



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] LLI-14210-2  
 [TESTLAB] LightLab International (www.LightLabInt.com)  
 [MANUFAC] Mobern Lighting Company  
 [LUMCAT] RDIS24-LED60FRDMV40  
 [MORE] Overall luminaire extents ~ 24 x 48 x 3.75". White painted multi facet reflector holds four LED strips.  
 [MORE] Reflector encloses one Universal D10CC55UNVTZ-C driver. Dimmer lines O/C.  
 [MORE] Tested in ceiling position at 120V 60Hz.  
 [OTHER] Absolute test - lamp lumens value set to -1  
 [MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.  
 [MORE] The sample was tested at a distance of 8m.  
 [MORE] This IES file created by LightLab/LSA Report program version 3.804a.  
 [DATE] This file created: Friday, 5 September 2014 3:33:31 PM  
 [ISSUEDATE] Friday, 5 September 2014 3:33:31 PM

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5965
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.16 m
Luminous Width (90-270)	0.55 m
Luminous Height	0.00 m

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3080	3077	3133
55	2669	2675	2711
65	2209	2216	2225
75	1735	1764	1765
85	1271	1390	1452

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CANDELA TABULATION

	<u>0.0</u>	<u>10.0</u>	<u>20.0</u>	<u>22.5</u>	<u>30.0</u>	<u>40.0</u>	<u>45.0</u>	<u>50.0</u>	<u>60.0</u>	<u>67.5</u>
0.0	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237
0.5	2407.519	2404.938	2399.038	2398.367	2399.763	2400.829	2400.447	2400.158	2398.841	2398.169
1.0	2406.847	2404.516	2398.380	2398.011	2399.407	2400.869	2399.407	2398.973	2397.866	2397.287
1.5	2406.162	2403.911	2397.643	2396.616	2398.196	2400.276	2398.630	2398.156	2397.037	2396.695
2.0	2404.951	2402.633	2396.695	2395.760	2396.826	2398.999	2397.787	2397.103	2396.076	2395.193
2.5	2403.516	2401.224	2395.509	2394.561	2395.931	2397.234	2396.089	2395.470	2394.719	2394.337
3.0	2402.041	2399.526	2393.784	2393.086	2393.969	2395.536	2394.127	2394.048	2392.718	2392.744
3.5	2400.145	2397.761	2391.533	2390.861	2392.020	2393.455	2392.507	2391.836	2391.414	2390.848
4.0	2397.866	2395.325	2389.373	2388.636	2390.084	2391.559	2390.532	2390.163	2389.255	2389.044
4.5	2395.444	2392.849	2386.634	2385.897	2387.674	2389.334	2387.872	2387.964	2386.924	2386.674
5.0	2392.797	2390.150	2384.040	2383.105	2384.593	2386.753	2385.568	2385.133	2384.475	2384.317
5.5	2389.650	2387.582	2380.998	2380.287	2381.670	2383.750	2382.565	2382.486	2382.078	2381.420
6.0	2386.568	2384.619	2377.996	2377.390	2378.839	2380.827	2379.668	2379.418	2379.234	2378.878
6.5	2383.210	2381.275	2374.546	2374.032	2375.599	2377.443	2376.324	2376.455	2375.665	2375.073
7.0	2379.734	2377.417	2371.070	2370.385	2372.347	2374.190	2372.610	2372.623	2372.294	2372.044
7.5	2375.994	2373.769	2367.488	2366.487	2368.370	2370.280	2369.226	2369.173	2368.094	2368.620
8.0	2371.820	2369.740	2363.103	2362.629	2364.064	2365.947	2365.078	2365.249	2364.881	2364.235
8.5	2367.462	2365.170	2358.902	2358.468	2359.798	2361.852	2360.759	2360.351	2360.654	2359.877
9.0	2362.616	2360.641	2354.280	2353.569	2355.571	2357.309	2356.374	2355.953	2356.045	2355.795
9.5	2358.073	2355.861	2349.342	2348.697	2350.422	2351.818	2351.173	2351.252	2351.225	2350.949
10.0	2352.542	2350.435	2344.404	2343.641	2345.392	2347.012	2346.656	2346.064	2346.261	2346.195
10.5	2347.064	2345.181	2338.874	2338.584	2339.875	2341.797	2341.152	2341.389	2341.086	2341.139
11.0	2341.507	2339.545	2333.067	2332.659	2334.239	2336.267	2335.595	2335.542	2335.740	2335.555
11.5	2335.503	2333.356	2327.404	2326.838	2328.392	2330.459	2330.183	2329.999	2329.972	2330.499
12.0	2329.248	2327.325	2321.150	2320.386	2322.295	2324.903	2324.073	2324.336	2324.284	2324.784
12.5	2323.257	2320.531	2314.671	2314.250	2316.330	2317.924	2317.634	2318.055	2318.450	2318.924
13.0	2316.172	2314.157	2308.087	2307.837	2309.404	2311.563	2311.142	2311.405	2311.695	2312.353
13.5	2309.628	2307.192	2301.095	2300.726	2302.491	2304.874	2304.426	2304.545	2305.230	2305.638
14.0	2302.109	2299.752	2294.116	2293.563	2295.196	2297.856	2296.934	2297.316	2298.316	2298.632
14.5	2294.774	2292.549	2286.715	2286.096	2287.505	2290.086	2290.060	2290.560	2291.140	2291.601
15.0	2286.676	2284.832	2278.657	2278.235	2280.066	2282.712	2282.686	2282.791	2283.647	2283.963
15.5	2278.841	2276.918	2270.953	2270.203	2272.204	2274.943	2274.706	2275.049	2276.247	2276.681
16.0	2270.255	2268.359	2262.618	2262.131	2264.080	2266.858	2266.410	2266.832	2268.267	2268.965
16.5	2262.091	2259.918	2253.874	2253.874	2255.494	2258.338	2258.259	2258.496	2260.024	2260.300
17.0	2253.163	2251.175	2245.197	2244.946	2246.803	2249.990	2249.489	2250.253	2251.583	2251.833
17.5	2244.051	2241.694	2235.913	2235.808	2237.638	2240.878	2240.720	2241.417	2242.800	2243.050
18.0	2235.097	2232.595	2226.880	2226.682	2228.697	2231.831	2231.778	2232.608	2233.741	2234.215
18.5	2225.234	2222.956	2217.228	2217.294	2219.664	2222.140	2222.179	2222.916	2224.971	2224.971
19.0	2215.858	2213.106	2207.760	2207.194	2209.788	2212.224	2212.566	2213.383	2215.226	2215.635
19.5	2205.824	2203.099	2197.305	2197.370	2199.319	2202.585	2202.783	2203.836	2205.324	2206.075
20.0	2195.395	2192.814	2187.363	2186.915	2189.035	2192.656	2192.893	2193.486	2195.593	2196.133
20.5	2184.571	2182.148	2176.697	2176.328	2178.725	2181.951	2182.306	2183.175	2185.216	2186.020
21.0	2173.984	2171.416	2166.307	2165.688	2167.835	2171.127	2171.548	2172.641	2174.300	2175.841
21.5	2163.463	2160.421	2155.141	2154.772	2157.103	2160.171	2160.724	2162.133	2163.897	2165.017
22.0	2152.310	2149.768	2144.027	2143.592	2145.712	2149.004	2149.689	2150.242	2153.245	2154.272
22.5	2140.709	2138.075	2132.584	2132.637	2134.441	2137.259	2137.877	2139.049	2141.854	2142.987
23.0	2129.331	2126.527	2120.996	2120.746	2122.787	2125.750	2126.118	2127.606	2130.582	2131.491
23.5	2117.125	2114.412	2108.737	2108.921	2110.791	2113.675	2114.004	2115.571	2118.521	2119.653
24.0	2104.997	2102.377	2096.912	2096.846	2098.900	2101.363	2101.863	2103.351	2106.696	2108.039
24.5	2092.843	2089.814	2084.587	2084.363	2086.325	2088.840	2089.261	2091.039	2094.621	2095.951
25.0	2080.386	2077.594	2072.143	2071.405	2073.670	2076.528	2077.120	2078.516	2081.887	2083.731
25.5	2067.666	2064.782	2058.935	2058.962	2060.752	2063.294	2063.689	2065.164	2068.943	2070.800
26.0	2054.616	2051.851	2045.912	2045.925	2047.558	2050.126	2050.890	2052.338	2056.275	2058.277
26.5	2040.948	2038.117	2032.770	2032.757	2034.114	2036.997	2037.379	2038.959	2043.015	2045.280

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27.0	2027.622	2024.778	2019.102	2018.760	2020.393	2023.579	2023.685	2025.528	2029.597	2031.875
27.5	2013.822	2011.346	2005.697	2005.289	2006.606	2009.582	2010.108	2011.583	2016.376	2018.523
28.0	1999.627	1997.151	1991.331	1991.225	1992.569	1995.400	1995.887	1997.559	2002.537	2004.630
28.5	1985.945	1982.943	1977.294	1977.004	1978.373	1980.862	1981.968	1983.377	1988.091	1990.765
29.0	1971.473	1968.168	1962.875	1962.519	1963.731	1966.944	1967.128	1968.879	1973.738	1976.635
29.5	1956.436	1953.460	1947.850	1947.534	1949.035	1951.695	1952.380	1954.026	1958.990	1962.045
30.0	1941.332	1938.593	1933.378	1932.667	1934.129	1936.789	1937.553	1938.909	1944.189	1947.218
30.5	1926.518	1923.529	1918.380	1917.880	1919.249	1921.514	1922.449	1923.990	1929.402	1932.602
31.0	1910.914	1908.056	1902.671	1902.499	1903.553	1906.200	1907.003	1908.214	1914.272	1917.313
31.5	1895.231	1892.505	1887.343	1886.382	1888.120	1890.977	1891.188	1892.992	1898.615	1901.854
32.0	1879.521	1876.782	1871.265	1871.107	1872.174	1874.926	1875.531	1877.493	1882.642	1886.606
32.5	1863.206	1860.415	1855.147	1854.660	1855.608	1858.532	1859.387	1861.020	1866.867	1870.896
33.0	1846.983	1843.849	1839.333	1838.542	1839.807	1842.453	1843.112	1844.982	1850.776	1854.542
33.5	1830.563	1827.837	1822.372	1821.608	1823.412	1826.112	1826.757	1828.456	1834.421	1838.503
34.0	1813.971	1810.837	1805.846	1804.661	1806.347	1809.270	1809.836	1811.759	1817.869	1821.687
34.5	1796.813	1793.811	1788.794	1787.767	1789.531	1792.138	1792.994	1794.772	1801.001	1805.504
35.0	1779.971	1776.587	1771.899	1770.991	1772.413	1775.033	1776.113	1777.799	1784.251	1788.241
35.5	1762.023	1759.482	1754.254	1753.451	1755.163	1757.809	1758.560	1760.206	1766.856	1771.333
36.0	1745.102	1742.087	1736.688	1735.964	1737.491	1740.204	1741.218	1742.785	1749.395	1754.057
36.5	1726.680	1724.007	1718.635	1718.187	1719.556	1722.190	1723.507	1725.535	1731.855	1736.675
37.0	1708.759	1706.165	1700.818	1700.134	1701.213	1704.637	1705.335	1707.376	1714.118	1718.608
37.5	1690.771	1687.703	1682.752	1682.317	1683.068	1686.334	1687.571	1689.402	1696.183	1700.595
38.0	1672.678	1669.452	1664.383	1663.829	1665.107	1667.951	1669.004	1671.204	1678.077	1682.765
38.5	1653.888	1650.991	1645.947	1645.144	1646.382	1649.463	1650.503	1652.887	1659.576	1664.106
39.0	1634.913	1632.095	1627.183	1626.419	1627.907	1631.002	1632.279	1633.951	1641.115	1645.644
39.5	1616.267	1613.106	1608.392	1607.391	1608.958	1612.106	1613.765	1615.516	1622.666	1626.972
40.0	1597.199	1594.118	1589.299	1588.574	1589.825	1593.091	1594.566	1596.580	1603.560	1608.419
40.5	1577.750	1574.932	1570.165	1569.217	1570.692	1574.050	1575.512	1577.724	1584.677	1589.246
41.0	1558.788	1555.549	1550.914	1549.939	1551.520	1554.956	1556.550	1558.578	1565.688	1570.244
41.5	1538.720	1535.692	1531.070	1530.688	1532.018	1535.270	1536.719	1538.878	1546.529	1550.716
42.0	1519.324	1515.992	1511.542	1511.081	1512.595	1515.900	1517.572	1519.495	1526.882	1531.280
42.5	1499.546	1496.227	1491.829	1491.329	1492.408	1496.109	1497.768	1499.888	1507.038	1511.397
43.0	1479.398	1476.291	1472.143	1471.498	1472.709	1476.528	1478.068	1480.281	1487.352	1491.658
43.5	1458.909	1456.302	1451.943	1451.377	1452.667	1456.605	1457.829	1460.371	1467.179	1471.761
44.0	1439.104	1435.997	1431.928	1431.599	1432.731	1436.155	1438.130	1440.500	1447.097	1451.588
44.5	1418.628	1415.692	1411.689	1411.478	1412.373	1416.060	1418.233	1419.984	1426.924	1431.098
45.0	1398.521	1395.452	1391.107	1391.226	1392.226	1396.282	1397.414	1399.745	1406.540	1411.004
45.5	1377.821	1375.068	1370.525	1370.552	1372.000	1375.832	1377.175	1379.756	1386.432	1390.514
46.0	1357.160	1354.276	1350.260	1350.194	1351.669	1355.119	1357.134	1359.517	1365.772	1369.683
46.5	1336.815	1333.405	1329.770	1329.915	1330.982	1334.959	1336.842	1338.909	1344.966	1349.430
47.0	1315.944	1313.021	1309.255	1309.228	1310.861	1314.719	1316.194	1318.670	1324.569	1328.375
47.5	1295.099	1292.084	1288.581	1288.370	1289.792	1293.743	1295.679	1298.022	1303.764	1307.319
48.0	1274.096	1271.384	1268.026	1267.512	1269.290	1272.898	1275.057	1277.191	1283.353	1286.342
48.5	1253.199	1250.697	1247.484	1247.115	1248.577	1252.619	1254.476	1256.635	1262.034	1265.655
49.0	1232.275	1229.825	1226.349	1226.612	1227.587	1231.708	1233.605	1235.856	1241.176	1244.429
49.5	1211.509	1208.915	1205.596	1205.504	1207.374	1211.416	1212.983	1214.906	1220.160	1223.399
50.0	1190.716	1188.083	1185.107	1184.633	1186.700	1190.295	1192.152	1194.127	1199.039	1202.265
50.5	1169.832	1167.238	1164.380	1163.814	1165.829	1169.674	1171.109	1173.479	1178.194	1181.170
51.0	1148.776	1146.288	1143.549	1143.430	1144.971	1148.618	1150.607	1152.740	1156.980	1159.916
51.5	1128.129	1125.429	1122.664	1122.875	1124.350	1128.221	1129.617	1131.697	1136.267	1138.913
52.0	1107.337	1104.453	1102.043	1101.767	1103.360	1107.363	1108.890	1110.813	1114.829	1117.766
52.5	1086.413	1084.016	1081.159	1081.040	1082.831	1086.584	1088.098	1090.087	1093.984	1096.605
53.0	1065.713	1063.211	1060.406	1060.682	1062.394	1066.318	1067.859	1069.650	1073.218	1075.457
53.5	1044.973	1042.234	1039.706	1040.101	1041.826	1045.750	1046.935	1048.910	1052.466	1054.033
54.0	1024.181	1021.942	1019.388	1019.717	1021.192	1024.760	1026.551	1028.473	1031.212	1033.227
54.5	1003.902	1001.361	999.333	999.359	1000.847	1004.824	1006.035	1007.576	1010.486	1012.158

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**CANDELA TABULATION - (Cont.)**

55.0	983.228	980.805	978.725	979.093	980.792	983.939	985.480	987.205	989.417	991.590
55.5	962.897	960.566	958.604	958.591	960.671	963.595	964.977	966.584	969.007	970.245
56.0	942.644	940.340	938.865	938.562	940.432	943.435	944.804	946.226	948.557	949.940
56.5	922.339	920.193	918.178	918.270	920.088	923.195	924.631	925.921	928.120	928.950
57.0	902.206	899.783	898.176	898.545	900.454	903.391	904.312	905.616	907.604	908.684
57.5	882.282	879.688	878.345	878.503	880.360	883.454	884.179	885.667	887.286	888.261
58.0	862.451	860.226	858.777	858.935	860.700	863.031	864.769	865.664	867.007	867.837
58.5	842.620	840.184	839.197	839.315	840.856	843.766	844.925	845.702	847.150	847.585
59.0	822.934	820.933	819.734	819.787	821.512	824.198	825.107	826.055	827.174	827.543
59.5	803.393	801.391	800.259	800.417	802.050	804.789	805.816	806.527	807.435	807.791
60.0	784.339	782.140	781.073	781.047	782.798	785.353	786.419	786.762	787.960	788.105
60.5	764.916	762.862	762.006	762.361	763.863	766.417	767.128	767.800	768.669	768.590
61.0	745.875	744.005	742.886	743.268	744.756	747.363	747.969	748.443	749.022	749.259
61.5	726.755	725.346	724.266	724.438	726.228	728.388	728.875	729.402	729.981	729.771
62.0	708.175	706.384	705.818	706.029	707.596	709.610	710.598	710.993	711.125	710.927
62.5	689.727	687.936	687.291	687.686	688.752	691.162	691.873	692.400	692.360	691.926
63.0	671.318	669.540	669.027	669.382	670.817	672.845	673.583	673.649	673.991	673.649
63.5	653.304	651.223	651.026	651.447	652.751	654.779	655.358	655.490	655.608	655.161
64.0	635.079	633.394	632.749	633.368	634.803	636.581	637.186	637.489	637.107	636.581
64.5	617.145	615.657	615.301	615.762	616.526	618.738	619.462	619.489	619.278	618.817
65.0	599.539	598.209	597.998	598.170	599.315	601.185	601.541	601.936	601.725	601.185
65.5	581.815	580.327	580.353	580.538	581.802	583.790	584.027	584.343	583.922	583.211
66.0	564.749	563.274	563.274	563.446	564.446	566.395	566.685	567.264	566.645	565.934
66.5	547.302	546.274	546.090	546.564	547.657	549.619	550.027	550.291	549.580	548.948
67.0	530.512	529.235	529.288	529.933	530.842	532.856	532.896	533.291	532.580	531.961
67.5	514.197	512.749	512.683	513.170	514.276	515.975	516.699	516.594	516.080	515.093
68.0	497.513	496.276	496.486	496.657	497.856	499.423	500.042	500.028	499.423	498.698
68.5	480.988	480.118	480.132	480.685	481.672	483.503	483.937	483.964	483.424	482.410
69.0	465.186	463.777	464.080	464.488	465.752	467.622	467.846	468.188	467.543	466.542
69.5	449.226	447.962	448.252	448.739	449.753	451.689	452.531	452.057	451.491	450.648
70.0	433.333	432.082	432.806	433.188	434.202	435.874	436.374	436.743	435.979	435.044
70.5	418.137	416.780	417.531	417.900	418.703	420.823	421.126	421.192	420.625	420.020
71.0	402.822	401.387	402.203	402.559	403.626	405.627	406.035	406.167	405.495	404.863
71.5	387.666	386.428	387.442	387.692	388.733	390.668	391.261	391.024	390.721	389.904
72.0	372.891	371.864	372.444	372.839	374.287	375.854	376.434	376.460	376.131	375.301
72.5	358.091	357.222	357.854	358.499	359.644	361.554	362.199	362.120	361.751	360.856
73.0	343.540	342.763	343.658	344.040	344.923	347.214	347.727	347.833	347.372	346.661
73.5	329.648	328.634	329.477	330.109	330.899	333.203	333.651	333.875	333.493	332.887
74.0	315.676	314.728	315.755	316.177	317.428	319.482	320.180	320.443	319.917	319.271
74.5	301.745	300.981	301.863	302.666	303.746	306.037	306.591	306.472	306.393	305.682
75.0	288.458	287.615	288.656	289.314	290.368	292.448	293.225	293.396	293.238	292.672
75.5	275.159	274.434	275.527	275.988	277.358	279.320	279.965	280.294	280.149	279.991
76.0	262.070	261.227	262.425	262.767	264.190	266.033	267.139	267.429	267.547	266.889
76.5	248.981	248.757	249.994	250.192	251.614	253.892	254.485	254.801	254.932	254.669
77.0	236.629	236.063	237.274	237.854	239.342	241.422	242.357	242.713	242.765	242.555
77.5	224.383	223.988	225.002	225.634	226.832	229.150	230.084	230.624	230.769	230.493
78.0	212.426	211.820	213.032	213.677	215.152	217.206	218.286	218.497	218.958	218.799
78.5	200.496	200.219	201.286	201.905	203.604	205.776	206.619	207.343	207.515	207.172
79.0	189.224	188.421	189.962	190.541	192.016	194.360	195.189	195.650	196.335	196.019
79.5	177.715	177.544	178.532	179.282	180.915	183.088	184.115	184.484	185.129	185.089
80.0	166.654	166.193	167.563	168.248	169.828	172.053	173.212	173.660	174.397	174.595
80.5	156.041	155.830	157.068	157.713	159.280	161.598	162.388	163.217	163.889	164.152
81.0	145.572	145.164	146.626	147.179	149.035	151.313	152.051	152.920	153.552	153.921
81.5	135.393	134.998	136.420	136.960	138.606	140.898	142.188	142.833	143.650	143.860
82.0	124.991	124.977	126.413	127.348	128.796	131.193	132.022	133.036	134.221	134.366
82.5	115.615	115.707	117.011	117.643	119.026	121.448	122.239	123.397	124.569	124.503

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

<b>83.0</b>	106.371	106.226	107.622	108.294	109.782	112.099	113.139	113.982	115.141	115.339
<b>83.5</b>	97.114	96.930	98.325	99.181	100.590	102.868	104.238	104.804	105.713	106.226
<b>84.0</b>	88.318	88.397	89.556	90.043	91.583	93.967	95.310	96.232	96.982	97.417
<b>84.5</b>	79.719	79.772	80.891	81.786	82.972	85.329	86.224	86.975	88.305	88.476
<b>85.0</b>	71.147	71.252	72.582	73.030	74.663	76.625	77.810	78.547	79.535	79.930
<b>85.5</b>	63.246	63.285	64.615	64.905	66.406	68.223	69.580	70.185	71.278	71.976
<b>86.0</b>	55.253	55.503	56.478	56.701	58.295	60.270	61.547	61.982	63.404	64.444
<b>86.5</b>	47.668	47.721	48.735	49.182	50.117	52.448	53.607	54.384	56.043	56.754
<b>87.0</b>	40.176	40.176	41.334	41.914	42.638	44.982	45.930	47.115	48.945	50.052
<b>87.5</b>	33.578	33.355	34.263	34.619	35.883	38.332	39.636	40.768	41.993	43.323
<b>88.0</b>	26.757	26.389	27.284	27.850	29.602	32.104	33.486	34.487	36.014	36.857
<b>88.5</b>	20.094	20.226	21.714	22.451	24.005	26.665	27.982	28.851	30.392	31.208
<b>89.0</b>	14.524	14.722	16.565	17.461	19.120	21.490	22.623	23.781	25.019	25.757
<b>89.5</b>	9.441	10.205	12.141	12.812	14.274	16.618	17.698	18.633	19.976	20.871
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<u>70.0</u>	<u>80.0</u>	<u>90.0</u>	<u>100.0</u>	<u>110.0</u>	<u>112.5</u>	<u>120.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
<b>0.0</b>	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237
<b>0.5</b>	2397.103	2394.061	2396.826	2398.341	2398.143	2397.669	2398.288	2400.632	2402.541	2402.936
<b>1.0</b>	2396.418	2393.218	2396.339	2397.814	2397.814	2397.076	2398.354	2400.566	2402.172	2402.752
<b>1.5</b>	2395.417	2392.296	2395.588	2397.300	2397.366	2396.734	2397.682	2399.710	2401.830	2402.028
<b>2.0</b>	2394.456	2391.085	2394.337	2396.299	2396.023	2395.733	2396.708	2398.894	2400.803	2401.053
<b>2.5</b>	2392.810	2390.071	2393.271	2394.943	2394.811	2394.482	2395.654	2397.682	2399.684	2400.158
<b>3.0</b>	2391.467	2388.846	2391.901	2393.626	2393.863	2393.244	2394.166	2396.339	2398.235	2398.815
<b>3.5</b>	2390.111	2386.990	2390.400	2392.283	2392.310	2391.678	2392.691	2395.088	2397.248	2397.432
<b>4.0</b>	2387.977	2385.146	2388.465	2390.255	2390.611	2390.018	2390.835	2393.192	2395.035	2395.918
<b>4.5</b>	2385.673	2382.894	2386.015	2388.201	2388.148	2387.925	2388.873	2391.388	2393.521	2393.890
<b>5.0</b>	2383.105	2380.616	2383.658	2385.923	2386.015	2385.923	2386.924	2389.294	2391.572	2391.598
<b>5.5</b>	2380.366	2377.930	2380.801	2383.434	2383.658	2383.342	2384.448	2386.371	2388.820	2389.110
<b>6.0</b>	2377.680	2374.809	2378.272	2380.827	2381.064	2380.788	2381.459	2384.040	2386.305	2386.700
<b>6.5</b>	2374.177	2371.359	2375.270	2377.548	2377.970	2377.614	2378.430	2380.972	2383.316	2383.553
<b>7.0</b>	2370.635	2368.291	2371.781	2374.546	2374.809	2374.520	2375.507	2377.772	2379.444	2380.564
<b>7.5</b>	2367.014	2364.815	2368.146	2370.951	2371.175	2370.806	2371.991	2374.506	2376.455	2376.929
<b>8.0</b>	2363.616	2360.614	2364.012	2367.027	2367.554	2367.264	2368.317	2370.859	2373.111	2374.230
<b>8.5</b>	2359.245	2356.611	2360.338	2363.393	2363.221	2363.366	2364.512	2366.474	2368.897	2369.779
<b>9.0</b>	2354.728	2352.332	2355.479	2358.639	2359.297	2358.955	2360.206	2362.787	2364.946	2365.407
<b>9.5</b>	2350.132	2347.486	2351.146	2354.333	2354.781	2354.491	2356.242	2358.336	2360.496	2361.128
<b>10.0</b>	2345.168	2342.824	2346.406	2349.816	2350.132	2350.053	2351.120	2353.569	2355.439	2356.532
<b>10.5</b>	2340.546	2337.728	2341.376	2344.760	2345.234	2345.181	2346.511	2348.723	2350.672	2351.673
<b>11.0</b>	2335.358	2332.659	2336.016	2339.967	2340.177	2339.940	2341.178	2343.311	2345.550	2346.498
<b>11.5</b>	2329.367	2327.036	2330.552	2334.528	2334.765	2334.581	2335.661	2338.136	2340.217	2341.349
<b>12.0</b>	2323.731	2321.268	2325.100	2328.734	2328.669	2329.050	2330.051	2332.316	2334.765	2336.174
<b>12.5</b>	2317.687	2315.066	2319.227	2322.954	2322.980	2323.191	2323.941	2326.825	2328.958	2330.091
<b>13.0</b>	2311.419	2308.759	2312.670	2316.844	2316.910	2316.580	2317.976	2320.610	2322.756	2323.836
<b>13.5</b>	2304.374	2302.346	2306.309	2310.102	2310.497	2310.484	2311.998	2314.026	2316.541	2317.436
<b>14.0</b>	2297.948	2295.472	2299.278	2303.518	2303.584	2303.821	2305.269	2307.718	2310.181	2311.050
<b>14.5</b>	2290.758	2288.572	2292.430	2296.684	2296.670	2296.670	2298.646	2301.134	2302.938	2304.347
<b>15.0</b>	2283.437	2281.093	2285.148	2289.283	2289.612	2289.415	2291.153	2293.997	2295.762	2297.158
<b>15.5</b>	2276.128	2273.732	2277.366	2282.054	2282.238	2282.502	2283.897	2286.386	2288.546	2289.797
<b>16.0</b>	2267.925	2265.739	2269.900	2274.114	2274.588	2274.930	2276.326	2279.236	2281.093	2282.330
<b>16.5</b>	2260.287	2257.877	2262.276	2266.516	2266.621	2267.240	2268.386	2271.414	2272.928	2274.522
<b>17.0</b>	2251.399	2249.700	2253.756	2258.259	2258.786	2258.786	2260.537	2263.092	2265.146	2266.516
<b>17.5</b>	2242.629	2241.022	2245.091	2249.845	2249.963	2250.122	2251.688	2254.954	2256.811	2258.088
<b>18.0</b>	2233.767	2232.371	2236.163	2241.022	2241.391	2241.786	2243.182	2246.276	2247.857	2249.147

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

18.5	2224.786	2223.206	2227.288	2231.989	2232.661	2232.648	2234.162	2237.322	2239.284	2240.074
19.0	2215.318	2213.896	2217.992	2223.180	2223.180	2223.733	2224.852	2227.723	2229.816	2231.291
19.5	2205.759	2204.837	2208.339	2213.330	2214.318	2214.265	2215.700	2218.848	2220.217	2221.560
20.0	2196.120	2194.711	2198.700	2203.954	2204.244	2204.889	2206.259	2209.130	2210.512	2212.119
20.5	2186.204	2184.532	2188.903	2193.920	2194.276	2194.645	2195.883	2198.832	2200.373	2202.085
21.0	2175.525	2174.419	2178.382	2183.979	2184.479	2184.505	2186.112	2188.745	2190.642	2191.893
21.5	2165.241	2164.161	2168.322	2173.339	2173.721	2174.103	2175.577	2178.264	2180.199	2181.450
22.0	2154.285	2153.205	2157.458	2163.028	2163.213	2163.779	2164.753	2167.624	2169.125	2170.732
22.5	2143.092	2142.447	2146.726	2151.691	2152.296	2152.810	2154.061	2156.695	2158.446	2159.104
23.0	2131.544	2131.162	2135.652	2140.564	2141.262	2141.788	2142.855	2145.133	2146.542	2147.674
23.5	2120.127	2119.732	2123.946	2129.384	2129.542	2130.148	2131.412	2133.822	2135.376	2136.745
24.0	2108.328	2108.091	2112.542	2117.665	2117.809	2118.744	2119.416	2122.221	2123.393	2124.828
24.5	2095.951	2096.148	2100.401	2105.669	2106.406	2106.393	2108.118	2110.251	2111.383	2112.674
25.0	2083.665	2083.823	2088.497	2093.633	2094.331	2094.476	2095.964	2097.768	2099.216	2100.441
25.5	2071.392	2071.392	2076.199	2081.584	2081.637	2082.374	2083.415	2085.337	2086.746	2087.879
26.0	2058.790	2058.725	2063.689	2068.798	2069.417	2069.759	2071.037	2072.775	2073.683	2075.027
26.5	2045.728	2045.741	2051.021	2055.999	2056.710	2057.118	2058.027	2059.607	2060.529	2061.766
27.0	2032.560	2033.034	2037.788	2042.739	2043.660	2043.595	2044.938	2046.110	2047.611	2048.124
27.5	2018.905	2019.602	2024.620	2029.887	2030.532	2030.914	2031.757	2032.863	2034.074	2035.049
28.0	2005.091	2005.816	2010.991	2016.205	2016.561	2016.758	2018.101	2019.115	2019.971	2021.130
28.5	1990.962	1992.147	1997.230	2002.392	2002.945	2003.182	2004.407	2004.881	2006.132	2006.909
29.0	1977.083	1977.978	1983.641	1988.526	1989.119	1989.263	1990.291	1990.830	1992.002	1992.582
29.5	1962.756	1963.941	1968.945	1974.344	1974.660	1975.345	1975.924	1976.464	1977.320	1978.189
30.0	1947.995	1949.167	1954.711	1959.622	1960.663	1960.689	1961.532	1961.663	1962.388	1962.993
30.5	1933.168	1935.038	1940.371	1945.230	1945.796	1946.191	1946.481	1946.599	1947.758	1948.153
31.0	1917.985	1919.763	1925.030	1930.416	1930.982	1931.522	1931.548	1931.311	1932.180	1932.588
31.5	1902.697	1904.580	1909.953	1915.022	1915.918	1915.984	1916.550	1916.181	1916.602	1917.116
32.0	1887.304	1889.200	1894.717	1899.905	1900.906	1900.709	1901.011	1900.406	1901.104	1901.420
32.5	1871.515	1873.727	1879.232	1884.565	1884.881	1885.105	1884.973	1884.380	1884.775	1885.236
33.0	1855.845	1858.084	1863.470	1868.513	1869.342	1869.184	1869.237	1868.487	1868.974	1869.079
33.5	1839.359	1842.045	1847.826	1852.566	1853.515	1853.264	1853.040	1852.171	1852.606	1852.724
34.0	1822.570	1825.677	1831.313	1836.488	1837.094	1837.226	1836.844	1835.817	1835.869	1836.212
34.5	1806.255	1809.217	1814.748	1820.041	1820.766	1820.568	1820.476	1818.817	1819.344	1819.212
35.0	1789.479	1792.507	1798.301	1803.384	1804.069	1803.753	1803.595	1802.014	1802.489	1801.922
35.5	1771.965	1775.757	1781.446	1786.384	1787.477	1786.779	1786.621	1784.633	1784.738	1784.896
36.0	1755.044	1758.626	1764.117	1769.397	1770.095	1770.029	1769.516	1767.699	1767.633	1767.501
36.5	1737.491	1741.428	1747.051	1751.831	1752.529	1752.503	1752.016	1749.830	1749.988	1749.764
37.0	1719.649	1723.454	1729.367	1734.489	1735.161	1734.884	1734.160	1732.106	1732.145	1731.908
37.5	1701.661	1706.204	1711.735	1716.738	1717.055	1717.436	1716.580	1714.276	1713.960	1713.986
38.0	1683.660	1687.914	1693.431	1698.580	1699.409	1699.567	1698.343	1696.223	1695.907	1695.749
38.5	1665.291	1669.808	1675.404	1680.434	1681.303	1681.369	1680.237	1677.722	1677.406	1677.234
39.0	1646.645	1651.280	1657.311	1662.144	1663.132	1663.066	1661.749	1659.418	1659.023	1658.865
39.5	1628.421	1632.779	1638.718	1643.643	1644.354	1644.473	1643.353	1640.627	1640.246	1640.259
40.0	1609.327	1614.028	1619.756	1624.760	1625.458	1625.339	1624.707	1621.863	1621.481	1620.770
40.5	1590.115	1595.066	1600.965	1605.996	1606.720	1606.443	1605.311	1602.611	1602.177	1601.966
41.0	1571.298	1575.907	1582.162	1586.797	1587.666	1587.811	1586.336	1583.373	1583.281	1582.978
41.5	1551.664	1556.602	1562.528	1567.308	1568.559	1568.256	1566.900	1564.543	1563.779	1563.252
42.0	1532.334	1537.456	1543.145	1547.912	1548.781	1548.833	1547.451	1545.186	1544.225	1543.764
42.5	1512.806	1517.493	1523.524	1527.778	1529.450	1529.279	1527.712	1525.170	1524.591	1524.156
43.0	1493.080	1498.058	1503.588	1508.394	1509.461	1509.632	1508.039	1505.221	1504.694	1504.404
43.5	1472.999	1477.950	1483.507	1488.511	1489.380	1489.498	1488.340	1485.653	1485.061	1484.442
44.0	1452.878	1457.632	1463.834	1468.311	1469.733	1469.470	1468.140	1465.849	1465.019	1464.505
44.5	1432.428	1437.353	1443.450	1447.835	1449.059	1449.336	1447.914	1445.715	1444.780	1444.306
45.0	1411.873	1417.166	1422.710	1427.622	1429.255	1429.136	1427.596	1425.528	1424.527	1424.040
45.5	1391.476	1396.598	1402.339	1406.843	1408.607	1408.581	1407.501	1405.012	1404.486	1403.406
46.0	1370.802	1375.753	1381.587	1386.156	1387.710	1387.855	1386.841	1384.549	1383.641	1383.219

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

46.5	1350.155	1355.093	1360.860	1365.311	1367.194	1367.260	1366.285	1364.099	1363.349	1362.941
47.0	1329.678	1334.379	1339.923	1344.361	1346.428	1346.533	1345.730	1343.610	1342.912	1342.359
47.5	1308.346	1313.073	1318.867	1323.503	1325.451	1325.254	1324.793	1322.910	1321.936	1321.475
48.0	1287.501	1292.426	1297.812	1302.592	1304.159	1303.909	1303.711	1301.999	1301.604	1300.985
48.5	1266.538	1271.357	1276.427	1281.009	1283.169	1283.366	1282.761	1281.470	1280.891	1280.285
49.0	1245.232	1250.249	1255.161	1259.862	1261.876	1262.350	1261.876	1260.204	1259.704	1259.322
49.5	1224.413	1228.838	1233.828	1238.543	1240.623	1241.110	1240.873	1239.398	1239.214	1238.516
50.0	1203.015	1207.585	1212.707	1217.158	1219.502	1219.818	1219.646	1218.580	1218.145	1217.908
50.5	1181.802	1186.226	1191.269	1195.905	1197.998	1198.288	1198.512	1197.801	1197.472	1196.734
51.0	1160.430	1164.947	1169.924	1174.757	1176.785	1177.298	1177.311	1176.771	1176.627	1175.995
51.5	1139.361	1143.456	1148.618	1153.359	1155.242	1155.795	1156.295	1155.545	1155.716	1155.229
52.0	1118.174	1122.164	1126.838	1131.513	1134.028	1134.344	1135.134	1134.858	1134.989	1134.213
52.5	1097.237	1100.766	1105.493	1110.128	1112.433	1112.907	1114.065	1113.986	1113.868	1113.618
53.0	1075.891	1079.592	1084.161	1088.704	1091.338	1091.798	1092.931	1092.786	1093.207	1092.694
53.5	1054.625	1058.180	1062.671	1067.056	1069.834	1070.624	1071.493	1071.862	1071.967	1071.888
54.0	1033.332	1036.888	1041.325	1045.737	1048.739	1049.200	1050.648	1051.109	1051.359	1051.386
54.5	1012.619	1015.832	1020.257	1024.813	1027.618	1028.315	1029.632	1030.198	1030.554	1030.607
55.0	991.327	994.289	998.766	1003.059	1006.180	1006.983	1008.484	1009.433	1009.933	1009.683
55.5	970.719	973.616	977.829	982.333	985.032	986.099	987.732	988.890	989.378	989.602
56.0	949.913	952.731	956.787	961.053	964.266	965.096	967.058	968.125	968.704	968.980
56.5	929.016	931.715	935.626	939.892	943.250	944.027	946.068	947.556	948.478	948.596
57.0	908.421	911.015	914.860	919.179	922.471	923.235	925.447	927.198	927.883	928.344
57.5	887.931	890.512	894.384	898.281	902.153	902.482	904.997	906.788	907.789	908.092
58.0	867.508	869.944	873.539	877.581	881.308	881.769	884.600	886.641	887.800	887.945
58.5	847.585	849.692	853.273	857.303	860.713	861.911	863.979	866.520	867.416	868.074
59.0	827.451	829.386	832.705	836.721	840.408	841.290	844.319	846.597	847.809	848.388
59.5	807.343	809.068	812.650	816.600	820.248	821.117	824.119	826.964	827.859	828.570
60.0	787.683	789.514	792.674	796.506	800.246	801.404	804.130	807.343	808.226	808.963
60.5	768.063	769.775	772.975	776.833	780.388	781.508	784.523	787.710	788.776	789.435
61.0	748.627	750.234	753.341	756.804	760.926	761.756	764.521	767.892	769.261	770.065
61.5	729.560	730.982	733.866	737.711	741.227	742.267	745.704	748.890	750.405	751.221
62.0	710.427	711.915	714.720	718.433	722.054	722.923	726.307	729.889	731.548	731.904
62.5	691.807	692.703	695.652	698.984	703.026	703.974	707.332	710.558	712.402	713.245
63.0	673.174	674.267	676.848	680.140	683.999	685.131	688.199	692.334	693.980	694.401
63.5	654.805	655.766	658.202	661.336	665.234	666.485	669.672	673.583	674.979	675.953
64.0	636.093	637.107	639.478	643.283	646.878	647.747	651.447	655.148	656.649	657.755
64.5	618.343	619.173	621.569	624.677	628.443	629.641	632.986	636.844	638.701	639.596
65.0	600.237	601.198	603.805	606.755	610.640	611.667	615.130	619.120	620.608	622.069
65.5	582.618	583.435	585.752	588.860	592.573	593.548	597.077	601.238	602.844	603.634
66.0	565.631	566.040	567.989	571.320	575.126	575.995	579.590	583.764	585.239	586.358
66.5	548.355	548.790	550.817	553.833	557.573	558.666	562.247	566.329	568.002	569.121
67.0	531.500	532.053	533.936	536.504	540.349	541.679	544.931	549.053	550.501	551.594
67.5	514.935	514.987	516.949	519.622	523.217	524.653	527.879	532.316	533.502	534.805
68.0	498.330	498.646	500.634	503.189	506.849	507.798	511.313	515.369	517.318	518.108
68.5	481.936	482.528	484.082	486.689	490.192	491.232	494.735	498.778	500.213	501.385
69.0	466.134	466.160	467.820	470.453	474.219	475.128	478.591	482.581	483.792	485.162
69.5	450.556	450.201	452.031	454.704	458.246	459.102	462.500	466.253	468.017	468.952
70.0	434.807	434.794	436.638	438.824	442.181	443.288	446.751	450.425	451.899	453.071
70.5	419.322	419.611	421.060	423.588	426.920	427.657	430.896	434.584	436.361	437.415
71.0	404.337	404.560	405.930	408.406	411.540	412.448	415.727	419.322	420.981	421.705
71.5	389.325	389.483	391.327	393.434	396.594	397.292	400.492	404.021	405.456	406.470
72.0	374.946	374.867	376.499	378.593	381.780	382.583	385.454	388.930	390.602	391.432
72.5	360.395	360.395	362.080	363.990	367.414	367.888	371.061	374.643	375.828	376.486
73.0	346.147	346.279	347.899	349.953	353.034	353.745	356.510	359.513	361.040	362.133
73.5	332.650	332.755	333.940	335.982	339.102	339.616	342.645	345.541	347.043	347.780
74.0	318.942	318.863	320.075	322.247	324.868	325.539	328.515	331.676	332.532	333.506

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

74.5	305.287	305.603	306.801	308.895	311.581	312.121	314.610	317.612	318.784	319.482
75.0	292.422	292.553	293.396	295.687	298.150	298.993	301.337	304.023	305.366	306.011
75.5	279.570	279.570	280.952	282.440	284.903	285.983	288.037	290.894	291.632	292.448
76.0	266.573	266.692	268.035	269.931	271.972	272.643	275.040	278.095	278.701	279.227
76.5	254.340	254.406	255.946	257.342	259.884	260.147	262.333	264.861	265.967	266.231
77.0	242.225	242.383	243.489	245.175	247.453	247.953	250.021	252.325	253.339	253.576
77.5	230.150	230.098	231.678	233.087	235.510	235.852	237.919	240.158	240.593	241.027
78.0	218.562	218.839	219.774	221.525	223.290	224.014	226.384	227.833	228.544	228.873
78.5	207.014	207.462	208.528	210.095	212.136	212.558	214.415	216.179	216.745	217.022
79.0	195.927	196.243	197.533	198.705	200.601	201.075	202.761	204.460	204.960	205.171
79.5	185.024	185.550	186.538	187.684	189.501	189.962	191.792	193.135	193.622	193.925
80.0	174.252	174.634	175.780	177.004	178.835	179.137	180.849	182.127	182.245	182.364
80.5	164.007	164.350	165.416	166.641	168.195	168.722	170.117	171.237	171.526	171.461
81.0	153.802	154.382	155.343	156.633	158.003	158.056	159.688	160.847	161.440	160.860
81.5	143.992	144.400	145.467	146.678	147.956	148.219	149.457	150.379	150.550	150.431
82.0	134.274	134.564	135.222	136.671	137.935	138.304	139.475	140.266	140.568	140.358
82.5	124.490	125.175	125.926	127.229	128.507	128.849	129.915	130.442	130.508	130.324
83.0	115.207	115.668	116.879	117.972	118.999	119.249	120.408	121.014	121.132	120.830
83.5	106.016	106.503	107.635	108.623	109.637	110.124	111.059	111.651	111.362	111.270
84.0	97.074	97.575	98.576	99.484	100.880	100.617	101.933	102.539	102.500	101.933
84.5	88.515	89.095	90.003	90.938	91.886	92.453	93.150	93.545	93.322	93.308
85.0	79.943	80.720	81.260	82.563	83.248	83.551	84.302	84.512	84.394	84.223
85.5	72.121	72.503	73.596	74.386	74.913	75.110	75.584	76.282	75.900	75.690
86.0	64.392	65.010	65.893	66.696	67.407	67.486	67.631	67.894	67.565	67.486
86.5	57.004	57.834	58.821	59.454	59.967	59.914	60.112	59.651	59.230	58.979
87.0	50.236	51.079	51.829	52.395	52.738	52.777	52.725	52.422	51.632	51.039
87.5	43.257	44.258	45.166	45.667	45.785	46.062	45.890	45.469	44.692	44.007
88.0	36.923	38.016	38.938	39.530	39.583	39.333	39.372	38.806	38.503	37.463
88.5	31.234	31.867	32.696	33.052	33.592	33.552	33.644	33.012	32.275	31.498
89.0	26.152	26.599	27.166	27.521	27.903	28.087	28.074	27.468	27.047	26.059
89.5	20.845	21.266	21.859	22.636	23.004	23.123	22.952	22.017	21.635	21.056
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>150.0</u>	<u>157.5</u>	<u>160.0</u>	<u>170.0</u>	<u>180.0</u>	<u>190.0</u>	<u>200.0</u>	<u>202.5</u>	<u>210.0</u>	<u>220.0</u>
0.0	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237
0.5	2401.922	2402.949	2403.292	2405.306	2408.506	2407.045	2403.832	2403.358	2405.241	2406.360
1.0	2402.475	2402.844	2402.752	2405.135	2408.743	2406.610	2403.344	2402.949	2404.714	2406.162
1.5	2401.514	2402.133	2402.686	2404.253	2408.217	2406.650	2403.028	2402.344	2404.371	2405.662
2.0	2400.816	2401.448	2401.633	2403.371	2407.242	2405.873	2402.120	2401.725	2403.331	2404.898
2.5	2399.631	2400.619	2400.645	2402.515	2406.320	2404.358	2401.356	2400.658	2402.581	2404.029
3.0	2398.024	2399.591	2399.275	2400.842	2405.385	2403.450	2400.105	2399.486	2401.343	2402.725
3.5	2397.129	2397.919	2398.499	2399.697	2404.042	2402.660	2399.223	2398.209	2399.631	2401.343
4.0	2395.167	2396.444	2396.879	2397.972	2402.186	2400.461	2397.261	2396.405	2398.235	2399.828
4.5	2393.007	2394.272	2394.403	2395.799	2400.632	2398.406	2395.628	2394.864	2396.326	2397.616
5.0	2391.230	2391.994	2392.652	2394.074	2398.130	2396.800	2393.179	2392.481	2394.008	2395.404
5.5	2388.636	2390.045	2389.966	2391.809	2395.957	2394.311	2390.940	2390.295	2391.915	2393.350
6.0	2386.239	2386.937	2387.740	2388.978	2393.205	2391.954	2388.227	2387.451	2389.162	2390.743
6.5	2383.500	2383.869	2384.435	2385.910	2390.650	2389.347	2385.541	2385.001	2386.516	2387.609
7.0	2380.709	2381.143	2380.630	2382.908	2387.161	2386.094	2382.592	2381.683	2383.316	2384.488
7.5	2376.679	2377.351	2377.996	2379.405	2384.106	2382.789	2378.931	2378.681	2380.076	2381.209
8.0	2373.229	2374.006	2374.599	2375.494	2380.248	2379.352	2375.744	2375.086	2376.455	2378.088
8.5	2369.226	2370.227	2370.661	2372.255	2376.324	2375.086	2371.820	2371.386	2372.676	2373.598
9.0	2365.197	2366.474	2366.566	2368.199	2372.505	2371.675	2367.975	2367.277	2369.200	2369.647
9.5	2361.194	2361.957	2362.668	2363.156	2368.436	2367.053	2363.182	2363.024	2364.459	2365.302



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

10.0	2355.953	2357.283	2357.691	2358.968	2363.959	2362.971	2358.705	2358.125	2360.193	2360.825
10.5	2351.462	2352.634	2352.542	2354.083	2358.758	2357.967	2354.043	2353.293	2355.228	2356.084
11.0	2346.669	2347.512	2347.394	2348.921	2353.951	2352.634	2348.855	2348.052	2350.251	2351.225
11.5	2341.547	2341.863	2342.311	2343.298	2348.868	2347.525	2343.812	2343.311	2345.036	2346.143
12.0	2335.990	2336.662	2337.162	2337.504	2342.679	2341.547	2338.005	2337.913	2339.585	2340.296
12.5	2330.117	2330.552	2331.697	2332.026	2337.531	2336.095	2332.487	2331.895	2333.751	2334.436
13.0	2324.468	2324.758	2325.311	2325.561	2331.276	2330.130	2325.838	2325.666	2327.576	2328.524
13.5	2317.924	2318.556	2319.109	2319.319	2324.679	2323.349	2319.728	2319.412	2321.097	2322.401
14.0	2311.142	2312.090	2312.670	2312.880	2317.937	2316.817	2313.670	2312.749	2314.711	2316.067
14.5	2304.505	2304.821	2305.611	2306.217	2311.142	2310.523	2306.494	2306.033	2307.903	2308.982
15.0	2296.934	2298.172	2298.435	2298.922	2304.255	2303.307	2299.185	2299.001	2300.871	2302.280
15.5	2289.889	2290.402	2290.574	2291.667	2296.828	2296.394	2292.022	2291.588	2293.563	2295.064
16.0	2282.528	2282.897	2283.055	2283.924	2288.730	2288.164	2284.582	2283.937	2286.044	2287.110
16.5	2274.561	2274.904	2275.325	2276.010	2281.106	2280.382	2276.721	2276.010	2278.459	2279.065
17.0	2266.582	2266.819	2267.306	2267.977	2273.205	2272.231	2268.596	2267.925	2270.137	2271.203
17.5	2258.193	2258.312	2258.733	2259.300	2264.554	2263.566	2259.892	2259.721	2261.617	2263.092
18.0	2249.345	2249.634	2250.201	2250.793	2255.744	2255.336	2251.030	2250.912	2253.097	2254.809
18.5	2240.917	2240.509	2241.325	2241.536	2247.053	2246.026	2242.366	2241.997	2244.459	2245.513
19.0	2231.383	2231.647	2232.095	2232.279	2237.322	2236.690	2232.529	2233.069	2235.070	2236.440
19.5	2221.850	2222.416	2222.758	2222.798	2228.012	2227.525	2223.654	2223.746	2225.497	2227.012
20.0	2212.580	2212.738	2213.185	2212.606	2218.413	2217.636	2213.765	2213.751	2215.990	2217.518
20.5	2202.401	2202.572	2203.046	2202.822	2208.511	2208.023	2204.442	2203.862	2206.114	2207.747
21.0	2191.972	2191.958	2192.999	2192.735	2198.253	2197.739	2194.237	2193.894	2196.067	2197.831
21.5	2181.661	2181.371	2182.188	2182.069	2187.468	2186.955	2183.505	2183.623	2185.374	2187.508
22.0	2170.824	2170.679	2171.219	2170.837	2176.289	2176.223	2172.457	2172.417	2174.735	2176.499
22.5	2160.342	2160.158	2160.184	2160.131	2165.227	2164.806	2161.896	2161.369	2163.884	2165.491
23.0	2148.688	2148.860	2148.820	2148.978	2154.298	2153.969	2149.979	2150.097	2152.520	2154.588
23.5	2137.351	2137.285	2137.114	2136.956	2142.868	2142.289	2138.378	2138.773	2141.169	2143.237
24.0	2125.394	2125.249	2125.368	2125.249	2130.977	2130.306	2126.672	2126.672	2129.371	2131.254
24.5	2113.148	2113.029	2113.583	2113.095	2118.362	2118.692	2114.702	2114.557	2117.493	2119.534
25.0	2100.875	2100.638	2100.954	2100.283	2106.208	2106.143	2102.205	2102.205	2105.274	2107.446
25.5	2088.274	2088.023	2088.247	2088.260	2093.449	2093.488	2089.683	2090.130	2092.395	2095.081
26.0	2075.382	2075.237	2075.751	2075.566	2080.821	2080.913	2076.778	2076.594	2079.978	2081.966
26.5	2062.135	2062.069	2062.267	2062.135	2067.416	2067.336	2063.794	2063.965	2066.902	2069.141
27.0	2048.835	2048.348	2048.941	2049.033	2054.353	2053.984	2050.574	2050.732	2053.655	2055.880
27.5	2035.246	2035.022	2035.549	2035.351	2040.605	2040.461	2037.063	2037.419	2040.171	2042.344
28.0	2021.143	2021.301	2021.433	2021.183	2026.753	2026.792	2023.250	2023.369	2026.239	2028.465
28.5	2007.330	2007.172	2007.541	2006.909	2012.874	2012.505	2009.647	2009.358	2012.373	2014.809
29.0	1992.924	1992.727	1993.148	1992.779	1998.442	1998.060	1995.268	1995.176	1997.981	2000.417
29.5	1978.229	1978.360	1978.452	1978.084	1983.996	1983.786	1980.520	1980.770	1983.904	1985.919
30.0	1963.020	1963.257	1963.823	1963.599	1969.274	1969.156	1965.930	1965.811	1968.919	1971.473
30.5	1947.982	1948.548	1948.495	1948.535	1954.487	1954.026	1951.247	1951.129	1953.894	1956.396
31.0	1932.588	1932.904	1933.089	1933.036	1938.962	1938.909	1935.775	1935.577	1938.409	1940.805
31.5	1917.103	1917.656	1917.643	1917.774	1923.555	1923.239	1920.368	1920.316	1923.107	1925.583
32.0	1901.657	1901.749	1902.315	1902.302	1907.793	1907.951	1904.462	1904.922	1907.609	1910.216
32.5	1885.473	1885.723	1886.066	1886.303	1891.952	1892.044	1888.857	1888.871	1891.465	1894.243
33.0	1869.329	1869.777	1869.948	1870.172	1875.518	1875.584	1872.819	1872.503	1875.545	1877.862
33.5	1853.093	1853.343	1853.580	1854.054	1859.256	1859.506	1856.332	1856.109	1859.071	1861.758
34.0	1835.975	1836.541	1837.120	1837.278	1842.783	1842.769	1839.741	1839.609	1842.546	1845.271
34.5	1819.159	1819.712	1820.068	1820.660	1825.835	1825.954	1823.017	1822.873	1826.138	1827.903
35.0	1802.317	1802.976	1803.318	1803.226	1809.152	1808.967	1806.268	1805.833	1809.125	1811.324
35.5	1784.646	1785.331	1785.699	1785.936	1791.757	1791.599	1788.623	1788.767	1791.520	1793.890
36.0	1767.462	1768.094	1768.318	1768.634	1774.125	1774.283	1771.228	1771.096	1773.993	1776.587
36.5	1749.777	1750.238	1750.751	1751.384	1756.638	1756.585	1753.885	1753.530	1756.414	1758.679
37.0	1731.776	1732.356	1732.724	1733.133	1738.453	1738.347	1736.109	1735.437	1738.703	1741.126
37.5	1713.815	1714.329	1714.697	1715.237	1720.399	1720.636	1717.647	1717.858	1720.860	1723.125

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

38.0	1695.525	1696.275	1696.275	1697.210	1702.122	1702.675	1699.607	1699.673	1702.596	1704.584
38.5	1676.997	1679.473	1677.998	1678.749	1683.700	1683.818	1681.066	1680.843	1683.621	1686.676
39.0	1658.681	1659.563	1659.445	1660.037	1665.120	1664.830	1662.684	1662.276	1665.238	1667.951
39.5	1639.719	1640.114	1640.825	1641.102	1646.224	1646.263	1643.643	1643.801	1646.145	1649.213
40.0	1620.573	1621.270	1621.560	1622.232	1627.143	1627.565	1625.102	1624.813	1627.473	1629.975
40.5	1601.624	1601.953	1602.743	1603.059	1608.195	1608.050	1605.772	1605.732	1608.287	1610.934
41.0	1582.359	1582.912	1583.452	1584.045	1588.680	1588.943	1586.494	1586.323	1589.075	1591.577
41.5	1562.739	1563.384	1563.753	1564.385	1568.967	1569.310	1566.689	1566.742	1569.533	1572.088
42.0	1542.881	1543.816	1543.777	1544.725	1549.426	1549.544	1547.398	1547.477	1550.150	1552.718
42.5	1523.380	1524.012	1524.565	1525.263	1529.766	1530.174	1527.554	1527.646	1530.345	1532.795
43.0	1503.193	1504.167	1504.536	1505.102	1509.632	1510.027	1507.394	1507.776	1510.133	1512.779
43.5	1483.349	1484.297	1484.639	1485.324	1489.380	1490.223	1487.510	1487.602	1490.262	1493.001
44.0	1463.478	1464.308	1464.663	1465.190	1469.101	1469.983	1467.797	1467.521	1470.457	1472.959
44.5	1443.423	1443.898	1444.161	1444.622	1449.165	1449.823	1447.282	1447.005	1450.073	1452.509
45.0	1423.013	1423.461	1423.856	1424.343	1428.728	1429.149	1427.108	1427.227	1429.558	1432.297
45.5	1402.813	1403.274	1403.511	1404.012	1408.107	1408.818	1406.645	1406.751	1409.292	1412.123
46.0	1382.258	1382.693	1382.903	1383.601	1387.196	1388.342	1385.932	1386.195	1388.605	1391.265
46.5	1361.677	1362.453	1362.414	1363.020	1366.773	1367.721	1365.232	1365.429	1368.168	1370.552
47.0	1341.134	1341.477	1341.990	1342.293	1345.796	1346.757	1345.085	1344.729	1347.560	1350.128
47.5	1320.184	1320.645	1320.750	1321.422	1325.096	1325.794	1323.898	1323.963	1326.636	1328.717
48.0	1299.642	1300.037	1300.432	1300.827	1304.448	1305.094	1303.013	1303.487	1305.897	1308.122
48.5	1278.863	1279.232	1279.258	1279.995	1283.195	1284.183	1282.247	1282.353	1285.407	1287.304
49.0	1258.216	1257.939	1258.821	1258.913	1262.284	1263.285	1261.310	1261.481	1264.062	1266.577
49.5	1237.357	1237.094	1238.121	1238.200	1241.361	1242.322	1240.636	1240.847	1243.388	1245.364
50.0	1216.578	1216.394	1216.960	1217.447	1220.608	1220.937	1219.818	1219.791	1222.451	1224.664
50.5	1195.707	1195.378	1196.089	1196.234	1199.513	1200.250	1198.617	1198.841	1201.185	1203.371
51.0	1175.086	1174.809	1175.178	1175.270	1178.681	1179.181	1177.575	1177.720	1180.432	1182.763
51.5	1154.215	1153.793	1154.267	1154.504	1157.401	1158.244	1156.717	1157.059	1159.600	1161.536
52.0	1133.488	1132.896	1133.370	1133.554	1136.543	1137.320	1135.806	1136.109	1138.216	1140.388
52.5	1112.472	1112.051	1112.459	1112.656	1115.567	1116.212	1115.132	1115.198	1117.450	1119.517
53.0	1091.640	1091.324	1091.627	1091.970	1094.669	1095.314	1094.432	1094.313	1096.578	1098.606
53.5	1070.572	1070.282	1071.006	1071.177	1073.679	1074.496	1073.416	1073.258	1075.799	1077.603
54.0	1049.753	1049.806	1050.346	1050.306	1052.742	1053.545	1052.624	1052.847	1055.073	1056.943
54.5	1029.382	1029.316	1029.724	1029.975	1032.200	1032.924	1032.016	1032.200	1034.254	1035.940
55.0	1009.156	1008.695	1008.932	1009.222	1011.184	1011.921	1011.171	1011.316	1013.594	1015.345
55.5	988.469	988.179	988.430	988.653	990.892	991.406	990.681	990.615	993.052	994.619
56.0	968.296	967.479	968.032	968.256	970.363	970.929	970.429	970.192	972.865	974.142
56.5	947.622	947.029	947.648	947.727	950.005	950.361	949.979	949.795	951.981	953.337
57.0	927.304	926.882	927.225	927.462	929.503	930.043	929.634	929.213	931.741	933.032
57.5	907.736	907.091	907.288	907.394	909.264	909.830	908.934	909.540	911.831	912.872
58.0	887.062	886.812	887.062	887.141	889.077	889.670	889.301	889.235	891.342	892.316
58.5	867.587	867.047	867.126	867.547	869.312	869.707	869.220	869.286	871.735	872.459
59.0	847.861	847.400	847.440	847.888	849.705	849.639	849.415	849.731	851.851	852.707
59.5	828.004	827.833	827.609	828.136	829.689	830.071	829.624	829.624	831.717	832.692
60.0	808.397	808.278	808.199	808.489	810.003	810.648	810.003	810.122	812.255	813.005
60.5	789.145	788.776	788.842	789.053	790.567	791.133	790.870	791.160	792.740	793.609
61.0	769.880	769.406	769.670	769.749	771.171	771.658	771.381	771.381	773.541	774.186
61.5	750.787	750.576	750.444	750.918	751.761	752.683	751.985	752.262	754.263	754.987
62.0	732.022	731.509	731.772	731.917	732.681	733.537	733.497	733.550	735.222	735.604
62.5	713.021	712.850	712.613	712.599	713.995	714.456	714.180	714.693	716.405	717.103
63.0	694.454	693.954	694.322	694.098	694.941	696.100	695.494	695.968	697.759	698.246
63.5	676.006	675.466	675.690	675.650	676.690	677.309	677.362	677.494	679.126	679.890
64.0	657.570	657.505	657.610	657.215	658.426	658.887	658.769	658.821	660.915	661.363
64.5	639.636	639.069	639.201	639.096	640.215	640.571	641.097	640.913	642.533	643.309
65.0	621.411	621.240	621.214	621.214	622.188	622.675	622.820	623.162	624.440	625.072
65.5	603.779	603.424	603.555	603.279	604.148	604.688	605.135	605.267	606.518	607.321

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

66.0	586.450	585.989	586.292	585.568	586.450	587.003	587.569	587.490	589.268	589.426
66.5	569.108	568.463	568.831	568.305	569.160	569.832	570.016	570.201	571.544	572.229
67.0	551.700	551.265	551.542	551.147	552.003	552.424	552.779	552.700	554.386	554.847
67.5	535.134	534.199	534.410	534.028	534.660	535.477	535.859	536.148	537.307	537.807
68.0	518.279	517.384	517.818	517.068	517.608	518.516	519.056	518.951	520.676	520.939
68.5	501.622	500.924	500.911	500.779	501.135	501.701	502.254	502.307	503.768	504.756
69.0	485.188	484.319	484.319	484.108	484.701	485.359	486.373	485.939	487.572	488.019
69.5	469.057	468.452	468.294	467.846	468.544	468.702	469.979	469.953	471.243	472.020
70.0	452.992	452.268	452.202	451.965	452.426	452.703	453.545	453.756	454.968	455.784
70.5	437.428	436.651	436.348	435.874	436.598	437.033	437.994	437.810	439.390	440.140
71.0	421.837	420.994	421.165	420.362	420.889	421.257	422.232	422.443	423.720	424.694
71.5	406.628	405.509	405.522	404.890	405.021	406.088	406.760	406.983	408.353	409.077
72.0	391.195	390.352	390.668	389.746	390.076	390.853	391.511	391.669	393.052	394.237
72.5	376.526	375.591	375.459	374.893	375.222	375.841	376.578	376.513	378.422	379.094
73.0	361.830	360.922	360.672	359.802	360.079	360.698	361.843	361.778	363.568	364.477
73.5	347.332	346.239	346.279	345.449	345.594	346.239	347.201	347.622	349.294	350.203
74.0	333.032	331.860	331.847	331.030	331.294	332.005	332.940	333.177	334.783	335.916
74.5	319.311	318.073	317.810	316.835	317.020	317.652	319.219	318.916	320.825	321.707
75.0	305.537	304.273	304.326	303.062	303.220	303.917	305.089	305.168	306.946	307.934
75.5	291.421	290.618	290.433	289.406	289.525	290.157	291.592	291.632	293.409	294.423
76.0	278.516	277.384	277.147	276.146	276.265	276.857	277.937	278.187	279.925	280.768
76.5	265.783	264.348	264.282	262.833	263.149	263.742	264.914	265.375	266.836	268.193
77.0	253.076	251.496	251.417	249.915	249.889	250.455	252.036	252.128	254.063	255.288
77.5	240.329	238.868	238.696	237.222	237.314	238.196	239.210	239.789	241.251	242.607
78.0	227.912	226.424	226.068	224.791	224.778	225.713	227.003	227.122	228.913	230.585
78.5	215.837	214.441	214.138	212.742	212.558	213.322	215.007	215.165	216.956	218.536
79.0	203.985	202.405	202.339	200.575	200.786	201.484	202.840	203.235	205.092	206.659
79.5	192.292	191.147	190.594	189.066	188.974	189.843	191.384	191.713	193.780	195.058
80.0	181.205	179.612	179.295	177.663	177.873	178.453	179.914	180.375	182.087	183.799
80.5	170.499	168.458	168.287	166.654	166.615	167.181	168.801	169.196	170.947	172.698
81.0	159.675	157.674	157.305	155.804	155.540	156.502	157.924	158.293	160.215	161.914
81.5	149.049	147.574	147.192	145.269	145.046	145.717	147.416	147.521	149.299	151.353
82.0	138.435	136.908	136.499	134.867	134.524	135.696	136.868	137.290	139.001	140.990
82.5	128.809	127.071	126.531	124.846	124.648	125.359	127.190	127.651	129.139	130.969
83.0	119.039	117.380	116.945	115.378	114.799	115.747	117.301	117.814	119.315	121.264
83.5	109.624	107.648	107.543	105.752	105.423	106.108	107.675	108.926	109.861	111.388
84.0	100.050	98.470	98.181	96.390	95.903	96.969	98.404	98.707	100.788	102.434
84.5	91.346	89.779	89.332	87.831	87.357	87.738	89.621	90.003	91.662	93.361
85.0	82.603	80.852	80.470	78.797	78.573	79.048	80.707	81.062	82.827	84.749
85.5	74.123	72.332	72.279	70.646	70.251	70.673	72.608	72.648	74.373	76.203
86.0	65.656	63.904	63.470	61.969	61.758	62.482	64.220	63.996	65.853	67.486
86.5	57.360	55.964	55.529	54.213	53.567	54.384	55.951	56.083	57.715	59.309
87.0	49.314	47.997	47.774	46.404	46.193	46.602	47.787	47.853	49.867	51.632
87.5	41.901	40.347	39.899	39.293	38.859	39.175	40.465	40.571	42.111	44.429
88.0	35.527	33.460	33.052	31.722	31.564	32.288	33.131	33.434	35.238	37.726
88.5	29.668	27.231	26.599	25.019	24.888	25.309	26.889	27.139	29.233	31.735
89.0	23.926	21.780	21.227	19.067	18.554	19.028	21.266	21.543	23.939	26.455
89.5	18.725	16.750	16.592	14.037	12.338	13.550	16.210	16.776	18.685	21.187
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

Angles	<u>225.0</u>	<u>230.0</u>	<u>240.0</u>	<u>247.5</u>	<u>250.0</u>	<u>260.0</u>	<u>270.0</u>	<u>280.0</u>	<u>290.0</u>	<u>292.5</u>
0.0	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237
0.5	2405.043	2404.200	2402.291	2400.619	2399.618	2396.049	2396.589	2397.814	2398.222	2397.708
1.0	2404.793	2403.924	2401.725	2400.184	2398.986	2395.536	2396.484	2397.564	2397.485	2397.234

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

1.5	2404.437	2403.608	2401.277	2399.473	2398.525	2394.719	2395.509	2397.221	2396.971	2396.523
2.0	2403.726	2402.660	2400.513	2399.052	2397.669	2394.377	2394.877	2396.194	2396.010	2395.707
2.5	2402.265	2401.698	2399.552	2398.038	2396.378	2393.007	2393.758	2395.114	2394.917	2394.482
3.0	2401.633	2400.750	2398.538	2396.497	2395.588	2391.822	2392.507	2393.837	2393.705	2393.126
3.5	2399.973	2399.052	2396.892	2395.193	2393.745	2390.032	2390.848	2392.231	2392.086	2391.691
4.0	2398.275	2397.050	2394.653	2393.442	2391.836	2388.359	2389.399	2390.295	2390.071	2389.413
4.5	2396.326	2395.470	2393.284	2391.440	2389.992	2386.134	2387.464	2388.557	2388.004	2387.582
5.0	2394.298	2392.928	2391.138	2389.255	2388.083	2384.066	2384.817	2386.213	2385.936	2385.238
5.5	2391.941	2390.914	2388.781	2387.095	2385.515	2382.131	2382.513	2383.737	2383.039	2382.539
6.0	2389.255	2388.122	2386.121	2384.080	2382.855	2378.852	2379.721	2381.248	2380.340	2379.945
6.5	2386.410	2385.370	2383.000	2381.749	2379.879	2376.258	2376.758	2378.391	2377.377	2376.640
7.0	2383.342	2382.302	2379.721	2378.562	2376.903	2373.176	2373.413	2375.270	2374.678	2373.756
7.5	2379.708	2378.562	2377.008	2375.046	2373.716	2369.845	2370.477	2372.149	2371.043	2369.963
8.0	2376.218	2375.494	2373.269	2371.478	2370.174	2366.079	2366.606	2368.120	2367.343	2366.237
8.5	2372.781	2371.741	2369.476	2367.751	2366.171	2362.287	2362.524	2364.328	2363.419	2362.405
9.0	2368.252	2367.185	2365.302	2363.643	2362.287	2358.139	2358.336	2360.219	2359.008	2358.547
9.5	2364.051	2362.932	2360.825	2359.087	2358.428	2353.767	2354.320	2355.940	2355.123	2354.149
10.0	2359.534	2358.692	2356.098	2354.794	2353.411	2349.184	2348.974	2351.502	2350.462	2349.211
10.5	2354.741	2353.859	2351.660	2349.830	2348.500	2344.220	2344.483	2346.524	2345.194	2344.378
11.0	2349.751	2349.053	2346.538	2344.760	2343.417	2339.177	2339.769	2341.310	2340.217	2339.282
11.5	2344.549	2343.548	2341.455	2339.453	2337.965	2334.041	2334.489	2336.280	2334.647	2334.002
12.0	2339.190	2338.229	2335.832	2334.239	2332.672	2328.366	2328.853	2330.341	2328.985	2328.326
12.5	2333.449	2332.685	2329.972	2328.576	2327.128	2323.164	2322.954	2324.784	2323.230	2322.572
13.0	2327.194	2326.312	2324.178	2322.585	2321.268	2316.989	2317.265	2318.977	2317.212	2316.225
13.5	2321.216	2320.109	2318.029	2316.251	2314.921	2310.352	2310.931	2312.814	2310.786	2309.733
14.0	2314.776	2313.209	2311.511	2309.865	2308.614	2304.295	2304.216	2306.467	2304.387	2303.215
14.5	2307.745	2306.533	2304.900	2303.004	2301.885	2297.065	2297.658	2299.844	2297.276	2296.394
15.0	2300.989	2299.910	2297.803	2296.289	2295.209	2290.402	2290.350	2292.522	2290.271	2289.481
15.5	2293.655	2292.865	2290.587	2288.967	2287.861	2283.489	2283.344	2285.201	2282.989	2281.896
16.0	2286.189	2285.201	2283.384	2281.540	2280.118	2275.865	2275.667	2277.643	2275.496	2274.403
16.5	2278.420	2277.682	2275.760	2274.048	2272.718	2268.004	2268.004	2270.400	2267.543	2266.186
17.0	2270.321	2269.544	2267.872	2266.147	2264.896	2260.287	2260.379	2262.039	2259.339	2258.707
17.5	2261.933	2261.235	2259.642	2257.812	2256.982	2252.084	2252.084	2254.151	2251.228	2249.924
18.0	2253.795	2252.610	2251.254	2249.489	2248.331	2243.761	2243.498	2245.868	2242.668	2241.562
18.5	2244.459	2244.196	2242.721	2240.812	2239.785	2235.202	2234.794	2236.927	2233.872	2232.964
19.0	2235.531	2235.097	2233.688	2231.634	2230.686	2225.748	2225.774	2227.775	2224.813	2223.654
19.5	2226.393	2225.827	2224.378	2222.653	2221.718	2216.517	2216.556	2218.637	2215.476	2214.542
20.0	2216.846	2216.135	2214.844	2213.225	2211.987	2207.628	2206.759	2209.235	2205.798	2204.731
20.5	2206.799	2206.628	2205.482	2203.559	2202.440	2197.344	2197.120	2199.530	2195.988	2195.185
21.0	2197.107	2196.462	2195.316	2193.578	2192.643	2187.718	2187.310	2189.364	2186.428	2184.914
21.5	2186.928	2186.046	2185.058	2183.228	2182.188	2177.513	2177.237	2179.357	2175.459	2174.458
22.0	2175.801	2175.749	2174.616	2172.720	2171.456	2166.979	2166.860	2168.835	2164.780	2164.279
22.5	2165.306	2164.780	2164.187	2162.238	2161.317	2156.510	2156.010	2158.275	2154.390	2153.482
23.0	2153.890	2153.995	2152.599	2151.243	2150.321	2145.673	2145.357	2147.411	2143.132	2142.407
23.5	2143.039	2142.315	2141.736	2139.879	2138.970	2134.454	2134.059	2135.955	2131.847	2130.793
24.0	2130.780	2131.004	2129.898	2128.541	2127.725	2122.905	2122.905	2124.749	2120.390	2119.482
24.5	2119.205	2119.139	2118.152	2116.848	2115.887	2111.239	2111.225	2113.108	2108.526	2107.604
25.0	2107.117	2107.025	2106.156	2104.562	2104.352	2099.624	2099.308	2100.520	2096.385	2095.358
25.5	2094.542	2094.686	2093.633	2092.527	2091.803	2087.852	2087.009	2088.774	2084.442	2083.309
26.0	2082.150	2081.755	2081.545	2080.294	2079.346	2075.474	2074.737	2076.041	2071.247	2070.734
26.5	2068.653	2069.233	2068.627	2067.705	2066.981	2062.385	2061.819	2063.347	2058.988	2057.434
27.0	2056.065	2056.012	2055.617	2054.445	2054.287	2049.678	2049.270	2050.534	2046.018	2044.609
27.5	2042.488	2042.502	2042.383	2041.501	2041.080	2036.550	2035.852	2037.498	2032.441	2031.256
28.0	2028.649	2029.202	2028.873	2027.991	2027.503	2023.448	2022.644	2023.856	2019.023	2017.338
28.5	2014.941	2015.231	2015.231	2014.190	2013.861	2009.832	2008.963	2010.253	2005.394	2003.959
29.0	2001.180	2000.957	2001.523	2000.114	1999.916	1996.150	1995.057	1996.269	1991.528	1990.291

**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

29.5	1986.380	1986.353	1987.170	1985.985	1986.077	1982.034	1981.244	1982.008	1977.333	1975.727
30.0	1971.816	1971.776	1972.290	1971.697	1971.658	1967.536	1966.851	1967.721	1962.967	1961.097
30.5	1956.620	1956.857	1957.831	1957.410	1956.857	1952.854	1951.972	1953.302	1948.232	1946.678
31.0	1941.450	1941.819	1942.754	1942.030	1941.872	1938.382	1937.276	1938.251	1933.273	1931.364
31.5	1926.307	1926.531	1927.545	1926.794	1927.031	1923.200	1922.462	1923.081	1917.959	1916.431
32.0	1910.624	1911.059	1912.257	1911.572	1911.585	1907.767	1906.950	1907.819	1902.434	1901.064
32.5	1894.651	1895.112	1896.706	1896.047	1896.021	1892.400	1891.294	1892.031	1886.988	1885.249
33.0	1878.310	1878.784	1880.706	1880.074	1879.851	1876.677	1875.531	1876.427	1871.081	1869.066
33.5	1862.192	1862.864	1864.865	1864.102	1864.128	1861.178	1859.782	1860.178	1855.002	1853.238
34.0	1845.614	1846.114	1848.260	1847.628	1847.497	1844.745	1843.507	1844.020	1838.424	1836.686
34.5	1829.009	1829.378	1831.629	1831.208	1831.195	1828.008	1826.915	1827.468	1822.030	1820.305
35.0	1811.785	1812.457	1814.774	1814.787	1814.682	1811.693	1810.271	1810.455	1805.267	1803.371
35.5	1794.627	1795.141	1797.603	1797.511	1797.840	1794.772	1793.455	1793.600	1788.004	1786.226
36.0	1777.127	1777.785	1780.406	1780.511	1780.406	1777.746	1776.297	1776.600	1770.872	1768.831
36.5	1759.166	1760.272	1762.919	1763.169	1763.195	1760.496	1759.034	1759.100	1753.859	1751.686
37.0	1741.771	1742.258	1744.852	1745.274	1745.287	1742.706	1741.468	1741.257	1735.674	1733.449
37.5	1723.415	1724.284	1727.075	1727.642	1727.299	1725.271	1723.441	1723.322	1717.581	1716.093
38.0	1705.480	1706.204	1708.969	1709.272	1709.588	1706.928	1705.783	1705.467	1700.094	1697.869
38.5	1687.031	1687.690	1690.692	1691.140	1691.127	1688.533	1687.163	1686.979	1681.448	1679.276
39.0	1668.465	1669.255	1672.033	1672.389	1672.850	1670.466	1668.925	1668.649	1662.947	1660.893
39.5	1649.924	1650.424	1653.677	1653.769	1653.848	1652.123	1650.424	1650.411	1644.196	1642.155
40.0	1630.462	1631.528	1634.241	1634.557	1635.150	1633.095	1631.410	1631.278	1625.471	1623.443
40.5	1611.974	1612.356	1615.082	1615.858	1615.845	1614.318	1612.474	1612.382	1606.509	1604.271
41.0	1592.472	1593.051	1596.357	1596.712	1596.936	1594.750	1593.117	1592.986	1587.179	1584.966
41.5	1572.746	1573.629	1576.618	1577.092	1577.526	1575.578	1573.945	1573.378	1567.611	1565.267
42.0	1553.403	1554.193	1557.406	1557.577	1557.853	1556.115	1554.074	1553.666	1548.280	1546.015
42.5	1533.651	1534.507	1537.219	1537.601	1537.943	1536.403	1534.836	1534.177	1528.344	1526.395
43.0	1513.806	1514.254	1517.230	1517.744	1517.915	1516.572	1514.570	1514.175	1508.487	1505.945
43.5	1493.646	1494.449	1497.123	1497.649	1497.939	1496.333	1494.858	1493.923	1488.524	1486.378
44.0	1473.526	1474.447	1477.094	1477.529	1477.766	1476.041	1474.302	1473.828	1468.364	1465.967
44.5	1453.220	1453.984	1456.684	1457.197	1457.368	1455.828	1453.695	1453.365	1448.124	1445.873
45.0	1432.626	1433.706	1436.365	1436.760	1437.116	1435.536	1433.864	1432.757	1427.569	1425.107
45.5	1412.676	1413.269	1415.744	1416.284	1416.271	1414.704	1413.124	1411.833	1407.106	1404.631
46.0	1391.884	1392.885	1395.031	1395.360	1395.676	1394.254	1392.200	1391.344	1385.906	1383.957
46.5	1371.329	1371.961	1374.318	1374.660	1374.831	1373.278	1371.342	1370.473	1365.416	1363.059
47.0	1350.392	1351.287	1353.262	1354.000	1353.881	1352.670	1350.760	1349.575	1344.558	1342.530
47.5	1329.665	1330.587	1332.549	1332.654	1332.799	1331.469	1329.481	1328.256	1323.424	1321.369
48.0	1308.952	1309.571	1311.427	1311.546	1311.915	1310.374	1308.425	1307.398	1302.605	1300.854
48.5	1288.054	1288.647	1290.517	1290.280	1290.609	1289.253	1286.974	1286.119	1281.457	1279.508
49.0	1266.762	1267.512	1269.119	1269.119	1269.092	1267.697	1265.866	1264.721	1259.927	1258.176
49.5	1245.982	1246.680	1247.866	1248.155	1247.997	1246.680	1244.560	1243.204	1238.806	1237.107
50.0	1225.111	1225.743	1226.705	1226.849	1227.007	1225.348	1223.307	1221.872	1217.777	1215.801
50.5	1203.884	1204.385	1205.662	1205.280	1205.399	1203.805	1201.554	1200.632	1196.194	1194.588
51.0	1182.842	1183.593	1184.264	1184.001	1183.961	1182.460	1180.301	1179.208	1175.125	1173.479
51.5	1161.773	1162.221	1163.064	1162.590	1162.432	1161.128	1158.824	1158.073	1153.727	1152.121
52.0	1140.836	1141.718	1141.824	1141.508	1141.442	1139.585	1137.623	1136.570	1132.264	1130.789
52.5	1119.833	1120.478	1120.623	1120.162	1120.268	1118.266	1116.014	1114.895	1111.103	1109.338
53.0	1098.764	1099.014	1099.423	1098.672	1098.935	1097.131	1094.893	1093.629	1089.599	1088.625
53.5	1077.722	1077.959	1078.011	1077.485	1077.472	1075.681	1073.205	1072.323	1068.373	1066.911
54.0	1056.956	1057.430	1057.074	1056.284	1056.403	1054.783	1052.242	1050.846	1047.133	1045.974
54.5	1036.137	1036.387	1036.374	1035.308	1035.479	1033.109	1031.094	1029.790	1026.274	1025.155
55.0	1015.305	1015.516	1015.147	1014.278	1013.923	1012.053	1009.630	1008.603	1005.153	1003.507
55.5	994.750	994.816	994.224	992.933	992.933	991.063	988.851	987.521	984.387	982.939
56.0	974.274	974.300	973.247	972.378	971.996	970.126	967.822	966.637	962.976	962.238
56.5	953.627	953.495	952.560	951.296	951.217	949.123	946.950	945.726	942.394	941.393
57.0	932.979	932.847	932.255	930.754	930.583	928.594	925.842	924.828	921.655	920.786

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

57.5	912.661	912.819	911.647	910.343	910.119	907.881	905.353	903.970	901.573	900.560
58.0	892.290	892.356	891.144	889.512	889.301	887.115	884.824	883.599	880.676	879.912
58.5	872.235	872.472	870.932	869.312	869.154	866.626	864.321	863.426	860.634	859.791
59.0	852.312	852.391	851.022	849.112	848.651	846.426	844.214	843.055	840.566	839.947
59.5	832.481	832.257	830.809	828.689	828.425	826.305	823.830	822.671	820.551	819.827
60.0	812.834	812.755	810.938	809.095	808.594	806.369	804.117	802.932	800.562	799.798
60.5	793.346	793.082	791.120	789.250	789.408	786.788	784.352	783.312	780.981	780.257
61.0	773.883	773.370	771.658	769.538	769.354	766.746	764.337	763.362	761.453	760.715
61.5	754.711	754.224	752.262	750.168	749.746	747.811	745.098	744.084	741.911	741.424
62.0	735.578	735.275	733.234	731.180	730.482	728.414	726.044	724.727	722.910	722.475
62.5	716.458	716.129	714.259	711.704	711.572	709.334	706.832	705.568	703.869	703.408
63.0	697.996	697.206	695.402	693.164	692.847	690.359	687.962	686.817	685.118	684.473
63.5	679.377	678.731	676.783	674.412	674.254	671.673	669.343	668.355	666.525	666.116
64.0	660.876	660.454	658.202	655.793	655.687	653.159	650.894	649.314	647.958	647.260
64.5	642.822	642.282	640.110	637.805	637.502	634.842	632.485	631.445	629.865	629.167
65.0	624.690	624.124	621.872	619.475	619.252	616.723	614.472	613.115	611.917	611.430
65.5	606.689	606.531	604.201	601.672	600.935	599.039	596.418	595.259	594.074	593.376
66.0	589.281	588.662	586.727	584.317	583.606	581.157	578.971	577.851	576.535	576.219
66.5	571.847	571.162	569.108	566.501	566.145	563.972	561.668	560.575	559.271	558.903
67.0	554.412	553.951	551.766	549.527	548.842	546.538	544.154	543.220	541.837	541.560
67.5	537.597	537.044	534.831	532.501	531.987	529.749	527.234	526.193	525.298	524.824
68.0	520.755	520.571	518.016	515.883	515.330	512.946	510.642	509.667	508.509	508.258
68.5	504.111	503.465	501.661	499.238	498.580	496.460	494.393	493.023	492.312	491.825
69.0	487.888	487.242	485.162	482.950	482.344	479.816	477.696	476.892	475.707	475.431
69.5	471.520	471.019	469.176	466.621	466.542	464.027	461.631	460.840	459.787	459.616
70.0	455.652	454.968	452.927	450.701	450.411	448.226	446.066	445.078	444.157	443.683
70.5	439.772	439.087	437.270	435.189	434.676	432.635	430.541	429.553	428.671	428.184
71.0	424.418	423.904	421.929	420.151	419.256	417.136	415.134	414.371	413.475	413.041
71.5	408.906	408.629	406.457	404.732	404.034	402.111	400.004	408.155	398.635	397.818
72.0	393.815	393.407	391.695	389.786	389.180	387.337	385.177	384.374	383.755	383.228
72.5	378.975	378.435	377.118	375.038	374.537	372.681	370.824	369.876	369.020	372.062
73.0	364.148	363.858	362.067	360.369	360.053	358.064	356.221	355.325	354.562	354.022
73.5	349.874	349.610	347.820	346.213	345.897	343.895	342.236	341.236	340.340	340.116
74.0	335.626	335.455	334.138	332.426	331.781	330.227	328.489	327.185	326.566	326.422
74.5	321.800	321.431	320.193	318.363	317.836	316.269	314.570	313.622	313.148	312.687
75.0	308.013	308.000	306.828	304.918	304.602	303.048	301.218	300.467	299.612	299.203
75.5	294.726	294.450	293.225	291.671	291.408	289.959	288.155	287.523	286.628	286.088
76.0	281.334	281.045	280.083	278.451	278.424	276.647	275.264	274.447	273.592	273.262
76.5	268.035	270.339	267.192	265.809	265.546	264.058	262.728	262.030	260.898	260.871
77.0	255.696	258.330	254.761	253.247	252.970	251.904	250.139	249.639	248.506	248.441
77.5	243.081	242.989	242.107	240.856	240.830	239.210	237.893	237.366	236.484	236.366
78.0	230.888	230.677	230.163	228.768	228.662	227.267	225.963	225.502	224.422	224.264
78.5	218.681	218.905	218.009	216.969	216.956	215.639	214.559	214.059	212.834	212.848
79.0	206.935	206.975	206.356	205.552	205.171	204.130	202.972	202.418	201.734	201.233
79.5	195.518	195.716	195.360	194.109	194.215	193.082	191.884	191.147	190.343	190.264
80.0	184.247	184.365	183.773	183.417	182.890	182.061	180.955	180.467	179.756	178.940
80.5	172.764	173.330	172.975	172.356	172.237	171.197	170.223	169.841	168.827	168.577
81.0	162.256	162.572	162.533	161.650	161.677	160.939	159.860	159.267	158.424	158.345
81.5	152.025	152.209	151.919	151.511	151.182	150.642	149.628	149.220	148.285	147.982
82.0	141.754	141.806	142.004	141.411	141.042	140.779	139.844	139.212	138.317	138.080
82.5	131.667	131.654	131.970	131.706	131.324	130.995	130.311	129.757	128.809	128.651
83.0	121.909	122.423	122.436	121.936	121.975	121.475	120.658	120.435	119.460	119.105
83.5	112.218	112.718	113.271	112.652	112.468	112.060	111.572	111.322	110.111	109.992
84.0	102.974	103.303	103.724	103.593	103.579	103.303	102.724	102.171	101.288	100.696
84.5	94.085	94.467	94.810	94.731	94.731	94.652	94.059	93.690	92.729	92.334
85.0	85.381	85.763	86.040	86.435	86.448	86.277	85.895	85.394	84.460	84.065

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

85.5	76.506	77.138	78.113	78.178	78.165	78.205	77.955	77.309	76.783	76.137
86.0	68.368	69.013	69.988	70.291	70.567	70.752	70.317	69.843	68.803	68.381
86.5	60.520	61.152	62.443	62.719	62.904	63.167	62.811	62.482	61.455	61.060
87.0	52.896	53.646	55.227	55.556	55.622	56.162	55.832	55.674	54.358	54.028
87.5	45.719	46.588	48.129	48.906	48.761	49.433	49.209	48.932	47.721	47.247
88.0	38.990	39.939	41.664	42.085	42.177	42.796	42.519	42.335	41.255	41.031
88.5	32.801	33.934	35.317	35.962	36.238	36.739	36.712	36.660	35.514	35.001
89.0	27.258	28.245	30.036	30.168	30.787	31.037	30.879	30.892	29.812	29.496
89.5	22.478	23.255	24.927	25.427	25.849	25.809	25.678	25.664	24.914	25.322
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**  
**Angles**

	<u>300.0</u>	<u>310.0</u>	<u>315.0</u>	<u>320.0</u>	<u>330.0</u>	<u>337.5</u>	<u>340.0</u>	<u>350.0</u>	<u>360.0</u>
0.0	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237	2401.237
0.5	2398.130	2400.079	2401.698	2402.107	2400.816	2401.448	2401.290	2403.595	2407.519
1.0	2397.590	2399.631	2401.014	2401.554	2400.869	2400.869	2400.948	2403.252	2406.847
1.5	2396.958	2399.012	2400.316	2401.014	2399.512	2400.118	2400.105	2402.225	2406.162
2.0	2396.234	2397.972	2399.407	2399.828	2399.025	2399.315	2399.025	2401.027	2404.951
2.5	2394.706	2396.444	2397.722	2398.262	2397.629	2397.643	2397.695	2399.512	2403.516
3.0	2393.626	2395.022	2396.484	2396.918	2396.168	2396.444	2396.273	2398.420	2402.041
3.5	2391.678	2393.113	2394.917	2395.154	2394.206	2394.403	2394.324	2396.247	2400.145
4.0	2390.097	2391.414	2393.007	2393.258	2392.138	2392.033	2392.046	2393.956	2397.866
4.5	2387.793	2389.123	2390.400	2390.637	2389.294	2389.900	2389.663	2391.335	2395.444
5.0	2385.568	2386.990	2388.306	2388.544	2387.253	2387.200	2387.319	2388.623	2392.797
5.5	2382.671	2384.198	2385.726	2385.660	2384.277	2384.290	2384.369	2385.633	2389.650
6.0	2380.248	2381.090	2382.763	2382.855	2381.591	2381.354	2381.525	2382.394	2386.568
6.5	2376.929	2378.062	2379.405	2379.392	2378.154	2377.746	2378.062	2379.300	2383.210
7.0	2373.677	2374.796	2376.166	2376.179	2374.822	2374.269	2374.401	2375.665	2379.734
7.5	2369.990	2371.030	2371.952	2372.465	2371.096	2370.793	2370.701	2371.820	2375.994
8.0	2366.474	2367.606	2368.818	2368.634	2367.514	2366.843	2366.685	2367.685	2371.820
8.5	2362.379	2362.892	2364.393	2364.630	2363.050	2362.813	2362.326	2363.221	2367.462
9.0	2358.270	2358.560	2360.127	2360.074	2358.244	2357.888	2357.428	2358.376	2362.616
9.5	2353.833	2354.188	2355.321	2355.716	2353.635	2353.029	2352.832	2353.820	2358.073
10.0	2348.829	2349.579	2350.369	2350.277	2348.829	2347.604	2347.815	2348.644	2352.542
10.5	2344.102	2344.655	2345.497	2345.510	2343.377	2342.232	2342.390	2343.193	2347.064
11.0	2338.689	2339.295	2340.085	2339.914	2337.728	2336.978	2336.727	2337.623	2341.507
11.5	2333.396	2333.554	2334.792	2334.305	2331.947	2331.263	2330.696	2331.763	2335.503
12.0	2327.655	2328.037	2328.774	2328.471	2326.035	2325.284	2324.863	2325.614	2329.248
12.5	2321.611	2322.269	2322.704	2322.282	2320.202	2318.740	2318.661	2318.661	2323.257
13.0	2315.566	2315.408	2316.067	2316.541	2313.420	2312.064	2311.853	2312.169	2316.172
13.5	2309.140	2308.956	2309.733	2309.470	2306.797	2305.519	2304.993	2305.361	2309.628
14.0	2302.504	2301.977	2302.767	2302.794	2299.857	2298.185	2298.027	2298.198	2302.109
14.5	2295.814	2295.314	2294.945	2295.380	2292.786	2291.113	2290.495	2290.797	2294.774
15.0	2288.230	2287.900	2288.151	2287.611	2285.122	2283.028	2283.081	2283.147	2286.676
15.5	2281.027	2280.145	2280.566	2280.184	2277.169	2275.457	2275.180	2274.877	2278.841
16.0	2273.798	2272.375	2272.836	2272.599	2268.873	2267.332	2267.082	2266.555	2270.255
16.5	2265.436	2264.830	2264.830	2263.961	2260.603	2258.905	2258.207	2258.114	2262.091
17.0	2256.811	2256.455	2256.034	2255.850	2252.821	2250.332	2249.713	2249.463	2253.163
17.5	2248.581	2247.475	2247.264	2247.014	2243.485	2241.523	2240.746	2240.338	2244.051
18.0	2240.364	2238.876	2238.376	2238.033	2234.531	2232.555	2231.752	2231.199	2235.097
18.5	2231.304	2229.882	2229.632	2229.198	2225.669	2222.930	2222.627	2221.521	2225.234
19.0	2222.074	2220.678	2220.112	2219.585	2215.727	2213.304	2212.738	2211.908	2215.858
19.5	2212.553	2210.973	2210.262	2209.801	2205.969	2203.546	2202.888	2202.269	2205.824
20.0	2202.822	2201.005	2200.504	2200.004	2195.988	2193.381	2192.867	2191.919	2195.395
20.5	2192.788	2191.010	2190.628	2189.351	2185.598	2183.096	2182.530	2181.292	2184.571

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

<b>21.0</b>	2182.754	2180.726	2180.041	2179.133	2175.459	2172.549	2171.838	2170.784	2173.984
<b>21.5</b>	2172.312	2170.034	2169.283	2168.743	2164.674	2161.158	2161.119	2159.881	2163.463
<b>22.0</b>	2161.804	2159.341	2158.248	2157.550	2153.587	2150.729	2150.097	2148.767	2152.310
<b>22.5</b>	2150.703	2148.425	2147.358	2146.292	2142.341	2139.273	2138.325	2137.403	2140.709
<b>23.0</b>	2139.774	2137.035	2135.929	2135.178	2131.017	2127.830	2127.067	2125.723	2129.331
<b>23.5</b>	2128.331	2125.460	2124.143	2123.498	2119.337	2115.887	2115.242	2113.727	2117.125
<b>24.0</b>	2116.545	2113.596	2112.226	2111.160	2107.064	2104.049	2103.575	2101.810	2104.997
<b>24.5</b>	2104.826	2101.415	2099.782	2099.401	2094.713	2091.868	2091.263	2089.472	2092.843
<b>25.0</b>	2092.659	2089.182	2087.536	2086.588	2082.335	2079.017	2078.542	2076.910	2080.386
<b>25.5</b>	2079.872	2076.607	2074.829	2073.710	2069.615	2066.757	2066.007	2064.176	2067.666
<b>26.0</b>	2067.442	2063.439	2061.990	2060.976	2056.657	2053.589	2052.799	2051.035	2054.616
<b>26.5</b>	2054.155	2050.258	2048.493	2047.729	2043.555	2040.184	2039.763	2037.998	2040.948
<b>27.0</b>	2041.303	2037.261	2035.180	2034.561	2029.979	2026.832	2026.186	2024.830	2027.622
<b>27.5</b>	2027.898	2023.369	2021.999	2020.946	2016.692	2013.387	2012.729	2010.898	2013.822
<b>28.0</b>	2014.098	2009.792	2007.962	2006.751	2002.497	1999.403	1998.968	1996.954	1999.627
<b>28.5</b>	2000.496	1995.597	1993.780	1992.358	1988.579	1985.537	1984.523	1982.837	1985.945
<b>29.0</b>	1986.301	1981.665	1979.361	1978.084	1974.028	1970.802	1970.143	1968.497	1971.473
<b>29.5</b>	1971.974	1966.772	1965.008	1963.322	1960.030	1956.370	1955.303	1954.000	1956.436
<b>30.0</b>	1957.423	1951.945	1950.036	1948.877	1944.848	1941.780	1940.858	1939.120	1941.332
<b>30.5</b>	1942.280	1936.934	1935.051	1933.866	1929.889	1926.676	1925.925	1923.726	1926.518
<b>31.0</b>	1927.189	1921.856	1919.855	1918.248	1914.614	1911.190	1910.427	1908.386	1910.914
<b>31.5</b>	1911.928	1906.476	1904.343	1903.105	1898.970	1895.586	1895.112	1893.032	1895.231
<b>32.0</b>	1896.337	1890.977	1888.739	1887.185	1883.393	1879.824	1879.153	1876.993	1879.521
<b>32.5</b>	1880.483	1874.623	1872.463	1871.146	1867.328	1863.917	1863.206	1860.994	1863.206
<b>33.0</b>	1864.786	1858.584	1856.240	1855.082	1851.289	1847.747	1847.115	1845.113	1846.983
<b>33.5</b>	1848.208	1842.269	1840.149	1838.687	1834.763	1831.274	1830.444	1828.324	1830.563
<b>34.0</b>	1831.879	1825.941	1823.689	1821.543	1818.027	1814.629	1813.800	1811.522	1813.971
<b>34.5</b>	1815.143	1808.914	1806.571	1804.872	1801.303	1797.577	1796.997	1795.075	1796.813
<b>35.0</b>	1798.433	1791.743	1789.544	1787.898	1784.159	1780.827	1779.603	1777.943	1779.971
<b>35.5</b>	1780.682	1774.717	1772.373	1770.582	1766.830	1763.748	1762.300	1760.325	1762.023
<b>36.0</b>	1763.775	1757.480	1754.702	1753.161	1749.500	1746.024	1744.813	1742.719	1745.102
<b>36.5</b>	1746.314	1739.703	1737.057	1735.411	1731.724	1728.287	1727.089	1725.390	1726.680
<b>37.0</b>	1728.050	1721.690	1719.175	1717.529	1713.789	1710.431	1709.299	1706.928	1708.759
<b>37.5</b>	1710.234	1703.715	1701.292	1699.238	1695.564	1692.022	1691.337	1689.138	1690.771
<b>38.0</b>	1692.141	1685.649	1682.923	1681.198	1677.537	1673.863	1672.955	1670.650	1672.678
<b>38.5</b>	1673.837	1667.056	1664.527	1662.539	1658.905	1655.468	1654.678	1652.294	1653.888
<b>39.0</b>	1655.244	1648.528	1646.013	1644.249	1640.351	1636.967	1635.834	1633.530	1634.913
<b>39.5</b>	1636.914	1629.803	1626.867	1625.432	1621.455	1618.137	1617.360	1614.463	1616.267
<b>40.0</b>	1617.544	1610.960	1608.142	1605.982	1602.361	1599.227	1597.805	1595.356	1597.199
<b>40.5</b>	1598.345	1591.945	1589.259	1587.231	1583.426	1579.883	1579.120	1576.289	1577.750
<b>41.0</b>	1579.594	1572.496	1570.179	1568.045	1563.858	1560.764	1559.934	1556.813	1558.788
<b>41.5</b>	1559.592	1553.113	1550.348	1548.675	1544.448	1541.275	1540.221	1537.667	1538.720
<b>42.0</b>	1540.221	1533.888	1531.149	1528.726	1524.907	1521.668	1520.891	1518.047	1519.324
<b>42.5</b>	1520.153	1513.820	1511.120	1508.987	1505.221	1502.166	1501.033	1498.334	1499.546
<b>43.0</b>	1500.494	1494.028	1491.302	1489.327	1485.245	1482.045	1480.860	1478.345	1479.398
<b>43.5</b>	1480.478	1474.184	1471.524	1469.509	1465.401	1462.056	1460.937	1458.330	1458.909
<b>44.0</b>	1460.213	1453.918	1451.430	1449.204	1445.017	1442.199	1441.198	1438.077	1439.104
<b>44.5</b>	1440.092	1433.626	1430.730	1428.847	1424.949	1421.788	1420.603	1417.772	1418.628
<b>45.0</b>	1419.721	1413.598	1410.793	1408.844	1404.604	1401.325	1400.298	1397.665	1398.521
<b>45.5</b>	1399.100	1393.056	1390.251	1388.473	1384.523	1381.284	1380.125	1377.149	1377.821
<b>46.0</b>	1378.492	1372.422	1369.880	1367.642	1363.573	1360.715	1359.333	1356.344	1357.160
<b>46.5</b>	1358.095	1351.985	1349.154	1347.389	1343.004	1339.963	1338.646	1335.933	1336.815
<b>47.0</b>	1337.013	1331.337	1328.638	1326.689	1322.475	1319.578	1318.406	1315.417	1315.944
<b>47.5</b>	1316.063	1310.348	1308.175	1305.805	1301.591	1298.549	1297.654	1294.678	1295.099
<b>48.0</b>	1295.402	1290.029	1287.027	1284.960	1281.062	1277.889	1276.690	1274.136	1274.096
<b>48.5</b>	1274.557	1268.947	1266.564	1264.062	1260.296	1257.070	1256.135	1253.725	1253.199



**IES INDOOR REPORT  
PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

49.0	1253.541	1247.971	1245.548	1243.270	1239.636	1236.344	1235.093	1232.156	1232.275
49.5	1232.419	1227.244	1224.598	1222.701	1218.659	1215.630	1214.682	1211.812	1211.509
50.0	1211.074	1206.162	1204.056	1201.778	1197.946	1194.535	1193.376	1191.006	1190.716
50.5	1190.032	1185.318	1182.921	1180.880	1176.850	1173.927	1172.650	1170.029	1169.832
51.0	1169.160	1164.249	1162.116	1159.824	1156.190	1153.161	1151.937	1149.264	1148.776
51.5	1148.315	1143.364	1141.244	1138.940	1135.226	1132.198	1130.986	1128.563	1128.129
52.0	1126.931	1122.348	1120.149	1118.227	1114.329	1111.076	1110.023	1107.547	1107.337
52.5	1105.691	1101.319	1099.383	1097.645	1093.879	1090.521	1089.244	1086.729	1086.413
53.0	1084.622	1080.606	1078.565	1076.879	1072.771	1069.900	1068.702	1066.292	1065.713
53.5	1063.711	1059.655	1057.772	1055.705	1051.926	1049.187	1047.975	1045.539	1044.973
54.0	1042.800	1038.942	1036.993	1035.229	1031.502	1028.487	1027.394	1025.181	1024.181
54.5	1022.100	1018.110	1016.398	1014.779	1011.026	1007.800	1006.970	1004.350	1003.902
55.0	1000.794	997.344	995.593	994.158	990.708	987.613	986.257	983.966	983.228
55.5	980.305	977.066	975.209	973.589	969.968	967.361	966.018	963.410	962.897
56.0	959.697	956.497	954.759	953.376	949.558	946.911	945.489	943.250	942.644
56.5	938.865	936.047	934.204	932.861	929.187	926.461	925.144	922.945	922.339
57.0	918.521	915.690	913.965	912.608	909.435	906.446	905.102	903.022	902.206
57.5	898.005	895.503	893.646	892.856	889.354	886.457	885.285	882.862	882.282
58.0	877.779	875.198	873.828	872.472	869.351	866.507	865.375	863.189	862.451
58.5	857.829	855.538	854.037	852.839	849.705	846.518	845.675	843.318	842.620
59.0	837.827	835.957	834.180	833.166	829.913	827.122	826.173	824.132	822.934
59.5	817.693	815.863	814.638	813.335	810.477	807.580	806.369	804.578	803.393
60.0	798.020	796.045	795.360	794.281	791.068	788.052	787.012	784.668	784.339
60.5	778.518	777.004	775.701	774.766	772.027	769.182	767.984	765.759	764.916
61.0	759.069	757.463	756.528	755.422	752.604	749.667	748.732	746.981	745.875
61.5	739.923	738.633	737.566	736.565	733.497	731.035	729.889	727.888	726.755
62.0	721.067	719.789	718.762	717.801	714.983	712.376	711.375	709.123	708.175
62.5	702.118	700.801	700.024	699.181	696.640	693.651	692.782	690.701	689.727
63.0	683.353	682.313	681.404	680.496	678.126	675.058	674.202	672.305	671.318
63.5	664.997	663.996	663.127	662.364	659.954	656.846	655.911	654.213	653.304
64.0	646.299	645.759	644.916	644.192	641.677	638.964	638.108	636.080	635.079
64.5	628.574	627.942	627.060	626.191	623.755	621.306	620.028	618.093	617.145
65.0	610.600	610.073	609.191	608.506	606.044	603.740	602.317	600.474	599.539
65.5	592.784	592.376	591.296	590.914	588.570	585.976	584.962	582.710	581.815
66.0	575.744	575.047	574.217	573.664	571.136	568.594	567.699	565.895	564.749
66.5	558.113	557.862	557.230	556.374	554.241	551.489	550.528	548.566	547.302
67.0	541.231	540.823	540.244	539.743	537.175	534.752	533.633	531.856	530.512
67.5	524.284	523.981	523.165	522.901	520.439	517.726	516.910	515.106	514.197
68.0	507.653	507.152	506.718	506.178	504.032	501.187	500.634	498.698	497.513
68.5	491.193	491.008	490.508	489.784	487.545	485.307	484.069	482.357	480.988
69.0	475.115	474.864	474.311	473.653	471.493	468.886	468.057	466.476	465.186
69.5	459.194	458.852	458.325	457.772	455.363	453.177	452.110	450.517	449.226
70.0	443.209	443.024	442.616	442.142	439.456	437.336	436.335	434.281	433.333
70.5	427.815	427.618	426.775	426.670	424.339	421.942	420.862	419.137	418.137
71.0	412.751	412.474	411.895	411.684	408.880	406.378	405.693	403.678	402.822
71.5	397.581	397.279	396.660	396.159	394.079	391.327	390.629	388.812	387.666
72.0	382.807	382.557	381.925	381.372	379.133	376.750	375.920	374.011	372.891
72.5	368.190	367.914	367.150	366.966	364.675	362.094	361.304	359.276	358.091
73.0	353.916	353.534	352.837	352.323	350.084	347.635	346.779	344.607	343.540
73.5	339.800	339.590	338.813	338.088	335.955	333.374	332.676	330.622	329.648
74.0	325.842	325.500	325.157	324.512	322.010	319.745	318.850	316.532	315.676
74.5	312.226	311.594	311.134	310.725	308.131	305.682	304.931	302.983	301.745
75.0	299.019	298.242	297.649	297.175	294.990	292.132	291.105	289.551	288.458
75.5	285.943	285.285	284.773	284.218	281.545	279.227	278.148	276.146	275.159
76.0	273.776	272.209	271.432	270.826	268.575	265.967	265.072	263.031	262.070
76.5	261.780	259.489	259.028	258.277	255.867	253.484	252.378	250.284	248.981

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**CANDELA TABULATION - (Cont.)**

<b>77.0</b>	247.927	247.400	247.229	245.781	243.345	240.803	240.145	237.669	236.629
<b>77.5</b>	235.536	237.340	234.232	233.666	230.980	228.280	227.504	225.212	224.383
<b>78.0</b>	223.777	223.040	222.197	221.341	218.905	216.442	215.389	213.401	212.426
<b>78.5</b>	212.281	211.360	210.438	209.542	206.935	204.618	203.893	201.523	200.496
<b>79.0</b>	200.549	199.785	199.021	198.139	195.505	193.280	192.016	189.975	189.224
<b>79.5</b>	189.369	188.474	187.657	187.631	184.431	181.811	181.086	178.624	177.715
<b>80.0</b>	178.624	177.742	176.794	176.069	173.291	170.986	169.959	167.958	166.654
<b>80.5</b>	167.932	166.839	166.075	165.140	162.743	160.189	159.148	157.015	156.041
<b>81.0</b>	157.450	156.620	155.540	154.777	151.919	149.812	148.588	146.771	145.572
<b>81.5</b>	147.416	146.191	145.480	144.348	141.767	139.410	138.554	136.499	135.393
<b>82.0</b>	137.237	136.473	135.288	134.419	131.733	129.705	128.441	126.334	124.991
<b>82.5</b>	127.637	126.479	125.741	124.596	122.107	119.802	119.118	116.945	115.615
<b>83.0</b>	118.314	117.103	116.115	115.286	112.771	110.466	110.150	107.398	106.371
<b>83.5</b>	108.847	107.780	106.885	106.147	103.448	101.038	100.222	98.325	97.114
<b>84.0</b>	99.985	98.641	97.957	96.890	94.494	92.202	91.294	89.542	88.318
<b>84.5</b>	91.333	89.964	88.937	88.239	85.645	83.538	82.840	80.575	79.719
<b>85.0</b>	82.985	81.299	80.180	79.416	77.112	74.926	74.241	72.082	71.147
<b>85.5</b>	75.005	73.227	71.831	71.120	68.711	66.880	65.893	64.128	63.246
<b>86.0</b>	67.130	65.379	64.220	63.325	60.823	58.650	57.952	56.241	55.253
<b>86.5</b>	59.572	57.979	56.675	55.411	52.843	50.776	49.973	48.445	47.668
<b>87.0</b>	52.672	50.539	49.340	48.037	45.535	43.283	42.388	41.334	40.176
<b>87.5</b>	45.996	43.823	42.572	41.387	38.595	36.278	35.435	34.039	33.578
<b>88.0</b>	39.504	37.595	36.475	35.488	32.420	30.128	29.088	27.152	26.757
<b>88.5</b>	33.908	32.064	30.629	29.826	26.810	24.321	23.321	21.135	20.094
<b>89.0</b>	28.390	26.929	25.520	24.532	21.793	19.278	18.251	15.867	14.524
<b>89.5</b>	23.808	21.872	21.279	19.686	17.263	15.025	13.866	11.114	9.441
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	872.71	N.A.	14.60
0-30	1835.74	N.A.	30.80
0-40	2957.79	N.A.	49.60
0-60	4945.68	N.A.	82.90
0-80	5872.75	N.A.	98.40
0-90	5965.39	N.A.	100.00
10-90	5738.54	N.A.	96.20
20-40	2085.07	N.A.	35.00
20-50	3177.66	N.A.	53.30
40-70	2595.89	N.A.	43.50
60-80	927.08	N.A.	15.50
70-80	319.09	N.A.	5.30
80-90	92.63	N.A.	1.60
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	5965.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	226.84
10-20	645.87
20-30	963.03
30-40	1122.04
40-50	1092.58
50-60	895.31
60-70	608.00
70-80	319.09
80-90	92.63
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

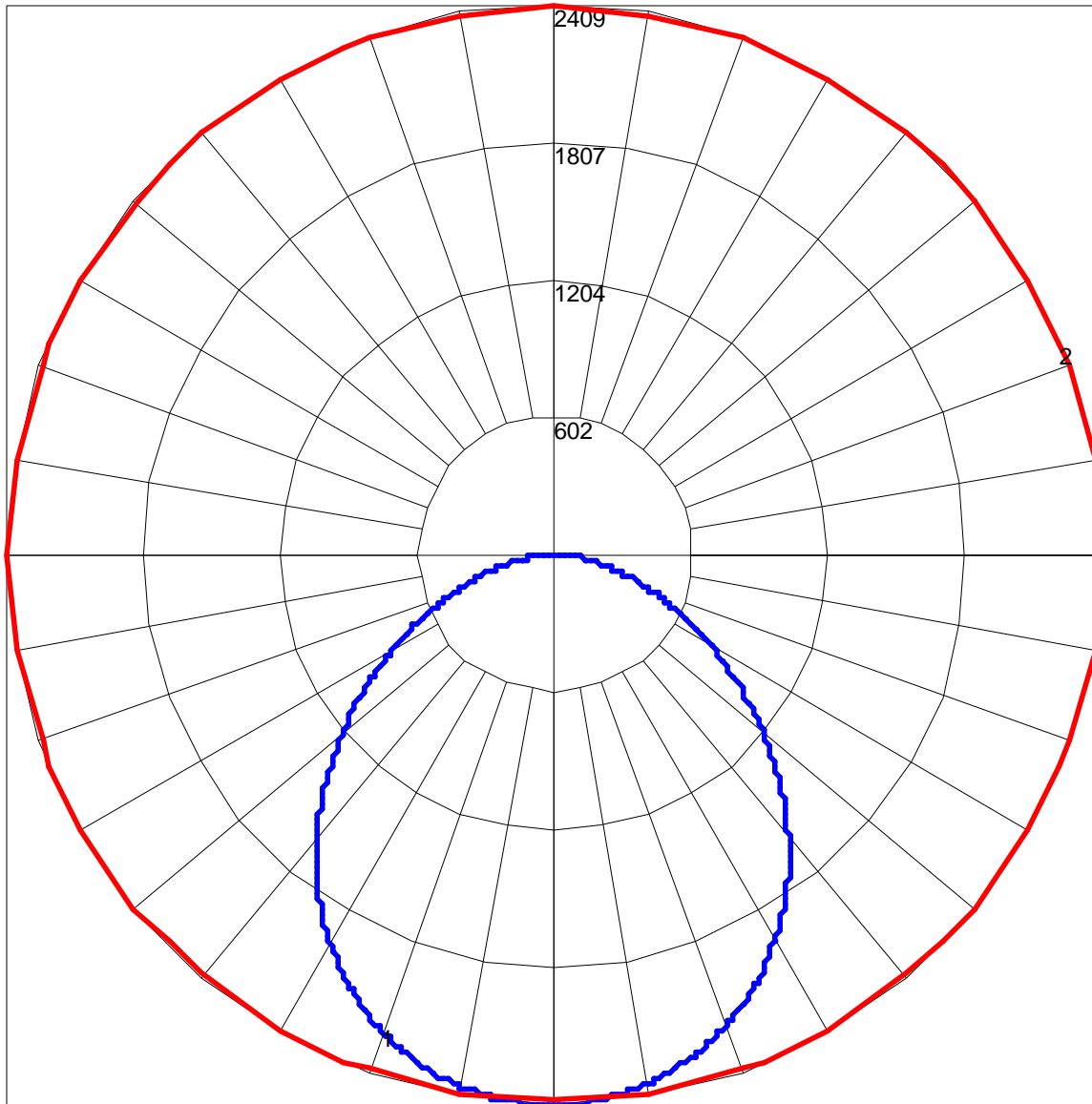
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : RDIS24-LED60FRDMV40.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

POLAR GRAPH



Maximum Candela = 2408.743 Located At Horizontal Angle = 180, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (180 - 0) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)