073	170.383	176.346	175.876	175.432	174.713	173.853	171.963
77	194.651	152.779	155.006	158.591	162.779	162.770	163.267	163.595	163.506	162.433
78	157.863	140.250	143.604	147.419	150.037	150.117	151.395	152.779	153.382	153.453
79	126.585	128.333	132.424	135.281	136.727	137.792	139.966	142.193	143.852	144.669
80	114.509	117.268	120.764	122.725	123.959	125.946	129.132	131.856	134.305	135.858
81	102.787	106.336	108.688	110.383	112.077	115.174	118.448	121.510	124.731	126.958
82	91.980	94.996	96.638	98.741	101.376	104.446	107.783	111.181	114.739	117.091
83	81.616	83.337	85.396	87.996	90.737	93.807	97.392	100.950	104.562	107.206
84	70.081	72.246	74.872	77.303	80.436	83.683	87.144	90.737	94.393	97.330
85	59.069	61.793	64.384	67.348	70.515	73.612	76.931	80.542	84.499	87.942
86	49.175	51.766	54.890	57.649	60.622	63.994	67.703	71.695	75.662	79.167
87	39.921	42.716	45.493	48.785	52.237	55.653	59.255	63.399	67.445	71.101
88	31.349	34.641	37.826	41.411	45.094	48.714	52.334	56.158	59.956	63.461
89	25.040	28.572	31.890	35.289	38.696	42.059	45.431	48.945	52.476	55.830
90	19.814	23.053	25.981	29.184	32.316	35.422	38.536	41.740	45.005	48.199
91	17.897	20.914	23.816	26.886	29.867	32.813	35.750	38.758	41.793	44.677
92	16.504	19.060	21.659	24.605	27.427	30.204	32.973	35.786	38.581	41.163
93	16.167	18.243	20.382	22.937	25.368	27.755	30.195	32.813	35.369	37.649
94	16.034	17.924	19.982	22.006	23.949	26.096	28.314	30.542	32.671	34.481
95	16.052	17.835	19.592	21.473	23.310	25.120	26.877	28.607	30.426	31.917
96	16.318	17.826	19.450	21.012	22.671	24.392	26.016	27.560	28.936	29.876
97	16.699	17.933	19.317	20.834	22.263	23.656	25.156	26.504	27.631	28.243



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**CANDELA TABULATION - (Cont.)**

98	17.516	18.128	19.290	20.657	22.068	23.345	24.455	25.439	26.318	26.611
99	18.474	18.492	19.388	20.577	21.872	23.088	24.126	24.916	25.306	24.960
100	19.769	19.370	19.503	20.577	21.739	22.831	23.789	24.534	24.943	24.623
101	21.216	20.391	20.222	20.604	21.633	22.627	23.478	24.162	24.579	24.410
102	22.742	21.739	21.225	20.834	21.553	22.449	23.230	23.842	24.224	24.197
103	24.295	23.292	22.352	21.908	21.455	22.307	23.044	23.585	23.967	24.002
104	25.857	24.827	23.683	22.990	22.307	22.165	22.893	23.425	23.727	23.851
105	27.418	26.265	25.191	24.179	23.345	22.671	22.742	23.292	23.603	23.727
106	28.980	27.711	26.699	25.466	24.392	23.683	23.053	23.168	23.478	23.620
107	30.586	29.202	28.030	26.815	25.537	24.685	24.002	23.425	23.345	23.514
108	32.165	30.701	29.370	28.146	26.735	25.715	24.934	24.286	23.683	23.408
109	33.692	32.245	30.692	29.335	27.951	26.753	25.874	25.138	24.463	23.904
110	35.218	33.745	32.006	30.453	29.131	27.844	26.833	25.981	25.235	24.597
111	36.664	35.138	33.266	31.553	30.178	28.927	27.800	26.850	25.998	25.297
112	38.057	36.424	34.464	32.600	31.154	30.000	28.776	27.729	26.788	25.990
113	38.829	37.596	35.582	33.603	32.121	30.896	29.734	28.607	27.578	26.699
114	39.486	38.643	36.629	34.614	33.044	31.722	30.657	29.477	28.385	27.409
115	40.062	39.645	37.693	35.582	33.931	32.547	31.393	30.337	29.193	28.128
116	40.604	40.639	38.732	36.522	34.801	33.363	32.094	31.021	30.000	28.847
117	41.083	41.456	39.637	37.489	35.661	34.171	32.769	31.633	30.701	29.548
118	41.509	41.811	40.462	38.483	36.513	34.934	33.461	32.236	31.243	30.169
119	41.882	42.139	41.260	39.459	37.401	35.688	34.135	32.849	31.775	30.648
120	42.343	42.503	42.086	40.329	38.314	36.416	34.827	33.505	32.298	31.136
121	42.804	42.964	42.804	41.145	39.184	37.170	35.537	34.162	32.849	31.615
122	43.195	43.399	43.168	41.890	40.009	37.977	36.247	34.854	33.408	32.121
123	43.559	43.851	43.550	42.582	40.746	38.803	36.992	35.519	34.020	32.636
124	43.878	44.313	43.940	43.257	41.456	39.637	37.835	36.167	34.659	33.195
125	44.118	44.756	44.313	43.701	42.121	40.435	38.678	36.859	35.280	33.754
126	44.339	45.120	44.650	44.029	42.813	41.225	39.503	37.640	35.901	34.313
127	44.535	45.244	44.943	44.384	43.541	41.961	40.275	38.421	36.673	34.854
128	44.623	45.333	45.280	44.748	44.118	42.689	41.021	39.202	37.436	35.555
129	44.632	45.369	45.688	45.147	44.543	43.417	41.722	39.992	38.190	36.309
130	44.632	45.378	46.123	45.608	44.978	44.118	42.432	40.746	38.918	37.072
131	44.641	45.378	46.549	46.105	45.431	44.579	43.150	41.473	39.628	37.862
132	44.641	45.422	46.620	46.620	45.892	45.005	43.887	42.183	40.338	38.678
133	44.623	45.493	46.629	47.117	46.345	45.449	44.437	42.884	41.039	39.512
134	44.703	45.564	46.664	47.578	46.806	45.874	44.845	43.567	41.784	40.382
135	44.925	45.599	46.682	47.915	47.250	46.291	45.244	44.020	42.547	41.260
136	45.147	45.564	46.655	47.800	47.720	46.700	45.626	44.401	43.310	42.148
137	45.315	45.502	46.558	47.658	48.181	47.108	45.990	44.810	43.825	43.044
138	45.431	45.431	46.416	47.480	48.599	47.516	46.345	45.227	44.339	43.665
139	45.528	45.307	46.265	47.268	48.315	47.898	46.700	45.670	44.872	44.215
140	45.608	45.324	46.070	47.019	47.951	48.261	47.072	46.132	45.413	44.756
141	45.670	45.360	45.812	46.700	47.543	48.386	47.472	46.629	45.954	45.298
142	45.688	45.369	45.511	46.327	47.126	47.906	47.906	47.143	46.496	45.830
143	45.653	45.298	45.147	45.910	46.673	47.427	48.377	47.658	47.028	46.362
144	45.582	45.191	44.756	45.449	46.203	46.992	47.977	48.190	47.560	46.904
145	45.449	45.049	44.606	44.961	45.732	46.584	47.569	48.563	48.084	47.463
146	45.280	44.881	44.410	44.464	45.289	46.194	47.161	48.119	48.616	48.031
147	45.085	44.685	44.215	44.011	44.881	45.812	46.762	47.658	48.412	48.599
148	44.872	44.455	44.038	43.718	44.481	45.431	46.336	47.170	47.889	48.625
149	44.614	44.260	43.931	43.701	44.109	45.040	45.901	46.664	47.356	48.084
150	44.410	44.118	43.851	43.674	43.736	44.650	45.431	46.150	46.833	47.525
151	44.260	44.002	43.825	43.674	43.576	44.224	44.961	45.635	46.318	46.957
152	44.126	43.949	43.798	43.683	43.594	43.771	44.464	45.129	45.795	46.371
153	44.064	43.922	43.798	43.701	43.594	43.390	43.940	44.623	45.253	45.768

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**CANDELA TABULATION - (Cont.)**

154	44.020	43.896	43.807	43.701	43.541	43.346	43.434	44.118	44.703	45.165
155	43.984	43.913	43.807	43.656	43.470	43.283	43.141	43.594	44.144	44.543
156	43.976	43.905	43.763	43.594	43.408	43.221	43.141	43.062	43.567	43.913
157	43.931	43.842	43.683	43.505	43.328	43.195	43.124	43.008	42.964	43.275
158	43.842	43.727	43.594	43.417	43.257	43.186	43.106	42.973	42.787	42.600
159	43.709	43.621	43.470	43.319	43.239	43.168	43.062	42.929	42.724	42.432
160	43.576	43.470	43.372	43.275	43.212	43.133	43.017	42.858	42.653	42.334
161	43.425	43.354	43.310	43.257	43.186	43.088	42.964	42.787	42.565	42.228
162	43.310	43.283	43.266	43.221	43.141	43.035	42.884	42.707	42.449	42.130
163	43.248	43.230	43.204	43.168	43.079	42.955	42.795	42.600	42.325	42.041
164	43.177	43.168	43.133	43.088	43.000	42.858	42.698	42.476	42.210	41.970
165	43.106	43.088	43.044	42.982	42.875	42.751	42.582	42.334	42.094	41.917
166	43.008	42.973	42.911	42.831	42.742	42.627	42.423	42.201	41.988	41.882
167	42.866	42.822	42.760	42.680	42.582	42.441	42.272	42.068	41.917	41.864
168	42.698	42.653	42.591	42.503	42.387	42.236	42.094	41.961	41.864	41.864
169	42.503	42.458	42.387	42.281	42.174	42.059	41.944	41.864	41.846	41.864
170	42.272	42.219	42.148	42.068	41.979	41.899	41.837	41.802	41.819	41.846
171	42.023	41.988	41.935	41.882	41.828	41.793	41.766	41.775	41.802	41.819
172	41.819	41.802	41.775	41.757	41.731	41.722	41.740	41.757	41.775	41.793
173	41.686	41.686	41.669	41.677	41.686	41.695	41.722	41.731	41.748	41.793
174	41.615	41.624	41.633	41.651	41.669	41.686	41.695	41.713	41.748	41.802
175	41.598	41.615	41.624	41.642	41.651	41.660	41.695	41.731	41.766	41.811
176	41.589	41.598	41.615	41.642	41.669	41.695	41.722	41.757	41.793	41.837
177	41.642	41.660	41.677	41.695	41.722	41.740	41.766	41.802	41.837	41.882
178	41.731	41.748	41.766	41.784	41.802	41.819	41.846	41.873	41.899	41.935
179	41.882	41.890	41.899	41.908	41.926	41.935	41.952	41.961	41.979	41.997
180	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272

**Vert. Horizontal Angles**

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639
1	2488.019	2488.161	2488.329	2488.524	2488.737	2488.631	2488.533	2488.462	2488.409	2488.374
2	2485.703	2484.931	2485.117	2485.454	2485.836	2485.836	2485.871	2485.987	2486.697	2487.442
3	2485.357	2483.609	2482.145	2482.437	2482.934	2483.263	2483.653	2484.381	2485.401	2488.258
4	2489.350	2483.334	2480.583	2479.465	2480.033	2480.911	2481.586	2482.499	2486.271	2487.894
5	2495.614	2484.434	2477.868	2475.108	2475.738	2477.220	2477.939	2481.328	2483.990	2483.431
6	2504.088	2486.262	2475.685	2470.955	2471.443	2473.573	2474.460	2479.305	2479.713	2475.587
7	2513.751	2489.811	2473.422	2465.969	2465.747	2468.240	2470.938	2474.283	2471.195	2474.079
8	2518.152	2493.280	2471.062	2460.946	2460.059	2462.987	2467.016	2468.054	2466.838	2481.772
9	2519.598	2498.578	2469.518	2455.906	2454.363	2457.850	2462.384	2459.926	2467.326	2485.419
10	2516.173	2502.580	2469.385	2450.858	2448.675	2452.827	2456.652	2453.901	2473.387	2485.703
11	2509.030	2502.304	2468.773	2444.318	2440.094	2444.921	2448.710	2451.115	2473.094	2486.022
12	2497.965	2499.083	2468.915	2438.435	2431.523	2437.007	2440.219	2448.364	2468.702	2482.917
13	2481.736	2491.843	2469.580	2433.289	2422.943	2429.056	2431.363	2447.956	2464.931	2480.210
14	2459.012	2483.360	2469.784	2428.355	2414.362	2420.990	2422.934	2445.578	2461.594	2480.743
15	2434.815	2472.783	2465.924	2421.700	2404.619	2411.461	2414.859	2439.110	2458.489	2482.074
16	2412.312	2459.127	2459.420	2415.072	2394.886	2401.771	2408.133	2432.171	2451.878	2478.373
17	2388.834	2440.733	2451.133	2406.563	2383.980	2390.706	2401.044	2425.791	2447.929	2467.033
18	2363.253	2420.778	2441.283	2398.275	2373.075	2379.597	2395.001	2419.500	2444.105	2449.349
19	2333.501	2398.985	2430.245	2390.121	2362.170	2368.559	2389.233	2412.818	2439.039	2427.104
20	2307.893	2378.089	2419.571	2381.780	2351.265	2357.520	2382.818	2404.974	2428.426	2399.934
21	2284.955	2357.006	2405.214	2371.318	2336.748	2343.057	2371.957	2394.557	2414.460	2371.797
22	2262.267	2331.282	2387.414	2360.484	2322.241	2328.292	2357.964	2382.365	2395.595	2343.749
23	2239.116	2302.054	2368.523	2349.437	2307.724	2313.483	2343.661	2372.179	2373.466	2310.501
24	2215.913	2271.246	2348.195	2338.088	2293.208	2298.975	2330.005	2360.937	2348.789	2273.598

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**CANDELA TABULATION - (Cont.)**

25	2188.193	2241.503	2327.848	2326.376	2279.321	2286.473	2318.727	2347.778	2321.886	2240.998
26	2160.899	2214.156	2308.248	2314.423	2265.434	2274.476	2307.573	2334.752	2296.819	2210.642
27	2136.604	2191.175	2289.960	2302.294	2252.178	2264.237	2297.218	2320.262	2273.172	2185.487
28	2125.619	2169.755	2271.575	2289.969	2238.921	2254.574	2287.511	2306.411	2244.050	2172.514
29	2122.736	2151.582	2253.269	2277.458	2225.665	2245.381	2277.387	2288.451	2212.825	2159.604
30	2126.622	2134.013	2235.061	2264.751	2212.417	2236.632	2266.854	2269.268	2180.882	2148.415
31	2128.060	2112.727	2206.241	2245.461	2190.900	2217.563	2248.842	2246.410	2150.828	2143.144
32	2122.372	2081.919	2171.068	2225.035	2169.382	2197.368	2226.934	2216.348	2120.171	2138.539
33	2102.212	2053.427	2134.839	2204.165	2147.864	2177.128	2205.017	2187.439	2097.731	2126.365
34	2077.642	2029.416	2098.405	2182.860	2126.347	2156.844	2182.985	2159.338	2077.837	2109.665
35	2050.268	2009.851	2063.365	2159.267	2102.913	2135.460	2159.471	2130.136	2055.273	2093.498
36	2020.250	1996.230	2029.425	2135.096	2079.488	2113.916	2134.945	2093.294	2034.376	2073.738
37	1985.858	1983.746	1996.603	2108.645	2054.146	2091.165	2109.239	2055.867	2018.768	2042.628
38	1946.079	1967.579	1968.005	2080.552	2028.813	2067.189	2082.327	2016.781	2002.947	2002.433
39	1899.672	1948.954	1940.587	2052.699	2003.471	2043.116	2055.415	1979.771	1983.559	1957.410
40	1854.605	1927.410	1914.295	2025.068	1978.129	2018.955	2028.520	1945.777	1960.383	1912.201
41	1813.194	1902.822	1883.736	1993.719	1947.304	1989.513	1998.493	1915.573	1936.327	1866.549
42	1775.234	1871.890	1848.953	1961.634	1916.478	1959.486	1966.035	1885.147	1908.714	1821.828
43	1738.677	1838.589	1815.315	1929.255	1885.653	1929.522	1933.905	1857.542	1874.943	1782.298
44	1704.187	1802.883	1782.803	1896.593	1854.827	1899.601	1902.095	1830.763	1837.161	1750.842
45	1670.832	1764.125	1752.200	1860.435	1821.987	1867.560	1868.527	1804.667	1797.205	1725.873
46	1642.225	1719.076	1723.459	1823.345	1789.139	1835.111	1832.964	1777.612	1754.019	1705.562
47	1614.230	1673.246	1694.142	1783.841	1754.276	1800.665	1795.315	1750.327	1710.504	1685.660
48	1585.472	1627.265	1663.459	1744.373	1719.404	1765.847	1755.598	1718.508	1670.442	1657.984
49	1556.377	1585.357	1632.101	1705.234	1684.541	1730.913	1714.870	1684.524	1632.740	1624.133
50	1526.252	1548.018	1600.637	1666.405	1649.679	1695.855	1673.370	1649.324	1596.857	1578.551
51	1493.679	1513.049	1546.883	1587.061	1570.015	1614.532	1606.165	1611.435	1563.999	1528.222
52	1448.541	1445.622	1475.933	1502.889	1490.343	1527.601	1520.334	1523.848	1523.457	1474.566
53	1376.322	1378.638	1404.423	1418.798	1410.679	1440.644	1435.870	1436.456	1449.313	1418.425
54	1305.656	1312.364	1331.912	1334.955	1331.015	1353.891	1352.382	1348.487	1371.841	1347.946
55	1237.439	1246.285	1244.253	1234.794	1231.866	1253.419	1258.992	1259.329	1290.208	1278.761
56	1164.634	1156.142	1146.178	1133.037	1132.717	1151.236	1158.645	1158.725	1199.914	1214.235
57	1076.887	1064.198	1034.021	1014.597	1014.083	1035.201	1048.289	1058.590	1098.511	1140.508
58	980.116	946.415	912.751	894.427	895.448	917.471	931.225	949.654	992.024	1049.753
59	866.060	827.426	791.694	774.435	776.822	799.608	814.879	841.446	877.488	945.457
60	750.318	707.274	671.337	654.603	658.187	681.604	699.217	733.929	766.227	827.674
61	632.269	600.520	610.645	620.902	633.121	646.413	639.829	638.471	658.675	712.243
62	557.414	575.888	586.208	596.315	608.063	620.068	614.212	612.224	593.857	600.059
63	531.629	551.771	562.126	571.860	582.996	593.910	588.267	585.764	571.194	546.358
64	506.677	528.133	538.381	547.530	557.929	567.938	562.020	559.109	547.352	525.515
65	482.560	501.203	502.960	506.065	513.075	523.528	523.776	528.816	521.815	502.640
66	450.785	462.161	461.460	463.012	468.221	477.396	479.366	486.092	485.444	477.671
67	414.334	418.948	408.256	402.524	403.580	412.968	422.675	438.957	443.554	442.489
68	369.161	364.192	349.498	340.491	338.930	346.995	360.003	379.773	392.879	405.851
69	320.535	309.426	290.846	278.450	274.288	281.085	297.234	320.509	339.844	359.081
70	272.052	254.439	232.291	216.400	209.638	215.246	234.359	261.112	287.572	312.665
71	223.676	215.991	209.035	203.596	200.730	202.380	209.807	220.029	235.974	266.915
72	208.724	205.610	199.487	194.501	191.821	193.498	200.233	209.558	219.913	230.313
73	198.529	195.326	189.922	185.397	182.921	184.634	190.694	199.106	208.600	218.609
74	188.414	185.122	180.401	176.284	174.012	175.769	181.173	188.662	197.251	206.639
75	178.413	175.468	171.457	167.703	165.618	167.393	172.335	178.875	186.009	194.385
76	169.239	166.346	162.699	159.167	157.224	159.043	163.702	169.780	176.355	183.214
77	160.232	157.774	154.518	151.173	149.354	151.182	155.760	161.395	167.002	172.859
78	151.927	149.629	146.470	143.213	141.474	143.347	147.996	153.622	159.079	163.915
79	143.613	141.483	138.422	135.245	133.595	135.503	140.232	145.831	151.119	155.441
80	135.290	133.329	130.365	127.277	125.724	127.668	132.459	138.040	143.142	146.905

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**CANDELA TABULATION - (Cont.)**

81	126.550	124.393	120.605	116.328	113.959	116.292	122.486	129.265	134.535	138.182
82	117.215	115.068	110.551	105.263	102.202	104.775	112.139	119.992	125.032	127.632
83	107.871	105.742	100.498	94.198	90.445	93.266	101.802	110.729	115.511	117.055
84	98.519	96.425	90.453	83.133	78.679	81.758	91.465	101.474	105.964	106.470
85	89.726	87.871	81.500	73.000	67.836	71.385	82.192	92.689	96.833	96.363
86	81.234	79.504	72.654	62.902	56.993	61.048	73.018	84.038	87.916	86.877
87	73.399	71.971	64.934	53.727	47.063	51.855	64.934	75.901	79.495	78.093
88	65.786	64.553	57.277	44.579	37.134	42.680	56.913	67.836	71.234	69.726
89	58.164	57.135	49.628	35.422	27.205	33.505	48.882	59.761	62.973	61.376
90	50.542	49.708	41.961	26.265	17.276	24.330	40.852	51.686	54.703	53.017
91	46.673	45.688	38.510	24.943	17.196	23.141	37.330	47.090	50.187	48.936
92	42.804	41.660	35.049	23.612	17.116	21.943	33.798	42.476	45.661	44.845
93	38.936	37.631	31.589	22.289	17.037	20.746	30.266	37.871	41.136	40.763
94	35.306	33.754	28.208	20.967	16.957	19.565	26.824	33.461	36.886	37.046
95	32.440	30.888	26.034	20.266	17.090	19.006	24.703	30.346	33.550	33.931
96	29.929	28.252	23.967	19.574	17.214	18.465	22.715	27.534	30.630	31.358
97	28.066	26.566	23.070	19.486	17.542	18.545	22.006	25.927	28.474	29.219
98	26.194	24.872	22.183	19.406	17.871	18.625	21.305	24.321	26.327	27.072
99	24.313	23.195	21.296	19.326	18.199	18.714	20.612	22.724	24.179	24.925
100	23.567	22.174	20.630	19.273	18.536	18.820	20.124	21.784	23.337	24.543
101	23.612	22.476	21.180	20.018	19.388	19.628	20.719	22.121	23.390	24.321
102	23.656	22.786	21.730	20.772	20.240	20.426	21.322	22.458	23.461	24.100
103	23.709	23.097	22.289	21.518	21.092	21.234	21.926	22.804	23.532	23.904
104	23.700	23.319	22.778	22.245	21.935	22.014	22.467	23.053	23.532	23.745
105	23.683	23.443	23.026	22.600	22.360	22.414	22.760	23.195	23.514	23.603
106	23.594	23.461	23.203	22.937	22.778	22.778	22.982	23.239	23.416	23.478
107	23.496	23.381	23.132	22.911	22.760	22.769	22.946	23.168	23.310	23.345
108	23.399	23.301	23.070	22.875	22.751	22.751	22.919	23.106	23.212	23.221
109	23.390	23.230	23.008	22.848	22.733	22.733	22.884	23.044	23.203	23.771
110	24.011	23.558	23.097	22.848	22.724	22.760	23.026	23.425	23.913	24.543
111	24.632	24.108	23.603	23.328	23.203	23.283	23.612	24.064	24.623	25.324
112	25.244	24.667	24.108	23.807	23.691	23.816	24.188	24.703	25.324	26.096
113	25.865	25.218	24.614	24.286	24.171	24.339	24.774	25.342	26.043	26.895
114	26.513	25.777	25.129	24.765	24.650	24.863	25.368	25.998	26.779	27.702
115	27.170	26.336	25.679	25.297	25.182	25.439	25.981	26.673	27.534	28.536
116	27.835	26.912	26.238	25.830	25.706	26.007	26.620	27.374	28.314	29.370
117	28.501	27.489	26.833	26.416	26.274	26.620	27.267	28.075	29.086	30.204
118	29.157	28.075	27.427	26.992	26.841	27.232	27.924	28.767	29.849	30.950
119	29.681	28.652	28.013	27.569	27.409	27.844	28.572	29.468	30.471	31.553
120	30.071	29.077	28.518	28.128	27.977	28.430	29.148	29.991	30.959	32.148
121	30.462	29.477	28.891	28.492	28.359	28.829	29.592	30.479	31.455	32.733
122	30.825	29.876	29.264	28.865	28.731	29.219	30.045	30.976	31.952	33.337
123	31.260	30.275	29.636	29.228	29.113	29.619	30.488	31.464	32.511	33.949
124	31.731	30.790	30.071	29.610	29.486	30.027	30.985	32.041	33.115	34.588
125	32.281	31.314	30.577	30.107	30.000	30.559	31.562	32.636	33.789	35.235
126	32.866	31.944	31.145	30.630	30.515	31.101	32.183	33.319	34.499	35.874
127	33.470	32.582	31.802	31.278	31.172	31.775	32.866	34.002	35.200	36.531
128	34.091	33.212	32.458	31.917	31.819	32.440	33.558	34.685	35.901	37.338
129	34.889	33.842	33.115	32.565	32.476	33.115	34.242	35.360	36.753	38.217
130	35.768	34.712	33.896	33.239	33.124	33.807	35.023	36.247	37.658	39.095
131	36.646	35.582	34.818	34.171	34.082	34.739	35.936	37.143	38.563	39.983
132	37.525	36.460	35.732	35.102	35.040	35.661	36.850	38.031	39.477	40.897
133	38.412	37.338	36.655	36.034	35.999	36.584	37.755	38.936	40.400	41.819
134	39.299	38.261	37.578	36.975	36.948	37.516	38.687	39.885	41.322	42.751
135	40.196	39.184	38.519	37.933	37.924	38.474	39.628	40.834	42.263	43.683
136	41.101	40.133	39.468	38.891	38.891	39.433	40.586	41.811	43.212	44.614

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**CANDELA TABULATION - (Cont.)**

137	41.997	41.083	40.435	39.867	39.867	40.417	41.571	42.787	44.162	45.546
138	42.884	42.041	41.393	40.852	40.852	41.402	42.547	43.763	45.102	46.220
139	43.514	43.000	42.361	41.828	41.828	42.387	43.532	44.730	45.777	46.824
140	44.073	43.603	43.141	42.760	42.813	43.328	44.331	45.333	46.371	47.418
141	44.650	44.189	43.701	43.346	43.399	43.905	44.907	45.919	46.966	48.013
142	45.236	44.774	44.251	43.931	43.984	44.481	45.475	46.504	47.551	48.607
143	45.821	45.360	44.810	44.508	44.561	45.067	46.043	47.081	48.128	49.193
144	46.407	45.945	45.369	45.094	45.147	45.644	46.593	47.649	48.705	49.788
145	46.992	46.531	45.928	45.679	45.732	46.220	47.143	48.208	49.282	50.373
146	47.569	47.099	46.478	46.265	46.318	46.806	47.685	48.776	49.850	50.950
147	48.146	47.667	47.037	46.842	46.904	47.383	48.226	49.335	50.409	51.527
148	48.723	48.226	47.605	47.427	47.489	47.960	48.767	49.894	50.959	51.536
149	48.625	48.785	48.164	48.004	48.066	48.536	49.308	50.444	50.852	51.003
150	48.013	48.261	48.261	48.474	48.652	48.998	49.388	49.965	50.240	50.444
151	47.392	47.560	47.605	47.809	48.004	48.350	48.749	49.317	49.628	49.859
152	46.753	46.859	46.948	47.143	47.356	47.702	48.102	48.670	48.998	49.246
153	46.096	46.167	46.291	46.487	46.709	47.055	47.445	48.004	48.368	48.625
154	45.431	45.475	45.635	45.821	46.061	46.407	46.797	47.330	47.711	47.986
155	44.756	44.792	44.978	45.156	45.413	45.759	46.150	46.655	47.055	47.347
156	44.064	44.118	44.322	44.499	44.756	45.102	45.493	45.972	46.389	46.691
157	43.363	43.443	43.665	43.834	44.109	44.455	44.836	45.280	45.715	46.025
158	42.653	42.778	43.008	43.177	43.461	43.798	44.180	44.597	45.031	45.342
159	42.059	42.121	42.352	42.520	42.813	43.141	43.523	43.913	44.446	45.156
160	41.997	41.882	41.882	41.917	42.165	42.538	43.035	43.621	44.339	45.031
161	41.952	41.882	41.882	41.926	42.174	42.529	43.008	43.550	44.233	44.898
162	41.917	41.882	41.882	41.944	42.183	42.520	42.973	43.479	44.109	44.774
163	41.890	41.882	41.890	41.961	42.192	42.512	42.937	43.408	43.993	44.632
164	41.873	41.873	41.899	41.979	42.201	42.503	42.902	43.337	43.869	44.481
165	41.873	41.882	41.908	41.997	42.210	42.503	42.858	43.266	43.754	44.322
166	41.873	41.882	41.917	42.023	42.219	42.494	42.822	43.204	43.638	44.144
167	41.873	41.882	41.935	42.041	42.228	42.485	42.787	43.141	43.523	43.984
168	41.873	41.890	41.952	42.059	42.236	42.476	42.751	43.071	43.408	43.825
169	41.873	41.908	41.970	42.086	42.245	42.476	42.716	43.000	43.310	43.665
170	41.864	41.917	41.988	42.103	42.254	42.467	42.671	42.920	43.204	43.488
171	41.846	41.908	41.979	42.094	42.236	42.432	42.618	42.831	43.079	43.328
172	41.846	41.899	41.979	42.086	42.228	42.387	42.556	42.742	42.955	43.177
173	41.846	41.899	41.979	42.086	42.210	42.352	42.503	42.662	42.831	43.017
174	41.846	41.908	41.988	42.077	42.192	42.316	42.441	42.574	42.716	42.866
175	41.864	41.917	41.997	42.077	42.174	42.281	42.387	42.494	42.609	42.724
176	41.882	41.944	42.006	42.077	42.157	42.236	42.325	42.414	42.503	42.591
177	41.917	41.970	42.015	42.077	42.139	42.201	42.263	42.334	42.396	42.458
178	41.961	41.997	42.041	42.086	42.121	42.165	42.210	42.245	42.290	42.334
179	42.023	42.041	42.059	42.086	42.103	42.130	42.148	42.165	42.192	42.210
180	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272

**Vert. Angles**      **Horizontal Angles**

	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639	2491.639
1	2488.347	2488.799	2489.261	2489.722	2490.184	2490.627	2491.071	2491.488	2491.887	2492.260
2	2488.232	2490.095	2491.905	2493.653	2494.824	2494.718	2494.656	2494.629	2494.665	2494.753
3	2491.080	2490.911	2490.716	2489.536	2487.974	2486.652	2487.841	2489.935	2491.941	2493.804
4	2487.992	2485.046	2483.697	2486.439	2490.707	2498.045	2504.674	2508.791	2511.950	2514.629
5	2479.784	2482.615	2490.752	2501.107	2507.229	2511.630	2513.769	2515.969	2518.924	2521.444
6	2478.986	2493.467	2502.748	2507.992	2511.746	2516.661	2521.648	2526.706	2533.041	2539.110
7	2490.672	2500.645	2505.144	2512.012	2518.809	2528.454	2538.889	2548.223	2554.727	2557.673

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**CANDELA TABULATION - (Cont.)**

8	2494.434	2501.222	2509.625	2519.518	2533.698	2546.573	2552.403	2549.066	2544.230	2540.379
9	2494.603	2503.760	2516.794	2534.221	2543.858	2539.572	2532.429	2524.878	2516.315	2506.732
10	2495.508	2509.217	2529.031	2535.331	2526.280	2515.978	2501.506	2485.019	2468.604	2452.118
11	2497.406	2518.942	2526.457	2514.691	2499.598	2478.613	2455.711	2427.778	2407.840	2395.152
12	2502.775	2518.702	2506.874	2487.708	2459.953	2426.794	2397.343	2381.762	2375.240	2370.804
13	2506.848	2502.065	2482.633	2450.361	2408.178	2377.592	2365.515	2359.384	2356.118	2350.725
14	2499.412	2483.236	2449.704	2402.197	2366.846	2351.345	2346.172	2345.018	2343.137	2343.031
15	2483.103	2455.330	2409.988	2360.688	2341.167	2336.358	2331.833	2334.122	2344.681	2357.583
16	2465.081	2423.528	2366.127	2334.495	2326.935	2321.185	2330.448	2348.496	2370.289	2392.428
17	2438.959	2388.115	2334.530	2315.612	2310.812	2324.503	2349.322	2377.086	2392.783	2395.400
18	2409.198	2346.740	2308.594	2305.062	2309.800	2341.141	2373.563	2380.032	2377.352	2361.451
19	2376.482	2313.997	2294.379	2293.057	2320.635	2360.156	2367.183	2348.115	2314.654	2282.915
20	2337.183	2286.845	2282.045	2298.478	2337.991	2353.279	2325.763	2276.473	2238.114	2219.764
21	2300.688	2270.891	2273.216	2307.760	2341.327	2318.674	2255.763	2209.657	2193.916	2182.177
22	2270.102	2256.366	2275.852	2319.410	2317.529	2252.994	2195.629	2171.742	2149.648	2134.732
23	2245.665	2245.558	2281.992	2311.779	2263.234	2192.550	2157.403	2128.184	2106.427	2106.285
24	2230.802	2246.756	2289.472	2275.159	2200.660	2154.085	2115.122	2091.103	2100.561	2123.330
25	2215.753	2243.172	2282.480	2218.256	2151.032	2110.011	2077.793	2093.170	2133.774	2165.939
26	2200.749	2243.935	2247.928	2161.627	2109.310	2073.010	2078.565	2126.906	2165.469	2176.436
27	2196.543	2242.408	2196.339	2118.707	2069.683	2058.955	2104.696	2149.701	2145.682	2110.047
28	2192.665	2227.901	2142.603	2074.598	2038.520	2074.945	2129.435	2122.975	2063.889	2016.896
29	2187.900	2192.435	2099.000	2040.268	2039.727	2098.929	2109.834	2046.550	1977.437	1936.354
30	2185.088	2146.738	2055.690	2009.159	2059.789	2094.537	2042.336	1963.320	1901.190	1873.434
31	2178.158	2099.071	2018.546	2004.376	2070.774	2045.326	1957.126	1888.616	1848.740	1843.159
32	2155.442	2055.796	1988.147	2015.689	2053.427	1968.573	1881.979	1838.287	1829.822	1848.580
33	2118.565	2016.071	1968.821	2027.482	1998.857	1888.279	1826.548	1816.371	1838.403	1865.892
34	2075.362	1980.569	1973.178	2014.199	1928.182	1826.087	1800.408	1819.849	1848.793	1835.652
35	2029.576	1951.030	1984.527	1972.974	1853.461	1783.309	1798.784	1827.098	1811.952	1768.109
36	1983.976	1929.531	1983.870	1911.057	1794.569	1770.221	1806.646	1792.564	1744.906	1691.427
37	1938.377	1922.565	1959.921	1839.796	1755.509	1769.866	1785.838	1722.643	1668.392	1631.498
38	1900.240	1918.741	1908.616	1779.023	1742.182	1768.296	1722.111	1650.974	1614.621	1607.842
39	1869.015	1910.923	1844.295	1734.755	1740.381	1739.076	1647.301	1597.238	1594.638	1600.299
40	1844.978	1885.413	1777.009	1714.435	1735.145	1673.281	1588.915	1577.939	1577.344	1555.410
41	1831.162	1841.943	1715.101	1705.624	1706.316	1602.562	1559.012	1557.264	1531.798	1490.041
42	1821.313	1787.240	1671.782	1691.170	1645.171	1557.113	1540.210	1513.351	1467.148	1436.820
43	1806.344	1725.793	1647.860	1666.627	1572.730	1531.665	1506.235	1455.205	1415.275	1404.796
44	1780.629	1664.133	1635.952	1618.481	1523.759	1505.560	1459.073	1401.034	1388.922	1395.603
45	1734.533	1610.326	1615.890	1550.751	1492.552	1470.378	1408.443	1369.383	1370.013	1365.541
46	1682.199	1577.025	1585.286	1493.599	1460.325	1423.758	1366.171	1351.539	1330.297	1267.883
47	1625.535	1559.137	1535.720	1448.736	1422.427	1373.296	1340.953	1314.591	1237.173	1204.368
48	1570.201	1538.267	1472.534	1412.853	1382.746	1328.132	1306.029	1241.130	1189.089	1201.946
49	1522.561	1508.604	1419.295	1377.635	1334.645	1295.931	1251.041	1188.246	1190.020	1199.524
50	1480.875	1469.535	1374.104	1344.121	1291.618	1247.847	1193.880	1170.091	1171.369	1134.572
51	1452.445	1419.464	1337.706	1303.233	1246.622	1200.162	1163.596	1149.976	1103.684	1034.846
52	1425.169	1366.402	1300.989	1256.206	1192.611	1156.169	1135.761	1096.657	1016.132	1001.066
53	1395.249	1315.869	1266.073	1209.444	1153.170	1119.354	1089.815	1020.196	986.966	1014.446
54	1359.782	1270.420	1231.174	1160.286	1118.866	1070.844	1027.268	984.002	991.030	937.391
55	1279.107	1230.677	1189.426	1112.752	1080.028	1028.422	970.914	976.407	923.505	855.794
56	1202.532	1180.721	1140.295	1081.758	1029.273	973.745	937.684	913.620	854.312	829.334
57	1134.811	1120.703	1084.687	1047.011	982.538	929.778	904.649	848.793	817.266	803.477
58	1067.171	1062.610	1026.647	1000.498	937.942	892.529	842.803	803.025	789.635	747.310
59	980.941	1005.209	982.636	951.180	895.563	852.200	796.875	773.468	736.866	699.386
60	889.387	930.506	936.131	901.774	858.704	803.459	751.276	723.636	687.105	655.561
61	783.149	848.881	882.449	855.953	822.918	764.683	713.680	680.015	644.283	626.075
62	676.644	747.949	804.773	812.599	785.748	721.870	668.463	636.395	597.149	571.807
63	572.304	648.853	719.457	761.906	752.004	679.749	637.513	581.416	552.925	518.239

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**CANDELA TABULATION - (Cont.)**

64	514.592	549.038	623.555	697.993	710.033	637.300	600.787	531.682	512.241	485.062
65	490.945	471.850	528.798	626.040	667.726	613.218	555.870	501.176	457.724	444.121
66	466.872	447.963	435.151	541.460	607.379	592.818	504.477	466.083	421.610	399.081
67	443.793	425.851	407.919	452.826	537.716	563.368	471.185	411.202	376.570	353.340
68	411.805	405.949	391.024	377.519	455.976	516.642	462.764	377.679	334.750	319.675
69	378.078	379.143	374.609	356.898	376.392	466.455	435.967	354.520	307.962	294.661
70	335.824	350.509	353.091	338.255	315.247	392.426	423.651	320.651	281.635	274.226
71	294.413	314.182	327.803	322.434	300.393	316.055	390.128	303.348	263.774	258.317
72	253.223	278.281	297.048	300.899	285.957	260.517	331.955	309.994	248.050	242.567
73	226.400	242.806	266.098	276.853	267.784	243.836	270.668	315.247	233.756	227.074
74	214.013	220.934	236.125	250.792	248.068	228.449	218.139	296.826	215.858	212.513
75	201.635	207.917	214.873	224.962	226.923	213.995	203.977	244.022	223.587	198.422
76	189.256	194.900	199.709	203.391	206.692	199.186	189.425	196.533	231.857	183.711
77	178.183	182.078	184.554	186.914	187.579	183.453	175.166	172.584	213.542	168.422
78	167.375	169.851	169.966	170.321	171.217	168.768	162.530	158.067	175.707	157.473
79	157.606	158.076	156.239	154.757	155.104	153.693	149.593	144.225	142.477	156.426
80	147.765	146.718	143.772	140.347	139.664	138.706	136.292	131.146	128.697	147.162
81	137.854	135.343	131.616	127.907	125.440	124.118	121.589	118.298	115.059	119.478
82	126.967	123.941	119.478	115.520	112.725	110.409	107.525	105.112	101.296	98.288
83	115.644	112.397	107.854	103.293	100.001	97.499	94.517	91.953	87.818	85.653
84	104.313	100.853	96.514	92.086	87.996	84.624	82.343	79.291	75.626	72.805
85	93.293	89.327	85.209	80.906	76.806	73.302	70.302	67.002	63.692	60.356
86	83.452	79.309	74.925	70.196	65.653	62.485	59.557	55.253	52.174	48.776
87	74.313	69.903	65.440	60.879	56.292	52.583	48.936	45.102	41.535	37.658
88	65.981	61.695	57.516	53.115	48.386	44.322	40.444	36.176	32.068	28.243
89	57.658	53.505	49.619	45.679	41.367	37.401	34.082	29.654	25.439	21.127
90	49.344	45.333	41.740	38.270	34.366	30.497	27.773	23.780	20.178	16.912
91	45.715	42.068	38.687	35.422	31.855	28.288	25.528	22.059	18.714	15.732
92	42.094	38.811	35.635	32.591	29.344	26.096	23.292	20.533	17.569	15.147
93	38.474	35.555	32.600	29.912	27.187	24.419	21.837	19.699	17.081	14.951
94	35.342	32.955	30.417	27.977	25.608	23.363	21.154	19.210	16.877	14.996
95	32.627	30.666	28.669	26.708	24.730	22.636	20.506	19.015	16.921	15.235
96	30.621	29.202	27.471	25.661	23.869	22.023	20.311	18.918	17.072	15.963
97	28.794	27.729	26.274	24.614	23.274	21.775	20.133	18.829	17.241	17.099
98	26.957	26.247	25.271	24.126	22.902	21.526	20.036	18.785	18.101	18.687
99	25.555	25.493	24.747	23.691	22.538	21.349	20.009	18.989	19.148	20.231
100	25.102	24.943	24.224	23.257	22.254	21.198	20.009	20.018	20.595	21.757
101	24.659	24.401	23.727	22.928	22.014	21.074	20.763	21.225	22.245	23.416
102	24.224	23.940	23.363	22.662	21.810	21.189	21.864	22.769	24.108	25.235
103	23.904	23.594	23.106	22.458	21.606	22.343	23.079	24.472	25.990	27.392
104	23.638	23.399	22.919	22.263	22.591	23.541	24.543	26.105	27.693	29.495
105	23.505	23.248	22.733	22.822	23.816	24.898	26.211	27.693	29.299	31.322
106	23.372	23.106	23.079	23.958	25.040	26.407	27.906	29.344	30.985	33.026
107	23.239	23.390	24.153	25.093	26.353	28.022	29.574	31.083	33.035	34.881
108	23.603	24.339	25.209	26.291	27.693	29.601	31.234	32.902	35.094	36.389
109	24.455	25.280	26.265	27.525	29.069	30.976	32.822	34.721	37.046	37.818
110	25.297	26.211	27.347	28.820	30.444	32.236	34.322	36.487	38.865	39.193
111	26.132	27.187	28.439	30.080	31.731	33.487	35.653	38.155	40.515	40.524
112	26.992	28.155	29.539	31.314	32.884	34.747	36.877	39.690	42.032	41.740
113	27.853	29.140	30.630	32.290	33.993	35.954	38.137	40.950	42.911	42.787
114	28.740	30.107	31.668	33.195	35.031	37.099	39.486	42.121	43.576	43.603
115	29.619	31.056	32.494	34.082	35.999	38.199	40.755	43.248	44.197	44.428
116	30.497	31.810	33.292	34.960	36.904	39.246	41.908	44.384	44.810	45.271
117	31.287	32.485	34.055	35.821	37.791	40.231	42.920	45.236	45.378	46.070
118	31.970	33.168	34.765	36.673	38.669	41.198	43.789	45.626	45.928	46.646
119	32.636	33.851	35.475	37.489	39.628	42.148	44.579	46.025	46.407	47.117

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**CANDELA TABULATION - (Cont.)**

120	33.301	34.597	36.203	38.252	40.622	43.071	45.360	46.425	46.850	47.454
121	34.002	35.351	36.948	38.989	41.553	43.976	46.034	46.842	47.312	47.791
122	34.712	36.132	37.676	39.814	42.405	44.774	46.469	47.285	47.676	48.137
123	35.457	36.913	38.483	40.657	43.115	45.511	46.904	47.764	48.013	48.403
124	36.194	37.693	39.441	41.535	43.807	46.185	47.303	48.155	48.368	48.696
125	36.921	38.536	40.400	42.396	44.499	46.549	47.614	48.545	48.652	49.024
126	37.649	39.477	41.349	43.266	45.209	46.815	47.889	48.900	48.882	49.202
127	38.483	40.400	42.272	44.109	45.937	47.197	48.226	49.007	48.953	49.291
128	39.299	41.287	43.177	44.952	46.567	47.614	48.528	49.007	48.945	49.379
129	40.089	42.148	44.055	45.821	47.108	48.075	48.847	48.980	48.891	49.388
130	40.870	42.991	44.907	46.700	47.685	48.607	49.317	49.042	48.874	49.335
131	41.660	43.816	45.750	47.303	48.288	49.166	49.805	49.113	48.794	49.326
132	42.467	44.597	46.584	47.853	48.882	49.717	49.965	49.202	48.776	49.370
133	43.328	45.360	47.188	48.386	49.441	50.320	50.178	49.379	48.856	49.468
134	44.215	46.114	47.649	48.882	49.974	50.950	50.409	49.583	49.104	49.646
135	45.111	46.655	48.102	49.353	50.480	51.482	50.542	49.761	49.397	49.903
136	45.990	47.126	48.536	49.796	50.985	51.527	50.675	49.938	49.752	50.196
137	46.567	47.614	48.953	50.231	51.500	51.491	50.737	50.071	50.071	50.533
138	47.161	48.119	49.344	50.639	51.970	51.349	50.755	50.196	50.347	50.843
139	47.756	48.661	49.761	51.048	51.802	51.181	50.675	50.231	50.586	51.101
140	48.350	49.229	50.213	51.447	51.536	51.003	50.542	50.276	50.799	51.314
141	48.945	49.805	50.684	51.686	51.225	50.772	50.347	50.311	50.897	51.447
142	49.539	50.391	51.198	51.367	50.897	50.489	50.116	50.293	50.914	51.536
143	50.125	50.968	51.740	51.030	50.568	50.169	49.832	50.240	50.879	51.491
144	50.710	51.544	51.491	50.728	50.231	49.832	49.495	50.160	50.799	51.420
145	51.305	51.961	51.234	50.426	49.894	49.477	49.370	50.036	50.648	51.287
146	51.882	51.615	50.941	50.160	49.548	49.122	49.273	49.903	50.497	51.074
147	51.740	51.252	50.622	49.903	49.237	48.758	49.175	49.761	50.338	50.852
148	51.278	50.861	50.267	49.637	48.936	48.528	49.095	49.654	50.187	50.657
149	50.808	50.444	49.903	49.344	48.670	48.519	49.024	49.548	50.054	50.480
150	50.320	50.018	49.539	49.007	48.412	48.545	48.971	49.459	49.938	50.320
151	49.805	49.548	49.166	48.643	48.306	48.607	48.971	49.397	49.832	50.178
152	49.264	49.060	48.749	48.252	48.341	48.670	48.980	49.362	49.770	50.045
153	48.705	48.572	48.297	47.986	48.341	48.714	49.033	49.370	49.725	49.956
154	48.137	48.048	47.818	47.995	48.332	48.714	49.069	49.397	49.690	49.885
155	47.551	47.498	47.498	47.951	48.341	48.687	49.060	49.406	49.663	49.832
156	46.921	46.921	47.436	47.889	48.315	48.661	48.998	49.370	49.610	49.779
157	46.265	46.806	47.339	47.809	48.235	48.634	48.971	49.291	49.521	49.699
158	46.016	46.691	47.223	47.711	48.146	48.545	48.918	49.211	49.388	49.583
159	45.866	46.540	47.090	47.587	48.031	48.421	48.811	49.104	49.291	49.433
160	45.715	46.362	46.939	47.427	47.880	48.288	48.652	48.936	49.149	49.317
161	45.546	46.176	46.762	47.268	47.702	48.119	48.474	48.732	48.953	49.140
162	45.369	45.990	46.558	47.072	47.516	47.915	48.261	48.519	48.732	48.909
163	45.209	45.786	46.336	46.842	47.303	47.685	47.995	48.270	48.492	48.670
164	45.040	45.564	46.114	46.593	47.046	47.427	47.711	47.977	48.208	48.394
165	44.872	45.360	45.866	46.345	46.753	47.108	47.418	47.676	47.880	48.066
166	44.685	45.165	45.599	46.079	46.451	46.780	47.072	47.330	47.543	47.711
167	44.490	44.961	45.360	45.741	46.123	46.442	46.709	46.957	47.161	47.330
168	44.260	44.721	45.102	45.431	45.759	46.079	46.354	46.567	46.762	46.913
169	44.038	44.437	44.810	45.129	45.413	45.679	45.945	46.176	46.354	46.487
170	43.816	44.144	44.499	44.819	45.085	45.315	45.528	45.724	45.901	46.043
171	43.594	43.878	44.171	44.464	44.730	44.952	45.147	45.307	45.449	45.564
172	43.390	43.630	43.869	44.100	44.339	44.561	44.748	44.898	45.023	45.120
173	43.204	43.390	43.585	43.771	43.958	44.135	44.304	44.446	44.570	44.659
174	43.026	43.177	43.328	43.479	43.621	43.754	43.878	43.984	44.082	44.162
175	42.840	42.964	43.088	43.204	43.310	43.408	43.505	43.585	43.647	43.701



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**CANDELA TABULATION - (Cont.)**

176	42.671	42.769	42.849	42.937	43.026	43.097	43.168	43.221	43.275	43.310
177	42.520	42.582	42.645	42.698	42.751	42.795	42.849	42.884	42.920	42.946
178	42.370	42.405	42.449	42.485	42.512	42.547	42.565	42.591	42.609	42.618
179	42.228	42.245	42.263	42.281	42.290	42.307	42.316	42.325	42.334	42.334
180	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272	42.272

**Vert. Horizontal Angles**  
**Angles**

	<b>350</b>	<b>355</b>	<b>360</b>
0	2491.639	2491.639	2491.639
1	2492.606	2492.917	2493.192
2	2494.904	2495.144	2495.472
3	2495.472	2496.883	2497.992
4	2516.839	2518.578	2519.856
5	2523.565	2525.268	2526.582
6	2544.106	2547.957	2550.566
7	2560.096	2562.110	2563.849
8	2538.019	2537.185	2537.904
9	2499.651	2495.889	2495.472
10	2439.056	2431.266	2428.870
11	2390.121	2387.858	2388.239
12	2368.053	2367.281	2368.443
13	2353.909	2354.379	2356.101
14	2348.283	2352.747	2356.296
15	2371.576	2382.782	2390.041
16	2402.428	2408.497	2413.120
17	2395.107	2395.019	2397.246
18	2340.617	2324.512	2320.058
19	2259.134	2244.263	2240.705
20	2212.453	2208.575	2209.090
21	2168.788	2158.406	2156.356
22	2124.191	2118.059	2118.201
23	2114.058	2123.374	2129.470
24	2148.033	2169.977	2182.408
25	2186.969	2198.877	2207.315
26	2170.056	2151.565	2146.463
27	2077.571	2056.737	2051.297
28	1992.264	1974.198	1968.395
29	1914.748	1900.586	1896.256
30	1863.487	1859.077	1858.501
31	1847.959	1859.965	1868.093
32	1869.335	1884.960	1894.339
33	1872.085	1865.990	1864.588
34	1816.060	1804.001	1799.902
35	1743.761	1729.067	1722.368
36	1670.336	1662.234	1660.948
37	1625.659	1626.546	1628.685
38	1617.877	1628.135	1636.120
39	1594.416	1587.620	1580.681
40	1524.992	1513.777	1506.785
41	1466.855	1461.487	1458.097
42	1424.015	1425.551	1425.133
43	1411.868	1419.588	1428.470
44	1396.722	1394.805	1394.131
45	1314.023	1292.701	1276.215
46	1223.029	1219.320	1218.477

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CANDELA TABULATION - (Cont.)

47	1204.120	1215.522	1219.284
48	1223.419	1234.342	1249.701
49	1192.523	1167.935	1155.229
50	1074.420	1056.541	1047.632
51	1001.341	1005.804	1002.255
52	1019.752	1035.476	1056.337
53	995.653	967.596	957.028
54	895.244	879.299	881.748
55	843.912	846.148	851.588
56	832.555	819.582	814.782
57	774.275	762.447	769.511
58	732.110	726.742	737.390
59	684.292	654.478	651.612
60	642.686	644.878	644.256
61	602.952	578.843	571.425
62	535.356	528.869	532.312
63	514.450	504.938	499.597
64	443.935	434.742	436.038
65	428.434	406.171	401.503
66	368.903	362.940	363.624
67	338.681	328.158	333.313
68	312.301	307.332	309.062
69	291.769	285.469	285.717
70	274.022	269.222	269.905
71	257.758	254.758	254.883
72	240.641	238.396	238.503
73	223.915	223.259	222.478
74	208.520	207.793	207.509
75	193.977	192.406	191.493
76	179.318	176.470	176.133
77	164.332	161.670	160.978
78	149.842	146.674	145.299
79	135.964	133.204	130.684
80	122.672	118.794	115.857
81	108.608	104.056	101.643
82	96.940	90.906	88.084
83	88.262	78.244	74.482
84	70.737	65.493	61.403
85	56.975	53.709	48.199
86	45.111	41.740	35.147
87	34.242	29.920	22.192
88	24.508	20.213	10.444
89	17.427	14.126	3.265
90	14.055	11.668	2.334
91	13.283	11.171	2.786
92	13.026	11.109	3.390
93	13.123	11.739	4.463
94	13.656	12.786	6.140
95	14.730	13.913	8.332
96	16.256	14.996	10.577
97	17.915	16.664	12.591
98	19.450	18.394	14.934
99	20.967	19.796	17.037
100	22.520	21.207	18.935
101	24.339	23.239	21.163
102	26.238	25.546	23.594

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**CANDELA TABULATION - (Cont.)**

103	27.986	27.888	26.025
104	29.645	29.805	28.172
105	31.030	31.358	30.000
106	32.494	32.911	31.837
107	34.180	34.650	33.771
108	36.087	36.540	35.777
109	37.871	38.368	37.667
110	39.619	40.142	39.601
111	41.367	41.890	41.482
112	42.982	43.532	43.266
113	44.313	44.872	44.863
114	45.413	45.910	46.034
115	46.238	46.726	46.939
116	46.877	47.480	47.764
117	47.516	48.164	48.510
118	47.977	48.687	49.016
119	48.386	49.131	49.477
120	48.563	49.370	49.894
121	48.732	49.486	50.080
122	48.927	49.619	50.205
123	49.193	49.894	50.382
124	49.504	50.178	50.737
125	49.752	50.506	51.154
126	49.974	50.710	51.394
127	50.098	50.799	51.420
128	50.169	50.799	51.402
129	50.213	50.799	51.340
130	50.142	50.755	51.287
131	50.125	50.675	51.234
132	50.125	50.630	51.163
133	50.125	50.622	51.181
134	50.293	50.684	51.234
135	50.515	50.861	51.402
136	50.755	51.056	51.580
137	51.012	51.287	51.784
138	51.314	51.553	52.041
139	51.571	51.837	52.290
140	51.766	52.059	52.520
141	51.882	52.192	52.689
142	51.926	52.228	52.680
143	51.926	52.228	52.654
144	51.828	52.148	52.565
145	51.686	52.015	52.432
146	51.482	51.811	52.228
147	51.216	51.544	51.917
148	50.994	51.269	51.651
149	50.790	51.048	51.420
150	50.613	50.861	51.225
151	50.453	50.701	51.074
152	50.311	50.542	50.906
153	50.187	50.400	50.772
154	50.089	50.284	50.657
155	50.018	50.196	50.568
156	49.947	50.107	50.453
157	49.859	50.000	50.320
158	49.752	49.885	50.196

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

<b>159</b>	49.583	49.725	50.036
<b>160</b>	49.450	49.557	49.832
<b>161</b>	49.282	49.397	49.672
<b>162</b>	49.060	49.175	49.459
<b>163</b>	48.811	48.927	49.202
<b>164</b>	48.536	48.643	48.918
<b>165</b>	48.208	48.315	48.590
<b>166</b>	47.835	47.933	48.181
<b>167</b>	47.454	47.534	47.773
<b>168</b>	47.028	47.099	47.347
<b>169</b>	46.593	46.655	46.895
<b>170</b>	46.150	46.212	46.442
<b>171</b>	45.653	45.706	45.954
<b>172</b>	45.191	45.236	45.457
<b>173</b>	44.721	44.765	44.978
<b>174</b>	44.224	44.260	44.472
<b>175</b>	43.736	43.763	43.958
<b>176</b>	43.337	43.354	43.550
<b>177</b>	42.964	42.973	43.168
<b>178</b>	42.627	42.636	42.831
<b>179</b>	42.343	42.343	42.538
<b>180</b>	42.272	42.272	42.272

**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	910.37	N.A.	14.40
0-30	1914.19	N.A.	30.20
0-40	3102.99	N.A.	49.00
0-60	5276.07	N.A.	83.40
0-80	6021.19	N.A.	95.10
0-90	6110.17	N.A.	96.50
10-90	5872.15	N.A.	92.80
20-40	2192.62	N.A.	34.60
20-50	3386.6	N.A.	53.50
40-70	2691.22	N.A.	42.50
60-80	745.12	N.A.	11.80
70-80	226.98	N.A.	3.60
80-90	88.98	N.A.	1.40
90-110	49.60	N.A.	0.80
90-120	81.78	N.A.	1.30
90-130	116.81	N.A.	1.80
90-150	181.18	N.A.	2.90
90-180	219.12	N.A.	3.50
110-180	169.52	N.A.	2.70
0-180	6329.29	N.A.	100.00

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	238.02
10-20	672.35
20-30	1003.82
30-40	1188.8
40-50	1193.98
50-60	979.10
60-70	518.14
70-80	226.98
80-90	88.98
90-100	25.28
100-110	24.32
110-120	32.18
120-130	35.03
130-140	34.40
140-150	29.97
150-160	21.34
160-170	12.51
170-180	4.08

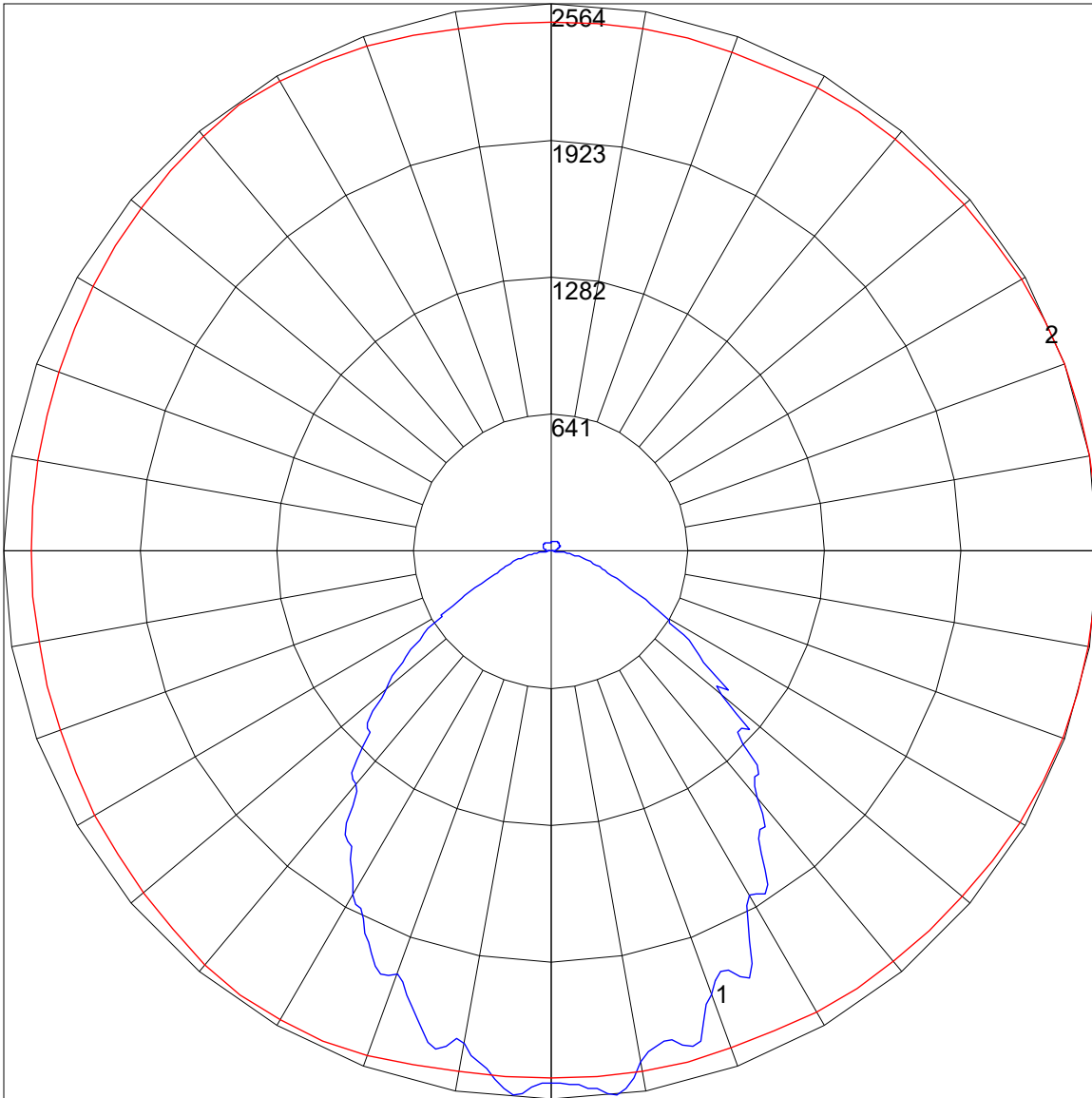
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LHBL48MWCB-40.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	118	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	109	105	101	97	96	106	102	99	96	97	94	92	93	91	88	89	87	85	83
2	100	93	86	81	81	97	90	85	80	86	82	77	83	79	75	79	76	73	71
3	92	82	74	68	68	89	80	73	68	77	71	66	74	69	64	71	67	63	61
4	84	73	65	59	59	82	72	64	58	69	62	57	66	60	56	64	59	55	53
5	78	66	57	51	51	76	64	56	51	62	55	50	60	54	49	58	52	48	46
6	72	59	51	45	45	70	58	50	44	56	49	44	54	48	43	52	47	43	40
7	67	54	46	40	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	36	61	48	41	35	47	40	35	45	39	35	44	38	34	32
9	58	45	37	32	32	57	45	37	32	43	36	32	42	36	31	41	35	31	29
10	55	42	34	29	29	53	41	34	29	40	33	29	39	33	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 2563.849 Located At Horizontal Angle = 0, Vertical Angle = 7  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)