



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-22G-840K-5000L.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] G002762.001
 [TESTLAB] V-CANADA
 [TESTDATE] 2018-03-13
 [ISSUEDATE] 2019-12-04
 [MANUFAC] MERCURY LIGHTING
 [MORE]FAIRFIELD, NEW JERSEY
 [LUMCAT] LRW2X2-840K-5000 LUMENS
 [LUMINAIRE] 2x2 RECESSED T-BAR LED LUMINAIRE
 [MORE]HIGH REFLECTANCE WHITE INTERIOR
 [MORE]NO DOOR FRAME-ONE PIECE WHITE TRANSLUCENT POLYCARBONATE LENS
 [_WATTAGE] 43
 [_LUMENS]5075
 [_EFFICACY]118

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5075
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.97 ft
Luminous Width (90-270)	1.97 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4492	4509	4607
55	4183	4232	4363
65	3808	3918	4112
75	3208	3549	3913
85	1134	3340	3887

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03
1	1897.96	1897.57	1897.20	1896.85	1896.51	1896.21	1895.91	1895.64	1895.40	1895.19
2	1896.17	1895.41	1894.70	1894.02	1893.39	1892.81	1892.30	1891.85	1891.46	1891.08
3	1893.49	1892.36	1891.31	1890.35	1889.47	1888.69	1888.02	1887.42	1886.89	1886.46
4	1889.91	1888.42	1887.05	1885.83	1884.75	1883.83	1883.05	1882.38	1881.86	1881.44
5	1885.69	1883.85	1882.18	1880.71	1879.47	1878.44	1877.53	1876.81	1876.30	1875.98
6	1880.45	1878.26	1876.35	1874.71	1873.37	1872.29	1871.41	1870.79	1870.41	1870.14
7	1874.22	1871.71	1869.57	1867.82	1866.46	1865.38	1864.61	1864.14	1863.94	1863.94
8	1867.33	1864.48	1862.10	1860.20	1858.83	1857.71	1857.08	1856.94	1856.97	1857.30
9	1859.55	1856.32	1853.69	1851.66	1850.24	1849.34	1848.97	1849.05	1849.45	1850.24
10	1850.91	1847.36	1844.51	1842.40	1840.98	1840.23	1840.14	1840.57	1841.46	1842.66
11	1841.37	1837.50	1834.48	1832.31	1830.99	1830.51	1830.69	1831.46	1832.93	1834.66
12	1831.13	1826.96	1823.82	1821.69	1820.44	1820.08	1820.59	1821.89	1823.75	1826.28
13	1820.08	1815.60	1812.26	1810.12	1809.11	1809.15	1810.06	1811.77	1814.26	1817.25
14	1808.36	1803.55	1800.05	1797.89	1797.11	1797.49	1798.95	1801.25	1804.30	1808.02
15	1795.51	1790.49	1787.03	1785.13	1784.53	1785.18	1787.21	1790.22	1793.99	1793.04
16	1782.35	1777.01	1773.37	1771.44	1771.13	1772.49	1774.89	1778.62	1780.07	1777.80
17	1768.28	1762.67	1758.98	1757.22	1757.32	1758.93	1762.20	1766.53	1764.03	1762.32
18	1753.54	1747.67	1743.98	1742.38	1742.74	1744.98	1748.84	1750.22	1747.58	1746.46
19	1737.85	1731.74	1728.02	1726.68	1727.58	1730.42	1735.03	1732.96	1730.97	1730.24
20	1721.65	1715.30	1711.56	1710.40	1711.65	1715.27	1718.56	1715.35	1713.89	1713.87
21	1704.62	1698.09	1694.44	1693.60	1695.40	1699.48	1700.00	1697.36	1696.55	1697.18
22	1687.07	1680.24	1676.53	1676.04	1678.37	1683.41	1680.94	1678.99	1678.80	1680.28
23	1668.58	1661.59	1658.05	1657.94	1660.83	1665.48	1661.70	1660.12	1660.88	1663.09
24	1649.98	1642.75	1639.20	1639.24	1642.81	1645.11	1641.87	1641.16	1642.54	1645.62
25	1630.53	1623.16	1619.77	1620.24	1624.22	1624.41	1621.76	1621.78	1623.96	1628.05
26	1610.23	1602.71	1599.58	1600.60	1605.26	1603.23	1601.29	1602.20	1605.19	1610.18
27	1589.91	1582.10	1578.90	1580.21	1585.91	1581.78	1580.56	1582.18	1586.25	1592.06
28	1568.45	1560.71	1557.97	1559.57	1563.93	1560.06	1559.54	1562.07	1567.11	1570.15
29	1547.06	1539.07	1536.29	1538.61	1541.16	1537.65	1538.19	1541.71	1547.65	1547.04
30	1525.02	1516.87	1514.22	1517.11	1518.14	1515.20	1516.54	1521.06	1525.99	1523.84
31	1502.04	1493.94	1491.80	1495.16	1494.69	1492.58	1494.54	1500.35	1501.93	1500.40
32	1478.89	1470.71	1468.87	1472.76	1470.88	1469.49	1472.60	1479.17	1477.58	1476.89
33	1455.33	1447.01	1445.41	1450.01	1446.80	1446.21	1450.18	1455.42	1453.09	1453.37
34	1431.48	1423.08	1421.62	1426.92	1422.41	1422.82	1427.81	1430.13	1428.58	1429.72
35	1407.04	1398.60	1397.58	1402.04	1397.83	1399.20	1405.20	1404.53	1403.77	1406.08
36	1382.49	1373.90	1373.03	1376.58	1372.88	1375.26	1382.48	1378.92	1379.00	1382.28
37	1357.46	1348.88	1348.39	1350.50	1347.94	1351.13	1356.16	1353.21	1354.33	1358.45
38	1332.11	1323.49	1323.47	1324.57	1322.58	1326.97	1329.46	1327.64	1329.62	1334.59
39	1306.41	1297.72	1298.02	1298.45	1297.19	1302.78	1302.63	1301.92	1304.76	1310.50
40	1280.41	1271.79	1272.42	1271.81	1271.69	1278.21	1275.84	1276.00	1279.90	1284.33
41	1253.98	1245.40	1246.68	1245.21	1245.82	1252.90	1249.03	1250.29	1255.30	1257.47
42	1227.26	1218.83	1220.51	1218.45	1220.07	1224.86	1222.10	1224.32	1230.31	1230.69
43	1200.76	1192.21	1194.31	1191.45	1194.26	1196.84	1195.14	1198.63	1202.68	1203.79
44	1173.55	1165.17	1167.85	1164.39	1168.18	1168.96	1168.27	1172.74	1175.07	1177.09
45	1146.41	1138.00	1141.34	1137.36	1142.11	1141.10	1141.39	1147.03	1147.64	1150.56
46	1118.92	1110.55	1113.50	1110.15	1116.11	1113.17	1114.60	1119.10	1120.21	1124.06
47	1091.52	1083.14	1085.38	1082.71	1089.45	1085.32	1087.96	1091.03	1093.11	1097.75
48	1063.48	1055.32	1057.13	1055.42	1060.52	1057.53	1061.36	1063.11	1065.93	1071.37
49	1035.70	1027.48	1028.62	1028.27	1031.55	1029.96	1034.97	1035.19	1038.98	1045.30
50	1007.68	999.61	1000.13	1000.78	1002.71	1002.17	1006.47	1007.50	1012.24	1018.94
51	979.46	971.60	971.70	973.49	974.11	974.80	977.91	980.10	985.75	989.94
52	951.10	943.47	943.37	946.26	945.38	947.35	949.63	952.71	959.42	961.28
53	922.80	915.34	914.92	919.11	916.82	919.95	921.32	925.55	931.80	932.73

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CANDELA TABULATION - (Cont.)

54	894.44	887.05	886.63	891.77	888.52	892.50	893.43	898.79	902.67	904.26
55	865.87	858.75	858.14	863.55	860.24	863.64	865.62	871.90	873.83	876.05
56	837.58	830.56	829.77	834.29	832.05	834.72	838.04	844.42	845.14	848.06
57	808.70	802.26	801.65	804.69	804.07	806.31	810.98	815.19	816.57	820.26
58	780.22	773.87	773.42	775.41	776.18	777.90	783.83	786.11	788.28	792.52
59	751.87	745.54	745.20	746.56	748.45	749.74	756.99	757.23	760.29	765.09
60	723.35	717.33	717.33	717.44	719.84	721.70	727.88	728.54	732.45	737.01
61	694.58	689.20	689.70	688.40	690.60	693.95	698.29	700.08	704.77	708.69
62	666.08	660.96	661.92	659.80	661.77	666.59	669.10	671.93	676.88	680.60
63	637.49	632.86	634.01	631.24	632.78	639.29	640.13	643.90	648.57	652.70
64	609.09	604.46	606.54	602.71	604.02	610.14	611.36	616.05	620.50	625.02
65	580.78	575.80	577.69	574.06	575.58	580.37	582.85	587.96	592.51	597.54
66	551.73	546.62	547.57	545.09	547.42	550.97	554.68	559.68	564.96	570.24
67	522.95	517.57	516.70	514.76	519.26	521.69	526.95	531.82	537.62	543.10
68	494.39	488.22	486.19	484.86	490.74	492.71	498.67	504.35	510.44	516.11
69	465.99	459.37	455.64	455.01	460.48	464.17	470.65	477.04	483.53	489.14
70	437.82	430.20	425.21	425.85	430.96	435.86	442.84	450.07	456.83	462.41
71	409.79	400.71	395.16	397.06	401.99	408.06	415.69	423.30	430.25	435.90
72	382.00	371.11	365.39	368.97	373.65	380.83	388.94	396.85	403.81	409.52
73	354.45	341.63	335.68	341.15	345.85	353.97	362.49	370.77	377.61	383.29
74	327.15	312.22	306.73	312.78	318.91	327.88	336.58	344.88	351.67	357.28
75	299.66	283.05	278.70	285.45	292.93	302.38	311.25	319.41	325.99	331.45
76	270.67	254.17	251.49	258.79	267.55	277.41	286.36	294.28	300.56	306.67
77	241.68	225.02	225.31	233.14	243.14	253.18	261.97	269.45	275.63	283.23
78	213.26	196.12	200.36	208.52	219.53	229.62	238.10	244.92	252.70	259.90
79	185.62	168.10	175.62	185.50	196.70	206.64	214.60	222.29	230.03	236.72
80	158.01	141.67	152.07	163.69	174.87	184.24	192.00	200.38	207.55	213.69
81	131.50	116.73	130.20	142.92	153.80	162.33	170.99	178.71	185.25	190.80
82	105.79	94.74	110.19	123.36	133.42	141.90	150.28	157.24	163.13	168.03
83	80.87	75.96	92.28	104.86	113.83	122.31	129.83	135.98	141.14	145.61
84	56.96	59.93	75.98	87.27	95.59	103.12	109.62	114.91	120.35	125.30
85	35.66	44.86	60.68	70.56	77.83	84.24	89.71	95.87	100.91	105.06
86	20.43	32.97	46.31	54.62	60.47	66.38	72.51	77.51	81.56	84.91
87	11.73	23.73	33.00	39.18	44.97	50.86	55.48	59.26	62.30	64.81
88	7.23	15.09	20.73	26.61	31.58	35.51	38.58	41.09	43.10	44.75
89	4.55	7.90	12.28	15.91	18.36	20.28	21.76	22.98	23.93	24.72
90	2.74	4.05	5.16	5.38	5.24	5.10	4.99	4.88	4.79	4.70

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03
1	1895.01	1894.87	1894.75	1894.64	1894.56	1894.52	1894.51	1894.53	1894.59	1894.62
2	1890.75	1890.49	1890.29	1890.14	1890.04	1890.02	1890.00	1890.05	1890.16	1890.22
3	1886.12	1885.86	1885.70	1885.52	1885.44	1885.43	1885.50	1885.57	1885.72	1885.84
4	1881.14	1880.91	1880.79	1880.74	1880.76	1880.81	1880.92	1881.10	1881.30	1881.45
5	1875.77	1875.70	1875.73	1875.78	1875.94	1876.14	1876.35	1876.62	1876.86	1877.07
6	1870.08	1870.20	1870.42	1870.71	1871.01	1871.42	1871.76	1872.15	1872.43	1872.68
7	1864.17	1864.44	1864.93	1865.45	1866.01	1866.57	1867.12	1867.63	1868.00	1868.25
8	1857.80	1858.49	1859.21	1860.06	1860.89	1861.69	1862.49	1863.12	1863.57	1863.83
9	1851.13	1852.19	1853.40	1854.52	1855.71	1856.77	1857.80	1858.60	1859.13	1859.40
10	1844.17	1845.67	1847.27	1848.87	1850.43	1851.82	1853.05	1854.08	1854.71	1854.98
11	1836.72	1838.90	1841.00	1843.10	1842.30	1841.85	1841.74	1841.99	1842.40	1842.94
12	1828.91	1831.80	1831.26	1830.16	1829.54	1829.27	1829.25	1829.59	1830.09	1830.59
13	1820.61	1818.94	1817.88	1817.05	1816.71	1816.63	1816.77	1817.19	1817.79	1818.21
14	1806.06	1804.96	1804.25	1803.86	1803.75	1803.99	1804.30	1804.79	1805.48	1805.83

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15	1791.45	1790.77	1790.46	1790.52	1790.75	1791.29	1791.81	1792.39	1793.18	1793.45
16	1776.57	1776.15	1776.50	1777.03	1777.68	1778.56	1779.29	1780.01	1780.87	1781.09
17	1761.49	1761.56	1762.43	1763.44	1764.55	1765.73	1766.78	1767.63	1768.57	1768.71
18	1746.20	1746.81	1748.05	1749.82	1751.37	1752.86	1754.26	1755.23	1756.26	1756.31
19	1730.76	1731.90	1733.65	1735.95	1738.05	1740.00	1741.73	1742.83	1743.95	1743.89
20	1715.01	1716.81	1719.23	1722.07	1724.70	1727.13	1729.20	1730.42	1731.65	1731.46
21	1699.00	1701.66	1704.71	1708.04	1711.34	1711.97	1712.08	1712.11	1712.92	1713.18
22	1682.87	1686.32	1690.02	1693.20	1692.88	1692.75	1693.12	1693.34	1694.20	1694.47
23	1666.45	1670.78	1674.07	1673.15	1673.23	1673.50	1674.17	1674.56	1675.48	1675.76
24	1650.05	1654.85	1653.51	1653.08	1653.51	1654.24	1655.18	1655.78	1656.76	1657.07
25	1633.28	1633.55	1632.83	1632.92	1633.77	1634.90	1636.11	1637.00	1638.04	1638.37
26	1613.29	1611.99	1612.03	1612.67	1613.98	1615.57	1617.07	1618.21	1619.32	1619.66
27	1591.09	1590.62	1591.12	1592.36	1594.13	1596.20	1598.04	1599.41	1600.59	1600.96
28	1568.82	1568.89	1570.12	1572.09	1574.29	1576.84	1579.00	1580.62	1581.88	1582.25
29	1546.30	1547.12	1549.11	1551.72	1554.46	1557.43	1559.97	1561.82	1563.16	1563.55
30	1523.72	1525.29	1527.91	1531.27	1534.59	1538.03	1540.93	1543.02	1544.44	1544.85
31	1501.08	1503.50	1506.90	1510.80	1514.71	1518.00	1518.96	1519.89	1520.90	1521.68
32	1478.41	1481.59	1485.68	1490.35	1492.93	1494.03	1495.21	1496.32	1497.37	1498.05
33	1455.79	1459.63	1464.47	1467.64	1468.62	1470.04	1471.47	1472.74	1473.84	1474.43
34	1433.06	1437.65	1441.98	1442.90	1444.34	1446.03	1447.73	1449.18	1450.31	1450.81
35	1410.10	1415.63	1416.77	1418.23	1420.11	1422.04	1424.00	1425.62	1426.78	1427.19
36	1387.28	1390.56	1391.68	1393.50	1395.88	1398.07	1400.28	1402.05	1403.25	1403.58
37	1364.41	1364.90	1366.50	1368.88	1371.63	1374.15	1376.59	1378.48	1379.72	1379.97
38	1338.06	1339.30	1341.39	1344.29	1347.35	1350.22	1352.85	1354.90	1356.19	1356.35
39	1311.88	1313.65	1316.30	1319.65	1323.08	1326.31	1329.12	1331.33	1332.66	1332.73
40	1285.65	1287.96	1291.28	1295.06	1298.87	1302.44	1305.40	1307.77	1309.13	1309.11
41	1259.37	1262.45	1266.32	1270.51	1274.72	1278.55	1279.89	1281.35	1282.42	1282.71
42	1233.25	1237.04	1241.38	1246.00	1249.85	1251.52	1253.00	1254.57	1255.71	1255.98
43	1207.12	1211.64	1216.66	1220.94	1222.58	1224.42	1226.13	1227.80	1229.00	1229.25
44	1181.01	1186.24	1191.89	1193.40	1195.29	1197.35	1199.28	1201.02	1202.29	1202.52
45	1155.30	1161.19	1164.24	1165.86	1168.06	1170.31	1172.41	1174.24	1175.58	1175.78
46	1129.68	1135.05	1136.36	1138.38	1140.88	1143.31	1145.54	1147.45	1148.87	1149.03
47	1103.86	1106.74	1108.50	1110.96	1113.77	1116.36	1118.69	1120.68	1122.16	1122.30
48	1077.08	1078.56	1080.76	1083.52	1086.62	1089.41	1091.85	1093.92	1095.45	1095.58
49	1048.46	1050.44	1053.10	1056.16	1059.54	1062.46	1065.03	1067.17	1068.73	1068.87
50	1020.10	1022.38	1025.50	1028.90	1032.45	1035.53	1038.22	1040.42	1042.03	1042.16
51	991.77	994.50	997.98	1001.69	1005.41	1008.61	1010.84	1012.76	1014.23	1014.42
52	963.49	966.71	970.52	974.59	978.18	980.73	983.05	984.99	986.42	986.54
53	935.55	939.10	943.18	947.24	950.21	952.89	955.28	957.22	958.62	958.66
54	907.61	911.57	916.01	919.16	922.29	925.06	927.51	929.43	930.82	930.76
55	879.77	884.03	887.81	891.14	894.44	897.23	899.77	901.66	903.02	902.85
56	852.12	856.38	859.62	863.21	866.64	869.45	872.04	873.88	875.21	874.96
57	824.71	828.24	831.70	835.32	838.82	841.69	844.33	846.13	847.42	847.06
58	796.73	800.20	803.87	807.51	811.05	813.96	816.65	818.38	819.62	819.15
59	768.60	772.28	776.13	779.78	783.34	786.24	788.95	790.62	791.82	791.25
60	740.49	744.51	748.45	752.16	755.65	758.56	761.23	762.88	764.01	763.36
61	712.58	716.85	720.86	724.60	728.01	730.96	733.70	735.48	736.65	735.96
62	684.91	689.30	693.33	697.11	700.49	703.62	706.30	708.12	709.29	708.63
63	657.30	661.93	665.87	669.72	673.10	676.29	678.90	680.76	681.92	681.30
64	629.85	634.69	638.60	642.41	645.76	648.99	651.52	653.40	654.56	653.98
65	602.58	607.36	611.42	615.16	618.48	621.65	624.17	626.04	627.20	626.66
66	575.52	580.07	584.26	587.92	591.27	594.32	596.82	598.69	599.83	599.36
67	548.39	552.97	557.19	560.74	564.09	567.01	569.49	571.32	572.47	572.05
68	521.35	525.99	530.17	533.65	536.94	539.74	542.17	543.97	545.11	544.76
69	494.44	499.13	503.21	506.61	509.78	512.49	514.88	516.63	517.75	517.46
70	467.70	472.34	476.32	479.63	482.67	485.26	487.59	489.27	490.38	490.16

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CANDELA TABULATION - (Cont.)

71	441.14	445.62	449.53	452.71	455.60	458.92	462.00	464.15	465.40	465.00
72	414.67	419.01	422.81	426.41	430.57	434.07	437.07	439.18	440.42	440.00
73	388.34	392.53	397.22	401.79	405.82	409.24	412.15	414.22	415.44	414.98
74	362.12	367.41	372.74	377.21	381.09	384.43	387.23	389.26	390.46	389.98
75	337.23	343.20	348.34	352.66	356.40	359.64	362.32	364.29	365.48	364.98
76	313.34	319.08	324.01	328.14	331.73	334.85	337.42	339.34	340.49	339.98
77	289.56	295.06	299.74	303.66	307.09	310.09	312.53	314.38	315.51	314.98
78	265.91	271.10	275.52	279.23	282.49	285.34	287.64	289.42	290.54	289.97
79	242.37	247.20	251.36	254.83	257.92	260.59	262.75	264.46	265.55	264.97
80	218.92	223.39	227.25	230.49	233.37	235.87	237.88	239.51	240.57	239.96
81	195.56	199.64	203.17	206.31	209.52	212.18	214.29	215.90	216.91	216.30
82	172.29	176.36	180.44	183.80	186.68	189.05	190.92	192.35	193.24	192.69
83	150.58	154.75	158.36	161.31	163.84	165.92	167.56	168.81	169.58	169.08
84	129.60	133.19	136.31	138.85	141.02	142.80	144.20	145.26	145.91	145.47
85	108.68	111.68	114.28	116.41	118.22	119.69	120.84	121.71	122.25	121.87
86	87.80	90.20	92.29	93.98	95.41	96.58	97.50	98.17	98.59	98.26
87	66.97	68.76	70.30	71.56	72.62	73.48	74.15	74.63	74.92	74.65
88	46.16	47.34	48.34	49.15	49.83	50.38	50.80	51.08	51.26	51.05
89	25.38	25.93	26.39	26.75	27.05	27.28	27.45	27.54	27.59	27.45
90	4.61	4.53	4.44	4.36	4.26	4.19	4.11	4.00	3.93	3.84

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03
1	1894.69	1894.78	1894.91	1895.07	1895.26	1895.43	1895.63	1895.86	1896.12	1896.41
2	1890.36	1890.54	1890.70	1890.93	1891.22	1891.49	1891.85	1892.25	1892.71	1893.21
3	1886.03	1886.17	1886.40	1886.63	1886.96	1887.34	1887.81	1888.30	1888.86	1889.50
4	1881.61	1881.78	1881.96	1882.22	1882.60	1882.93	1883.37	1883.83	1884.39	1885.04
5	1877.20	1877.30	1877.46	1877.70	1877.96	1878.18	1878.50	1878.93	1879.40	1880.04
6	1872.76	1872.80	1872.93	1873.02	1873.08	1873.16	1873.28	1873.53	1873.94	1874.51
7	1868.27	1868.27	1868.26	1868.15	1868.00	1867.81	1867.74	1867.81	1868.07	1868.54
8	1863.78	1863.70	1863.47	1863.13	1862.65	1862.21	1861.90	1861.78	1861.83	1862.00
9	1859.27	1859.06	1858.63	1857.91	1857.15	1856.42	1855.87	1855.36	1854.99	1854.78
10	1854.75	1854.38	1853.66	1852.56	1851.48	1850.48	1849.46	1848.50	1847.55	1847.00
11	1843.56	1844.59	1845.73	1847.12	1845.72	1844.27	1842.71	1841.03	1839.73	1838.84
12	1831.17	1832.07	1833.02	1834.40	1836.43	1837.76	1835.44	1833.35	1831.55	1829.99
13	1818.72	1819.47	1820.24	1821.53	1823.24	1825.25	1827.74	1825.33	1822.72	1820.56
14	1806.28	1806.83	1807.42	1808.54	1809.93	1811.48	1813.87	1816.75	1813.44	1810.84
15	1793.80	1794.10	1794.56	1795.33	1796.28	1797.62	1799.58	1802.02	1803.97	1800.67
16	1781.28	1781.37	1781.63	1782.01	1782.52	1783.51	1784.83	1787.17	1790.62	1789.95
17	1768.76	1768.60	1768.58	1768.60	1768.63	1769.08	1770.01	1772.00	1775.00	1778.43
18	1756.20	1755.81	1755.43	1754.95	1754.59	1754.38	1754.90	1756.42	1758.65	1762.28
19	1743.59	1743.00	1742.19	1741.29	1740.35	1739.61	1739.60	1740.36	1742.12	1745.37
20	1731.00	1730.18	1728.92	1727.48	1725.89	1724.56	1724.00	1724.05	1725.30	1728.05
21	1713.96	1715.14	1715.64	1713.57	1711.35	1709.38	1708.06	1707.43	1708.16	1710.38
22	1695.13	1696.11	1697.24	1698.88	1696.73	1694.02	1691.88	1690.70	1690.69	1692.29
23	1676.31	1676.96	1677.84	1679.05	1680.72	1678.56	1675.53	1673.64	1672.98	1673.79
24	1657.46	1657.82	1658.45	1659.09	1660.31	1662.54	1659.09	1656.34	1654.73	1654.83
25	1638.59	1638.68	1638.90	1639.16	1639.93	1641.52	1642.49	1638.77	1636.20	1635.53
26	1619.72	1619.55	1619.35	1619.19	1619.48	1620.46	1622.84	1620.92	1617.50	1615.87
27	1600.86	1600.38	1599.73	1599.13	1598.92	1599.33	1600.94	1602.69	1598.50	1595.93
28	1581.97	1581.24	1580.06	1578.97	1578.23	1578.13	1578.96	1581.14	1579.10	1575.68
29	1563.07	1561.97	1560.39	1558.85	1557.54	1556.72	1556.86	1558.39	1559.60	1555.20
30	1544.19	1542.72	1540.65	1538.76	1536.85	1535.25	1534.54	1535.36	1538.05	1534.42
31	1522.25	1522.81	1521.00	1518.67	1515.98	1513.70	1512.31	1512.25	1514.13	1513.51

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CANDELA TABULATION - (Cont.)

32	1498.45	1498.77	1499.43	1498.43	1495.12	1492.17	1489.95	1489.15	1490.09	1492.33
33	1474.67	1474.75	1475.08	1475.88	1474.20	1470.55	1467.52	1465.82	1466.01	1468.62
34	1450.85	1450.77	1450.72	1451.09	1451.86	1448.83	1445.03	1442.38	1441.85	1443.37
35	1427.03	1426.80	1426.40	1426.31	1426.51	1427.16	1422.66	1418.96	1417.42	1418.16
36	1403.24	1402.74	1402.10	1401.51	1401.21	1401.97	1400.07	1395.63	1392.89	1392.99
37	1379.48	1378.73	1377.77	1376.66	1375.97	1376.00	1377.43	1372.25	1368.54	1367.57
38	1355.69	1354.68	1353.45	1351.86	1350.73	1350.12	1350.72	1348.73	1344.15	1341.90
39	1331.92	1330.65	1329.13	1327.09	1325.42	1324.28	1324.13	1325.14	1319.65	1316.46
40	1308.17	1306.67	1304.76	1302.29	1300.08	1298.50	1297.71	1298.71	1295.18	1291.01
41	1282.66	1282.67	1280.44	1277.51	1274.81	1272.63	1271.33	1271.50	1270.54	1265.39
42	1255.78	1255.69	1255.37	1252.83	1249.67	1246.80	1244.74	1244.25	1245.85	1239.79
43	1228.92	1228.67	1228.07	1227.54	1224.49	1221.06	1218.34	1216.96	1217.94	1214.35
44	1202.08	1201.67	1200.80	1200.03	1199.45	1195.21	1191.85	1189.78	1189.79	1188.64
45	1175.25	1174.68	1173.59	1172.61	1171.84	1169.60	1165.46	1162.44	1161.72	1163.27
46	1148.44	1147.67	1146.39	1145.24	1143.99	1143.29	1139.25	1135.60	1133.85	1134.80
47	1121.64	1120.69	1119.25	1117.92	1116.31	1115.17	1112.86	1108.55	1105.87	1106.03
48	1094.87	1093.73	1092.21	1090.57	1088.71	1087.04	1086.14	1081.80	1078.14	1077.42
49	1068.10	1066.79	1065.23	1063.30	1061.14	1059.00	1057.50	1055.04	1050.54	1048.77
50	1041.31	1039.88	1038.19	1036.09	1033.58	1031.19	1029.16	1028.19	1023.01	1020.34
51	1013.87	1012.95	1011.17	1008.94	1006.18	1003.37	1000.68	999.29	995.63	991.87
52	985.93	984.87	983.87	981.82	978.81	975.70	972.77	970.27	968.36	963.65
53	957.98	956.81	955.68	954.46	951.52	948.13	944.72	941.83	940.44	935.48
54	930.03	928.79	927.53	926.15	924.29	920.66	917.01	913.61	911.28	907.58
55	902.09	900.80	899.39	897.84	895.80	893.38	889.35	885.36	882.32	879.72
56	874.15	872.85	871.29	869.58	867.46	865.51	861.78	857.23	853.52	851.36
57	846.24	844.92	843.25	841.44	839.03	836.91	834.37	829.38	824.86	821.67
58	818.34	816.95	815.26	813.38	810.72	808.36	805.85	801.64	796.66	792.46
59	790.45	789.00	787.30	785.27	782.51	779.87	777.08	774.11	768.20	763.38
60	762.57	761.06	759.37	757.25	754.43	751.55	748.47	745.64	740.17	734.70
61	735.04	733.24	731.47	729.28	726.46	723.36	720.01	716.72	712.29	706.16
62	707.73	705.90	703.84	701.37	698.54	695.27	691.74	687.95	684.28	677.75
63	680.41	678.58	676.51	673.81	670.72	667.26	663.73	659.45	655.21	649.84
64	653.12	651.28	649.23	646.48	643.18	639.37	635.67	631.05	626.50	622.29
65	625.78	624.01	621.97	619.23	615.91	611.88	607.74	602.94	598.10	593.78
66	598.45	596.76	594.74	592.03	588.75	584.71	580.02	575.10	569.90	564.93
67	571.13	569.52	567.55	564.89	561.67	557.50	552.75	547.40	541.86	536.46
68	543.83	542.30	540.41	537.81	534.66	530.53	525.69	519.89	514.07	508.26
69	516.53	515.09	513.31	510.76	507.75	503.75	498.80	493.06	486.51	480.19
70	489.25	487.89	486.24	483.77	480.93	477.01	472.08	466.41	459.40	452.74
71	463.60	461.53	459.18	456.83	454.20	450.35	445.52	439.93	433.11	425.49
72	438.60	436.59	434.01	430.49	427.54	423.82	419.09	413.67	407.01	398.73
73	413.62	411.68	409.13	405.71	401.87	397.42	392.80	387.61	381.12	372.84
74	388.64	386.77	384.27	380.98	377.18	372.20	366.69	361.76	355.45	347.39
75	363.67	361.87	359.45	356.28	352.55	347.75	341.77	336.11	330.08	322.39
76	338.70	336.98	334.65	331.62	328.00	323.38	317.70	311.38	304.99	297.69
77	313.73	312.09	309.88	306.99	303.52	299.10	293.72	287.76	280.43	273.30
78	288.78	287.22	285.14	282.39	279.09	274.90	269.86	264.25	257.32	249.20
79	263.81	262.35	260.41	257.83	254.71	250.78	246.11	240.89	234.34	226.45
80	238.86	237.50	235.70	233.30	230.38	226.72	222.46	217.62	211.56	204.34
81	215.14	213.64	211.63	208.93	206.10	202.74	198.90	194.48	188.94	182.45
82	191.65	190.29	188.47	186.05	183.00	179.22	175.43	171.46	166.50	160.72
83	168.14	166.94	165.33	163.19	160.47	157.13	153.27	148.74	144.22	139.19
84	144.66	143.60	142.21	140.35	137.98	135.08	131.73	127.77	122.96	117.85
85	121.17	120.28	119.10	117.54	115.52	113.08	110.25	106.89	102.81	98.12
86	97.69	96.95	95.99	94.73	93.08	91.11	88.82	86.08	82.77	78.94
87	74.20	73.64	72.90	71.93	70.67	69.17	67.42	65.33	62.80	59.90

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CANDELA TABULATION - (Cont.)

88	50.73	50.32	49.81	49.14	48.27	47.24	46.05	44.62	42.89	40.93
89	27.25	27.01	26.72	26.37	25.87	25.33	24.70	23.94	23.02	22.04
90	3.78	3.70	3.64	3.58	3.48	3.42	3.36	3.28	3.18	3.17

Vert. Horizontal Angles

	150	155	160	165	170	175	180	185	190	195
0	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03
1	1896.70	1897.03	1897.37	1897.73	1898.09	1898.47	1898.85	1898.47	1898.11	1897.75
2	1893.75	1894.34	1894.97	1895.65	1896.36	1897.11	1897.86	1897.11	1896.39	1895.70
3	1890.18	1890.91	1891.74	1892.66	1893.65	1894.70	1895.81	1894.72	1893.68	1892.72
4	1885.84	1886.70	1887.69	1888.81	1890.06	1891.43	1892.91	1891.46	1890.12	1888.90
5	1880.82	1881.79	1882.90	1884.20	1885.69	1887.36	1889.18	1887.39	1885.76	1884.31
6	1875.28	1876.28	1877.48	1878.92	1880.61	1882.53	1884.69	1882.57	1880.68	1879.02
7	1869.25	1870.11	1871.30	1872.79	1874.62	1876.77	1879.24	1876.81	1874.68	1872.90
8	1862.46	1863.16	1864.24	1865.73	1867.67	1870.05	1872.85	1870.11	1867.78	1865.88
9	1854.90	1855.46	1856.50	1858.00	1860.03	1862.61	1865.71	1862.66	1860.14	1858.16
10	1846.89	1847.26	1848.13	1849.56	1851.61	1854.35	1857.77	1854.42	1851.73	1849.72
11	1838.34	1838.26	1838.88	1840.24	1842.31	1845.19	1848.87	1845.26	1842.46	1840.47
12	1828.93	1828.58	1828.96	1830.18	1832.26	1835.27	1839.21	1835.33	1832.39	1830.42
13	1819.12	1818.39	1818.50	1819.55	1821.57	1824.71	1828.91	1824.77	1821.72	1819.76
14	1808.86	1807.64	1807.28	1807.92	1809.87	1813.10	1817.57	1813.21	1810.09	1808.26
15	1798.02	1795.96	1795.23	1795.62	1797.41	1800.65	1805.35	1800.77	1797.64	1795.98
16	1786.28	1783.77	1782.53	1782.58	1784.24	1787.55	1792.48	1787.65	1784.46	1782.94
17	1774.13	1770.98	1769.26	1769.03	1770.46	1773.71	1778.81	1773.81	1770.69	1769.37
18	1761.52	1757.71	1755.37	1754.81	1755.95	1759.11	1764.40	1759.20	1756.11	1755.07
19	1748.46	1743.97	1740.97	1739.84	1740.76	1743.89	1749.33	1743.94	1740.87	1740.06
20	1732.69	1729.54	1725.96	1724.16	1724.68	1727.75	1733.37	1727.80	1724.82	1724.35
21	1714.41	1714.76	1710.13	1707.86	1708.13	1711.03	1716.75	1711.14	1708.35	1708.12
22	1695.83	1699.13	1693.84	1690.94	1690.77	1693.62	1699.50	1693.76	1691.08	1691.31
23	1676.60	1681.85	1676.93	1673.47	1672.87	1675.53	1681.58	1675.66	1673.14	1673.88
24	1656.99	1661.72	1659.48	1655.24	1654.35	1656.76	1662.88	1656.92	1654.59	1655.61
25	1636.94	1641.07	1641.51	1636.51	1635.19	1637.58	1643.82	1637.74	1635.62	1637.03
26	1616.58	1620.05	1622.88	1617.50	1615.71	1617.73	1623.95	1617.90	1616.14	1617.97
27	1595.75	1598.49	1604.23	1597.96	1595.48	1597.18	1603.49	1597.41	1595.81	1598.43
28	1574.66	1576.90	1582.90	1577.67	1574.68	1576.07	1582.32	1576.33	1575.18	1578.41
29	1553.30	1554.84	1560.02	1557.14	1553.48	1554.65	1561.06	1554.97	1554.05	1557.93
30	1531.73	1532.17	1537.04	1535.97	1531.69	1532.52	1538.91	1532.79	1532.34	1536.92
31	1509.68	1509.42	1513.40	1514.30	1509.55	1510.10	1516.57	1510.43	1510.04	1515.18
32	1487.29	1486.31	1489.38	1492.45	1486.93	1487.15	1493.54	1487.48	1487.64	1493.42
33	1464.84	1462.81	1465.27	1470.15	1463.89	1463.63	1470.01	1464.06	1464.54	1471.22
34	1442.23	1439.07	1440.81	1447.44	1440.35	1439.83	1446.14	1440.17	1441.07	1448.59
35	1419.17	1415.16	1416.06	1422.70	1416.61	1415.64	1421.87	1416.03	1417.36	1423.72
36	1396.08	1390.99	1390.93	1397.08	1392.57	1390.97	1397.13	1391.42	1393.34	1398.20
37	1370.01	1366.62	1365.60	1371.15	1367.86	1365.77	1371.76	1366.27	1368.86	1372.24
38	1343.49	1341.78	1340.19	1344.60	1342.97	1340.40	1346.38	1341.01	1344.03	1345.97
39	1316.98	1317.20	1314.23	1318.13	1317.75	1314.82	1320.66	1315.39	1318.94	1319.56
40	1290.16	1292.39	1288.17	1291.18	1292.42	1288.62	1294.29	1289.30	1293.59	1292.65
41	1263.50	1266.46	1262.13	1264.27	1266.55	1262.47	1267.98	1263.17	1268.05	1265.77
42	1236.95	1238.65	1235.74	1236.94	1240.69	1235.75	1241.22	1236.52	1242.10	1238.73
43	1210.05	1210.92	1209.27	1209.57	1214.18	1208.83	1214.07	1209.74	1215.88	1211.35
44	1183.30	1182.97	1182.65	1181.86	1187.87	1181.87	1186.96	1182.70	1189.62	1183.79
45	1156.69	1155.10	1156.04	1154.20	1161.40	1154.58	1159.23	1155.35	1163.02	1156.23
46	1130.23	1127.20	1129.35	1126.41	1133.63	1126.99	1131.75	1127.85	1135.32	1128.39
47	1103.46	1099.32	1101.95	1098.60	1104.64	1099.15	1103.54	1100.10	1106.54	1100.68
48	1076.92	1071.48	1073.11	1070.56	1075.71	1071.61	1076.17	1072.65	1077.56	1072.87

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CANDELA TABULATION - (Cont.)

49	1050.45	1043.83	1044.18	1042.41	1047.01	1043.78	1047.75	1044.90	1048.88	1044.66
50	1021.05	1016.28	1015.14	1014.59	1018.10	1015.71	1019.30	1016.85	1020.30	1017.02
51	991.49	988.85	986.23	986.61	989.16	987.68	990.79	988.70	991.15	989.08
52	962.31	961.61	957.53	958.57	960.15	959.30	962.43	960.53	962.17	961.20
53	933.05	933.87	928.74	930.42	930.70	930.96	933.78	932.21	932.99	933.08
54	904.04	905.91	900.05	902.26	901.63	902.59	904.98	903.90	904.07	905.30
55	875.09	875.56	871.19	873.22	872.46	874.16	876.14	875.65	875.06	876.83
56	846.20	845.38	842.34	843.33	843.14	845.49	847.28	847.02	846.18	847.33
57	817.29	815.35	813.51	813.42	813.42	816.87	818.31	818.48	817.08	818.20
58	788.92	785.42	785.17	783.21	784.02	788.37	789.51	790.27	788.20	789.14
59	760.70	755.75	756.83	752.84	754.55	759.87	760.34	761.95	759.54	760.18
60	731.20	726.21	727.08	722.90	724.85	731.47	731.61	733.49	730.79	731.44
61	701.57	697.03	695.94	692.92	694.83	702.78	702.94	705.40	702.23	703.07
62	672.26	668.17	665.18	662.99	665.00	673.77	673.98	676.84	673.86	674.84
63	643.61	639.50	634.81	632.97	634.60	644.66	644.72	648.32	645.69	646.72
64	614.98	610.01	604.70	603.33	603.98	614.26	616.13	619.94	617.28	619.01
65	586.58	580.29	574.88	573.73	573.07	581.94	587.43	590.41	588.48	591.82
66	558.64	551.16	545.28	544.15	541.95	549.69	558.53	560.95	559.35	563.93
67	531.26	522.40	516.24	513.10	510.81	517.89	527.33	531.27	530.32	534.15
68	502.77	494.12	487.35	482.50	480.00	486.76	496.35	502.08	501.18	504.84
69	474.26	466.14	457.86	452.03	449.53	456.08	465.18	472.95	472.93	475.84
70	446.21	438.72	428.82	422.16	419.42	425.46	435.20	443.83	444.82	447.22
71	418.34	410.94	400.47	392.45	389.63	394.74	405.91	414.77	417.28	419.07
72	391.00	382.98	373.05	363.84	360.32	363.72	377.07	385.56	389.99	391.50
73	364.12	355.92	346.20	335.62	331.70	333.03	348.24	356.94	363.43	364.24
74	337.87	329.23	319.94	308.12	302.38	302.83	319.59	328.75	335.17	337.00
75	313.02	303.21	293.74	281.69	273.73	272.74	290.57	300.65	306.82	310.13
76	288.67	277.92	268.10	256.20	245.85	243.21	260.99	272.90	279.40	284.03
77	264.81	254.11	243.35	231.81	219.14	214.59	231.66	245.22	252.48	258.87
78	241.32	231.10	219.46	208.30	193.69	187.20	202.77	217.97	226.01	234.03
79	218.36	208.77	196.59	185.15	170.04	160.67	174.57	191.32	200.38	208.91
80	196.09	186.99	175.39	163.26	148.34	136.01	147.07	166.05	175.83	184.83
81	174.74	165.68	154.88	142.53	128.19	113.44	120.59	142.04	152.58	161.58
82	153.69	145.24	135.00	123.07	109.30	92.35	94.43	118.04	130.33	139.79
83	132.92	125.35	115.77	104.80	91.11	73.07	69.97	94.76	108.52	119.47
84	112.41	105.80	97.45	87.49	74.57	56.64	47.60	73.80	88.33	99.96
85	92.22	86.59	79.63	71.04	59.52	43.54	28.86	55.67	70.30	81.21
86	74.18	68.25	62.26	55.29	45.77	33.10	17.69	41.48	54.06	63.11
87	56.30	51.79	46.24	40.09	32.78	23.39	11.20	29.80	39.47	45.58
88	38.55	35.50	31.74	26.85	20.45	15.01	7.40	20.82	26.18	31.82
89	20.86	19.33	17.42	14.89	11.20	7.67	4.62	13.57	17.02	20.48
90	3.22	3.22	3.20	3.12	3.07	2.74	2.05	9.19	9.29	9.34

Vert. Angles **Horizontal Angles**

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03
1	1897.40	1897.07	1896.75	1896.46	1896.19	1895.93	1895.71	1895.51	1895.34	1895.15
2	1895.04	1894.41	1893.84	1893.30	1892.82	1892.37	1891.98	1891.66	1891.39	1891.10
3	1891.82	1891.01	1890.29	1889.63	1889.01	1888.48	1888.01	1887.55	1887.18	1886.88
4	1887.80	1886.82	1885.98	1885.22	1884.58	1884.04	1883.60	1883.20	1882.89	1882.53
5	1883.05	1881.99	1881.04	1880.27	1879.65	1879.18	1878.78	1878.50	1878.30	1878.09
6	1877.62	1876.46	1875.51	1874.79	1874.27	1873.89	1873.64	1873.52	1873.47	1873.44
7	1871.45	1870.30	1869.46	1868.82	1868.39	1868.19	1868.23	1868.27	1868.44	1868.62
8	1864.42	1863.37	1862.70	1862.29	1862.14	1862.17	1862.36	1862.79	1863.20	1863.65
9	1856.72	1855.78	1855.25	1855.12	1855.34	1855.75	1856.33	1856.97	1857.85	1858.54

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CANDELA TABULATION - (Cont.)

10	1848.34	1847.52	1847.23	1847.45	1848.02	1848.92	1849.94	1851.04	1852.15	1853.33
11	1839.18	1838.58	1838.67	1839.24	1840.27	1841.63	1843.21	1844.83	1846.40	1847.99
12	1829.28	1828.95	1829.42	1830.44	1832.03	1833.98	1836.13	1838.35	1837.07	1835.17
13	1818.73	1818.74	1819.60	1821.17	1823.28	1825.90	1828.51	1825.92	1823.90	1822.27
14	1807.63	1808.01	1809.22	1811.48	1814.16	1817.41	1814.50	1812.29	1810.53	1809.21
15	1795.71	1796.54	1798.50	1801.15	1804.73	1802.82	1800.19	1798.29	1796.97	1796.03
16	1783.00	1784.38	1787.01	1790.56	1791.16	1787.90	1785.54	1784.11	1783.26	1782.72
17	1769.68	1771.61	1774.89	1779.34	1775.63	1772.56	1770.72	1769.70	1769.27	1769.25
18	1755.83	1758.28	1762.31	1763.15	1759.54	1757.07	1755.65	1755.03	1755.17	1755.66
19	1741.31	1744.49	1749.18	1746.19	1742.97	1741.14	1740.21	1740.28	1740.95	1741.95
20	1726.18	1729.97	1733.29	1728.76	1726.08	1724.91	1724.67	1725.27	1726.50	1728.06
21	1710.41	1714.99	1714.90	1711.02	1708.89	1708.20	1708.79	1710.05	1711.94	1714.11
22	1694.30	1699.46	1696.15	1692.80	1691.33	1691.39	1692.71	1694.75	1697.35	1699.44
23	1677.59	1682.41	1677.01	1674.25	1673.53	1674.37	1676.25	1679.21	1681.42	1679.79
24	1660.03	1662.49	1657.60	1655.35	1655.24	1656.93	1659.76	1663.28	1661.12	1659.96
25	1642.01	1641.69	1637.72	1636.06	1636.74	1639.33	1643.14	1642.41	1640.86	1640.08
26	1623.73	1620.56	1617.22	1616.53	1618.08	1621.44	1623.49	1621.32	1620.48	1620.23
27	1604.99	1599.30	1596.27	1596.60	1599.08	1603.37	1601.64	1600.29	1600.02	1600.38
28	1583.53	1577.56	1575.28	1576.28	1579.85	1581.86	1579.80	1579.16	1579.47	1580.25
29	1560.99	1555.49	1553.91	1555.59	1560.25	1559.23	1557.82	1557.93	1558.87	1560.24
30	1537.99	1533.10	1532.41	1535.01	1538.72	1536.33	1535.73	1536.50	1538.17	1540.24
31	1514.51	1510.33	1510.42	1513.98	1514.73	1513.32	1513.56	1515.04	1517.45	1520.22
32	1490.35	1487.32	1488.24	1492.94	1490.92	1490.29	1491.37	1493.63	1496.71	1500.16
33	1466.33	1463.70	1465.71	1469.47	1466.92	1467.09	1469.10	1472.19	1475.93	1477.70
34	1441.91	1440.01	1443.20	1444.43	1442.91	1443.75	1446.67	1450.67	1453.75	1452.94
35	1417.13	1416.33	1420.02	1419.20	1418.74	1420.52	1424.31	1429.08	1428.47	1428.19
36	1391.94	1391.94	1397.11	1394.21	1394.41	1397.23	1402.02	1403.97	1403.14	1403.42
37	1366.86	1367.79	1371.24	1368.67	1370.10	1373.99	1379.43	1378.11	1377.94	1378.65
38	1341.34	1343.16	1344.57	1343.36	1345.73	1350.73	1352.89	1352.25	1352.73	1353.91
39	1315.64	1318.62	1318.31	1318.12	1321.43	1327.28	1326.32	1326.33	1327.46	1329.25
40	1289.67	1293.57	1291.71	1292.59	1296.85	1300.84	1299.78	1300.54	1302.22	1304.54
41	1263.69	1268.01	1265.32	1267.24	1272.51	1273.55	1273.41	1274.76	1277.04	1279.85
42	1237.37	1240.38	1238.62	1241.65	1248.09	1246.26	1247.00	1249.03	1251.88	1255.18
43	1211.10	1212.65	1212.05	1216.29	1220.04	1219.14	1220.57	1223.22	1226.67	1229.97
44	1184.62	1184.95	1185.38	1190.96	1191.99	1191.93	1194.14	1197.42	1201.67	1202.82
45	1158.01	1157.38	1159.02	1165.61	1164.06	1164.80	1167.64	1171.75	1174.45	1175.77
46	1131.45	1129.65	1132.64	1137.35	1136.19	1137.91	1141.53	1145.56	1147.01	1148.75
47	1104.30	1101.96	1106.25	1108.64	1108.42	1111.01	1115.20	1117.92	1119.74	1121.81
48	1075.41	1074.34	1080.07	1080.23	1080.90	1084.31	1088.55	1090.22	1092.44	1094.84
49	1046.87	1046.88	1053.83	1051.73	1053.37	1057.69	1060.44	1062.60	1065.28	1067.99
50	1018.23	1019.65	1024.63	1023.46	1025.92	1030.86	1032.45	1035.13	1038.25	1041.24
51	989.28	992.50	995.25	995.25	998.71	1002.33	1004.44	1007.72	1011.14	1014.49
52	961.04	965.39	966.14	967.23	971.68	973.88	976.71	980.35	984.15	987.79
53	932.64	938.11	937.45	939.34	943.88	945.72	949.06	953.19	957.30	960.77
54	904.41	910.53	908.73	911.72	915.21	917.91	921.66	926.15	930.50	932.73
55	876.26	880.95	880.17	884.23	886.63	889.89	894.37	899.23	902.29	904.77
56	848.24	851.47	851.71	856.11	858.34	862.19	867.18	871.58	874.24	876.90
57	820.31	822.11	823.36	827.26	830.20	834.61	840.16	843.25	846.11	849.03
58	793.05	792.98	795.62	798.65	802.31	807.32	812.07	814.99	818.11	821.26
59	765.75	764.16	768.06	770.22	774.58	780.36	783.52	786.81	790.21	793.53
60	737.07	735.46	739.36	742.16	747.12	752.22	755.23	758.76	762.37	765.85
61	706.93	707.21	710.72	714.24	719.96	723.72	727.05	730.88	734.61	738.17
62	677.65	679.30	682.10	686.53	692.43	695.50	699.07	703.07	706.98	710.53
63	648.47	651.70	654.05	659.21	663.76	667.33	671.37	675.37	679.48	683.25
64	619.71	623.12	626.24	632.21	635.47	639.41	643.57	647.80	652.11	656.20
65	591.37	594.49	598.75	604.30	607.56	611.60	615.97	620.53	624.98	629.20

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CANDELA TABULATION - (Cont.)

66	563.07	566.31	571.65	576.11	579.65	584.05	588.64	593.55	598.04	602.23
67	535.18	538.49	545.02	548.08	552.04	556.69	561.64	566.62	571.20	575.33
68	507.52	510.96	517.07	520.23	524.71	529.57	534.83	539.81	544.42	548.45
69	478.85	483.82	488.88	492.73	497.63	502.82	508.17	513.13	517.71	521.63
70	450.72	457.06	461.11	465.49	470.86	476.30	481.63	486.57	491.07	494.87
71	422.99	429.84	433.59	438.59	444.33	450.00	455.23	460.10	464.47	468.18
72	396.15	401.93	406.52	412.16	418.13	423.79	429.00	433.76	437.95	441.93
73	369.72	374.70	379.83	386.19	392.21	397.79	402.91	407.53	412.23	416.89
74	343.71	348.01	353.55	360.43	366.52	372.04	376.99	382.20	387.34	391.89
75	316.68	321.67	328.11	335.06	341.06	346.43	351.91	357.49	362.51	366.94
76	290.16	295.85	303.08	309.96	315.83	321.45	327.45	332.86	337.74	342.02
77	264.47	270.89	278.42	285.09	290.88	297.26	303.09	308.29	313.02	317.14
78	239.48	246.78	254.15	260.49	267.04	273.22	278.82	283.81	288.35	292.30
79	215.22	223.23	230.28	236.91	243.42	249.32	254.62	259.39	263.73	267.49
80	192.32	200.21	207.02	213.81	219.97	225.51	230.51	235.04	239.16	242.72
81	170.10	177.63	184.56	190.92	196.65	201.82	206.48	210.74	214.63	218.11
82	148.51	155.76	162.37	168.25	173.48	178.22	182.53	186.92	191.27	194.88
83	127.60	134.44	140.43	145.75	150.43	154.99	160.15	164.64	168.48	171.67
84	107.42	113.49	118.72	123.42	128.79	134.02	138.52	142.41	145.72	148.49
85	87.67	92.83	97.36	103.60	108.74	113.15	116.94	120.21	123.00	125.33
86	68.30	73.45	79.55	84.61	88.77	92.34	95.42	98.06	100.31	102.18
87	51.33	57.24	61.88	65.74	68.90	71.60	73.94	75.93	77.63	79.04
88	37.18	41.19	44.34	46.95	49.08	50.91	52.48	53.83	54.96	55.92
89	23.23	25.28	26.89	28.21	29.31	30.24	31.05	31.74	32.31	32.80
90	9.38	9.42	9.46	9.51	9.56	9.59	9.63	9.65	9.67	9.68

Vert. Angles **Horizontal Angles**

	<u>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03
1	1894.99	1894.87	1894.77	1894.72	1894.68	1894.62	1894.60	1894.60	1894.65	1894.73
2	1890.88	1890.72	1890.54	1890.41	1890.34	1890.22	1890.18	1890.20	1890.20	1890.29
3	1886.68	1886.45	1886.30	1886.10	1886.00	1885.84	1885.76	1885.67	1885.69	1885.74
4	1882.29	1882.17	1881.99	1881.81	1881.66	1881.45	1881.27	1881.14	1881.07	1881.05
5	1877.88	1877.74	1877.67	1877.52	1877.32	1877.06	1876.78	1876.53	1876.35	1876.19
6	1873.41	1873.31	1873.35	1873.23	1872.98	1872.67	1872.27	1871.88	1871.55	1871.14
7	1868.77	1868.84	1868.92	1868.90	1868.63	1868.24	1867.70	1867.17	1866.55	1866.02
8	1864.05	1864.35	1864.48	1864.58	1864.29	1863.81	1863.11	1862.42	1861.52	1860.72
9	1859.26	1859.74	1860.03	1860.26	1859.96	1859.37	1858.51	1857.51	1856.48	1855.26
10	1854.34	1855.12	1855.59	1855.95	1855.62	1854.94	1853.90	1852.60	1851.29	1849.67
11	1846.51	1845.36	1844.44	1843.94	1843.31	1842.89	1842.69	1842.74	1843.23	1843.96
12	1833.87	1832.86	1832.07	1831.60	1831.00	1830.54	1830.27	1830.20	1830.46	1831.12
13	1821.16	1820.27	1819.63	1819.21	1818.68	1818.17	1817.78	1817.60	1817.60	1817.98
14	1808.29	1807.65	1807.20	1806.83	1806.37	1805.81	1805.31	1804.95	1804.69	1804.81
15	1795.38	1794.99	1794.73	1794.46	1794.06	1793.45	1792.84	1792.24	1791.73	1791.46
16	1782.40	1782.30	1782.22	1782.09	1781.75	1781.12	1780.34	1779.50	1778.69	1777.98
17	1769.30	1769.55	1769.72	1769.72	1769.44	1768.79	1767.84	1766.70	1765.57	1764.39
18	1756.15	1756.75	1757.17	1757.36	1757.13	1756.46	1755.32	1753.90	1752.38	1750.71
19	1743.01	1743.92	1744.58	1744.97	1744.82	1744.12	1742.80	1741.03	1739.09	1736.97
20	1729.72	1731.05	1731.97	1732.59	1732.51	1731.78	1730.29	1728.17	1725.72	1723.02
21	1716.32	1715.99	1714.98	1714.38	1713.85	1713.51	1713.20	1713.10	1712.32	1709.01
22	1698.03	1697.00	1696.23	1695.72	1695.20	1694.77	1694.26	1693.94	1693.89	1694.32
23	1678.71	1677.93	1677.48	1677.06	1676.56	1676.05	1675.31	1674.68	1674.33	1674.39
24	1659.36	1658.90	1658.72	1658.40	1657.91	1657.31	1656.36	1655.44	1654.76	1654.33
25	1639.89	1639.88	1639.91	1639.71	1639.26	1638.56	1637.38	1636.17	1635.00	1634.17
26	1620.43	1620.83	1621.11	1621.03	1620.62	1619.81	1618.41	1616.93	1615.28	1613.99

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CANDELA TABULATION - (Cont.)

27	1601.01	1601.71	1602.32	1602.35	1601.97	1601.07	1599.45	1597.60	1595.60	1593.78
28	1581.51	1582.63	1583.48	1583.69	1583.32	1582.33	1580.46	1578.30	1575.85	1573.55
29	1561.99	1563.50	1564.65	1565.01	1564.68	1563.59	1561.48	1558.93	1556.09	1553.30
30	1542.42	1544.40	1545.83	1546.35	1546.03	1544.86	1542.52	1539.55	1536.27	1533.00
31	1522.83	1524.61	1523.96	1523.29	1522.60	1521.78	1520.61	1519.60	1516.46	1512.63
32	1501.16	1500.67	1500.25	1499.78	1499.16	1498.25	1496.93	1495.75	1494.77	1492.27
33	1476.92	1476.71	1476.56	1476.27	1475.73	1474.74	1473.27	1471.89	1470.53	1469.72
34	1452.68	1452.73	1452.86	1452.77	1452.29	1451.23	1449.63	1448.02	1446.32	1445.09
35	1428.29	1428.79	1429.15	1429.26	1428.86	1427.73	1425.99	1424.18	1422.13	1420.48
36	1403.98	1404.87	1405.47	1405.76	1405.42	1404.23	1402.39	1400.32	1397.99	1395.85
37	1379.69	1380.97	1381.80	1382.25	1381.99	1380.74	1378.81	1376.50	1373.86	1371.27
38	1355.44	1356.96	1358.05	1358.72	1358.55	1357.23	1355.19	1352.63	1349.72	1346.73
39	1331.21	1332.92	1334.31	1335.20	1335.12	1333.74	1331.57	1328.76	1325.60	1322.20
40	1306.89	1308.94	1310.58	1311.68	1311.68	1310.25	1307.97	1304.94	1301.47	1297.65
41	1282.56	1284.99	1285.33	1285.67	1285.39	1284.20	1282.74	1281.10	1277.36	1273.16
42	1257.67	1258.46	1258.95	1259.35	1259.10	1257.84	1256.28	1254.42	1252.58	1248.74
43	1230.88	1231.86	1232.58	1233.03	1232.81	1231.49	1229.82	1227.73	1225.62	1223.74
44	1204.03	1205.28	1206.21	1206.73	1206.52	1205.15	1203.38	1201.06	1198.71	1196.51
45	1177.23	1178.73	1179.81	1180.42	1180.23	1178.80	1176.91	1174.42	1171.88	1169.37
46	1150.52	1152.16	1153.37	1154.09	1153.94	1152.44	1150.42	1147.78	1145.02	1142.21
47	1123.89	1125.65	1126.97	1127.77	1127.64	1126.09	1123.95	1121.18	1118.22	1115.07
48	1097.22	1099.15	1100.58	1101.45	1101.36	1099.74	1097.49	1094.60	1091.40	1087.97
49	1070.62	1072.66	1074.21	1075.14	1075.07	1073.39	1071.05	1068.03	1064.65	1060.95
50	1044.05	1046.21	1047.85	1048.81	1048.78	1047.04	1044.62	1041.49	1037.96	1034.01
51	1017.51	1019.74	1020.81	1021.44	1021.33	1019.70	1017.59	1014.94	1011.35	1007.12
52	990.61	992.04	993.23	993.94	993.88	992.25	990.10	987.39	984.44	980.27
53	962.70	964.37	965.65	966.45	966.43	964.80	962.63	959.86	956.74	953.22
54	934.87	936.73	938.06	938.94	938.97	937.37	935.16	932.35	929.09	925.47
55	907.07	909.10	910.48	911.44	911.52	909.94	907.70	904.84	901.51	897.86
56	879.30	881.50	882.93	883.93	884.07	882.52	880.26	877.36	873.98	870.32
57	851.59	853.92	855.39	856.42	856.62	855.10	852.85	849.91	846.50	842.70
58	823.92	826.28	827.88	828.91	829.18	827.68	825.46	822.50	819.08	815.14
59	796.29	798.67	800.36	801.40	801.73	800.27	798.07	795.12	791.70	787.68
60	768.69	771.07	772.86	773.89	774.27	772.86	770.67	767.78	764.34	760.29
61	741.16	743.58	745.64	746.75	747.17	745.74	743.45	740.50	737.01	733.04
62	713.85	716.52	718.60	719.67	720.07	718.63	716.33	713.42	709.79	705.88
63	686.73	689.47	691.57	692.58	692.97	691.53	689.23	686.35	682.68	678.72
64	659.67	662.46	664.54	665.50	665.88	664.42	662.14	659.29	655.62	651.57
65	632.64	635.46	637.49	638.45	638.77	637.32	635.05	632.24	628.59	624.50
66	605.64	608.47	610.44	611.39	611.68	610.21	607.98	605.21	601.59	597.50
67	578.68	581.49	583.41	584.34	584.57	583.11	580.91	578.19	574.62	570.58
68	551.78	554.53	556.39	557.29	557.48	556.01	553.86	551.20	547.69	543.71
69	524.91	527.60	529.38	530.24	530.37	528.92	526.82	524.24	520.81	516.89
70	498.10	500.67	502.38	503.19	503.28	501.83	499.79	497.29	494.00	490.12
71	471.31	474.39	476.68	477.92	478.18	476.62	474.17	471.07	467.22	463.42
72	445.98	449.22	451.49	452.78	453.08	451.54	449.11	446.05	442.06	437.21
73	420.87	424.06	426.33	427.65	427.98	426.47	424.07	421.03	417.12	412.35
74	395.78	398.92	401.16	402.51	402.88	401.40	399.03	396.04	392.19	387.54
75	370.73	373.79	376.01	377.37	377.79	376.33	374.00	371.06	367.29	362.76
76	345.70	348.67	350.85	352.23	352.68	351.26	348.98	346.08	342.42	338.03
77	320.70	323.57	325.71	327.09	327.58	326.20	323.97	321.12	317.57	313.33
78	295.73	298.47	300.56	301.96	302.48	301.14	298.96	296.18	292.75	288.66
79	270.77	273.39	275.42	276.82	277.39	276.07	273.95	271.24	267.94	264.03
80	245.84	248.32	250.28	251.69	252.29	251.01	248.95	246.32	243.16	239.45
81	221.46	224.06	226.06	227.46	228.03	226.84	224.87	222.25	218.98	215.02
82	197.88	200.21	202.01	203.26	203.77	202.70	200.95	198.60	195.67	192.12

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CANDELA TABULATION - (Cont.)

83	174.32	176.37	177.96	179.06	179.52	178.58	177.03	174.97	172.39	169.26
84	150.77	152.55	153.91	154.86	155.26	154.45	153.13	151.34	149.12	146.42
85	127.24	128.73	129.88	130.67	131.00	130.33	129.22	127.73	125.85	123.60
86	103.72	104.91	105.84	106.47	106.76	106.20	105.31	104.11	102.61	100.79
87	80.21	81.10	81.80	82.28	82.50	82.08	81.41	80.50	79.37	78.01
88	56.69	57.30	57.77	58.09	58.24	57.96	57.51	56.91	56.15	55.22
89	33.19	33.50	33.74	33.89	33.99	33.83	33.60	33.31	32.93	32.46
90	9.69	9.70	9.70	9.70	9.73	9.71	9.71	9.71	9.70	9.69

Vert. Angles	Horizontal Angles									
	<u>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03	1899.03
1	1894.83	1894.94	1895.08	1895.26	1895.46	1895.69	1895.96	1896.24	1896.55	1896.88
2	1890.44	1890.63	1890.87	1891.19	1891.56	1891.93	1892.38	1892.89	1893.45	1894.07
3	1885.90	1886.07	1886.33	1886.65	1887.05	1887.57	1888.14	1888.80	1889.55	1890.41
4	1881.12	1881.19	1881.39	1881.68	1882.09	1882.59	1883.23	1883.98	1884.88	1885.92
5	1876.07	1876.05	1876.12	1876.31	1876.59	1877.07	1877.74	1878.61	1879.61	1880.84
6	1870.90	1870.65	1870.50	1870.52	1870.74	1871.12	1871.69	1872.52	1873.56	1874.85
7	1865.48	1864.96	1864.61	1864.41	1864.35	1864.50	1864.93	1865.63	1866.66	1867.97
8	1859.85	1859.05	1858.37	1857.80	1857.43	1857.34	1857.44	1858.01	1859.05	1860.39
9	1854.04	1852.87	1851.75	1850.79	1849.98	1849.49	1849.36	1849.67	1850.52	1851.90
10	1848.10	1846.39	1844.82	1843.30	1842.00	1841.08	1840.65	1840.75	1841.37	1842.68
11	1841.83	1839.68	1837.49	1835.33	1833.56	1832.25	1831.29	1831.04	1831.42	1832.61
12	1832.18	1832.68	1829.69	1827.05	1824.67	1822.66	1821.27	1820.60	1820.87	1822.05
13	1818.76	1819.79	1821.49	1818.35	1815.22	1812.58	1810.74	1809.80	1809.63	1810.49
14	1805.18	1805.87	1807.26	1809.15	1805.26	1802.17	1799.78	1798.14	1797.67	1798.38
15	1791.33	1791.69	1792.55	1794.13	1795.09	1791.22	1788.05	1786.02	1785.19	1785.64
16	1777.46	1777.32	1777.68	1778.86	1781.22	1779.67	1775.94	1773.37	1771.92	1772.00
17	1763.34	1762.69	1762.53	1763.48	1765.12	1767.80	1763.35	1759.92	1758.16	1757.92
18	1749.14	1747.91	1747.33	1747.53	1748.83	1751.54	1750.05	1746.15	1743.77	1743.15
19	1734.80	1732.95	1731.90	1731.43	1732.25	1734.27	1736.53	1731.76	1728.71	1727.60
20	1720.36	1717.92	1716.07	1715.05	1715.22	1716.82	1720.18	1716.78	1712.99	1711.39
21	1705.76	1702.77	1700.15	1698.49	1697.88	1698.97	1701.72	1701.22	1696.70	1694.60
22	1691.08	1687.37	1684.00	1681.57	1680.34	1680.59	1682.82	1685.07	1679.85	1677.14
23	1675.20	1671.84	1667.75	1664.39	1662.44	1661.92	1663.44	1667.34	1662.34	1659.12
24	1654.69	1655.99	1651.32	1647.13	1644.12	1642.94	1643.73	1646.97	1644.36	1640.53
25	1634.07	1634.71	1634.52	1629.59	1625.76	1623.58	1623.60	1626.22	1626.03	1621.70
26	1613.33	1613.44	1614.71	1611.63	1606.97	1604.15	1603.19	1605.21	1607.22	1602.08
27	1592.55	1592.10	1592.72	1593.74	1588.05	1584.17	1582.48	1583.83	1587.87	1581.94
28	1571.69	1570.50	1570.53	1571.96	1569.09	1563.97	1561.65	1562.06	1566.29	1561.45
29	1550.76	1548.81	1548.04	1548.95	1549.68	1543.58	1540.23	1539.89	1543.48	1540.53
30	1529.78	1527.17	1525.68	1525.83	1527.96	1523.11	1518.50	1517.47	1520.50	1519.07
31	1508.84	1505.56	1503.14	1502.47	1503.85	1502.40	1496.79	1494.83	1496.96	1497.17
32	1487.76	1483.76	1480.53	1479.20	1479.69	1481.10	1474.75	1471.73	1473.18	1475.05
33	1466.63	1461.84	1457.95	1455.56	1455.25	1457.60	1452.42	1448.52	1449.20	1452.26
34	1444.19	1439.97	1435.31	1431.93	1430.68	1432.34	1429.98	1425.15	1424.75	1429.03
35	1419.07	1418.00	1412.48	1408.38	1406.03	1406.84	1407.53	1401.48	1399.96	1404.29
36	1394.10	1392.95	1389.78	1384.67	1381.42	1381.30	1384.73	1377.49	1375.19	1378.68
37	1369.09	1367.32	1366.90	1360.90	1357.01	1355.86	1358.44	1353.42	1350.16	1352.81
38	1343.92	1341.74	1340.56	1337.04	1332.19	1330.15	1331.75	1329.45	1324.85	1326.86
39	1318.86	1316.11	1314.36	1313.30	1307.54	1304.41	1305.08	1304.95	1299.59	1300.66
40	1293.82	1290.47	1288.17	1286.99	1282.91	1278.58	1278.54	1280.65	1274.12	1274.25
41	1268.84	1265.07	1262.00	1260.40	1258.12	1252.78	1251.64	1255.48	1248.41	1247.56
42	1243.99	1239.51	1235.73	1233.44	1233.23	1227.21	1224.74	1227.49	1222.71	1220.94
43	1219.34	1214.02	1209.75	1206.68	1205.55	1201.74	1197.98	1199.65	1196.86	1194.06

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44	1194.58	1188.77	1183.70	1180.02	1177.82	1175.86	1171.27	1171.90	1170.84	1166.93
45	1167.23	1163.74	1157.78	1153.40	1150.55	1150.07	1144.46	1143.99	1144.93	1140.13
46	1139.68	1137.73	1132.20	1126.80	1123.28	1122.19	1117.80	1116.08	1118.99	1112.98
47	1112.05	1109.78	1106.60	1100.57	1096.14	1094.26	1091.21	1088.39	1092.64	1085.66
48	1084.71	1081.86	1079.80	1074.23	1069.01	1066.26	1064.63	1060.52	1063.63	1058.49
49	1057.39	1054.08	1051.62	1048.14	1041.97	1038.41	1038.23	1033.10	1034.80	1031.26
50	1030.07	1026.47	1023.48	1021.88	1015.27	1010.68	1009.76	1005.67	1006.11	1004.02
51	1002.85	998.85	995.49	993.18	988.85	983.27	980.98	978.05	977.44	976.80
52	975.77	971.33	967.47	964.61	962.37	955.95	952.86	950.75	948.82	949.66
53	948.81	944.02	939.76	936.37	934.87	928.78	924.68	923.50	920.27	922.45
54	921.93	916.86	912.14	908.22	905.96	901.77	896.63	896.25	892.00	895.39
55	894.05	889.82	884.58	880.14	877.29	874.97	868.83	867.06	863.75	867.17
56	866.25	862.24	857.18	852.35	848.87	847.61	841.31	838.23	835.63	837.90
57	838.47	834.26	830.02	824.81	820.69	818.72	814.04	809.82	807.88	808.54
58	810.82	806.43	802.20	797.36	792.59	789.83	786.96	781.60	780.25	779.38
59	783.34	778.69	774.21	770.05	764.74	761.29	760.15	753.56	752.74	750.58
60	755.92	751.18	746.46	742.29	737.28	732.98	731.67	725.99	724.22	721.73
61	728.54	723.75	718.84	714.35	709.68	704.89	702.71	698.55	695.53	693.02
62	701.24	696.42	691.35	686.54	682.30	677.14	674.04	671.72	667.04	664.72
63	674.06	669.27	663.94	658.95	654.51	649.66	645.76	644.85	638.87	636.74
64	647.01	642.27	636.82	631.64	626.76	622.38	617.78	616.55	610.86	608.94
65	620.01	615.15	609.94	604.41	599.18	594.78	590.13	587.68	583.29	581.09
66	593.04	588.03	583.20	577.45	572.01	567.21	562.77	559.29	556.01	553.31
67	566.14	561.09	556.20	550.76	545.12	539.82	535.84	530.99	529.09	524.46
68	539.27	534.29	529.26	524.14	518.41	512.75	508.19	503.22	502.03	495.94
69	512.45	507.62	502.48	497.30	491.93	485.99	480.81	475.69	472.97	467.92
70	485.74	481.00	475.91	470.67	465.57	459.53	453.66	448.72	444.63	440.45
71	459.12	454.46	449.52	444.21	439.01	433.27	426.87	421.76	416.77	413.28
72	432.60	428.04	423.23	418.01	412.72	407.16	400.67	394.75	389.48	386.76
73	406.98	401.77	397.06	391.97	386.63	381.06	374.80	368.30	362.53	360.32
74	382.28	376.58	371.02	366.04	360.68	355.10	349.14	342.21	336.32	332.40
75	357.64	352.06	346.00	340.26	335.01	329.48	323.40	316.60	310.04	305.40
76	333.07	327.62	321.73	315.28	309.58	304.17	298.10	291.65	284.55	278.91
77	308.56	303.28	297.55	291.32	284.57	279.13	273.26	267.01	259.71	253.10
78	284.10	279.03	273.50	267.51	261.01	254.31	248.74	242.63	235.48	228.02
79	259.69	254.84	249.54	243.84	237.65	230.91	224.60	218.70	211.93	204.01
80	235.31	230.72	225.70	220.31	214.46	208.09	201.22	195.27	188.73	181.00
81	211.00	206.64	201.93	196.89	191.43	185.50	179.04	172.31	166.18	158.73
82	187.98	183.09	178.24	173.56	168.56	163.10	157.15	150.57	144.29	137.25
83	165.59	161.26	156.30	150.63	145.81	140.89	135.51	129.56	123.02	116.43
84	143.25	139.49	135.20	130.28	124.64	118.83	114.12	108.91	103.12	96.50
85	120.93	117.78	114.17	110.03	105.26	99.68	93.10	88.54	83.68	77.64
86	98.64	96.09	93.19	89.84	85.98	81.48	76.12	69.65	64.65	59.98
87	76.38	74.45	72.25	69.72	66.80	63.38	59.29	54.38	48.33	42.92
88	54.13	52.83	51.35	49.64	47.67	45.37	42.60	39.29	35.19	29.93
89	31.89	31.23	30.47	29.60	28.59	27.41	26.00	24.31	22.24	19.56
90	9.66	9.63	9.61	9.57	9.53	9.48	9.43	9.40	9.39	9.35

Vert. Angles **Horizontal Angles**

	<u>350</u>	<u>355</u>	<u>360</u>
0	1899.03	1899.03	1899.03
1	1897.22	1897.58	1897.96
2	1894.73	1895.43	1896.17
3	1891.36	1892.38	1893.49
4	1887.12	1888.45	1889.91

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-22G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

5	1882.26	1883.89	1885.69
6	1876.43	1878.31	1880.45
7	1869.68	1871.77	1874.22
8	1862.21	1864.53	1867.33
9	1853.87	1856.42	1859.55
10	1844.71	1847.45	1850.91
11	1834.67	1837.60	1841.37
12	1824.07	1827.10	1831.13
13	1812.51	1815.72	1820.08
14	1800.36	1803.71	1808.36
15	1787.40	1790.67	1795.51
16	1773.77	1777.21	1782.35
17	1759.47	1762.92	1768.28
18	1744.51	1747.95	1753.54
19	1728.66	1732.07	1737.85
20	1712.20	1715.61	1721.65
21	1695.15	1698.44	1704.62
22	1677.27	1680.62	1687.07
23	1658.82	1662.00	1668.58
24	1640.10	1643.23	1649.98
25	1620.70	1623.64	1630.53
26	1600.54	1603.25	1610.23
27	1580.15	1582.71	1589.91
28	1559.11	1561.33	1568.45
29	1537.55	1539.71	1547.06
30	1515.47	1517.53	1525.02
31	1493.24	1494.69	1502.04
32	1470.37	1471.45	1478.89
33	1446.74	1447.73	1455.33
34	1423.14	1423.82	1431.48
35	1399.03	1399.32	1407.04
36	1374.66	1374.70	1382.49
37	1350.04	1349.75	1357.46
38	1325.16	1324.34	1332.11
39	1299.89	1298.66	1306.41
40	1274.30	1272.73	1280.41
41	1248.71	1246.50	1253.98
42	1222.76	1219.88	1227.26
43	1196.38	1193.34	1200.76
44	1170.36	1166.41	1173.55
45	1143.76	1139.25	1146.41
46	1116.21	1111.93	1118.92
47	1088.10	1084.62	1091.52
48	1060.04	1056.88	1063.48
49	1031.52	1029.09	1035.70
50	1002.98	1001.30	1007.68
51	974.80	973.43	979.46
52	946.45	945.43	951.10
53	918.13	917.45	922.80
54	889.93	889.24	894.44
55	861.50	860.95	865.87
56	833.10	832.89	837.58
57	805.09	804.62	808.70
58	776.86	776.34	780.22
59	748.67	747.96	751.87
60	720.71	720.05	723.35

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-22G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

61	693.17	691.92	694.58
62	665.40	663.67	666.08
63	637.70	635.85	637.49
64	610.46	607.66	609.09
65	582.15	578.60	580.78
66	552.57	549.48	551.73
67	523.50	520.89	522.95
68	494.44	492.09	494.39
69	465.79	463.93	465.99
70	437.56	435.87	437.82
71	409.75	407.96	409.79
72	382.45	380.41	382.00
73	355.42	353.51	354.45
74	328.01	326.69	327.15
75	301.11	300.25	299.66
76	274.53	273.91	270.67
77	248.71	246.68	241.68
78	223.83	218.88	213.26
79	198.35	192.02	185.62
80	173.18	166.18	158.01
81	149.32	141.39	131.50
82	126.92	117.67	105.79
83	106.11	95.28	80.87
84	86.76	74.96	56.96
85	68.65	55.88	35.66
86	51.87	40.54	20.43
87	37.44	29.36	11.73
88	24.72	20.06	7.23
89	16.29	12.88	4.55
90	9.33	9.23	2.74

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-22G-840K-5000L.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	684.33	N.A.	13.50
0-30	1437.07	N.A.	28.30
0-40	2323.18	N.A.	45.80
0-60	4010.18	N.A.	79.00
0-80	4962.81	N.A.	97.80
0-90	5075.46	N.A.	100.00
10-90	4897.04	N.A.	96.50
20-40	1638.85	N.A.	32.30
20-50	2534.47	N.A.	49.90
40-70	2285.53	N.A.	45.00
60-80	952.63	N.A.	18.80
70-80	354.10	N.A.	7.00
80-90	112.65	N.A.	2.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	5075.46	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	178.42
10-20	505.91
20-30	752.74
30-40	886.11
40-50	895.63
50-60	791.37
60-70	598.53
70-80	354.10
80-90	112.65
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-22G-840K-5000L.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

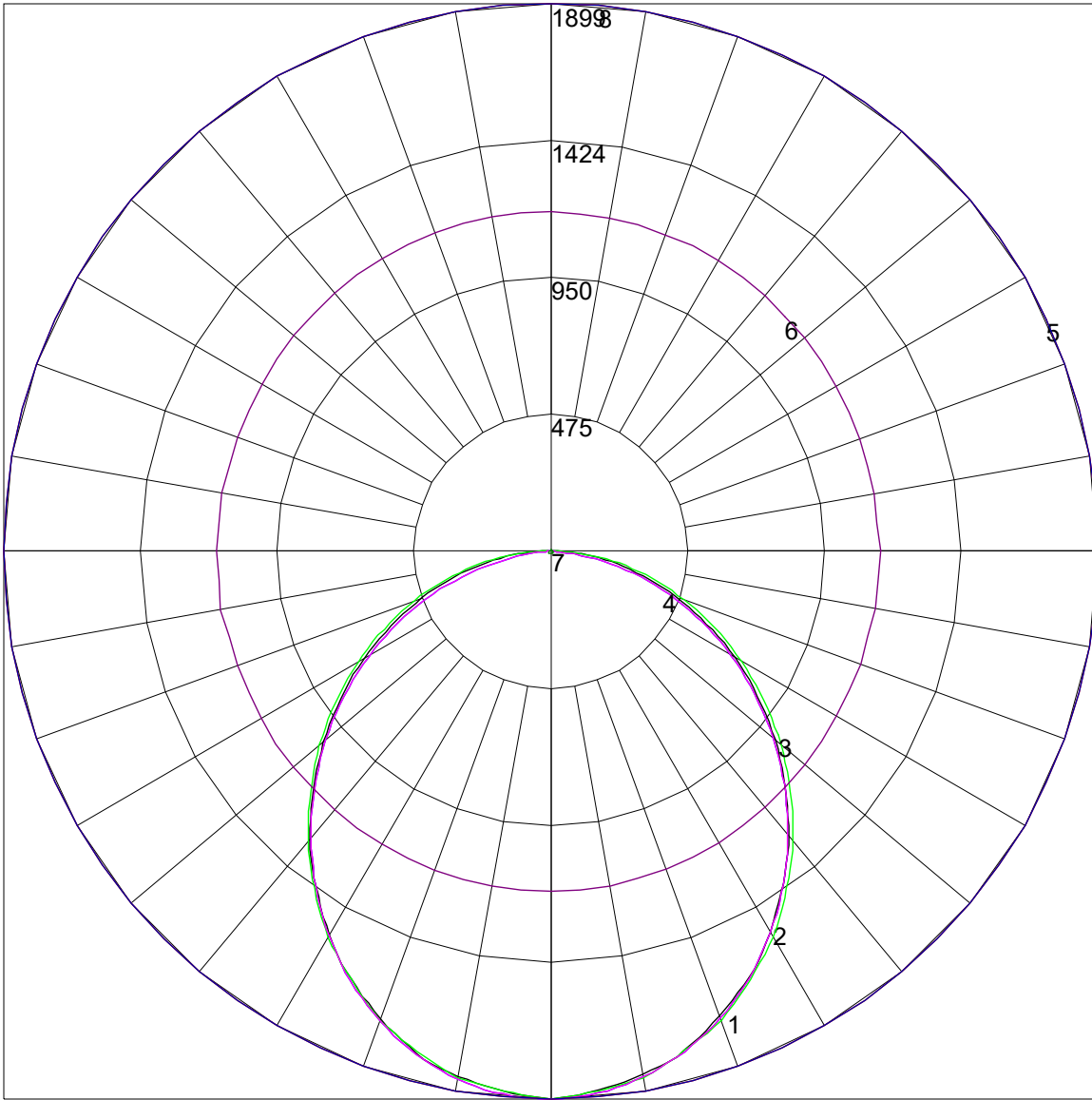
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-22G-840K-5000L.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	16.8	18.4	17.2	18.8	19.1	17.1	18.8	17.5	19.1	19.4
	3H	18.5	20.0	18.9	20.3	20.7	19.0	20.5	19.4	20.8	21.2
	4H	19.1	20.5	19.5	20.9	21.2	19.8	21.2	20.2	21.5	21.9
	6H	19.5	20.8	19.9	21.2	21.5	20.4	21.7	20.8	22.1	22.5
	8H	19.6	20.8	20.0	21.2	21.6	20.7	21.9	21.1	22.3	22.7
	12H	19.6	20.8	20.0	21.2	21.6	20.9	22.0	21.3	22.4	22.9
4H	2H	17.5	18.9	17.9	19.2	19.6	17.7	19.1	18.1	19.5	19.8
	3H	19.4	20.6	19.8	21.0	21.4	19.9	21.0	20.3	21.4	21.8
	4H	20.1	21.2	20.6	21.6	22.1	20.8	21.8	21.2	22.2	22.7
	6H	20.7	21.6	21.1	22.0	22.5	21.6	22.5	22.0	22.9	23.4
	8H	20.8	21.7	21.2	22.1	22.6	21.9	22.7	22.3	23.2	23.6
	12H	20.9	21.6	21.3	22.1	22.6	22.1	22.9	22.6	23.4	23.9
8H	4H	20.5	21.4	21.0	21.8	22.3	21.1	21.9	21.5	22.4	22.8
	6H	21.2	21.9	21.7	22.4	22.9	22.0	22.7	22.5	23.2	23.7
	8H	21.4	22.1	21.9	22.6	23.1	22.4	23.1	22.9	23.6	24.1
	12H	21.6	22.1	22.1	22.6	23.2	22.8	23.4	23.3	23.9	24.4
12H	4H	20.6	21.4	21.1	21.8	22.3	21.1	21.9	21.6	22.4	22.8
	6H	21.3	22.0	21.8	22.4	23.0	22.1	22.7	22.6	23.2	23.7
	8H	21.6	22.2	22.1	22.7	23.2	22.5	23.1	23.0	23.6	24.2

Maximum UGR = 24.4

POLAR GRAPH



- Maximum Candela = 1899.03 Located At Horizontal Angle = 0, Vertical Angle = 0
- # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 - # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
 - # 3 - Vertical Plane Through Horizontal Angles (90 - 270)
 - # 4 - Vertical Plane Through Horizontal Angles (0 - 180)
 - # 5 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)
 - # 6 - Horizontal Cone Through Vertical Angle (45)
 - # 7 - Horizontal Cone Through Vertical Angle (90)
 - # 8 - Horizontal Cone Through Vertical Angle (0)