



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 770-48LED42DMV35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-15121-1

[TESTLAB] LightLab International (www.LightLabInt.com)

[MANUFAC] Mobern Lighting Company, Jessup, MD 20794

[LUMCAT] 770-48LED42DMV40

[LUMINAIRE] Mobern Lighting - 1x4 ceiling mount luminaire. Catalog number: 770-48LED42DMV40

[MORE] White painted fabricated steel housing with white interior and clear prismatic plastic wrap lens.

[MORE] 128 LEDs with single row of 32 on each of four white PCBs. Marked "M10CC830D32N2S"

[MORE] One Universal Everline driver. Model: D10CC55UNVTZ-C with dimming disconnected. Marked "754"

[MORE] Operating at 120Vac and 60Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file was extrapolated from report LLI-15121-1 using scaled lumen calculator

[DATE] This file created: Thursday Aug 4, 2016 04:20:02 AM

[ISSUE DATE] Thursday Aug 4, 2016 04:20:02 PM

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4581
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.24 m
Luminous Height	0.04 m

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5410	4747	4575
55	4279	3342	2885
65	2675	2232	1810
75	1848	1607	1523
85	1315	1462	1846

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CANDELA TABULATION

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
0.0	1711.177	1711.177	1711.177	1711.177	1711.177	1711.177	1711.177	1711.177	1711.177	1711.177
0.5	1702.434	1709.983	1712.285	1714.190	1714.225	1712.199	1711.991	1712.476	1711.749	1712.199
1.0	1702.139	1710.208	1713.186	1714.207	1714.796	1712.337	1713.186	1713.878	1712.510	1713.636
1.5	1703.663	1711.489	1714.225	1715.644	1716.579	1713.670	1714.761	1715.229	1714.831	1715.714
2.0	1705.100	1713.463	1716.094	1717.012	1718.415	1716.423	1717.860	1717.791	1718.103	1720.181
2.5	1707.437	1715.610	1717.739	1719.211	1720.510	1719.107	1721.721	1721.808	1723.747	1724.526
3.0	1709.255	1717.099	1720.700	1721.981	1723.626	1722.916	1725.513	1726.794	1727.868	1729.911
3.5	1711.004	1718.969	1721.947	1723.401	1726.517	1727.210	1729.461	1731.036	1732.889	1734.586
4.0	1710.658	1719.194	1722.622	1725.565	1728.820	1730.881	1733.495	1734.967	1737.287	1738.741
4.5	1709.654	1718.120	1724.457	1725.842	1731.521	1734.309	1737.945	1739.174	1740.871	1743.797
5.0	1708.753	1717.306	1724.215	1726.310	1733.287	1736.889	1740.836	1743.347	1745.597	1747.779
5.5	1706.970	1715.869	1723.990	1727.435	1734.465	1739.018	1742.758	1746.636	1749.614	1752.835
6.0	1705.256	1714.467	1724.059	1727.331	1735.988	1741.009	1746.377	1749.320	1754.133	1757.250
6.5	1701.378	1711.749	1724.284	1728.041	1737.962	1742.879	1748.177	1752.748	1758.202	1760.436
7.0	1698.330	1708.684	1723.713	1726.673	1738.672	1745.684	1751.259	1755.328	1760.418	1761.786
7.5	1695.612	1706.329	1722.224	1726.015	1738.880	1746.602	1752.644	1757.838	1760.799	1761.734
8.0	1692.132	1703.819	1721.444	1725.981	1738.516	1748.541	1754.601	1757.440	1759.276	1758.825
8.5	1689.448	1701.395	1720.440	1725.254	1738.499	1749.632	1754.982	1757.406	1755.778	1754.860
9.0	1685.622	1699.109	1719.575	1724.648	1738.966	1748.731	1753.510	1754.549	1751.640	1747.935
9.5	1683.198	1696.685	1718.830	1723.488	1738.932	1748.056	1751.155	1751.571	1745.303	1740.975
10.0	1680.670	1694.954	1716.839	1723.418	1739.139	1747.000	1747.433	1746.879	1737.408	1731.521
10.5	1676.947	1691.924	1715.159	1720.510	1736.906	1744.437	1742.377	1740.334	1729.201	1720.440
11.0	1673.312	1689.102	1713.307	1719.072	1734.932	1740.126	1737.304	1732.958	1718.328	1707.766
11.5	1669.087	1686.505	1710.814	1716.423	1732.716	1735.209	1730.396	1724.405	1707.541	1694.764
12.0	1664.758	1683.665	1708.009	1714.865	1730.673	1728.509	1723.176	1715.177	1695.214	1682.886
12.5	1661.226	1680.566	1706.070	1712.597	1727.435	1721.756	1714.242	1706.364	1683.354	1671.390
13.0	1658.820	1679.077	1704.667	1710.502	1724.388	1714.363	1705.533	1695.473	1672.186	1661.884
13.5	1656.084	1676.584	1703.403	1709.775	1721.531	1706.260	1695.041	1683.769	1662.923	1653.626
14.0	1653.712	1675.355	1702.399	1709.152	1717.445	1697.343	1684.375	1673.052	1654.318	1647.877
14.5	1650.042	1673.485	1702.884	1708.719	1713.307	1688.202	1673.398	1662.819	1647.912	1643.237
15.0	1645.124	1670.385	1702.070	1707.212	1708.892	1679.060	1664.326	1653.002	1642.856	1641.904
15.5	1637.922	1667.511	1700.927	1705.169	1702.763	1669.156	1654.959	1645.592	1639.186	1642.579
16.0	1631.879	1662.681	1698.728	1702.018	1694.833	1660.257	1646.284	1638.320	1637.697	1645.297
16.5	1624.815	1659.201	1695.508	1698.278	1686.782	1650.284	1636.969	1631.464	1638.632	1649.470
17.0	1618.599	1655.115	1691.543	1692.686	1678.090	1640.207	1628.520	1625.819	1639.445	1654.110
17.5	1611.760	1650.751	1687.526	1687.786	1670.108	1630.771	1620.071	1620.833	1641.817	1660.188
18.0	1607.449	1646.665	1683.077	1682.142	1660.915	1621.785	1614.115	1617.509	1644.657	1664.447
18.5	1602.740	1642.735	1677.675	1675.320	1651.271	1613.457	1609.007	1615.587	1646.388	1666.801
19.0	1598.428	1639.584	1671.719	1667.771	1642.008	1606.653	1604.263	1613.907	1648.916	1666.957
19.5	1594.464	1635.809	1664.880	1660.551	1633.143	1600.264	1601.753	1614.063	1650.474	1664.256
20.0	1591.416	1631.273	1658.179	1651.686	1623.430	1595.104	1600.073	1615.673	1649.487	1659.374
20.5	1587.607	1627.291	1651.063	1644.103	1613.093	1591.260	1598.896	1617.786	1647.375	1651.375
21.0	1583.192	1622.045	1643.514	1634.978	1603.605	1587.780	1599.156	1618.842	1643.029	1641.281
21.5	1579.348	1617.976	1635.186	1626.166	1594.377	1584.387	1599.831	1618.807	1636.952	1629.905
22.0	1574.674	1613.128	1626.823	1617.387	1584.785	1581.807	1599.138	1617.405	1626.927	1617.076
22.5	1569.341	1609.475	1618.374	1606.912	1575.539	1578.829	1598.169	1612.938	1617.526	1603.086
23.0	1562.917	1604.315	1609.977	1598.654	1567.177	1575.228	1595.693	1607.795	1604.021	1587.867
23.5	1554.901	1599.658	1601.493	1588.681	1558.121	1572.440	1592.905	1601.251	1589.789	1573.427
24.0	1547.456	1595.658	1592.559	1579.625	1551.127	1570.466	1589.477	1593.996	1576.803	1561.359
24.5	1540.427	1589.443	1582.361	1569.601	1543.924	1566.900	1584.456	1584.473	1564.181	1551.109
25.0	1532.029	1583.365	1571.748	1559.299	1537.552	1564.043	1579.193	1574.466	1552.720	1542.106
25.5	1523.701	1575.851	1561.359	1549.499	1532.479	1560.753	1572.423	1563.679	1542.625	1535.700
26.0	1516.274	1567.315	1550.261	1539.388	1528.324	1558.052	1564.355	1552.408	1533.709	1531.267
26.5	1510.802	1558.797	1539.422	1529.276	1522.732	1553.845	1554.936	1540.496	1526.454	1526.645

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CANDELA TABULATION - (Cont.)

27.0	1505.071	1548.980	1529.224	1519.009	1518.334	1548.183	1544.669	1528.359	1519.130	1523.874
27.5	1498.180	1539.526	1518.490	1509.244	1513.036	1541.067	1533.414	1518.230	1513.382	1518.957
28.0	1492.190	1530.194	1507.201	1498.942	1506.889	1532.618	1522.299	1508.240	1506.734	1515.183
28.5	1484.329	1520.585	1496.103	1488.606	1500.829	1523.199	1511.426	1499.254	1498.804	1508.465
29.0	1478.165	1510.491	1485.576	1478.304	1493.696	1512.032	1501.868	1490.614	1491.220	1500.310
29.5	1468.816	1501.730	1474.616	1469.041	1485.299	1501.505	1491.428	1482.702	1482.650	1490.268
30.0	1461.405	1492.744	1465.422	1459.518	1477.663	1488.848	1481.057	1475.014	1473.075	1480.018
30.5	1452.679	1484.052	1456.887	1451.467	1470.166	1477.577	1470.790	1466.513	1462.289	1469.785
31.0	1444.905	1476.019	1448.316	1444.576	1462.669	1466.427	1460.349	1456.436	1452.281	1459.968
31.5	1437.962	1466.600	1439.313	1436.820	1453.562	1454.515	1449.130	1446.238	1442.429	1450.879
32.0	1429.929	1457.908	1431.210	1428.388	1445.009	1443.607	1437.980	1435.157	1433.755	1443.797
32.5	1422.536	1447.329	1421.358	1420.666	1435.209	1431.158	1426.691	1424.925	1425.600	1434.880
33.0	1413.775	1438.343	1412.822	1411.541	1426.535	1419.177	1414.762	1414.536	1418.605	1427.003
33.5	1405.897	1427.349	1403.109	1402.590	1417.705	1406.884	1402.503	1405.325	1410.277	1418.882
34.0	1395.612	1415.748	1393.033	1393.344	1408.511	1394.435	1390.816	1396.132	1402.469	1411.576
34.5	1384.774	1404.321	1382.159	1383.164	1399.646	1383.008	1380.220	1386.367	1394.227	1403.611
35.0	1373.450	1392.929	1370.697	1372.290	1390.557	1370.888	1370.265	1376.688	1386.211	1394.400
35.5	1363.910	1380.445	1358.422	1360.240	1381.051	1359.045	1361.227	1365.711	1376.896	1383.752
36.0	1354.855	1367.823	1346.821	1349.696	1370.126	1346.025	1350.908	1356.240	1367.027	1372.394
36.5	1344.432	1355.548	1335.048	1339.255	1359.010	1334.494	1341.056	1346.008	1357.539	1358.803
37.0	1335.619	1344.778	1324.400	1328.036	1347.098	1322.686	1330.339	1334.927	1345.886	1342.528
37.5	1325.283	1333.871	1314.306	1317.786	1334.857	1311.380	1318.323	1324.382	1333.005	1325.421
38.0	1314.929	1322.114	1303.277	1307.328	1321.976	1300.074	1307.155	1312.574	1319.015	1309.077
38.5	1302.446	1308.713	1291.694	1296.524	1308.644	1288.612	1294.793	1301.718	1303.762	1290.915
39.0	1291.122	1295.226	1279.158	1285.634	1294.499	1277.479	1283.521	1289.391	1287.365	1274.761
39.5	1278.310	1282.396	1267.246	1273.202	1280.405	1265.688	1270.363	1277.392	1271.246	1260.269
40.0	1266.329	1268.337	1253.689	1261.031	1266.640	1252.789	1257.481	1264.753	1254.538	1244.600
40.5	1253.395	1254.728	1240.236	1248.184	1252.391	1240.046	1245.413	1251.871	1237.795	1229.450
41.0	1243.076	1241.829	1228.359	1236.064	1238.228	1226.714	1232.947	1238.228	1221.884	1214.023
41.5	1232.341	1228.376	1216.118	1222.316	1222.403	1213.227	1220.100	1222.784	1205.574	1198.666
42.0	1219.581	1216.153	1203.860	1209.244	1207.496	1199.687	1206.976	1206.093	1188.623	1182.390
42.5	1207.617	1201.851	1190.684	1195.082	1193.350	1186.442	1192.311	1189.351	1171.690	1166.288
43.0	1192.502	1186.875	1176.330	1180.503	1178.114	1171.275	1176.227	1170.548	1153.770	1149.615
43.5	1178.252	1171.863	1161.839	1164.730	1161.406	1156.298	1157.787	1151.000	1134.725	1132.509
44.0	1163.345	1154.878	1147.416	1150.429	1145.217	1140.369	1140.127	1131.245	1115.576	1115.558
44.5	1147.589	1139.313	1132.162	1135.158	1127.955	1121.393	1120.614	1110.658	1095.838	1098.037
45.0	1133.236	1123.956	1116.701	1120.649	1111.005	1102.988	1100.945	1088.306	1074.559	1078.628
45.5	1117.324	1107.421	1100.963	1105.014	1093.223	1084.410	1079.614	1066.161	1055.115	1059.444
46.0	1099.318	1090.505	1084.687	1089.362	1073.468	1064.188	1057.158	1042.857	1034.390	1038.546
46.5	1081.831	1072.395	1069.486	1072.827	1054.838	1044.363	1033.386	1019.535	1014.046	1016.574
47.0	1063.374	1054.024	1052.760	1055.167	1035.066	1022.980	1010.168	997.650	993.581	994.637
47.5	1044.259	1035.827	1034.598	1038.165	1014.341	1000.645	986.638	975.090	972.614	971.835
48.0	1026.201	1019.621	1015.830	1019.015	993.858	976.960	963.853	952.911	951.716	949.153
48.5	1008.489	1001.476	996.923	999.433	972.233	953.361	940.168	931.372	930.437	926.541
49.0	989.634	983.781	977.098	979.124	950.262	931.095	917.400	910.370	909.054	903.202
49.5	969.394	966.762	957.707	957.464	928.117	908.171	895.151	890.130	887.048	879.136
50.0	950.348	948.721	938.211	935.250	905.089	886.131	873.699	868.643	865.475	855.554
50.5	929.173	930.350	917.140	912.638	883.066	863.570	852.247	847.763	842.240	829.981
51.0	909.002	911.599	896.588	889.905	859.727	842.101	830.951	827.072	819.887	805.759
51.5	887.966	891.654	874.236	867.310	837.894	820.043	810.105	805.136	796.513	781.467
52.0	867.172	870.894	851.468	844.923	816.961	797.881	789.415	784.255	773.174	756.968
52.5	846.395	850.169	828.181	822.432	795.440	776.619	768.136	761.851	749.488	732.140
53.0	825.151	828.544	806.434	799.561	774.196	754.856	746.528	739.602	726.166	707.658
53.5	803.889	806.780	783.078	777.606	752.709	733.611	725.405	717.942	702.083	684.128
54.0	782.316	784.601	760.569	755.306	732.053	711.986	704.991	696.369	679.194	661.135
54.5	760.015	762.353	739.741	732.711	711.224	691.833	684.197	674.363	655.283	638.142

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55.0	736.867	738.200	717.423	710.359	691.192	671.229	662.503	652.495	633.467	616.586
55.5	714.081	714.722	696.560	689.253	670.606	651.439	641.917	632.151	610.890	595.515
56.0	690.932	691.850	674.519	666.658	649.985	630.870	621.434	611.548	589.698	576.366
56.5	666.935	668.649	653.361	646.314	631.390	612.327	601.627	592.312	569.856	556.489
57.0	643.752	645.604	632.515	625.503	612.223	593.022	581.975	572.990	550.689	538.760
57.5	621.399	622.888	611.946	606.025	593.230	575.275	563.709	554.342	532.509	521.602
58.0	596.848	600.363	592.312	586.771	575.656	557.390	545.426	537.184	515.420	504.980
58.5	575.310	578.461	572.401	567.518	558.307	539.885	528.060	519.472	498.834	488.688
59.0	552.420	557.182	553.858	549.564	540.647	523.246	511.733	503.093	483.909	473.780
59.5	530.778	535.886	535.245	531.713	524.164	506.261	495.908	486.471	469.002	458.319
60.0	510.399	516.286	517.585	515.040	508.062	490.696	480.031	472.378	455.029	444.000
60.5	490.211	496.271	499.561	498.262	492.341	475.650	465.677	457.592	440.278	429.976
61.0	470.820	477.745	483.147	481.901	476.152	461.366	451.982	443.429	427.344	416.142
61.5	453.229	459.288	466.405	465.799	461.418	447.411	437.923	430.876	414.307	401.996
62.0	436.399	441.853	450.077	449.800	446.615	433.889	424.747	417.562	401.667	389.028
62.5	419.103	425.422	434.027	435.257	432.365	419.951	412.437	405.442	388.838	377.376
63.0	403.728	409.459	418.808	420.107	418.860	407.139	399.936	393.080	376.718	365.325
63.5	388.145	393.894	403.797	405.667	405.425	395.556	387.920	380.995	365.256	353.500
64.0	373.601	379.609	389.444	391.764	392.439	383.384	376.545	369.412	353.638	341.415
64.5	360.408	365.343	375.281	378.086	379.696	371.974	364.546	357.378	342.471	329.884
65.0	347.076	351.959	361.326	364.512	367.472	361.101	353.794	346.765	331.425	318.716
65.5	335.528	338.298	348.063	352.236	355.699	349.414	343.094	335.424	320.551	309.280
66.0	322.075	325.590	336.065	339.406	343.943	339.164	332.342	324.603	310.544	299.238
66.5	309.990	313.366	323.806	327.408	332.533	328.602	322.179	315.686	300.052	290.200
67.0	299.290	301.212	312.016	315.548	321.763	318.456	312.258	304.865	290.148	281.716
67.5	287.586	290.304	300.259	304.449	310.959	308.120	302.683	295.152	281.491	272.990
68.0	276.764	278.513	289.784	293.542	300.606	298.736	293.109	285.387	272.159	264.714
68.5	266.203	267.796	277.976	282.928	290.910	289.075	283.932	276.089	264.489	256.074
69.0	255.243	257.667	267.796	272.955	280.141	279.967	274.548	266.514	256.316	248.473
69.5	246.309	247.313	258.082	262.619	270.929	271.016	266.047	259.312	247.815	240.491
70.0	236.630	237.029	247.971	252.507	260.714	261.995	256.922	250.655	240.388	233.185
70.5	226.294	227.679	239.297	242.673	252.559	252.507	248.110	242.257	233.220	226.467
71.0	217.550	218.295	229.445	234.501	243.677	243.920	239.868	235.159	226.052	219.195
71.5	208.374	209.084	220.286	224.493	234.812	235.020	232.925	227.662	218.918	212.876
72.0	199.959	200.254	212.356	216.304	226.692	227.766	224.909	220.650	212.097	206.972
72.5	191.735	191.943	203.855	207.508	217.949	219.091	216.823	213.343	206.054	201.067
73.0	183.840	182.663	195.388	199.821	209.482	210.798	209.621	206.712	200.254	196.462
73.5	174.993	175.893	187.701	191.874	201.258	203.820	202.626	199.769	195.129	191.770
74.0	167.669	167.842	180.204	184.463	194.505	196.168	196.046	194.419	190.229	187.424
74.5	159.583	159.895	172.707	176.724	186.593	189.242	189.259	187.736	185.623	182.628
75.0	153.939	153.818	165.505	169.244	179.044	181.243	183.234	182.593	180.377	179.183
75.5	146.719	146.892	158.943	162.388	171.824	175.096	177.036	177.330	176.620	175.529
76.0	140.088	140.261	151.740	156.207	165.158	169.054	170.733	172.395	172.326	172.517
76.5	133.578	134.062	146.061	149.749	158.475	162.752	165.418	167.357	169.089	170.179
77.0	126.410	128.314	139.274	143.291	152.554	156.882	159.964	162.942	165.920	167.980
77.5	122.081	122.479	133.681	137.352	146.078	151.965	154.129	158.250	162.734	166.665
78.0	115.796	116.281	127.829	131.517	140.538	146.390	149.074	153.575	160.397	164.708
78.5	109.840	110.654	121.943	125.873	135.101	140.157	144.399	148.970	157.921	164.119
79.0	105.148	105.615	116.818	120.402	129.994	135.170	139.257	145.819	156.016	163.167
79.5	99.954	100.664	111.658	114.723	124.297	130.028	134.980	142.442	155.064	162.578
80.0	94.050	95.868	105.442	109.355	119.103	125.838	130.998	139.568	153.541	161.886
80.5	89.912	90.327	100.854	104.594	113.753	120.973	126.877	135.811	151.359	161.055
81.0	84.977	85.323	95.452	99.140	108.368	116.748	123.726	133.733	150.112	159.704
81.5	80.302	80.666	90.795	94.188	103.884	112.524	120.627	130.911	148.208	158.856
82.0	75.056	74.987	85.341	89.046	98.326	107.901	116.991	128.124	146.373	157.419
82.5	70.676	71.524	80.856	83.921	93.998	104.386	113.891	125.180	144.866	155.116

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83.0	65.118	65.741	75.887	79.385	88.734	100.352	109.546	122.202	142.650	152.588
83.5	59.872	60.651	70.918	74.190	83.956	96.785	106.498	119.207	139.412	148.762
84.0	53.864	56.444	66.191	69.256	79.887	92.716	103.018	115.692	135.932	144.191
84.5	48.808	51.094	61.205	64.287	75.316	89.254	99.538	112.714	132.210	137.854
85.0	45.190	45.934	56.288	59.803	70.451	84.614	96.508	108.593	127.102	132.019
85.5	38.368	41.519	51.405	54.781	65.966	81.497	92.128	104.906	121.665	124.592
86.0	33.260	36.515	46.471	49.951	61.569	77.567	88.838	99.902	115.121	117.475
86.5	27.183	31.910	41.415	44.687	56.496	73.792	84.008	95.383	108.316	110.307
87.0	22.318	26.733	36.169	40.428	51.855	70.260	80.060	90.466	101.010	104.109
87.5	16.396	21.902	31.217	34.870	47.839	66.417	76.199	85.202	94.136	98.569
88.0	11.410	17.279	27.148	30.871	43.475	62.746	72.459	79.125	88.457	94.448
88.5	6.372	12.882	21.746	25.902	39.788	59.075	68.494	75.143	84.371	91.020
89.0	3.065	8.190	19.115	22.785	36.844	56.582	64.841	71.420	80.891	87.972
89.5	0.000	5.679	17.193	20.465	34.507	53.985	61.759	66.988	77.671	85.981
90.0	0.000	4.554	16.171	19.045	33.433	52.513	58.798	64.806	76.043	85.150
90.5	0.000	5.073	16.119	19.097	32.758	51.163	57.811	62.781	75.835	85.012
91.0	0.000	4.657	15.981	19.097	33.156	51.180	56.530	62.434	75.679	86.570
91.5	0.000	4.623	15.773	19.599	33.416	49.778	55.370	62.192	76.459	89.531
92.0	0.000	4.155	16.137	19.911	34.230	49.466	55.439	61.395	78.398	92.128
92.5	0.000	4.779	16.154	19.703	33.052	48.981	54.989	61.742	80.216	94.396
93.0	0.000	4.865	17.037	20.205	34.143	47.925	54.903	62.694	82.120	97.183
93.5	0.000	4.121	16.518	20.482	34.368	48.514	55.249	63.646	84.925	101.010
94.0	0.000	4.675	16.708	20.517	33.399	48.254	55.647	64.339	87.574	103.780
94.5	0.000	5.021	17.037	20.915	33.433	48.566	56.686	66.295	89.946	105.944
95.0	0.000	4.380	17.297	21.158	33.520	49.293	57.517	68.321	92.336	108.195
95.5	0.000	5.021	17.262	21.279	33.935	49.518	58.764	69.793	94.656	110.792
96.0	0.000	4.554	17.072	20.500	33.624	50.540	60.114	71.801	97.062	112.333
96.5	0.000	4.865	17.245	21.262	34.057	51.526	62.001	74.087	98.794	115.779
97.0	2.130	4.744	17.141	21.608	34.005	52.288	63.369	76.060	100.733	116.229
97.5	0.000	5.315	17.712	21.435	34.680	53.033	65.222	77.272	101.997	116.904
98.0	0.000	5.281	17.747	21.608	34.974	54.418	65.880	78.779	103.520	115.623
98.5	0.000	5.056	17.833	21.798	35.494	55.630	67.628	80.735	104.109	115.432
99.0	0.000	5.263	18.613	22.127	36.359	56.669	69.083	80.891	104.663	114.497
99.5	0.000	5.800	17.989	22.127	36.602	57.517	70.139	83.644	103.763	113.026
100.0	0.000	5.194	18.924	22.283	37.675	58.539	71.212	84.215	102.845	110.463
100.5	0.000	5.506	18.543	22.958	37.277	60.028	71.888	84.267	102.049	107.953
101.0	0.000	5.921	19.738	23.010	37.935	61.240	72.078	84.440	100.335	106.100
101.5	0.000	5.714	19.651	23.564	38.143	61.794	73.238	83.938	98.032	103.105
102.0	0.000	6.233	20.015	23.062	39.459	61.690	72.771	83.488	96.335	100.127
102.5	0.000	6.250	20.379	24.482	39.303	62.175	73.030	82.415	93.825	97.686
103.0	0.000	6.302	20.153	24.517	39.372	62.469	72.840	81.497	90.500	94.309
103.5	0.000	6.025	20.708	24.811	40.082	62.694	71.524	79.402	88.613	91.695
104.0	0.000	6.475	20.933	25.296	40.757	62.140	71.593	78.207	86.362	89.167
104.5	0.000	6.926	21.314	25.365	40.272	61.724	69.879	75.905	83.731	86.605
105.0	0.000	6.891	20.673	25.642	41.294	60.339	68.771	74.537	81.151	84.285
105.5	0.000	6.787	21.088	26.075	41.467	60.391	67.628	72.269	79.108	81.861
106.0	2.147	6.545	21.348	26.542	41.969	59.941	65.862	70.728	77.238	79.973
106.5	0.000	7.116	21.850	25.971	41.571	59.474	64.876	69.325	75.628	78.380
107.0	2.285	7.895	21.781	26.889	41.606	58.106	63.456	68.183	73.948	77.463
107.5	2.078	7.445	22.577	27.252	41.727	57.119	63.127	67.282	73.186	76.285
108.0	0.000	8.068	23.201	27.460	41.831	56.322	62.261	66.745	72.684	75.177
108.5	2.285	8.380	23.426	26.871	41.103	55.820	60.997	65.274	71.541	74.796
109.0	0.000	8.086	23.495	27.789	41.294	55.024	60.720	64.720	71.247	74.156
109.5	2.372	8.068	23.928	27.148	41.294	54.574	59.785	64.304	71.282	73.758
110.0	0.000	9.038	23.859	28.568	40.878	54.781	59.751	63.750	70.329	73.082
110.5	0.000	8.553	24.361	28.499	41.294	54.349	59.924	64.529	70.295	72.805

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111.0	2.182	9.055	24.326	28.360	41.190	54.314	59.803	63.300	70.278	72.892
111.5	2.078	8.830	24.586	28.395	41.069	54.591	59.941	64.044	70.416	72.753
112.0	2.839	9.453	24.724	28.880	41.000	55.041	60.270	64.200	71.351	73.221
112.5	3.099	9.159	25.746	28.707	40.982	54.781	59.958	64.512	71.541	73.931
113.0	0.000	9.834	25.365	29.919	41.380	55.318	60.945	64.547	71.161	73.706
113.5	2.424	9.592	25.798	29.763	42.038	55.907	61.534	65.222	72.615	74.346
114.0	0.000	9.627	25.469	30.109	42.125	56.080	61.309	66.226	72.771	74.987
114.5	2.234	9.800	26.352	30.265	42.385	56.721	61.967	66.745	73.169	75.299
115.0	2.372	10.215	26.490	30.767	42.627	56.738	62.677	67.732	74.121	76.199
115.5	0.000	10.059	26.975	30.819	42.921	57.829	62.746	67.663	74.329	76.372
116.0	3.134	10.475	27.339	30.525	43.233	58.106	64.044	68.009	74.554	77.359
116.5	2.164	10.215	27.131	31.234	43.146	58.158	64.322	68.910	75.905	77.913
117.0	2.355	10.717	27.183	31.234	43.943	59.491	64.702	70.001	76.043	78.658
117.5	0.000	10.631	27.148	30.957	44.203	58.885	65.949	70.503	76.857	79.437
118.0	2.770	9.730	27.599	30.750	44.687	59.803	66.070	71.005	76.943	79.298
118.5	2.528	11.375	27.685	31.910	44.982	60.512	66.226	71.161	77.688	80.320
119.0	2.788	11.116	28.101	32.827	45.882	60.738	66.295	71.593	78.380	80.579
119.5	0.000	11.046	27.858	32.377	45.380	61.361	67.126	71.974	78.917	81.895
120.0	3.705	10.839	28.187	32.066	45.692	61.586	67.282	72.979	79.004	81.601
120.5	3.567	10.354	28.118	32.394	46.211	61.517	67.923	73.307	79.454	82.519
121.0	3.376	10.994	27.737	31.719	46.038	61.863	68.131	73.411	80.285	82.917
121.5	3.584	11.306	27.114	32.377	45.657	61.499	68.563	73.533	80.527	83.228
122.0	3.324	11.185	27.529	31.910	45.519	61.967	68.356	74.069	80.839	83.488
122.5	2.874	11.150	27.997	32.117	45.813	61.170	67.663	73.688	80.268	83.505
123.0	3.445	11.064	27.772	31.996	45.051	61.621	68.425	73.862	80.735	83.505
123.5	3.065	10.319	27.547	31.442	45.570	61.447	68.165	72.961	80.908	83.350
124.0	3.619	10.613	26.854	31.633	45.190	60.703	68.286	72.615	80.389	83.731
124.5	3.480	10.562	26.577	30.836	44.168	60.668	67.403	73.117	80.008	83.488
125.0	3.982	10.475	26.179	30.715	43.960	60.703	66.468	72.321	80.147	83.436
125.5	2.961	10.475	25.642	30.161	42.818	60.357	66.105	71.905	79.904	83.523
126.0	4.225	10.631	25.365	29.676	42.869	59.145	65.793	71.299	79.714	82.796
126.5	3.394	10.891	25.625	29.572	42.350	58.833	65.153	70.537	79.073	82.726
127.0	3.653	10.042	25.746	28.862	41.986	58.417	64.806	70.624	78.138	81.791
127.5	3.792	10.354	24.309	28.239	40.896	57.863	64.062	69.775	77.342	81.116
128.0	3.636	10.042	24.118	28.222	40.567	56.340	63.248	68.304	76.632	80.372
128.5	3.428	9.886	23.772	27.218	39.389	55.959	62.365	67.351	76.078	79.783
129.0	3.653	9.834	23.460	26.889	39.251	54.885	61.188	66.624	75.679	78.883
129.5	4.277	9.488	23.149	26.542	38.299	54.314	59.872	65.966	74.433	77.878
130.0	3.723	9.800	22.491	26.456	38.558	53.552	59.318	64.858	73.273	76.822
130.5	3.151	9.557	21.989	25.365	36.913	52.167	58.608	64.529	71.749	76.008
131.0	4.242	9.505	22.058	24.811	35.563	51.042	57.050	63.058	70.416	75.022
131.5	4.034	9.644	20.811	24.551	35.546	50.263	56.011	61.257	69.689	73.844
132.0	4.155	8.415	20.292	23.651	34.039	48.825	55.232	60.686	68.910	72.234
132.5	4.450	9.090	20.708	23.599	34.109	47.977	53.847	59.889	67.473	71.282
133.0	4.450	8.796	19.998	22.837	33.416	46.921	52.842	58.314	66.486	70.468
133.5	4.450	8.051	19.097	22.300	32.152	46.298	51.475	57.292	64.928	69.516
134.0	4.917	9.159	18.976	21.660	31.408	44.705	50.453	55.699	63.594	67.767
134.5	5.142	8.536	18.422	21.781	30.421	44.393	49.016	54.937	62.486	66.520
135.0	4.051	8.207	18.855	21.140	30.126	42.489	47.683	53.137	60.668	65.499
135.5	4.450	8.138	17.401	20.846	29.676	41.796	46.730	51.682	59.733	63.664
136.0	4.675	8.207	17.054	20.136	28.914	40.342	45.726	50.609	59.145	62.244
136.5	3.965	8.068	16.864	19.444	27.668	39.285	44.566	49.449	57.154	60.772
137.0	3.896	7.410	17.175	19.530	27.477	37.745	42.921	48.046	55.284	59.006
137.5	4.588	7.861	16.067	18.664	27.356	37.087	41.883	46.557	53.916	57.863
138.0	4.121	7.895	16.258	18.093	26.110	36.342	40.792	45.207	52.098	56.132
138.5	4.900	8.241	15.375	17.418	25.417	35.442	39.874	44.272	50.765	54.903

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139.0	5.229	7.566	15.652	17.418	24.447	34.420	38.281	42.939	50.107	53.639
139.5	4.536	7.532	15.029	16.795	24.170	33.156	37.225	41.986	48.514	51.907
140.0	5.333	7.012	14.630	16.587	23.235	32.983	35.978	40.965	47.042	50.349
140.5	4.831	7.393	14.128	15.998	22.647	31.823	35.234	39.164	46.055	49.206
141.0	3.861	7.514	14.353	16.119	22.352	31.304	34.126	38.160	44.895	47.839
141.5	4.744	6.978	13.938	15.721	21.746	29.676	33.866	37.398	43.250	45.951
142.0	5.021	7.151	13.020	15.219	21.729	29.018	32.394	35.373	42.766	45.034
142.5	4.536	6.631	13.505	14.994	20.690	28.222	31.840	35.113	40.809	44.012
143.0	4.796	7.185	13.089	14.249	21.002	28.118	31.321	34.161	39.597	42.246
143.5	4.606	7.324	12.587	14.284	20.240	26.889	30.126	33.070	38.039	41.484
144.0	4.986	6.683	12.847	13.505	19.392	26.681	29.157	32.827	37.554	40.186
144.5	4.225	6.441	12.518	13.765	18.284	25.642	28.274	31.581	37.035	38.939
145.0	5.142	6.008	12.501	13.591	18.595	25.192	28.153	30.421	35.338	38.333
145.5	4.415	7.133	12.206	13.349	18.734	24.949	27.010	29.867	34.732	37.398
146.0	4.796	6.216	11.531	13.055	17.903	24.759	26.231	28.914	33.693	36.411
146.5	5.073	7.151	11.531	12.639	17.730	23.807	25.521	27.564	32.446	34.974
147.0	4.900	6.164	11.462	12.466	17.504	22.318	25.261	27.460	32.169	33.849
147.5	4.571	6.770	11.150	12.189	17.158	22.352	25.001	26.577	30.784	34.212
148.0	5.073	6.389	10.908	11.929	16.639	21.539	23.876	25.884	30.057	32.602
148.5	5.489	6.406	10.994	11.895	16.656	20.794	23.097	25.954	29.607	31.702
149.0	4.986	6.302	11.012	11.687	15.946	21.296	23.149	24.932	28.585	30.767
149.5	5.973	6.562	10.267	11.150	15.721	20.431	21.937	23.945	27.910	29.624
150.0	5.402	6.666	10.285	11.202	15.098	20.569	21.539	23.807	27.218	28.810
150.5	5.004	5.973	10.077	11.254	14.267	19.305	21.556	23.374	26.127	28.187
151.0	5.731	6.423	10.146	10.752	14.734	19.097	20.708	23.391	25.365	27.166
151.5	5.662	6.406	9.696	10.683	14.665	18.509	20.292	21.764	24.551	27.131
152.0	5.402	6.666	9.419	10.510	14.284	18.474	19.928	21.071	24.274	25.815
152.5	5.523	6.164	9.419	10.388	13.886	18.249	18.682	20.967	23.893	25.261
153.0	4.934	6.337	9.488	9.834	12.986	17.175	18.907	20.379	23.357	25.434
153.5	5.038	5.869	9.038	9.904	12.535	16.552	17.955	19.998	22.906	23.876
154.0	5.212	6.077	9.263	9.956	12.483	16.985	17.591	19.392	21.556	23.997
154.5	5.194	6.095	8.657	9.782	12.622	16.985	17.522	18.872	21.140	22.993
155.0	5.402	6.146	8.293	9.003	11.722	16.015	16.777	18.232	21.106	22.733
155.5	5.212	6.372	8.657	9.679	11.825	15.894	16.015	18.387	20.050	21.452
156.0	4.779	5.869	8.726	9.298	11.548	15.150	15.964	17.660	20.171	20.863
156.5	5.142	5.540	8.692	9.073	10.596	14.942	15.773	16.881	19.444	20.742
157.0	5.610	5.714	8.068	7.670	10.942	14.180	16.050	16.743	19.132	20.153
157.5	5.298	5.939	7.514	7.982	10.994	14.388	14.734	16.483	18.318	19.132
158.0	5.852	5.748	8.086	8.518	10.960	13.782	14.734	15.998	17.158	19.496
158.5	5.056	5.263	7.307	8.259	10.129	13.263	14.336	15.427	17.106	18.405
159.0	4.831	5.731	7.618	7.964	10.025	13.107	13.799	15.686	17.124	18.024
159.5	4.207	5.592	7.809	7.497	10.077	12.310	13.436	14.890	16.898	18.128
160.0	4.969	5.489	6.718	7.549	9.436	12.085	13.037	13.938	16.344	17.193
160.5	5.073	5.160	6.804	7.635	9.592	11.531	11.895	14.094	15.617	16.916
161.0	4.432	4.934	7.133	6.770	8.865	11.514	12.120	12.899	15.167	16.292
161.5	4.796	5.212	6.372	6.735	8.951	11.185	11.652	13.193	14.700	15.686
162.0	5.229	5.298	6.268	6.874	8.640	10.683	12.154	12.864	14.509	15.531
162.5	4.329	5.766	6.077	6.995	9.055	10.856	11.219	12.016	14.076	14.786
163.0	4.900	5.575	6.302	6.527	7.774	10.233	10.856	11.739	13.263	14.700
163.5	4.813	5.246	6.441	6.666	8.224	10.336	10.302	11.600	12.847	14.405
164.0	5.229	5.142	6.475	6.337	7.705	10.319	9.869	11.168	13.141	14.267
164.5	4.484	4.606	6.441	6.198	8.363	9.938	9.644	10.579	13.037	13.505
165.0	5.731	4.640	6.631	6.250	7.358	9.523	9.124	10.354	11.964	12.830
165.5	4.813	5.437	6.614	6.129	7.376	8.865	9.159	9.575	11.116	12.380
166.0	5.350	5.575	6.164	5.298	7.099	8.986	9.298	9.765	11.133	11.722
166.5	5.160	5.125	5.592	5.939	6.683	8.744	8.432	9.003	10.406	11.462

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CANDELA TABULATION - (Cont.)

167.0	4.952	4.952	5.904	5.523	6.268	7.964	8.138	8.865	10.423	11.046
167.5	4.744	5.437	6.112	5.090	6.164	7.566	8.588	8.778	10.094	11.064
168.0	5.454	5.160	5.679	5.558	6.579	8.103	8.155	8.622	10.007	10.285
168.5	4.986	4.675	5.921	5.748	6.752	7.272	7.705	8.190	9.315	10.146
169.0	4.692	4.883	5.956	5.627	6.718	6.527	7.237	7.566	7.774	9.194
169.5	5.056	5.038	6.216	5.419	6.337	7.168	6.926	7.272	8.241	9.280
170.0	5.592	4.848	5.939	5.333	6.077	7.029	6.441	7.151	8.068	8.051
170.5	5.419	5.367	5.610	4.883	6.025	6.406	7.185	7.843	8.086	7.566
171.0	5.471	5.263	5.281	5.385	5.852	6.822	6.545	6.735	7.185	7.912
171.5	5.869	5.142	5.523	4.848	5.281	6.198	6.822	7.047	7.081	7.774
172.0	5.471	5.090	5.281	5.662	6.008	6.146	6.146	6.545	7.064	7.514
172.5	4.606	4.986	4.848	4.900	5.281	5.506	5.679	6.250	6.701	6.597
173.0	4.917	5.142	5.194	5.315	6.043	5.627	5.748	6.060	6.458	6.320
173.5	4.277	4.986	5.090	5.731	4.848	5.818	5.766	5.714	6.475	5.991
174.0	5.402	4.675	5.748	4.277	5.212	4.934	5.540	5.298	5.333	6.112
174.5	5.385	4.761	4.969	4.536	4.796	5.471	5.662	5.281	6.129	5.852
175.0	5.125	4.277	5.073	5.038	5.073	4.986	5.575	5.212	5.662	5.835
175.5	5.333	4.934	5.125	4.657	4.883	4.571	4.675	4.709	5.558	5.523
176.0	5.108	4.969	4.917	4.346	4.484	5.385	5.160	5.108	5.471	5.592
176.5	5.904	4.225	4.831	4.380	4.692	4.744	5.090	4.796	5.298	5.437
177.0	4.363	4.761	4.450	4.969	5.558	4.744	4.848	4.571	5.575	5.575
177.5	4.657	4.657	4.848	4.519	4.242	4.536	4.069	4.415	5.506	4.779
178.0	5.212	4.380	5.073	4.502	5.194	5.004	4.640	4.173	4.588	4.675
178.5	4.554	4.155	4.848	4.692	4.831	4.986	4.883	4.207	4.623	5.506
179.0	4.986	4.450	5.246	4.173	5.263	4.796	4.415	3.965	4.277	4.657
179.5	5.523	5.004	4.450	4.346	4.363	4.571	4.657	4.467	3.619	5.056
180.0	4.571	4.571	4.571	4.571	4.571	4.571	4.571	4.571	4.571	4.571

Vert. Horizontal Angles

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>
0.0	1711.177	1711.177	1711.177
0.5	1710.606	1711.212	1714.034
1.0	1711.956	1712.147	1714.190
1.5	1714.380	1715.904	1718.259
2.0	1718.016	1719.557	1721.860
2.5	1723.557	1724.388	1727.141
3.0	1728.041	1729.980	1733.270
3.5	1733.218	1734.517	1737.321
4.0	1737.408	1739.434	1741.736
4.5	1741.425	1743.312	1746.325
5.0	1746.169	1747.848	1751.450
5.5	1751.017	1751.415	1754.982
6.0	1755.103	1753.770	1756.124
6.5	1758.029	1755.172	1757.163
7.0	1758.895	1754.583	1755.432
7.5	1758.393	1753.060	1752.333
8.0	1755.917	1748.350	1748.091
8.5	1751.467	1743.139	1741.892
9.0	1744.178	1734.690	1733.010
9.5	1736.508	1726.154	1722.483
10.0	1727.037	1714.727	1710.364
10.5	1715.194	1702.243	1697.032
11.0	1702.018	1690.504	1684.444
11.5	1689.448	1679.268	1673.329
12.0	1677.744	1668.135	1663.010

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CANDELA TABULATION - (Cont.)

12.5	1667.338	1658.924	1654.924
13.0	1658.162	1651.790	1649.210
13.5	1651.132	1646.215	1644.743
14.0	1645.107	1642.666	1642.371
14.5	1642.268	1643.202	1642.735
15.0	1641.246	1645.921	1645.297
15.5	1642.822	1650.786	1650.474
16.0	1646.856	1658.404	1657.590
16.5	1651.842	1665.053	1663.512
17.0	1658.473	1671.026	1669.502
17.5	1664.152	1676.030	1674.662
18.0	1668.031	1679.250	1677.138
18.5	1670.264	1678.540	1675.684
19.0	1668.896	1673.485	1670.264
19.5	1665.503	1665.538	1661.244
20.0	1658.924	1655.392	1649.626
20.5	1649.522	1642.458	1636.744
21.0	1637.956	1628.572	1623.066
21.5	1624.746	1613.890	1607.207
22.0	1610.687	1599.398	1593.061
22.5	1596.905	1585.980	1580.543
23.0	1582.223	1574.397	1568.164
23.5	1569.099	1563.956	1559.316
24.0	1557.671	1556.581	1551.577
24.5	1548.633	1550.867	1547.560
25.0	1540.461	1547.318	1544.305
25.5	1534.817	1545.032	1544.322
26.0	1531.389	1541.777	1543.128
26.5	1527.735	1537.864	1539.145
27.0	1525.034	1531.441	1533.103
27.5	1521.987	1524.134	1524.931
28.0	1516.828	1514.161	1514.438
28.5	1509.400	1504.050	1503.790
29.0	1501.210	1494.839	1494.008
29.5	1491.238	1485.126	1484.606
30.0	1481.126	1477.057	1475.724
30.5	1471.205	1469.422	1468.158
31.0	1462.185	1462.531	1465.180
31.5	1453.458	1456.159	1461.734
32.0	1446.100	1450.238	1457.216
32.5	1438.430	1444.351	1452.385
33.0	1430.639	1436.941	1446.585
33.5	1422.813	1427.730	1434.863
34.0	1414.086	1416.129	1421.220
34.5	1405.083	1401.949	1405.187
35.0	1394.954	1386.505	1387.128
35.5	1382.627	1369.485	1368.776
36.0	1369.797	1353.349	1350.873
36.5	1354.145	1337.039	1336.018
37.0	1337.420	1322.599	1323.448
37.5	1321.041	1309.423	1310.272
38.0	1304.177	1296.005	1298.429
38.5	1288.664	1283.643	1285.149
39.0	1274.016	1270.969	1271.575
39.5	1258.676	1257.464	1258.433
40.0	1243.543	1243.128	1244.496

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CANDELA TABULATION - (Cont.)

40.5	1228.134	1228.688	1231.077
41.0	1212.984	1213.798	1217.347
41.5	1197.765	1199.185	1205.072
42.0	1181.681	1186.009	1192.675
42.5	1164.834	1171.396	1178.010
43.0	1148.351	1156.194	1163.812
43.5	1131.435	1139.729	1146.949
44.0	1114.277	1121.913	1129.306
44.5	1096.115	1102.954	1107.715
45.0	1077.571	1082.038	1085.709
45.5	1057.470	1060.032	1063.062
46.0	1036.849	1036.381	1036.416
46.5	1015.016	1012.557	1010.462
47.0	993.183	986.777	983.764
47.5	970.502	961.741	957.308
48.0	946.556	934.956	929.277
48.5	923.148	908.241	902.942
49.0	898.943	881.560	876.296
49.5	874.167	855.190	848.784
50.0	849.546	829.600	823.073
50.5	824.579	803.283	796.669
51.0	799.232	777.208	771.668
51.5	774.144	752.692	746.857
52.0	749.298	728.573	721.682
52.5	724.470	704.697	698.083
53.0	700.144	681.392	674.103
53.5	677.739	659.386	652.409
54.0	655.093	637.623	631.182
54.5	632.757	616.915	610.059
55.0	611.340	596.883	590.009
55.5	591.117	578.045	571.154
56.0	571.639	560.229	552.143
56.5	553.078	542.638	535.384
57.0	535.764	525.480	517.498
57.5	518.589	508.685	501.569
58.0	501.967	492.168	485.208
58.5	485.571	476.949	468.500
59.0	470.629	460.916	452.830
59.5	455.341	445.403	438.616
60.0	440.624	430.790	422.739
60.5	426.652	416.281	409.061
61.0	412.627	401.823	395.383
61.5	399.088	388.024	381.704
62.0	386.708	375.368	368.909
62.5	374.190	362.555	355.266
63.0	361.257	349.466	343.094
63.5	349.881	337.415	330.524
64.0	337.484	325.607	319.305
64.5	326.040	315.080	308.103
65.0	315.600	305.384	299.463
65.5	305.800	295.740	289.213
66.0	295.585	285.906	280.677
66.5	286.651	277.526	272.644
67.0	278.097	268.800	264.246
67.5	270.116	260.922	256.247
68.0	261.372	252.577	248.352

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CANDELA TABULATION - (Cont.)

68.5	253.079	245.166	241.703
69.0	245.599	237.115	234.310
69.5	238.085	230.363	227.333
70.0	230.432	223.212	221.048
70.5	223.610	217.170	215.317
71.0	216.962	211.023	209.499
71.5	210.330	205.794	204.357
72.0	204.669	200.946	200.929
72.5	199.925	196.704	197.986
73.0	195.683	192.843	194.280
73.5	190.818	188.809	191.597
74.0	186.662	185.866	187.545
74.5	182.126	182.767	186.195
75.0	178.802	180.758	184.914
75.5	175.096	178.438	183.286
76.0	172.776	177.105	182.542
76.5	170.699	175.928	182.490
77.0	169.521	176.187	183.684
77.5	167.288	177.174	183.788
78.0	167.080	176.966	184.896
78.5	166.197	176.620	184.740
79.0	166.007	177.295	185.052
79.5	164.639	178.178	187.147
80.0	164.535	178.040	185.710
80.5	164.466	177.157	185.537
81.0	162.925	175.702	184.844
81.5	161.280	174.265	182.576
82.0	159.999	172.447	178.940
82.5	157.765	168.933	174.923
83.0	154.527	164.033	168.933
83.5	150.614	157.904	161.747
84.0	145.264	149.714	152.571
84.5	138.876	143.221	143.897
85.0	131.950	134.928	135.932
85.5	124.592	127.483	128.383
86.0	117.545	120.834	121.371
86.5	110.533	114.671	116.315
87.0	105.183	109.702	110.879
87.5	98.724	104.680	107.433
88.0	95.798	102.291	105.425
88.5	92.076	99.313	102.741
89.0	90.119	97.582	100.387
89.5	87.990	96.422	100.127
90.0	87.384	96.993	101.114
90.5	87.540	99.815	104.750
91.0	90.258	101.945	107.607
91.5	92.820	106.031	110.463
92.0	95.868	109.199	114.238
92.5	98.101	112.195	116.870
93.0	101.737	115.086	121.146
93.5	104.732	118.653	123.691
94.0	107.797	121.717	126.756
94.5	109.892	123.830	129.180
95.0	111.658	126.254	131.569
95.5	114.636	128.193	132.521
96.0	117.216	129.907	133.976

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CANDELA TABULATION - (Cont.)

96.5	118.791	129.803	131.673
97.0	118.826	129.457	131.517
97.5	119.172	127.743	129.041
98.0	118.428	125.596	126.600
98.5	117.926	123.432	123.986
99.0	116.004	121.163	121.510
99.5	113.961	117.354	118.168
100.0	111.779	114.844	114.792
100.5	109.009	112.004	112.991
101.0	106.083	109.355	108.957
101.5	104.057	105.962	106.118
102.0	101.477	103.486	104.109
102.5	98.465	100.473	100.577
103.0	95.037	97.201	97.824
103.5	92.613	93.634	94.119
104.0	89.461	89.981	91.037
104.5	86.864	87.626	88.596
105.0	84.527	85.791	86.345
105.5	82.796	84.181	84.025
106.0	80.597	82.796	82.415
106.5	79.125	81.064	81.307
107.0	77.238	79.766	79.852
107.5	76.147	78.242	78.658
108.0	75.749	76.822	77.082
108.5	74.935	75.939	77.220
109.0	74.000	75.887	75.679
109.5	73.758	75.593	75.974
110.0	73.359	75.125	74.883
110.5	73.498	74.745	74.641
111.0	73.533	74.450	74.623
111.5	73.290	74.242	73.879
112.0	73.792	75.316	75.576
112.5	73.169	74.918	75.541
113.0	74.433	75.783	76.130
113.5	74.710	75.957	75.628
114.0	75.351	76.251	76.805
114.5	75.264	77.013	76.476
115.0	76.597	77.446	77.480
115.5	76.840	77.740	78.155
116.0	77.515	78.606	78.415
116.5	78.069	78.744	78.865
117.0	78.796	79.991	79.246
117.5	79.160	80.752	80.337
118.0	79.644	80.787	80.804
118.5	80.701	81.687	81.116
119.0	81.532	82.415	81.861
119.5	81.618	82.951	82.363
120.0	82.553	82.726	83.159
120.5	82.328	82.761	82.934
121.0	82.986	83.696	83.436
121.5	83.003	84.042	83.800
122.0	83.921	84.336	84.025
122.5	83.713	84.977	85.098
123.0	83.886	84.544	84.510
123.5	84.440	85.791	84.596
124.0	84.146	84.821	86.206

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124.5	84.233	84.787	84.077
125.0	83.540	85.012	84.579
125.5	83.142	84.302	84.787
126.0	82.917	84.250	83.921
126.5	82.761	83.644	83.661
127.0	82.172	83.800	83.073
127.5	82.034	82.345	83.263
128.0	81.012	82.190	82.640
128.5	80.129	81.428	82.449
129.0	79.766	80.943	80.995
129.5	78.692	79.714	80.302
130.0	78.225	78.986	80.389
130.5	76.493	78.346	78.346
131.0	75.385	77.013	77.723
131.5	74.312	76.476	76.130
132.0	73.238	75.454	75.229
132.5	71.992	74.000	73.446
133.0	71.126	72.805	72.927
133.5	69.983	71.559	71.784
134.0	68.165	70.243	70.468
134.5	66.988	68.875	69.464
135.0	66.226	68.079	67.732
135.5	63.508	66.313	66.919
136.0	63.023	64.858	64.997
136.5	60.807	63.750	63.716
137.0	59.889	62.157	63.421
137.5	58.348	60.651	61.517
138.0	56.807	59.231	59.577
138.5	55.284	58.175	58.071
139.0	53.777	56.721	57.725
139.5	52.219	55.110	56.253
140.0	51.440	53.864	54.730
140.5	49.812	52.011	52.513
141.0	48.168	50.211	51.873
141.5	47.025	49.466	50.159
142.0	45.605	47.925	48.219
142.5	44.532	47.787	47.406
143.0	42.662	45.536	46.350
143.5	42.021	43.631	44.999
144.0	40.030	42.402	43.060
144.5	39.788	42.021	42.038
145.0	38.420	40.290	41.259
145.5	37.571	39.857	39.874
146.0	36.758	39.164	39.147
146.5	35.095	37.467	37.796
147.0	33.832	36.290	37.312
147.5	33.191	35.684	36.307
148.0	32.083	34.247	34.507
148.5	31.840	33.676	33.433
149.0	30.455	32.394	32.637
149.5	30.300	31.962	32.810
150.0	29.590	30.715	31.858
150.5	28.689	29.642	30.455
151.0	27.979	29.088	29.988
151.5	26.612	28.118	29.538
152.0	26.681	28.049	28.170

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CANDELA TABULATION - (Cont.)

152.5	25.607	27.633	27.391
153.0	25.244	26.837	26.889
153.5	24.378	26.075	26.248
154.0	23.720	25.555	25.711
154.5	22.681	24.499	25.088
155.0	22.179	23.530	24.724
155.5	21.920	23.512	22.976
156.0	21.504	22.889	23.460
156.5	20.794	22.197	22.595
157.0	20.309	21.608	22.231
157.5	20.171	20.967	21.158
158.0	18.993	20.742	21.002
158.5	18.647	20.136	20.050
159.0	17.903	20.223	19.219
159.5	17.418	19.617	18.682
160.0	17.210	18.682	18.855
160.5	16.414	17.712	18.647
161.0	16.795	17.401	17.712
161.5	15.635	17.349	16.760
162.0	15.427	16.829	16.708
162.5	14.977	15.964	16.396
163.0	14.353	15.998	16.033
163.5	14.197	15.617	15.080
164.0	13.695	14.890	15.548
164.5	12.760	14.475	14.526
165.0	12.882	13.886	13.765
165.5	12.639	12.951	13.124
166.0	12.137	12.847	12.016
166.5	11.306	12.431	12.570
167.0	11.185	11.895	11.687
167.5	10.285	11.808	10.925
168.0	9.730	11.341	11.098
168.5	10.163	10.285	10.285
169.0	8.674	9.990	11.116
169.5	8.813	9.782	10.025
170.0	8.380	8.986	9.973
170.5	7.653	9.021	8.709
171.0	7.168	8.986	8.761
171.5	7.220	8.207	8.293
172.0	7.237	8.068	7.410
172.5	6.735	8.501	6.978
173.0	6.181	6.822	6.839
173.5	5.402	7.358	6.908
174.0	5.592	5.904	6.770
174.5	5.610	6.285	6.475
175.0	5.298	6.389	5.748
175.5	5.471	5.714	5.818
176.0	5.489	5.471	5.212
176.5	4.640	5.731	5.125
177.0	4.761	5.385	5.038
177.5	4.554	5.263	4.709
178.0	4.380	4.934	4.917
178.5	4.329	5.194	4.761
179.0	4.000	4.554	5.298
179.5	3.965	4.294	4.934
180.0	4.571	4.571	4.571

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	638.30	N.A.	13.90
0-30	1357.31	N.A.	29.60
0-40	2219.36	N.A.	48.50
0-60	3656.06	N.A.	79.80
0-80	4188.72	N.A.	91.40
0-90	4290.88	N.A.	93.70
10-90	4125.35	N.A.	90.10
20-40	1581.06	N.A.	34.50
20-50	2420.14	N.A.	52.80
40-70	1779.67	N.A.	38.90
60-80	532.66	N.A.	11.60
70-80	189.69	N.A.	4.10
80-90	102.16	N.A.	2.20
90-110	127.34	N.A.	2.80
90-120	179.46	N.A.	3.90
90-130	229.24	N.A.	5.00
90-150	278.85	N.A.	6.10
90-180	289.77	N.A.	6.30
110-180	162.43	N.A.	3.50
0-180	4580.65	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	165.53
10-20	472.77
20-30	719.01
30-40	862.05
40-50	839.08
50-60	597.62
60-70	342.97
70-80	189.69
80-90	102.16
90-100	67.44
100-110	59.90
110-120	52.12
120-130	49.78
130-140	33.09
140-150	16.52
150-160	7.54
160-170	2.81
170-180	0.57

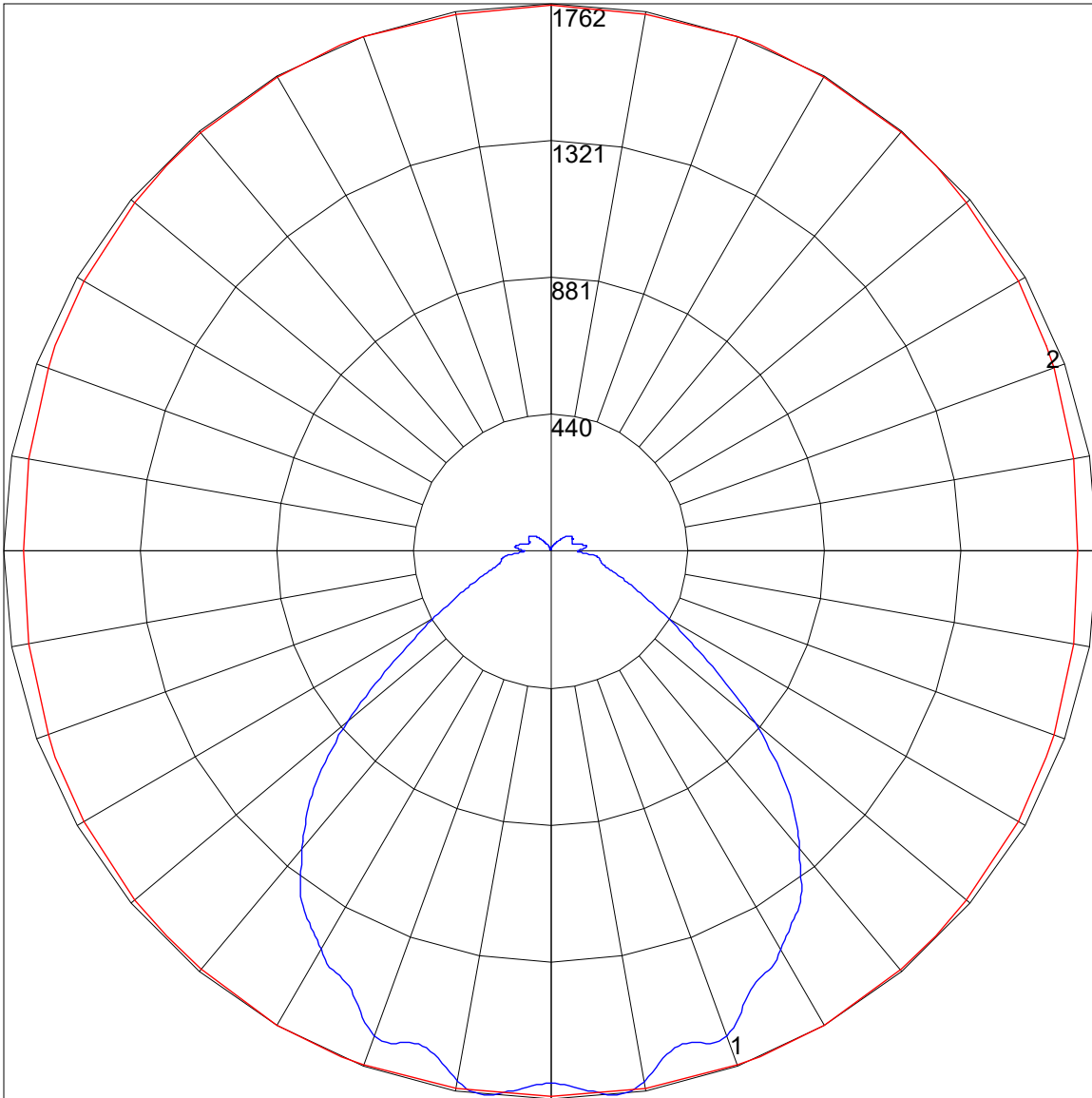
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	108	104	100	96		105	101	97	94	95	92	90	90	88	86	86	84	82	80
2	99	91	85	80		96	89	83	78	85	80	76	80	77	73	77	73	71	68
3	91	81	74	68		88	79	72	67	75	69	65	72	67	63	69	64	61	59
4	84	73	64	58		81	71	63	57	68	61	56	65	59	55	62	57	53	51
5	77	65	57	51		75	64	56	50	61	54	49	58	52	48	56	51	47	45
6	72	59	51	44		69	58	50	44	55	48	43	53	47	42	51	46	41	39
7	66	54	45	39		64	53	45	39	50	44	38	49	42	38	47	41	37	35
8	62	49	41	35		60	48	40	35	46	39	34	45	38	34	43	37	33	31
9	58	45	37	32		56	44	37	32	43	36	31	41	35	31	40	34	30	28
10	54	42	34	29		53	41	34	29	39	33	28	38	32	28	37	31	28	26

POLAR GRAPH



Maximum Candela = 1761.786 Located At Horizontal Angle = 67.5, Vertical Angle = 7
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (7) (Through Max. Cd.)