



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48LWCB-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 32024
 [TESTLAB] DATA CENTER
 [ISSUEDATE] 2017-2-17
 [MANUFAC] LAMAR LIGHTING CO., INC.
 [LUMCAT] LHBL48LWCB-40
 [LUMINAIRE] 4' SUSPENDED MOUNT LOUVERED LED
 [MORE]POST PAINTED WHITE STRAIGHT BLADE BAFFLE
 {LAMP} 4000K 32 CHIP LED BOARDS (4)

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4312
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	36.67
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	4085	5167	6038
55	3361	4643	5836
65	2150	3899	3012
75	1675	2583	1667
85	1252	2586	2279

CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635
1	1698.693	1698.602	1698.481	1698.336	1698.167	1697.973	1697.762	1697.532	1697.284	1697.024
2	1700.246	1700.240	1700.301	1700.410	1700.579	1700.791	1701.044	1701.329	1701.649	1700.960
3	1701.963	1701.613	1701.026	1700.234	1699.249	1698.082	1696.764	1696.069	1697.308	1698.741
4	1716.860	1716.521	1715.868	1714.883	1713.559	1711.890	1709.545	1705.512	1700.978	1697.991
5	1721.442	1720.953	1720.227	1719.314	1718.226	1716.999	1716.237	1715.548	1713.160	1709.436
6	1737.784	1736.895	1735.117	1732.457	1728.915	1724.949	1721.388	1718.075	1716.207	1714.834
7	1746.834	1746.580	1746.187	1745.625	1744.857	1741.465	1735.891	1728.963	1721.878	1716.273
8	1729.157	1729.519	1730.988	1733.606	1737.391	1741.756	1745.262	1743.206	1735.244	1725.191
9	1700.246	1701.190	1704.460	1710.077	1717.543	1724.610	1731.236	1737.723	1742.330	1737.844
10	1654.868	1656.591	1661.990	1670.998	1682.865	1696.250	1709.007	1720.566	1729.689	1737.995
11	1627.185	1627.415	1629.428	1633.273	1641.846	1654.747	1673.990	1693.264	1710.415	1722.881
12	1613.698	1613.879	1615.342	1618.087	1621.273	1625.354	1635.619	1654.904	1679.812	1703.783
13	1605.288	1605.137	1605.482	1605.990	1608.456	1612.216	1616.364	1623.213	1643.031	1673.785
14	1605.421	1604.055	1602.332	1600.609	1601.346	1601.691	1603.076	1609.073	1616.654	1639.645
15	1628.413	1625.710	1619.622	1610.391	1601.897	1596.304	1596.577	1596.752	1603.680	1612.386
16	1644.137	1643.775	1642.451	1638.297	1624.670	1607.985	1594.176	1591.619	1590.936	1598.614
17	1633.322	1633.787	1636.085	1639.125	1641.193	1633.056	1612.658	1591.117	1585.997	1584.032
18	1580.731	1585.386	1598.324	1614.810	1628.231	1633.630	1634.023	1609.992	1581.716	1579.691
19	1526.665	1530.849	1542.208	1559.620	1583.458	1610.173	1626.968	1627.820	1597.242	1572.557
20	1505.125	1506.497	1510.802	1517.760	1531.623	1557.830	1596.879	1619.780	1615.094	1577.388
21	1469.196	1471.239	1479.842	1491.286	1502.181	1515.027	1545.322	1593.965	1616.086	1595.488
22	1443.200	1444.584	1450.225	1457.328	1467.999	1489.430	1506.769	1545.884	1595.549	1606.201
23	1450.878	1447.407	1441.386	1437.686	1441.053	1453.586	1480.344	1505.977	1556.397	1596.988
24	1486.946	1481.752	1468.621	1451.355	1434.204	1430.673	1445.382	1479.896	1512.567	1568.712
25	1503.916	1502.017	1497.634	1486.577	1464.323	1430.951	1422.759	1444.403	1479.008	1526.889
26	1462.455	1469.776	1486.002	1494.448	1490.361	1463.471	1420.994	1420.232	1447.141	1488.264
27	1397.616	1405.596	1422.892	1448.006	1477.744	1482.998	1448.604	1408.492	1417.699	1459.057
28	1341.132	1350.073	1368.162	1388.862	1420.444	1465.139	1472.194	1427.675	1398.021	1423.672
29	1291.981	1296.455	1308.213	1330.685	1367.388	1411.061	1459.710	1453.834	1399.121	1397.447
30	1266.257	1267.400	1274.038	1282.610	1305.977	1361.282	1412.591	1452.885	1425.534	1380.785
31	1272.792	1268.996	1260.967	1257.430	1268.161	1300.602	1359.522	1417.965	1439.717	1379.805
32	1290.675	1287.828	1281.353	1267.073	1249.221	1260.302	1302.216	1369.177	1427.795	1399.611
33	1270.404	1274.769	1280.380	1281.262	1264.111	1240.569	1255.677	1317.058	1390.379	1412.524
34	1226.332	1233.768	1245.170	1260.774	1272.260	1252.642	1231.477	1260.846	1345.618	1403.988
35	1173.505	1185.959	1201.968	1220.703	1248.471	1261.130	1238.647	1227.716	1293.408	1373.657
36	1131.658	1137.171	1146.276	1171.305	1208.902	1238.677	1250.732	1216.774	1241.936	1330.685
37	1109.676	1109.247	1111.973	1124.989	1156.814	1199.405	1235.044	1227.148	1208.570	1281.764
38	1114.742	1113.152	1108.316	1098.794	1114.488	1150.599	1199.997	1228.647	1197.392	1231.477
39	1076.969	1087.519	1097.482	1104.434	1092.845	1105.359	1154.498	1206.267	1202.331	1189.605
40	1026.622	1035.496	1048.228	1074.992	1091.968	1084.200	1108.346	1170.440	1203.836	1172.623
41	993.449	1002.149	1009.778	1027.274	1063.469	1083.341	1077.622	1122.964	1183.408	1173.082
42	970.990	974.907	978.922	995.039	1017.656	1055.000	1069.291	1082.791	1147.576	1175.736
43	973.263	969.086	963.614	966.123	984.333	1013.871	1051.904	1058.343	1102.173	1166.396
44	949.867	958.318	964.418	957.647	957.182	979.696	1019.953	1043.948	1064.884	1141.464
45	869.527	888.576	910.866	948.246	948.500	951.221	982.900	1022.777	1039.728	1099.822
46	830.188	837.872	847.460	886.611	932.008	937.316	951.698	993.649	1023.949	1059.866
47	830.738	828.676	826.476	837.044	871.008	918.931	929.831	959.292	1002.221	1023.671
48	851.462	842.708	833.005	823.211	830.424	879.478	908.436	932.340	976.890	998.642
49	787.095	807.390	829.390	824.191	817.426	832.679	880.245	909.548	947.007	975.294
50	713.786	729.988	750.767	797.699	813.514	813.562	841.402	883.305	916.579	951.831
51	682.869	688.824	697.765	733.331	781.823	798.829	813.145	855.422	884.139	925.454
52	719.717	704.445	691.351	693.001	726.246	771.763	796.121	827.522	850.918	896.556
53	652.054	669.671	691.574	686.865	691.048	725.424	771.558	798.787	823.072	866.655

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CANDELA TABULATION - (Cont.)

54	600.763	610.600	630.592	664.297	679.175	690.474	740.731	766.364	801.163	836.167
55	580.214	579.549	590.697	610.025	652.121	671.261	704.288	736.058	777.355	801.592
56	555.137	566.303	571.962	581.611	612.014	644.963	669.514	706.422	747.992	771.896
57	524.293	527.853	542.756	557.961	575.287	610.243	647.327	675.795	712.819	749.473
58	502.408	500.298	512.830	530.266	552.580	584.235	610.013	642.714	679.163	723.078
59	443.965	456.509	480.335	498.526	523.289	549.086	578.201	618.447	653.124	692.294
60	438.953	442.889	447.181	468.443	492.825	525.085	551.625	585.462	621.312	664.333
61	389.331	408.253	423.651	440.495	462.603	493.962	520.230	554.037	592.372	642.146
62	362.682	364.290	382.553	408.169	435.380	463.661	495.304	526.118	565.143	622.927
63	340.391	351.225	359.175	378.201	405.406	429.939	466.037	494.512	542.853	601.048
64	297.087	308.979	327.478	348.221	373.382	400.660	438.004	468.105	524.915	556.195
65	273.557	290.618	303.290	321.813	346.123	374.174	405.442	450.603	508.102	496.029
66	247.749	258.123	272.064	292.601	317.769	346.346	374.990	430.683	468.860	426.003
67	227.097	231.970	245.312	263.340	285.939	315.441	350.862	413.567	418.555	356.799
68	210.574	212.745	220.785	237.489	256.666	292.879	334.697	384.869	360.566	297.812
69	194.668	196.712	204.897	215.163	234.914	266.248	316.451	350.101	304.813	280.044
70	183.895	186.211	188.617	196.246	211.463	237.556	303.544	305.061	261.768	259.773
71	173.660	174.156	178.720	181.543	193.066	220.441	275.268	260.571	240.917	237.368
72	162.500	163.479	166.405	168.648	177.275	208.930	246.316	221.813	220.114	222.732
73	151.581	153.256	155.064	158.135	164.283	199.311	214.867	200.285	202.564	212.714
74	141.382	142.592	144.768	148.619	153.498	186.331	185.225	179.022	189.572	207.207
75	130.470	132.042	134.230	138.753	143.758	171.344	166.580	163.195	181.767	201.246
76	120.005	121.498	124.116	128.699	133.868	160.148	148.039	152.724	174.083	187.843
77	109.679	111.360	114.256	118.790	127.478	143.063	133.451	147.676	165.317	166.000
78	98.997	101.252	103.978	109.002	125.283	124.600	123.832	142.102	146.908	144.780
79	89.040	91.083	93.967	99.287	120.205	109.474	116.317	127.659	128.959	126.359
80	78.937	81.053	84.342	91.929	102.255	99.130	107.086	111.952	112.877	111.293
81	69.252	70.782	74.911	88.163	86.416	90.182	95.273	97.812	99.680	102.425
82	60.015	61.036	65.371	78.387	75.691	80.376	84.028	86.410	90.630	93.598
83	50.747	51.847	57.046	62.941	67.022	70.522	74.040	77.638	81.682	84.838
84	41.836	42.621	54.344	52.494	57.790	61.260	65.087	68.926	73.061	76.350
85	32.840	34.176	42.482	44.066	48.764	52.579	56.236	60.613	64.724	67.844
86	23.947	25.984	31.582	36.135	40.246	44.139	48.105	52.470	56.381	59.513
87	15.120	18.608	24.086	28.215	32.308	36.177	40.016	44.665	48.546	51.726
88	7.116	12.514	17.133	21.081	25.017	28.765	32.767	37.452	41.171	44.550
89	2.225	7.871	11.475	14.993	18.880	22.429	26.371	30.724	34.085	37.513
90	1.590	5.163	7.497	10.169	13.331	16.414	20.005	24.019	27.036	30.488
91	1.898	4.407	5.943	7.914	10.604	13.476	16.807	20.519	23.378	26.746
92	2.309	4.401	5.514	6.832	8.536	10.882	13.627	17.030	19.733	23.016
93	3.041	4.945	5.538	6.457	7.811	9.540	11.608	14.401	16.650	19.515
94	4.184	6.015	5.852	6.451	7.454	8.790	10.737	12.805	14.503	17.079
95	5.677	7.007	6.566	6.608	7.376	8.488	9.879	11.771	13.488	15.598
96	7.206	8.192	7.690	7.055	7.460	8.349	9.649	10.906	12.478	14.431
97	8.579	9.582	9.038	7.799	7.630	8.349	9.443	10.604	11.831	13.258
98	10.175	11.118	10.386	8.947	8.264	8.470	9.340	10.308	11.499	12.720
99	11.608	12.406	11.620	10.205	9.026	8.736	9.353	10.163	11.154	12.254
100	12.901	13.379	12.774	11.462	10.084	9.443	9.395	10.163	10.991	11.789
101	14.419	14.854	14.171	12.817	11.287	10.259	9.945	10.229	10.955	11.602
102	16.075	16.492	15.640	14.292	12.659	11.366	10.719	10.447	11.015	11.571
103	17.732	18.288	17.037	15.852	14.086	12.641	11.602	11.239	11.076	11.674
104	19.195	19.751	18.348	17.393	15.489	13.911	12.666	12.031	11.753	11.783
105	20.440	20.833	19.515	18.784	16.843	15.181	13.899	12.980	12.539	12.230
106	21.692	21.831	20.622	20.090	18.173	16.468	15.144	14.074	13.325	12.932
107	23.010	23.010	21.788	21.420	19.612	17.816	16.444	15.289	14.249	13.627
108	24.376	24.219	23.118	22.592	21.093	19.201	17.750	16.498	15.265	14.395
109	25.664	25.404	24.394	23.717	22.538	20.573	19.050	17.641	16.329	15.235

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110	26.982	26.649	25.603	24.829	23.916	21.958	20.283	18.711	17.375	16.232
111	28.263	27.876	26.830	25.887	25.216	23.312	21.401	19.739	18.354	17.224
112	29.478	29.049	28.021	26.915	26.474	24.563	22.465	20.712	19.298	18.209
113	30.567	30.119	29.049	27.828	27.272	25.627	23.463	21.655	20.223	19.038
114	31.365	30.917	29.859	28.590	27.931	26.570	24.436	22.592	21.099	19.793
115	31.981	31.540	30.512	29.182	28.511	27.423	25.410	23.499	21.927	20.537
116	32.543	32.175	31.086	29.799	29.073	28.239	26.335	24.340	22.671	21.256
117	33.051	32.646	31.576	30.403	29.623	28.977	27.133	25.138	23.409	21.964
118	33.396	32.985	31.927	30.857	30.155	29.400	27.834	25.924	24.110	22.653
119	33.710	33.257	32.290	31.280	30.651	29.799	28.487	26.679	24.853	23.324
120	33.994	33.535	32.531	31.558	31.068	30.210	29.122	27.411	25.621	23.971
121	34.121	33.656	32.731	31.770	31.407	30.663	29.702	28.112	26.347	24.587
122	34.206	33.710	32.852	31.987	31.697	31.093	30.119	28.729	27.024	25.210
123	34.327	33.831	33.033	32.193	31.951	31.540	30.548	29.309	27.604	25.827
124	34.569	34.061	33.281	32.453	32.181	31.921	30.947	29.847	28.142	26.450
125	34.853	34.327	33.529	32.676	32.392	32.290	31.286	30.234	28.662	27.090
126	35.016	34.478	33.680	32.749	32.556	32.695	31.606	30.548	29.206	27.737
127	35.034	34.502	33.777	32.828	32.592	32.797	31.939	30.923	29.769	28.390
128	35.022	34.514	33.831	32.912	32.610	32.797	32.290	31.322	30.307	29.049
129	34.980	34.502	33.837	32.973	32.616	32.816	32.658	31.764	30.802	29.726
130	34.944	34.466	33.886	33.003	32.592	32.858	33.069	32.217	31.322	30.403
131	34.907	34.454	33.880	33.063	32.580	32.906	33.487	32.701	31.860	30.935
132	34.859	34.418	33.916	33.160	32.616	32.961	33.595	33.227	32.392	31.437
133	34.871	34.436	34.019	33.287	32.670	33.027	33.716	33.783	32.912	31.939
134	34.907	34.520	34.158	33.456	32.791	33.124	33.819	34.345	33.426	32.404
135	35.022	34.635	34.303	33.620	32.979	33.233	33.940	34.811	33.910	32.846
136	35.143	34.762	34.424	33.807	33.215	33.348	34.037	34.823	34.375	33.281
137	35.282	34.907	34.593	34.019	33.468	33.444	34.079	34.786	34.823	33.704
138	35.457	35.083	34.786	34.242	33.728	33.541	34.073	34.696	35.258	34.109
139	35.627	35.264	34.956	34.490	33.940	33.535	34.013	34.563	35.107	34.496
140	35.784	35.427	35.143	34.672	34.115	33.589	33.904	34.387	34.895	34.889
141	35.899	35.554	35.240	34.780	34.212	33.656	33.765	34.176	34.659	35.143
142	35.893	35.578	35.258	34.847	34.273	33.698	33.565	33.940	34.399	34.901
143	35.875	35.566	35.264	34.877	34.291	33.704	33.311	33.680	34.133	34.684
144	35.814	35.530	35.234	34.871	34.260	33.668	33.039	33.420	33.898	34.478
145	35.723	35.457	35.155	34.792	34.182	33.595	32.991	33.154	33.668	34.254
146	35.584	35.318	35.010	34.641	34.091	33.529	32.961	32.900	33.432	34.013
147	35.373	35.125	34.829	34.496	34.007	33.468	32.955	32.683	33.208	33.765
148	35.191	34.956	34.678	34.381	33.934	33.444	32.973	32.568	32.985	33.523
149	35.034	34.811	34.557	34.279	33.892	33.438	33.021	32.616	32.749	33.257
150	34.901	34.690	34.454	34.206	33.880	33.456	33.063	32.683	32.495	32.985
151	34.798	34.593	34.375	34.146	33.873	33.481	33.100	32.743	32.386	32.701
152	34.684	34.502	34.303	34.103	33.886	33.511	33.142	32.785	32.435	32.398
153	34.593	34.430	34.248	34.067	33.892	33.535	33.166	32.816	32.489	32.163
154	34.514	34.363	34.206	34.037	33.861	33.535	33.190	32.846	32.525	32.193
155	34.454	34.309	34.158	33.988	33.801	33.535	33.196	32.870	32.543	32.211
156	34.375	34.236	34.085	33.922	33.753	33.529	33.208	32.882	32.550	32.211
157	34.285	34.158	34.013	33.861	33.704	33.517	33.196	32.870	32.543	32.199
158	34.200	34.079	33.946	33.801	33.632	33.456	33.166	32.852	32.519	32.157
159	34.091	33.976	33.849	33.704	33.547	33.378	33.130	32.803	32.471	32.102
160	33.952	33.855	33.740	33.607	33.456	33.287	33.057	32.743	32.392	32.048
161	33.843	33.747	33.632	33.499	33.348	33.160	32.961	32.646	32.314	31.981
162	33.698	33.607	33.493	33.360	33.202	33.027	32.809	32.537	32.229	31.897
163	33.523	33.438	33.329	33.202	33.045	32.858	32.646	32.435	32.126	31.788
164	33.329	33.251	33.148	33.015	32.858	32.676	32.489	32.271	31.993	31.667
165	33.106	33.027	32.924	32.797	32.652	32.489	32.302	32.078	31.836	31.522

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CANDELA TABULATION - (Cont.)

166	32.828	32.767	32.676	32.568	32.435	32.277	32.084	31.872	31.637	31.389
167	32.550	32.501	32.423	32.320	32.193	32.036	31.860	31.655	31.443	31.195
168	32.259	32.217	32.144	32.054	31.933	31.788	31.618	31.437	31.226	30.978
169	31.951	31.915	31.854	31.770	31.661	31.534	31.383	31.195	30.984	30.754
170	31.643	31.612	31.558	31.485	31.383	31.256	31.105	30.929	30.742	30.542
171	31.310	31.286	31.238	31.165	31.074	30.960	30.827	30.675	30.506	30.319
172	30.972	30.953	30.911	30.851	30.766	30.669	30.554	30.415	30.258	30.083
173	30.645	30.627	30.591	30.536	30.464	30.373	30.264	30.137	30.004	29.859
174	30.301	30.288	30.252	30.204	30.137	30.059	29.968	29.877	29.775	29.672
175	29.950	29.938	29.914	29.883	29.835	29.781	29.720	29.654	29.575	29.490
176	29.672	29.660	29.642	29.617	29.587	29.545	29.496	29.442	29.382	29.321
177	29.412	29.406	29.394	29.376	29.351	29.321	29.285	29.249	29.212	29.176
178	29.182	29.176	29.170	29.158	29.146	29.128	29.110	29.091	29.067	29.043
179	28.983	28.983	28.977	28.971	28.971	28.958	28.952	28.946	28.934	28.922
180	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801

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	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635
1	1696.752	1696.474	1696.184	1696.281	1696.383	1696.492	1696.607	1696.734	1696.861	1696.716
2	1699.787	1698.523	1697.175	1696.637	1696.099	1695.567	1695.682	1695.875	1696.087	1695.845
3	1699.932	1700.476	1701.008	1698.789	1696.468	1695.597	1694.926	1695.077	1695.307	1695.017
4	1695.652	1696.837	1699.461	1700.047	1699.037	1695.658	1694.642	1694.328	1694.533	1694.243
5	1702.913	1697.266	1694.104	1697.429	1698.735	1696.794	1693.379	1692.544	1692.726	1692.532
6	1712.144	1706.087	1696.655	1692.581	1696.226	1697.284	1692.442	1690.821	1690.918	1690.954
7	1713.468	1712.398	1705.591	1694.382	1690.870	1694.304	1691.843	1688.282	1688.077	1688.693
8	1716.424	1711.413	1709.847	1700.682	1689.642	1690.374	1691.069	1685.864	1685.235	1686.414
9	1725.765	1714.006	1707.773	1704.859	1691.849	1685.550	1689.413	1683.585	1682.394	1684.129
10	1736.472	1722.452	1708.716	1704.914	1697.048	1682.551	1685.937	1681.451	1679.552	1681.856
11	1733.987	1731.841	1715.119	1703.040	1698.886	1682.055	1680.689	1677.116	1674.994	1678.301
12	1719.381	1731.575	1722.960	1702.314	1697.411	1681.420	1675.193	1672.757	1670.442	1674.831
13	1701.988	1718.800	1726.672	1705.706	1692.375	1682.442	1669.571	1668.598	1665.883	1671.403
14	1675.586	1704.073	1720.723	1710.397	1689.316	1682.750	1664.021	1664.438	1661.325	1667.866
15	1644.772	1684.316	1707.930	1712.985	1687.714	1681.281	1659.227	1659.517	1655.443	1663.229
16	1615.270	1658.145	1694.159	1710.288	1689.564	1677.890	1655.914	1654.548	1649.554	1658.423
17	1596.794	1630.039	1675.224	1701.498	1691.771	1671.222	1652.341	1648.810	1642.342	1652.498
18	1583.500	1602.090	1651.180	1687.182	1692.411	1664.856	1649.850	1642.511	1635.123	1646.876
19	1570.526	1583.524	1623.812	1671.294	1689.497	1660.950	1648.599	1635.716	1627.911	1641.526
20	1566.947	1568.622	1595.446	1651.096	1681.838	1658.889	1647.499	1628.890	1620.698	1635.994
21	1560.218	1556.748	1572.545	1627.584	1670.895	1658.786	1642.650	1619.931	1611.032	1628.298
22	1567.745	1552.262	1556.428	1602.610	1654.898	1656.077	1634.785	1611.062	1601.371	1620.632
23	1582.956	1542.656	1541.803	1577.273	1638.055	1651.307	1626.786	1602.441	1591.704	1613.154
24	1589.830	1545.195	1532.384	1553.060	1620.735	1645.764	1618.038	1593.977	1582.037	1605.832
25	1580.259	1557.280	1526.708	1533.382	1599.134	1637.155	1607.525	1584.896	1571.935	1597.538
26	1553.774	1564.426	1517.319	1516.895	1576.475	1627.010	1597.163	1575.876	1561.832	1589.195
27	1515.825	1562.032	1512.706	1503.396	1553.030	1612.374	1587.563	1566.506	1551.289	1579.915
28	1476.946	1546.126	1520.088	1495.004	1529.380	1596.310	1581.221	1557.310	1540.751	1570.599
29	1447.020	1517.113	1527.028	1488.022	1505.342	1578.542	1575.254	1548.314	1530.208	1561.343
30	1415.547	1482.913	1526.363	1478.953	1483.191	1560.424	1569.655	1539.530	1519.664	1552.141
31	1384.467	1448.483	1514.483	1473.252	1464.722	1541.350	1561.893	1530.679	1508.583	1541.749
32	1364.994	1414.731	1490.960	1475.592	1450.938	1521.702	1552.824	1521.575	1497.495	1531.230
33	1354.589	1382.060	1461.542	1477.587	1443.006	1501.582	1543.593	1512.313	1486.414	1520.674
34	1361.898	1353.695	1430.613	1474.425	1435.256	1480.731	1533.436	1502.894	1475.326	1510.076
35	1375.827	1332.541	1399.847	1467.134	1424.682	1459.390	1520.692	1491.123	1461.427	1497.102
36	1378.058	1322.808	1368.440	1451.391	1413.310	1433.690	1506.412	1478.851	1447.528	1483.838

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37	1361.239	1326.471	1336.652	1427.638	1403.661	1408.244	1489.944	1463.966	1430.806	1468.198
38	1329.022	1335.455	1310.239	1398.638	1397.271	1384.074	1469.081	1447.843	1414.090	1451.706
39	1290.494	1337.976	1291.528	1368.113	1391.256	1363.525	1447.371	1431.520	1397.374	1434.905
40	1244.396	1324.760	1279.745	1333.774	1382.889	1347.075	1424.863	1415.003	1380.658	1417.796
41	1198.764	1297.803	1275.664	1298.250	1371.583	1335.026	1400.705	1396.237	1361.959	1397.628
42	1163.820	1263.295	1274.957	1263.125	1351.796	1320.837	1375.761	1377.345	1343.254	1377.012
43	1144.571	1220.008	1271.976	1235.285	1325.679	1302.585	1351.040	1358.585	1324.555	1356.300
44	1136.645	1170.078	1256.469	1217.409	1296.582	1284.358	1326.538	1339.953	1305.856	1335.491
45	1130.467	1130.007	1226.658	1204.078	1267.551	1267.061	1300.953	1319.748	1285.113	1313.129
46	1116.937	1102.228	1194.145	1194.605	1235.926	1250.145	1274.443	1299.369	1264.365	1290.796
47	1089.828	1088.764	1159.250	1186.854	1202.609	1233.574	1246.621	1277.260	1241.579	1267.079
48	1054.310	1077.767	1117.432	1172.665	1171.934	1215.571	1217.922	1254.934	1218.787	1243.393
49	1012.608	1063.602	1077.628	1152.684	1143.320	1196.763	1189.599	1232.613	1195.995	1219.917
50	977.870	1043.616	1042.800	1122.783	1118.303	1176.951	1162.986	1210.287	1173.209	1196.648
51	950.846	1011.919	1023.925	1090.010	1097.409	1153.670	1139.735	1185.022	1149.166	1171.819
52	927.117	978.087	1005.788	1056.475	1079.206	1122.855	1118.503	1159.486	1125.122	1146.965
53	902.481	942.751	986.672	1022.758	1060.525	1092.192	1097.651	1134.052	1101.085	1122.299
54	875.481	909.240	963.076	995.704	1041.161	1062.490	1076.824	1108.249	1077.042	1096.980
55	846.136	878.196	936.977	969.533	1019.530	1031.863	1028.326	1041.373	1007.529	1030.473
56	815.769	852.176	911.187	948.277	981.715	963.651	960.428	969.587	938.011	958.995
57	783.528	832.195	885.427	913.913	914.052	892.615	865.355	856.801	823.024	846.614
58	757.393	812.692	853.729	853.391	830.944	784.078	752.206	739.310	708.030	729.553
59	735.393	794.041	793.388	773.559	722.806	675.021	639.667	621.723	593.043	612.407
60	719.197	748.010	722.933	670.288	616.131	565.469	527.563	504.046	478.056	495.171
61	700.026	692.052	627.908	569.199	510.684	468.993	471.980	473.322	459.435	464.060
62	649.104	604.306	534.074	470.124	445.428	447.205	450.597	451.830	440.815	442.157
63	587.898	516.772	440.978	418.881	422.630	425.248	429.147	430.495	422.194	420.478
64	504.953	430.441	388.635	396.217	399.989	403.121	407.637	409.299	403.574	399.010
65	425.471	363.903	366.889	373.830	377.318	381.489	386.622	387.680	383.116	377.542
66	349.738	341.715	345.754	350.820	356.310	361.847	365.874	366.055	362.651	356.243
67	320.483	320.604	324.673	330.628	336.589	342.852	345.772	344.085	340.343	334.823
68	298.840	299.729	307.171	311.155	319.534	325.519	325.967	322.164	318.035	313.476
69	277.741	283.212	290.267	296.047	303.302	308.078	306.131	300.309	295.727	292.208
70	260.184	267.355	277.572	281.852	287.226	290.400	286.259	278.527	273.418	271.018
71	245.675	256.061	264.598	268.552	271.345	267.451	257.537	247.368	241.987	241.207
72	236.534	245.034	251.944	252.041	242.912	235.851	225.344	215.501	210.556	210.725
73	228.306	234.557	232.798	224.534	213.525	204.402	193.078	183.623	179.125	180.231
74	219.377	216.124	207.019	196.839	184.264	173.092	160.867	151.751	147.688	149.725
75	201.663	193.115	181.441	168.962	156.025	148.359	139.526	132.991	129.908	131.564
76	178.974	169.821	156.037	147.591	139.164	130.609	121.456	115.030	112.122	114.153
77	157.022	147.894	139.992	131.183	124.588	120.120	114.576	110.278	107.993	109.184
78	137.876	132.248	126.341	123.264	120.023	115.749	110.562	106.239	103.857	104.879
79	122.859	121.238	120.579	118.403	115.423	111.372	106.548	102.201	99.722	100.581
80	113.186	114.099	114.764	113.536	110.798	106.983	102.527	98.156	95.587	96.270
81	104.710	106.916	108.899	108.470	105.520	101.578	96.699	91.597	88.562	89.312
82	96.185	99.511	101.778	101.457	99.317	95.666	90.551	84.935	81.543	82.250
83	87.818	91.464	94.106	94.432	93.102	89.753	84.409	78.272	74.518	75.183
84	79.560	83.423	86.452	87.389	86.869	83.834	78.260	71.616	67.493	68.122
85	71.326	75.383	78.829	80.310	80.388	77.589	71.785	64.464	59.797	60.589
86	63.418	67.644	71.259	73.176	73.762	71.253	65.274	57.306	52.101	53.044
87	55.771	60.027	63.715	65.988	66.858	64.567	58.413	49.646	43.740	45.034
88	48.625	52.651	56.206	58.775	59.857	57.820	51.533	41.987	35.379	37.011
89	41.497	45.288	48.703	51.563	52.857	51.067	44.647	34.321	27.012	28.989
90	34.387	37.930	41.207	44.357	45.862	44.308	37.749	26.655	18.651	20.966
91	30.355	33.674	36.824	39.810	41.255	39.792	33.571	23.427	16.504	18.917
92	26.335	29.424	32.441	35.258	36.654	35.276	29.388	20.204	14.358	16.867

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CANDELA TABULATION - (Cont.)

93	22.308	25.180	28.070	30.718	32.054	30.754	25.198	16.976	12.206	14.818
94	19.558	21.958	24.424	26.661	27.737	26.389	21.093	13.772	10.060	12.780
95	17.429	19.237	21.426	23.427	24.340	23.064	18.336	12.055	9.111	11.650
96	16.124	17.810	19.509	20.924	21.371	19.987	15.719	10.368	8.162	10.537
97	14.818	16.378	17.865	18.995	19.177	17.859	14.413	10.157	8.409	10.326
98	13.748	14.951	16.220	17.061	16.976	15.743	13.113	9.945	8.657	10.114
99	13.204	14.135	14.866	15.114	14.769	13.627	11.831	9.739	8.899	9.909
100	12.659	13.488	14.165	14.364	13.621	12.194	10.773	9.558	9.147	9.733
101	12.176	12.841	13.464	13.717	13.210	12.115	10.967	9.969	9.631	10.114
102	11.982	12.387	12.762	13.071	12.811	12.037	11.160	10.380	10.120	10.501
103	12.001	12.176	12.466	12.569	12.418	11.964	11.360	10.797	10.604	10.882
104	12.170	12.315	12.297	12.430	12.351	12.019	11.595	11.215	11.094	11.275
105	12.339	12.551	12.593	12.502	12.369	12.224	11.952	11.692	11.608	11.735
106	12.708	12.792	12.889	12.865	12.738	12.557	12.339	12.176	12.127	12.206
107	13.337	13.155	13.198	13.228	13.143	13.022	12.847	12.720	12.678	12.738
108	13.959	13.687	13.584	13.591	13.554	13.488	13.349	13.270	13.222	13.276
109	14.600	14.207	14.044	13.965	13.953	13.953	13.857	13.814	13.772	13.814
110	15.350	14.727	14.497	14.334	14.268	14.280	14.280	14.334	14.322	14.316
111	16.166	15.398	14.945	14.703	14.576	14.528	14.473	14.467	14.413	14.389
112	17.037	16.099	15.519	15.066	14.884	14.769	14.661	14.606	14.503	14.461
113	17.901	16.916	16.112	15.592	15.241	15.005	14.854	14.739	14.588	14.534
114	18.735	17.720	16.831	16.142	15.725	15.368	15.096	14.890	14.679	14.624
115	19.437	18.518	17.544	16.837	16.269	15.779	15.471	15.217	14.963	14.890
116	20.120	19.165	18.252	17.526	16.928	16.323	15.900	15.555	15.247	15.174
117	20.791	19.739	18.893	18.215	17.581	16.903	16.450	16.063	15.725	15.646
118	21.426	20.301	19.461	18.844	18.221	17.484	17.000	16.571	16.196	16.112
119	22.024	20.863	20.023	19.376	18.747	18.064	17.550	17.073	16.674	16.577
120	22.574	21.438	20.585	19.896	19.171	18.518	18.034	17.569	17.151	17.030
121	23.118	22.012	21.160	20.410	19.594	18.947	18.415	17.913	17.484	17.357
122	23.669	22.604	21.728	20.906	20.017	19.376	18.802	18.264	17.810	17.689
123	24.273	23.197	22.296	21.395	20.464	19.799	19.189	18.608	18.143	18.016
124	24.974	23.789	22.858	21.867	20.924	20.247	19.588	18.959	18.475	18.354
125	25.676	24.442	23.409	22.326	21.407	20.700	20.017	19.352	18.850	18.729
126	26.377	25.138	23.941	22.786	21.897	21.178	20.458	19.745	19.231	19.110
127	27.078	25.821	24.551	23.239	22.387	21.649	20.924	20.186	19.660	19.533
128	27.773	26.492	25.150	23.838	22.877	22.121	21.389	20.622	20.090	19.950
129	28.445	27.139	25.736	24.491	23.511	22.586	21.843	21.057	20.513	20.374
130	29.110	27.761	26.323	25.150	24.182	23.239	22.393	21.516	20.942	20.821
131	29.744	28.366	26.921	25.821	24.853	23.898	23.058	22.187	21.631	21.510
132	30.373	28.952	27.532	26.492	25.525	24.563	23.729	22.852	22.320	22.193
133	30.869	29.527	28.166	27.169	26.202	25.228	24.394	23.517	23.010	22.877
134	31.310	30.095	28.819	27.846	26.879	25.911	25.065	24.188	23.699	23.566
135	31.739	30.585	29.478	28.511	27.562	26.601	25.754	24.884	24.406	24.261
136	32.163	31.044	30.131	29.176	28.239	27.308	26.450	25.579	25.119	24.968
137	32.580	31.510	30.663	29.847	28.922	28.015	27.163	26.298	25.845	25.682
138	32.997	31.993	31.201	30.421	29.599	28.723	27.870	27.024	26.576	26.401
139	33.450	32.507	31.739	30.966	30.174	29.418	28.584	27.743	27.302	27.121
140	33.910	33.027	32.277	31.510	30.718	29.980	29.218	28.451	28.033	27.828
141	34.375	33.553	32.809	32.060	31.262	30.536	29.756	28.989	28.590	28.390
142	34.847	34.079	33.335	32.610	31.812	31.086	30.295	29.521	29.146	28.946
143	35.330	34.605	33.861	33.148	32.362	31.631	30.827	30.059	29.702	29.509
144	35.101	35.131	34.399	33.680	32.924	32.169	31.359	30.597	30.258	30.065
145	34.871	35.512	34.938	34.200	33.474	32.707	31.884	31.141	30.814	30.627
146	34.623	35.216	35.476	34.738	34.025	33.239	32.410	31.679	31.371	31.189
147	34.357	34.901	35.403	35.270	34.575	33.765	32.930	32.217	31.927	31.745
148	34.073	34.575	35.040	35.337	35.125	34.285	33.456	32.761	32.477	32.308

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149	33.783	34.248	34.653	34.925	35.083	34.805	33.976	33.299	33.033	32.864
150	33.468	33.898	34.242	34.490	34.593	34.418	34.091	33.740	33.589	33.317
151	33.142	33.541	33.813	34.043	34.091	33.886	33.553	33.215	33.051	32.785
152	32.809	33.160	33.396	33.589	33.577	33.348	33.009	32.683	32.513	32.247
153	32.453	32.761	32.967	33.118	33.057	32.809	32.471	32.157	31.975	31.709
154	32.084	32.332	32.531	32.640	32.537	32.271	31.927	31.625	31.437	31.177
155	31.854	31.897	32.078	32.138	32.005	31.727	31.389	31.093	30.899	30.639
156	31.836	31.461	31.612	31.625	31.467	31.183	30.845	30.554	30.361	30.101
157	31.806	31.431	31.129	31.099	30.911	30.627	30.295	30.022	29.823	29.563
158	31.776	31.401	30.996	30.554	30.343	30.065	29.750	29.484	29.285	29.031
159	31.739	31.365	30.941	30.440	29.865	29.503	29.200	28.952	28.747	28.493
160	31.691	31.304	30.875	30.379	29.823	29.297	28.807	28.451	28.209	28.003
161	31.618	31.232	30.802	30.313	29.787	29.285	28.819	28.493	28.257	28.058
162	31.534	31.147	30.724	30.234	29.744	29.267	28.831	28.535	28.306	28.112
163	31.431	31.056	30.627	30.161	29.690	29.255	28.844	28.578	28.354	28.172
164	31.322	30.953	30.524	30.089	29.642	29.237	28.862	28.614	28.402	28.227
165	31.201	30.827	30.421	30.010	29.593	29.218	28.880	28.656	28.451	28.287
166	31.062	30.694	30.319	29.926	29.551	29.200	28.898	28.692	28.505	28.348
167	30.899	30.561	30.216	29.847	29.509	29.182	28.922	28.735	28.553	28.402
168	30.706	30.428	30.095	29.769	29.466	29.164	28.946	28.771	28.602	28.463
169	30.518	30.246	29.962	29.696	29.424	29.158	28.971	28.807	28.650	28.523
170	30.319	30.065	29.817	29.587	29.357	29.146	28.989	28.844	28.698	28.578
171	30.107	29.889	29.684	29.484	29.273	29.110	28.977	28.838	28.711	28.602
172	29.902	29.732	29.563	29.382	29.212	29.079	28.958	28.838	28.723	28.620
173	29.726	29.581	29.436	29.285	29.158	29.049	28.940	28.831	28.729	28.638
174	29.557	29.442	29.315	29.206	29.110	29.013	28.922	28.831	28.741	28.656
175	29.400	29.309	29.218	29.134	29.055	28.977	28.904	28.825	28.753	28.680
176	29.255	29.194	29.128	29.067	29.007	28.940	28.886	28.825	28.759	28.705
177	29.134	29.091	29.043	29.001	28.952	28.910	28.868	28.819	28.771	28.729
178	29.019	28.989	28.964	28.934	28.904	28.874	28.844	28.813	28.783	28.753
179	28.910	28.898	28.886	28.874	28.856	28.838	28.825	28.807	28.795	28.777
180	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801

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	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635
1	1696.577	1696.444	1696.323	1696.202	1696.099	1696.232	1696.353	1696.474	1696.583	1696.686
2	1695.609	1695.452	1695.821	1696.172	1696.510	1698.070	1699.545	1700.918	1702.483	1704.623
3	1694.818	1695.519	1696.401	1698.965	1701.437	1705.857	1710.022	1714.363	1718.649	1722.567
4	1694.763	1696.135	1699.678	1704.896	1711.116	1717.918	1723.824	1727.784	1731.412	1734.440
5	1693.886	1697.520	1703.989	1712.507	1721.503	1727.180	1732.463	1736.822	1737.705	1736.913
6	1693.294	1699.086	1709.133	1719.707	1726.587	1733.763	1736.230	1733.280	1727.337	1720.118
7	1692.442	1701.323	1713.716	1723.002	1732.234	1734.646	1727.355	1717.319	1706.679	1696.571
8	1691.287	1703.058	1715.826	1726.267	1731.956	1723.190	1710.433	1696.716	1683.198	1670.569
9	1690.428	1704.980	1717.265	1727.349	1722.676	1707.447	1690.858	1674.015	1658.242	1647.879
10	1690.320	1706.195	1719.405	1723.788	1709.109	1690.035	1669.831	1651.084	1641.556	1637.421
11	1689.135	1705.470	1719.816	1714.895	1694.648	1671.234	1648.665	1637.632	1632.360	1618.873
12	1687.919	1704.460	1716.539	1700.065	1676.820	1651.857	1635.395	1628.866	1610.240	1590.350
13	1686.656	1704.212	1706.594	1685.036	1657.141	1634.229	1627.191	1607.719	1583.379	1572.352
14	1685.096	1703.197	1694.606	1667.606	1637.209	1623.576	1608.541	1582.490	1568.942	1583.343
15	1681.989	1699.557	1682.170	1650.008	1622.875	1611.745	1582.351	1564.045	1578.101	1608.432
16	1678.077	1693.185	1669.100	1632.493	1612.761	1589.769	1561.802	1568.374	1602.193	1613.480
17	1673.192	1683.113	1653.955	1616.370	1600.947	1566.185	1555.158	1590.090	1606.890	1601.395
18	1668.447	1672.854	1637.832	1604.164	1581.892	1549.294	1568.573	1598.644	1594.745	1577.793
19	1664.057	1661.990	1621.889	1593.475	1559.596	1543.678	1584.739	1590.900	1573.936	1548.236

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CANDELA TABULATION - (Cont.)

20	1659.427	1651.180	1606.364	1581.553	1541.513	1552.643	1586.087	1574.456	1545.939	1514.798
21	1653.079	1639.017	1591.716	1565.593	1529.011	1565.810	1575.453	1550.968	1515.287	1487.514
22	1645.195	1623.504	1577.575	1545.739	1525.498	1570.109	1559.348	1524.096	1484.908	1456.869
23	1636.701	1605.990	1563.404	1523.376	1532.040	1564.208	1537.880	1492.937	1458.580	1426.840
24	1626.925	1588.602	1548.750	1508.474	1541.308	1549.554	1511.920	1465.048	1427.693	1408.419
25	1615.100	1571.451	1530.129	1498.722	1543.145	1530.861	1484.908	1438.478	1405.590	1414.562
26	1603.130	1554.674	1509.465	1496.776	1534.784	1505.633	1453.689	1409.713	1397.803	1419.029
27	1590.894	1540.135	1488.233	1501.092	1519.453	1477.962	1425.087	1391.649	1403.933	1411.533
28	1577.962	1525.940	1472.914	1506.213	1502.138	1447.014	1395.161	1383.058	1403.359	1387.314
29	1565.158	1511.630	1460.774	1503.674	1481.214	1417.621	1373.300	1386.510	1393.196	1362.225
30	1552.468	1496.885	1450.902	1494.992	1457.606	1389.001	1361.427	1383.524	1366.408	1340.007
31	1538.218	1480.428	1443.714	1481.692	1431.495	1361.493	1361.197	1370.441	1341.779	1314.664
32	1522.675	1459.668	1439.856	1466.082	1402.289	1342.885	1361.215	1345.073	1317.221	1279.993
33	1506.636	1438.448	1440.008	1446.791	1374.836	1331.072	1355.333	1322.517	1285.131	1247.238
34	1489.690	1418.364	1439.119	1424.337	1346.464	1327.257	1336.682	1300.088	1251.796	1233.321
35	1471.535	1400.264	1433.648	1399.550	1320.661	1326.556	1310.209	1269.806	1223.339	1224.143
36	1453.145	1385.434	1423.781	1372.333	1302.506	1319.349	1290.977	1236.047	1213.068	1200.015
37	1434.349	1371.692	1408.274	1342.855	1290.832	1304.792	1271.601	1209.809	1199.574	1172.526
38	1415.499	1357.298	1389.757	1311.617	1284.793	1282.828	1236.579	1192.295	1178.487	1146.844
39	1396.207	1344.136	1367.648	1280.313	1278.106	1260.635	1202.990	1182.429	1152.817	1110.426
40	1376.486	1332.813	1343.653	1255.181	1268.923	1238.713	1177.568	1161.747	1131.597	1084.357
41	1352.721	1323.134	1319.138	1235.551	1252.159	1207.439	1160.447	1139.342	1095.825	1064.201
42	1325.425	1310.825	1292.211	1219.307	1229.355	1171.015	1141.754	1114.392	1066.051	1050.109
43	1297.845	1296.957	1259.377	1206.496	1203.087	1142.328	1122.529	1083.462	1046.711	1027.432
44	1269.993	1282.036	1224.669	1195.348	1183.898	1119.633	1100.432	1051.965	1027.492	990.850
45	1242.673	1265.906	1189.581	1183.112	1153.767	1099.604	1076.068	1026.355	1002.518	961.238
46	1217.143	1245.496	1159.727	1166.613	1118.871	1080.065	1045.587	1005.698	971.631	924.650
47	1192.736	1223.756	1134.143	1145.811	1084.913	1058.409	1011.121	982.706	941.360	901.864
48	1169.600	1196.140	1113.557	1117.058	1057.242	1034.305	982.827	954.504	907.946	882.144
49	1148.192	1166.710	1095.167	1087.223	1032.824	1007.632	959.346	924.959	880.312	857.278
50	1129.010	1137.165	1078.148	1056.384	1009.138	976.534	934.136	895.686	857.490	827.872
51	1110.293	1107.578	1062.260	1024.046	987.101	941.917	904.253	864.176	832.437	796.701
52	1091.340	1075.645	1046.747	991.460	963.578	912.257	877.005	833.839	805.939	765.730
53	1072.066	1044.565	1027.190	963.391	937.908	885.021	847.629	807.118	774.363	741.269
54	1052.660	1014.095	1003.564	943.857	909.760	858.143	819.729	780.481	746.317	712.160
55	1006.985	982.966	975.863	924.463	884.036	829.843	788.304	749.413	715.684	682.742
56	942.437	916.712	933.169	905.570	857.653	806.338	756.299	722.878	685.867	658.027
57	850.918	848.929	863.185	869.521	832.673	786.442	725.835	695.824	655.319	625.605
58	740.858	746.021	779.907	807.638	802.644	767.005	705.612	662.519	628.235	594.101
59	629.879	642.605	674.647	729.118	742.938	747.109	689.271	630.151	601.283	568.740
60	518.416	538.699	571.769	628.216	674.429	697.626	673.498	610.315	568.492	534.612
61	462.204	447.441	470.136	528.228	582.445	639.232	650.410	594.530	540.658	500.842
62	439.491	428.899	409.837	429.328	491.797	551.903	596.175	576.375	519.124	476.018
63	416.578	409.335	392.632	380.456	402.051	467.966	535.682	553.444	500.660	445.228
64	393.466	388.793	374.767	361.799	353.287	386.858	455.506	509.729	484.150	407.473
65	371.043	367.718	356.285	343.469	335.833	324.135	375.831	451.461	467.530	390.564
66	349.375	347.290	338.028	326.106	318.428	305.472	296.851	381.127	424.776	386.574
67	328.863	327.164	320.066	310.200	301.784	288.006	274.887	312.491	370.734	375.063
68	309.021	308.114	302.891	294.505	286.229	271.187	261.502	253.407	309.287	348.063
69	289.439	289.252	286.380	279.500	271.006	256.720	247.186	235.633	252.990	310.955
70	270.105	271.042	269.972	264.223	256.932	243.704	233.257	219.504	212.817	260.045
71	243.644	249.339	253.643	248.776	243.281	233.348	220.048	205.115	197.625	211.288
72	214.310	221.076	227.810	231.129	230.507	223.198	210.514	196.960	183.121	173.285
73	184.947	192.710	200.496	206.228	212.974	213.579	202.449	190.382	171.308	158.540
74	155.553	164.247	173.303	181.277	189.880	196.905	195.339	183.744	160.450	145.010
75	135.724	141.449	147.144	156.255	166.593	174.954	180.769	177.837	156.563	135.736

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76	118.766	124.787	131.153	136.866	143.099	153.147	160.753	166.441	153.782	130.246
77	111.723	114.594	117.254	121.777	128.003	133.251	140.899	146.938	148.226	127.713
78	107.231	109.897	112.224	113.954	115.090	119.304	123.354	127.683	130.658	124.896
79	102.739	105.193	107.195	108.778	109.510	109.443	109.589	111.251	113.488	112.738
80	98.235	100.484	102.171	103.597	103.906	102.896	100.998	97.969	98.652	98.694
81	91.790	94.680	96.742	98.320	98.265	96.319	93.604	90.345	86.960	85.920
82	85.001	88.332	90.720	91.941	91.694	89.547	86.216	82.746	79.312	75.782
83	78.212	81.990	84.699	85.557	84.687	82.172	78.744	75.177	71.719	68.285
84	71.429	75.649	78.683	79.155	77.668	74.802	71.259	67.662	64.162	60.837
85	64.627	69.440	72.608	72.729	70.691	67.445	63.799	60.178	56.641	53.298
86	57.826	63.267	66.502	66.272	63.860	60.432	56.641	52.845	49.151	45.759
87	51.013	57.228	60.317	59.791	57.131	53.564	49.713	45.941	42.235	38.583
88	44.193	51.206	54.108	53.298	50.511	46.974	43.238	39.496	35.784	32.054
89	37.374	45.185	47.899	46.811	43.903	40.397	36.775	33.160	29.629	26.069
90	30.554	39.157	41.684	40.324	37.301	33.825	30.325	26.842	23.487	20.102
91	27.683	35.306	37.440	36.092	33.257	29.998	26.703	23.415	20.223	17.037
92	24.805	31.455	33.202	31.866	29.218	26.177	23.088	19.993	16.964	13.983
93	21.927	27.604	28.958	27.640	25.180	22.357	19.473	16.795	14.256	11.789
94	19.104	23.892	25.011	23.910	21.861	19.503	17.091	14.673	12.448	10.628
95	17.103	21.105	22.000	21.002	19.171	17.127	15.320	13.512	11.735	10.018
96	15.181	18.530	19.425	18.832	17.544	15.979	14.340	12.678	11.021	9.516
97	14.056	16.807	17.635	17.236	16.184	14.824	13.355	11.837	10.592	9.389
98	12.938	15.090	15.839	15.640	14.818	13.669	12.569	11.511	10.398	9.268
99	11.825	13.367	14.044	14.032	13.742	13.089	12.212	11.245	10.205	9.250
100	10.912	12.206	13.149	13.530	13.294	12.672	11.861	10.979	10.157	9.328
101	11.094	12.146	12.877	13.125	12.853	12.248	11.553	10.912	10.211	9.455
102	11.275	12.091	12.605	12.720	12.406	11.976	11.469	10.967	10.344	9.709
103	11.462	12.037	12.345	12.418	12.254	11.886	11.553	11.124	10.477	10.423
104	11.686	12.103	12.351	12.387	12.200	12.049	11.747	11.287	11.045	11.136
105	12.025	12.303	12.424	12.520	12.490	12.291	11.940	11.680	11.692	11.982
106	12.406	12.629	12.792	12.859	12.780	12.533	12.267	12.236	12.345	12.950
107	12.901	13.077	13.191	13.198	13.083	12.841	12.750	12.780	13.143	14.014
108	13.397	13.524	13.591	13.542	13.391	13.258	13.228	13.415	14.026	15.066
109	13.899	13.977	13.965	13.826	13.711	13.669	13.724	14.123	14.981	16.045
110	14.280	14.219	14.135	14.080	14.026	14.080	14.352	14.981	15.942	16.988
111	14.358	14.334	14.304	14.328	14.334	14.636	15.078	15.827	16.837	17.907
112	14.437	14.449	14.461	14.576	14.806	15.229	15.894	16.656	17.641	18.814
113	14.515	14.564	14.679	14.999	15.307	15.924	16.710	17.429	18.415	19.684
114	14.661	14.818	15.041	15.447	15.979	16.613	17.490	18.185	19.171	20.470
115	14.945	15.126	15.471	16.039	16.650	17.296	18.088	18.935	19.920	21.226
116	15.289	15.586	16.027	16.625	17.315	17.895	18.681	19.648	20.658	21.988
117	15.773	16.087	16.583	17.206	17.901	18.463	19.261	20.313	21.395	22.840
118	16.257	16.583	17.133	17.714	18.385	19.019	19.830	20.918	22.127	23.699
119	16.734	17.079	17.599	18.131	18.856	19.570	20.398	21.504	22.864	24.551
120	17.157	17.442	17.974	18.542	19.328	20.108	20.954	22.072	23.596	25.301
121	17.490	17.786	18.342	18.959	19.787	20.640	21.516	22.665	24.315	25.996
122	17.816	18.137	18.705	19.388	20.235	21.172	22.072	23.348	24.974	26.601
123	18.143	18.481	19.080	19.824	20.688	21.692	22.665	24.025	25.591	27.175
124	18.493	18.868	19.455	20.265	21.141	22.193	23.348	24.702	26.183	27.707
125	18.868	19.255	19.842	20.700	21.595	22.744	24.019	25.355	26.758	28.118
126	19.267	19.684	20.241	21.123	22.066	23.342	24.678	26.014	27.338	28.511
127	19.703	20.114	20.646	21.528	22.689	23.928	25.319	26.643	27.925	28.922
128	20.132	20.543	21.057	22.072	23.300	24.521	25.930	27.266	28.469	29.345
129	20.567	20.966	21.649	22.659	23.898	25.132	26.528	27.876	28.952	29.781
130	21.111	21.619	22.308	23.251	24.497	25.748	27.108	28.481	29.412	30.240
131	21.794	22.278	22.973	23.850	25.077	26.359	27.695	28.940	29.859	30.718

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132	22.478	22.931	23.638	24.467	25.651	26.951	28.287	29.376	30.325	31.201
133	23.155	23.590	24.309	25.089	26.226	27.532	28.789	29.811	30.784	31.691
134	23.838	24.267	24.980	25.736	26.806	28.100	29.212	30.246	31.250	32.163
135	24.533	24.944	25.651	26.395	27.387	28.553	29.623	30.669	31.691	32.507
136	25.228	25.639	26.316	27.054	27.973	28.971	30.028	31.080	32.114	32.392
137	25.936	26.335	26.982	27.719	28.463	29.394	30.428	31.485	32.543	32.253
138	26.643	27.036	27.647	28.287	28.958	29.829	30.827	31.884	32.973	32.090
139	27.350	27.737	28.221	28.825	29.460	30.270	31.232	32.277	32.743	31.872
140	27.997	28.306	28.759	29.363	29.974	30.724	31.637	32.652	32.441	31.637
141	28.547	28.868	29.309	29.895	30.500	31.195	32.054	32.858	32.120	31.365
142	29.104	29.430	29.859	30.434	31.032	31.679	32.477	32.495	31.782	31.056
143	29.660	29.992	30.421	30.960	31.564	32.169	32.906	32.138	31.437	30.724
144	30.210	30.554	30.984	31.485	32.090	32.670	32.562	31.794	31.080	30.379
145	30.766	31.111	31.540	32.011	32.622	33.027	32.217	31.449	30.712	30.022
146	31.316	31.667	32.096	32.537	33.142	32.683	31.878	31.111	30.343	29.672
147	31.866	32.223	32.652	33.075	33.003	32.320	31.540	30.772	30.010	29.309
148	32.417	32.773	33.202	33.130	32.568	31.945	31.201	30.440	29.678	29.067
149	32.973	33.317	33.160	32.689	32.132	31.546	30.857	30.107	29.363	29.067
150	33.106	32.924	32.658	32.241	31.691	31.129	30.494	29.781	29.049	29.091
151	32.568	32.386	32.144	31.782	31.244	30.706	30.119	29.454	28.922	29.134
152	32.024	31.842	31.625	31.304	30.808	30.270	29.726	29.116	28.971	29.170
153	31.485	31.304	31.099	30.814	30.367	29.829	29.309	28.844	29.025	29.212
154	30.941	30.760	30.573	30.313	29.926	29.400	28.892	28.856	29.067	29.249
155	30.403	30.216	30.035	29.805	29.466	28.983	28.638	28.856	29.085	29.279
156	29.865	29.678	29.496	29.291	29.001	28.565	28.650	28.856	29.079	29.297
157	29.321	29.134	28.958	28.765	28.511	28.578	28.686	28.862	29.061	29.285
158	28.783	28.596	28.420	28.239	28.414	28.602	28.735	28.856	29.049	29.255
159	28.245	28.058	27.979	28.172	28.414	28.620	28.771	28.880	29.037	29.224
160	27.876	27.894	28.003	28.172	28.402	28.626	28.789	28.916	29.037	29.200
161	27.937	27.937	28.021	28.172	28.390	28.620	28.795	28.946	29.055	29.188
162	27.991	27.979	28.039	28.172	28.378	28.596	28.801	28.946	29.079	29.194
163	28.052	28.027	28.070	28.185	28.354	28.572	28.783	28.940	29.085	29.206
164	28.118	28.082	28.100	28.197	28.330	28.541	28.741	28.928	29.061	29.176
165	28.179	28.130	28.142	28.209	28.318	28.499	28.692	28.892	29.037	29.116
166	28.245	28.179	28.191	28.227	28.324	28.451	28.644	28.825	28.964	29.061
167	28.306	28.239	28.233	28.257	28.330	28.426	28.584	28.723	28.850	28.971
168	28.366	28.293	28.287	28.299	28.336	28.414	28.493	28.614	28.735	28.844
169	28.426	28.360	28.342	28.342	28.342	28.384	28.445	28.517	28.620	28.717
170	28.481	28.420	28.366	28.354	28.354	28.360	28.402	28.451	28.511	28.590
171	28.505	28.445	28.390	28.366	28.360	28.360	28.372	28.408	28.451	28.493
172	28.535	28.469	28.420	28.384	28.372	28.372	28.372	28.384	28.402	28.439
173	28.565	28.499	28.457	28.414	28.384	28.384	28.378	28.384	28.384	28.396
174	28.596	28.535	28.487	28.457	28.420	28.396	28.390	28.390	28.390	28.396
175	28.626	28.572	28.529	28.493	28.469	28.439	28.420	28.402	28.402	28.402
176	28.656	28.614	28.572	28.541	28.511	28.487	28.469	28.451	28.439	28.426
177	28.686	28.656	28.626	28.596	28.565	28.547	28.523	28.511	28.499	28.487
178	28.723	28.698	28.674	28.656	28.638	28.620	28.602	28.590	28.578	28.565
179	28.765	28.753	28.735	28.723	28.711	28.705	28.692	28.686	28.680	28.674
180	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801

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	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635
1	1696.770	1696.855	1696.921	1696.982	1697.030	1697.073	1697.109	1696.982	1696.843	1696.698
2	1706.516	1708.148	1709.508	1710.584	1711.376	1711.872	1712.066	1711.769	1711.171	1710.264

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3	1725.251	1727.307	1729.078	1730.535	1731.665	1732.451	1732.875	1732.482	1731.726	1730.620
4	1737.070	1738.074	1738.666	1739.210	1739.682	1740.075	1740.371	1739.561	1738.703	1737.838
5	1733.630	1730.704	1727.065	1724.278	1722.391	1721.412	1721.370	1720.548	1720.735	1721.974
6	1712.912	1706.407	1701.002	1696.867	1694.050	1692.562	1692.399	1691.595	1692.085	1693.820
7	1687.267	1678.966	1672.201	1666.875	1663.163	1661.137	1660.835	1659.940	1660.787	1663.344
8	1659.517	1652.341	1647.045	1645.322	1644.198	1643.678	1643.756	1642.541	1641.888	1641.761
9	1643.037	1640.220	1637.856	1632.844	1628.999	1627.125	1627.149	1625.747	1626.188	1628.503
10	1630.849	1620.197	1610.058	1602.253	1596.722	1593.644	1593.179	1591.746	1593.100	1597.266
11	1602.695	1589.449	1581.934	1579.056	1580.241	1581.070	1581.608	1581.396	1580.078	1576.771
12	1577.902	1577.672	1588.228	1599.194	1607.525	1612.416	1613.933	1612.368	1607.888	1600.857
13	1582.454	1603.281	1617.682	1624.701	1626.285	1627.633	1628.606	1626.248	1623.951	1622.258
14	1610.125	1621.629	1623.232	1621.085	1616.460	1614.381	1614.641	1611.932	1611.848	1614.864
15	1618.256	1615.415	1606.177	1596.528	1588.766	1584.884	1584.709	1582.381	1583.506	1588.107
16	1606.340	1592.490	1577.309	1565.859	1556.385	1550.926	1550.025	1547.329	1549.530	1556.488
17	1583.071	1563.072	1545.298	1529.942	1522.560	1519.072	1518.618	1516.237	1517.083	1521.375
18	1554.421	1529.803	1514.562	1504.375	1495.216	1490.259	1490.428	1487.822	1489.745	1495.428
19	1521.750	1503.220	1486.142	1468.899	1457.697	1451.682	1450.745	1448.163	1451.700	1461.022
20	1495.754	1472.956	1449.644	1436.670	1432.850	1433.134	1433.502	1432.680	1429.645	1427.753
21	1463.724	1438.798	1427.602	1434.851	1443.907	1448.695	1451.071	1448.514	1443.768	1434.585
22	1431.078	1423.074	1436.640	1448.139	1452.546	1452.776	1453.761	1450.938	1449.136	1445.551
23	1417.276	1433.345	1445.170	1445.576	1441.186	1435.631	1435.745	1431.967	1434.579	1438.484
24	1425.849	1438.309	1436.314	1420.964	1409.169	1404.490	1404.490	1401.116	1404.206	1411.357
25	1429.428	1425.752	1405.699	1391.969	1380.749	1375.682	1374.806	1372.889	1373.137	1380.458
26	1416.194	1394.460	1380.531	1366.777	1361.796	1355.224	1355.351	1351.397	1353.791	1358.041
27	1386.613	1369.770	1358.942	1343.072	1326.906	1316.599	1315.118	1310.910	1317.088	1331.979
28	1363.700	1346.361	1328.871	1304.278	1287.417	1286.999	1288.027	1286.957	1286.002	1289.454
29	1340.400	1314.126	1290.240	1277.792	1283.366	1285.010	1287.296	1283.021	1282.731	1277.786
30	1309.537	1276.383	1270.392	1275.464	1270.271	1265.949	1266.444	1261.880	1264.806	1269.473
31	1274.014	1262.775	1264.274	1256.536	1241.089	1228.333	1227.075	1223.200	1228.962	1243.925
32	1251.856	1253.622	1242.026	1220.945	1205.958	1199.453	1197.984	1193.287	1194.732	1205.335
33	1246.754	1232.783	1206.067	1193.946	1179.890	1172.339	1171.940	1167.732	1169.733	1176.135
34	1229.119	1196.261	1180.585	1166.081	1149.571	1139.880	1137.474	1136.349	1138.622	1151.995
35	1200.239	1174.261	1149.776	1135.061	1125.425	1126.694	1128.024	1126.900	1123.454	1122.517
36	1173.348	1142.340	1120.739	1116.520	1119.240	1117.112	1118.279	1114.990	1116.604	1115.468
37	1145.345	1113.860	1106.786	1106.804	1098.286	1085.445	1085.016	1079.212	1088.389	1099.882
38	1111.985	1096.128	1092.633	1079.774	1052.593	1032.975	1029.251	1023.309	1037.631	1059.830
39	1088.522	1084.992	1061.650	1030.364	1004.888	988.552	984.925	982.023	984.526	1003.219
40	1073.148	1060.211	1015.528	986.557	973.015	969.636	968.221	967.278	964.739	965.259
41	1052.696	1014.379	975.712	962.194	959.872	961.535	964.557	963.638	960.616	955.477
42	1013.400	978.716	953.071	949.413	951.964	947.424	948.875	943.410	950.344	950.163
43	978.692	945.822	938.894	936.083	926.772	910.479	908.478	903.412	913.690	924.064
44	940.405	930.091	924.058	904.579	885.402	864.612	862.459	857.454	870.651	884.828
45	922.299	912.124	895.813	862.695	841.832	823.792	819.064	818.490	828.634	838.023
46	904.694	884.780	857.599	820.817	809.222	814.185	815.733	814.094	806.622	805.473
47	885.130	851.384	815.648	803.043	807.033	800.740	800.945	800.879	807.843	802.777
48	855.906	808.732	793.866	790.148	781.285	766.661	763.184	758.826	772.362	784.979
49	822.480	785.886	779.078	760.252	739.758	720.400	715.902	711.519	723.356	740.060
50	788.455	773.093	749.352	721.264	697.414	688.975	689.894	686.563	689.936	697.862
51	765.548	743.125	709.578	683.576	676.817	671.485	669.768	666.848	668.909	673.849
52	740.864	713.381	678.208	665.681	652.592	641.964	641.347	636.251	642.158	652.169
53	713.647	677.409	655.651	639.443	615.865	598.327	592.052	589.107	599.089	624.637
54	679.713	655.446	628.053	603.188	578.927	573.081	574.139	570.396	570.227	576.285
55	650.253	630.260	590.431	569.973	556.921	547.224	545.041	542.097	549.285	559.405
56	623.652	594.603	560.246	543.953	523.265	507.558	503.762	501.537	508.731	531.312
57	596.151	557.241	536.003	512.280	488.690	483.231	485.045	482.016	483.660	494.113
58	562.108	532.787	509.064	482.783	472.319	465.330	464.393	461.981	467.137	473.770

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59	524.891	501.120	477.983	454.363	435.682	416.911	403.483	402.988	413.404	436.692
60	504.856	472.512	456.153	422.454	398.272	400.430	405.883	401.736	399.360	403.163
61	470.862	443.783	420.369	394.518	383.720	370.081	358.964	356.999	370.710	387.027
62	439.062	420.465	386.132	365.970	341.909	325.634	322.605	319.963	322.962	341.564
63	417.098	387.608	358.988	335.670	320.169	312.684	309.946	309.801	317.648	317.630
64	392.148	351.697	330.888	307.497	287.039	268.751	268.914	265.039	271.659	295.201
65	360.167	322.799	296.132	280.818	262.573	250.645	242.477	245.010	256.460	268.280
66	330.338	299.886	267.723	252.621	230.742	219.455	223.403	218.827	220.991	240.125
67	298.199	269.900	244.109	224.933	208.936	196.887	192.927	194.106	200.484	213.682
68	284.603	238.632	213.851	198.755	188.544	185.413	183.629	182.728	184.651	189.814
69	278.212	216.372	191.089	180.836	175.419	171.737	171.731	170.873	172.547	174.887
70	261.327	196.125	176.665	167.070	163.932	161.490	161.297	160.662	162.469	163.358
71	235.186	183.303	159.682	155.862	154.380	151.551	152.192	151.152	153.105	153.631
72	207.630	177.124	150.124	146.539	145.137	141.854	142.428	141.558	144.018	144.647
73	171.798	175.909	141.225	137.658	135.536	132.229	132.973	132.332	134.623	135.742
74	139.647	160.698	132.217	127.949	125.126	123.125	123.784	123.433	124.769	126.698
75	130.585	139.067	124.878	119.002	115.326	114.262	114.715	114.776	115.483	117.853
76	121.656	121.226	117.738	110.254	106.167	105.278	105.447	106.046	106.771	109.256
77	114.268	110.223	107.775	101.953	97.437	96.488	96.832	97.661	98.549	101.113
78	108.331	101.475	98.574	93.664	89.209	87.220	87.897	88.925	90.557	95.666
79	103.210	93.592	89.560	85.461	80.769	78.170	79.385	80.479	82.625	97.503
80	96.161	86.730	81.041	77.396	72.305	69.391	70.697	72.221	74.663	92.093
81	84.415	79.995	73.097	69.071	64.241	61.085	62.312	64.494	66.979	73.932
82	73.508	71.272	66.084	60.903	56.315	52.500	54.036	56.641	59.845	60.831
83	64.507	61.732	59.066	52.905	48.304	44.115	46.061	48.981	52.524	53.105
84	57.077	53.225	50.426	45.529	41.025	36.407	38.069	41.896	44.351	46.037
85	49.713	45.916	42.355	38.323	33.668	28.487	29.829	34.412	36.636	38.861
86	42.362	38.722	35.125	31.177	26.806	21.377	21.897	27.405	29.654	31.552
87	35.077	31.691	28.148	24.491	20.283	14.878	14.171	20.658	23.106	25.113
88	28.493	25.071	21.365	18.004	14.201	9.189	6.632	14.443	17.272	19.388
89	22.592	19.219	15.555	12.049	8.621	4.873	2.219	10.380	12.551	14.667
90	16.722	13.603	10.235	7.164	4.486	2.376	1.650	7.914	9.588	11.505
91	13.869	10.900	7.896	5.266	3.404	2.285	1.802	7.327	8.663	10.278
92	11.027	8.567	6.239	4.649	3.452	2.684	2.225	7.218	8.512	9.806
93	9.359	7.563	5.949	4.649	3.718	3.724	2.926	7.630	8.567	9.709
94	8.851	7.188	5.870	4.800	4.311	4.921	3.972	8.349	8.905	9.746
95	8.355	7.079	5.931	5.109	5.278	6.094	5.211	8.905	9.534	9.957
96	8.270	7.073	6.124	5.701	6.523	7.273	6.614	9.546	10.501	10.441
97	8.204	7.176	6.378	6.572	7.799	8.548	7.992	10.326	11.487	11.148
98	8.234	7.382	7.067	7.799	9.020	9.879	9.443	11.239	12.327	12.115
99	8.367	7.708	7.890	9.074	10.386	11.227	10.568	12.242	13.325	13.119
100	8.524	8.403	8.990	10.350	11.680	12.363	11.843	13.228	14.328	14.092
101	9.056	9.195	10.205	11.565	12.950	13.506	13.149	14.292	15.289	15.041
102	9.782	10.259	11.450	12.877	14.256	14.806	14.552	15.489	16.329	16.075
103	10.610	11.493	12.714	14.262	15.495	16.124	15.948	16.710	17.303	17.218
104	11.626	12.726	14.014	15.652	16.704	17.405	17.357	17.859	18.276	18.421
105	12.792	13.923	15.326	17.024	17.847	18.524	18.524	18.893	19.207	19.570
106	13.959	15.120	16.619	18.330	18.995	19.576	19.678	19.890	20.126	20.634
107	15.072	16.299	17.895	19.672	20.083	20.591	20.748	20.863	21.027	21.710
108	16.178	17.466	19.122	20.664	21.081	21.516	21.667	21.752	21.952	22.502
109	17.248	18.657	20.362	21.601	22.060	22.435	22.653	22.659	22.889	23.227
110	18.288	19.817	21.601	22.508	23.052	23.421	23.753	23.638	23.838	24.001
111	19.298	20.978	22.834	23.439	24.049	24.454	24.847	24.636	24.805	24.757
112	20.259	22.103	24.001	24.291	24.962	25.422	25.833	25.555	25.682	25.482
113	21.208	23.106	24.702	25.095	25.760	26.226	26.667	26.304	26.413	26.117
114	22.169	24.031	25.283	25.827	26.419	26.873	27.338	26.903	27.060	26.691

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CANDELA TABULATION - (Cont.)

115	23.100	24.890	25.863	26.359	26.909	27.284	27.792	27.374	27.556	27.169
116	23.959	25.754	26.413	26.794	27.284	27.592	28.070	27.695	27.894	27.556
117	24.702	26.437	26.885	27.145	27.604	27.967	28.523	28.088	28.179	27.900
118	25.410	26.794	27.308	27.507	27.985	28.354	28.838	28.420	28.469	28.233
119	26.093	27.187	27.755	27.870	28.154	28.584	29.116	28.747	28.698	28.481
120	26.776	27.616	28.221	28.142	28.354	28.717	29.291	28.952	28.844	28.765
121	27.417	28.094	28.674	28.402	28.614	28.958	29.557	29.146	29.007	29.013
122	27.870	28.584	28.934	28.608	28.898	29.267	29.805	29.412	29.279	29.255
123	28.275	29.043	29.182	28.850	29.146	29.515	30.101	29.702	29.563	29.496
124	28.674	29.527	29.436	29.061	29.345	29.732	30.428	30.010	29.787	29.660
125	29.079	29.992	29.617	29.218	29.569	29.895	30.621	30.222	29.980	29.817
126	29.466	30.409	29.726	29.448	29.847	30.089	30.839	30.428	30.143	29.974
127	29.853	30.488	29.817	29.623	30.083	30.361	30.966	30.573	30.282	30.095
128	30.222	30.500	29.859	29.714	30.258	30.554	31.062	30.700	30.440	30.216
129	30.603	30.500	29.853	29.793	30.367	30.700	31.201	30.845	30.573	30.343
130	31.032	30.500	29.817	29.865	30.415	30.772	31.286	30.960	30.706	30.415
131	31.461	30.512	29.769	29.944	30.464	30.784	31.328	31.044	30.754	30.470
132	31.498	30.512	29.726	30.041	30.512	30.796	31.371	31.080	30.827	30.536
133	31.504	30.518	29.732	30.155	30.621	30.833	31.383	31.129	30.893	30.615
134	31.498	30.530	29.883	30.295	30.790	30.978	31.443	31.189	30.966	30.675
135	31.461	30.518	30.041	30.458	30.935	31.111	31.455	31.226	30.996	30.766
136	31.395	30.488	30.186	30.603	31.050	31.244	31.510	31.280	31.086	30.911
137	31.304	30.421	30.319	30.742	31.147	31.365	31.661	31.425	31.256	31.062
138	31.177	30.325	30.434	30.851	31.250	31.467	31.788	31.564	31.389	31.165
139	31.020	30.204	30.530	30.941	31.310	31.522	31.836	31.637	31.449	31.232
140	30.839	30.228	30.621	31.014	31.340	31.540	31.872	31.673	31.492	31.298
141	30.615	30.276	30.694	31.117	31.377	31.558	31.915	31.721	31.546	31.340
142	30.355	30.295	30.736	31.165	31.443	31.600	31.927	31.745	31.564	31.359
143	30.053	30.282	30.742	31.183	31.461	31.649	31.927	31.739	31.552	31.352
144	29.720	30.240	30.712	31.171	31.443	31.655	31.830	31.673	31.504	31.292
145	29.660	30.155	30.651	31.111	31.377	31.600	31.721	31.576	31.407	31.226
146	29.593	30.059	30.542	31.008	31.256	31.467	31.576	31.455	31.298	31.105
147	29.527	29.974	30.421	30.845	31.105	31.310	31.407	31.298	31.141	30.960
148	29.472	29.889	30.307	30.675	30.923	31.123	31.201	31.111	30.978	30.802
149	29.412	29.805	30.204	30.524	30.742	30.929	31.002	30.923	30.790	30.627
150	29.370	29.720	30.101	30.385	30.585	30.748	30.796	30.730	30.615	30.452
151	29.376	29.660	29.986	30.246	30.428	30.585	30.627	30.554	30.440	30.307
152	29.394	29.648	29.908	30.101	30.276	30.415	30.464	30.397	30.307	30.192
153	29.430	29.654	29.889	30.022	30.155	30.282	30.319	30.270	30.192	30.101
154	29.448	29.678	29.871	29.992	30.113	30.222	30.228	30.180	30.125	30.053
155	29.472	29.678	29.859	29.962	30.077	30.186	30.168	30.125	30.077	30.022
156	29.496	29.696	29.829	29.938	30.041	30.137	30.125	30.083	30.041	29.998
157	29.496	29.702	29.811	29.908	30.004	30.095	30.077	30.047	30.010	29.980
158	29.472	29.666	29.769	29.865	29.962	30.053	30.016	29.998	29.962	29.926
159	29.424	29.599	29.708	29.811	29.895	29.974	29.926	29.914	29.883	29.841
160	29.382	29.509	29.623	29.720	29.811	29.883	29.823	29.811	29.781	29.744
161	29.333	29.430	29.521	29.617	29.696	29.762	29.690	29.684	29.666	29.629
162	29.291	29.370	29.454	29.521	29.587	29.642	29.563	29.563	29.557	29.533
163	29.261	29.321	29.388	29.454	29.515	29.557	29.484	29.484	29.484	29.472
164	29.237	29.291	29.339	29.400	29.448	29.490	29.418	29.424	29.430	29.424
165	29.194	29.261	29.309	29.357	29.400	29.436	29.363	29.370	29.376	29.376
166	29.128	29.188	29.255	29.303	29.345	29.382	29.309	29.321	29.321	29.321
167	29.061	29.122	29.176	29.218	29.261	29.291	29.224	29.230	29.230	29.224
168	28.946	29.031	29.097	29.146	29.182	29.206	29.104	29.116	29.116	29.110
169	28.807	28.886	28.958	29.019	29.061	29.091	28.983	28.995	28.995	28.983
170	28.674	28.741	28.807	28.856	28.898	28.928	28.813	28.831	28.831	28.825

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CANDELA TABULATION - (Cont.)

171	28.541	28.602	28.650	28.698	28.729	28.753	28.638	28.650	28.656	28.650
172	28.469	28.499	28.523	28.553	28.578	28.596	28.481	28.493	28.505	28.499
173	28.414	28.439	28.457	28.475	28.487	28.499	28.378	28.390	28.402	28.402
174	28.396	28.402	28.414	28.420	28.426	28.432	28.318	28.330	28.336	28.342
175	28.402	28.402	28.408	28.408	28.414	28.420	28.306	28.312	28.324	28.330
176	28.414	28.414	28.414	28.414	28.414	28.420	28.330	28.312	28.324	28.330
177	28.481	28.475	28.469	28.463	28.463	28.463	28.360	28.342	28.354	28.360
178	28.559	28.547	28.541	28.541	28.535	28.535	28.408	28.414	28.420	28.426
179	28.668	28.662	28.656	28.656	28.656	28.650	28.523	28.523	28.523	28.529
180	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801

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	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635
1	1696.541	1696.377	1696.208	1696.027	1695.839	1695.640	1695.440	1695.229	1695.023	1695.084
2	1709.061	1707.556	1705.760	1703.686	1701.341	1699.587	1698.034	1696.371	1694.624	1694.116
3	1729.187	1727.434	1725.390	1722.621	1718.305	1713.492	1708.595	1703.983	1699.068	1696.262
4	1737.022	1736.302	1735.414	1733.419	1731.375	1728.080	1724.102	1717.313	1709.133	1702.060
5	1724.314	1727.784	1730.154	1732.729	1733.582	1733.497	1731.260	1727.603	1721.787	1710.524
6	1696.764	1700.990	1706.715	1713.607	1721.684	1727.288	1730.287	1730.148	1727.053	1719.864
7	1667.564	1673.350	1680.822	1688.524	1697.351	1708.094	1720.197	1726.321	1727.373	1723.395
8	1642.124	1645.975	1651.694	1661.754	1673.833	1685.531	1698.759	1714.000	1722.156	1722.337
9	1631.998	1633.703	1635.365	1638.370	1647.069	1662.280	1678.114	1694.134	1712.398	1718.268
10	1603.946	1612.773	1621.436	1627.349	1630.214	1637.548	1655.872	1675.157	1694.787	1711.479
11	1576.082	1579.510	1592.774	1607.598	1619.012	1623.999	1632.614	1655.340	1677.189	1701.129
12	1590.609	1577.557	1569.341	1576.946	1596.317	1612.615	1619.090	1633.400	1659.439	1682.339
13	1616.152	1604.672	1585.719	1566.191	1567.159	1591.015	1608.631	1615.094	1636.635	1664.299
14	1616.539	1616.327	1608.486	1588.197	1563.036	1563.924	1588.747	1603.456	1614.907	1646.622
15	1595.863	1604.702	1609.043	1604.720	1583.875	1554.904	1561.718	1588.832	1600.119	1626.115
16	1566.766	1577.974	1592.320	1601.467	1598.015	1573.416	1546.972	1565.677	1588.391	1605.730
17	1530.571	1547.571	1565.206	1584.594	1593.300	1587.980	1557.298	1542.208	1574.184	1589.092
18	1503.118	1513.468	1534.591	1556.198	1575.616	1585.640	1573.851	1535.389	1553.429	1576.118
19	1474.891	1488.590	1502.773	1524.047	1549.125	1571.614	1577.212	1546.368	1530.335	1563.096
20	1436.205	1457.987	1477.998	1492.193	1518.473	1547.782	1568.307	1557.691	1517.143	1548.665
21	1421.339	1420.099	1444.385	1467.158	1487.683	1521.103	1551.712	1558.822	1518.945	1531.000
22	1435.897	1418.600	1411.007	1434.041	1461.397	1489.436	1527.735	1550.993	1528.817	1511.219
23	1438.272	1431.634	1412.845	1402.755	1434.089	1462.388	1502.985	1537.904	1534.591	1492.653
24	1423.624	1428.890	1422.312	1402.531	1398.644	1437.934	1473.524	1517.258	1530.081	1489.062
25	1395.300	1409.743	1418.219	1411.116	1386.069	1408.486	1446.507	1490.912	1518.909	1493.040
26	1364.244	1379.419	1398.462	1407.984	1393.184	1376.063	1420.728	1461.911	1502.217	1496.770
27	1345.061	1350.109	1368.234	1392.447	1394.430	1369.655	1392.598	1430.335	1480.549	1495.561
28	1312.506	1328.230	1339.203	1366.161	1386.619	1374.358	1362.455	1404.242	1458.247	1488.137
29	1277.593	1292.640	1317.578	1334.899	1369.443	1372.829	1349.372	1380.192	1432.807	1476.021
30	1269.038	1267.502	1284.811	1311.115	1341.204	1361.300	1349.251	1351.113	1403.758	1460.768
31	1253.918	1259.063	1257.376	1285.010	1309.543	1342.613	1346.809	1329.337	1379.020	1443.653
32	1222.039	1239.928	1248.652	1252.715	1281.087	1317.016	1338.822	1323.497	1358.398	1425.462
33	1184.877	1206.925	1231.924	1237.135	1253.507	1284.424	1326.598	1322.644	1334.367	1399.442
34	1157.630	1171.269	1202.542	1224.089	1228.986	1258.470	1307.724	1318.878	1309.640	1367.835
35	1131.301	1143.900	1168.306	1198.879	1215.486	1232.136	1279.152	1310.275	1292.906	1337.801
36	1110.613	1119.500	1136.053	1165.676	1196.944	1211.605	1249.728	1295.161	1283.106	1308.316
37	1104.066	1100.063	1113.370	1128.562	1171.105	1200.281	1225.346	1272.599	1274.358	1280.476
38	1079.720	1093.008	1090.354	1103.104	1139.444	1184.164	1198.764	1240.267	1261.874	1255.194
39	1034.039	1069.878	1077.108	1080.657	1108.993	1161.058	1179.152	1207.778	1248.265	1236.289
40	978.093	1029.965	1058.204	1065.785	1083.861	1125.697	1158.144	1178.076	1231.029	1221.175
41	952.097	973.233	1020.129	1055.175	1064.582	1094.417	1134.535	1151.959	1205.269	1207.566

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42	946.251	941.397	966.716	1028.314	1052.182	1061.861	1103.939	1132.516	1172.363	1195.118
43	937.757	933.410	931.651	987.718	1034.263	1036.633	1073.832	1112.856	1139.698	1180.663
44	907.759	923.544	921.077	940.242	1001.889	1020.062	1042.691	1091.678	1110.982	1161.064
45	870.911	893.437	914.881	916.138	957.418	1000.299	1009.573	1063.197	1087.724	1137.250
46	825.182	858.245	891.484	907.390	914.052	974.212	989.659	1032.220	1064.872	1108.032
47	794.797	810.812	863.324	889.018	891.158	938.283	970.929	1001.037	1041.832	1074.466
48	789.640	786.653	820.950	864.104	874.448	896.405	950.127	970.131	1018.623	1043.610
49	771.074	778.661	786.315	824.408	855.446	866.123	921.888	941.524	990.487	1015.371
50	722.171	762.719	771.987	780.777	831.155	846.753	886.896	916.954	958.149	993.818
51	684.386	717.498	756.087	758.342	793.352	825.835	849.038	892.796	928.586	971.316
52	661.812	683.618	714.016	740.852	754.007	798.980	819.022	871.528	899.295	949.443
53	637.660	661.008	677.524	713.997	730.188	766.177	795.190	842.859	871.794	922.710
54	601.416	640.332	647.411	674.955	707.952	732.926	771.848	809.905	845.640	880.874
55	564.290	606.525	621.965	641.892	677.428	705.540	747.121	778.159	812.819	837.950
56	547.750	565.868	592.034	615.660	642.762	680.644	719.862	747.532	780.088	794.730
57	516.651	539.086	557.501	588.799	612.171	652.580	689.337	719.239	748.203	745.374
58	488.279	504.366	534.153	557.713	586.526	622.491	660.820	692.759	711.906	685.166
59	469.870	473.032	510.333	528.815	560.524	591.532	636.680	666.189	655.984	618.277
60	441.625	446.709	472.113	504.596	531.952	569.768	611.712	621.542	593.092	542.278
61	396.096	422.775	440.253	475.087	502.595	553.511	585.468	571.817	514.855	466.454
62	364.314	390.915	413.706	444.213	484.748	536.892	539.914	499.917	438.524	390.346
63	335.809	359.889	388.128	419.395	472.554	515.992	487.856	424.849	362.561	350.566
64	310.254	320.441	355.239	394.119	460.687	472.766	418.422	349.901	321.777	333.360
65	275.178	300.418	327.744	380.794	440.930	419.680	348.529	295.618	307.080	316.529
66	248.244	274.791	300.690	370.795	404.173	353.323	278.581	280.842	291.664	300.200
67	224.842	245.445	279.325	364.393	358.371	285.364	255.354	265.166	276.211	278.297
68	200.702	220.852	271.538	342.973	297.196	228.082	240.718	249.538	256.007	255.342
69	181.501	200.103	271.484	308.392	236.510	215.223	227.067	230.978	235.289	225.459
70	166.834	181.356	275.516	249.629	193.151	202.709	211.215	211.705	209.232	195.914
71	156.206	179.482	253.933	194.390	179.760	190.207	193.810	189.771	183.121	166.973
72	146.715	190.110	215.979	154.048	165.704	176.090	175.842	168.170	157.476	144.091
73	137.846	202.213	170.921	143.329	152.603	161.339	158.050	146.932	141.014	137.404
74	129.303	191.041	131.244	133.445	140.663	146.092	140.403	134.019	133.517	130.627
75	136.661	155.136	122.460	124.358	130.265	131.722	127.961	126.571	125.996	123.802
76	143.063	120.108	113.833	116.088	120.150	119.830	119.528	119.038	118.451	117.164
77	132.622	104.093	105.611	108.053	110.907	110.900	111.239	111.463	111.402	110.671
78	107.557	95.557	97.842	100.442	102.225	102.279	103.150	104.093	104.504	104.553
79	86.247	87.438	90.225	92.171	93.157	93.882	95.363	96.881	98.011	98.567
80	78.018	79.899	82.281	83.617	84.457	85.811	87.982	89.838	91.506	92.564
81	70.032	72.450	74.053	75.207	76.362	78.472	80.703	82.788	84.983	86.500
82	62.669	64.724	65.843	67.275	69.071	71.163	73.436	75.751	78.176	79.778
83	55.607	56.780	58.183	59.954	61.822	63.914	66.357	68.781	71.241	73.043
84	47.748	49.223	51.013	52.669	54.803	57.016	59.374	61.822	64.313	66.314
85	40.246	42.102	43.867	45.886	48.044	50.154	52.415	54.876	57.572	59.918
86	33.505	35.270	37.398	39.278	41.304	43.601	46.128	48.848	51.551	53.939
87	27.199	29.104	30.996	33.239	35.590	37.918	40.373	43.196	45.953	48.443
88	21.359	23.602	25.772	28.215	30.724	33.190	35.657	38.263	40.850	43.238
89	17.061	19.467	21.728	24.043	26.365	28.656	30.953	33.348	35.754	38.039
90	13.500	15.706	17.702	19.884	22.018	24.134	26.256	28.439	30.663	32.840
91	12.194	14.249	16.226	18.318	20.349	22.357	24.358	26.407	28.475	30.440
92	11.245	12.986	14.757	16.764	18.687	20.579	22.465	24.382	26.286	28.046
93	11.015	12.430	13.887	15.628	17.284	18.911	20.573	22.357	24.098	25.651
94	10.924	12.212	13.615	14.993	16.317	17.780	19.292	20.809	22.260	23.493
95	10.936	12.152	13.349	14.630	15.882	17.115	18.312	19.491	20.730	21.746
96	11.118	12.146	13.252	14.316	15.447	16.619	17.726	18.778	19.715	20.356
97	11.378	12.218	13.161	14.195	15.168	16.118	17.139	18.058	18.826	19.243

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98	11.934	12.351	13.143	14.074	15.035	15.906	16.662	17.333	17.931	18.131
99	12.587	12.599	13.210	14.020	14.902	15.731	16.438	16.976	17.242	17.006
100	13.470	13.198	13.288	14.020	14.812	15.555	16.208	16.716	16.994	16.777
101	14.455	13.893	13.778	14.038	14.739	15.416	15.997	16.462	16.746	16.631
102	15.495	14.812	14.461	14.195	14.685	15.295	15.827	16.245	16.504	16.486
103	16.553	15.870	15.229	14.927	14.618	15.199	15.700	16.069	16.329	16.353
104	17.617	16.916	16.136	15.664	15.199	15.102	15.598	15.960	16.166	16.251
105	18.681	17.895	17.163	16.474	15.906	15.447	15.495	15.870	16.081	16.166
106	19.745	18.880	18.191	17.351	16.619	16.136	15.706	15.785	15.997	16.093
107	20.839	19.896	19.098	18.270	17.399	16.819	16.353	15.960	15.906	16.021
108	21.915	20.918	20.011	19.177	18.215	17.520	16.988	16.547	16.136	15.948
109	22.955	21.970	20.912	19.987	19.044	18.227	17.629	17.127	16.668	16.287
110	23.995	22.991	21.806	20.748	19.848	18.971	18.282	17.702	17.194	16.758
111	24.980	23.941	22.665	21.498	20.561	19.709	18.941	18.294	17.714	17.236
112	25.930	24.817	23.481	22.212	21.226	20.440	19.606	18.893	18.252	17.708
113	26.456	25.615	24.243	22.895	21.885	21.051	20.259	19.491	18.790	18.191
114	26.903	26.329	24.956	23.584	22.514	21.613	20.888	20.083	19.340	18.675
115	27.296	27.012	25.682	24.243	23.118	22.175	21.389	20.670	19.890	19.165
116	27.665	27.689	26.389	24.884	23.711	22.731	21.867	21.135	20.440	19.654
117	27.991	28.245	27.006	25.543	24.297	23.282	22.326	21.553	20.918	20.132
118	28.281	28.487	27.568	26.220	24.878	23.802	22.798	21.964	21.287	20.555
119	28.535	28.711	28.112	26.885	25.482	24.315	23.257	22.381	21.649	20.882
120	28.850	28.958	28.674	27.477	26.105	24.811	23.729	22.828	22.006	21.214
121	29.164	29.273	29.164	28.033	26.697	25.325	24.213	23.276	22.381	21.540
122	29.430	29.569	29.412	28.541	27.260	25.875	24.696	23.747	22.762	21.885
123	29.678	29.877	29.672	29.013	27.761	26.437	25.204	24.201	23.179	22.236
124	29.895	30.192	29.938	29.472	28.245	27.006	25.778	24.642	23.614	22.617
125	30.059	30.494	30.192	29.775	28.698	27.550	26.353	25.113	24.037	22.997
126	30.210	30.742	30.421	29.998	29.170	28.088	26.915	25.645	24.460	23.378
127	30.343	30.827	30.621	30.240	29.666	28.590	27.441	26.177	24.986	23.747
128	30.403	30.887	30.851	30.488	30.059	29.085	27.949	26.709	25.506	24.225
129	30.409	30.911	31.129	30.760	30.349	29.581	28.426	27.248	26.020	24.739
130	30.409	30.917	31.425	31.074	30.645	30.059	28.910	27.761	26.516	25.259
131	30.415	30.917	31.715	31.413	30.953	30.373	29.400	28.257	27.000	25.797
132	30.415	30.947	31.764	31.764	31.268	30.663	29.902	28.741	27.483	26.353
133	30.403	30.996	31.770	32.102	31.576	30.966	30.276	29.218	27.961	26.921
134	30.458	31.044	31.794	32.417	31.891	31.256	30.554	29.684	28.469	27.514
135	30.609	31.068	31.806	32.646	32.193	31.540	30.827	29.992	28.989	28.112
136	30.760	31.044	31.788	32.568	32.513	31.818	31.086	30.252	29.509	28.717
137	30.875	31.002	31.721	32.471	32.828	32.096	31.334	30.530	29.859	29.327
138	30.953	30.953	31.625	32.350	33.112	32.374	31.576	30.814	30.210	29.750
139	31.020	30.869	31.522	32.205	32.918	32.634	31.818	31.117	30.573	30.125
140	31.074	30.881	31.389	32.036	32.670	32.882	32.072	31.431	30.941	30.494
141	31.117	30.905	31.213	31.818	32.392	32.967	32.344	31.770	31.310	30.863
142	31.129	30.911	31.008	31.564	32.108	32.640	32.640	32.120	31.679	31.226
143	31.105	30.863	30.760	31.280	31.800	32.314	32.961	32.471	32.042	31.588
144	31.056	30.790	30.494	30.966	31.479	32.017	32.689	32.834	32.404	31.957
145	30.966	30.694	30.391	30.633	31.159	31.739	32.410	33.088	32.761	32.338
146	30.851	30.579	30.258	30.295	30.857	31.473	32.132	32.785	33.124	32.725
147	30.718	30.446	30.125	29.986	30.579	31.213	31.860	32.471	32.985	33.112
148	30.573	30.288	30.004	29.787	30.307	30.953	31.570	32.138	32.628	33.130
149	30.397	30.155	29.932	29.775	30.053	30.687	31.274	31.794	32.265	32.761
150	30.258	30.059	29.877	29.756	29.799	30.421	30.953	31.443	31.909	32.380
151	30.155	29.980	29.859	29.756	29.690	30.131	30.633	31.093	31.558	31.993
152	30.065	29.944	29.841	29.762	29.702	29.823	30.295	30.748	31.201	31.594
153	30.022	29.926	29.841	29.775	29.702	29.563	29.938	30.403	30.833	31.183

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154	29.992	29.908	29.847	29.775	29.666	29.533	29.593	30.059	30.458	30.772
155	29.968	29.920	29.847	29.744	29.617	29.490	29.394	29.702	30.077	30.349
156	29.962	29.914	29.817	29.702	29.575	29.448	29.394	29.339	29.684	29.920
157	29.932	29.871	29.762	29.642	29.521	29.430	29.382	29.303	29.273	29.484
158	29.871	29.793	29.702	29.581	29.472	29.424	29.370	29.279	29.152	29.025
159	29.781	29.720	29.617	29.515	29.460	29.412	29.339	29.249	29.110	28.910
160	29.690	29.617	29.551	29.484	29.442	29.388	29.309	29.200	29.061	28.844
161	29.587	29.539	29.509	29.472	29.424	29.357	29.273	29.152	29.001	28.771
162	29.509	29.490	29.478	29.448	29.394	29.321	29.218	29.097	28.922	28.705
163	29.466	29.454	29.436	29.412	29.351	29.267	29.158	29.025	28.838	28.644
164	29.418	29.412	29.388	29.357	29.297	29.200	29.091	28.940	28.759	28.596
165	29.370	29.357	29.327	29.285	29.212	29.128	29.013	28.844	28.680	28.559
166	29.303	29.279	29.237	29.182	29.122	29.043	28.904	28.753	28.608	28.535
167	29.206	29.176	29.134	29.079	29.013	28.916	28.801	28.662	28.559	28.523
168	29.091	29.061	29.019	28.958	28.880	28.777	28.680	28.590	28.523	28.523
169	28.958	28.928	28.880	28.807	28.735	28.656	28.578	28.523	28.511	28.523
170	28.801	28.765	28.717	28.662	28.602	28.547	28.505	28.481	28.493	28.511
171	28.632	28.608	28.572	28.535	28.499	28.475	28.457	28.463	28.481	28.493
172	28.493	28.481	28.463	28.451	28.432	28.426	28.439	28.451	28.463	28.475
173	28.402	28.402	28.390	28.396	28.402	28.408	28.426	28.432	28.445	28.475
174	28.354	28.360	28.366	28.378	28.390	28.402	28.408	28.420	28.445	28.481
175	28.342	28.354	28.360	28.372	28.378	28.384	28.408	28.432	28.457	28.487
176	28.336	28.342	28.354	28.372	28.390	28.408	28.426	28.451	28.475	28.505
177	28.372	28.384	28.396	28.408	28.426	28.439	28.457	28.481	28.505	28.535
178	28.432	28.445	28.457	28.469	28.481	28.493	28.511	28.529	28.547	28.572
179	28.535	28.541	28.547	28.553	28.565	28.572	28.584	28.590	28.602	28.614
180	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801

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	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635
1	1695.168	1695.265	1695.380	1695.513	1695.658	1695.585	1695.519	1695.470	1695.434	1695.410
2	1693.590	1693.064	1693.191	1693.421	1693.681	1693.681	1693.705	1693.784	1694.267	1694.775
3	1693.354	1692.163	1691.166	1691.365	1691.704	1691.928	1692.194	1692.689	1693.385	1695.331
4	1696.075	1691.976	1690.102	1689.340	1689.727	1690.326	1690.785	1691.408	1693.977	1695.084
5	1700.343	1692.726	1688.252	1686.372	1686.801	1687.811	1688.300	1690.610	1692.423	1692.043
6	1706.117	1693.971	1686.765	1683.542	1683.875	1685.326	1685.930	1689.231	1689.509	1686.698
7	1712.700	1696.389	1685.223	1680.145	1679.994	1681.693	1683.530	1685.810	1683.706	1685.671
8	1715.699	1698.753	1683.615	1676.723	1676.118	1678.114	1680.858	1681.566	1680.737	1690.912
9	1716.684	1702.362	1682.563	1673.289	1672.237	1674.613	1677.702	1676.028	1681.070	1693.397
10	1714.351	1705.089	1682.472	1669.849	1668.362	1671.191	1673.797	1671.923	1685.199	1693.590
11	1709.484	1704.902	1682.055	1665.394	1662.516	1665.805	1668.386	1670.025	1684.999	1693.808
12	1701.945	1702.707	1682.152	1661.385	1656.676	1660.412	1662.601	1668.150	1682.007	1691.692
13	1690.888	1697.774	1682.605	1657.879	1650.830	1654.995	1656.567	1667.872	1679.438	1689.848
14	1675.405	1691.994	1682.744	1654.518	1644.984	1649.500	1650.824	1666.252	1677.164	1690.211
15	1658.919	1684.788	1680.115	1649.983	1638.346	1643.007	1645.322	1661.845	1675.048	1691.118
16	1643.587	1675.484	1675.683	1645.467	1631.714	1636.405	1640.740	1657.117	1670.544	1688.597
17	1627.590	1662.951	1670.037	1639.670	1624.283	1628.866	1635.909	1652.770	1667.854	1680.870
18	1610.161	1649.355	1663.326	1634.023	1616.853	1621.297	1631.792	1648.484	1665.248	1668.821
19	1589.890	1634.507	1655.805	1628.467	1609.423	1613.776	1627.862	1643.932	1661.796	1653.665
20	1572.442	1620.269	1648.532	1622.784	1601.993	1606.256	1623.492	1638.587	1654.566	1635.153
21	1556.815	1605.905	1638.751	1615.656	1592.103	1596.401	1616.092	1631.490	1645.050	1615.983
22	1541.356	1588.379	1626.623	1608.275	1582.218	1586.341	1606.558	1623.183	1632.197	1596.873
23	1525.583	1568.464	1613.752	1600.748	1572.328	1576.251	1596.812	1616.243	1617.119	1574.220
24	1509.774	1547.474	1599.902	1593.016	1562.437	1566.367	1587.508	1608.583	1600.307	1549.076

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CANDELA TABULATION - (Cont.)

25	1490.887	1527.209	1586.039	1585.035	1552.976	1557.848	1579.824	1599.617	1581.976	1526.865
26	1472.291	1508.577	1572.684	1576.892	1543.514	1549.675	1572.225	1590.743	1564.898	1506.183
27	1455.738	1492.919	1560.224	1568.628	1534.482	1542.698	1565.170	1580.870	1548.786	1489.043
28	1448.254	1478.325	1547.698	1560.230	1525.450	1536.114	1558.556	1571.433	1528.944	1480.205
29	1446.289	1465.943	1535.226	1551.706	1516.418	1529.851	1551.658	1559.197	1507.670	1471.408
30	1448.937	1453.973	1522.820	1543.049	1507.392	1523.890	1544.482	1546.126	1485.906	1463.785
31	1449.916	1439.469	1503.184	1529.906	1492.731	1510.898	1532.209	1530.553	1465.429	1460.194
32	1446.041	1418.479	1479.219	1515.989	1478.071	1497.138	1517.282	1510.070	1444.542	1457.056
33	1432.305	1399.067	1454.535	1501.769	1463.410	1483.348	1502.350	1490.373	1429.252	1448.762
34	1415.565	1382.707	1429.712	1487.254	1448.749	1469.528	1487.339	1471.227	1415.698	1437.384
35	1396.915	1369.377	1405.838	1471.179	1432.783	1454.958	1471.318	1451.331	1400.324	1426.369
36	1376.462	1360.097	1382.713	1454.710	1416.823	1440.280	1454.608	1426.230	1386.087	1412.905
37	1353.030	1351.591	1360.351	1436.689	1399.556	1424.779	1437.094	1400.729	1375.453	1391.709
38	1325.927	1340.576	1340.866	1417.548	1382.296	1408.443	1418.757	1374.098	1364.673	1364.323
39	1294.309	1327.886	1322.185	1398.571	1365.030	1392.042	1400.421	1348.882	1351.464	1333.647
40	1263.603	1313.207	1304.272	1379.745	1347.764	1375.580	1382.097	1325.722	1335.673	1302.845
41	1235.388	1296.455	1283.451	1358.386	1326.761	1355.520	1361.638	1305.142	1319.283	1271.740
42	1209.525	1275.380	1259.752	1336.525	1305.759	1335.062	1339.524	1284.412	1300.469	1241.271
43	1184.617	1252.691	1236.833	1314.465	1284.757	1314.646	1317.633	1265.604	1277.459	1214.337
44	1161.118	1228.363	1214.682	1292.211	1263.754	1294.260	1295.959	1247.358	1251.717	1192.906
45	1138.393	1201.956	1193.831	1267.575	1241.379	1272.430	1273.089	1229.578	1224.494	1175.893
46	1118.902	1171.262	1174.249	1242.304	1218.999	1250.321	1248.858	1211.145	1195.070	1162.055
47	1099.828	1140.037	1154.274	1215.389	1195.245	1226.852	1223.206	1192.555	1165.422	1148.495
48	1080.234	1108.709	1133.369	1188.498	1171.486	1203.129	1196.146	1170.876	1138.127	1129.639
49	1060.410	1080.155	1112.004	1161.831	1147.733	1179.327	1168.397	1147.721	1112.439	1106.575
50	1039.886	1054.715	1090.566	1135.376	1123.980	1155.441	1140.122	1123.738	1087.990	1075.518
51	1017.692	1030.890	1053.942	1081.316	1069.702	1100.033	1094.332	1097.923	1065.604	1041.228
52	986.938	984.949	1005.601	1023.967	1015.419	1040.804	1035.853	1038.247	1037.981	1004.670
53	937.733	939.311	956.879	966.673	961.142	981.558	978.305	978.704	987.464	966.419
54	889.586	894.156	907.475	909.548	906.864	922.450	921.422	918.768	934.680	918.399
55	843.107	849.135	847.750	841.306	839.311	853.995	857.792	858.022	879.060	871.262
56	793.503	787.718	780.928	771.975	771.757	784.374	789.422	789.477	817.540	827.298
57	733.718	725.073	704.512	691.278	690.927	705.316	714.233	721.252	748.451	777.065
58	667.785	644.824	621.887	609.403	610.098	625.103	634.474	647.030	675.898	715.231
59	590.075	563.752	539.407	527.648	529.274	544.799	555.204	573.304	597.861	644.171
60	511.216	481.889	457.404	446.002	448.444	464.399	476.399	500.050	522.056	563.921
61	430.785	409.154	416.052	423.041	431.366	440.422	435.936	435.011	448.777	485.274
62	379.785	392.372	399.403	406.289	414.293	422.473	418.482	417.128	404.614	408.840
63	362.216	375.940	382.995	389.627	397.214	404.650	400.805	399.100	389.173	372.252
64	345.216	359.834	366.817	373.050	380.135	386.955	382.922	380.939	372.929	358.051
65	328.784	341.486	342.683	344.799	349.575	356.696	356.866	360.300	355.530	342.465
66	307.135	314.885	314.407	315.465	319.014	325.265	326.608	331.190	330.749	325.453
67	282.299	285.443	278.158	274.253	274.972	281.368	287.982	299.076	302.207	301.482
68	251.521	248.136	238.124	231.988	230.924	236.419	245.282	258.752	267.681	276.520
69	218.391	210.822	198.163	189.717	186.882	191.513	202.516	218.373	231.546	244.653
70	185.358	173.358	158.268	147.440	142.833	146.654	159.676	177.904	195.932	213.029
71	152.397	147.162	142.422	138.716	136.764	137.888	142.948	149.913	160.777	181.858
72	142.211	140.089	135.917	132.520	130.694	131.836	136.425	142.779	149.834	156.920
73	135.264	133.082	129.400	126.317	124.630	125.797	129.926	135.657	142.126	148.945
74	128.372	126.129	122.913	120.108	118.560	119.757	123.439	128.542	134.394	140.790
75	121.559	119.552	116.819	114.262	112.841	114.050	117.418	121.873	126.734	132.441
76	115.308	113.337	110.852	108.446	107.122	108.361	111.535	115.677	120.156	124.830
77	109.171	107.497	105.278	102.999	101.760	103.005	106.124	109.963	113.784	117.774
78	103.513	101.947	99.795	97.576	96.391	97.667	100.835	104.667	108.386	111.680
79	97.848	96.397	94.311	92.147	91.023	92.322	95.545	99.359	102.963	105.907
80	92.177	90.841	88.822	86.718	85.660	86.984	90.249	94.051	97.528	100.091

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81	86.222	84.753	82.172	79.258	77.644	79.234	83.453	88.072	91.663	94.148
82	79.862	78.399	75.322	71.719	69.633	71.386	76.404	81.755	85.189	86.960
83	73.496	72.045	68.472	64.180	61.623	63.545	69.361	75.443	78.702	79.754
84	67.124	65.698	61.629	56.641	53.606	55.704	62.318	69.137	72.197	72.541
85	61.133	59.870	55.529	49.737	46.219	48.637	56.000	63.152	65.976	65.655
86	55.347	54.169	49.501	42.857	38.831	41.594	49.749	57.258	59.900	59.192
87	50.009	49.036	44.242	36.606	32.066	35.330	44.242	51.714	54.163	53.207
88	44.822	43.982	39.024	30.373	25.301	29.079	38.776	46.219	48.534	47.506
89	39.629	38.928	33.813	24.134	18.536	22.828	33.305	40.717	42.906	41.817
90	34.436	33.867	28.590	17.895	11.771	16.577	27.834	35.216	37.271	36.122
91	31.800	31.129	26.238	16.994	11.716	15.767	25.434	32.084	34.194	33.341
92	29.164	28.384	23.880	16.087	11.662	14.951	23.028	28.940	31.111	30.554
93	26.528	25.639	21.522	15.187	11.608	14.135	20.622	25.803	28.027	27.773
94	24.055	22.997	19.219	14.286	11.553	13.331	18.276	22.798	25.132	25.240
95	22.103	21.045	17.738	13.808	11.644	12.950	16.831	20.676	22.858	23.118
96	20.392	19.249	16.329	13.337	11.728	12.581	15.477	18.759	20.869	21.365
97	19.122	18.101	15.719	13.276	11.952	12.635	14.993	17.665	19.400	19.908
98	17.847	16.946	15.114	13.222	12.176	12.690	14.515	16.571	17.937	18.445
99	16.565	15.803	14.509	13.167	12.400	12.750	14.044	15.483	16.474	16.982
100	16.057	15.108	14.056	13.131	12.629	12.823	13.711	14.842	15.900	16.722
101	16.087	15.314	14.431	13.639	13.210	13.373	14.116	15.072	15.936	16.571
102	16.118	15.525	14.806	14.153	13.790	13.917	14.528	15.301	15.985	16.420
103	16.154	15.737	15.187	14.661	14.370	14.467	14.939	15.537	16.033	16.287
104	16.148	15.888	15.519	15.156	14.945	14.999	15.307	15.706	16.033	16.178
105	16.136	15.972	15.688	15.398	15.235	15.271	15.507	15.803	16.021	16.081
106	16.075	15.985	15.809	15.628	15.519	15.519	15.658	15.833	15.954	15.997
107	16.009	15.930	15.761	15.610	15.507	15.513	15.634	15.785	15.882	15.906
108	15.942	15.876	15.719	15.586	15.501	15.501	15.616	15.743	15.815	15.821
109	15.936	15.827	15.676	15.567	15.489	15.489	15.592	15.700	15.809	16.196
110	16.359	16.051	15.737	15.567	15.483	15.507	15.688	15.960	16.293	16.722
111	16.783	16.426	16.081	15.894	15.809	15.864	16.087	16.396	16.777	17.254
112	17.200	16.807	16.426	16.220	16.142	16.226	16.480	16.831	17.254	17.780
113	17.623	17.182	16.770	16.547	16.468	16.583	16.879	17.266	17.744	18.324
114	18.064	17.562	17.121	16.873	16.795	16.940	17.284	17.714	18.246	18.874
115	18.512	17.943	17.496	17.236	17.157	17.333	17.702	18.173	18.759	19.443
116	18.965	18.336	17.877	17.599	17.514	17.720	18.137	18.651	19.292	20.011
117	19.418	18.729	18.282	17.998	17.901	18.137	18.578	19.128	19.817	20.579
118	19.866	19.128	18.687	18.391	18.288	18.554	19.026	19.600	20.337	21.087
119	20.223	19.521	19.086	18.784	18.675	18.971	19.467	20.077	20.761	21.498
120	20.489	19.811	19.431	19.165	19.062	19.370	19.860	20.434	21.093	21.903
121	20.755	20.083	19.684	19.412	19.322	19.642	20.162	20.767	21.432	22.302
122	21.002	20.356	19.938	19.666	19.576	19.908	20.470	21.105	21.770	22.713
123	21.299	20.628	20.192	19.914	19.836	20.180	20.773	21.438	22.151	23.130
124	21.619	20.978	20.489	20.174	20.090	20.458	21.111	21.831	22.562	23.566
125	21.994	21.335	20.833	20.513	20.440	20.821	21.504	22.236	23.022	24.007
126	22.393	21.764	21.220	20.869	20.791	21.190	21.927	22.701	23.505	24.442
127	22.804	22.199	21.667	21.311	21.238	21.649	22.393	23.167	23.983	24.890
128	23.227	22.629	22.115	21.746	21.680	22.103	22.864	23.632	24.460	25.440
129	23.771	23.058	22.562	22.187	22.127	22.562	23.330	24.092	25.041	26.038
130	24.370	23.650	23.094	22.647	22.568	23.034	23.862	24.696	25.658	26.637
131	24.968	24.243	23.723	23.282	23.221	23.669	24.485	25.307	26.274	27.241
132	25.567	24.841	24.346	23.916	23.874	24.297	25.107	25.911	26.897	27.864
133	26.171	25.440	24.974	24.551	24.527	24.926	25.724	26.528	27.526	28.493
134	26.776	26.069	25.603	25.192	25.174	25.561	26.359	27.175	28.154	29.128
135	27.387	26.697	26.244	25.845	25.839	26.214	27.000	27.822	28.795	29.762
136	28.003	27.344	26.891	26.498	26.498	26.867	27.653	28.487	29.442	30.397

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137	28.614	27.991	27.550	27.163	27.163	27.538	28.324	29.152	30.089	31.032
138	29.218	28.644	28.203	27.834	27.834	28.209	28.989	29.817	30.730	31.492
139	29.648	29.297	28.862	28.499	28.499	28.880	29.660	30.476	31.189	31.903
140	30.028	29.708	29.394	29.134	29.170	29.521	30.204	30.887	31.594	32.308
141	30.421	30.107	29.775	29.533	29.569	29.914	30.597	31.286	31.999	32.713
142	30.820	30.506	30.149	29.932	29.968	30.307	30.984	31.685	32.398	33.118
143	31.219	30.905	30.530	30.325	30.361	30.706	31.371	32.078	32.791	33.517
144	31.618	31.304	30.911	30.724	30.760	31.099	31.745	32.465	33.184	33.922
145	32.017	31.703	31.292	31.123	31.159	31.492	32.120	32.846	33.577	34.321
146	32.410	32.090	31.667	31.522	31.558	31.891	32.489	33.233	33.964	34.714
147	32.803	32.477	32.048	31.915	31.957	32.284	32.858	33.614	34.345	35.107
148	33.196	32.858	32.435	32.314	32.356	32.676	33.227	33.994	34.720	35.113
149	33.130	33.239	32.816	32.707	32.749	33.069	33.595	34.369	34.647	34.750
150	32.713	32.882	32.882	33.027	33.148	33.384	33.650	34.043	34.230	34.369
151	32.290	32.404	32.435	32.574	32.707	32.942	33.215	33.601	33.813	33.970
152	31.854	31.927	31.987	32.120	32.265	32.501	32.773	33.160	33.384	33.553
153	31.407	31.455	31.540	31.673	31.824	32.060	32.326	32.707	32.955	33.130
154	30.953	30.984	31.093	31.219	31.383	31.618	31.884	32.247	32.507	32.695
155	30.494	30.518	30.645	30.766	30.941	31.177	31.443	31.788	32.060	32.259
156	30.022	30.059	30.198	30.319	30.494	30.730	30.996	31.322	31.606	31.812
157	29.545	29.599	29.750	29.865	30.053	30.288	30.548	30.851	31.147	31.359
158	29.061	29.146	29.303	29.418	29.611	29.841	30.101	30.385	30.681	30.893
159	28.656	28.698	28.856	28.971	29.170	29.394	29.654	29.920	30.282	30.766
160	28.614	28.535	28.535	28.559	28.729	28.983	29.321	29.720	30.210	30.681
161	28.584	28.535	28.535	28.565	28.735	28.977	29.303	29.672	30.137	30.591
162	28.559	28.535	28.535	28.578	28.741	28.971	29.279	29.623	30.053	30.506
163	28.541	28.535	28.541	28.590	28.747	28.964	29.255	29.575	29.974	30.409
164	28.529	28.529	28.547	28.602	28.753	28.958	29.230	29.527	29.889	30.307
165	28.529	28.535	28.553	28.614	28.759	28.958	29.200	29.478	29.811	30.198
166	28.529	28.535	28.559	28.632	28.765	28.952	29.176	29.436	29.732	30.077
167	28.529	28.535	28.572	28.644	28.771	28.946	29.152	29.394	29.654	29.968
168	28.529	28.541	28.584	28.656	28.777	28.940	29.128	29.345	29.575	29.859
169	28.529	28.553	28.596	28.674	28.783	28.940	29.104	29.297	29.509	29.750
170	28.523	28.559	28.608	28.686	28.789	28.934	29.073	29.243	29.436	29.629
171	28.511	28.553	28.602	28.680	28.777	28.910	29.037	29.182	29.351	29.521
172	28.511	28.547	28.602	28.674	28.771	28.880	28.995	29.122	29.267	29.418
173	28.511	28.547	28.602	28.674	28.759	28.856	28.958	29.067	29.182	29.309
174	28.511	28.553	28.608	28.668	28.747	28.831	28.916	29.007	29.104	29.206
175	28.523	28.559	28.614	28.668	28.735	28.807	28.880	28.952	29.031	29.110
176	28.535	28.578	28.620	28.668	28.723	28.777	28.838	28.898	28.958	29.019
177	28.559	28.596	28.626	28.668	28.711	28.753	28.795	28.844	28.886	28.928
178	28.590	28.614	28.644	28.674	28.698	28.729	28.759	28.783	28.813	28.844
179	28.632	28.644	28.656	28.674	28.686	28.705	28.717	28.729	28.747	28.759
180	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801

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	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635	1697.635
1	1695.392	1695.700	1696.015	1696.329	1696.643	1696.946	1697.248	1697.532	1697.804	1698.058
2	1695.313	1696.583	1697.816	1699.007	1699.805	1699.733	1699.690	1699.672	1699.696	1699.757
3	1697.254	1697.139	1697.006	1696.202	1695.138	1694.237	1695.047	1696.474	1697.840	1699.110
4	1695.150	1693.143	1692.224	1694.092	1697.000	1702.000	1706.516	1709.321	1711.473	1713.299
5	1689.558	1691.486	1697.030	1704.085	1708.257	1711.255	1712.712	1714.212	1716.225	1717.942
6	1689.014	1698.880	1705.204	1708.777	1711.334	1714.683	1718.081	1721.527	1725.844	1729.979
7	1696.976	1703.771	1706.836	1711.515	1716.146	1722.718	1729.828	1736.188	1740.619	1742.626

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8	1699.539	1704.164	1709.889	1716.630	1726.291	1735.063	1739.035	1736.762	1733.467	1730.843
9	1699.654	1705.893	1714.774	1726.648	1733.213	1730.293	1725.426	1720.282	1714.448	1707.918
10	1700.271	1709.611	1723.111	1727.403	1721.237	1714.218	1704.357	1693.125	1681.940	1670.708
11	1701.564	1716.237	1721.358	1713.341	1703.058	1688.760	1673.156	1654.125	1640.540	1631.895
12	1705.222	1716.074	1708.015	1694.957	1676.046	1653.454	1633.388	1622.772	1618.329	1615.306
13	1707.997	1704.738	1691.498	1669.511	1640.770	1619.931	1611.703	1607.525	1605.300	1604.351
14	1702.931	1691.910	1669.063	1636.695	1612.609	1602.048	1598.523	1597.737	1596.456	1596.383
15	1691.819	1672.896	1642.003	1608.414	1595.113	1591.837	1588.753	1590.313	1597.508	1606.298
16	1679.540	1651.229	1612.120	1590.567	1585.416	1581.499	1587.810	1600.107	1614.955	1630.039
17	1661.742	1627.101	1590.591	1577.702	1574.431	1583.760	1600.669	1619.586	1630.281	1632.064
18	1641.465	1598.910	1572.920	1570.514	1573.742	1595.095	1617.186	1621.593	1619.767	1608.934
19	1619.175	1576.602	1563.235	1562.334	1581.124	1608.051	1612.839	1599.847	1577.049	1555.424
20	1592.399	1558.102	1554.832	1566.028	1592.949	1603.366	1584.618	1551.035	1524.900	1512.398
21	1567.533	1547.232	1548.816	1572.352	1595.222	1579.788	1536.925	1505.512	1494.787	1486.788
22	1546.694	1537.336	1550.612	1580.290	1579.008	1535.038	1495.954	1479.679	1464.625	1454.463
23	1530.045	1529.972	1554.795	1575.090	1542.015	1493.856	1469.909	1450.001	1435.177	1435.080
24	1519.918	1530.788	1559.892	1550.140	1499.381	1467.648	1441.102	1424.736	1431.181	1446.694
25	1509.665	1528.346	1555.128	1511.370	1465.568	1437.620	1415.668	1426.145	1453.810	1475.725
26	1499.442	1528.866	1531.586	1472.787	1437.142	1412.409	1416.194	1449.130	1475.405	1482.877
27	1496.576	1527.826	1496.437	1443.544	1410.142	1402.833	1433.998	1464.662	1461.923	1437.644
28	1493.934	1517.941	1459.825	1413.492	1388.910	1413.727	1450.853	1446.452	1406.195	1374.177
29	1490.688	1493.777	1430.117	1390.101	1389.732	1430.069	1437.499	1394.381	1347.292	1319.301
30	1488.771	1462.642	1400.608	1368.905	1403.401	1427.076	1391.510	1337.674	1295.342	1276.432
31	1484.050	1430.165	1375.301	1365.647	1410.886	1393.547	1333.454	1286.776	1259.607	1255.804
32	1468.573	1400.681	1354.589	1373.355	1399.067	1341.253	1282.254	1252.485	1246.718	1259.498
33	1443.447	1373.615	1341.422	1381.389	1361.886	1286.546	1244.487	1237.552	1252.564	1271.293
34	1414.011	1349.426	1344.390	1372.339	1313.733	1244.172	1226.676	1239.922	1259.643	1250.690
35	1382.816	1329.301	1352.123	1344.251	1262.823	1215.027	1225.570	1244.862	1234.542	1204.670
36	1351.748	1314.652	1351.675	1302.065	1222.698	1206.109	1230.927	1221.332	1188.861	1152.424
37	1320.679	1309.906	1335.358	1253.513	1196.086	1205.868	1216.750	1173.693	1136.730	1111.592
38	1294.696	1307.301	1300.403	1212.107	1187.005	1204.797	1173.330	1124.863	1100.094	1095.475
39	1273.421	1301.974	1256.578	1181.945	1185.778	1184.889	1122.360	1088.250	1086.479	1090.336
40	1257.044	1284.593	1210.734	1168.101	1182.211	1140.061	1082.580	1075.101	1074.696	1059.751
41	1247.631	1254.976	1168.554	1162.097	1162.569	1091.878	1062.206	1061.015	1043.664	1015.213
42	1240.920	1217.705	1139.039	1152.249	1120.909	1060.912	1049.395	1031.095	999.616	978.952
43	1230.721	1175.839	1122.740	1135.527	1071.552	1043.573	1026.247	991.478	964.273	957.133
44	1213.201	1133.828	1114.627	1102.724	1038.187	1025.787	994.114	954.570	946.318	950.870
45	1181.794	1097.168	1100.958	1056.577	1016.924	1001.816	959.618	933.005	933.435	930.388
46	1146.137	1074.478	1080.107	1017.638	994.967	970.053	930.817	920.848	906.375	863.850
47	1107.530	1062.291	1046.336	987.071	969.146	935.671	913.635	895.674	842.926	820.575
48	1069.829	1048.071	1003.285	962.623	942.110	904.899	889.840	845.622	810.165	818.925
49	1037.371	1027.861	967.012	938.628	909.337	882.960	852.375	809.591	810.800	817.274
50	1008.968	1001.242	936.222	915.794	880.022	850.199	813.429	797.221	798.092	773.021
51	989.598	967.127	911.423	887.935	849.365	817.710	792.796	783.516	751.976	705.074
52	971.014	930.974	886.406	855.894	812.565	787.736	773.831	747.188	692.324	682.059
53	950.628	896.544	862.616	824.033	785.692	762.652	742.527	695.093	672.452	691.175
54	926.464	865.579	838.839	790.541	762.320	729.601	699.911	670.433	675.221	638.675
55	871.497	838.501	810.395	758.155	735.858	700.697	661.516	665.258	629.214	583.080
56	819.324	804.464	776.920	737.037	701.278	663.444	638.875	622.479	582.070	565.052
57	773.184	763.571	739.032	713.363	669.435	633.488	616.367	578.310	556.830	547.435
58	727.098	723.991	699.488	681.672	639.050	608.109	574.229	547.127	538.004	509.166
59	668.347	684.882	669.502	648.070	610.176	580.632	542.937	526.989	502.051	476.514
60	605.969	633.984	637.817	614.408	585.063	547.423	511.869	493.037	468.147	446.655
61	533.585	578.370	601.241	583.189	560.681	521.004	486.254	463.317	438.971	426.565
62	461.019	509.602	548.318	553.650	535.356	491.834	455.445	433.596	406.857	389.591
63	389.929	442.085	490.189	519.112	512.365	463.135	434.358	396.138	376.726	353.093

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64	350.609	374.078	424.849	475.565	483.769	434.213	409.335	362.252	349.006	330.489
65	334.497	321.487	360.288	426.541	454.944	417.805	378.733	341.468	311.862	302.594
66	318.095	305.212	296.482	368.915	413.827	403.907	343.717	317.557	287.257	271.907
67	302.371	290.146	277.928	308.525	366.363	383.841	321.033	280.165	256.569	240.742
68	280.576	276.586	266.418	257.216	310.671	352.005	315.296	257.325	228.076	217.805
69	257.597	258.322	255.233	243.166	256.448	317.811	297.038	241.546	209.825	200.762
70	228.808	238.813	240.573	230.464	214.788	267.373	288.647	218.470	191.887	186.839
71	200.593	214.063	223.343	219.685	204.668	215.338	265.807	206.681	179.718	176.000
72	172.529	189.602	202.389	205.012	194.832	177.499	226.172	211.209	169.005	165.269
73	154.253	165.432	181.302	188.629	182.450	166.133	184.415	214.788	159.265	154.713
74	145.814	150.529	160.879	170.873	169.017	155.650	148.625	202.237	147.071	144.792
75	137.380	141.661	146.400	153.274	154.610	145.802	138.976	166.260	152.337	135.192
76	128.947	132.792	136.068	138.577	140.826	135.712	129.061	133.904	157.972	125.168
77	121.402	124.056	125.742	127.351	127.804	124.993	119.346	117.587	145.493	114.752
78	114.038	115.725	115.803	116.045	116.656	114.987	110.737	107.696	119.715	107.291
79	107.382	107.702	106.451	105.441	105.677	104.716	101.923	98.265	97.074	106.578
80	100.677	99.964	97.957	95.623	95.158	94.505	92.860	89.354	87.685	100.266
81	93.924	92.214	89.674	87.147	85.467	84.566	82.843	80.600	78.393	81.404
82	86.506	84.445	81.404	78.708	76.803	75.225	73.261	71.616	69.017	66.967
83	78.792	76.580	73.484	70.377	68.134	66.429	64.398	62.651	59.833	58.358
84	71.072	68.714	65.758	62.741	59.954	57.657	56.103	54.023	51.527	49.604
85	63.563	60.861	58.056	55.124	52.331	49.943	47.899	45.650	43.395	41.122
86	56.859	54.036	51.049	47.827	44.731	42.573	40.578	37.646	35.548	33.233
87	50.632	47.627	44.586	41.479	38.353	35.826	33.341	30.730	28.299	25.658
88	44.955	42.035	39.188	36.189	32.967	30.198	27.556	24.648	21.849	19.243
89	39.284	36.455	33.807	31.123	28.185	25.482	23.221	20.204	17.333	14.395
90	33.620	30.887	28.439	26.075	23.415	20.779	18.923	16.202	13.748	11.523
91	31.147	28.662	26.359	24.134	21.704	19.273	17.393	15.029	12.750	10.719
92	28.680	26.443	24.279	22.205	19.993	17.780	15.870	13.990	11.970	10.320
93	26.214	24.225	22.212	20.380	18.524	16.637	14.878	13.421	11.638	10.187
94	24.080	22.453	20.724	19.062	17.448	15.918	14.413	13.089	11.499	10.217
95	22.230	20.894	19.533	18.197	16.849	15.422	13.971	12.956	11.529	10.380
96	20.863	19.896	18.717	17.484	16.263	15.005	13.838	12.889	11.632	10.876
97	19.618	18.893	17.901	16.770	15.858	14.836	13.717	12.829	11.747	11.650
98	18.367	17.883	17.218	16.438	15.604	14.667	13.651	12.799	12.333	12.732
99	17.411	17.369	16.861	16.142	15.356	14.546	13.633	12.938	13.046	13.784
100	17.103	16.994	16.504	15.846	15.162	14.443	13.633	13.639	14.032	14.824
101	16.801	16.625	16.166	15.622	14.999	14.358	14.147	14.461	15.156	15.954
102	16.504	16.311	15.918	15.440	14.860	14.437	14.896	15.513	16.426	17.194
103	16.287	16.075	15.743	15.301	14.721	15.223	15.725	16.674	17.708	18.663
104	16.105	15.942	15.616	15.168	15.392	16.039	16.722	17.786	18.868	20.096
105	16.015	15.839	15.489	15.549	16.226	16.964	17.859	18.868	19.963	21.341
106	15.924	15.743	15.725	16.323	17.061	17.992	19.013	19.993	21.111	22.502
107	15.833	15.936	16.456	17.097	17.955	19.092	20.150	21.178	22.508	23.765
108	16.081	16.583	17.176	17.913	18.868	20.168	21.281	22.417	23.910	24.793
109	16.662	17.224	17.895	18.753	19.805	21.105	22.363	23.656	25.240	25.766
110	17.236	17.859	18.633	19.636	20.742	21.964	23.384	24.860	26.480	26.703
111	17.804	18.524	19.376	20.495	21.619	22.816	24.291	25.996	27.604	27.610
112	18.391	19.183	20.126	21.335	22.405	23.675	25.126	27.042	28.638	28.439
113	18.977	19.854	20.869	22.000	23.161	24.497	25.984	27.900	29.237	29.152
114	19.582	20.513	21.577	22.617	23.868	25.277	26.903	28.698	29.690	29.708
115	20.180	21.160	22.139	23.221	24.527	26.026	27.767	29.466	30.113	30.270
116	20.779	21.673	22.683	23.820	25.144	26.740	28.553	30.240	30.530	30.845
117	21.317	22.133	23.203	24.406	25.748	27.411	29.243	30.820	30.917	31.389
118	21.782	22.598	23.687	24.986	26.347	28.070	29.835	31.086	31.292	31.782
119	22.236	23.064	24.170	25.543	27.000	28.717	30.373	31.359	31.618	32.102

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CANDELA TABULATION - (Cont.)

120	22.689	23.572	24.666	26.063	27.677	29.345	30.905	31.631	31.921	32.332
121	23.167	24.086	25.174	26.564	28.312	29.962	31.365	31.915	32.235	32.562
122	23.650	24.618	25.670	27.127	28.892	30.506	31.661	32.217	32.483	32.797
123	24.158	25.150	26.220	27.701	29.376	31.008	31.957	32.543	32.713	32.979
124	24.660	25.682	26.873	28.299	29.847	31.467	32.229	32.809	32.955	33.178
125	25.156	26.256	27.526	28.886	30.319	31.715	32.441	33.075	33.148	33.402
126	25.651	26.897	28.172	29.478	30.802	31.897	32.628	33.317	33.305	33.523
127	26.220	27.526	28.801	30.053	31.298	32.157	32.858	33.390	33.354	33.583
128	26.776	28.130	29.418	30.627	31.727	32.441	33.063	33.390	33.348	33.644
129	27.314	28.717	30.016	31.219	32.096	32.755	33.281	33.372	33.311	33.650
130	27.846	29.291	30.597	31.818	32.489	33.118	33.601	33.414	33.299	33.614
131	28.384	29.853	31.171	32.229	32.900	33.499	33.934	33.462	33.245	33.607
132	28.934	30.385	31.739	32.604	33.305	33.873	34.043	33.523	33.233	33.638
133	29.521	30.905	32.151	32.967	33.686	34.285	34.188	33.644	33.287	33.704
134	30.125	31.419	32.465	33.305	34.049	34.714	34.345	33.783	33.456	33.825
135	30.736	31.788	32.773	33.626	34.393	35.077	34.436	33.904	33.656	34.000
136	31.334	32.108	33.069	33.928	34.738	35.107	34.526	34.025	33.898	34.200
137	31.727	32.441	33.354	34.224	35.089	35.083	34.569	34.115	34.115	34.430
138	32.132	32.785	33.620	34.502	35.409	34.986	34.581	34.200	34.303	34.641
139	32.537	33.154	33.904	34.780	35.294	34.871	34.526	34.224	34.466	34.817
140	32.942	33.541	34.212	35.052	35.113	34.750	34.436	34.254	34.611	34.962
141	33.348	33.934	34.532	35.216	34.901	34.593	34.303	34.279	34.678	35.052
142	33.753	34.333	34.883	34.998	34.678	34.399	34.146	34.266	34.690	35.113
143	34.152	34.726	35.252	34.768	34.454	34.182	33.952	34.230	34.665	35.083
144	34.551	35.119	35.083	34.563	34.224	33.952	33.722	34.176	34.611	35.034
145	34.956	35.403	34.907	34.357	33.994	33.710	33.638	34.091	34.508	34.944
146	35.349	35.167	34.708	34.176	33.759	33.468	33.571	34.000	34.406	34.798
147	35.252	34.919	34.490	34.000	33.547	33.221	33.505	33.904	34.297	34.647
148	34.938	34.653	34.248	33.819	33.341	33.063	33.450	33.831	34.194	34.514
149	34.617	34.369	34.000	33.620	33.160	33.057	33.402	33.759	34.103	34.393
150	34.285	34.079	33.753	33.390	32.985	33.075	33.366	33.698	34.025	34.285
151	33.934	33.759	33.499	33.142	32.912	33.118	33.366	33.656	33.952	34.188
152	33.565	33.426	33.215	32.876	32.936	33.160	33.372	33.632	33.910	34.097
153	33.184	33.094	32.906	32.695	32.936	33.190	33.408	33.638	33.880	34.037
154	32.797	32.737	32.580	32.701	32.930	33.190	33.432	33.656	33.855	33.988
155	32.398	32.362	32.362	32.670	32.936	33.172	33.426	33.662	33.837	33.952
156	31.969	31.969	32.320	32.628	32.918	33.154	33.384	33.638	33.801	33.916
157	31.522	31.891	32.253	32.574	32.864	33.136	33.366	33.583	33.740	33.861
158	31.352	31.812	32.175	32.507	32.803	33.075	33.329	33.529	33.650	33.783
159	31.250	31.709	32.084	32.423	32.725	32.991	33.257	33.456	33.583	33.680
160	31.147	31.588	31.981	32.314	32.622	32.900	33.148	33.341	33.487	33.601
161	31.032	31.461	31.860	32.205	32.501	32.785	33.027	33.202	33.354	33.481
162	30.911	31.334	31.721	32.072	32.374	32.646	32.882	33.057	33.202	33.323
163	30.802	31.195	31.570	31.915	32.229	32.489	32.701	32.888	33.039	33.160
164	30.687	31.044	31.419	31.745	32.054	32.314	32.507	32.689	32.846	32.973
165	30.573	30.905	31.250	31.576	31.854	32.096	32.308	32.483	32.622	32.749
166	30.446	30.772	31.068	31.395	31.649	31.872	32.072	32.247	32.392	32.507
167	30.313	30.633	30.905	31.165	31.425	31.643	31.824	31.993	32.132	32.247
168	30.155	30.470	30.730	30.953	31.177	31.395	31.582	31.727	31.860	31.963
169	30.004	30.276	30.530	30.748	30.941	31.123	31.304	31.461	31.582	31.673
170	29.853	30.077	30.319	30.536	30.718	30.875	31.020	31.153	31.274	31.371
171	29.702	29.895	30.095	30.295	30.476	30.627	30.760	30.869	30.966	31.044
172	29.563	29.726	29.889	30.047	30.210	30.361	30.488	30.591	30.675	30.742
173	29.436	29.563	29.696	29.823	29.950	30.071	30.186	30.282	30.367	30.428
174	29.315	29.418	29.521	29.623	29.720	29.811	29.895	29.968	30.035	30.089
175	29.188	29.273	29.357	29.436	29.509	29.575	29.642	29.696	29.738	29.775

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CANDELA TABULATION - (Cont.)

176	29.073	29.140	29.194	29.255	29.315	29.363	29.412	29.448	29.484	29.509
177	28.971	29.013	29.055	29.091	29.128	29.158	29.194	29.218	29.243	29.261
178	28.868	28.892	28.922	28.946	28.964	28.989	29.001	29.019	29.031	29.037
179	28.771	28.783	28.795	28.807	28.813	28.825	28.831	28.838	28.844	28.844
180	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801	28.801

Vert. Horizontal Angles
Angles

	350	355	360
0	1697.635	1697.635	1697.635
1	1698.294	1698.505	1698.693
2	1699.860	1700.023	1700.246
3	1700.246	1701.208	1701.963
4	1714.804	1715.989	1716.860
5	1719.387	1720.548	1721.442
6	1733.382	1736.006	1737.784
7	1744.277	1745.649	1746.834
8	1729.235	1728.667	1729.157
9	1703.094	1700.531	1700.246
10	1661.809	1656.500	1654.868
11	1628.467	1626.925	1627.185
12	1613.432	1612.906	1613.698
13	1603.795	1604.115	1605.288
14	1599.962	1603.003	1605.421
15	1615.832	1623.467	1628.413
16	1636.852	1640.987	1644.137
17	1631.865	1631.804	1633.322
18	1594.739	1583.766	1580.731
19	1539.222	1529.089	1526.665
20	1507.416	1504.774	1505.125
21	1477.666	1470.592	1469.196
22	1447.280	1443.103	1443.200
23	1440.376	1446.724	1450.878
24	1463.525	1478.476	1486.946
25	1490.053	1498.166	1503.916
26	1478.530	1465.931	1462.455
27	1415.517	1401.322	1397.616
28	1357.394	1345.086	1341.132
29	1304.580	1294.931	1291.981
30	1269.655	1266.650	1266.257
31	1259.075	1267.255	1272.792
32	1273.639	1284.285	1290.675
33	1275.513	1271.359	1270.404
34	1237.341	1229.125	1226.332
35	1188.081	1178.070	1173.505
36	1138.054	1132.534	1131.658
37	1107.614	1108.219	1109.676
38	1102.312	1109.301	1114.742
39	1086.328	1081.697	1076.969
40	1039.027	1031.385	1026.622
41	999.416	995.759	993.449
42	970.228	971.274	970.990
43	961.952	967.211	973.263
44	951.632	950.326	949.867
45	895.287	880.759	869.527
46	833.289	830.762	830.188

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CANDELA TABULATION - (Cont.)

47	820.406	828.175	830.738
48	833.555	840.997	851.462
49	812.504	795.752	787.095
50	732.038	719.856	713.786
51	682.246	685.287	682.869
52	694.791	705.503	719.717
53	678.371	659.255	652.054
54	609.959	599.095	600.763
55	574.985	576.508	580.214
56	567.247	558.408	555.137
57	527.539	519.480	524.293
58	498.810	495.153	502.408
59	466.231	445.917	443.965
60	437.883	439.376	438.953
61	410.811	394.385	389.331
62	364.755	360.336	362.682
63	350.512	344.031	340.391
64	302.467	296.204	297.087
65	291.906	276.737	273.557
66	251.346	247.283	247.749
67	230.755	223.584	227.097
68	212.781	209.395	210.574
69	198.791	194.499	194.668
70	186.700	183.430	183.895
71	175.619	173.575	173.660
72	163.957	162.427	162.500
73	152.561	152.113	151.581
74	142.072	141.576	141.382
75	132.163	131.093	130.470
76	122.176	120.235	120.005
77	111.965	110.151	109.679
78	102.092	99.934	98.997
79	92.637	90.757	89.040
80	83.580	80.938	78.937
81	73.998	70.897	69.252
82	66.048	61.937	60.015
83	60.136	53.310	50.747
84	48.196	44.623	41.836
85	38.819	36.594	32.840
86	30.736	28.439	23.947
87	23.330	20.386	15.120
88	16.698	13.772	7.116
89	11.874	9.625	2.225
90	9.576	7.950	1.590
91	9.050	7.611	1.898
92	8.875	7.569	2.309
93	8.941	7.998	3.041
94	9.304	8.712	4.184
95	10.036	9.480	5.677
96	11.076	10.217	7.206
97	12.206	11.354	8.579
98	13.252	12.533	10.175
99	14.286	13.488	11.608
100	15.344	14.449	12.901
101	16.583	15.833	14.419
102	17.877	17.405	16.075

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CANDELA TABULATION - (Cont.)

103	19.068	19.001	17.732
104	20.198	20.307	19.195
105	21.141	21.365	20.440
106	22.139	22.423	21.692
107	23.288	23.608	23.010
108	24.587	24.896	24.376
109	25.803	26.141	25.664
110	26.994	27.350	26.982
111	28.185	28.541	28.263
112	29.285	29.660	29.478
113	30.192	30.573	30.567
114	30.941	31.280	31.365
115	31.504	31.836	31.981
116	31.939	32.350	32.543
117	32.374	32.816	33.051
118	32.689	33.172	33.396
119	32.967	33.474	33.710
120	33.088	33.638	33.994
121	33.202	33.716	34.121
122	33.335	33.807	34.206
123	33.517	33.994	34.327
124	33.728	34.188	34.569
125	33.898	34.412	34.853
126	34.049	34.551	35.016
127	34.133	34.611	35.034
128	34.182	34.611	35.022
129	34.212	34.611	34.980
130	34.164	34.581	34.944
131	34.152	34.526	34.907
132	34.152	34.496	34.859
133	34.152	34.490	34.871
134	34.266	34.532	34.907
135	34.418	34.653	35.022
136	34.581	34.786	35.143
137	34.756	34.944	35.282
138	34.962	35.125	35.457
139	35.137	35.318	35.627
140	35.270	35.470	35.784
141	35.349	35.560	35.899
142	35.379	35.584	35.893
143	35.379	35.584	35.875
144	35.312	35.530	35.814
145	35.216	35.439	35.723
146	35.077	35.300	35.584
147	34.895	35.119	35.373
148	34.744	34.931	35.191
149	34.605	34.780	35.034
150	34.484	34.653	34.901
151	34.375	34.545	34.798
152	34.279	34.436	34.684
153	34.194	34.339	34.593
154	34.127	34.260	34.514
155	34.079	34.200	34.454
156	34.031	34.140	34.375
157	33.970	34.067	34.285
158	33.898	33.988	34.200

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CANDELA TABULATION - (Cont.)

159	33.783	33.880	34.091
160	33.692	33.765	33.952
161	33.577	33.656	33.843
162	33.426	33.505	33.698
163	33.257	33.335	33.523
164	33.069	33.142	33.329
165	32.846	32.918	33.106
166	32.592	32.658	32.828
167	32.332	32.386	32.550
168	32.042	32.090	32.259
169	31.745	31.788	31.951
170	31.443	31.485	31.643
171	31.105	31.141	31.310
172	30.790	30.820	30.972
173	30.470	30.500	30.645
174	30.131	30.155	30.301
175	29.799	29.817	29.950
176	29.527	29.539	29.672
177	29.273	29.279	29.412
178	29.043	29.049	29.182
179	28.850	28.850	28.983
180	28.801	28.801	28.801

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	620.26	N.A.	14.40
0-30	1304.2	N.A.	30.20
0-40	2114.17	N.A.	49.00
0-60	3594.76	N.A.	83.40
0-80	4102.43	N.A.	95.10
0-90	4163.06	N.A.	96.50
10-90	4000.89	N.A.	92.80
20-40	1493.9	N.A.	34.60
20-50	2307.4	N.A.	53.50
40-70	1833.61	N.A.	42.50
60-80	507.67	N.A.	11.80
70-80	154.65	N.A.	3.60
80-90	60.63	N.A.	1.40
90-110	33.79	N.A.	0.80
90-120	55.72	N.A.	1.30
90-130	79.58	N.A.	1.80
90-150	123.45	N.A.	2.90
90-180	149.29	N.A.	3.50
110-180	115.50	N.A.	2.70
0-180	4312.35	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	162.17
10-20	458.10
20-30	683.94
30-40	809.97
40-50	813.49
50-60	667.09
60-70	353.03
70-80	154.65
80-90	60.63
90-100	17.23
100-110	16.57
110-120	21.93
120-130	23.86
130-140	23.44
140-150	20.42
150-160	14.54
160-170	8.52
170-180	2.78

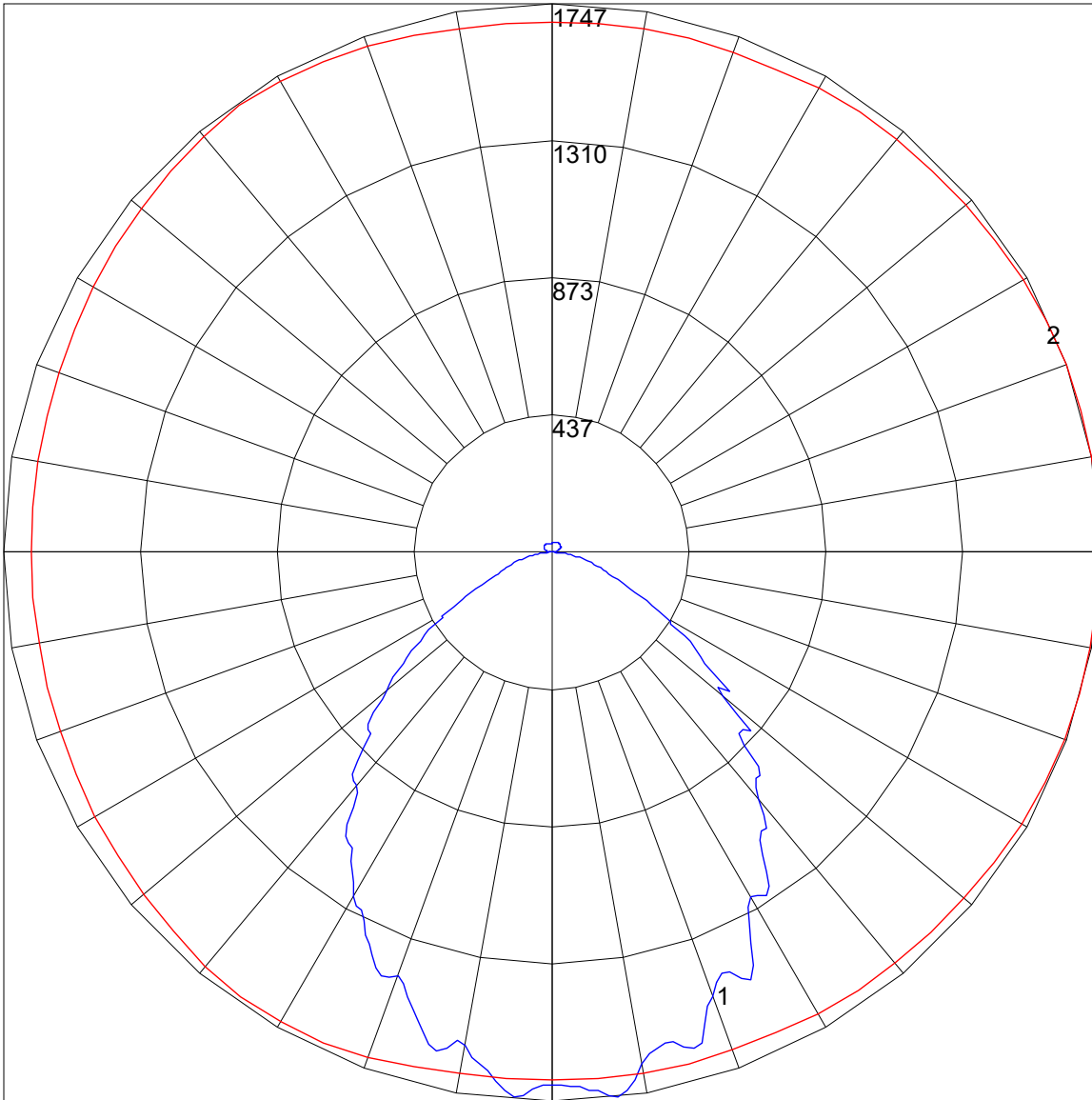
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBL48LWCB-40.IES

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	97	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	75	68	68	89	80	73	68	77	71	66	74	69	65	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 = 1746.834 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.)