



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] G001792.001
 [TESTLAB] V-LABS
 [ISSUEDATE] 07-22-2020
 [MANUFAC] MERCURY LIGHTING
 [MORE]FAIRFIELD, NEW JERSEY
 [LUMCAT] LRW2X4-840K5000LUNI
 [LUMINAIRE] 2x4 RECESSED T-BAR LED LUMINAIRE
 [MORE]HIGH REFLECTANCE WHITE INTERIOR
 [MORE]NO DOOR FRAME-ONE PIECE WHITE TRANSLUCENT POLYCARBONATE LENS
 [_WATTAGE] 42
 [_LUMENS]4902
 [_EFFICACY]117

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.97 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	2132	2178	2225
55	1996	2071	2134
65	1837	1960	2046
75	1620	1859	2002
85	1006	2014	2219

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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	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43
1	1791.70	1791.41	1791.14	1790.87	1790.62	1790.38	1790.16	1789.95	1789.77	1789.59
2	1789.83	1789.28	1788.76	1788.28	1787.83	1787.43	1787.07	1786.75	1786.48	1786.29
3	1787.91	1787.08	1786.30	1785.55	1784.87	1784.24	1783.68	1783.22	1782.94	1782.76
4	1784.11	1783.05	1782.11	1781.30	1780.61	1780.05	1779.65	1779.43	1779.35	1779.04
5	1780.41	1779.08	1777.92	1776.91	1776.08	1775.43	1774.94	1774.65	1774.50	1774.50
6	1775.45	1773.87	1772.54	1771.46	1770.66	1770.12	1769.81	1769.67	1769.55	1769.70
7	1769.82	1768.01	1766.54	1765.40	1764.61	1764.07	1763.82	1763.87	1764.21	1764.69
8	1763.57	1761.57	1759.97	1758.80	1758.05	1757.53	1757.37	1757.68	1758.17	1759.02
9	1756.60	1754.33	1752.58	1751.38	1750.72	1750.49	1750.70	1751.18	1751.85	1752.99
10	1748.44	1746.05	1744.37	1743.35	1742.83	1742.64	1743.16	1744.18	1745.48	1746.73
11	1739.91	1737.23	1735.34	1734.21	1733.79	1734.16	1735.22	1736.40	1738.35	1740.50
12	1730.42	1727.59	1725.69	1724.67	1724.41	1724.98	1726.28	1728.35	1730.62	1733.51
13	1720.77	1717.65	1715.53	1714.43	1714.38	1715.29	1717.02	1719.47	1722.74	1725.95
14	1709.81	1706.55	1704.51	1703.68	1704.02	1705.19	1707.39	1710.21	1714.00	1718.41
15	1698.32	1694.89	1692.86	1692.22	1692.81	1694.56	1697.34	1700.86	1704.93	1704.82
16	1685.85	1682.29	1680.31	1679.79	1680.95	1683.26	1686.69	1691.02	1692.92	1691.19
17	1673.08	1669.32	1667.31	1667.00	1668.31	1670.97	1675.44	1680.67	1678.72	1677.49
18	1659.41	1655.51	1653.67	1653.77	1655.39	1658.71	1663.11	1665.90	1664.21	1663.43
19	1645.39	1641.35	1639.42	1639.51	1641.77	1645.94	1651.32	1649.80	1649.18	1649.17
20	1630.33	1626.04	1624.10	1624.79	1627.76	1632.17	1636.83	1634.42	1633.71	1634.50
21	1614.65	1610.37	1608.72	1609.58	1612.58	1618.65	1619.75	1618.36	1618.21	1619.57
22	1598.80	1594.34	1592.87	1594.05	1597.86	1603.52	1603.05	1601.69	1602.33	1604.09
23	1582.15	1577.58	1576.16	1577.61	1582.26	1588.11	1584.99	1584.92	1586.52	1589.08
24	1564.87	1560.16	1558.82	1560.83	1565.92	1569.64	1567.72	1567.56	1569.71	1573.38
25	1546.86	1542.10	1541.00	1543.52	1549.17	1550.72	1549.59	1550.34	1553.31	1557.90
26	1528.46	1523.64	1522.71	1525.61	1532.05	1531.48	1530.68	1532.72	1536.33	1541.57
27	1509.53	1504.58	1503.93	1507.46	1514.48	1511.98	1511.95	1514.67	1519.51	1525.57
28	1490.11	1484.95	1484.49	1488.45	1494.76	1492.08	1493.00	1496.20	1502.19	1505.88
29	1469.69	1464.68	1464.60	1468.80	1473.65	1472.10	1473.33	1477.72	1484.77	1484.72
30	1449.28	1444.20	1444.32	1449.21	1451.95	1451.32	1453.98	1459.29	1464.55	1463.73
31	1428.61	1423.43	1423.73	1429.07	1430.56	1430.18	1433.76	1440.15	1442.69	1442.46
32	1407.02	1401.91	1402.48	1408.90	1408.71	1409.17	1413.67	1421.49	1420.75	1420.85
33	1384.98	1379.85	1380.98	1387.90	1386.78	1387.76	1393.16	1399.41	1398.02	1399.16
34	1362.92	1357.70	1359.01	1366.60	1364.21	1366.38	1372.48	1376.29	1375.70	1377.57
35	1339.94	1334.93	1336.86	1343.57	1341.48	1344.55	1351.94	1352.71	1353.32	1356.14
36	1317.02	1311.94	1314.02	1319.93	1318.42	1322.43	1331.04	1329.08	1330.42	1334.21
37	1293.71	1288.79	1291.34	1295.83	1295.33	1300.46	1306.81	1305.35	1307.80	1312.44
38	1269.88	1265.02	1268.07	1271.85	1271.74	1277.94	1281.86	1281.76	1284.96	1290.65
39	1246.00	1241.02	1244.32	1247.40	1248.33	1255.47	1257.43	1258.01	1262.18	1268.79
40	1222.12	1216.94	1220.69	1222.48	1224.53	1232.69	1232.34	1234.16	1239.22	1244.55
41	1197.03	1192.44	1196.58	1197.84	1200.63	1209.32	1207.49	1210.11	1216.39	1219.69
42	1172.48	1167.46	1172.28	1172.78	1176.74	1183.13	1182.44	1186.43	1193.65	1194.63
43	1147.32	1142.53	1147.54	1147.70	1152.62	1157.20	1157.49	1162.41	1167.77	1169.77
44	1121.87	1117.21	1123.13	1122.36	1128.41	1131.35	1132.62	1138.70	1142.17	1144.92
45	1096.14	1091.79	1098.10	1097.09	1104.06	1105.26	1107.55	1114.87	1116.48	1119.99
46	1070.95	1066.08	1072.19	1071.66	1079.94	1079.14	1082.79	1088.72	1091.04	1095.58
47	1044.59	1040.47	1045.74	1045.87	1054.82	1053.06	1057.97	1062.58	1065.56	1071.09
48	1018.42	1014.38	1019.32	1020.28	1027.78	1027.21	1032.88	1036.29	1040.28	1046.63
49	992.29	988.12	992.67	994.86	1000.44	1001.33	1008.28	1010.16	1015.28	1022.29
50	966.10	962.11	965.77	969.20	973.57	975.41	981.57	984.19	990.15	997.76
51	939.26	935.66	939.20	943.44	946.60	949.57	954.64	958.50	965.32	970.76
52	912.95	909.32	912.42	917.92	919.78	923.86	928.14	932.85	940.53	943.87
53	886.23	882.90	885.70	892.35	892.80	898.34	901.54	907.50	914.61	916.96

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CANDELA TABULATION - (Cont.)

54	859.43	856.45	859.14	866.61	866.18	872.63	875.22	882.02	887.34	890.45
55	832.56	829.67	832.41	840.36	839.55	845.36	849.03	857.02	860.22	864.06
56	805.88	803.18	805.59	812.66	813.06	818.09	823.20	831.16	833.42	837.68
57	778.99	776.44	779.01	784.91	786.92	791.33	797.42	803.77	806.89	811.65
58	751.94	749.73	752.39	757.37	760.78	764.73	772.07	776.53	780.36	785.83
59	725.36	723.16	725.84	730.07	735.01	738.21	747.02	749.53	754.06	760.07
60	698.28	696.61	699.57	702.89	708.03	712.14	719.88	722.58	727.92	733.51
61	671.19	670.16	673.47	675.87	680.79	686.43	692.50	696.09	702.10	706.88
62	644.34	643.53	647.42	649.34	653.95	660.99	665.20	669.80	676.13	680.50
63	617.77	617.36	621.27	622.85	627.16	635.76	638.46	643.80	649.34	654.19
64	590.73	590.68	595.68	596.64	600.76	608.71	611.70	617.98	622.93	628.17
65	564.46	563.67	569.20	570.34	574.77	581.32	585.31	591.53	596.76	602.34
66	537.98	536.67	541.74	544.34	549.00	554.27	559.31	565.16	570.84	576.73
67	511.30	510.37	514.50	517.18	523.66	527.48	533.74	539.04	545.12	551.33
68	484.65	483.64	487.34	490.09	498.05	501.07	507.63	513.43	519.69	525.83
69	458.42	457.22	460.30	463.58	470.53	475.10	481.57	487.83	494.50	500.11
70	432.42	431.12	433.21	437.36	443.64	449.49	455.74	462.61	469.32	474.66
71	406.15	405.08	406.63	411.54	417.11	423.78	430.37	437.69	443.87	449.46
72	380.52	379.01	380.33	385.84	390.93	398.12	405.33	412.79	418.77	424.35
73	355.08	353.14	354.18	360.62	365.50	372.84	380.75	387.78	393.91	399.40
74	329.73	327.26	327.42	334.11	340.33	348.15	356.37	363.21	369.18	374.59
75	304.84	301.75	301.56	308.37	315.47	323.84	331.87	338.71	344.67	349.96
76	279.77	276.17	276.39	283.40	291.43	300.04	307.73	314.53	320.36	326.21
77	254.87	250.23	252.05	259.09	267.99	276.47	283.96	290.70	296.52	303.48
78	229.72	223.78	228.41	235.49	245.06	253.21	260.61	267.05	274.18	280.83
79	205.18	197.99	204.40	212.50	222.58	230.39	237.66	244.85	252.02	258.33
80	180.14	172.98	180.84	190.58	200.14	208.05	215.48	223.25	230.06	235.96
81	155.87	148.77	158.19	169.31	178.41	186.15	194.44	201.85	208.24	213.71
82	132.00	125.88	136.90	148.64	157.33	165.54	173.70	180.63	186.56	191.58
83	108.56	104.57	116.91	128.49	136.90	145.62	153.22	159.60	165.01	169.63
84	85.81	84.83	98.29	109.13	117.95	126.01	132.95	138.75	143.98	148.59
85	63.77	66.08	80.44	90.77	99.39	106.69	112.95	118.64	123.51	127.63
86	42.52	49.85	63.57	73.56	81.22	87.83	93.83	98.84	103.12	106.74
87	22.39	36.58	48.22	56.89	63.72	69.71	74.84	79.13	82.82	85.89
88	10.69	24.41	34.02	41.14	46.89	51.74	55.95	59.51	62.56	65.09
89	6.38	14.21	20.85	26.02	30.23	33.89	37.14	39.94	42.34	44.32
90	3.68	5.87	8.16	11.05	13.67	16.10	18.37	20.41	22.15	23.58

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	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43
1	1789.45	1789.33	1789.23	1789.16	1789.12	1789.10	1789.10	1789.14	1789.20	1789.21
2	1786.16	1786.09	1786.06	1785.92	1785.82	1785.78	1785.79	1785.85	1785.97	1786.02
3	1782.60	1782.44	1782.35	1782.38	1782.49	1782.45	1782.49	1782.57	1782.73	1782.83
4	1778.70	1778.64	1778.76	1778.76	1778.87	1779.07	1779.16	1779.29	1779.49	1779.67
5	1774.75	1774.89	1774.75	1775.08	1775.31	1775.55	1775.81	1776.02	1776.26	1776.52
6	1770.02	1770.44	1771.12	1771.14	1771.70	1772.08	1772.43	1772.74	1773.02	1773.37
7	1765.07	1765.86	1766.58	1767.49	1767.82	1768.56	1769.01	1769.44	1769.79	1770.15
8	1760.05	1760.89	1762.14	1763.20	1764.11	1764.98	1765.65	1766.12	1766.55	1766.93
9	1754.37	1755.97	1757.24	1758.91	1760.34	1761.22	1762.30	1762.80	1763.31	1763.69
10	1748.48	1750.49	1752.60	1754.39	1756.23	1757.50	1758.85	1759.46	1760.08	1760.45
11	1742.41	1744.77	1747.51	1749.68	1749.50	1749.15	1749.08	1748.91	1749.31	1749.93
12	1736.46	1738.98	1738.83	1738.49	1738.19	1738.19	1738.15	1738.09	1738.54	1739.14
13	1729.61	1728.15	1726.97	1726.90	1726.64	1727.07	1727.16	1727.31	1727.78	1728.35
14	1716.71	1716.04	1715.10	1714.96	1715.33	1715.94	1716.22	1716.54	1717.02	1717.54

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15	1703.89	1703.45	1703.21	1703.12	1704.01	1704.68	1705.32	1705.80	1706.25	1706.74
16	1690.70	1690.58	1691.06	1691.39	1692.50	1693.38	1694.39	1695.05	1695.48	1695.94
17	1677.24	1677.78	1678.71	1679.60	1680.72	1682.05	1683.45	1684.33	1684.72	1685.14
18	1663.43	1664.67	1666.08	1667.54	1668.89	1670.81	1672.48	1673.53	1673.96	1674.33
19	1649.92	1651.42	1653.49	1655.50	1657.35	1659.60	1661.49	1662.66	1663.18	1663.51
20	1635.97	1637.95	1640.70	1643.41	1645.84	1648.36	1650.52	1651.79	1652.42	1652.68
21	1621.86	1624.52	1627.79	1631.18	1634.31	1634.91	1635.12	1635.25	1635.59	1636.21
22	1607.38	1611.07	1614.87	1618.15	1617.42	1617.52	1617.90	1618.28	1618.76	1619.31
23	1592.76	1597.21	1600.62	1600.17	1599.73	1599.99	1600.69	1601.33	1601.93	1602.41
24	1578.05	1583.27	1581.99	1581.88	1582.14	1582.58	1583.54	1584.39	1585.10	1585.51
25	1563.04	1563.72	1563.40	1563.67	1564.43	1565.24	1566.45	1567.46	1568.27	1568.60
26	1545.20	1544.36	1544.62	1545.40	1546.67	1547.84	1549.36	1550.52	1551.43	1551.68
27	1525.03	1524.96	1525.79	1527.08	1528.98	1530.46	1532.30	1533.56	1534.61	1534.76
28	1505.02	1505.13	1506.98	1508.65	1511.14	1513.07	1515.20	1516.60	1517.77	1517.84
29	1484.44	1485.68	1487.78	1490.32	1493.22	1495.65	1498.11	1499.62	1500.94	1500.91
30	1464.08	1465.96	1468.76	1471.86	1475.29	1478.31	1481.02	1482.63	1484.11	1483.99
31	1443.53	1446.15	1449.69	1453.33	1457.34	1460.28	1460.92	1461.46	1462.49	1462.75
32	1422.86	1426.28	1430.36	1435.00	1437.44	1438.30	1439.07	1439.85	1440.88	1441.06
33	1402.32	1406.48	1411.19	1414.57	1415.11	1416.27	1417.26	1418.25	1419.26	1419.37
34	1381.67	1386.59	1390.90	1391.89	1392.83	1394.20	1395.55	1396.65	1397.65	1397.69
35	1360.79	1366.50	1367.83	1369.11	1370.62	1372.22	1373.88	1375.06	1376.03	1376.01
36	1339.86	1343.38	1344.63	1346.50	1348.45	1350.36	1352.20	1353.47	1354.41	1354.33
37	1318.98	1319.76	1321.36	1323.83	1326.21	1328.49	1330.53	1331.89	1332.79	1332.65
38	1294.60	1296.19	1298.45	1301.14	1303.95	1306.52	1308.73	1310.29	1311.18	1310.92
39	1270.43	1272.58	1275.43	1278.47	1281.72	1284.57	1286.95	1288.70	1289.57	1289.21
40	1246.10	1248.87	1252.34	1255.95	1259.63	1262.68	1265.23	1267.12	1267.95	1267.50
41	1221.81	1225.31	1229.28	1233.51	1237.62	1240.76	1241.74	1242.75	1243.24	1243.13
42	1197.56	1201.83	1206.39	1211.04	1214.67	1215.80	1216.90	1218.04	1218.53	1218.43
43	1173.42	1178.25	1183.53	1187.89	1189.33	1190.73	1192.07	1193.34	1193.83	1193.74
44	1149.48	1154.89	1160.85	1162.30	1164.08	1165.68	1167.26	1168.63	1169.13	1169.04
45	1125.42	1131.65	1135.16	1136.76	1138.90	1140.68	1142.48	1143.91	1144.42	1144.32
46	1101.67	1107.42	1109.11	1111.30	1113.71	1115.69	1117.70	1119.16	1119.71	1119.60
47	1077.83	1081.05	1083.28	1085.94	1088.56	1090.75	1092.91	1094.41	1095.01	1094.88
48	1052.86	1054.83	1057.56	1060.51	1063.36	1065.86	1068.12	1069.67	1070.31	1070.17
49	1026.13	1028.71	1031.89	1035.13	1038.21	1041.02	1043.33	1044.93	1045.60	1045.47
50	999.79	1002.68	1006.26	1009.80	1013.13	1016.18	1018.57	1020.19	1020.89	1020.78
51	973.15	976.80	980.71	984.59	988.11	991.28	993.04	994.19	994.73	994.73
52	946.90	950.90	955.25	959.50	962.77	965.03	966.89	968.03	968.57	968.53
53	920.81	925.15	929.86	934.06	936.44	938.82	940.75	941.89	942.41	942.33
54	894.75	899.52	904.61	907.64	910.16	912.64	914.56	915.78	916.25	916.12
55	868.85	874.03	878.05	881.14	883.95	886.48	888.38	889.66	890.09	889.90
56	843.07	848.04	851.53	854.76	857.80	860.35	862.20	863.55	863.93	863.68
57	817.37	821.41	825.12	828.48	831.60	834.21	836.04	837.45	837.77	837.46
58	790.96	794.88	798.82	802.27	805.42	808.07	809.90	811.34	811.61	811.24
59	764.43	768.49	772.60	776.16	779.31	781.96	783.79	785.24	785.45	785.02
60	737.89	742.22	746.48	750.12	753.31	755.88	757.74	759.14	759.28	758.80
61	711.51	716.10	720.44	724.11	727.39	729.82	731.70	733.03	733.19	732.68
62	685.30	690.05	694.49	698.18	701.40	703.73	705.66	706.93	707.10	706.58
63	659.31	664.31	668.66	672.17	675.30	677.67	679.61	680.82	681.00	680.49
64	633.46	638.76	642.77	646.12	649.24	651.63	653.58	654.72	654.91	654.40
65	607.83	612.77	616.83	620.15	623.23	625.60	627.49	628.60	628.81	628.33
66	582.40	586.70	590.84	594.33	597.26	599.60	601.41	602.49	602.72	602.25
67	556.53	560.91	564.93	568.53	571.32	573.63	575.34	576.38	576.62	576.18
68	530.75	535.19	539.15	542.69	545.41	547.69	549.28	550.27	550.53	550.11
69	505.15	509.54	513.48	516.85	519.52	521.77	523.24	524.18	524.44	524.04
70	479.72	484.03	487.86	491.09	493.67	495.83	497.22	498.08	498.34	497.97

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

71	454.41	458.66	462.36	465.42	467.85	470.56	472.49	473.68	474.03	473.50
72	429.20	433.35	436.93	440.27	443.63	446.42	448.26	449.41	449.72	449.15
73	404.15	408.16	412.40	416.47	419.66	422.30	424.04	425.13	425.41	424.81
74	379.23	384.06	388.75	392.70	395.72	398.20	399.84	400.86	401.10	400.47
75	355.37	360.67	365.16	368.94	371.81	374.12	375.64	376.58	376.79	376.13
76	332.27	337.35	341.64	345.22	347.92	350.05	351.44	352.31	352.47	351.79
77	309.25	314.12	318.19	321.54	324.06	326.00	327.27	328.04	328.16	327.46
78	286.36	290.98	294.80	297.92	300.22	301.95	303.10	303.76	303.86	303.13
79	263.57	267.93	271.47	274.34	276.38	277.93	278.93	279.50	279.55	278.80
80	240.86	244.93	248.19	250.79	252.57	253.92	254.78	255.22	255.23	254.47
81	218.25	221.99	224.94	227.37	229.32	230.83	231.83	232.33	232.32	231.49
82	195.70	199.31	202.49	205.07	206.86	208.22	209.11	209.49	209.41	208.57
83	173.92	177.52	180.43	182.79	184.41	185.62	186.38	186.65	186.50	185.64
84	152.50	155.76	158.40	160.54	161.98	163.03	163.66	163.82	163.58	162.72
85	131.14	134.04	136.40	138.29	139.56	140.44	140.94	140.99	140.67	139.79
86	109.81	112.36	114.42	116.05	117.14	117.85	118.21	118.16	117.76	116.87
87	88.53	90.71	92.46	93.83	94.73	95.27	95.49	95.33	94.84	93.94
88	67.27	69.06	70.51	71.62	72.33	72.69	72.77	72.50	71.93	71.02
89	46.03	47.45	48.57	49.41	49.92	50.11	50.05	49.67	49.02	48.09
90	24.81	25.83	26.63	27.21	27.52	27.54	27.32	26.84	26.11	25.16

Vert. Horizontal Angles

	100	105	110	115	120	125	130	135	140	145
0	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43
1	1789.25	1789.32	1789.41	1789.52	1789.65	1789.79	1789.94	1790.10	1790.29	1790.50
2	1786.11	1786.26	1786.37	1786.53	1786.74	1786.97	1787.25	1787.57	1787.93	1788.30
3	1783.00	1783.08	1783.24	1783.45	1783.72	1784.02	1784.39	1784.69	1785.01	1785.39
4	1779.79	1779.89	1780.05	1780.28	1780.58	1780.68	1780.87	1781.12	1781.48	1782.02
5	1776.56	1776.66	1776.81	1776.95	1776.95	1776.97	1777.20	1777.56	1777.75	1778.10
6	1773.33	1773.40	1773.50	1773.33	1773.18	1773.32	1773.24	1773.28	1773.47	1773.77
7	1770.07	1770.10	1769.93	1769.58	1769.52	1769.16	1768.97	1768.85	1768.40	1768.56
8	1766.81	1766.74	1766.27	1765.92	1765.39	1764.88	1764.28	1763.61	1763.62	1763.34
9	1763.53	1763.24	1762.59	1761.98	1761.19	1760.24	1759.33	1758.65	1757.71	1757.06
10	1760.22	1759.71	1758.95	1757.92	1756.88	1755.39	1754.25	1752.73	1751.51	1750.60
11	1750.59	1751.30	1752.45	1753.80	1751.88	1750.58	1748.48	1746.63	1745.22	1743.67
12	1739.77	1740.35	1741.36	1742.65	1744.43	1745.06	1742.69	1740.49	1738.08	1736.20
13	1728.91	1729.41	1730.20	1730.94	1732.57	1734.26	1736.38	1733.50	1730.75	1728.11
14	1718.06	1718.40	1718.92	1719.79	1720.61	1721.98	1723.91	1726.44	1722.84	1720.04
15	1707.15	1707.28	1707.51	1708.12	1708.80	1709.86	1711.24	1713.23	1715.00	1711.00
16	1696.15	1696.14	1695.93	1696.20	1696.51	1697.12	1698.21	1700.35	1702.96	1701.63
17	1685.12	1684.91	1684.56	1684.29	1684.30	1684.43	1685.11	1686.69	1688.85	1691.66
18	1674.10	1673.62	1673.11	1672.46	1671.68	1671.31	1671.89	1672.63	1674.46	1677.27
19	1663.10	1662.20	1661.32	1660.24	1659.19	1658.20	1658.07	1658.46	1659.55	1662.23
20	1652.09	1650.78	1649.50	1648.03	1646.33	1645.10	1644.02	1643.66	1644.37	1646.62
21	1636.79	1637.37	1637.69	1635.62	1633.29	1631.56	1629.98	1628.73	1629.26	1630.21
22	1619.77	1620.22	1621.31	1622.52	1620.31	1617.76	1615.41	1613.69	1613.05	1614.12
23	1602.77	1603.06	1603.83	1604.92	1606.29	1603.87	1600.56	1598.58	1596.93	1597.24
24	1585.75	1585.90	1586.29	1586.69	1587.92	1589.90	1585.77	1582.53	1580.75	1580.17
25	1568.65	1568.53	1568.62	1568.62	1569.31	1570.59	1570.90	1566.59	1563.70	1562.43
26	1551.57	1551.17	1550.90	1550.54	1550.68	1551.18	1552.99	1550.90	1546.77	1544.33
27	1534.48	1533.83	1533.10	1532.41	1532.03	1532.01	1532.73	1534.08	1529.47	1526.54
28	1517.39	1516.52	1515.41	1514.28	1513.42	1512.74	1512.89	1514.38	1511.75	1507.92
29	1500.32	1499.19	1497.72	1495.97	1494.47	1493.28	1492.91	1493.48	1494.34	1489.30
30	1483.28	1481.88	1479.98	1477.68	1475.49	1473.51	1472.39	1472.52	1474.23	1470.28
31	1463.20	1463.95	1462.24	1459.41	1456.59	1453.88	1452.05	1451.26	1452.44	1451.22

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

32	1441.30	1441.91	1442.44	1440.98	1437.74	1434.32	1431.67	1430.40	1430.51	1431.91
33	1419.44	1419.77	1419.86	1420.41	1418.71	1414.57	1411.07	1408.69	1408.04	1410.04
34	1397.63	1397.60	1397.32	1397.56	1398.11	1394.76	1390.61	1387.29	1386.10	1386.50
35	1375.85	1375.47	1374.83	1374.64	1374.58	1374.98	1369.71	1365.92	1363.60	1362.96
36	1354.08	1353.27	1352.31	1351.65	1351.17	1351.72	1349.27	1344.16	1340.89	1339.70
37	1332.32	1331.11	1329.70	1328.66	1327.75	1327.64	1328.43	1322.85	1318.06	1316.32
38	1310.40	1308.90	1307.22	1305.72	1304.16	1303.49	1303.67	1301.09	1295.61	1292.63
39	1288.51	1286.69	1284.88	1282.93	1280.74	1279.41	1279.00	1279.48	1272.82	1268.76
40	1266.63	1264.54	1262.41	1259.84	1257.40	1255.17	1254.16	1254.50	1250.26	1245.12
41	1243.06	1242.46	1239.91	1236.76	1233.98	1231.30	1229.60	1229.02	1227.35	1221.32
42	1218.22	1217.60	1216.76	1213.98	1210.38	1207.24	1204.84	1203.69	1204.50	1197.54
43	1193.40	1192.54	1191.49	1190.44	1187.15	1183.21	1180.10	1178.09	1178.35	1173.85
44	1168.60	1167.48	1166.28	1164.79	1163.77	1159.15	1155.27	1152.65	1151.89	1150.08
45	1143.75	1142.47	1141.10	1139.32	1138.06	1135.23	1130.69	1127.04	1125.56	1126.33
46	1118.84	1117.49	1115.83	1113.80	1112.16	1110.59	1106.18	1101.88	1099.52	1099.70
47	1093.96	1092.52	1090.62	1088.30	1086.32	1084.28	1081.59	1076.64	1073.35	1072.76
48	1069.09	1067.57	1065.51	1063.12	1060.61	1058.23	1056.51	1051.50	1047.34	1045.91
49	1044.29	1042.61	1040.48	1037.96	1034.94	1032.28	1029.98	1026.32	1021.42	1018.92
50	1019.60	1017.67	1015.43	1012.72	1009.29	1006.13	1003.20	1001.00	995.68	992.14
51	994.06	992.78	990.37	987.42	983.74	979.98	976.66	974.11	969.92	965.32
52	967.82	966.43	964.96	962.16	958.26	954.28	950.46	947.26	944.24	938.81
53	941.56	940.08	938.39	936.47	932.87	928.50	924.28	920.57	917.92	912.59
54	915.23	913.66	911.83	909.59	907.58	902.84	898.29	893.91	890.72	886.35
55	888.90	887.25	885.25	882.95	880.65	877.56	872.41	867.55	863.60	860.28
56	862.62	860.88	858.76	856.34	853.80	851.26	846.61	841.21	836.60	833.86
57	836.39	834.56	832.31	829.72	826.93	824.20	820.99	815.04	809.80	806.04
58	810.19	808.26	805.88	803.18	800.20	797.22	794.13	789.12	783.34	778.73
59	783.95	781.97	779.45	776.72	773.59	770.21	766.99	763.46	757.05	751.84
60	757.68	755.69	753.08	750.36	747.01	743.43	739.93	736.61	730.98	724.89
61	731.45	729.41	726.76	723.94	720.50	716.77	712.98	709.32	705.08	698.18
62	705.29	703.28	700.58	697.56	694.06	690.15	686.17	682.22	678.70	671.82
63	679.14	677.16	674.52	671.35	667.74	663.72	659.59	655.20	651.31	645.81
64	653.01	651.05	648.49	645.27	641.52	637.43	633.03	628.49	624.10	620.03
65	626.92	624.98	622.45	619.24	615.43	611.21	606.64	601.90	597.09	593.13
66	600.85	598.92	596.41	593.25	589.46	585.22	580.53	575.49	570.58	565.96
67	574.79	572.90	570.41	567.36	563.58	559.40	554.55	549.25	544.05	539.02
68	548.74	546.88	544.47	541.50	537.80	533.60	528.73	523.25	517.80	512.30
69	522.70	520.89	518.57	515.63	512.10	507.87	503.06	497.62	491.86	485.98
70	496.67	494.92	492.70	489.82	486.49	482.32	477.56	472.14	466.18	459.98
71	471.88	469.58	466.86	464.09	460.89	456.95	452.20	446.78	440.73	434.27
72	447.56	445.31	442.46	438.84	435.37	431.64	426.97	421.68	415.62	408.94
73	423.25	421.05	418.26	414.75	410.62	406.38	401.91	396.74	390.77	384.04
74	398.94	396.80	394.09	390.71	386.61	381.98	376.96	371.91	366.13	359.35
75	374.64	372.56	369.94	366.67	362.67	358.17	352.80	347.27	341.68	335.06
76	350.35	348.34	345.81	342.66	338.81	334.44	329.27	323.29	317.39	311.06
77	326.06	324.13	321.70	318.69	315.03	310.79	305.88	300.08	293.57	287.30
78	301.79	299.93	297.62	294.75	291.28	287.23	282.57	276.96	270.75	263.83
79	277.52	275.73	273.57	270.86	267.60	263.73	259.31	253.99	248.07	241.29
80	253.25	251.56	249.53	247.01	243.95	240.29	236.14	231.19	225.56	219.16
81	230.14	228.25	226.02	223.27	220.33	216.90	213.08	208.52	203.26	197.23
82	207.23	205.40	203.25	200.62	197.48	193.81	190.10	185.95	181.08	175.46
83	184.34	182.56	180.49	177.98	174.99	171.55	167.79	163.52	159.03	153.88
84	161.43	159.71	157.75	155.35	152.54	149.33	145.80	141.82	137.36	132.45
85	138.54	136.88	135.01	132.75	130.11	127.14	123.86	120.20	116.14	111.59
86	115.64	114.05	112.28	110.16	107.71	104.98	101.98	98.65	94.98	90.96
87	92.74	91.23	89.54	87.58	85.32	82.85	80.12	77.14	73.91	70.43

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

88	69.85	68.41	66.82	65.00	62.95	60.73	58.29	55.68	52.89	49.96
89	46.95	45.59	44.11	42.44	40.59	38.63	36.49	34.24	31.91	29.55
90	24.06	22.77	21.39	19.88	18.24	16.54	14.71	12.83	10.95	9.18

Vert. Horizontal Angles

	150	155	160	165	170	175	180	185	190	195
0	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43
1	1790.72	1790.96	1791.21	1791.46	1791.74	1792.01	1792.29	1791.86	1791.45	1791.04
2	1788.71	1789.15	1789.62	1790.13	1790.65	1791.19	1791.75	1790.90	1790.07	1789.26
3	1785.83	1786.33	1786.91	1787.55	1788.26	1789.02	1789.84	1788.58	1787.38	1786.24
4	1782.66	1783.23	1783.88	1784.64	1785.52	1786.49	1787.56	1785.90	1784.34	1782.89
5	1778.61	1779.25	1779.99	1780.89	1781.94	1783.13	1784.46	1782.39	1780.45	1778.67
6	1773.96	1774.26	1775.06	1776.14	1777.39	1778.81	1780.38	1777.93	1775.64	1773.54
7	1769.10	1769.52	1770.18	1770.99	1772.14	1773.61	1775.38	1772.60	1770.14	1768.01
8	1763.15	1763.28	1763.75	1764.57	1765.81	1767.43	1769.43	1766.30	1763.55	1761.19
9	1756.65	1756.80	1757.59	1758.35	1759.53	1761.23	1763.44	1759.95	1756.98	1754.57
10	1750.22	1749.80	1750.10	1750.83	1752.02	1753.83	1756.24	1752.41	1749.19	1746.59
11	1742.71	1742.07	1741.97	1742.57	1743.83	1745.77	1748.39	1744.21	1740.76	1738.05
12	1734.58	1733.77	1733.54	1733.95	1734.92	1736.78	1739.54	1735.11	1731.57	1728.89
13	1726.39	1724.91	1724.07	1724.21	1725.31	1727.41	1730.45	1725.65	1721.80	1718.89
14	1717.26	1715.30	1714.24	1713.99	1714.94	1717.09	1720.36	1715.25	1711.25	1708.40
15	1707.73	1705.22	1703.65	1703.37	1704.04	1706.04	1709.39	1704.05	1700.03	1697.29
16	1697.56	1694.60	1692.41	1691.55	1692.14	1694.16	1697.62	1692.06	1687.91	1685.20
17	1686.99	1683.25	1680.87	1679.35	1679.53	1681.45	1685.08	1679.28	1675.16	1672.75
18	1676.09	1671.56	1668.08	1666.49	1666.50	1668.29	1671.97	1665.95	1661.81	1659.55
19	1664.47	1658.97	1655.27	1653.12	1652.82	1654.65	1658.59	1652.30	1647.98	1645.75
20	1649.95	1646.34	1641.80	1639.18	1638.56	1640.21	1644.23	1637.65	1633.36	1631.54
21	1633.68	1632.85	1627.81	1624.43	1623.39	1624.88	1629.03	1622.32	1618.10	1616.44
22	1616.53	1619.09	1612.94	1608.99	1607.81	1609.23	1613.45	1606.57	1602.39	1601.00
23	1599.27	1603.23	1597.77	1593.37	1591.80	1592.99	1597.27	1590.23	1586.31	1585.18
24	1581.33	1585.07	1582.18	1577.03	1574.78	1575.57	1579.72	1572.71	1569.10	1568.48
25	1563.12	1566.41	1565.84	1559.96	1557.34	1557.97	1562.20	1554.98	1551.45	1551.15
26	1544.60	1547.17	1549.21	1542.56	1539.33	1539.75	1543.95	1536.66	1533.30	1533.34
27	1525.65	1527.62	1531.88	1524.71	1520.75	1520.94	1525.34	1517.90	1514.69	1515.11
28	1506.47	1507.67	1512.26	1505.81	1501.64	1501.63	1506.04	1498.48	1495.35	1496.49
29	1486.83	1487.43	1490.96	1487.04	1482.28	1481.78	1486.08	1478.51	1475.79	1477.37
30	1467.05	1466.29	1469.79	1467.79	1462.46	1461.41	1465.53	1458.05	1455.64	1457.74
31	1446.65	1445.19	1448.24	1448.03	1441.86	1440.69	1445.04	1437.27	1434.97	1437.70
32	1425.95	1424.03	1426.22	1427.89	1420.95	1419.52	1423.86	1416.17	1414.17	1417.38
33	1405.04	1402.53	1403.86	1407.03	1399.43	1397.71	1402.02	1394.30	1392.69	1396.73
34	1384.38	1380.76	1380.91	1385.97	1377.73	1375.43	1379.53	1371.92	1370.56	1375.59
35	1363.27	1358.18	1357.78	1363.05	1355.46	1352.83	1356.99	1349.30	1348.64	1352.26
36	1342.00	1335.68	1334.63	1338.91	1333.20	1329.90	1333.85	1326.36	1325.96	1328.71
37	1317.39	1313.04	1310.89	1314.89	1310.29	1306.68	1310.68	1303.07	1303.06	1304.37
38	1292.72	1290.46	1287.28	1290.42	1287.27	1282.91	1286.64	1279.31	1279.91	1280.02
39	1267.97	1267.12	1263.22	1265.67	1263.66	1258.87	1262.34	1255.13	1256.15	1255.28
40	1243.47	1244.17	1239.04	1240.50	1239.73	1234.47	1238.10	1230.92	1232.47	1230.06
41	1218.41	1220.20	1214.50	1215.02	1215.38	1209.93	1213.50	1206.33	1208.14	1205.05
42	1193.68	1194.22	1189.87	1189.29	1191.46	1185.09	1188.64	1181.43	1184.15	1179.32
43	1168.65	1168.12	1165.19	1163.99	1166.89	1159.78	1162.97	1156.11	1159.34	1154.12
44	1143.91	1142.00	1140.32	1138.08	1141.81	1134.32	1137.33	1130.69	1134.50	1128.23
45	1118.98	1116.02	1115.43	1111.83	1116.93	1108.76	1111.42	1105.11	1109.63	1102.31
46	1094.03	1090.00	1090.31	1085.98	1090.85	1082.91	1085.34	1079.09	1083.56	1076.38
47	1069.14	1064.11	1064.65	1059.78	1063.95	1056.89	1059.07	1053.24	1056.35	1050.47
48	1044.27	1037.83	1037.65	1033.52	1036.56	1030.72	1032.88	1027.15	1029.87	1024.08

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

49	1019.95	1011.77	1010.51	1007.11	1009.57	1004.64	1006.18	1000.77	1002.69	997.93
50	992.61	986.02	983.35	980.71	982.13	977.76	979.04	974.06	975.24	971.77
51	964.44	960.23	956.21	954.32	954.63	951.38	952.63	947.62	947.79	945.33
52	936.85	934.70	929.21	927.84	927.46	924.55	925.65	921.11	920.60	919.34
53	909.36	909.09	902.15	901.27	899.65	897.97	898.66	894.51	893.53	892.83
54	882.27	883.04	875.33	875.26	872.49	871.12	871.14	867.71	866.38	866.86
55	855.09	854.85	848.47	848.05	844.93	844.26	844.15	840.80	839.05	840.21
56	828.04	826.44	822.18	820.21	817.41	817.21	817.06	813.66	811.53	812.41
57	801.10	798.33	795.46	792.21	789.85	790.30	789.63	786.90	784.30	785.05
58	774.63	770.52	769.40	764.37	762.40	763.60	762.39	760.40	757.21	757.59
59	748.46	743.03	743.16	736.59	735.18	736.55	735.03	733.25	730.46	730.48
60	720.90	715.64	715.53	709.06	707.68	709.64	707.68	706.45	703.28	703.61
61	693.30	688.47	686.74	681.85	680.30	682.76	680.40	679.61	676.33	676.95
62	665.98	661.64	658.23	654.53	653.06	655.81	653.35	652.92	649.81	650.56
63	639.02	634.98	630.20	627.51	625.80	629.10	625.91	626.41	623.24	624.31
64	612.44	607.73	602.67	600.68	598.55	602.12	598.82	599.59	596.88	598.53
65	586.12	580.11	575.18	573.82	570.74	574.03	571.59	572.17	570.10	572.66
66	560.11	552.96	547.90	546.89	542.54	545.66	544.82	544.61	542.93	546.91
67	534.58	526.21	520.91	518.22	514.05	517.12	517.79	517.43	515.98	519.74
68	507.71	499.87	494.23	490.03	485.92	488.79	491.02	490.35	489.16	492.92
69	480.71	473.96	466.77	461.79	458.31	460.22	464.10	463.24	463.14	466.33
70	454.27	448.43	439.87	434.10	430.78	432.17	436.89	436.47	437.03	439.99
71	428.02	422.38	413.36	406.82	403.65	404.25	409.64	410.11	411.49	414.18
72	402.14	395.83	387.61	380.16	376.82	376.44	381.83	383.56	386.58	388.89
73	376.63	369.85	362.21	353.87	350.69	348.78	355.26	357.49	361.95	363.98
74	351.58	344.37	337.57	327.63	323.21	321.50	329.03	331.78	336.09	338.57
75	327.36	319.21	311.96	302.17	296.07	294.28	302.83	306.06	310.10	313.73
76	303.47	294.89	286.85	277.64	269.66	267.54	276.23	280.63	284.90	289.62
77	279.94	271.26	262.52	253.95	244.26	240.91	250.11	255.31	260.23	266.23
78	256.84	248.29	239.01	230.58	219.44	214.90	223.69	230.06	235.99	243.05
79	234.07	225.81	216.08	206.90	195.47	189.43	197.78	205.50	212.11	219.29
80	211.82	203.81	194.28	184.13	172.60	165.14	172.40	181.84	189.09	196.32
81	190.30	182.29	173.13	162.25	151.03	141.68	147.36	159.16	167.18	174.02
82	169.03	161.37	152.51	141.49	130.16	118.45	123.01	136.30	145.79	152.83
83	147.99	140.85	132.52	122.02	109.61	95.99	99.36	113.87	124.38	132.61
84	127.18	120.68	112.93	103.13	90.46	75.54	76.54	93.11	104.24	113.08
85	106.59	100.79	93.76	84.85	73.02	57.85	54.51	73.83	85.61	93.96
86	86.54	81.24	74.94	67.06	56.94	42.78	33.77	56.59	68.24	75.14
87	66.64	62.21	56.74	49.85	41.57	29.41	15.70	40.93	51.55	56.81
88	46.86	43.35	39.14	33.70	26.84	18.38	6.88	28.40	35.54	40.35
89	27.14	24.62	21.73	18.30	14.33	8.45	3.70	17.42	22.28	25.16
90	7.47	5.94	4.42	3.09	2.72	2.75	3.11	9.87	10.04	10.12

Vert. 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	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43
1	1790.63	1790.25	1789.89	1789.54	1789.20	1788.91	1788.62	1788.37	1788.16	1787.96
2	1788.48	1787.73	1787.03	1786.36	1785.75	1785.18	1784.68	1784.24	1783.86	1783.48
3	1785.18	1784.20	1783.31	1782.50	1781.79	1781.17	1780.57	1779.90	1779.33	1778.89
4	1781.57	1780.38	1779.29	1778.14	1777.14	1776.33	1775.72	1775.21	1774.84	1774.20
5	1777.06	1775.63	1774.34	1773.24	1772.32	1771.59	1770.72	1770.05	1769.67	1769.42
6	1771.66	1770.07	1768.90	1767.87	1766.85	1766.05	1765.49	1765.02	1764.39	1764.19
7	1766.22	1764.60	1763.18	1761.86	1760.91	1760.37	1759.75	1759.47	1759.30	1758.86
8	1759.25	1757.72	1756.57	1755.78	1754.97	1754.22	1753.89	1753.63	1753.68	1753.68
9	1752.63	1750.65	1749.32	1748.57	1748.18	1748.07	1747.81	1747.76	1747.80	1748.21

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

10	1744.51	1742.86	1742.12	1741.33	1740.99	1741.09	1741.54	1741.74	1742.06	1742.50
11	1735.97	1734.49	1733.72	1733.31	1733.83	1733.94	1734.62	1735.55	1736.17	1736.68
12	1726.85	1725.58	1725.06	1724.97	1725.43	1726.82	1727.66	1728.87	1727.19	1724.79
13	1716.98	1716.03	1715.78	1716.29	1717.13	1718.42	1720.33	1717.23	1714.91	1712.66
14	1706.86	1706.02	1706.09	1706.93	1708.50	1710.28	1706.93	1704.36	1702.18	1700.41
15	1695.86	1695.47	1696.14	1697.31	1699.24	1696.94	1693.51	1691.51	1689.56	1688.12
16	1684.14	1684.01	1685.38	1687.48	1686.89	1682.98	1680.09	1677.92	1676.51	1675.58
17	1672.10	1672.25	1673.81	1676.85	1672.61	1668.96	1666.32	1664.41	1663.51	1662.77
18	1659.04	1660.13	1662.27	1661.63	1657.76	1654.48	1652.34	1650.86	1650.21	1650.09
19	1645.55	1647.16	1650.20	1646.25	1642.13	1639.86	1638.14	1637.11	1636.72	1636.90
20	1631.82	1633.73	1635.35	1630.43	1626.78	1624.64	1623.50	1623.26	1623.25	1623.83
21	1617.06	1620.25	1618.50	1613.87	1610.98	1609.17	1608.82	1609.21	1609.63	1610.77
22	1601.94	1605.36	1601.60	1596.98	1594.73	1593.68	1593.71	1594.68	1596.02	1597.08
23	1586.53	1589.39	1583.50	1580.10	1578.07	1577.69	1578.50	1580.11	1581.41	1578.61
24	1570.91	1571.07	1565.44	1562.40	1561.17	1561.72	1563.29	1565.28	1562.74	1560.29
25	1554.15	1552.51	1547.21	1544.53	1544.28	1545.23	1547.44	1545.88	1543.79	1541.87
26	1537.15	1533.00	1528.64	1526.57	1526.75	1528.47	1529.57	1526.58	1524.73	1523.46
27	1519.39	1513.28	1509.29	1508.35	1509.18	1512.05	1509.08	1507.15	1505.69	1505.06
28	1499.53	1492.95	1489.83	1489.49	1491.40	1492.07	1489.08	1487.42	1486.61	1486.55
29	1478.54	1472.45	1470.03	1470.50	1473.57	1471.02	1468.73	1467.71	1467.53	1467.97
30	1457.24	1451.68	1449.80	1451.20	1453.33	1449.99	1448.46	1448.12	1448.45	1449.36
31	1435.39	1430.66	1429.42	1431.77	1431.28	1428.92	1427.94	1428.10	1429.21	1430.77
32	1413.20	1409.17	1409.02	1411.92	1409.26	1407.49	1407.30	1408.36	1409.96	1411.95
33	1390.89	1387.22	1388.26	1390.11	1386.94	1386.05	1386.64	1388.50	1390.72	1391.25
34	1368.28	1365.40	1367.11	1367.25	1364.60	1364.53	1365.74	1368.52	1370.37	1368.79
35	1345.29	1343.24	1345.48	1344.12	1342.25	1343.13	1345.27	1348.60	1347.39	1346.37
36	1321.62	1320.89	1324.23	1320.57	1319.62	1321.08	1324.32	1325.59	1324.37	1323.86
37	1298.50	1298.18	1300.15	1296.98	1297.24	1299.66	1303.74	1301.91	1301.32	1301.34
38	1274.54	1275.23	1275.74	1273.35	1274.63	1278.07	1279.49	1278.18	1278.52	1278.87
39	1250.67	1252.20	1251.13	1249.94	1251.95	1256.26	1255.45	1254.64	1255.38	1256.40
40	1226.57	1229.06	1226.32	1226.24	1229.43	1231.87	1230.75	1231.23	1232.27	1233.94
41	1202.11	1205.54	1201.76	1202.72	1206.48	1207.02	1206.53	1207.60	1209.26	1211.48
42	1177.66	1179.58	1176.93	1178.81	1183.83	1182.06	1182.48	1184.14	1186.40	1188.94
43	1152.76	1153.71	1152.27	1155.17	1157.81	1157.19	1158.19	1160.56	1163.31	1166.03
44	1128.18	1127.88	1127.49	1131.66	1132.32	1132.37	1134.08	1137.12	1140.41	1141.02
45	1103.24	1101.75	1102.84	1107.88	1106.67	1107.31	1109.79	1113.91	1115.34	1115.80
46	1078.10	1076.01	1078.10	1081.98	1080.85	1082.63	1086.01	1089.60	1090.04	1090.88
47	1052.96	1050.17	1053.22	1055.39	1055.38	1057.89	1061.99	1063.58	1064.77	1066.07
48	1026.08	1024.40	1028.83	1029.16	1030.01	1033.32	1037.25	1037.95	1039.61	1041.12
49	999.27	998.59	1004.29	1002.89	1004.62	1008.66	1011.29	1012.47	1014.43	1016.27
50	972.17	973.06	977.51	976.55	979.32	984.20	985.10	986.90	989.25	991.49
51	945.31	947.53	950.37	950.43	954.22	957.55	959.19	961.58	964.19	966.77
52	918.70	922.13	923.19	924.60	929.28	931.11	933.42	936.10	939.18	942.06
53	891.96	896.70	896.46	898.83	903.45	904.85	907.67	910.94	914.26	917.09
54	865.60	871.23	869.88	873.13	876.67	878.96	882.25	885.93	889.61	891.04
55	839.12	843.55	843.36	847.76	850.00	853.03	856.85	860.97	863.33	864.89
56	812.89	816.07	817.06	821.80	823.67	827.11	831.56	835.23	837.04	838.84
57	786.79	788.65	790.90	794.71	797.39	801.65	806.46	808.77	810.83	812.83
58	761.24	761.60	764.95	768.11	771.42	776.25	780.20	782.40	784.74	786.90
59	735.76	734.82	739.44	741.56	745.78	750.88	753.49	756.10	758.71	761.02
60	708.52	708.23	712.68	715.27	720.07	724.59	727.15	729.94	732.77	735.20
61	680.78	682.01	685.67	689.29	694.83	698.04	700.84	703.87	706.89	709.49
62	653.29	656.10	658.91	663.51	669.09	671.63	674.64	677.90	681.10	683.84
63	626.41	630.40	632.83	638.05	642.19	645.28	648.82	652.09	655.44	658.24
64	599.65	603.62	606.86	612.97	615.87	619.15	622.97	626.41	629.84	632.68
65	573.36	577.02	581.28	586.63	589.67	593.10	597.23	600.83	604.36	607.20

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

66	547.33	550.75	555.91	560.31	563.53	567.33	571.60	575.43	578.89	581.82
67	521.79	524.98	530.99	534.01	537.70	541.86	546.17	550.13	553.52	556.51
68	496.23	499.51	504.99	508.07	512.17	516.63	520.93	524.97	528.31	531.25
69	469.86	474.45	478.96	482.40	486.90	491.51	495.88	499.91	503.23	506.02
70	443.69	449.74	453.04	457.07	461.83	466.59	470.98	474.92	478.22	480.86
71	418.34	424.47	427.56	432.08	436.94	441.89	446.21	450.01	453.19	455.73
72	393.35	398.57	402.54	407.47	412.39	417.33	421.55	425.22	428.21	430.86
73	368.93	373.22	377.69	383.13	388.11	392.93	396.99	400.54	403.76	406.75
74	344.97	348.33	353.29	358.98	364.06	368.67	372.62	376.42	379.86	382.69
75	319.64	323.80	329.43	335.07	340.15	344.57	348.83	352.72	356.03	358.69
76	294.89	299.79	305.85	311.42	316.45	320.92	325.40	329.09	332.24	334.73
77	270.78	276.34	282.56	288.07	293.02	297.75	302.04	305.56	308.49	310.81
78	247.36	253.44	259.66	265.03	270.15	274.69	278.77	282.07	284.79	286.90
79	224.53	231.09	237.07	242.49	247.41	251.75	255.59	258.65	261.13	263.04
80	202.48	209.06	214.86	220.14	224.87	228.95	232.47	235.28	237.51	239.18
81	180.98	187.39	193.05	198.00	202.43	206.26	209.44	211.98	213.95	215.42
82	160.00	166.12	171.49	176.06	180.14	183.67	186.46	188.86	190.86	192.39
83	139.60	145.16	150.14	154.28	157.98	161.21	163.95	166.23	168.01	169.36
84	119.34	124.50	128.99	132.66	136.21	139.27	141.66	143.64	145.18	146.35
85	99.46	104.09	108.07	111.71	114.84	117.42	119.42	121.09	122.38	123.36
86	79.94	84.20	88.11	91.03	93.56	95.62	97.22	98.56	99.59	100.38
87	61.45	65.35	68.27	70.45	72.34	73.86	75.05	76.05	76.83	77.41
88	44.13	46.66	48.54	49.95	51.16	52.14	52.91	53.56	54.07	54.46
89	26.98	28.07	28.88	29.48	30.01	30.45	30.79	31.08	31.32	31.49
90	9.92	9.53	9.24	9.04	8.89	8.76	8.66	8.60	8.57	8.54

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	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43
1	1787.79	1787.66	1787.56	1787.50	1787.48	1787.43	1787.41	1787.44	1787.49	1787.59
2	1783.17	1782.93	1782.72	1782.59	1782.52	1782.42	1782.39	1782.44	1782.59	1782.81
3	1778.56	1778.18	1777.91	1777.69	1777.57	1777.41	1777.37	1777.48	1777.68	1777.77
4	1773.73	1773.47	1773.09	1772.80	1772.61	1772.40	1772.37	1772.49	1772.52	1772.58
5	1768.94	1768.55	1768.31	1767.93	1767.65	1767.40	1767.37	1767.37	1767.29	1767.20
6	1764.14	1763.62	1763.50	1763.07	1762.70	1762.40	1762.35	1762.28	1761.89	1761.76
7	1758.90	1758.81	1758.53	1758.22	1757.74	1757.40	1757.31	1756.93	1756.46	1756.48
8	1753.59	1753.92	1753.54	1753.38	1752.79	1752.40	1752.34	1751.54	1751.11	1750.58
9	1748.28	1748.69	1748.57	1748.54	1747.84	1747.40	1747.31	1746.18	1745.66	1744.56
10	1743.09	1743.45	1743.73	1743.73	1742.88	1742.40	1742.01	1740.84	1739.86	1738.50
11	1735.23	1733.79	1733.04	1732.23	1731.09	1730.83	1730.90	1731.17	1731.59	1732.32
12	1723.16	1721.86	1721.19	1720.38	1719.28	1719.00	1718.84	1719.09	1719.24	1719.85
13	1710.90	1709.94	1709.22	1708.45	1707.49	1707.17	1706.85	1706.89	1706.93	1707.44
14	1698.79	1697.95	1697.29	1696.53	1695.70	1695.32	1694.88	1694.66	1694.49	1694.83
15	1686.69	1685.90	1685.38	1684.60	1683.90	1683.43	1682.88	1682.34	1682.05	1682.09
16	1674.35	1673.78	1673.42	1672.68	1672.10	1671.52	1670.84	1670.05	1669.62	1669.24
17	1662.01	1661.51	1661.48	1660.75	1660.31	1659.59	1658.77	1657.82	1657.06	1656.29
18	1649.71	1649.31	1649.51	1648.87	1648.51	1647.63	1646.67	1645.58	1644.42	1643.04
19	1637.52	1637.24	1637.46	1637.00	1636.72	1635.68	1634.60	1633.28	1631.72	1630.13
20	1624.91	1625.07	1625.39	1625.12	1624.92	1623.75	1622.56	1620.99	1619.06	1616.93
21	1612.09	1610.75	1609.38	1608.10	1607.44	1606.64	1606.46	1606.69	1606.39	1603.50
22	1595.13	1593.02	1591.89	1590.68	1589.97	1589.15	1588.70	1588.76	1588.69	1589.46
23	1577.02	1575.39	1574.42	1573.27	1572.49	1571.65	1570.95	1570.71	1570.40	1571.11
24	1558.75	1557.80	1556.90	1555.86	1555.01	1554.13	1553.22	1552.65	1552.32	1552.22
25	1540.69	1540.25	1539.27	1538.42	1537.53	1536.57	1535.49	1534.64	1533.83	1533.63
26	1522.67	1522.66	1521.67	1520.98	1520.06	1519.01	1517.76	1516.64	1515.37	1514.82

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

27	1504.67	1504.71	1504.06	1503.52	1502.57	1501.43	1500.01	1498.70	1496.95	1495.79
28	1486.48	1486.80	1486.38	1486.06	1485.10	1483.85	1482.28	1480.77	1478.61	1476.92
29	1468.28	1468.97	1468.66	1468.57	1467.62	1466.26	1464.57	1462.49	1460.23	1457.93
30	1450.13	1451.16	1450.90	1451.09	1450.14	1448.65	1446.87	1444.22	1441.70	1438.86
31	1431.95	1432.66	1430.96	1430.08	1428.87	1427.64	1426.82	1425.59	1423.15	1419.72
32	1412.09	1410.77	1409.61	1408.70	1407.59	1406.27	1405.35	1403.86	1403.03	1400.70
33	1389.97	1388.99	1388.25	1387.33	1386.30	1384.90	1383.89	1382.13	1380.92	1380.17
34	1367.84	1367.29	1366.83	1365.97	1365.03	1363.54	1362.36	1360.40	1358.86	1357.88
35	1345.80	1345.56	1345.32	1344.62	1343.75	1342.19	1340.78	1338.68	1336.93	1335.41
36	1323.80	1323.80	1323.78	1323.28	1322.47	1320.84	1319.22	1317.02	1314.96	1312.80
37	1301.78	1302.05	1302.23	1301.93	1301.19	1299.50	1297.69	1295.39	1292.84	1290.31
38	1279.78	1280.34	1280.70	1280.56	1279.92	1278.17	1276.20	1273.61	1270.76	1267.95
39	1257.78	1258.68	1259.17	1259.19	1258.64	1256.84	1254.73	1251.80	1248.78	1245.56
40	1235.66	1236.98	1237.65	1237.81	1237.36	1235.49	1233.26	1230.08	1226.82	1223.25
41	1213.55	1215.10	1214.51	1213.83	1213.10	1211.53	1210.10	1208.47	1204.90	1201.01
42	1190.85	1190.51	1190.10	1189.55	1188.85	1187.26	1185.64	1184.04	1182.36	1178.74
43	1166.10	1165.94	1165.73	1165.27	1164.60	1162.98	1161.21	1159.47	1157.60	1155.91
44	1141.21	1141.41	1141.38	1141.00	1140.34	1138.72	1136.79	1134.91	1132.74	1130.79
45	1116.42	1116.90	1117.03	1116.74	1116.09	1114.45	1112.40	1110.37	1107.95	1105.64
46	1091.71	1092.34	1092.67	1092.47	1091.83	1090.19	1088.06	1085.76	1083.12	1080.57
47	1067.08	1067.81	1068.34	1068.22	1067.58	1065.93	1063.75	1061.19	1058.37	1055.63
48	1042.48	1043.35	1044.01	1043.97	1043.33	1041.67	1039.44	1036.70	1033.75	1030.57
49	1017.91	1018.97	1019.71	1019.73	1019.07	1017.40	1015.13	1012.28	1009.16	1005.57
50	993.31	994.61	995.45	995.49	994.82	993.14	990.79	987.89	984.44	980.73
51	968.75	970.24	970.44	970.10	969.33	967.79	965.78	963.45	959.75	955.94
52	943.87	944.54	944.84	944.58	943.85	942.31	940.27	937.83	934.88	931.20
53	917.97	918.85	919.25	919.05	918.36	916.83	914.77	912.25	909.23	906.19
54	892.06	893.09	893.61	893.50	892.87	891.36	889.26	886.68	883.63	880.39
55	866.11	867.32	867.96	867.95	867.38	865.89	863.75	861.13	858.04	854.67
56	840.24	841.61	842.33	842.39	841.89	840.42	838.27	835.62	832.48	829.03
57	814.49	815.92	816.71	816.84	816.41	814.97	812.79	810.14	806.96	803.38
58	788.78	790.23	791.11	791.28	790.93	789.52	787.35	784.72	781.49	777.85
59	763.09	764.55	765.53	765.72	765.44	764.08	761.92	759.31	756.06	752.32
60	737.38	738.90	739.98	740.16	739.95	738.64	736.50	733.92	730.66	726.85
61	711.68	713.28	714.45	714.64	714.43	713.13	711.01	708.52	705.32	701.49
62	686.06	687.75	688.94	689.12	688.92	687.61	685.50	683.01	679.91	676.21
63	660.54	662.24	663.44	663.63	663.40	662.09	660.01	657.53	654.42	650.82
64	635.03	636.74	637.95	638.13	637.87	636.57	634.54	632.07	628.97	625.38
65	609.56	611.26	612.44	612.64	612.36	611.05	609.07	606.63	603.56	600.00
66	584.14	585.81	586.92	587.16	586.84	585.54	583.60	581.20	578.18	574.66
67	558.78	560.39	561.42	561.68	561.32	560.04	558.15	555.79	552.84	549.38
68	533.46	535.00	535.92	536.19	535.81	534.54	532.69	530.40	527.54	524.15
69	508.13	509.64	510.43	510.69	510.28	509.06	507.25	505.04	502.26	499.00
70	482.83	484.27	484.95	485.20	484.76	483.58	481.81	479.68	477.01	473.90
71	457.56	459.29	460.26	460.71	460.35	459.13	457.17	454.73	451.78	448.85
72	433.22	434.96	435.88	436.29	435.93	434.76	432.82	430.45	427.49	424.09
73	409.01	410.65	411.51	411.88	411.50	410.39	408.51	406.19	403.37	400.08
74	384.84	386.35	387.15	387.46	387.09	386.01	384.21	381.94	379.26	376.10
75	360.69	362.06	362.79	363.05	362.67	361.63	359.91	357.70	355.20	352.12
76	336.56	337.80	338.43	338.64	338.25	337.26	335.61	333.47	331.15	328.18
77	312.45	313.55	314.08	314.24	313.83	312.87	311.32	309.25	307.12	304.29
78	288.37	289.30	289.74	289.83	289.40	288.49	287.03	285.05	283.11	280.45
79	264.31	265.08	265.39	265.42	264.99	264.12	262.75	260.86	259.12	256.65
80	240.26	240.87	241.05	241.01	240.57	239.73	238.46	236.68	235.16	232.88
81	216.59	217.32	217.65	217.72	217.36	216.56	215.30	213.42	211.75	209.25
82	193.45	194.11	194.40	194.46	194.15	193.45	192.33	190.65	189.16	186.92

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

83	170.32	170.90	171.16	171.22	170.94	170.34	169.36	167.89	166.59	164.61
84	147.19	147.70	147.92	147.96	147.73	147.22	146.39	145.14	144.03	142.33
85	124.07	124.49	124.67	124.72	124.53	124.11	123.43	122.39	121.48	120.07
86	100.96	101.30	101.44	101.46	101.31	101.00	100.47	99.65	98.94	97.82
87	77.84	78.09	78.20	78.22	78.11	77.88	77.51	76.92	76.40	75.58
88	54.74	54.90	54.96	54.96	54.90	54.78	54.56	54.19	53.87	53.35
89	31.63	31.70	31.73	31.72	31.69	31.67	31.59	31.46	31.34	31.13
90	8.53	8.50	8.49	8.46	8.48	8.55	8.64	8.74	8.82	8.91

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	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43	1792.43
1	1787.73	1787.92	1788.13	1788.38	1788.66	1788.97	1789.30	1789.66	1790.04	1790.43
2	1783.11	1783.30	1783.57	1783.91	1784.31	1784.80	1785.36	1785.97	1786.65	1787.39
3	1777.98	1778.23	1778.62	1779.07	1779.60	1780.25	1781.09	1782.05	1783.09	1784.20
4	1772.74	1772.97	1773.41	1774.15	1774.89	1775.44	1776.17	1777.10	1778.21	1779.47
5	1767.29	1767.80	1768.08	1768.33	1768.84	1769.60	1770.58	1771.77	1773.09	1774.64
6	1762.11	1761.88	1761.92	1762.27	1762.85	1763.58	1764.50	1765.65	1767.07	1768.77
7	1756.01	1755.73	1755.78	1755.92	1756.26	1756.87	1757.78	1758.97	1760.48	1762.25
8	1749.90	1749.51	1749.18	1749.12	1749.31	1749.76	1750.39	1751.56	1753.19	1755.08
9	1743.74	1742.90	1742.37	1742.02	1741.76	1742.03	1742.59	1743.61	1745.20	1747.21
10	1737.22	1736.21	1735.27	1734.33	1733.97	1733.80	1734.21	1735.07	1736.71	1738.70
11	1730.74	1729.24	1727.64	1726.50	1725.65	1725.10	1725.38	1725.75	1727.11	1729.21
12	1721.19	1721.85	1719.97	1718.29	1716.81	1715.94	1715.64	1716.09	1717.27	1719.29
13	1708.41	1709.76	1711.69	1709.49	1707.62	1706.36	1705.71	1705.68	1706.54	1708.51
14	1695.37	1696.45	1698.06	1700.54	1698.19	1696.34	1695.02	1694.72	1695.41	1697.26
15	1682.29	1683.12	1684.42	1686.65	1688.28	1685.70	1683.83	1683.32	1683.69	1685.12
16	1669.10	1669.32	1670.46	1672.39	1675.05	1674.47	1672.53	1670.89	1671.34	1672.83
17	1655.78	1655.68	1656.43	1657.66	1659.83	1663.43	1660.08	1658.79	1658.05	1659.30
18	1642.11	1641.78	1641.93	1642.76	1644.88	1647.65	1648.02	1645.31	1644.52	1645.44
19	1628.65	1627.83	1627.18	1627.63	1628.85	1632.15	1634.66	1631.67	1630.48	1631.04
20	1614.90	1613.45	1612.33	1612.47	1613.40	1615.38	1619.23	1617.71	1615.82	1615.95
21	1601.33	1598.90	1597.38	1596.59	1596.86	1598.57	1602.28	1603.10	1600.51	1600.30
22	1587.43	1584.34	1582.38	1581.03	1580.44	1581.70	1584.69	1587.82	1584.83	1584.09
23	1572.21	1569.72	1566.91	1564.56	1563.68	1564.18	1566.68	1571.24	1568.77	1567.51
24	1552.95	1554.80	1551.51	1548.38	1546.67	1546.68	1548.38	1552.64	1551.97	1550.33
25	1533.65	1535.25	1535.68	1531.94	1529.45	1528.60	1529.82	1533.43	1534.80	1532.65
26	1514.35	1515.36	1517.22	1515.26	1512.14	1510.11	1510.72	1513.91	1517.16	1514.22
27	1495.05	1495.35	1496.36	1498.32	1494.26	1491.76	1491.45	1493.98	1498.65	1495.51
28	1475.78	1475.37	1476.02	1478.41	1476.26	1472.88	1471.96	1473.44	1478.63	1476.40
29	1456.36	1455.09	1455.14	1456.97	1458.27	1453.93	1451.93	1452.92	1457.58	1456.69
30	1436.68	1434.93	1434.23	1435.20	1437.94	1434.68	1431.69	1432.19	1435.98	1436.50
31	1416.87	1414.57	1413.57	1413.59	1415.60	1415.17	1411.43	1410.95	1414.08	1416.08
32	1397.35	1394.38	1392.64	1391.84	1393.23	1395.52	1391.05	1389.41	1391.98	1395.57
33	1377.70	1374.00	1371.50	1369.82	1370.38	1373.61	1370.12	1367.79	1369.90	1374.32
34	1357.00	1353.55	1350.17	1347.89	1347.75	1350.32	1349.32	1346.21	1347.10	1352.53
35	1334.05	1333.28	1329.11	1326.11	1324.83	1326.54	1328.14	1323.95	1323.96	1329.85
36	1311.11	1310.55	1307.71	1303.88	1302.02	1302.72	1307.13	1301.60	1301.12	1305.99
37	1288.26	1287.12	1286.47	1281.91	1279.22	1278.90	1282.33	1278.90	1277.77	1281.50
38	1265.42	1263.66	1262.32	1259.75	1255.92	1255.17	1257.62	1256.69	1254.01	1257.29
39	1242.55	1240.13	1238.47	1237.52	1232.95	1231.37	1232.55	1233.85	1230.27	1232.89
40	1219.65	1216.78	1214.39	1213.51	1209.95	1207.23	1207.93	1211.05	1206.39	1208.11
41	1196.80	1193.44	1190.43	1188.80	1186.93	1183.25	1182.93	1187.26	1182.37	1183.29
42	1174.08	1169.93	1166.58	1163.94	1163.89	1159.19	1157.95	1161.28	1158.18	1158.31
43	1151.38	1146.77	1142.62	1139.44	1138.52	1135.26	1132.92	1135.39	1134.10	1133.13

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

44	1128.96	1123.36	1118.64	1114.90	1113.19	1111.21	1108.03	1109.27	1109.77	1107.70
45	1103.88	1100.55	1095.09	1090.62	1087.94	1087.20	1083.14	1083.35	1085.38	1082.59
46	1078.39	1076.57	1071.35	1066.14	1062.70	1061.69	1058.08	1057.40	1061.35	1057.06
47	1052.87	1050.76	1047.77	1042.10	1037.64	1035.95	1033.27	1031.44	1036.25	1031.44
48	1027.64	1025.04	1023.15	1017.85	1012.69	1010.04	1008.18	1005.71	1009.07	1005.84
49	1002.35	999.35	997.11	993.77	987.81	984.30	983.70	979.98	982.21	980.39
50	977.03	973.70	970.87	969.57	963.16	958.63	957.35	953.93	955.34	954.68
51	951.96	948.22	945.08	943.00	938.69	933.27	930.98	928.29	928.67	929.04
52	926.85	922.88	919.21	916.55	914.31	907.89	904.81	902.75	901.88	903.63
53	901.82	897.58	893.51	890.33	888.93	882.86	878.44	877.30	875.09	877.66
54	877.16	872.35	867.95	864.20	861.98	858.01	852.65	851.67	848.66	852.39
55	851.28	847.20	842.48	838.12	835.37	833.24	826.73	824.79	822.05	826.29
56	825.37	821.69	817.10	812.31	809.00	807.73	801.36	798.20	795.98	798.70
57	799.60	795.65	791.87	786.72	782.78	780.61	776.23	771.73	769.74	771.28
58	773.92	769.76	766.02	761.23	756.73	753.88	751.10	745.61	744.04	743.95
59	748.30	744.04	740.08	735.85	730.92	727.38	726.18	719.69	718.27	716.81
60	722.75	718.37	713.96	710.05	705.15	700.95	699.95	693.95	691.58	689.97
61	697.30	692.84	688.19	684.06	679.73	674.94	672.73	668.64	664.80	663.00
62	671.97	667.46	662.68	658.10	654.06	649.22	646.09	643.56	638.64	636.77
63	646.74	642.13	637.31	632.43	628.16	623.76	619.77	618.68	612.52	610.58
64	621.41	616.93	612.04	606.96	602.30	598.35	593.67	592.36	586.47	584.50
65	596.05	591.74	586.96	581.79	576.78	572.43	567.93	565.65	561.16	558.77
66	570.74	566.42	562.10	556.78	551.54	546.80	542.42	539.21	536.29	533.08
67	545.51	541.20	536.76	531.93	526.46	521.36	517.36	513.20	511.48	506.76
68	520.34	516.07	511.55	507.14	501.61	496.41	492.02	487.55	486.67	480.83
69	495.24	491.04	486.62	482.00	476.99	471.48	466.68	462.21	460.03	455.17
70	470.25	466.14	461.77	457.07	452.41	446.93	441.65	437.37	433.90	430.01
71	445.30	441.33	437.05	432.35	427.72	422.64	416.98	412.43	408.36	405.33
72	420.42	416.61	412.46	407.87	403.21	398.44	392.74	387.59	383.21	381.12
73	396.04	392.00	388.00	383.57	378.87	374.11	368.75	363.18	358.56	356.92
74	372.20	367.95	363.66	359.37	354.72	349.91	345.01	339.19	334.40	331.44
75	348.41	344.31	339.85	335.32	330.80	326.05	321.12	315.53	310.31	306.55
76	324.68	320.74	316.45	311.73	307.06	302.50	297.56	292.44	286.70	282.32
77	301.01	297.24	293.16	288.64	283.65	279.18	274.27	269.28	263.67	258.62
78	277.38	273.84	269.99	265.65	260.89	256.06	251.33	246.48	241.14	235.40
79	253.79	250.49	246.87	242.78	238.29	233.54	228.74	223.90	219.05	212.81
80	230.26	227.19	223.82	220.02	215.86	211.30	206.52	201.75	196.80	191.03
81	206.75	203.95	200.85	197.38	193.55	189.27	184.74	179.98	175.08	169.87
82	184.26	181.09	177.95	174.82	171.37	167.47	163.23	158.69	153.97	149.05
83	162.28	159.48	156.28	152.56	149.30	145.82	141.95	137.71	133.27	128.45
84	140.32	137.91	135.15	131.94	128.23	124.31	120.84	116.98	112.86	108.50
85	118.39	116.39	114.07	111.39	108.23	104.49	99.98	96.50	92.80	88.96
86	96.48	94.88	93.02	90.87	88.32	85.27	81.60	77.01	73.04	69.61
87	74.60	73.41	72.02	70.41	68.47	66.14	63.35	59.87	55.27	50.69
88	52.72	51.95	51.03	49.97	48.66	47.08	45.20	42.89	39.81	35.33
89	30.85	30.50	30.06	29.55	28.89	28.08	27.13	26.01	24.52	22.31
90	8.99	9.06	9.11	9.14	9.14	9.10	9.09	9.19	9.33	9.45

Vert. Angles **Horizontal Angles**

	<u>350</u>	<u>355</u>	<u>360</u>
0	1792.43	1792.43	1792.43
1	1790.84	1791.26	1791.70
2	1788.17	1788.98	1789.83
3	1785.39	1786.63	1787.91
4	1780.89	1782.44	1784.11

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

5	1776.38	1778.31	1780.41
6	1770.73	1772.97	1775.45
7	1764.42	1766.95	1769.82
8	1757.46	1760.29	1763.57
9	1749.78	1752.93	1756.60
10	1741.23	1744.47	1748.44
11	1731.98	1735.55	1739.91
12	1722.03	1725.75	1730.42
13	1711.50	1715.61	1720.77
14	1700.21	1704.40	1709.81
15	1688.19	1692.58	1698.32
16	1675.52	1679.84	1685.85
17	1662.12	1666.70	1673.08
18	1648.19	1652.82	1659.41
19	1633.68	1638.45	1645.39
20	1618.26	1623.10	1630.33
21	1602.38	1607.15	1614.65
22	1586.33	1591.08	1598.80
23	1569.39	1574.18	1582.15
24	1551.82	1556.65	1564.87
25	1533.73	1538.43	1546.86
26	1514.87	1519.75	1528.46
27	1496.02	1500.66	1509.53
28	1476.47	1481.01	1490.11
29	1456.36	1460.55	1469.69
30	1435.88	1439.96	1449.28
31	1415.01	1419.09	1428.61
32	1393.75	1397.44	1407.02
33	1371.76	1375.27	1384.98
34	1349.94	1353.18	1362.92
35	1327.57	1330.32	1339.94
36	1304.39	1307.17	1317.02
37	1281.48	1283.96	1293.71
38	1258.11	1259.98	1269.88
39	1234.29	1236.04	1246.00
40	1210.50	1211.97	1222.12
41	1186.42	1187.27	1197.03
42	1161.94	1162.33	1172.48
43	1137.11	1137.34	1147.32
44	1112.54	1112.02	1121.87
45	1087.70	1086.58	1096.14
46	1061.71	1060.91	1070.95
47	1035.25	1035.16	1044.59
48	1008.83	1008.90	1018.42
49	982.08	982.87	992.29
50	955.64	956.77	966.10
51	928.96	930.40	939.26
52	902.40	903.83	912.95
53	875.46	877.44	886.23
54	849.01	851.05	859.43
55	822.45	824.25	832.56
56	795.74	797.78	805.88
57	769.23	771.21	778.99
58	742.82	744.48	751.94
59	716.28	717.99	725.36
60	690.28	691.40	698.28

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

CANDELA TABULATION - (Cont.)

61	664.28	665.10	671.19
62	638.24	638.56	644.34
63	612.54	612.43	617.77
64	587.03	585.91	590.73
65	560.54	559.08	564.46
66	533.46	532.55	537.98
67	506.61	505.91	511.30
68	480.13	479.10	484.65
69	453.71	453.23	458.42
70	427.56	427.48	432.42
71	402.15	401.74	406.15
72	377.04	376.31	380.52
73	352.36	351.32	355.08
74	327.02	326.76	329.73
75	302.61	302.54	304.84
76	278.59	278.49	279.77
77	255.29	254.12	254.87
78	232.59	229.09	229.72
79	209.09	204.61	205.18
80	185.75	180.77	180.14
81	163.27	157.71	155.87
82	141.89	135.49	132.00
83	121.42	114.22	108.56
84	102.05	94.25	85.81
85	83.06	73.86	63.77
86	64.85	55.17	42.52
87	47.21	39.17	22.39
88	30.19	25.13	10.69
89	18.87	14.50	6.38
90	9.54	9.63	3.68

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	647.05	N.A.	13.20
0-30	1361.33	N.A.	27.80
0-40	2206.02	N.A.	45.00
0-60	3830.95	N.A.	78.10
0-80	4778.64	N.A.	97.50
0-90	4902.3	N.A.	100.00
10-90	4733.81	N.A.	96.60
20-40	1558.98	N.A.	31.80
20-50	2418.14	N.A.	49.30
40-70	2212.92	N.A.	45.10
60-80	947.69	N.A.	19.30
70-80	359.70	N.A.	7.30
80-90	123.66	N.A.	2.50
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	4902.3	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	168.50
10-20	478.55
20-30	714.29
30-40	844.69
40-50	859.16
50-60	765.77
60-70	587.99
70-80	359.70
80-90	123.66
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-24G-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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

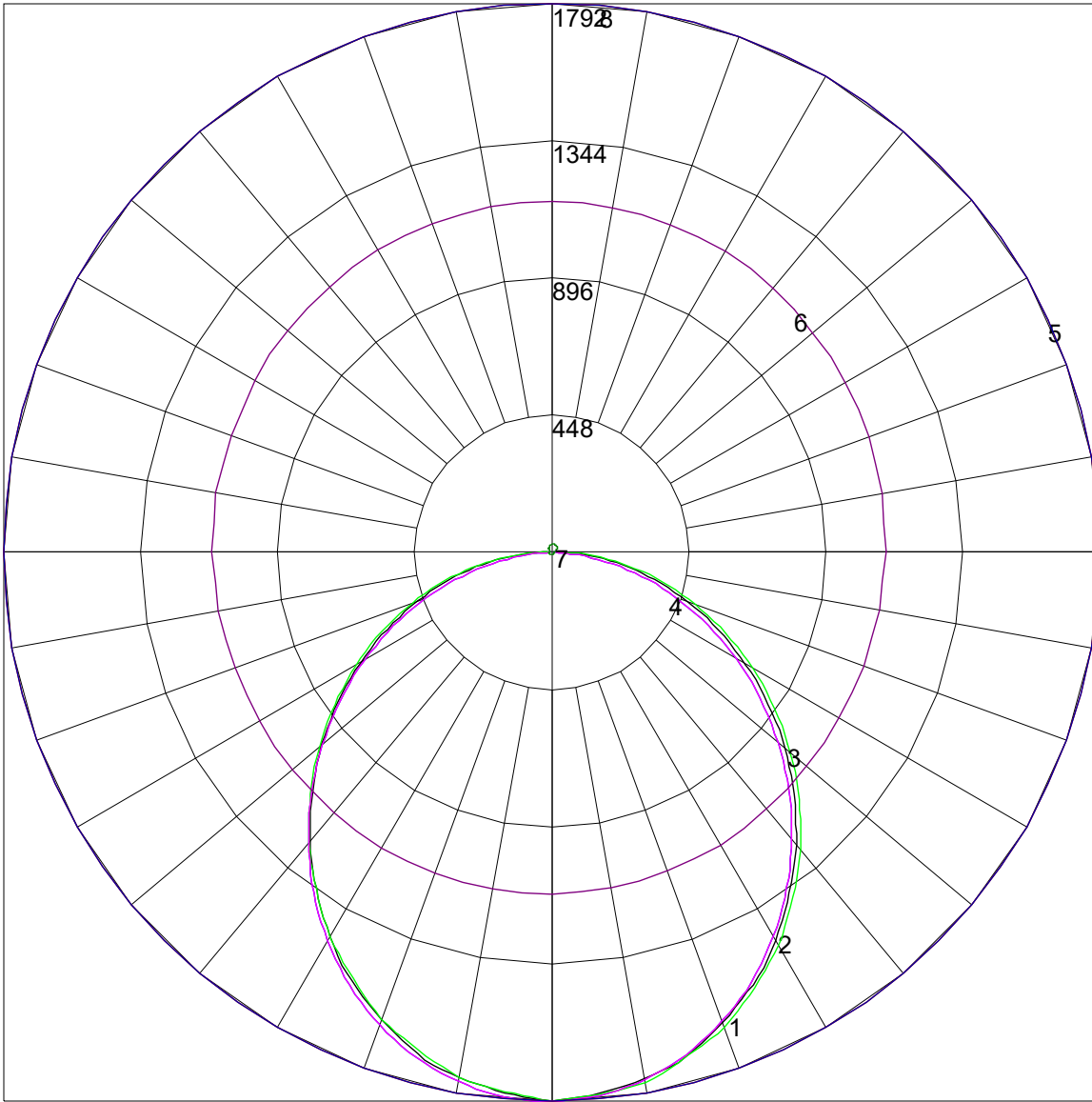
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRW-24G-840K-5000L.IES

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	14.3	15.9	14.6	16.2	16.5	14.7	16.4	15.1	16.7	17.0
	3H	16.0	17.5	16.4	17.9	18.2	16.7	18.2	17.1	18.5	18.9
	4H	16.7	18.1	17.1	18.5	18.8	17.5	18.9	17.9	19.3	19.7
	6H	17.2	18.5	17.6	18.9	19.2	18.2	19.5	18.6	19.9	20.3
	8H	17.3	18.6	17.8	19.0	19.4	18.5	19.7	18.9	20.1	20.5
	12H	17.4	18.6	17.8	19.0	19.4	18.7	19.9	19.2	20.3	20.7
4H	2H	15.0	16.4	15.4	16.7	17.1	15.4	16.8	15.8	17.1	17.5
	3H	17.0	18.2	17.4	18.6	19.0	17.6	18.7	18.0	19.1	19.5
	4H	17.8	18.9	18.2	19.3	19.7	18.5	19.6	19.0	20.0	20.5
	6H	18.4	19.3	18.8	19.8	20.2	19.4	20.3	19.8	20.8	21.2
	8H	18.6	19.5	19.1	19.9	20.4	19.8	20.6	20.2	21.1	21.5
	12H	18.7	19.5	19.2	20.0	20.5	20.1	20.9	20.5	21.3	21.8
8H	4H	18.2	19.1	18.7	19.5	20.0	18.9	19.7	19.3	20.2	20.7
	6H	19.0	19.7	19.5	20.2	20.7	19.9	20.6	20.4	21.1	21.6
	8H	19.3	19.9	19.8	20.4	20.9	20.4	21.0	20.9	21.5	22.0
	12H	19.5	20.1	20.0	20.6	21.1	20.8	21.4	21.3	21.9	22.4
12H	4H	18.3	19.1	18.8	19.5	20.0	18.9	19.7	19.4	20.2	20.6
	6H	19.1	19.8	19.6	20.2	20.8	20.0	20.6	20.5	21.1	21.6
	8H	19.5	20.1	20.0	20.5	21.1	20.5	21.1	21.0	21.6	22.1

Maximum UGR = 22.4

POLAR GRAPH



- Maximum Candela = 1792.43 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)