



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LSL22HFA-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
[TEST] s14150095e-01
[TESTLAB] LEADING TESTING LABORATORIES
[TESTDATE] 2017-07-15
[ISSUEDATE] 2017-07-16
[NEARFIELD]
[LAMPPOSITION] 0,0
[LUMCAT] LSL22HFA-40
[LUMINAIRE] 2x2 Recessed Troffer with flat frosted acrylic lens, 4000K High Power
[MANUFAC] LAMAR LIGHTING CO., INC.
[_SEARCH_SOURCE] LED
[_SEARCH_APPLICATION] Indoor
[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	36.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.79 ft
Luminous Width (90-270)	1.79 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4696	4655	4460
55	3948	3848	3399
65	3199	2885	2740
75	3052	2625	2662
85	3311	3096	2891

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CANDELA TABULATION

	0	10	20	30	40	50	60	70	80	90
0.0	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658
0.5	1551.833	1552.009	1551.848	1551.987	1551.980	1552.023	1551.826	1551.826	1551.840	1551.840
1.0	1552.162	1552.184	1551.855	1552.170	1552.170	1552.206	1552.001	1552.001	1552.016	1552.016
1.5	1552.016	1552.184	1552.031	1552.345	1552.345	1552.214	1552.177	1552.009	1552.192	1551.848
2.0	1552.009	1552.184	1552.031	1552.353	1552.353	1552.214	1552.184	1552.009	1551.694	1551.679
2.5	1551.848	1552.016	1551.862	1552.353	1552.353	1552.375	1552.009	1551.848	1551.504	1551.175
3.0	1551.672	1551.672	1551.687	1552.031	1552.184	1552.053	1551.687	1551.511	1551.167	1550.648
3.5	1550.999	1551.182	1551.006	1551.679	1551.679	1551.533	1551.167	1551.160	1550.640	1549.952
4.0	1550.121	1550.487	1550.509	1550.984	1550.984	1550.714	1550.633	1550.472	1549.982	1549.287
4.5	1549.462	1549.945	1549.652	1550.113	1550.106	1550.004	1549.660	1549.426	1548.935	1548.423
5.0	1548.760	1548.913	1549.111	1549.294	1549.294	1549.140	1548.774	1548.284	1547.889	1547.033
5.5	1547.559	1548.211	1548.247	1548.255	1548.240	1547.918	1547.552	1547.216	1546.330	1545.810
6.0	1546.506	1547.347	1547.377	1547.216	1547.201	1547.040	1546.169	1546.008	1545.159	1544.325
6.5	1545.298	1546.191	1545.993	1546.008	1545.993	1545.664	1545.123	1544.793	1543.791	1542.934
7.0	1544.237	1544.976	1544.844	1544.954	1544.413	1544.186	1543.718	1543.227	1542.225	1541.361
7.5	1543.095	1543.915	1543.461	1543.725	1542.942	1542.451	1542.078	1541.471	1540.300	1539.619
8.0	1541.544	1542.342	1542.049	1542.093	1541.207	1540.688	1540.337	1539.671	1538.712	1537.863
8.5	1539.810	1540.790	1540.315	1540.351	1539.458	1538.953	1538.427	1537.439	1536.604	1535.777
9.0	1538.046	1538.961	1538.551	1538.251	1537.709	1537.365	1536.326	1535.316	1534.490	1533.641
9.5	1536.158	1537.387	1536.831	1536.517	1535.821	1535.287	1534.072	1533.077	1532.258	1531.387
10.0	1534.226	1535.163	1534.746	1534.424	1533.728	1533.202	1531.979	1530.816	1529.989	1528.972
10.5	1532.301	1533.048	1532.440	1532.309	1531.453	1530.574	1529.213	1528.364	1527.376	1526.359
11.0	1530.326	1531.109	1530.318	1529.843	1529.169	1527.925	1526.732	1525.891	1524.742	1523.388
11.5	1527.559	1528.818	1527.698	1527.545	1526.886	1525.459	1524.105	1523.088	1521.624	1520.571
12.0	1525.108	1526.374	1525.430	1524.954	1524.274	1522.854	1521.332	1519.971	1518.346	1517.453
12.5	1522.495	1523.586	1522.964	1522.327	1521.668	1520.241	1518.544	1516.838	1515.024	1514.182
13.0	1519.714	1520.666	1520.373	1519.378	1518.895	1517.146	1515.104	1513.692	1511.906	1510.728
13.5	1517.102	1518.031	1517.263	1516.582	1515.770	1514.006	1511.782	1510.201	1508.445	1507.054
14.0	1514.160	1515.221	1514.585	1513.450	1512.645	1510.340	1508.181	1506.432	1504.764	1503.549
14.5	1511.006	1512.096	1511.284	1510.472	1509.316	1506.820	1504.800	1502.554	1500.732	1499.692
15.0	1507.669	1508.950	1507.962	1507.310	1505.810	1503.490	1500.958	1498.873	1497.102	1495.843
15.5	1504.215	1505.320	1504.354	1503.842	1502.166	1499.670	1497.131	1495.053	1492.923	1491.562
16.0	1500.380	1501.822	1500.849	1500.175	1498.302	1495.741	1493.260	1490.845	1488.913	1487.362
16.5	1496.882	1498.134	1497.190	1496.407	1494.460	1491.562	1489.147	1486.747	1484.705	1483.161
17.0	1492.931	1494.226	1493.494	1492.396	1490.508	1487.193	1484.932	1482.576	1480.314	1478.770
17.5	1488.657	1490.457	1489.367	1488.291	1486.059	1482.905	1480.322	1478.126	1475.960	1474.116
18.0	1484.456	1486.257	1485.313	1484.098	1481.493	1478.456	1475.689	1473.209	1470.896	1469.206
18.5	1480.973	1481.917	1481.149	1480.095	1476.999	1474.101	1471.138	1468.371	1465.708	1464.668
19.0	1476.714	1477.716	1476.955	1475.506	1472.389	1469.228	1466.278	1463.622	1461.127	1459.641
19.5	1472.111	1473.084	1472.345	1470.911	1467.618	1464.793	1461.331	1458.821	1456.165	1454.811
20.0	1467.713	1468.342	1467.779	1465.825	1462.729	1459.692	1456.062	1453.223	1450.794	1449.125
20.5	1463.000	1463.622	1462.737	1460.783	1457.519	1454.460	1450.523	1447.800	1445.547	1443.519
21.0	1457.892	1458.873	1457.782	1455.192	1452.250	1448.825	1445.093	1442.363	1439.934	1438.207
21.5	1452.623	1453.472	1452.689	1449.864	1446.974	1443.366	1439.948	1437.058	1434.335	1432.447
22.0	1447.208	1448.049	1447.471	1444.676	1441.566	1437.804	1434.262	1431.328	1428.437	1426.571
22.5	1441.822	1442.693	1441.902	1439.260	1436.033	1432.272	1428.415	1425.422	1422.400	1420.636
23.0	1435.931	1436.882	1435.982	1433.472	1429.871	1426.505	1422.407	1419.333	1416.384	1414.628
23.5	1429.959	1431.079	1430.003	1427.764	1424.127	1420.702	1416.538	1413.216	1410.274	1408.510
24.0	1423.980	1424.983	1424.163	1421.441	1417.972	1414.057	1410.171	1407.068	1403.695	1401.807
24.5	1417.804	1418.807	1417.416	1415.074	1411.613	1407.786	1403.673	1400.373	1397.153	1395.682
25.0	1411.371	1412.850	1411.430	1408.949	1405.180	1401.302	1397.036	1394.072	1390.479	1389.191
25.5	1405.305	1406.432	1404.983	1402.348	1398.411	1394.994	1390.735	1386.988	1383.702	1382.421
26.0	1398.536	1399.794	1398.214	1395.630	1391.657	1388.269	1383.402	1379.904	1376.889	1375.089
26.5	1391.554	1392.674	1391.357	1388.620	1384.471	1380.702	1376.311	1373.076	1369.652	1367.837

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CANDELA TABULATION - (Cont.)

27.0	1384.353	1385.678	1384.639	1381.455	1377.474	1373.735	1369.271	1365.846	1362.641	1360.497
27.5	1377.189	1378.514	1377.504	1374.116	1370.142	1366.527	1361.938	1358.375	1355.447	1352.827
28.0	1369.505	1371.137	1369.798	1366.563	1362.626	1358.953	1353.903	1350.859	1347.266	1345.129
28.5	1361.551	1363.534	1362.143	1359.260	1355.191	1351.013	1346.366	1342.904	1339.143	1337.269
29.0	1353.684	1355.499	1354.664	1351.108	1347.288	1343.021	1338.557	1334.840	1331.269	1329.483
29.5	1345.275	1347.346	1346.424	1343.014	1338.923	1335.103	1330.727	1326.344	1323.058	1320.980
30.0	1336.838	1338.887	1337.687	1335.096	1330.654	1326.629	1322.611	1318.316	1314.708	1312.454
30.5	1328.180	1329.725	1329.285	1326.453	1322.736	1318.228	1313.962	1309.717	1305.897	1303.841
31.0	1319.333	1321.360	1320.679	1318.104	1314.174	1309.834	1305.319	1300.709	1297.108	1294.942
31.5	1310.493	1312.095	1311.942	1308.949	1305.187	1301.184	1296.325	1291.576	1288.144	1285.978
32.0	1301.345	1303.160	1302.348	1299.948	1296.362	1291.978	1286.900	1282.699	1279.296	1276.493
32.5	1291.978	1293.581	1293.252	1290.690	1286.731	1282.882	1277.840	1273.398	1270.061	1267.522
33.0	1281.989	1284.133	1283.694	1281.148	1277.401	1273.164	1268.700	1264.133	1260.357	1258.389
33.5	1271.920	1274.591	1273.530	1271.642	1268.224	1263.658	1258.820	1253.976	1250.690	1248.246
34.0	1262.172	1264.426	1263.328	1261.484	1258.257	1253.486	1248.641	1244.397	1240.694	1238.110
34.5	1251.707	1254.181	1253.471	1251.942	1248.341	1243.965	1239.098	1234.217	1230.134	1228.129
35.0	1241.616	1243.701	1243.160	1241.104	1238.381	1233.544	1228.648	1223.577	1219.640	1217.210
35.5	1231.019	1233.098	1232.402	1230.712	1227.851	1223.218	1217.876	1212.746	1208.875	1206.416
36.0	1219.962	1222.384	1221.733	1220.174	1216.742	1212.358	1206.921	1202.135	1197.993	1195.308
36.5	1208.985	1211.436	1210.734	1208.875	1205.838	1201.301	1196.252	1190.346	1186.753	1184.118
37.0	1197.649	1199.918	1199.384	1197.840	1194.693	1190.170	1184.294	1178.959	1175.015	1172.761
37.5	1185.889	1188.546	1187.960	1186.380	1183.182	1178.418	1172.336	1167.141	1163.064	1160.708
38.0	1174.466	1176.756	1176.720	1174.905	1171.700	1166.833	1160.898	1155.783	1151.202	1148.714
38.5	1162.494	1164.930	1164.667	1163.160	1159.559	1155.059	1148.758	1143.306	1138.593	1135.746
39.0	1150.097	1152.885	1152.658	1151.275	1147.894	1142.955	1136.456	1130.558	1125.421	1122.632
39.5	1137.451	1140.759	1140.605	1138.871	1135.607	1130.177	1123.284	1117.524	1112.307	1109.848
40.0	1125.582	1128.040	1128.011	1125.896	1122.698	1117.378	1110.763	1104.535	1098.820	1096.346
40.5	1112.739	1115.358	1115.424	1113.214	1109.767	1104.711	1097.539	1090.938	1084.769	1081.783
41.0	1099.559	1102.698	1102.318	1100.657	1097.027	1091.268	1083.664	1076.053	1069.957	1066.877
41.5	1086.760	1089.672	1089.453	1086.774	1083.393	1077.532	1069.409	1062.193	1056.017	1052.658
42.0	1073.412	1076.397	1076.273	1073.646	1069.855	1064.118	1056.222	1048.552	1041.190	1037.751
42.5	1059.829	1062.661	1062.603	1060.232	1056.412	1050.250	1041.630	1033.097	1025.647	1021.710
43.0	1046.533	1049.343	1048.794	1046.364	1042.149	1036.185	1027.111	1017.458	1009.518	1005.537
43.5	1031.823	1035.321	1034.560	1031.882	1027.659	1020.802	1011.750	1002.237	994.187	989.877
44.0	1017.985	1021.256	1020.576	1017.875	1013.148	1006.752	997.648	986.605	977.956	973.477
44.5	1003.510	1006.759	1006.254	1003.056	998.490	992.262	982.171	970.791	960.927	956.192
45.0	989.408	992.335	991.823	989.174	984.212	977.063	966.444	954.889	943.634	939.741
45.5	973.909	977.590	976.763	973.777	969.057	961.907	950.872	937.890	926.744	922.112
46.0	959.792	962.654	961.973	959.156	954.275	946.949	935.570	921.526	909.620	904.695
46.5	944.505	947.198	946.452	943.759	939.368	931.581	919.024	903.751	891.376	885.932
47.0	929.123	931.874	931.318	928.537	923.773	915.775	902.236	886.239	872.115	867.146
47.5	913.821	916.667	915.833	912.745	908.544	900.685	886.715	868.756	854.106	848.500
48.0	898.614	901.292	900.114	897.765	893.169	885.324	870.300	850.593	835.606	829.466
48.5	882.807	885.822	884.212	881.885	878.167	869.356	852.445	832.496	816.506	810.007
49.0	867.556	869.283	868.383	865.888	862.485	852.847	835.086	813.710	796.557	791.069
49.5	850.842	853.162	852.218	849.883	846.495	836.667	817.494	794.735	777.508	771.142
50.0	835.079	837.245	835.994	834.918	831.186	820.926	800.114	775.620	757.925	751.866
50.5	819.001	821.255	819.814	818.855	815.701	803.465	781.299	756.462	739.096	732.927
51.0	803.268	804.578	803.648	803.348	799.982	786.817	763.011	737.515	720.669	714.478
51.5	786.048	788.749	788.061	787.958	784.416	769.707	744.753	718.928	701.664	696.147
52.0	770.834	772.525	771.903	772.408	767.936	752.656	725.960	699.806	683.604	677.859
52.5	754.947	755.847	756.162	756.506	752.012	735.005	706.970	681.986	666.180	660.391
53.0	738.093	739.403	739.689	740.596	735.320	717.047	688.938	664.233	648.953	643.816
53.5	721.789	723.399	724.167	725.016	719.345	699.447	671.112	646.677	632.085	626.875
54.0	706.180	706.560	708.353	709.202	703.355	681.716	652.458	629.121	615.832	610.841
54.5	690.212	691.317	692.956	693.549	686.626	663.552	634.602	613.139	600.186	595.693

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CANDELA TABULATION - (Cont.)

55.0	674.632	675.678	677.318	678.240	669.678	645.711	617.859	597.068	585.111	580.903
55.5	658.488	660.025	661.752	662.338	652.978	627.877	601.415	580.983	569.743	565.425
56.0	642.740	643.377	646.179	646.516	635.773	610.504	583.962	565.242	555.034	551.104
56.5	627.416	628.638	630.870	630.365	618.891	592.765	567.869	550.650	540.786	536.951
57.0	612.443	613.775	615.737	615.019	601.847	576.197	552.597	536.300	526.611	523.720
57.5	597.500	598.869	600.361	599.059	585.213	559.593	537.712	521.634	512.802	508.535
58.0	582.381	583.179	585.147	583.720	568.272	543.588	522.183	505.023	500.002	496.058
58.5	567.855	569.121	570.643	568.001	552.238	527.847	504.701	492.282	487.210	483.595
59.0	553.760	554.456	555.963	552.524	535.553	513.175	491.638	479.666	474.419	471.126
59.5	539.527	540.120	540.778	536.790	519.410	498.831	478.722	467.049	461.627	458.663
60.0	525.623	525.469	526.259	521.056	513.080	484.503	465.805	454.440	448.835	446.647
60.5	512.721	513.241	512.341	508.630	496.417	470.174	452.889	442.593	437.104	435.384
61.0	499.915	500.229	498.846	493.592	479.263	455.846	440.324	430.562	425.988	424.210
61.5	487.108	487.159	485.359	478.429	462.110	441.510	427.620	418.721	414.477	413.277
62.0	474.294	474.097	471.865	463.273	444.964	428.308	415.201	407.481	403.946	402.834
62.5	461.488	461.034	458.378	448.110	431.213	415.436	403.654	396.665	393.386	392.377
63.0	448.681	447.971	444.883	434.528	418.143	403.697	392.333	385.842	383.522	382.322
63.5	436.694	435.838	432.091	420.756	405.220	391.352	380.924	375.413	373.467	372.750
64.0	424.905	423.851	419.834	407.905	392.816	379.651	370.144	365.666	364.107	363.514
64.5	413.833	412.464	407.225	395.516	380.712	368.212	360.082	355.977	354.784	354.228
65.0	402.827	401.290	396.043	383.353	368.827	357.601	349.764	346.266	345.600	345.022
65.5	391.930	390.342	384.495	371.557	357.784	346.829	339.811	337.184	336.752	336.328
66.0	381.407	379.782	373.555	360.185	346.654	336.269	330.078	328.359	328.139	327.876
66.5	371.345	369.318	362.643	349.413	336.152	326.207	321.180	319.643	319.701	319.423
67.0	361.509	359.438	352.596	338.970	326.010	316.716	311.696	311.147	311.432	311.088
67.5	351.732	349.749	342.446	329.039	316.123	307.290	303.177	303.053	303.573	303.309
68.0	342.409	340.419	333.028	319.270	306.646	298.282	294.776	295.128	295.918	295.698
68.5	333.532	331.140	323.441	310.108	297.535	289.537	286.807	287.451	288.212	288.176
69.0	324.707	322.263	314.828	301.209	288.834	281.011	278.604	280.009	280.843	280.784
69.5	316.013	313.562	305.827	292.464	280.140	272.669	270.993	272.793	273.744	273.854
70.0	307.788	305.329	297.594	284.312	271.966	264.809	263.485	265.592	266.829	266.800
70.5	299.760	297.323	289.544	276.584	264.165	257.316	256.540	258.757	260.001	260.060
71.0	292.120	289.427	281.985	268.454	256.723	249.983	249.507	252.288	253.613	253.642
71.5	284.575	281.780	274.359	261.370	249.463	242.855	243.002	246.002	247.290	247.451
72.0	277.001	274.293	266.939	254.066	242.284	235.962	236.503	239.547	240.879	240.967
72.5	269.720	267.034	259.687	247.224	235.523	229.456	230.195	233.298	234.769	234.849
73.0	262.665	259.891	252.749	240.199	229.002	223.199	224.026	227.480	229.068	228.988
73.5	255.808	252.691	245.885	233.876	222.760	217.067	218.420	221.757	223.148	223.243
74.0	248.936	245.892	239.284	227.509	216.598	211.285	212.646	215.947	217.213	217.110
74.5	242.160	239.174	232.705	221.282	210.583	205.607	206.975	210.232	211.271	211.132
75.0	235.332	232.339	225.870	214.944	204.853	200.074	201.384	204.502	205.541	205.255
75.5	228.666	225.570	219.364	209.156	199.211	194.622	196.115	198.669	199.511	199.225
76.0	222.123	218.977	212.990	203.045	193.759	189.331	190.568	192.705	193.364	192.968
76.5	215.493	212.390	206.580	197.242	188.351	184.179	184.948	186.763	187.429	187.055
77.0	208.541	205.731	199.994	191.175	183.045	179.086	179.445	181.069	181.421	180.967
77.5	201.794	199.189	193.568	185.548	177.725	173.839	173.824	174.871	175.295	174.783
78.0	195.003	192.522	187.187	179.430	172.412	168.497	168.007	168.709	168.980	168.431
78.5	188.058	185.680	181.750	173.634	167.048	163.074	162.079	162.533	162.767	162.474
79.0	180.725	181.113	174.922	167.304	161.655	157.439	156.115	156.583	156.517	156.064
79.5	173.656	174.527	167.721	161.589	156.217	151.834	150.180	150.151	150.165	149.756
80.0	166.485	165.482	161.194	155.566	150.575	146.075	144.055	143.813	143.733	143.374
80.5	159.064	158.259	154.600	149.302	144.648	140.015	137.835	137.571	137.425	137.117
81.0	151.497	151.234	147.860	142.891	138.735	133.905	131.504	131.168	130.780	130.582
81.5	143.989	145.628	141.157	136.678	132.258	127.641	125.109	124.501	124.084	123.938
82.0	136.056	138.098	134.249	130.151	125.694	121.245	118.442	117.622	117.351	117.081
82.5	127.985	129.455	127.187	123.345	118.683	114.410	111.614	110.853	110.524	110.319

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83.0	119.942	122.803	120.205	116.276	112.009	107.736	105.050	104.142	103.623	103.623
83.5	111.819	116.195	113.151	109.002	104.640	100.952	98.230	97.007	96.627	96.685
84.0	103.484	108.197	105.891	101.537	97.607	93.802	90.912	90.033	89.499	89.631
84.5	94.724	100.000	98.398	93.722	89.785	86.411	83.681	82.847	82.467	82.386
85.0	85.987	91.709	90.568	85.752	82.042	78.734	76.407	75.449	75.083	75.068
85.5	77.300	82.854	82.306	77.534	73.714	71.094	68.892	67.933	67.435	67.626
86.0	68.562	75.946	73.780	69.272	65.774	63.074	61.127	60.498	59.891	60.154
86.5	60.125	67.084	64.998	60.769	57.446	55.017	53.238	52.960	52.448	52.646
87.0	51.277	57.717	55.836	52.016	48.533	47.047	45.701	45.562	45.101	45.298
87.5	42.071	49.243	47.157	43.125	40.271	39.093	38.163	38.163	37.746	37.958
88.0	32.836	38.756	37.205	34.234	32.024	31.131	30.626	30.758	30.399	30.619
88.5	23.608	28.255	27.201	25.342	23.769	23.169	23.088	23.359	23.052	23.286
89.0	14.373	17.753	17.197	16.451	15.514	15.207	15.551	15.961	15.697	15.946
89.5	5.137	7.252	7.194	7.559	8.291	8.591	9.045	9.301	9.177	9.499
90.0	3.783	5.781	5.635	2.151	2.832	3.183	3.747	3.937	4.003	4.383
90.5	2.788	4.574	4.413	0.776	2.261	2.356	2.649	2.832	2.949	3.191
91.0	1.793	3.359	3.191	0.732	1.712	1.712	1.851	1.947	2.005	2.173
91.5	0.798	2.144	1.969	0.739	1.164	1.068	1.054	1.054	1.068	1.156
92.0	0.746	0.937	0.746	0.732	0.622	0.424	0.256	0.168	0.124	0.146
92.5	0.798	0.944	0.732	0.703	0.578	0.395	0.205	0.124	0.110	0.110
93.0	0.798	0.966	0.783	0.724	0.571	0.395	0.205	0.132	0.117	0.117
93.5	0.834	1.010	0.842	0.754	0.593	0.402	0.227	0.139	0.124	0.124
94.0	0.834	1.010	0.878	0.776	0.622	0.410	0.241	0.161	0.139	0.139
94.5	0.834	1.010	0.944	0.805	0.585	0.432	0.256	0.176	0.154	0.146
95.0	0.849	1.054	0.966	0.827	0.600	0.410	0.263	0.190	0.161	0.154
95.5	0.849	1.083	0.966	0.812	0.622	0.417	0.256	0.198	0.168	0.161
96.0	0.864	1.112	0.995	0.805	0.659	0.432	0.256	0.198	0.168	0.161
96.5	0.885	1.156	1.017	0.798	0.659	0.446	0.263	0.198	0.176	0.161
97.0	0.893	1.171	1.039	0.798	0.651	0.461	0.271	0.198	0.176	0.168
97.5	0.885	1.207	1.046	0.805	0.644	0.454	0.271	0.198	0.176	0.168
98.0	0.871	1.288	1.054	0.805	0.622	0.446	0.271	0.198	0.168	0.168
98.5	0.856	1.398	1.061	0.805	0.607	0.439	0.271	0.190	0.168	0.168
99.0	0.842	1.442	1.039	0.805	0.600	0.424	0.263	0.190	0.168	0.161
99.5	0.834	1.412	1.017	0.820	0.600	0.417	0.256	0.190	0.168	0.161
100.0	0.827	1.347	0.995	0.834	0.615	0.402	0.256	0.190	0.168	0.161
100.5	0.827	1.281	0.973	0.827	0.629	0.395	0.256	0.190	0.161	0.161
101.0	0.827	1.222	0.951	0.820	0.637	0.395	0.256	0.190	0.161	0.161
101.5	0.834	1.178	0.922	0.812	0.644	0.402	0.256	0.190	0.168	0.168
102.0	0.834	1.134	0.907	0.827	0.637	0.402	0.256	0.190	0.168	0.168
102.5	0.842	1.098	0.885	0.827	0.622	0.410	0.256	0.190	0.168	0.168
103.0	0.849	1.068	0.878	0.820	0.615	0.410	0.256	0.198	0.168	0.176
103.5	0.856	1.032	0.864	0.798	0.615	0.410	0.256	0.198	0.176	0.176
104.0	0.878	1.010	0.849	0.776	0.607	0.402	0.263	0.198	0.176	0.176
104.5	0.885	0.988	0.834	0.761	0.607	0.402	0.263	0.198	0.176	0.183
105.0	0.893	0.966	0.820	0.746	0.607	0.395	0.271	0.198	0.183	0.183
105.5	0.893	0.951	0.812	0.739	0.600	0.395	0.271	0.198	0.183	0.183
106.0	0.893	0.944	0.812	0.732	0.593	0.395	0.271	0.205	0.190	0.190
106.5	0.893	0.937	0.805	0.732	0.578	0.402	0.278	0.205	0.190	0.190
107.0	0.885	0.929	0.812	0.732	0.571	0.395	0.278	0.205	0.190	0.198
107.5	0.878	0.907	0.820	0.717	0.556	0.395	0.278	0.205	0.198	0.198
108.0	0.864	0.900	0.834	0.695	0.549	0.395	0.278	0.212	0.198	0.205
108.5	0.842	0.885	0.827	0.681	0.542	0.395	0.278	0.212	0.205	0.205
109.0	0.820	0.864	0.834	0.666	0.534	0.395	0.285	0.220	0.205	0.212
109.5	0.812	0.849	0.827	0.651	0.534	0.395	0.285	0.227	0.212	0.212
110.0	0.812	0.842	0.812	0.644	0.534	0.395	0.293	0.227	0.212	0.220
110.5	0.812	0.834	0.798	0.637	0.527	0.395	0.293	0.234	0.220	0.220

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111.0	0.805	0.834	0.783	0.622	0.527	0.395	0.300	0.241	0.220	0.227
111.5	0.798	0.827	0.768	0.615	0.520	0.395	0.307	0.241	0.227	0.234
112.0	0.790	0.812	0.754	0.607	0.520	0.395	0.307	0.249	0.234	0.234
112.5	0.783	0.798	0.739	0.607	0.520	0.402	0.315	0.256	0.234	0.241
113.0	0.768	0.783	0.732	0.615	0.512	0.395	0.315	0.256	0.241	0.241
113.5	0.776	0.768	0.710	0.615	0.505	0.395	0.315	0.263	0.241	0.249
114.0	0.783	0.761	0.695	0.615	0.505	0.395	0.315	0.271	0.249	0.256
114.5	0.783	0.768	0.681	0.615	0.505	0.402	0.315	0.271	0.256	0.263
115.0	0.790	0.768	0.681	0.615	0.512	0.410	0.315	0.278	0.256	0.263
115.5	0.790	0.768	0.666	0.615	0.512	0.410	0.322	0.285	0.263	0.271
116.0	0.790	0.761	0.666	0.607	0.512	0.417	0.322	0.285	0.271	0.278
116.5	0.798	0.768	0.673	0.600	0.512	0.417	0.322	0.293	0.278	0.285
117.0	0.798	0.761	0.673	0.600	0.505	0.417	0.329	0.300	0.285	0.293
117.5	0.798	0.754	0.673	0.600	0.505	0.417	0.329	0.300	0.285	0.293
118.0	0.790	0.746	0.666	0.600	0.512	0.417	0.337	0.307	0.293	0.300
118.5	0.798	0.739	0.666	0.600	0.512	0.424	0.344	0.307	0.300	0.307
119.0	0.790	0.739	0.659	0.600	0.520	0.424	0.351	0.315	0.315	0.315
119.5	0.783	0.739	0.666	0.600	0.527	0.424	0.359	0.315	0.315	0.315
120.0	0.790	0.724	0.666	0.607	0.527	0.424	0.359	0.322	0.315	0.322
120.5	0.790	0.724	0.666	0.607	0.527	0.424	0.366	0.322	0.322	0.329
121.0	0.776	0.739	0.673	0.607	0.534	0.432	0.366	0.329	0.329	0.337
121.5	0.790	0.732	0.666	0.607	0.534	0.432	0.373	0.337	0.337	0.344
122.0	0.783	0.732	0.659	0.607	0.542	0.432	0.373	0.337	0.344	0.344
122.5	0.783	0.724	0.666	0.615	0.542	0.439	0.373	0.344	0.344	0.351
123.0	0.776	0.724	0.673	0.622	0.542	0.446	0.381	0.351	0.351	0.359
123.5	0.768	0.732	0.666	0.629	0.542	0.454	0.381	0.351	0.359	0.366
124.0	0.768	0.724	0.666	0.629	0.542	0.454	0.388	0.359	0.366	0.373
124.5	0.783	0.724	0.659	0.644	0.542	0.461	0.395	0.359	0.373	0.381
125.0	0.776	0.732	0.659	0.644	0.542	0.461	0.395	0.366	0.373	0.388
125.5	0.776	0.732	0.666	0.644	0.549	0.468	0.402	0.373	0.381	0.395
126.0	0.776	0.732	0.673	0.637	0.549	0.468	0.402	0.373	0.388	0.402
126.5	0.768	0.732	0.673	0.644	0.556	0.468	0.410	0.381	0.388	0.402
127.0	0.768	0.724	0.673	0.644	0.563	0.476	0.417	0.388	0.395	0.410
127.5	0.783	0.717	0.681	0.644	0.563	0.476	0.417	0.395	0.395	0.410
128.0	0.768	0.724	0.681	0.651	0.563	0.483	0.424	0.402	0.402	0.417
128.5	0.761	0.724	0.688	0.644	0.563	0.483	0.424	0.410	0.402	0.424
129.0	0.783	0.724	0.695	0.644	0.563	0.483	0.432	0.417	0.410	0.432
129.5	0.783	0.732	0.695	0.651	0.571	0.490	0.439	0.424	0.410	0.432
130.0	0.768	0.724	0.688	0.644	0.571	0.490	0.439	0.432	0.417	0.439
130.5	0.761	0.717	0.688	0.659	0.571	0.498	0.446	0.439	0.424	0.446
131.0	0.776	0.724	0.688	0.651	0.578	0.498	0.454	0.446	0.432	0.454
131.5	0.776	0.710	0.681	0.659	0.578	0.498	0.461	0.446	0.439	0.468
132.0	0.768	0.710	0.681	0.666	0.578	0.498	0.468	0.454	0.439	0.468
132.5	0.768	0.703	0.688	0.666	0.578	0.490	0.468	0.461	0.446	0.476
133.0	0.776	0.703	0.681	0.659	0.578	0.490	0.476	0.461	0.454	0.483
133.5	0.768	0.695	0.688	0.659	0.585	0.498	0.476	0.461	0.454	0.483
134.0	0.754	0.703	0.688	0.659	0.578	0.498	0.483	0.468	0.454	0.483
134.5	0.761	0.703	0.695	0.651	0.571	0.498	0.483	0.468	0.461	0.490
135.0	0.761	0.710	0.688	0.651	0.571	0.498	0.498	0.468	0.461	0.490
135.5	0.761	0.710	0.688	0.651	0.571	0.498	0.505	0.468	0.461	0.490
136.0	0.761	0.717	0.695	0.651	0.571	0.498	0.505	0.476	0.461	0.490
136.5	0.761	0.717	0.695	0.651	0.571	0.505	0.512	0.476	0.468	0.498
137.0	0.761	0.717	0.703	0.659	0.578	0.512	0.512	0.483	0.468	0.498
137.5	0.761	0.710	0.703	0.659	0.578	0.512	0.520	0.490	0.476	0.498
138.0	0.761	0.703	0.710	0.659	0.578	0.512	0.520	0.490	0.476	0.505
138.5	0.761	0.710	0.710	0.651	0.578	0.512	0.520	0.498	0.483	0.512

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139.0	0.761	0.717	0.703	0.651	0.578	0.512	0.520	0.505	0.490	0.512
139.5	0.754	0.717	0.710	0.651	0.571	0.512	0.527	0.505	0.490	0.512
140.0	0.754	0.724	0.710	0.651	0.556	0.512	0.527	0.512	0.498	0.520
140.5	0.761	0.717	0.703	0.651	0.556	0.520	0.527	0.512	0.498	0.527
141.0	0.761	0.717	0.703	0.659	0.556	0.527	0.527	0.520	0.505	0.527
141.5	0.761	0.710	0.703	0.666	0.549	0.527	0.527	0.520	0.505	0.534
142.0	0.761	0.710	0.703	0.659	0.542	0.542	0.527	0.527	0.512	0.534
142.5	0.754	0.710	0.710	0.666	0.549	0.549	0.534	0.527	0.520	0.534
143.0	0.754	0.710	0.710	0.666	0.556	0.549	0.534	0.527	0.520	0.542
143.5	0.754	0.710	0.710	0.659	0.563	0.556	0.534	0.520	0.527	0.542
144.0	0.754	0.717	0.717	0.644	0.563	0.563	0.534	0.520	0.527	0.542
144.5	0.754	0.717	0.724	0.637	0.563	0.571	0.534	0.520	0.527	0.542
145.0	0.754	0.724	0.717	0.637	0.578	0.571	0.534	0.520	0.527	0.542
145.5	0.746	0.732	0.717	0.629	0.578	0.571	0.542	0.527	0.527	0.542
146.0	0.754	0.732	0.717	0.622	0.585	0.571	0.542	0.527	0.527	0.542
146.5	0.761	0.732	0.710	0.615	0.585	0.578	0.549	0.527	0.527	0.542
147.0	0.761	0.724	0.688	0.629	0.585	0.585	0.549	0.534	0.527	0.542
147.5	0.754	0.717	0.673	0.629	0.593	0.600	0.556	0.534	0.534	0.549
148.0	0.746	0.703	0.673	0.629	0.607	0.622	0.556	0.542	0.534	0.549
148.5	0.724	0.681	0.659	0.637	0.622	0.607	0.556	0.542	0.534	0.549
149.0	0.695	0.673	0.651	0.644	0.629	0.607	0.563	0.549	0.542	0.549
149.5	0.688	0.666	0.651	0.644	0.644	0.607	0.563	0.549	0.549	0.556
150.0	0.681	0.651	0.659	0.644	0.651	0.615	0.563	0.549	0.549	0.556
150.5	0.666	0.651	0.666	0.644	0.651	0.615	0.556	0.556	0.549	0.556
151.0	0.659	0.659	0.673	0.651	0.651	0.615	0.549	0.563	0.556	0.556
151.5	0.666	0.666	0.703	0.666	0.651	0.615	0.542	0.563	0.563	0.563
152.0	0.673	0.666	0.703	0.673	0.651	0.615	0.542	0.563	0.571	0.571
152.5	0.681	0.681	0.703	0.681	0.651	0.622	0.542	0.563	0.571	0.571
153.0	0.703	0.695	0.710	0.688	0.659	0.615	0.542	0.571	0.563	0.571
153.5	0.717	0.695	0.717	0.688	0.666	0.615	0.542	0.585	0.563	0.563
154.0	0.717	0.703	0.732	0.695	0.673	0.607	0.549	0.585	0.556	0.556
154.5	0.724	0.710	0.739	0.710	0.666	0.607	0.556	0.578	0.563	0.556
155.0	0.732	0.724	0.739	0.724	0.666	0.607	0.563	0.578	0.563	0.563
155.5	0.739	0.739	0.739	0.717	0.666	0.600	0.563	0.578	0.563	0.563
156.0	0.754	0.754	0.746	0.710	0.666	0.593	0.563	0.585	0.563	0.563
156.5	0.754	0.754	0.754	0.710	0.666	0.585	0.563	0.585	0.571	0.563
157.0	0.761	0.761	0.746	0.717	0.659	0.585	0.556	0.585	0.571	0.563
157.5	0.768	0.768	0.746	0.724	0.651	0.578	0.556	0.585	0.571	0.563
158.0	0.768	0.768	0.746	0.732	0.651	0.578	0.563	0.585	0.578	0.563
158.5	0.768	0.783	0.754	0.739	0.651	0.571	0.563	0.585	0.578	0.563
159.0	0.776	0.805	0.754	0.739	0.644	0.578	0.563	0.593	0.578	0.563
159.5	0.776	0.798	0.754	0.739	0.651	0.578	0.563	0.600	0.585	0.563
160.0	0.776	0.783	0.754	0.732	0.659	0.578	0.563	0.600	0.585	0.571
160.5	0.776	0.790	0.746	0.732	0.659	0.578	0.563	0.593	0.585	0.571
161.0	0.776	0.790	0.754	0.724	0.666	0.578	0.571	0.585	0.585	0.571
161.5	0.776	0.783	0.754	0.717	0.666	0.585	0.578	0.585	0.578	0.571
162.0	0.776	0.776	0.746	0.717	0.673	0.593	0.571	0.585	0.578	0.563
162.5	0.776	0.776	0.739	0.724	0.681	0.593	0.571	0.585	0.578	0.563
163.0	0.783	0.783	0.739	0.724	0.688	0.600	0.578	0.585	0.578	0.571
163.5	0.783	0.776	0.739	0.717	0.688	0.607	0.585	0.585	0.585	0.578
164.0	0.776	0.776	0.739	0.724	0.688	0.622	0.593	0.585	0.585	0.578
164.5	0.776	0.776	0.746	0.724	0.695	0.629	0.600	0.600	0.585	0.585
165.0	0.776	0.776	0.746	0.724	0.710	0.637	0.607	0.607	0.593	0.593
165.5	0.783	0.783	0.754	0.732	0.710	0.659	0.622	0.607	0.600	0.607
166.0	0.790	0.790	0.761	0.724	0.717	0.659	0.637	0.600	0.607	0.644
166.5	0.798	0.790	0.768	0.732	0.724	0.666	0.637	0.615	0.622	0.681

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167.0	0.798	0.790	0.776	0.754	0.724	0.673	0.637	0.622	0.637	0.688
167.5	0.798	0.805	0.783	0.754	0.732	0.681	0.659	0.629	0.644	0.673
168.0	0.812	0.820	0.783	0.761	0.732	0.688	0.659	0.637	0.651	0.659
168.5	0.820	0.820	0.790	0.776	0.732	0.688	0.666	0.637	0.651	0.644
169.0	0.827	0.827	0.798	0.776	0.739	0.681	0.659	0.651	0.651	0.637
169.5	0.827	0.827	0.805	0.776	0.746	0.681	0.651	0.651	0.666	0.644
170.0	0.827	0.827	0.805	0.776	0.746	0.673	0.644	0.651	0.681	0.651
170.5	0.820	0.827	0.805	0.776	0.746	0.681	0.637	0.659	0.681	0.673
171.0	0.820	0.820	0.812	0.783	0.746	0.681	0.629	0.659	0.688	0.703
171.5	0.827	0.834	0.820	0.783	0.754	0.681	0.637	0.659	0.688	0.673
172.0	0.834	0.842	0.827	0.790	0.761	0.688	0.644	0.666	0.688	0.651
172.5	0.842	0.842	0.827	0.805	0.768	0.710	0.651	0.673	0.695	0.651
173.0	0.849	0.849	0.834	0.812	0.776	0.724	0.673	0.695	0.695	0.659
173.5	0.856	0.856	0.849	0.827	0.798	0.746	0.688	0.717	0.710	0.666
174.0	0.864	0.871	0.864	0.842	0.820	0.768	0.717	0.739	0.724	0.681
174.5	0.871	0.871	0.871	0.856	0.834	0.790	0.739	0.754	0.739	0.695
175.0	0.871	0.871	0.871	0.864	0.849	0.805	0.739	0.761	0.746	0.710
175.5	0.871	0.871	0.871	0.864	0.856	0.812	0.746	0.768	0.754	0.717
176.0	0.864	0.871	0.871	0.864	0.864	0.820	0.754	0.776	0.761	0.717
176.5	0.864	0.871	0.871	0.864	0.864	0.827	0.768	0.790	0.768	0.724
177.0	0.864	0.871	0.864	0.864	0.856	0.827	0.783	0.798	0.768	0.739
177.5	0.856	0.864	0.856	0.856	0.849	0.827	0.790	0.805	0.776	0.754
178.0	0.849	0.864	0.856	0.849	0.849	0.827	0.798	0.798	0.776	0.768
178.5	0.842	0.849	0.849	0.842	0.842	0.827	0.812	0.798	0.783	0.783
179.0	0.834	0.849	0.842	0.834	0.834	0.820	0.820	0.790	0.790	0.798
179.5	0.834	0.849	0.849	0.834	0.827	0.820	0.827	0.783	0.790	0.805
180.0	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834

Vert. Angles **Horizontal Angles**

	<u>100</u>	<u>110</u>	<u>120</u>	<u>130</u>	<u>140</u>	<u>150</u>	<u>160</u>	<u>170</u>	<u>180</u>	<u>190</u>
0.0	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658
0.5	1551.819	1551.665	1551.658	1551.650	1551.650	1551.314	1551.314	1551.138	1551.131	1551.299
1.0	1551.994	1551.833	1551.826	1551.650	1551.475	1551.299	1551.131	1550.779	1550.611	1550.787
1.5	1552.001	1551.833	1551.658	1551.482	1551.314	1551.138	1550.955	1550.618	1550.267	1550.421
2.0	1551.489	1551.504	1551.489	1551.138	1551.138	1550.962	1550.633	1550.443	1549.887	1549.762
2.5	1550.992	1550.809	1550.977	1550.648	1550.450	1550.282	1549.784	1549.433	1549.067	1549.060
3.0	1550.472	1550.282	1550.289	1549.960	1549.952	1549.587	1548.913	1548.547	1548.196	1548.020
3.5	1549.616	1549.462	1549.243	1549.089	1548.943	1548.599	1548.050	1547.845	1547.150	1546.952
4.0	1549.074	1548.591	1548.247	1547.867	1547.706	1547.552	1547.172	1546.850	1546.271	1545.737
4.5	1547.940	1547.706	1547.040	1546.711	1546.469	1546.484	1546.023	1545.620	1544.874	1544.515
5.0	1546.557	1546.147	1545.979	1545.657	1545.320	1545.093	1544.808	1544.222	1543.308	1543.103
5.5	1545.313	1544.815	1544.749	1544.435	1544.098	1543.769	1543.242	1542.744	1541.903	1541.632
6.0	1543.930	1543.439	1543.198	1543.044	1542.708	1542.378	1541.998	1541.507	1540.593	1540.220
6.5	1542.378	1541.873	1541.632	1541.310	1541.149	1540.820	1540.622	1540.117	1539.019	1538.639
7.0	1540.615	1540.132	1539.993	1539.729	1539.561	1539.246	1538.697	1538.375	1537.270	1536.904
7.5	1538.873	1538.558	1538.075	1537.936	1537.761	1537.497	1536.890	1536.451	1535.353	1535.155
8.0	1536.904	1536.458	1536.151	1535.836	1535.682	1535.529	1534.958	1534.636	1533.260	1533.194
8.5	1535.316	1534.490	1534.402	1533.911	1533.589	1533.282	1533.033	1532.887	1531.306	1530.904
9.0	1533.055	1532.236	1532.126	1531.650	1531.489	1530.999	1530.589	1530.472	1528.986	1528.591
9.5	1530.816	1530.150	1529.704	1529.564	1529.257	1529.089	1528.320	1528.050	1526.871	1525.818
10.0	1528.379	1527.903	1527.581	1527.303	1526.835	1526.667	1526.059	1525.452	1524.098	1523.388
10.5	1525.744	1525.122	1524.991	1524.676	1524.376	1524.047	1523.425	1522.832	1521.463	1520.922
11.0	1522.781	1522.312	1522.159	1521.873	1521.581	1521.427	1520.790	1520.190	1518.668	1518.141
11.5	1519.810	1519.378	1519.019	1518.902	1518.631	1518.500	1517.980	1517.424	1515.880	1515.346
12.0	1516.502	1516.414	1516.231	1516.099	1515.675	1515.514	1515.199	1514.460	1512.872	1511.818

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12.5	1513.523	1513.275	1513.099	1512.806	1512.689	1512.389	1512.250	1511.306	1509.725	1508.481
13.0	1509.864	1509.667	1509.806	1509.506	1509.418	1509.111	1508.825	1508.211	1506.601	1505.174
13.5	1506.257	1506.001	1506.337	1506.205	1505.949	1505.796	1505.496	1504.903	1503.447	1501.880
14.0	1502.451	1502.481	1502.488	1502.583	1502.649	1502.283	1502.012	1501.559	1499.773	1498.404
14.5	1498.748	1498.514	1498.792	1499.056	1498.968	1498.939	1498.346	1497.943	1495.997	1495.265
15.0	1494.745	1494.475	1495.024	1495.221	1495.272	1495.177	1494.650	1494.255	1492.331	1491.035
15.5	1490.574	1490.311	1491.021	1490.889	1491.438	1491.167	1491.174	1490.435	1488.635	1487.120
16.0	1486.359	1486.264	1486.666	1487.010	1487.420	1487.310	1487.223	1486.571	1484.749	1482.861
16.5	1481.932	1482.049	1482.298	1482.912	1483.307	1483.110	1483.044	1482.554	1480.578	1478.858
17.0	1477.885	1477.621	1477.899	1478.558	1478.953	1478.990	1478.653	1478.434	1476.414	1474.497
17.5	1473.274	1472.989	1473.128	1473.926	1474.321	1474.877	1474.387	1474.014	1471.965	1470.281
18.0	1468.474	1468.079	1468.518	1468.986	1469.923	1470.347	1469.747	1469.425	1467.559	1465.591
18.5	1463.512	1463.212	1463.637	1464.090	1464.910	1465.627	1465.225	1464.581	1462.480	1460.812
19.0	1458.404	1458.346	1458.624	1458.697	1459.831	1460.739	1460.534	1459.831	1457.907	1455.514
19.5	1453.589	1453.018	1453.472	1453.728	1454.709	1455.938	1455.741	1454.701	1452.850	1450.647
20.0	1448.020	1447.800	1448.035	1448.657	1449.974	1450.874	1450.823	1449.462	1447.903	1445.422
20.5	1442.627	1442.217	1442.641	1443.249	1444.573	1445.473	1445.298	1444.420	1442.480	1439.999
21.0	1437.328	1436.765	1436.831	1437.636	1439.165	1440.021	1440.007	1439.019	1436.984	1434.474
21.5	1431.547	1431.167	1431.540	1431.847	1433.523	1434.452	1434.394	1433.216	1431.174	1428.708
22.0	1426.007	1425.268	1425.466	1426.103	1427.464	1428.693	1428.664	1427.478	1425.729	1422.934
22.5	1419.941	1419.099	1419.590	1419.860	1421.543	1422.656	1422.927	1422.100	1419.582	1416.933
23.0	1413.582	1413.245	1413.391	1413.567	1415.543	1416.509	1416.831	1415.953	1413.625	1410.991
23.5	1407.873	1407.273	1407.976	1407.925	1409.674	1410.530	1410.845	1409.798	1407.369	1404.573
24.0	1400.892	1400.695	1401.295	1401.499	1403.307	1404.273	1404.697	1403.871	1401.104	1398.309
24.5	1394.635	1394.152	1394.540	1395.133	1396.231	1397.621	1398.170	1397.197	1394.386	1391.547
25.0	1388.408	1387.478	1387.720	1388.495	1389.622	1390.903	1391.123	1390.552	1387.529	1384.697
25.5	1381.294	1380.402	1381.104	1382.070	1383.014	1383.995	1384.295	1383.739	1380.563	1377.840
26.0	1374.211	1373.237	1373.662	1375.052	1375.769	1376.662	1377.511	1376.787	1373.391	1370.427
26.5	1366.849	1366.117	1366.410	1367.478	1368.393	1369.571	1370.281	1369.051	1366.146	1363.373
27.0	1360.006	1358.784	1359.033	1360.087	1361.390	1362.414	1363.073	1361.814	1358.521	1355.725
27.5	1352.213	1351.276	1351.891	1352.615	1353.932	1355.038	1355.608	1354.181	1351.137	1347.727
28.0	1344.302	1343.380	1343.643	1345.268	1345.853	1346.688	1347.032	1345.941	1343.263	1339.692
28.5	1336.479	1335.557	1335.806	1337.240	1337.730	1338.887	1339.209	1338.118	1334.920	1331.781
29.0	1328.495	1327.778	1328.188	1328.912	1330.068	1330.859	1331.349	1329.776	1326.409	1322.985
29.5	1319.962	1319.589	1320.248	1320.855	1322.055	1322.502	1322.802	1321.302	1318.221	1314.635
30.0	1311.305	1311.130	1311.195	1312.600	1313.471	1313.742	1314.364	1312.652	1309.520	1306.131
30.5	1302.128	1302.516	1303.050	1303.951	1304.858	1305.282	1305.421	1303.702	1300.467	1297.020
31.0	1293.954	1293.610	1294.335	1295.264	1295.952	1296.508	1296.340	1294.788	1291.166	1287.536
31.5	1284.514	1284.463	1285.275	1286.263	1287.009	1287.375	1287.031	1286.043	1282.092	1278.147
32.0	1275.454	1275.418	1275.988	1277.394	1277.935	1278.199	1277.979	1276.332	1272.586	1268.788
32.5	1266.197	1266.168	1266.812	1268.085	1268.341	1269.102	1268.151	1266.995	1262.626	1258.550
33.0	1256.662	1256.515	1257.547	1258.630	1258.674	1259.289	1258.484	1256.998	1253.061	1248.970
33.5	1246.834	1246.504	1247.346	1248.707	1248.846	1249.278	1248.429	1246.987	1243.299	1238.908
34.0	1236.493	1236.508	1237.145	1238.520	1238.462	1239.062	1238.403	1236.442	1232.805	1228.026
34.5	1226.226	1226.702	1227.287	1228.378	1228.692	1228.970	1227.924	1226.336	1222.084	1217.371
35.0	1216.420	1216.083	1217.188	1218.403	1218.571	1218.674	1217.774	1215.871	1211.429	1206.643
35.5	1205.501	1205.033	1206.716	1207.587	1207.646	1207.916	1206.636	1204.770	1200.591	1195.564
36.0	1194.722	1194.305	1195.300	1196.178	1196.588	1197.027	1195.893	1193.815	1189.519	1184.440
36.5	1183.255	1183.474	1184.367	1185.084	1185.875	1185.787	1184.462	1182.574	1178.388	1172.849
37.0	1171.239	1171.612	1172.966	1174.122	1174.561	1174.210	1173.200	1170.778	1166.767	1161.462
37.5	1159.501	1159.559	1161.081	1162.172	1162.808	1162.267	1161.440	1159.230	1154.839	1149.680
38.0	1147.689	1147.975	1149.431	1150.236	1151.056	1150.748	1150.082	1147.484	1143.298	1137.817
38.5	1135.263	1135.454	1137.371	1138.578	1139.464	1139.113	1138.044	1135.402	1130.946	1125.772
39.0	1122.252	1122.611	1124.813	1126.526	1126.752	1126.584	1125.977	1123.006	1119.112	1113.280
39.5	1109.072	1109.943	1111.729	1114.056	1114.334	1113.829	1113.361	1110.931	1107.030	1101.249
40.0	1095.666	1097.049	1099.054	1101.205	1101.754	1101.440	1101.139	1098.468	1094.612	1088.604

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40.5	1081.549	1083.218	1085.538	1088.135	1089.109	1088.692	1087.989	1085.691	1081.718	1075.958
41.0	1067.060	1068.838	1071.787	1074.883	1075.541	1075.446	1074.978	1072.460	1068.816	1063.313
41.5	1053.053	1055.417	1058.454	1061.571	1062.222	1062.157	1061.769	1060.086	1055.922	1050.667
42.0	1038.139	1042.054	1045.332	1048.062	1049.109	1049.211	1048.816	1046.840	1043.020	1037.985
42.5	1022.822	1026.203	1030.638	1034.216	1035.468	1035.446	1035.168	1032.870	1030.104	1023.671
43.0	1006.950	1010.791	1015.951	1019.654	1021.176	1021.681	1020.942	1018.819	1016.221	1009.818
43.5	991.208	995.577	1001.293	1005.061	1006.781	1007.652	1007.008	1005.354	1002.625	995.804
44.0	975.387	980.634	986.949	991.216	992.789	993.587	992.716	991.230	988.267	981.534
44.5	958.585	964.995	971.596	976.411	978.461	979.090	978.878	976.741	974.004	967.081
45.0	941.892	948.610	956.382	961.461	963.459	964.425	964.395	962.383	959.448	952.394
45.5	925.273	932.591	941.146	946.517	949.108	949.664	949.540	947.988	945.288	937.699
46.0	908.230	916.770	926.020	932.006	934.618	934.977	934.794	933.411	930.535	923.005
46.5	889.949	899.748	910.052	916.440	919.390	919.273	919.946	917.772	915.657	908.222
47.0	871.567	882.039	893.908	901.124	903.188	904.197	904.249	902.295	900.187	893.059
47.5	853.476	864.790	878.145	885.741	888.369	889.488	889.540	887.242	885.017	877.853
48.0	835.130	847.820	862.163	870.959	873.345	874.391	873.894	872.298	869.796	862.609
48.5	815.745	830.110	845.331	855.313	858.050	858.255	858.328	857.099	854.655	847.146
49.0	796.733	811.259	828.185	839.419	841.833	842.514	842.602	841.453	839.082	831.940
49.5	777.808	793.008	811.142	823.165	827.088	827.512	826.868	825.814	823.377	816.462
50.0	758.255	774.230	794.179	807.680	811.983	811.493	811.215	809.920	807.885	801.065
50.5	738.913	755.423	776.198	791.449	796.096	795.664	795.159	793.930	792.225	785.785
51.0	720.238	736.988	758.459	775.035	779.791	780.940	779.660	778.452	776.337	769.444
51.5	701.943	718.313	740.647	758.269	765.251	764.629	763.765	762.294	760.809	754.274
52.0	683.428	699.279	722.206	741.650	749.758	749.136	747.936	746.399	745.009	738.576
52.5	665.638	680.896	703.589	724.870	733.783	733.337	731.946	730.329	729.275	723.472
53.0	648.397	663.194	685.784	707.834	717.706	718.437	716.044	714.332	713.329	707.402
53.5	631.873	645.901	668.046	690.790	702.228	702.301	700.713	698.854	697.866	692.012
54.0	615.012	628.258	649.546	672.751	686.172	687.416	684.665	683.304	682.286	676.425
54.5	599.439	611.660	631.792	655.349	670.014	671.609	669.334	667.241	666.223	660.823
55.0	583.962	595.517	614.990	638.459	653.768	656.447	653.783	652.070	651.324	645.572
55.5	569.165	579.761	597.859	621.166	638.013	640.669	638.561	636.454	635.729	630.731
56.0	553.629	563.867	580.800	603.157	621.518	625.016	622.323	620.727	621.013	615.788
56.5	539.520	548.638	564.423	586.018	604.964	609.707	607.731	605.645	604.986	600.339
57.0	525.528	534.199	549.179	569.377	588.938	594.924	592.890	590.526	590.489	585.557
57.5	512.465	519.702	534.404	553.343	572.282	579.630	578.115	575.824	575.319	571.141
58.0	499.461	511.111	518.839	536.512	555.934	564.467	562.659	560.976	560.830	556.644
58.5	486.449	496.578	512.538	521.086	539.929	549.267	548.740	546.867	546.252	542.337
59.0	473.438	481.722	496.958	508.360	523.852	534.229	534.404	532.633	532.275	528.213
59.5	460.427	466.866	480.741	493.402	507.467	519.110	520.163	518.136	518.334	514.580
60.0	447.423	452.011	464.532	478.290	492.633	502.007	506.501	511.023	504.613	500.822
60.5	436.080	439.746	448.323	463.178	477.895	488.220	492.779	496.460	490.957	487.262
61.0	424.554	427.818	435.355	448.067	463.156	474.441	479.058	481.481	477.800	474.258
61.5	413.218	415.655	422.900	434.682	448.418	460.668	465.337	466.501	464.971	461.334
62.0	402.534	404.517	410.606	421.246	434.594	446.888	451.616	451.521	452.574	448.923
62.5	392.157	393.269	398.809	408.644	421.027	433.540	439.168	438.619	440.266	436.599
63.0	381.839	382.607	387.305	396.416	408.147	420.536	426.866	427.210	428.059	424.707
63.5	371.725	371.886	375.918	384.385	395.318	407.583	414.594	415.209	416.606	413.145
64.0	362.534	362.161	365.212	372.859	383.083	394.996	402.805	403.829	405.315	401.846
64.5	353.152	352.296	354.864	361.451	371.147	383.097	391.381	392.428	394.287	390.759
65.0	343.887	342.636	344.634	350.671	360.053	371.506	380.126	382.183	383.697	380.199
65.5	335.055	333.328	334.674	340.126	348.739	360.229	369.237	371.542	373.306	370.020
66.0	326.412	324.568	325.073	329.815	338.004	349.274	358.699	361.312	363.339	360.031
66.5	318.004	315.772	315.969	319.987	327.839	339.160	348.944	351.388	353.547	350.144
67.0	309.683	307.341	306.946	310.452	318.128	329.186	339.226	342.460	344.239	341.136
67.5	301.853	298.992	298.077	301.245	308.439	319.636	329.705	333.130	335.113	331.952
68.0	294.271	291.242	289.720	292.391	299.394	310.730	320.741	324.568	326.434	323.207

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68.5	286.624	283.514	281.809	283.931	290.649	301.904	312.362	315.764	317.960	314.864
69.0	279.313	276.145	273.869	275.676	282.380	293.335	303.968	307.810	309.895	306.719
69.5	272.252	268.768	266.061	267.517	273.986	285.270	295.794	299.650	301.999	298.670
70.0	265.424	261.875	258.743	259.891	266.295	277.711	288.102	292.252	294.110	290.883
70.5	258.699	255.076	251.900	252.734	259.043	270.166	280.748	284.458	286.631	283.477
71.0	252.193	248.783	245.197	245.563	251.951	262.987	273.547	277.491	279.562	276.269
71.5	245.914	242.540	238.581	238.647	244.890	256.028	266.558	270.451	272.713	269.010
72.0	239.665	236.203	232.156	232.003	238.201	249.405	259.621	263.697	265.717	262.167
72.5	233.517	230.144	226.273	225.841	231.878	242.811	252.991	256.745	258.933	255.201
73.0	227.575	224.567	220.257	219.745	225.694	236.591	246.397	250.341	252.449	248.490
73.5	221.984	219.028	214.791	213.964	219.781	230.385	240.082	243.770	245.980	241.743
74.0	216.122	213.539	209.258	208.380	214.183	224.472	233.869	237.491	239.591	235.274
74.5	210.005	207.934	204.033	202.928	208.519	218.611	227.451	231.190	233.298	228.783
75.0	204.384	202.526	198.632	197.601	203.031	212.632	221.187	224.941	227.129	222.314
75.5	198.442	196.935	193.459	192.427	197.688	207.034	214.966	218.501	220.945	215.874
76.0	192.427	191.278	188.365	187.509	192.595	201.296	208.951	212.398	214.688	209.507
76.5	186.302	185.592	183.243	182.511	187.480	195.610	202.767	206.236	208.409	202.965
77.0	180.469	179.730	177.703	177.557	182.218	189.851	196.444	199.898	202.116	196.518
77.5	174.461	173.971	172.375	172.632	177.169	184.150	190.392	193.686	195.822	190.136
78.0	168.336	167.999	166.843	167.751	172.061	178.347	184.231	187.348	189.390	183.806
78.5	162.123	162.086	161.150	162.591	166.946	172.485	178.113	182.950	182.826	178.881
79.0	156.108	155.873	155.134	157.125	161.603	166.485	171.753	176.554	176.152	172.837
79.5	149.821	149.792	149.536	151.688	156.181	160.645	168.263	167.992	169.331	165.899
80.0	143.718	143.645	143.711	146.170	150.817	154.732	161.772	161.194	162.328	158.669
80.5	137.315	137.330	137.469	140.352	145.255	148.533	155.105	154.278	155.376	152.639
81.0	130.882	130.934	131.117	134.490	139.283	142.350	148.555	148.585	148.138	147.084
81.5	124.267	124.296	124.999	128.365	133.158	136.071	141.859	142.350	140.879	139.810
82.0	117.703	117.659	118.574	122.152	126.697	129.763	133.554	133.627	133.275	131.812
82.5	110.802	110.875	111.900	115.507	119.876	123.199	127.436	126.111	125.511	124.596
83.0	104.062	104.245	105.130	109.067	113.019	116.444	119.225	118.720	117.747	117.373
83.5	97.088	97.359	98.442	102.254	106.199	109.690	112.156	111.402	109.982	110.158
84.0	90.004	90.158	91.490	95.302	99.027	102.628	105.255	104.421	102.211	102.928
84.5	82.818	83.023	84.252	87.831	91.365	95.844	98.376	96.927	94.307	95.017
85.0	75.544	75.866	76.941	80.322	83.374	87.318	92.485	88.789	86.001	87.106
85.5	67.779	68.438	69.441	72.507	75.566	78.910	84.772	80.183	77.937	79.173
86.0	60.366	60.688	61.683	64.706	67.435	70.780	75.961	71.943	69.411	70.633
86.5	52.975	53.209	53.875	56.371	59.173	62.496	66.821	63.747	61.193	61.530
87.0	45.620	45.833	46.374	48.021	50.567	53.992	57.761	55.463	52.653	53.853
87.5	38.266	38.463	38.888	40.212	42.452	45.115	48.599	47.933	44.128	46.206
88.0	30.919	31.087	31.402	32.397	34.343	36.224	38.888	38.193	35.148	37.124
88.5	23.564	23.718	23.915	24.588	26.235	27.333	29.148	28.291	28.299	28.043
89.0	16.209	16.348	16.429	16.780	18.127	18.441	19.407	18.390	21.449	18.961
89.5	9.828	10.077	9.996	9.916	10.011	9.550	9.667	8.482	14.599	9.879
90.0	4.640	4.735	4.603	4.318	3.805	2.935	2.020	6.850	7.750	1.098
90.5	3.352	3.527	3.381	3.176	2.978	2.283	1.398	5.357	1.090	1.134
91.0	2.291	2.408	2.349	2.291	2.217	1.793	1.229	3.864	1.039	1.149
91.5	1.229	1.288	1.317	1.405	1.456	1.303	1.054	2.371	1.017	1.142
92.0	0.176	0.176	0.285	0.520	0.695	0.812	0.885	0.878	1.017	1.171
92.5	0.117	0.161	0.256	0.483	0.681	0.761	0.907	0.937	1.025	1.156
93.0	0.124	0.176	0.271	0.498	0.681	0.790	0.885	0.893	1.039	1.186
93.5	0.132	0.183	0.271	0.498	0.673	0.776	0.922	0.944	1.054	1.215
94.0	0.139	0.190	0.271	0.483	0.717	0.820	0.966	1.039	1.061	1.229
94.5	0.154	0.198	0.271	0.490	0.666	0.849	0.973	1.090	1.076	1.259
95.0	0.154	0.198	0.271	0.490	0.688	0.878	0.988	1.083	1.090	1.303
95.5	0.154	0.198	0.278	0.476	0.703	0.856	1.017	1.068	1.105	1.347
96.0	0.161	0.205	0.271	0.490	0.739	0.842	1.032	1.039	1.120	1.427

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96.5	0.168	0.205	0.263	0.498	0.739	0.842	1.061	1.054	1.134	1.500
97.0	0.168	0.212	0.263	0.520	0.724	0.864	1.083	1.083	1.142	1.559
97.5	0.168	0.212	0.278	0.527	0.710	0.885	1.090	1.076	1.142	1.603
98.0	0.168	0.212	0.285	0.512	0.688	0.900	1.083	1.032	1.134	1.647
98.5	0.168	0.212	0.293	0.505	0.673	0.900	1.076	0.995	1.134	1.661
99.0	0.168	0.205	0.293	0.498	0.673	0.915	1.076	0.981	1.134	1.654
99.5	0.168	0.205	0.285	0.483	0.673	0.929	1.061	0.981	1.134	1.617
100.0	0.168	0.205	0.278	0.476	0.688	0.915	1.039	0.981	1.142	1.595
100.5	0.168	0.205	0.278	0.468	0.703	0.915	1.025	0.981	1.142	1.581
101.0	0.168	0.205	0.278	0.468	0.710	0.922	1.003	0.973	1.149	1.559
101.5	0.168	0.205	0.278	0.468	0.710	0.937	1.003	0.973	1.156	1.537
102.0	0.168	0.212	0.278	0.476	0.717	0.915	1.017	0.973	1.164	1.493
102.5	0.176	0.212	0.285	0.476	0.724	0.885	1.017	0.973	1.164	1.456
103.0	0.176	0.220	0.285	0.490	0.724	0.864	1.003	0.959	1.164	1.405
103.5	0.176	0.220	0.293	0.490	0.724	0.856	1.003	0.951	1.164	1.383
104.0	0.183	0.220	0.293	0.490	0.717	0.842	0.988	0.966	1.178	1.347
104.5	0.183	0.227	0.293	0.490	0.717	0.834	0.988	0.966	1.178	1.317
105.0	0.190	0.227	0.293	0.498	0.724	0.827	0.988	0.951	1.193	1.303
105.5	0.190	0.227	0.300	0.498	0.724	0.827	0.988	0.937	1.200	1.281
106.0	0.198	0.234	0.300	0.490	0.703	0.805	0.995	0.929	1.193	1.251
106.5	0.198	0.234	0.307	0.490	0.666	0.783	0.988	0.907	1.178	1.237
107.0	0.198	0.241	0.307	0.490	0.644	0.761	0.995	0.893	1.171	1.229
107.5	0.205	0.241	0.307	0.483	0.644	0.746	1.003	0.885	1.156	1.215
108.0	0.212	0.241	0.315	0.483	0.644	0.732	1.010	0.878	1.142	1.186
108.5	0.212	0.249	0.315	0.483	0.644	0.724	1.017	0.871	1.120	1.164
109.0	0.212	0.249	0.315	0.476	0.644	0.717	1.010	0.871	1.105	1.149
109.5	0.212	0.256	0.315	0.483	0.644	0.710	1.010	0.864	1.083	1.149
110.0	0.220	0.256	0.315	0.483	0.637	0.703	1.010	0.849	1.068	1.142
110.5	0.227	0.263	0.322	0.483	0.629	0.695	0.966	0.842	1.054	1.134
111.0	0.234	0.263	0.329	0.498	0.622	0.688	0.937	0.812	1.039	1.127
111.5	0.234	0.263	0.329	0.505	0.615	0.688	0.922	0.805	1.032	1.120
112.0	0.241	0.271	0.344	0.512	0.607	0.695	0.885	0.798	1.017	1.090
112.5	0.249	0.271	0.344	0.512	0.607	0.688	0.871	0.805	1.003	1.061
113.0	0.256	0.278	0.359	0.505	0.607	0.695	0.849	0.790	0.995	1.046
113.5	0.256	0.285	0.366	0.498	0.615	0.688	0.827	0.790	0.973	1.025
114.0	0.263	0.285	0.373	0.498	0.622	0.688	0.812	0.798	0.959	1.032
114.5	0.271	0.293	0.373	0.490	0.615	0.695	0.805	0.805	0.951	1.010
115.0	0.278	0.300	0.373	0.498	0.622	0.695	0.790	0.798	0.944	1.003
115.5	0.285	0.300	0.373	0.498	0.622	0.695	0.790	0.798	0.929	0.988
116.0	0.293	0.307	0.373	0.498	0.615	0.695	0.776	0.805	0.915	0.966
116.5	0.293	0.307	0.373	0.505	0.615	0.695	0.783	0.798	0.907	0.981
117.0	0.300	0.315	0.381	0.520	0.615	0.703	0.783	0.805	0.915	0.966
117.5	0.307	0.322	0.388	0.520	0.622	0.703	0.783	0.805	0.907	0.944
118.0	0.315	0.329	0.395	0.534	0.622	0.695	0.790	0.798	0.885	0.944
118.5	0.322	0.337	0.402	0.534	0.622	0.695	0.776	0.805	0.893	0.922
119.0	0.322	0.351	0.410	0.527	0.629	0.695	0.768	0.798	0.893	0.915
119.5	0.329	0.359	0.417	0.527	0.629	0.695	0.768	0.798	0.871	0.915
120.0	0.337	0.373	0.417	0.527	0.637	0.695	0.776	0.790	0.856	0.900
120.5	0.344	0.373	0.424	0.527	0.637	0.703	0.776	0.783	0.871	0.885
121.0	0.351	0.381	0.424	0.527	0.637	0.703	0.776	0.776	0.849	0.893
121.5	0.359	0.388	0.424	0.534	0.644	0.703	0.768	0.783	0.834	0.878
122.0	0.359	0.395	0.432	0.542	0.644	0.710	0.768	0.783	0.834	0.885
122.5	0.366	0.402	0.439	0.549	0.651	0.710	0.761	0.783	0.834	0.878
123.0	0.373	0.410	0.446	0.556	0.651	0.717	0.761	0.776	0.827	0.871
123.5	0.381	0.410	0.454	0.556	0.651	0.717	0.754	0.783	0.812	0.856
124.0	0.388	0.417	0.461	0.556	0.651	0.717	0.754	0.790	0.820	0.856

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124.5	0.395	0.424	0.468	0.563	0.644	0.717	0.754	0.798	0.812	0.849
125.0	0.395	0.432	0.468	0.556	0.651	0.710	0.754	0.798	0.798	0.849
125.5	0.402	0.439	0.468	0.571	0.651	0.717	0.746	0.798	0.790	0.842
126.0	0.410	0.461	0.476	0.563	0.659	0.724	0.754	0.783	0.790	0.834
126.5	0.417	0.483	0.483	0.571	0.651	0.724	0.754	0.790	0.790	0.820
127.0	0.417	0.468	0.490	0.571	0.659	0.732	0.761	0.783	0.776	0.820
127.5	0.424	0.476	0.490	0.571	0.659	0.732	0.761	0.790	0.761	0.805
128.0	0.424	0.476	0.498	0.571	0.666	0.739	0.746	0.776	0.776	0.798
128.5	0.432	0.476	0.505	0.571	0.666	0.739	0.754	0.776	0.754	0.812
129.0	0.439	0.476	0.512	0.571	0.666	0.746	0.761	0.776	0.746	0.798
129.5	0.446	0.483	0.512	0.563	0.666	0.732	0.761	0.783	0.754	0.798
130.0	0.454	0.490	0.512	0.563	0.659	0.732	0.761	0.798	0.754	0.812
130.5	0.461	0.498	0.512	0.563	0.659	0.732	0.768	0.798	0.746	0.790
131.0	0.468	0.505	0.512	0.571	0.659	0.732	0.754	0.798	0.739	0.783
131.5	0.476	0.505	0.512	0.571	0.659	0.739	0.768	0.798	0.739	0.790
132.0	0.490	0.505	0.520	0.571	0.659	0.761	0.776	0.798	0.739	0.776
132.5	0.490	0.512	0.512	0.578	0.659	0.754	0.768	0.798	0.732	0.768
133.0	0.490	0.512	0.512	0.585	0.651	0.761	0.761	0.790	0.717	0.761
133.5	0.498	0.512	0.520	0.585	0.644	0.761	0.761	0.783	0.724	0.761
134.0	0.498	0.520	0.520	0.578	0.651	0.746	0.746	0.798	0.724	0.739
134.5	0.498	0.520	0.527	0.578	0.651	0.732	0.754	0.798	0.717	0.739
135.0	0.498	0.527	0.534	0.578	0.644	0.724	0.746	0.805	0.717	0.746
135.5	0.498	0.527	0.542	0.578	0.644	0.724	0.746	0.790	0.732	0.739
136.0	0.498	0.534	0.556	0.578	0.644	0.717	0.739	0.798	0.732	0.724
136.5	0.505	0.542	0.563	0.585	0.637	0.724	0.739	0.783	0.724	0.724
137.0	0.505	0.542	0.571	0.585	0.637	0.724	0.739	0.790	0.717	0.739
137.5	0.505	0.542	0.571	0.585	0.637	0.710	0.732	0.790	0.717	0.724
138.0	0.512	0.542	0.578	0.578	0.629	0.703	0.732	0.783	0.724	0.724
138.5	0.520	0.549	0.578	0.593	0.637	0.703	0.732	0.790	0.717	0.710
139.0	0.520	0.549	0.578	0.593	0.637	0.703	0.732	0.768	0.717	0.717
139.5	0.520	0.549	0.578	0.593	0.622	0.695	0.739	0.768	0.710	0.739
140.0	0.527	0.556	0.578	0.600	0.607	0.688	0.732	0.761	0.710	0.739
140.5	0.527	0.556	0.578	0.600	0.607	0.681	0.724	0.754	0.717	0.732
141.0	0.527	0.556	0.578	0.600	0.607	0.688	0.724	0.761	0.710	0.732
141.5	0.527	0.556	0.578	0.585	0.615	0.673	0.717	0.761	0.710	0.724
142.0	0.527	0.556	0.571	0.585	0.622	0.681	0.710	0.761	0.710	0.724
142.5	0.534	0.556	0.571	0.585	0.622	0.681	0.710	0.746	0.703	0.724
143.0	0.534	0.556	0.578	0.585	0.622	0.666	0.695	0.732	0.695	0.724
143.5	0.542	0.556	0.578	0.585	0.622	0.644	0.695	0.724	0.681	0.717
144.0	0.542	0.556	0.585	0.593	0.637	0.637	0.688	0.724	0.673	0.703
144.5	0.542	0.556	0.585	0.607	0.637	0.644	0.681	0.717	0.673	0.695
145.0	0.542	0.556	0.585	0.629	0.637	0.651	0.695	0.703	0.673	0.681
145.5	0.534	0.563	0.593	0.637	0.644	0.651	0.695	0.673	0.666	0.673
146.0	0.534	0.563	0.600	0.637	0.644	0.659	0.666	0.673	0.637	0.673
146.5	0.542	0.563	0.607	0.644	0.644	0.666	0.673	0.673	0.644	0.666
147.0	0.542	0.563	0.607	0.644	0.644	0.673	0.673	0.659	0.644	0.644
147.5	0.549	0.571	0.607	0.659	0.644	0.681	0.681	0.637	0.615	0.637
148.0	0.549	0.578	0.615	0.666	0.637	0.695	0.688	0.637	0.593	0.637
148.5	0.549	0.578	0.622	0.659	0.637	0.695	0.703	0.637	0.600	0.637
149.0	0.556	0.578	0.622	0.659	0.644	0.688	0.695	0.644	0.607	0.644
149.5	0.556	0.585	0.622	0.681	0.651	0.695	0.703	0.673	0.607	0.666
150.0	0.556	0.593	0.622	0.703	0.673	0.688	0.732	0.688	0.637	0.666
150.5	0.563	0.593	0.622	0.688	0.688	0.673	0.739	0.695	0.644	0.659
151.0	0.578	0.600	0.615	0.673	0.695	0.673	0.746	0.717	0.644	0.673
151.5	0.585	0.607	0.615	0.666	0.695	0.673	0.739	0.724	0.673	0.673
152.0	0.585	0.607	0.615	0.666	0.695	0.673	0.739	0.732	0.681	0.673

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CANDELA TABULATION - (Cont.)

152.5	0.593	0.607	0.615	0.666	0.695	0.681	0.739	0.732	0.681	0.666
153.0	0.593	0.615	0.615	0.666	0.695	0.695	0.732	0.732	0.681	0.666
153.5	0.585	0.629	0.622	0.666	0.688	0.710	0.724	0.724	0.673	0.666
154.0	0.585	0.629	0.629	0.673	0.688	0.717	0.724	0.724	0.673	0.659
154.5	0.593	0.629	0.637	0.673	0.703	0.724	0.724	0.724	0.673	0.651
155.0	0.593	0.629	0.637	0.681	0.710	0.732	0.739	0.724	0.666	0.651
155.5	0.593	0.644	0.644	0.673	0.703	0.746	0.754	0.732	0.666	0.651
156.0	0.600	0.644	0.651	0.673	0.695	0.754	0.754	0.746	0.673	0.659
156.5	0.607	0.644	0.651	0.673	0.695	0.746	0.761	0.768	0.688	0.681
157.0	0.607	0.644	0.659	0.673	0.695	0.739	0.761	0.776	0.710	0.695
157.5	0.615	0.644	0.673	0.681	0.703	0.732	0.768	0.783	0.717	0.710
158.0	0.615	0.644	0.673	0.688	0.710	0.732	0.768	0.790	0.717	0.717
158.5	0.615	0.644	0.673	0.688	0.717	0.724	0.776	0.790	0.717	0.717
159.0	0.615	0.651	0.673	0.688	0.717	0.732	0.790	0.790	0.717	0.710
159.5	0.615	0.659	0.673	0.688	0.717	0.732	0.790	0.790	0.717	0.710
160.0	0.615	0.651	0.673	0.695	0.710	0.739	0.783	0.798	0.717	0.703
160.5	0.615	0.651	0.681	0.695	0.717	0.746	0.768	0.805	0.710	0.703
161.0	0.615	0.644	0.673	0.695	0.724	0.754	0.761	0.805	0.710	0.695
161.5	0.607	0.651	0.673	0.703	0.732	0.754	0.761	0.812	0.710	0.695
162.0	0.607	0.651	0.681	0.710	0.732	0.754	0.768	0.812	0.710	0.695
162.5	0.615	0.659	0.688	0.710	0.739	0.761	0.783	0.805	0.710	0.703
163.0	0.615	0.666	0.695	0.717	0.746	0.768	0.790	0.812	0.710	0.703
163.5	0.615	0.666	0.703	0.724	0.754	0.776	0.798	0.820	0.717	0.710
164.0	0.615	0.666	0.710	0.732	0.761	0.783	0.805	0.812	0.717	0.710
164.5	0.622	0.673	0.717	0.746	0.768	0.790	0.812	0.812	0.717	0.717
165.0	0.629	0.688	0.724	0.754	0.783	0.798	0.820	0.820	0.724	0.724
165.5	0.644	0.695	0.739	0.761	0.798	0.805	0.820	0.820	0.732	0.732
166.0	0.651	0.703	0.746	0.768	0.798	0.805	0.820	0.827	0.739	0.739
166.5	0.659	0.710	0.761	0.776	0.798	0.812	0.820	0.834	0.746	0.746
167.0	0.666	0.717	0.761	0.783	0.805	0.820	0.827	0.834	0.746	0.746
167.5	0.673	0.717	0.768	0.798	0.812	0.820	0.834	0.849	0.754	0.761
168.0	0.681	0.717	0.768	0.798	0.812	0.827	0.842	0.856	0.768	0.768
168.5	0.681	0.717	0.768	0.790	0.812	0.834	0.842	0.864	0.776	0.776
169.0	0.681	0.724	0.768	0.790	0.812	0.834	0.842	0.864	0.783	0.776
169.5	0.681	0.732	0.768	0.790	0.812	0.834	0.842	0.864	0.783	0.783
170.0	0.681	0.732	0.768	0.790	0.812	0.827	0.842	0.864	0.790	0.783
170.5	0.673	0.732	0.768	0.790	0.805	0.820	0.834	0.856	0.798	0.798
171.0	0.673	0.724	0.768	0.790	0.812	0.812	0.834	0.856	0.812	0.805
171.5	0.673	0.724	0.768	0.790	0.820	0.812	0.834	0.849	0.820	0.812
172.0	0.688	0.724	0.768	0.790	0.820	0.812	0.842	0.849	0.820	0.820
172.5	0.695	0.732	0.776	0.805	0.812	0.812	0.849	0.849	0.820	0.820
173.0	0.703	0.739	0.783	0.820	0.812	0.820	0.849	0.856	0.827	0.827
173.5	0.717	0.746	0.790	0.820	0.812	0.820	0.856	0.864	0.827	0.827
174.0	0.724	0.754	0.805	0.812	0.805	0.827	0.856	0.864	0.834	0.834
174.5	0.739	0.754	0.805	0.812	0.805	0.827	0.856	0.864	0.834	0.834
175.0	0.739	0.754	0.805	0.812	0.805	0.827	0.856	0.864	0.827	0.834
175.5	0.732	0.754	0.805	0.812	0.812	0.827	0.849	0.856	0.827	0.827
176.0	0.732	0.761	0.805	0.812	0.812	0.827	0.842	0.849	0.827	0.827
176.5	0.732	0.761	0.805	0.812	0.812	0.827	0.842	0.849	0.827	0.827
177.0	0.732	0.761	0.812	0.812	0.812	0.820	0.834	0.849	0.827	0.827
177.5	0.739	0.761	0.812	0.812	0.805	0.812	0.827	0.842	0.827	0.827
178.0	0.739	0.761	0.805	0.805	0.798	0.805	0.820	0.834	0.827	0.827
178.5	0.746	0.761	0.805	0.798	0.790	0.798	0.812	0.834	0.827	0.827
179.0	0.754	0.768	0.805	0.790	0.783	0.790	0.805	0.827	0.827	0.827
179.5	0.761	0.768	0.805	0.790	0.776	0.776	0.798	0.820	0.827	0.827
180.0	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834

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CANDELA TABULATION - (Cont.)

Vert. Angles	Horizontal Angles									
	200	210	220	230	240	250	260	270	280	290
0.0	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658
0.5	1551.160	1551.131	1551.299	1550.999	1551.131	1551.138	1551.292	1551.328	1551.475	1551.482
1.0	1550.472	1550.618	1550.604	1550.479	1550.435	1550.611	1550.589	1550.633	1550.948	1551.284
1.5	1550.113	1550.238	1549.909	1549.777	1549.733	1549.894	1549.769	1550.106	1550.238	1550.567
2.0	1549.411	1549.199	1549.191	1548.891	1549.001	1548.847	1548.899	1549.060	1549.367	1549.755
2.5	1548.708	1548.482	1548.299	1548.013	1547.808	1547.991	1548.035	1548.189	1548.650	1549.052
3.0	1547.816	1547.340	1547.091	1546.989	1546.945	1547.274	1547.325	1547.486	1547.677	1548.181
3.5	1546.593	1546.271	1545.942	1546.059	1546.110	1546.118	1546.440	1546.586	1546.791	1547.464
4.0	1545.284	1544.896	1544.559	1544.427	1544.552	1544.896	1545.057	1545.203	1545.745	1546.257
4.5	1543.893	1543.505	1543.337	1543.213	1542.986	1543.161	1543.659	1543.820	1544.186	1544.866
5.0	1542.671	1542.269	1541.925	1541.647	1541.405	1541.566	1542.056	1542.503	1542.766	1543.615
5.5	1541.083	1540.834	1540.183	1539.883	1539.619	1539.802	1540.124	1540.549	1541.003	1541.969
6.0	1539.517	1539.114	1538.763	1538.295	1537.534	1538.031	1537.988	1538.624	1539.261	1540.059
6.5	1537.929	1537.468	1536.948	1536.195	1535.565	1535.748	1535.734	1536.348	1537.292	1538.141
7.0	1536.121	1535.346	1534.863	1534.058	1533.802	1533.458	1533.458	1534.065	1534.848	1536.034
7.5	1534.043	1533.282	1532.594	1531.979	1531.870	1531.540	1531.196	1531.643	1532.755	1533.963
8.0	1532.097	1531.152	1529.967	1529.704	1529.082	1529.082	1528.869	1529.330	1530.296	1531.957
8.5	1529.630	1528.511	1527.662	1527.237	1526.425	1526.242	1526.066	1526.513	1527.669	1529.008
9.0	1526.996	1525.884	1525.203	1524.713	1523.783	1523.278	1523.234	1523.695	1525.196	1526.681
9.5	1524.376	1523.615	1522.561	1521.595	1520.658	1520.468	1520.249	1520.688	1522.210	1523.725
10.0	1521.581	1520.827	1519.605	1518.653	1517.687	1517.182	1517.270	1517.424	1519.092	1520.798
10.5	1519.136	1518.017	1516.802	1515.668	1514.380	1513.838	1513.809	1514.124	1515.931	1517.783
11.0	1516.370	1515.243	1513.684	1512.557	1511.240	1510.377	1510.333	1511.006	1512.784	1514.475
11.5	1513.348	1511.921	1510.465	1509.367	1507.552	1507.171	1506.623	1507.654	1509.250	1511.182
12.0	1510.347	1509.111	1507.025	1505.532	1503.930	1503.381	1503.095	1503.944	1505.466	1507.647
12.5	1507.215	1505.430	1503.673	1502.546	1500.234	1499.692	1499.239	1500.322	1501.595	1504.134
13.0	1503.571	1502.107	1499.875	1498.382	1496.385	1495.872	1495.507	1496.319	1497.753	1500.307
13.5	1500.256	1498.785	1496.209	1494.402	1492.594	1491.723	1491.701	1492.001	1493.948	1496.319
14.0	1496.597	1494.402	1492.184	1490.208	1488.364	1487.471	1486.959	1487.779	1489.542	1492.184
14.5	1492.726	1490.691	1487.984	1486.169	1483.988	1483.103	1482.473	1483.425	1485.364	1488.174
15.0	1488.701	1486.454	1483.725	1481.617	1479.561	1478.697	1478.090	1478.982	1481.127	1483.629
15.5	1484.603	1482.202	1479.304	1477.007	1474.972	1473.948	1473.340	1474.065	1476.202	1479.026
16.0	1480.578	1477.804	1474.899	1472.623	1470.574	1469.045	1468.467	1469.315	1471.116	1474.306
16.5	1476.209	1473.311	1470.201	1467.566	1465.510	1464.493	1463.454	1464.434	1466.271	1469.557
17.0	1471.855	1468.796	1465.495	1462.890	1460.585	1459.260	1458.514	1459.224	1461.419	1464.544
17.5	1467.303	1463.995	1460.556	1457.958	1455.177	1453.831	1453.296	1454.109	1456.297	1459.443
18.0	1462.707	1459.268	1455.623	1452.821	1449.784	1448.584	1447.881	1448.657	1450.698	1454.204
18.5	1457.629	1453.999	1450.179	1447.047	1444.120	1443.088	1442.407	1443.219	1445.444	1449.096
19.0	1452.667	1448.884	1444.910	1441.266	1438.316	1437.255	1436.414	1437.621	1439.641	1443.761
19.5	1447.420	1443.490	1439.670	1435.865	1432.447	1431.350	1430.684	1431.672	1433.867	1438.060
20.0	1442.166	1438.089	1434.065	1430.128	1426.812	1425.612	1424.771	1425.583	1427.932	1432.286
20.5	1436.728	1432.520	1428.152	1424.478	1420.870	1419.494	1418.858	1419.429	1422.144	1426.190
21.0	1430.932	1426.644	1421.939	1417.658	1414.679	1413.464	1412.637	1413.333	1416.011	1419.670
21.5	1425.429	1420.658	1415.953	1411.840	1408.525	1406.937	1406.461	1407.134	1409.637	1413.662
22.0	1419.260	1414.496	1409.857	1405.510	1402.326	1400.541	1399.875	1400.490	1403.146	1407.588
22.5	1412.806	1408.678	1403.490	1399.011	1395.572	1393.991	1393.494	1393.955	1396.845	1401.170
23.0	1406.886	1402.239	1397.050	1392.403	1388.913	1387.032	1386.498	1387.559	1390.193	1394.218
23.5	1400.563	1395.587	1390.398	1385.415	1381.756	1380.007	1379.465	1380.182	1383.029	1387.398
24.0	1394.394	1388.722	1383.563	1378.580	1374.869	1373.128	1372.381	1373.215	1375.989	1380.475
24.5	1387.105	1381.763	1376.435	1371.269	1367.449	1365.744	1364.909	1365.722	1368.825	1373.011
25.0	1380.277	1374.723	1368.876	1363.731	1359.501	1358.126	1357.284	1358.499	1361.082	1365.693
25.5	1372.974	1367.354	1361.390	1356.596	1352.030	1350.186	1349.300	1350.295	1353.223	1358.631
26.0	1365.590	1359.509	1353.698	1348.517	1344.507	1342.436	1341.521	1342.765	1345.531	1350.559

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26.5	1358.133	1352.103	1345.934	1340.775	1336.889	1334.503	1333.771	1334.789	1337.760	1342.480
27.0	1350.164	1344.434	1338.411	1332.776	1328.363	1326.117	1325.224	1326.102	1329.417	1334.357
27.5	1342.692	1336.377	1330.171	1324.924	1320.489	1317.796	1317.035	1317.628	1321.016	1326.688
28.0	1334.437	1328.173	1321.528	1316.311	1311.847	1309.754	1308.275	1309.205	1312.535	1317.738
28.5	1326.256	1319.655	1313.142	1307.653	1303.153	1300.709	1299.245	1300.167	1303.621	1309.029
29.0	1317.950	1311.005	1304.946	1298.835	1294.283	1291.327	1290.244	1291.093	1294.796	1300.043
29.5	1309.585	1302.253	1295.747	1289.937	1285.187	1282.084	1281.031	1281.587	1285.421	1291.005
30.0	1300.248	1293.259	1286.900	1280.599	1276.003	1273.398	1271.795	1272.373	1276.574	1281.982
30.5	1291.151	1284.163	1277.313	1271.210	1266.102	1263.650	1262.172	1263.028	1266.607	1272.154
31.0	1281.879	1274.913	1268.187	1261.938	1256.493	1253.515	1251.920	1252.951	1256.654	1262.575
31.5	1272.425	1265.070	1258.469	1252.242	1247.134	1243.467	1241.857	1243.248	1246.826	1252.739
32.0	1262.684	1255.286	1248.722	1241.865	1236.998	1233.727	1231.985	1232.651	1236.376	1242.487
32.5	1252.754	1245.202	1238.411	1231.510	1226.241	1223.057	1221.601	1222.289	1225.677	1232.381
33.0	1242.538	1235.286	1228.202	1221.447	1215.813	1212.102	1210.814	1211.078	1215.352	1221.396
33.5	1232.483	1224.894	1217.474	1210.822	1205.765	1201.220	1199.852	1200.423	1204.279	1210.997
34.0	1221.667	1213.668	1206.248	1199.837	1194.327	1190.500	1188.582	1188.948	1192.856	1199.954
34.5	1210.939	1203.248	1195.681	1188.707	1182.501	1178.352	1176.947	1177.166	1181.396	1188.136
35.0	1200.072	1191.905	1184.806	1177.722	1171.070	1166.123	1164.813	1165.267	1169.292	1176.720
35.5	1188.560	1180.920	1172.922	1166.021	1159.654	1154.576	1152.475	1153.024	1157.554	1164.835
36.0	1177.532	1169.160	1161.572	1154.400	1147.265	1142.625	1140.188	1140.605	1145.450	1153.068
36.5	1165.992	1157.956	1149.863	1142.120	1134.714	1129.599	1127.404	1127.265	1132.270	1140.327
37.0	1154.341	1145.713	1138.176	1130.214	1122.186	1116.127	1113.946	1114.290	1119.325	1128.223
37.5	1142.157	1133.397	1125.230	1117.312	1109.343	1102.910	1100.437	1100.766	1105.955	1115.073
38.0	1130.507	1121.008	1112.775	1104.637	1095.834	1088.889	1085.786	1086.160	1091.948	1101.952
38.5	1117.876	1109.343	1100.283	1091.582	1082.113	1074.861	1071.136	1071.553	1077.941	1088.187
39.0	1105.582	1096.229	1087.228	1077.766	1068.391	1060.832	1056.492	1056.946	1063.942	1074.414
39.5	1093.221	1083.137	1074.173	1063.949	1054.678	1046.803	1041.842	1042.332	1049.935	1060.642
40.0	1080.151	1070.038	1061.117	1050.133	1040.956	1032.767	1027.184	1027.696	1035.921	1046.877
40.5	1067.074	1056.946	1048.062	1036.419	1027.213	1017.370	1011.735	1012.109	1019.763	1033.067
41.0	1053.997	1043.854	1034.963	1024.344	1012.533	1002.017	995.848	996.360	1004.242	1018.124
41.5	1040.920	1030.733	1020.590	1009.203	997.436	986.379	979.163	979.895	987.908	1002.734
42.0	1027.813	1017.261	1006.657	995.233	982.244	970.447	963.181	963.459	971.611	987.125
42.5	1013.828	1003.715	992.489	980.788	967.242	954.392	946.547	946.400	955.284	971.245
43.0	999.946	989.152	977.978	966.122	951.947	938.365	929.752	929.825	939.324	955.980
43.5	985.478	974.582	963.246	950.637	935.958	921.841	912.357	912.599	922.207	939.690
44.0	972.050	959.939	948.815	935.972	920.019	905.237	895.526	894.874	904.534	923.232
44.5	957.026	945.815	934.296	920.714	904.563	888.032	877.648	877.304	887.439	906.561
45.0	941.929	930.681	918.775	905.141	888.186	870.747	859.675	859.404	870.176	889.942
45.5	927.271	916.001	903.897	889.583	871.640	853.674	841.614	841.248	852.474	872.957
46.0	913.389	901.468	889.379	874.655	855.160	836.096	824.182	823.224	834.472	856.265
46.5	897.794	886.159	874.516	858.950	839.045	818.291	806.085	805.536	816.886	838.753
47.0	882.412	870.923	858.877	842.756	821.797	800.428	788.053	787.205	798.943	821.145
47.5	867.220	855.994	843.539	826.590	803.802	782.448	769.524	768.756	780.706	803.238
48.0	853.220	841.153	828.471	810.871	786.978	764.702	752.093	750.973	762.638	786.122
48.5	836.821	825.588	813.096	794.391	770.000	747.461	734.456	734.083	745.360	768.222
49.0	821.599	810.498	797.757	778.028	752.576	729.846	717.684	717.157	728.104	751.149
49.5	806.319	795.620	782.382	761.240	735.086	712.327	700.420	699.967	710.951	733.534
50.0	790.739	780.509	766.590	745.031	717.874	695.495	684.057	683.377	693.856	716.000
50.5	775.320	764.965	750.951	728.295	700.845	679.425	667.914	667.314	677.537	698.810
51.0	759.887	749.451	734.749	711.105	683.640	662.850	652.100	651.536	661.159	682.162
51.5	744.768	734.420	719.594	694.288	666.875	646.597	636.432	636.146	645.499	665.762
52.0	729.187	719.147	703.362	677.991	650.775	630.804	621.298	621.145	629.853	649.612
52.5	714.017	703.765	687.263	661.196	634.785	616.227	606.728	606.509	615.129	633.505
53.0	698.540	688.324	670.995	644.423	618.371	600.691	592.055	592.187	600.054	617.998
53.5	683.604	673.080	655.393	628.272	602.615	585.550	577.266	577.522	585.462	602.608
54.0	668.492	657.522	638.942	612.407	587.635	571.228	563.274	563.720	571.616	587.526

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54.5	653.175	642.059	622.791	595.897	572.612	557.493	549.743	550.101	557.236	572.890
55.0	637.895	627.123	607.072	580.069	557.551	543.032	536.402	536.702	543.559	559.161
55.5	623.128	611.858	591.214	565.213	543.303	529.077	523.003	523.178	529.948	546.223
56.0	608.521	596.578	575.546	550.526	529.801	516.161	510.328	510.950	517.039	530.643
56.5	593.343	581.115	559.951	535.129	515.312	503.478	497.639	498.187	504.444	517.046
57.0	578.473	566.362	544.847	520.215	501.488	490.130	485.169	485.754	492.216	503.661
57.5	563.889	551.016	529.801	506.398	488.359	477.060	473.182	473.475	479.329	490.665
58.0	549.223	536.102	514.631	492.648	475.714	465.454	461.437	462.263	467.196	477.931
58.5	534.887	521.627	500.288	478.809	462.739	453.775	449.962	450.942	455.692	465.835
59.0	521.005	507.255	486.376	465.652	450.328	441.736	438.714	439.761	444.203	453.628
59.5	507.181	492.926	472.582	452.948	438.407	430.137	427.993	428.886	432.962	441.817
60.0	493.211	479.102	458.736	439.922	426.910	419.468	417.192	418.355	422.183	430.174
60.5	479.395	465.066	445.161	427.503	414.792	408.601	406.808	407.913	411.491	418.868
61.0	466.354	451.769	432.552	415.531	403.676	397.675	396.409	397.733	401.056	407.839
61.5	453.577	438.553	420.134	404.144	392.940	387.422	386.654	387.891	391.103	397.433
62.0	440.829	425.827	408.044	392.494	382.439	377.762	376.921	378.326	381.400	386.866
62.5	428.388	413.167	395.992	381.304	371.557	367.678	367.503	368.761	371.352	376.548
63.0	416.277	401.414	384.517	370.430	361.495	357.814	357.960	359.204	362.051	366.478
63.5	404.598	389.720	373.211	360.236	351.806	348.578	348.725	350.071	352.757	356.848
64.0	393.145	377.902	362.226	349.435	341.999	339.599	339.650	341.180	343.653	347.246
64.5	382.146	367.093	351.688	339.541	332.391	330.525	331.074	332.398	334.601	338.048
65.0	371.659	356.731	341.677	329.917	323.463	321.604	322.248	323.858	326.119	329.149
65.5	361.151	346.398	331.593	320.770	314.689	313.057	313.942	315.311	317.521	320.228
66.0	351.008	336.335	321.743	311.154	305.812	305.051	305.761	307.144	309.164	311.520
66.5	341.494	326.807	312.464	302.248	297.125	296.650	297.579	299.357	301.033	303.163
67.0	332.376	317.689	303.821	293.679	289.068	288.717	289.807	291.498	293.371	295.113
67.5	323.082	308.593	294.645	285.387	281.143	281.019	282.270	283.843	285.512	287.107
68.0	314.447	300.009	286.170	276.972	273.239	273.832	274.930	276.401	277.938	279.196
68.5	306.222	291.915	278.194	269.207	265.599	266.426	267.831	269.493	270.832	271.864
69.0	298.216	283.777	270.495	261.567	258.479	259.335	260.645	262.365	263.836	264.604
69.5	290.188	275.793	262.380	254.066	251.344	252.310	253.759	255.406	256.723	257.447
70.0	282.548	268.307	255.047	246.558	244.289	245.804	247.070	248.453	249.719	250.466
70.5	275.164	261.179	248.007	239.840	237.667	239.108	240.638	242.123	243.199	243.689
71.0	267.992	254.147	241.209	233.210	231.381	232.793	234.191	235.669	236.781	237.345
71.5	260.887	247.078	234.315	226.653	225.160	226.668	227.831	229.324	230.371	231.022
72.0	254.037	240.455	228.022	220.316	219.079	220.645	221.772	223.148	224.048	224.794
72.5	247.180	234.037	221.662	214.359	213.188	214.505	215.632	216.993	217.850	218.669
73.0	240.448	227.568	215.603	208.453	207.326	208.629	209.529	210.714	211.834	212.588
73.5	233.766	221.201	209.485	202.694	201.552	202.745	203.499	204.619	205.760	206.668
74.0	227.297	215.098	203.858	197.066	195.925	196.979	197.586	198.596	199.598	200.821
74.5	220.908	209.105	198.259	191.702	190.334	190.897	191.490	192.419	193.532	195.025
75.0	214.308	203.009	192.632	186.324	184.626	185.109	185.343	186.060	187.333	188.980
75.5	207.868	196.986	186.938	180.696	178.896	178.947	179.211	179.869	181.077	182.818
76.0	201.472	191.036	181.603	175.339	172.968	172.749	172.946	173.576	174.790	176.664
76.5	195.003	185.058	176.159	169.807	167.246	166.558	166.697	167.319	168.526	170.597
77.0	188.563	178.910	170.553	164.238	161.172	160.542	160.462	161.055	162.306	164.443
77.5	182.035	172.866	164.823	158.544	154.893	154.146	154.168	154.622	155.873	157.944
78.0	175.691	166.850	159.342	152.785	148.899	147.809	147.824	148.146	149.499	151.585
78.5	169.968	160.645	153.568	146.938	142.957	141.581	141.376	141.859	143.206	145.321
79.0	162.657	154.256	147.480	140.820	136.517	135.171	134.973	135.405	136.766	139.115
79.5	156.181	148.007	141.398	134.578	130.026	128.519	128.299	128.738	130.114	132.280
80.0	149.558	141.655	135.112	128.050	123.528	121.867	121.625	122.079	123.425	125.511
80.5	143.001	135.163	128.263	121.530	117.022	115.215	114.951	115.419	116.737	118.749
81.0	136.510	128.233	121.413	115.010	110.524	108.555	108.284	108.760	110.048	111.980
81.5	130.004	121.303	114.563	108.482	104.018	101.889	101.610	102.093	103.352	105.211
82.0	123.038	114.373	107.714	101.947	97.161	94.980	94.724	95.266	96.407	98.442

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CANDELA TABULATION - (Cont.)

82.5	116.071	107.443	100.849	94.753	90.172	88.160	87.736	88.160	89.433	91.285
83.0	109.104	100.505	93.363	87.494	82.840	80.937	80.527	80.952	82.240	84.435
83.5	102.130	93.326	85.928	79.942	75.793	73.773	73.260	73.795	74.849	76.810
84.0	94.907	85.694	78.471	72.551	68.614	66.843	66.133	66.718	67.809	69.638
84.5	87.450	78.098	70.655	64.881	61.252	59.612	58.925	59.547	60.644	62.459
85.0	79.283	70.165	62.488	57.183	53.582	52.258	51.614	52.082	53.370	55.317
85.5	71.204	62.379	54.644	49.323	46.308	45.130	44.537	45.072	46.250	47.794
86.0	62.759	54.095	46.674	41.603	39.012	38.185	37.549	38.288	39.159	40.959
86.5	54.146	45.942	38.661	34.087	31.848	31.123	30.531	31.358	32.192	33.977
87.0	45.613	37.483	30.933	28.482	25.935	25.313	24.896	25.562	26.316	27.289
87.5	36.875	30.136	24.903	22.876	20.022	19.502	19.254	19.773	20.432	21.961
88.0	29.601	22.781	18.873	17.270	14.109	13.685	13.619	13.985	14.556	16.641
88.5	22.335	15.434	12.843	11.672	8.196	7.874	7.984	8.189	8.672	11.321
89.0	15.060	8.086	6.813	6.067	2.415	2.276	2.364	2.459	2.942	5.993
89.5	7.786	1.200	0.849	0.644	0.527	0.395	0.432	0.461	0.666	0.776
90.0	0.951	0.929	0.710	0.542	0.373	0.271	0.256	0.256	0.256	0.293
90.5	0.907	0.951	0.732	0.556	0.381	0.278	0.256	0.256	0.263	0.300
91.0	0.893	0.959	0.739	0.563	0.388	0.285	0.263	0.271	0.271	0.315
91.5	0.893	0.944	0.739	0.563	0.388	0.293	0.278	0.285	0.293	0.337
92.0	0.922	0.929	0.739	0.571	0.402	0.307	0.285	0.293	0.300	0.351
92.5	0.929	0.981	0.790	0.578	0.417	0.322	0.300	0.307	0.315	0.366
93.0	1.003	0.951	0.783	0.600	0.424	0.329	0.307	0.307	0.315	0.366
93.5	1.032	0.995	0.754	0.585	0.439	0.337	0.307	0.307	0.315	0.366
94.0	1.098	1.025	0.783	0.585	0.432	0.337	0.307	0.307	0.315	0.373
94.5	1.142	1.025	0.812	0.600	0.432	0.337	0.315	0.315	0.322	0.373
95.0	1.164	1.017	0.842	0.615	0.439	0.344	0.315	0.315	0.322	0.381
95.5	1.178	1.017	0.827	0.629	0.446	0.344	0.322	0.322	0.329	0.373
96.0	1.178	1.032	0.820	0.629	0.454	0.344	0.322	0.329	0.329	0.373
96.5	1.193	1.054	0.812	0.622	0.461	0.351	0.329	0.329	0.337	0.381
97.0	1.215	1.090	0.798	0.615	0.461	0.359	0.329	0.329	0.337	0.381
97.5	1.207	1.120	0.790	0.607	0.468	0.359	0.337	0.337	0.344	0.381
98.0	1.207	1.098	0.798	0.600	0.468	0.366	0.337	0.337	0.344	0.388
98.5	1.200	1.098	0.820	0.600	0.468	0.366	0.344	0.344	0.351	0.388
99.0	1.186	1.098	0.842	0.600	0.468	0.373	0.351	0.351	0.351	0.395
99.5	1.164	1.090	0.856	0.600	0.476	0.373	0.351	0.351	0.359	0.395
100.0	1.156	1.083	0.871	0.615	0.476	0.381	0.359	0.359	0.359	0.395
100.5	1.149	1.076	0.864	0.622	0.476	0.388	0.359	0.359	0.366	0.402
101.0	1.142	1.090	0.856	0.637	0.483	0.395	0.366	0.366	0.366	0.410
101.5	1.149	1.112	0.842	0.644	0.490	0.395	0.373	0.373	0.373	0.410
102.0	1.142	1.112	0.834	0.644	0.498	0.402	0.373	0.373	0.381	0.417
102.5	1.134	1.083	0.834	0.637	0.512	0.410	0.381	0.381	0.388	0.432
103.0	1.120	1.054	0.842	0.637	0.520	0.417	0.395	0.395	0.395	0.439
103.5	1.105	1.046	0.849	0.637	0.520	0.432	0.402	0.402	0.402	0.446
104.0	1.090	1.039	0.856	0.637	0.527	0.439	0.410	0.410	0.410	0.454
104.5	1.076	1.039	0.864	0.637	0.527	0.439	0.417	0.417	0.417	0.454
105.0	1.061	1.025	0.864	0.644	0.527	0.446	0.424	0.424	0.424	0.454
105.5	1.054	1.025	0.849	0.644	0.527	0.446	0.424	0.424	0.424	0.461
106.0	1.054	1.025	0.827	0.644	0.534	0.446	0.424	0.432	0.424	0.461
106.5	1.054	1.017	0.805	0.644	0.534	0.446	0.424	0.432	0.424	0.461
107.0	1.054	0.988	0.790	0.637	0.534	0.446	0.432	0.432	0.424	0.461
107.5	1.061	0.966	0.783	0.637	0.527	0.439	0.432	0.432	0.424	0.461
108.0	1.061	0.944	0.783	0.629	0.527	0.439	0.432	0.432	0.424	0.461
108.5	1.046	0.929	0.790	0.622	0.527	0.439	0.424	0.432	0.424	0.454
109.0	1.039	0.907	0.790	0.615	0.527	0.439	0.424	0.424	0.424	0.454
109.5	1.025	0.893	0.783	0.615	0.520	0.439	0.424	0.424	0.424	0.454
110.0	1.003	0.885	0.776	0.607	0.520	0.439	0.424	0.424	0.424	0.446

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110.5	0.988	0.878	0.761	0.600	0.520	0.439	0.424	0.424	0.417	0.446
111.0	0.981	0.864	0.746	0.600	0.512	0.439	0.417	0.417	0.417	0.439
111.5	0.951	0.842	0.739	0.600	0.505	0.432	0.417	0.417	0.417	0.439
112.0	0.929	0.834	0.724	0.600	0.498	0.432	0.410	0.417	0.410	0.432
112.5	0.907	0.820	0.710	0.585	0.498	0.432	0.410	0.410	0.410	0.432
113.0	0.900	0.805	0.695	0.578	0.490	0.424	0.402	0.410	0.410	0.432
113.5	0.871	0.805	0.688	0.571	0.483	0.424	0.402	0.402	0.402	0.424
114.0	0.856	0.790	0.673	0.563	0.483	0.417	0.395	0.402	0.402	0.424
114.5	0.842	0.776	0.673	0.549	0.483	0.417	0.395	0.395	0.395	0.417
115.0	0.834	0.768	0.666	0.542	0.468	0.417	0.395	0.395	0.395	0.410
115.5	0.820	0.761	0.659	0.534	0.461	0.410	0.388	0.388	0.388	0.410
116.0	0.812	0.739	0.644	0.527	0.454	0.410	0.388	0.388	0.388	0.402
116.5	0.812	0.732	0.637	0.520	0.446	0.402	0.388	0.381	0.388	0.395
117.0	0.805	0.717	0.622	0.512	0.446	0.402	0.381	0.381	0.381	0.395
117.5	0.790	0.710	0.622	0.505	0.439	0.395	0.381	0.373	0.381	0.395
118.0	0.783	0.703	0.615	0.498	0.432	0.395	0.373	0.373	0.373	0.395
118.5	0.783	0.695	0.615	0.498	0.432	0.388	0.373	0.366	0.373	0.388
119.0	0.776	0.695	0.607	0.490	0.424	0.381	0.366	0.366	0.366	0.388
119.5	0.783	0.688	0.607	0.476	0.424	0.381	0.366	0.359	0.366	0.381
120.0	0.783	0.695	0.607	0.476	0.417	0.373	0.359	0.359	0.359	0.381
120.5	0.776	0.703	0.600	0.468	0.410	0.373	0.359	0.351	0.359	0.381
121.0	0.768	0.703	0.600	0.461	0.410	0.373	0.351	0.344	0.351	0.381
121.5	0.768	0.703	0.593	0.461	0.402	0.366	0.351	0.344	0.351	0.381
122.0	0.768	0.695	0.600	0.468	0.402	0.366	0.344	0.344	0.351	0.381
122.5	0.768	0.695	0.593	0.468	0.402	0.366	0.344	0.337	0.351	0.381
123.0	0.761	0.695	0.593	0.468	0.402	0.373	0.344	0.337	0.344	0.381
123.5	0.761	0.695	0.585	0.468	0.402	0.366	0.351	0.337	0.344	0.381
124.0	0.754	0.695	0.585	0.468	0.402	0.373	0.351	0.337	0.351	0.381
124.5	0.754	0.703	0.585	0.468	0.402	0.373	0.351	0.344	0.351	0.381
125.0	0.754	0.703	0.593	0.483	0.410	0.373	0.359	0.351	0.351	0.388
125.5	0.761	0.710	0.600	0.476	0.410	0.381	0.359	0.351	0.351	0.388
126.0	0.754	0.703	0.607	0.476	0.417	0.381	0.366	0.359	0.359	0.402
126.5	0.761	0.710	0.615	0.476	0.417	0.388	0.373	0.366	0.366	0.395
127.0	0.754	0.703	0.615	0.476	0.424	0.388	0.381	0.373	0.366	0.395
127.5	0.739	0.710	0.615	0.476	0.424	0.395	0.381	0.373	0.373	0.402
128.0	0.761	0.710	0.615	0.476	0.424	0.402	0.388	0.381	0.381	0.410
128.5	0.761	0.703	0.607	0.476	0.424	0.410	0.395	0.388	0.388	0.410
129.0	0.768	0.710	0.607	0.483	0.424	0.417	0.402	0.395	0.395	0.417
129.5	0.761	0.710	0.607	0.498	0.432	0.424	0.410	0.410	0.402	0.424
130.0	0.739	0.703	0.607	0.505	0.432	0.432	0.417	0.417	0.410	0.432
130.5	0.739	0.695	0.615	0.512	0.439	0.439	0.424	0.424	0.417	0.432
131.0	0.746	0.681	0.615	0.520	0.446	0.446	0.432	0.432	0.424	0.439
131.5	0.739	0.695	0.615	0.520	0.461	0.454	0.446	0.439	0.432	0.446
132.0	0.739	0.695	0.622	0.527	0.476	0.454	0.454	0.446	0.439	0.446
132.5	0.754	0.688	0.615	0.527	0.483	0.461	0.454	0.454	0.446	0.454
133.0	0.739	0.703	0.615	0.534	0.498	0.468	0.461	0.461	0.446	0.461
133.5	0.732	0.703	0.622	0.542	0.505	0.476	0.468	0.468	0.454	0.468
134.0	0.739	0.695	0.622	0.549	0.512	0.483	0.476	0.476	0.461	0.483
134.5	0.732	0.695	0.622	0.556	0.520	0.498	0.483	0.476	0.468	0.490
135.0	0.732	0.695	0.622	0.556	0.534	0.505	0.490	0.483	0.483	0.498
135.5	0.732	0.695	0.607	0.563	0.549	0.512	0.505	0.490	0.490	0.498
136.0	0.732	0.695	0.600	0.571	0.549	0.520	0.512	0.505	0.498	0.505
136.5	0.717	0.695	0.600	0.578	0.549	0.527	0.527	0.512	0.505	0.520
137.0	0.724	0.695	0.600	0.578	0.556	0.534	0.534	0.520	0.512	0.527
137.5	0.739	0.695	0.585	0.585	0.563	0.542	0.542	0.527	0.520	0.527
138.0	0.732	0.688	0.571	0.585	0.563	0.549	0.549	0.542	0.527	0.542

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138.5	0.732	0.681	0.571	0.585	0.571	0.549	0.556	0.549	0.534	0.549
139.0	0.739	0.666	0.585	0.593	0.571	0.563	0.563	0.556	0.534	0.549
139.5	0.739	0.659	0.578	0.593	0.578	0.563	0.563	0.556	0.542	0.549
140.0	0.732	0.659	0.585	0.585	0.585	0.571	0.571	0.571	0.549	0.556
140.5	0.732	0.651	0.600	0.571	0.593	0.578	0.578	0.578	0.549	0.563
141.0	0.724	0.659	0.607	0.571	0.593	0.578	0.585	0.585	0.556	0.563
141.5	0.724	0.659	0.615	0.578	0.600	0.585	0.585	0.585	0.563	0.571
142.0	0.710	0.644	0.629	0.593	0.607	0.593	0.593	0.593	0.571	0.571
142.5	0.710	0.637	0.644	0.600	0.615	0.593	0.593	0.593	0.571	0.571
143.0	0.710	0.637	0.651	0.615	0.600	0.600	0.600	0.600	0.578	0.578
143.5	0.688	0.629	0.651	0.622	0.600	0.600	0.600	0.607	0.585	0.578
144.0	0.688	0.629	0.651	0.629	0.600	0.607	0.607	0.607	0.593	0.571
144.5	0.695	0.637	0.644	0.629	0.600	0.607	0.615	0.615	0.593	0.563
145.0	0.673	0.651	0.651	0.637	0.600	0.600	0.622	0.622	0.593	0.563
145.5	0.659	0.651	0.651	0.644	0.607	0.600	0.622	0.622	0.578	0.556
146.0	0.659	0.651	0.651	0.659	0.607	0.600	0.607	0.615	0.578	0.556
146.5	0.659	0.659	0.644	0.681	0.615	0.600	0.607	0.615	0.571	0.556
147.0	0.666	0.666	0.644	0.673	0.615	0.600	0.607	0.615	0.563	0.556
147.5	0.666	0.673	0.644	0.666	0.615	0.607	0.615	0.622	0.556	0.556
148.0	0.681	0.673	0.644	0.666	0.622	0.615	0.615	0.615	0.556	0.556
148.5	0.681	0.673	0.659	0.659	0.629	0.615	0.622	0.615	0.556	0.556
149.0	0.681	0.681	0.673	0.659	0.629	0.615	0.622	0.615	0.556	0.556
149.5	0.688	0.673	0.688	0.659	0.637	0.615	0.622	0.607	0.556	0.563
150.0	0.688	0.673	0.688	0.659	0.644	0.629	0.615	0.593	0.556	0.563
150.5	0.681	0.659	0.681	0.659	0.637	0.637	0.615	0.593	0.563	0.571
151.0	0.688	0.659	0.681	0.666	0.629	0.659	0.615	0.585	0.578	0.571
151.5	0.688	0.666	0.681	0.666	0.622	0.681	0.622	0.593	0.585	0.578
152.0	0.695	0.666	0.688	0.659	0.622	0.695	0.629	0.600	0.593	0.578
152.5	0.688	0.666	0.703	0.659	0.629	0.695	0.629	0.600	0.600	0.578
153.0	0.688	0.673	0.710	0.666	0.629	0.681	0.629	0.607	0.600	0.585
153.5	0.695	0.673	0.688	0.666	0.637	0.681	0.622	0.607	0.600	0.585
154.0	0.695	0.673	0.681	0.666	0.637	0.666	0.615	0.607	0.600	0.593
154.5	0.703	0.673	0.681	0.666	0.637	0.651	0.615	0.607	0.607	0.593
155.0	0.710	0.673	0.695	0.666	0.644	0.651	0.622	0.615	0.615	0.593
155.5	0.717	0.673	0.717	0.666	0.651	0.644	0.622	0.615	0.615	0.593
156.0	0.717	0.673	0.717	0.666	0.651	0.637	0.622	0.622	0.615	0.600
156.5	0.717	0.673	0.695	0.666	0.651	0.644	0.615	0.615	0.615	0.607
157.0	0.724	0.673	0.681	0.673	0.659	0.644	0.622	0.607	0.615	0.615
157.5	0.732	0.681	0.673	0.681	0.659	0.644	0.629	0.615	0.622	0.622
158.0	0.732	0.681	0.673	0.688	0.659	0.644	0.629	0.615	0.622	0.622
158.5	0.724	0.688	0.681	0.688	0.666	0.644	0.629	0.615	0.629	0.629
159.0	0.717	0.695	0.681	0.688	0.666	0.651	0.629	0.615	0.629	0.629
159.5	0.710	0.710	0.673	0.688	0.673	0.659	0.637	0.615	0.637	0.637
160.0	0.710	0.724	0.673	0.688	0.673	0.666	0.637	0.615	0.637	0.644
160.5	0.717	0.732	0.681	0.688	0.681	0.666	0.644	0.622	0.644	0.644
161.0	0.732	0.724	0.681	0.688	0.681	0.659	0.651	0.629	0.644	0.644
161.5	0.732	0.717	0.695	0.688	0.673	0.666	0.651	0.637	0.644	0.644
162.0	0.724	0.717	0.703	0.688	0.673	0.673	0.651	0.637	0.644	0.644
162.5	0.717	0.717	0.710	0.688	0.673	0.673	0.659	0.637	0.637	0.637
163.0	0.710	0.724	0.724	0.695	0.681	0.673	0.659	0.644	0.637	0.629
163.5	0.703	0.732	0.732	0.695	0.681	0.681	0.651	0.644	0.629	0.622
164.0	0.703	0.732	0.732	0.703	0.688	0.681	0.651	0.651	0.629	0.622
164.5	0.710	0.732	0.739	0.717	0.695	0.688	0.659	0.681	0.629	0.622
165.0	0.724	0.732	0.739	0.732	0.703	0.695	0.666	0.695	0.629	0.629
165.5	0.732	0.739	0.754	0.746	0.717	0.695	0.666	0.681	0.637	0.629
166.0	0.746	0.746	0.768	0.761	0.732	0.703	0.673	0.673	0.644	0.637

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CANDELA TABULATION - (Cont.)

166.5	0.754	0.754	0.783	0.776	0.739	0.717	0.681	0.666	0.651	0.629
167.0	0.761	0.761	0.798	0.783	0.754	0.724	0.688	0.666	0.659	0.637
167.5	0.768	0.768	0.798	0.790	0.768	0.739	0.703	0.673	0.659	0.651
168.0	0.776	0.776	0.805	0.805	0.776	0.754	0.710	0.688	0.666	0.666
168.5	0.776	0.783	0.812	0.820	0.783	0.768	0.724	0.703	0.681	0.673
169.0	0.776	0.790	0.812	0.827	0.790	0.776	0.739	0.717	0.695	0.681
169.5	0.783	0.790	0.812	0.827	0.805	0.783	0.754	0.746	0.717	0.688
170.0	0.783	0.798	0.812	0.827	0.820	0.798	0.761	0.768	0.732	0.710
170.5	0.798	0.812	0.812	0.827	0.827	0.805	0.776	0.776	0.732	0.739
171.0	0.805	0.820	0.812	0.827	0.827	0.805	0.783	0.768	0.739	0.754
171.5	0.820	0.827	0.820	0.827	0.827	0.812	0.783	0.739	0.746	0.754
172.0	0.827	0.827	0.820	0.820	0.827	0.812	0.776	0.732	0.761	0.761
172.5	0.834	0.827	0.820	0.820	0.820	0.805	0.776	0.739	0.754	0.761
173.0	0.834	0.827	0.827	0.827	0.820	0.805	0.776	0.739	0.746	0.768
173.5	0.834	0.834	0.827	0.827	0.820	0.805	0.768	0.746	0.754	0.783
174.0	0.842	0.834	0.834	0.834	0.827	0.805	0.776	0.739	0.754	0.790
174.5	0.842	0.842	0.834	0.834	0.834	0.812	0.776	0.746	0.739	0.798
175.0	0.842	0.842	0.834	0.834	0.842	0.820	0.783	0.754	0.739	0.805
175.5	0.842	0.842	0.834	0.834	0.842	0.827	0.790	0.754	0.746	0.798
176.0	0.842	0.842	0.834	0.834	0.842	0.834	0.790	0.754	0.746	0.790
176.5	0.842	0.842	0.842	0.834	0.842	0.834	0.790	0.754	0.754	0.783
177.0	0.842	0.842	0.842	0.834	0.834	0.834	0.790	0.754	0.768	0.790
177.5	0.834	0.842	0.834	0.834	0.834	0.834	0.790	0.761	0.783	0.790
178.0	0.834	0.842	0.834	0.827	0.827	0.842	0.798	0.768	0.790	0.790
178.5	0.834	0.842	0.834	0.827	0.827	0.842	0.805	0.776	0.798	0.783
179.0	0.842	0.842	0.834	0.834	0.827	0.842	0.805	0.776	0.805	0.768
179.5	0.842	0.842	0.834	0.834	0.827	0.842	0.805	0.783	0.805	0.768
180.0	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834	0.834

Vert. Angles **Horizontal Angles**

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0.0	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658	1551.658
0.5	1551.658	1551.819	1551.819	1551.826	1551.819	1551.994	1551.833
1.0	1551.482	1551.475	1551.819	1551.987	1551.994	1552.170	1552.162
1.5	1550.955	1551.284	1551.789	1551.819	1551.987	1552.323	1552.016
2.0	1550.245	1550.574	1551.087	1551.467	1551.804	1552.141	1552.009
2.5	1549.550	1549.879	1550.399	1551.116	1551.445	1551.797	1551.848
3.0	1548.840	1549.177	1549.740	1550.582	1550.918	1551.438	1551.672
3.5	1547.794	1548.350	1549.038	1549.718	1550.252	1550.940	1550.999
4.0	1546.813	1547.142	1548.167	1548.847	1549.389	1550.062	1550.121
4.5	1545.598	1546.096	1546.945	1547.984	1548.511	1549.023	1549.462
5.0	1544.369	1544.874	1545.708	1547.084	1547.625	1548.130	1548.760
5.5	1542.773	1543.637	1544.391	1545.928	1546.550	1546.967	1547.559
6.0	1541.200	1542.210	1543.169	1544.369	1545.240	1545.745	1546.506
6.5	1539.275	1540.410	1541.588	1542.971	1543.849	1544.522	1545.298
7.0	1537.300	1538.485	1540.000	1541.398	1542.437	1543.293	1544.237
7.5	1535.397	1536.582	1538.258	1539.985	1540.885	1541.881	1543.095
8.0	1533.121	1534.475	1536.297	1538.024	1539.144	1540.132	1541.544
8.5	1530.662	1532.331	1533.999	1535.887	1537.380	1538.492	1539.810
9.0	1528.167	1530.055	1531.709	1533.765	1535.448	1536.721	1538.046
9.5	1525.393	1527.581	1529.608	1531.657	1533.187	1534.797	1536.158
10.0	1522.781	1524.632	1527.193	1529.374	1530.948	1532.572	1534.226
10.5	1519.795	1521.998	1524.727	1526.886	1528.818	1530.618	1532.301
11.0	1516.685	1519.400	1521.946	1524.310	1526.403	1528.203	1530.326
11.5	1513.531	1516.370	1519.129	1521.837	1523.959	1525.759	1527.559

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CANDELA TABULATION - (Cont.)

12.0	1510.150	1513.238	1515.997	1519.012	1521.646	1523.461	1525.108
12.5	1506.703	1509.733	1513.040	1516.209	1518.836	1520.849	1522.495
13.0	1503.059	1506.059	1509.879	1513.275	1516.041	1518.039	1519.714
13.5	1499.400	1502.261	1506.257	1510.150	1513.092	1515.097	1517.102
14.0	1495.353	1498.558	1502.898	1506.857	1509.769	1512.287	1514.160
14.5	1491.160	1494.731	1499.056	1503.205	1506.440	1509.455	1511.006
15.0	1487.113	1490.794	1495.287	1499.722	1502.722	1505.605	1507.669
15.5	1482.576	1486.747	1491.555	1496.026	1499.261	1502.305	1504.215
16.0	1478.470	1482.407	1487.186	1492.023	1495.397	1498.639	1500.380
16.5	1473.772	1478.185	1482.810	1488.028	1491.687	1495.455	1496.882
17.0	1469.067	1473.326	1478.368	1483.981	1487.508	1491.269	1492.931
17.5	1463.798	1468.745	1473.801	1479.553	1483.264	1487.127	1488.657
18.0	1458.704	1463.951	1469.601	1475.009	1479.004	1482.781	1484.456
18.5	1453.618	1458.543	1464.317	1470.113	1474.753	1478.529	1480.973
19.0	1448.159	1453.304	1459.363	1465.159	1470.194	1473.962	1476.714
19.5	1442.056	1448.232	1453.940	1460.131	1465.320	1469.513	1472.111
20.0	1436.487	1443.110	1449.096	1455.389	1460.402	1464.822	1467.713
20.5	1430.874	1437.014	1444.002	1450.303	1455.133	1459.912	1463.000
21.0	1424.881	1431.013	1437.928	1444.588	1450.032	1454.445	1457.892
21.5	1418.763	1425.356	1432.016	1438.938	1444.720	1449.315	1452.623
22.0	1412.572	1419.041	1426.439	1433.011	1439.216	1443.863	1447.208
22.5	1406.446	1412.916	1420.417	1427.347	1433.486	1438.346	1441.822
23.0	1399.970	1406.790	1414.160	1421.382	1427.705	1432.630	1435.931
23.5	1392.981	1400.438	1407.866	1414.921	1421.580	1426.703	1429.959
24.0	1386.146	1393.552	1401.470	1408.803	1415.309	1420.958	1423.980
24.5	1378.858	1386.307	1394.196	1402.392	1409.505	1414.262	1417.804
25.0	1371.613	1379.238	1387.215	1395.667	1402.685	1408.086	1411.371
25.5	1364.302	1372.249	1380.453	1388.298	1395.872	1401.507	1405.305
26.0	1356.743	1364.405	1373.215	1381.265	1389.037	1394.650	1398.536
26.5	1349.110	1356.984	1365.466	1374.379	1381.799	1387.742	1391.554
27.0	1340.782	1348.993	1357.474	1366.732	1374.335	1380.285	1384.353
27.5	1332.901	1341.104	1349.447	1359.245	1367.010	1373.113	1377.189
28.0	1324.653	1332.952	1341.572	1351.196	1359.238	1365.590	1369.505
28.5	1315.989	1324.265	1333.391	1343.014	1350.947	1357.548	1361.551
29.0	1307.017	1315.915	1324.536	1334.547	1342.794	1349.388	1353.684
29.5	1298.374	1307.390	1316.025	1326.197	1334.452	1341.382	1345.275
30.0	1289.505	1298.433	1307.705	1317.657	1326.490	1333.054	1336.838
30.5	1280.065	1288.956	1298.608	1308.707	1317.225	1323.973	1328.180
31.0	1270.668	1279.904	1289.344	1299.252	1308.188	1315.008	1319.333
31.5	1260.979	1270.441	1280.057	1290.229	1299.033	1306.043	1310.493
32.0	1250.895	1260.518	1270.390	1280.892	1289.578	1296.603	1301.345
32.5	1240.730	1250.441	1260.482	1271.473	1279.882	1287.046	1291.978
33.0	1230.200	1240.438	1250.697	1261.052	1269.995	1277.752	1281.989
33.5	1219.889	1230.405	1240.994	1250.968	1260.138	1267.551	1271.920
34.0	1208.904	1219.501	1230.273	1240.804	1249.644	1257.174	1262.172
34.5	1197.540	1208.231	1219.581	1230.149	1239.047	1246.636	1251.707
35.0	1186.182	1197.861	1208.385	1218.901	1228.575	1236.318	1241.616
35.5	1174.971	1186.519	1197.540	1207.894	1217.408	1225.948	1231.019
36.0	1163.189	1174.554	1186.365	1197.042	1206.592	1215.432	1219.962
36.5	1150.960	1162.779	1174.759	1185.428	1195.227	1203.738	1208.985
37.0	1138.827	1151.151	1163.035	1173.551	1183.921	1192.417	1197.649
37.5	1126.511	1138.930	1150.917	1161.820	1172.175	1180.635	1185.889
38.0	1113.441	1126.343	1138.886	1149.790	1160.225	1169.643	1174.466
38.5	1100.649	1114.034	1126.109	1137.583	1148.363	1157.269	1162.494
39.0	1087.360	1101.601	1113.931	1125.077	1136.127	1144.857	1150.097
39.5	1074.070	1090.009	1101.388	1112.892	1124.030	1132.387	1137.451

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40.0	1060.788	1076.463	1088.355	1100.305	1111.092	1120.796	1125.582
40.5	1047.499	1062.918	1075.314	1087.184	1098.790	1107.792	1112.739
41.0	1034.107	1049.372	1062.274	1074.063	1085.472	1094.875	1099.559
41.5	1019.171	1035.819	1049.233	1060.942	1072.153	1081.593	1086.760
42.0	1004.249	1020.781	1036.178	1047.828	1058.834	1068.318	1073.412
42.5	989.613	1006.950	1021.505	1034.692	1045.515	1055.036	1059.829
43.0	974.919	992.357	1007.974	1020.861	1032.197	1041.761	1046.533
43.5	959.624	977.451	992.936	1006.745	1018.527	1028.421	1031.823
44.0	943.846	962.924	978.395	992.065	1004.374	1013.916	1017.985
44.5	928.581	948.142	963.876	977.480	989.584	999.661	1003.510
45.0	912.891	932.672	949.350	962.983	975.065	985.449	989.408
45.5	897.019	917.589	934.304	948.537	960.546	970.857	973.909
46.0	881.270	902.844	919.382	933.667	945.925	956.177	959.792
46.5	865.895	887.783	904.424	918.431	931.530	940.985	944.505
47.0	848.654	871.896	889.708	903.305	915.423	926.151	929.123
47.5	831.815	855.979	873.798	888.164	900.407	910.608	913.821
48.0	815.020	841.160	858.870	872.869	885.280	895.270	898.614
48.5	798.650	825.514	843.890	857.457	870.381	879.843	882.807
49.0	781.160	809.100	828.698	842.404	854.428	864.153	867.556
49.5	763.889	793.103	812.891	827.139	838.921	848.478	850.842
50.0	746.926	777.779	797.706	811.793	823.246	832.876	835.079
50.5	729.927	763.106	782.441	796.462	808.258	816.930	819.001
51.0	712.700	744.760	766.853	781.570	791.903	800.728	803.268
51.5	695.532	728.609	751.412	765.573	776.740	784.936	786.048
52.0	678.964	711.800	735.715	750.644	761.211	769.180	770.834
52.5	662.286	695.034	720.508	735.400	745.404	753.417	754.947
53.0	645.828	678.262	704.738	720.611	729.590	737.464	738.093
53.5	629.421	662.308	689.575	704.497	714.464	721.635	721.789
54.0	613.534	645.755	673.593	689.670	699.279	705.880	706.180
54.5	597.420	629.114	657.442	674.127	683.765	690.124	690.212
55.0	582.088	612.868	641.613	658.964	668.521	674.588	674.632
55.5	567.021	597.332	626.443	643.874	653.571	659.454	658.488
56.0	552.985	581.569	610.775	628.916	638.561	644.247	642.740
56.5	538.129	565.572	594.866	613.490	623.179	628.536	627.416
57.0	523.713	550.358	578.722	598.429	608.521	613.666	612.443
57.5	510.906	536.139	564.174	583.471	593.702	599.095	597.500
58.0	497.251	524.210	548.528	568.682	578.978	584.035	582.381
58.5	482.468	509.062	533.753	554.273	564.679	569.655	567.855
59.0	469.347	492.948	519.205	539.505	550.716	555.414	553.760
59.5	456.577	478.626	507.847	525.081	536.614	541.605	539.527
60.0	444.064	465.044	492.487	510.914	522.542	527.364	525.623
60.5	431.777	451.521	476.131	496.980	508.674	513.797	512.721
61.0	420.090	438.699	461.744	484.254	495.260	500.588	499.915
61.5	408.901	426.508	448.681	469.786	482.073	487.554	487.108
62.0	397.389	414.601	435.794	456.460	469.347	474.711	474.294
62.5	386.127	401.956	422.797	443.383	456.599	462.454	461.488
63.0	375.618	391.718	410.240	430.635	444.151	449.903	448.681
63.5	365.454	380.770	400.170	418.494	432.047	437.975	436.694
64.0	355.033	370.386	390.913	406.215	420.200	426.332	424.905
64.5	344.941	357.411	375.296	395.604	408.644	414.689	413.833
65.0	335.486	347.546	364.144	386.742	397.463	403.683	402.827
65.5	326.317	337.374	353.291	372.764	386.427	392.881	391.930
66.0	316.891	327.722	342.775	361.575	375.772	382.446	381.407
66.5	308.037	317.682	332.845	351.074	365.527	372.128	371.345
67.0	299.328	308.893	325.344	341.033	355.560	362.109	361.509
67.5	290.795	299.753	313.950	332.867	345.893	352.618	351.732

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68.0	282.526	291.205	304.458	324.465	336.548	343.192	342.409
68.5	274.967	282.380	295.735	312.910	327.283	334.147	333.532
69.0	267.012	274.535	287.363	304.048	318.487	325.153	324.707
69.5	259.350	266.207	279.116	295.559	309.939	316.591	316.013
70.0	251.878	258.355	272.464	290.539	301.421	308.117	307.788
70.5	245.255	251.066	263.207	280.631	293.262	299.979	299.760
71.0	238.464	244.136	255.881	271.571	285.563	292.208	292.120
71.5	231.754	236.986	248.746	264.260	277.747	284.524	284.575
72.0	225.350	230.180	241.648	260.162	270.181	276.891	277.001
72.5	219.474	223.799	234.835	249.712	262.855	269.573	269.720
73.0	213.276	217.579	228.205	242.467	255.493	262.350	262.665
73.5	207.377	211.197	221.640	236.196	248.322	255.252	255.808
74.0	201.516	205.285	215.310	229.522	243.631	248.197	248.936
74.5	195.998	199.628	209.236	222.365	234.147	241.377	242.160
75.0	190.122	193.861	203.140	216.430	228.490	234.586	235.332
75.5	184.399	187.904	196.986	209.178	220.477	227.817	228.666
76.0	178.508	182.306	190.971	202.635	213.773	221.091	222.123
76.5	172.837	176.766	185.014	196.276	207.531	214.300	215.493
77.0	166.646	171.022	179.042	189.536	200.235	207.524	208.541
77.5	160.462	165.197	173.005	183.148	193.400	200.769	201.794
78.0	154.183	159.401	167.019	176.605	189.887	193.971	195.003
78.5	148.094	153.561	161.018	169.968	179.833	187.948	188.058
79.0	141.684	147.245	154.798	163.411	173.422	182.555	180.725
79.5	135.222	140.872	148.453	156.942	172.024	173.583	173.656
80.0	128.533	134.556	142.269	150.151	163.777	165.841	166.485
80.5	121.852	127.750	135.837	143.455	155.669	158.662	159.064
81.0	115.171	120.952	128.724	136.708	149.236	152.500	151.497
81.5	108.489	114.146	121.611	129.631	141.311	145.731	143.989
82.0	101.793	107.348	114.497	122.562	131.717	136.869	136.056
82.5	94.746	100.542	107.384	115.493	124.289	129.090	127.985
83.0	87.421	93.085	100.249	108.416	116.868	121.318	119.942
83.5	80.125	85.621	92.617	101.354	109.441	113.546	111.819
84.0	72.756	78.229	85.057	94.439	102.006	105.767	103.484
84.5	65.299	70.385	76.978	86.111	94.322	97.995	94.724
85.0	57.563	62.225	68.987	77.659	87.479	90.765	85.987
85.5	50.070	54.387	60.739	69.411	79.700	81.244	77.300
86.0	42.840	46.616	52.521	60.835	70.721	72.799	68.562
86.5	35.639	39.042	44.128	52.221	60.805	63.725	60.125
87.0	28.760	32.009	36.488	43.425	51.885	55.009	51.277
87.5	23.235	25.979	28.906	34.914	42.218	46.381	42.071
88.0	17.717	19.949	23.264	28.138	32.499	36.400	32.836
88.5	12.192	13.912	17.629	21.354	26.176	29.301	23.608
89.0	6.674	7.881	11.987	14.570	19.861	22.210	14.373
89.5	1.325	2.115	6.345	7.794	13.538	15.112	5.137
90.0	0.366	0.571	0.827	1.156	7.223	8.013	3.783
90.5	0.373	0.593	0.805	0.929	0.973	1.076	2.788
91.0	0.388	0.607	0.812	0.951	1.039	1.142	1.793
91.5	0.424	0.629	0.827	0.937	1.025	1.120	0.798
92.0	0.439	0.659	0.842	0.929	1.025	1.090	0.746
92.5	0.446	0.651	0.842	0.973	1.054	1.178	0.798
93.0	0.439	0.629	0.893	0.973	1.083	1.149	0.798
93.5	0.432	0.629	0.834	1.017	1.112	1.186	0.834
94.0	0.439	0.629	0.856	1.061	1.120	1.193	0.834
94.5	0.432	0.651	0.878	1.046	1.149	1.186	0.834
95.0	0.432	0.659	0.915	1.039	1.178	1.178	0.849
95.5	0.439	0.673	0.915	1.039	1.200	1.171	0.849

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96.0	0.446	0.688	0.907	1.068	1.229	1.171	0.864
96.5	0.461	0.688	0.893	1.090	1.237	1.193	0.885
97.0	0.461	0.688	0.878	1.112	1.237	1.200	0.893
97.5	0.461	0.681	0.885	1.142	1.222	1.186	0.885
98.0	0.461	0.673	0.885	1.127	1.222	1.186	0.871
98.5	0.454	0.666	0.900	1.120	1.229	1.178	0.856
99.0	0.454	0.666	0.937	1.112	1.237	1.200	0.842
99.5	0.454	0.673	0.959	1.105	1.244	1.207	0.834
100.0	0.454	0.688	0.951	1.105	1.244	1.186	0.827
100.5	0.461	0.710	0.937	1.105	1.251	1.186	0.827
101.0	0.476	0.703	0.929	1.105	1.237	1.200	0.827
101.5	0.490	0.710	0.915	1.098	1.229	1.215	0.834
102.0	0.498	0.710	0.907	1.076	1.222	1.222	0.834
102.5	0.505	0.703	0.900	1.046	1.229	1.229	0.842
103.0	0.505	0.695	0.900	1.032	1.237	1.237	0.849
103.5	0.512	0.695	0.907	1.025	1.259	1.207	0.856
104.0	0.512	0.703	0.907	1.025	1.259	1.186	0.878
104.5	0.512	0.695	0.907	1.032	1.266	1.171	0.885
105.0	0.512	0.695	0.915	1.039	1.244	1.156	0.893
105.5	0.512	0.695	0.915	1.032	1.229	1.156	0.893
106.0	0.512	0.695	0.893	1.017	1.222	1.164	0.893
106.5	0.512	0.695	0.871	0.995	1.215	1.164	0.893
107.0	0.512	0.695	0.849	0.966	1.186	1.142	0.885
107.5	0.520	0.688	0.834	0.944	1.164	1.112	0.878
108.0	0.520	0.681	0.827	0.929	1.134	1.090	0.864
108.5	0.512	0.673	0.827	0.915	1.112	1.061	0.842
109.0	0.512	0.666	0.834	0.900	1.083	1.032	0.820
109.5	0.505	0.651	0.820	0.878	1.054	1.003	0.812
110.0	0.505	0.651	0.805	0.864	1.039	0.988	0.812
110.5	0.505	0.644	0.790	0.849	1.010	0.966	0.812
111.0	0.498	0.644	0.776	0.834	0.995	0.944	0.805
111.5	0.490	0.637	0.761	0.820	0.981	0.922	0.798
112.0	0.490	0.637	0.746	0.812	0.959	0.907	0.790
112.5	0.483	0.629	0.739	0.798	0.944	0.885	0.783
113.0	0.483	0.622	0.724	0.790	0.937	0.878	0.768
113.5	0.483	0.622	0.717	0.783	0.922	0.864	0.776
114.0	0.476	0.607	0.710	0.768	0.900	0.849	0.783
114.5	0.476	0.600	0.695	0.754	0.878	0.849	0.783
115.0	0.468	0.593	0.688	0.754	0.864	0.842	0.790
115.5	0.461	0.593	0.673	0.739	0.842	0.827	0.790
116.0	0.454	0.585	0.666	0.732	0.827	0.812	0.790
116.5	0.454	0.578	0.659	0.717	0.827	0.812	0.798
117.0	0.446	0.571	0.651	0.717	0.812	0.812	0.798
117.5	0.439	0.563	0.644	0.710	0.798	0.805	0.798
118.0	0.432	0.556	0.637	0.703	0.783	0.805	0.790
118.5	0.432	0.549	0.637	0.710	0.776	0.790	0.798
119.0	0.424	0.542	0.629	0.717	0.768	0.783	0.790
119.5	0.417	0.534	0.629	0.710	0.754	0.790	0.783
120.0	0.417	0.534	0.622	0.703	0.754	0.783	0.790
120.5	0.402	0.527	0.622	0.695	0.739	0.783	0.790
121.0	0.402	0.527	0.622	0.695	0.739	0.790	0.776
121.5	0.402	0.527	0.615	0.695	0.739	0.790	0.790
122.0	0.402	0.527	0.615	0.695	0.739	0.783	0.783
122.5	0.402	0.520	0.607	0.695	0.732	0.790	0.783
123.0	0.402	0.520	0.607	0.688	0.732	0.783	0.776
123.5	0.402	0.512	0.607	0.688	0.739	0.783	0.768

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124.0	0.402	0.512	0.615	0.688	0.739	0.783	0.768
124.5	0.402	0.512	0.615	0.695	0.739	0.783	0.783
125.0	0.410	0.505	0.615	0.695	0.739	0.783	0.776
125.5	0.410	0.505	0.615	0.688	0.732	0.776	0.776
126.0	0.410	0.505	0.615	0.695	0.724	0.776	0.776
126.5	0.410	0.505	0.607	0.681	0.717	0.776	0.768
127.0	0.410	0.505	0.607	0.681	0.717	0.761	0.768
127.5	0.417	0.505	0.615	0.673	0.710	0.754	0.783
128.0	0.417	0.512	0.607	0.659	0.710	0.754	0.768
128.5	0.424	0.512	0.607	0.659	0.710	0.754	0.761
129.0	0.424	0.512	0.600	0.651	0.703	0.739	0.783
129.5	0.432	0.512	0.600	0.651	0.703	0.746	0.783
130.0	0.432	0.512	0.600	0.644	0.703	0.746	0.768
130.5	0.432	0.512	0.600	0.659	0.695	0.739	0.761
131.0	0.439	0.512	0.600	0.651	0.695	0.739	0.776
131.5	0.454	0.520	0.600	0.651	0.688	0.739	0.776
132.0	0.454	0.527	0.607	0.651	0.688	0.724	0.768
132.5	0.461	0.534	0.615	0.666	0.688	0.739	0.768
133.0	0.468	0.534	0.615	0.659	0.688	0.739	0.776
133.5	0.476	0.542	0.615	0.659	0.695	0.739	0.768
134.0	0.483	0.542	0.607	0.666	0.703	0.724	0.754
134.5	0.490	0.542	0.600	0.659	0.703	0.739	0.761
135.0	0.505	0.542	0.600	0.666	0.695	0.739	0.761
135.5	0.520	0.542	0.593	0.666	0.695	0.746	0.761
136.0	0.527	0.542	0.593	0.666	0.688	0.739	0.761
136.5	0.534	0.542	0.585	0.659	0.695	0.746	0.761
137.0	0.542	0.549	0.593	0.659	0.688	0.739	0.761
137.5	0.549	0.534	0.593	0.666	0.681	0.732	0.761
138.0	0.556	0.527	0.600	0.666	0.681	0.732	0.761
138.5	0.556	0.520	0.607	0.659	0.673	0.710	0.761
139.0	0.556	0.520	0.607	0.659	0.681	0.717	0.761
139.5	0.563	0.520	0.607	0.651	0.673	0.717	0.754
140.0	0.563	0.520	0.607	0.644	0.666	0.717	0.754
140.5	0.571	0.520	0.607	0.637	0.666	0.710	0.761
141.0	0.571	0.534	0.600	0.644	0.659	0.695	0.761
141.5	0.571	0.542	0.585	0.651	0.651	0.681	0.761
142.0	0.556	0.534	0.578	0.659	0.644	0.673	0.761
142.5	0.556	0.542	0.571	0.659	0.629	0.673	0.754
143.0	0.556	0.549	0.563	0.659	0.637	0.673	0.754
143.5	0.556	0.556	0.556	0.659	0.644	0.666	0.754
144.0	0.556	0.563	0.556	0.651	0.637	0.651	0.754
144.5	0.556	0.585	0.563	0.651	0.644	0.651	0.754
145.0	0.563	0.593	0.563	0.637	0.651	0.651	0.754
145.5	0.563	0.600	0.563	0.615	0.651	0.651	0.746
146.0	0.571	0.607	0.571	0.607	0.651	0.651	0.754
146.5	0.578	0.607	0.585	0.600	0.651	0.651	0.761
147.0	0.578	0.615	0.585	0.585	0.651	0.644	0.761
147.5	0.585	0.622	0.578	0.585	0.622	0.637	0.754
148.0	0.585	0.629	0.585	0.585	0.607	0.637	0.746
148.5	0.593	0.644	0.585	0.593	0.607	0.615	0.724
149.0	0.593	0.637	0.593	0.585	0.600	0.585	0.695
149.5	0.578	0.622	0.607	0.585	0.593	0.578	0.688
150.0	0.578	0.615	0.622	0.600	0.593	0.563	0.681
150.5	0.578	0.615	0.629	0.600	0.600	0.556	0.666
151.0	0.578	0.622	0.644	0.607	0.607	0.556	0.659
151.5	0.578	0.622	0.644	0.615	0.615	0.563	0.666

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CANDELA TABULATION - (Cont.)

152.0	0.578	0.622	0.651	0.622	0.651	0.571	0.673
152.5	0.578	0.629	0.651	0.637	0.644	0.571	0.681
153.0	0.585	0.629	0.666	0.651	0.651	0.600	0.703
153.5	0.585	0.629	0.673	0.659	0.651	0.615	0.717
154.0	0.593	0.629	0.666	0.659	0.659	0.622	0.717
154.5	0.600	0.629	0.666	0.666	0.666	0.629	0.724
155.0	0.600	0.629	0.666	0.673	0.681	0.629	0.732
155.5	0.600	0.629	0.681	0.681	0.688	0.637	0.739
156.0	0.600	0.629	0.681	0.688	0.695	0.651	0.754
156.5	0.600	0.629	0.673	0.703	0.695	0.659	0.754
157.0	0.600	0.629	0.666	0.710	0.695	0.673	0.761
157.5	0.600	0.629	0.666	0.710	0.703	0.681	0.768
158.0	0.607	0.637	0.666	0.717	0.710	0.688	0.768
158.5	0.615	0.629	0.673	0.717	0.703	0.688	0.768
159.0	0.622	0.629	0.666	0.710	0.703	0.688	0.776
159.5	0.622	0.629	0.666	0.717	0.710	0.695	0.776
160.0	0.629	0.629	0.659	0.717	0.710	0.695	0.776
160.5	0.629	0.629	0.659	0.717	0.703	0.695	0.776
161.0	0.629	0.629	0.659	0.717	0.703	0.695	0.776
161.5	0.629	0.629	0.666	0.710	0.703	0.695	0.776
162.0	0.622	0.629	0.673	0.710	0.695	0.688	0.776
162.5	0.622	0.629	0.681	0.710	0.681	0.688	0.776
163.0	0.622	0.629	0.681	0.703	0.681	0.688	0.783
163.5	0.629	0.637	0.673	0.703	0.681	0.688	0.783
164.0	0.637	0.644	0.681	0.695	0.681	0.688	0.776
164.5	0.629	0.651	0.688	0.688	0.681	0.688	0.776
165.0	0.637	0.659	0.688	0.688	0.688	0.688	0.776
165.5	0.637	0.659	0.688	0.688	0.681	0.688	0.783
166.0	0.644	0.666	0.703	0.703	0.681	0.695	0.790
166.5	0.659	0.681	0.710	0.703	0.688	0.703	0.798
167.0	0.666	0.688	0.717	0.710	0.695	0.703	0.798
167.5	0.666	0.703	0.703	0.717	0.710	0.703	0.798
168.0	0.673	0.710	0.710	0.732	0.717	0.717	0.812
168.5	0.681	0.710	0.732	0.732	0.732	0.724	0.820
169.0	0.688	0.717	0.732	0.732	0.732	0.732	0.827
169.5	0.695	0.710	0.717	0.732	0.739	0.732	0.827
170.0	0.703	0.703	0.717	0.739	0.739	0.739	0.827
170.5	0.703	0.695	0.717	0.746	0.754	0.746	0.820
171.0	0.710	0.695	0.724	0.761	0.761	0.761	0.820
171.5	0.717	0.695	0.724	0.768	0.761	0.776	0.827
172.0	0.710	0.695	0.724	0.768	0.768	0.783	0.834
172.5	0.703	0.695	0.732	0.776	0.768	0.783	0.842
173.0	0.703	0.688	0.739	0.776	0.768	0.790	0.849
173.5	0.717	0.695	0.746	0.776	0.776	0.790	0.856
174.0	0.732	0.710	0.754	0.783	0.776	0.790	0.864
174.5	0.746	0.732	0.761	0.783	0.783	0.798	0.871
175.0	0.761	0.732	0.768	0.790	0.790	0.798	0.871
175.5	0.761	0.732	0.776	0.798	0.798	0.798	0.871
176.0	0.768	0.732	0.783	0.805	0.798	0.805	0.864
176.5	0.768	0.739	0.790	0.805	0.805	0.805	0.864
177.0	0.776	0.746	0.805	0.805	0.798	0.805	0.864
177.5	0.776	0.754	0.805	0.798	0.790	0.798	0.856
178.0	0.776	0.761	0.805	0.798	0.790	0.790	0.849
178.5	0.783	0.761	0.805	0.790	0.783	0.790	0.842
179.0	0.783	0.768	0.798	0.790	0.783	0.790	0.834
179.5	0.776	0.768	0.798	0.790	0.783	0.790	0.834

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CANDELA TABULATION - (Cont.)

180.0	0.834	0.834	0.834	0.834	0.834	0.834	0.834
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	568.50	N.A.	14.60
0-30	1206.74	N.A.	30.90
0-40	1961.06	N.A.	50.20
0-60	3241.84	N.A.	83.00
0-80	3819.86	N.A.	97.80
0-90	3899.88	N.A.	99.90
10-90	3752.96	N.A.	96.10
20-40	1392.56	N.A.	35.70
20-50	2117.37	N.A.	54.20
40-70	1640.5	N.A.	42.00
60-80	578.02	N.A.	14.80
70-80	218.30	N.A.	5.60
80-90	80.03	N.A.	2.00
90-110	1.62	N.A.	0.00
90-120	2.19	N.A.	0.10
90-130	2.70	N.A.	0.10
90-150	3.55	N.A.	0.10
90-180	4.13	N.A.	0.10
110-180	2.51	N.A.	0.10
0-180	3904.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	146.92
10-20	421.58
20-30	638.24
30-40	754.32
40-50	724.81
50-60	555.98
60-70	359.72
70-80	218.30
80-90	80.03
90-100	0.91
100-110	0.71
110-120	0.58
120-130	0.51
130-140	0.46
140-150	0.39
150-160	0.30
160-170	0.20
170-180	0.07

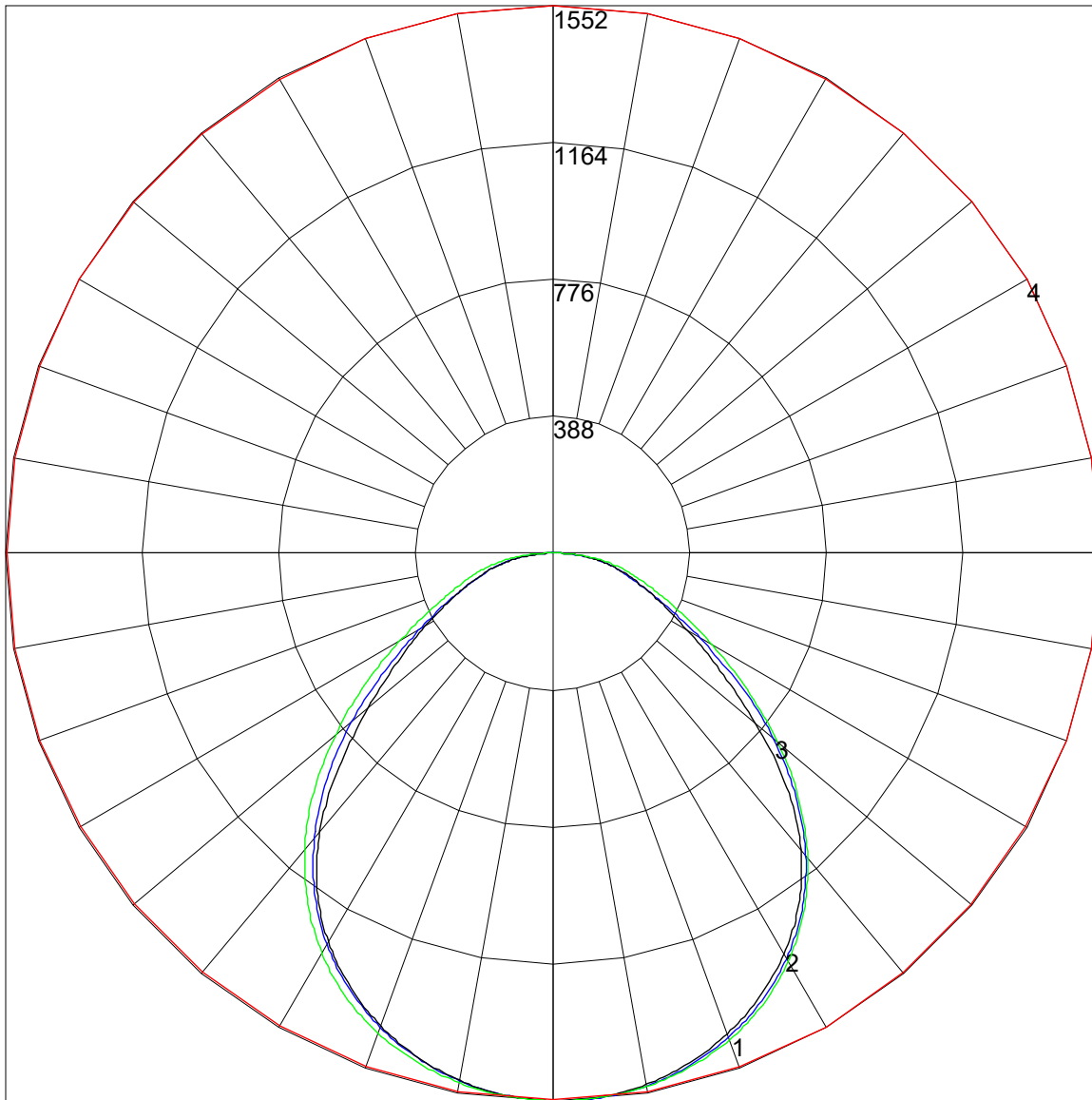
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	50	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	44	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 1552.375 Located At Horizontal Angle = 50, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Vertical Plane Through Horizontal Angles (0 - 180)
4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)