



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF1-L35-750-VF-XX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM ATAL009594-R3

[TESTLAB]ATAL-LABS

[ISSUE]28 NOV, 2022

[MANUFAC]WILLIAMS OUTDOOR

[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT]VF1-L35-750-VF-MTG-CLR-OPT-DIM-UNV

[LUMINAIRE]VOLTAIRE SMALL ARCHITECTURAL FLOOD LIGHT WITH
[MORE]VERTICAL FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A
[MORE]CLEAR GLASS LENS.

[LAMPCAT]X16-LUXEON TX 5000K LEDS

[LAMP](16) LUXEON TX 5000K LEDS

[BALLASTCAT]X1-EUC-018S035DSP

[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER

[OTHER]INPUT WATTS: 32 VAC: 120.04, TEMP: 25.6 C

[_SEARCH_SOURCE]TYPE] LED

[_SEARCH_APPLICATION] Outdoor, Architectural, Facade, Landscape, Parking, Site, Flood, Wet Location

[_SEARCH_MOUNTING] Arm, Ground, Pole, Post Top, Wall

Note: Candela values converted from Type-B to Type-C

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3492
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.60
Spacing Criterion (90-270)	1.52
Spacing Criterion (Diagonal)	1.48
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	1.00 ft
Luminous Width (90-270)	1.00 ft
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13282	29021	14269
55	3480	8274	4277
65	3130	3562	4041
75	1859	2183	2695
85	0	760	276

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CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962
2.5	1236.226	1236.446	1237.107	1238.208	1239.746	1241.719	1244.122	1246.952	1250.203	1253.868
5.0	1022.081	1022.478	1023.669	1025.651	1028.420	1031.972	1037.554	1043.513	1050.184	1057.548
7.5	909.697	910.529	911.565	912.802	916.373	920.250	924.240	928.322	933.146	938.948
10.0	895.719	897.578	899.233	902.688	906.833	910.756	914.451	917.910	923.122	927.947
12.5	938.771	939.429	939.521	946.250	951.346	955.794	961.094	967.853	973.678	978.506
15.0	1006.425	1006.044	1008.827	1015.557	1021.483	1029.226	1041.007	1051.235	1057.844	1071.801
17.5	1081.572	1081.110	1087.216	1095.983	1103.613	1122.337	1139.586	1156.502	1175.853	1192.656
20.0	1159.253	1158.599	1168.291	1179.122	1195.829	1217.332	1239.077	1266.856	1290.180	1312.751
22.5	1252.440	1251.721	1262.866	1273.298	1292.875	1313.471	1336.651	1360.648	1385.929	1411.626
25.0	1317.672	1315.278	1323.835	1332.870	1350.376	1370.244	1396.679	1424.761	1456.583	1487.443
27.5	1330.718	1332.020	1339.555	1350.989	1368.441	1393.313	1422.569	1460.242	1495.921	1539.914
30.0	1377.125	1381.095	1383.731	1390.466	1399.224	1416.130	1436.679	1471.693	1517.026	1561.794
32.5	1493.143	1500.980	1501.107	1509.001	1519.653	1533.809	1561.984	1593.661	1626.386	1661.814
35.0	1550.143	1552.674	1551.472	1559.076	1571.391	1590.279	1632.356	1682.795	1743.404	1814.811
37.5	1592.388	1585.816	1580.001	1577.852	1580.505	1593.551	1620.246	1666.744	1733.473	1820.140
40.0	1414.587	1410.225	1413.233	1415.226	1428.685	1456.860	1501.008	1563.683	1663.146	1809.903
42.5	1236.785	1232.773	1236.607	1232.291	1243.045	1267.692	1306.100	1370.186	1471.426	1617.675
45.0	873.354	870.362	880.344	889.396	909.347	934.103	989.174	1080.269	1216.070	1384.165
47.5	509.922	505.882	516.703	527.778	537.080	541.361	592.081	677.186	802.800	917.428
50.0	401.825	397.676	400.016	399.141	389.122	374.121	387.546	418.683	462.638	443.091
52.5	293.727	292.224	294.836	297.093	293.697	291.712	305.421	332.500	354.410	351.060
55.0	185.630	186.712	189.929	196.189	202.483	209.135	220.218	239.246	254.998	264.831
57.5	169.974	170.683	171.132	173.023	174.374	175.393	177.175	180.844	187.353	192.857
60.0	154.319	155.580	156.009	157.596	158.091	158.432	160.139	162.831	167.765	171.952
62.5	138.664	140.475	140.881	142.059	141.674	141.348	142.955	144.539	147.375	150.805
65.0	123.008	125.370	125.750	126.424	125.198	124.330	125.397	125.468	126.513	129.119
67.5	103.439	105.079	106.177	106.040	105.187	105.038	106.000	105.683	105.963	107.626
70.0	83.869	84.766	86.489	85.183	84.803	85.122	86.017	85.690	86.231	87.426
72.5	64.300	64.469	66.834	64.309	64.496	65.179	66.142	65.678	66.592	66.875
75.0	44.730	44.187	47.205	43.513	44.255	45.212	46.357	45.654	47.029	46.031
77.5	33.548	33.129	35.858	32.850	33.181	33.612	34.146	32.981	33.697	31.441
80.0	22.365	22.105	24.684	22.706	22.974	23.322	23.755	23.052	23.479	22.024
82.5	11.183	11.068	13.498	12.559	12.762	13.026	13.354	13.109	13.406	12.764
85.0	0.000	0.021	2.301	2.410	2.546	2.723	2.943	3.155	3.430	3.617
87.5	0.000	0.000	1.120	1.128	1.136	1.146	1.158	1.173	1.190	1.211
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962
2.5	1257.942	1262.827	1267.956	1273.467	1279.350	1285.595	1292.190	1299.123	1306.381	1313.949
5.0	1065.588	1074.283	1083.613	1093.559	1104.096	1115.067	1127.610	1140.431	1153.786	1167.648
7.5	948.031	957.777	967.843	978.192	988.793	999.614	1010.624	1021.329	1033.596	1048.535
10.0	931.412	938.492	946.006	954.729	963.082	970.940	978.272	985.050	990.411	1004.804
12.5	984.220	990.698	997.526	1004.611	1010.907	1017.466	1022.958	1027.361	1032.217	1040.562
15.0	1081.171	1088.359	1093.089	1103.971	1110.580	1112.701	1116.956	1116.795	1118.249	1120.193
17.5	1208.082	1222.660	1234.626	1243.521	1248.997	1251.296	1248.602	1234.405	1230.251	1220.044
20.0	1334.823	1352.591	1367.943	1377.783	1382.690	1379.254	1374.561	1365.023	1349.200	1332.782
22.5	1434.449	1451.777	1466.189	1471.200	1473.798	1469.515	1459.863	1448.582	1426.797	1406.032
25.0	1515.731	1539.460	1549.181	1555.011	1549.774	1541.564	1521.750	1499.660	1473.013	1440.997
27.5	1574.117	1596.739	1613.607	1621.140	1621.162	1609.111	1587.019	1557.937	1523.296	1483.636
30.0	1605.707	1641.676	1666.798	1682.018	1683.715	1678.211	1663.138	1637.110	1601.232	1558.256

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32.5	1693.789	1714.927	1732.469	1762.722	1792.871	1802.486	1787.747	1759.213	1724.272	1661.607
35.0	1862.964	1905.611	1943.983	1982.545	2007.945	1999.663	2002.394	1963.024	1873.399	1781.887
37.5	1923.048	2039.172	2160.731	2284.439	2301.550	2296.119	2247.290	2152.612	2060.252	1916.904
40.0	1963.478	2095.625	2221.371	2318.240	2395.600	2455.346	2429.757	2310.436	2152.145	2011.337
42.5	1785.742	1952.920	2127.553	2252.640	2314.808	2303.447	2294.949	2242.819	2196.174	2009.053
45.0	1539.375	1663.967	1768.279	1878.294	1958.685	2039.755	2056.788	1996.106	1908.215	1821.706
47.5	1045.613	1189.068	1323.231	1453.232	1541.528	1585.537	1613.755	1607.494	1567.060	1475.868
50.0	493.261	625.792	773.452	908.259	1036.554	1127.129	1171.187	1149.473	1117.911	999.303
52.5	353.456	378.389	399.192	413.620	542.556	680.955	738.282	750.388	711.420	622.664
55.0	279.102	302.724	320.498	342.005	376.920	397.076	395.467	443.535	441.320	384.003
57.5	203.046	224.522	243.799	268.016	298.573	308.422	312.361	298.936	276.857	268.635
60.0	179.415	186.809	193.808	201.367	211.967	229.930	237.616	231.567	218.683	209.828
62.5	157.122	163.116	169.068	175.363	179.881	184.451	181.521	177.842	174.251	167.748
65.0	133.980	138.951	143.389	148.057	150.769	152.950	149.880	146.075	139.981	132.122
67.5	110.602	114.350	116.855	119.319	121.135	121.602	119.998	117.710	113.976	109.339
70.0	89.223	91.564	92.952	93.898	94.160	92.700	91.722	92.084	91.082	90.000
72.5	67.422	68.530	69.873	71.556	72.945	72.213	71.322	71.074	71.048	72.226
75.0	45.267	45.531	46.819	49.816	52.077	52.456	52.438	52.209	52.541	54.081
77.5	29.139	27.751	27.469	29.779	31.746	33.308	33.729	33.527	34.396	36.279
80.0	20.521	19.771	19.886	21.632	22.524	22.697	21.712	20.144	19.698	19.868
82.5	12.085	11.862	12.163	13.319	13.906	14.187	13.657	12.859	12.903	13.164
85.0	3.777	4.001	4.337	4.886	5.324	5.718	5.833	5.842	6.160	6.518
87.5	1.234	1.261	1.291	1.326	1.365	1.409	1.459	1.516	1.581	1.654
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962
2.5	1321.815	1329.962	1338.375	1347.038	1355.933	1365.045	1379.694	1383.348	1391.824	1400.427
5.0	1181.992	1200.765	1213.582	1231.438	1249.725	1268.409	1287.455	1306.826	1326.485	1346.395
7.5	1063.255	1085.060	1107.261	1129.826	1152.723	1175.924	1199.401	1224.302	1251.214	1279.192
10.0	1020.892	1036.391	1051.292	1065.594	1080.387	1107.475	1136.713	1166.663	1195.919	1227.389
12.5	1047.386	1052.894	1057.094	1065.909	1080.675	1093.243	1105.706	1123.132	1155.348	1187.388
15.0	1116.836	1112.072	1109.676	1109.623	1108.065	1103.705	1113.195	1121.717	1128.774	1151.251
17.5	1206.689	1193.157	1184.024	1172.513	1157.818	1151.027	1142.416	1135.453	1140.051	1143.996
20.0	1314.415	1290.830	1266.441	1238.899	1219.923	1196.411	1176.082	1162.703	1147.541	1147.945
22.5	1385.821	1352.923	1322.550	1292.144	1262.831	1231.334	1201.146	1173.229	1158.326	1143.878
25.0	1408.284	1378.069	1340.555	1304.021	1266.904	1232.023	1200.014	1177.631	1157.167	1150.398
27.5	1444.368	1401.068	1356.394	1316.279	1279.146	1244.153	1212.208	1183.775	1168.234	1161.130
30.0	1506.939	1451.445	1403.884	1353.811	1309.444	1269.245	1237.689	1213.099	1196.524	1192.150
32.5	1594.246	1532.817	1462.388	1398.440	1343.789	1297.472	1258.441	1235.121	1219.814	1214.386
35.0	1694.278	1597.280	1511.795	1439.002	1368.281	1314.619	1272.430	1244.055	1230.578	1227.698
37.5	1780.167	1660.013	1550.394	1450.685	1377.037	1312.869	1265.391	1228.406	1207.848	1200.641
40.0	1861.589	1701.600	1563.908	1457.328	1350.081	1273.252	1217.197	1184.097	1167.490	1155.644
42.5	1835.861	1695.582	1533.441	1383.103	1271.249	1191.748	1135.278	1080.732	1044.610	1026.985
45.0	1733.122	1533.159	1371.751	1238.654	1124.392	1033.242	962.795	915.774	890.062	882.515
47.5	1322.295	1221.302	1097.825	976.670	863.702	789.444	752.906	718.370	690.314	666.725
50.0	805.572	682.427	726.914	688.808	565.228	475.570	515.908	507.106	473.507	451.437
52.5	454.621	423.105	428.483	408.443	373.243	356.940	336.276	314.966	309.208	328.067
55.0	362.647	339.705	313.311	294.711	284.445	265.041	247.778	248.321	249.050	254.701
57.5	269.255	261.239	252.214	236.916	217.478	210.748	211.045	209.353	205.663	199.813
60.0	198.512	195.634	195.318	187.503	182.651	182.064	180.755	177.029	170.610	167.223
62.5	159.724	155.981	150.039	151.051	156.392	158.516	156.383	152.191	151.297	151.978
65.0	129.368	127.286	124.320	126.328	129.757	134.037	136.164	135.672	135.835	136.563
67.5	107.105	103.903	103.273	104.867	107.412	111.170	114.039	117.740	118.542	120.035

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PHOTOMETRIC FILENAME : VF1-L35-750-VF-XX-DIM-UNV_IES

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70.0	88.954	87.089	85.529	84.393	85.223	87.972	91.188	94.859	99.174	101.685
72.5	72.596	70.937	69.105	67.661	66.809	66.341	68.308	71.800	75.948	80.750
75.0	55.396	54.383	52.917	51.153	50.695	50.354	49.808	49.020	52.867	57.465
77.5	37.477	37.326	36.741	35.875	35.693	35.294	34.952	34.294	34.632	36.612
80.0	20.302	21.142	21.587	21.988	22.468	22.529	22.055	21.318	22.442	23.044
82.5	12.872	12.311	11.593	11.018	10.418	10.930	11.379	11.867	12.533	12.911
85.0	6.607	6.582	6.446	6.372	6.216	5.920	5.440	5.063	4.575	4.826
87.5	1.739	1.835	1.948	2.078	2.237	2.487	2.646	2.752	2.761	2.627
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962
2.5	1409.138	1417.941	1426.817	1435.746	1444.711	1453.693	1462.672	1470.226	1477.745	1485.214
5.0	1366.516	1394.779	1405.791	1423.898	1442.047	1460.201	1478.327	1491.991	1505.585	1519.105
7.5	1307.228	1335.521	1364.015	1392.536	1418.725	1444.906	1471.058	1492.747	1514.377	1536.963
10.0	1260.850	1297.458	1334.192	1371.043	1406.604	1438.508	1470.499	1497.660	1524.902	1549.157
12.5	1219.276	1255.958	1298.138	1340.304	1382.498	1420.020	1456.521	1486.357	1516.010	1544.089
15.0	1183.077	1214.364	1252.989	1299.099	1345.484	1390.313	1433.597	1474.136	1510.930	1544.070
17.5	1159.453	1188.996	1216.768	1262.221	1311.661	1361.179	1410.337	1457.422	1501.416	1544.114
20.0	1147.645	1161.737	1186.752	1220.030	1271.994	1324.327	1380.294	1437.620	1486.779	1541.233
22.5	1144.195	1145.309	1165.013	1188.792	1231.280	1279.632	1337.427	1402.660	1470.419	1538.683
25.0	1145.770	1150.675	1161.755	1184.911	1221.968	1268.927	1331.836	1408.601	1494.426	1582.923
27.5	1164.529	1172.336	1185.052	1210.887	1245.298	1295.098	1360.112	1446.544	1545.518	1649.816
30.0	1194.485	1203.734	1221.792	1246.425	1278.427	1329.558	1395.576	1490.199	1599.959	1715.901
32.5	1220.261	1233.370	1253.026	1279.515	1313.857	1362.784	1429.124	1528.922	1644.527	1760.123
35.0	1230.683	1241.510	1258.793	1284.813	1319.265	1368.434	1435.833	1535.255	1642.162	1742.449
37.5	1208.755	1224.581	1247.253	1276.290	1313.118	1365.796	1435.833	1529.402	1613.940	1678.489
40.0	1147.046	1151.562	1164.298	1184.402	1213.103	1254.177	1310.589	1380.771	1442.405	1487.476
42.5	1023.347	1033.812	1054.344	1076.640	1107.084	1142.843	1185.345	1223.794	1249.682	1263.779
45.0	868.080	854.904	846.448	839.884	865.282	910.850	938.212	964.102	984.425	994.992
47.5	644.721	624.134	603.209	581.595	605.193	678.564	691.079	699.656	709.715	720.821
50.0	439.473	445.723	446.863	443.258	460.940	525.143	536.760	543.732	548.228	550.419
52.5	343.710	346.514	343.855	337.399	337.924	371.839	382.442	390.612	401.247	411.208
55.0	259.445	254.705	244.184	233.206	225.695	224.605	228.123	238.606	257.317	279.477
57.5	192.050	184.751	187.839	192.231	197.369	203.411	210.790	216.871	223.769	230.283
60.0	168.746	170.259	172.450	176.242	180.784	186.270	193.458	198.992	205.912	212.012
62.5	153.180	156.578	157.307	160.683	164.488	169.271	176.125	180.711	187.839	193.008
65.0	137.747	140.218	142.666	145.649	148.552	152.450	158.792	162.300	169.108	173.574
67.5	122.172	124.097	127.638	126.776	127.760	130.029	135.309	139.112	146.372	151.909
70.0	104.599	104.666	105.086	105.104	106.127	107.632	111.826	115.435	122.084	127.327
72.5	82.942	83.949	83.558	84.942	83.948	85.667	88.342	91.416	96.851	101.467
75.0	61.290	63.013	63.112	63.567	62.332	64.065	64.859	66.894	72.003	75.613
77.5	40.116	42.398	43.180	43.350	46.348	47.266	49.204	50.729	52.016	51.891
80.0	22.826	24.152	26.193	29.728	31.957	32.552	33.548	35.456	36.413	35.112
82.5	13.042	12.684	14.204	16.802	18.163	17.821	17.893	20.073	21.646	19.991
85.0	5.320	6.210	7.096	7.299	7.582	5.059	2.237	5.491	8.748	8.090
87.5	2.278	2.237	2.237	2.918	2.696	1.582	1.119	1.582	2.717	2.918
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962
2.5	1492.618	1499.944	1507.177	1514.304	1521.311	1531.151	1534.140	1539.372	1544.444	1549.346

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF1-L35-750-VF-XX-DIM-UNV_IES

CANDELA TABULATION - (Cont.)

5.0	1532.544	1545.388	1557.324	1569.086	1580.652	1591.999	1603.106	1613.952	1624.515	1634.776
7.5	1554.298	1572.435	1590.498	1608.479	1626.479	1644.098	1659.276	1672.832	1686.164	1699.251
10.0	1572.293	1595.416	1618.494	1641.108	1659.542	1678.125	1697.444	1714.868	1732.207	1747.523
12.5	1572.343	1600.755	1625.837	1647.892	1669.929	1691.904	1712.713	1733.501	1752.862	1773.261
15.0	1577.159	1608.015	1636.075	1663.235	1689.181	1713.542	1736.288	1757.352	1778.530	1803.248
17.5	1586.097	1625.685	1663.251	1699.699	1734.544	1767.542	1798.737	1827.457	1854.059	1875.637
20.0	1596.203	1650.234	1703.076	1754.550	1801.904	1842.398	1880.472	1913.197	1942.463	1968.586
22.5	1612.706	1684.908	1756.487	1823.832	1879.944	1931.861	1970.917	2007.658	2034.001	2055.514
25.0	1674.684	1761.441	1844.271	1911.561	1974.658	2019.894	2062.726	2090.328	2114.580	2123.695
27.5	1754.347	1850.144	1931.874	2003.398	2054.097	2097.458	2123.682	2143.569	2156.661	2162.206
30.0	1825.640	1927.723	1999.578	2048.992	2087.893	2112.264	2130.592	2146.828	2153.040	2147.776
32.5	1857.171	1932.472	1987.964	2025.160	2048.770	2069.064	2087.866	2087.569	2078.153	2064.994
35.0	1827.545	1878.268	1916.424	1944.082	1952.343	1953.024	1950.210	1946.684	1946.832	1928.665
37.5	1720.274	1742.471	1753.906	1759.993	1761.470	1763.497	1764.406	1761.233	1732.034	1705.313
40.0	1514.671	1529.131	1537.502	1541.022	1534.834	1523.408	1515.954	1500.238	1486.259	1444.814
42.5	1267.697	1267.531	1267.051	1265.929	1264.404	1260.222	1247.832	1230.289	1198.818	1153.916
45.0	999.016	999.473	996.826	992.695	992.576	988.973	981.422	963.081	928.109	875.858
47.5	730.177	740.234	744.680	748.929	750.944	743.180	734.949	720.233	687.255	649.550
50.0	545.416	536.734	514.969	529.214	547.610	554.278	547.160	521.946	509.898	478.959
52.5	418.116	417.912	414.182	410.676	403.057	403.270	410.678	407.528	391.911	381.688
55.0	299.663	314.309	326.522	332.069	332.885	330.873	325.848	324.467	322.499	312.582
57.5	234.713	240.440	252.325	269.049	277.586	281.065	279.468	274.916	269.329	266.766
60.0	216.186	221.094	224.588	228.097	235.372	243.019	244.170	239.684	231.880	224.526
62.5	197.814	201.264	205.417	208.183	212.102	215.399	214.624	208.830	198.824	187.802
65.0	178.824	182.540	185.319	188.459	190.520	189.998	187.894	176.545	164.709	160.798
67.5	158.106	162.695	164.985	166.226	165.121	162.088	152.427	145.078	142.665	141.319
70.0	132.923	138.175	142.057	140.778	136.626	127.446	122.441	121.962	122.615	120.896
72.5	107.167	111.214	113.042	111.610	103.966	98.942	97.102	97.739	98.675	97.660
75.0	80.606	83.036	82.850	78.795	74.086	70.580	72.295	73.414	74.036	74.088
77.5	52.840	54.870	53.172	50.072	48.475	48.701	50.058	50.704	51.402	51.613
80.0	31.463	29.488	29.392	30.626	30.562	29.720	31.493	32.365	32.125	31.011
82.5	16.359	14.031	15.257	16.241	17.061	17.281	17.147	16.162	14.780	14.940
85.0	7.336	6.210	5.805	6.422	6.913	7.889	8.435	8.483	8.419	8.272
87.5	2.237	2.237	2.320	3.017	3.285	3.267	3.048	2.666	2.233	2.078
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>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962
2.5	1554.068	1558.599	1562.929	1567.051	1570.956	1574.636	1578.085	1581.296	1584.264	1586.984
5.0	1644.715	1653.770	1661.108	1668.139	1674.849	1681.226	1687.259	1692.796	1697.726	1701.980
7.5	1712.071	1724.604	1736.828	1748.191	1758.179	1767.999	1775.702	1782.665	1789.093	1794.977
10.0	1762.727	1777.803	1792.730	1807.485	1821.628	1831.721	1841.259	1850.060	1858.121	1865.441
12.5	1793.282	1812.137	1829.921	1846.580	1864.763	1876.057	1888.749	1900.246	1910.556	1916.819
15.0	1826.847	1848.320	1867.316	1884.589	1902.426	1917.916	1930.125	1941.307	1949.048	1955.533
17.5	1895.476	1912.840	1923.413	1934.039	1948.254	1959.397	1962.533	1966.761	1970.813	1974.066
20.0	1983.714	1996.242	2003.133	1999.979	1996.041	1990.326	1974.756	1965.141	1956.247	1949.199
22.5	2067.821	2070.144	2070.999	2049.195	2022.345	1992.423	1955.403	1919.855	1892.148	1876.361
25.0	2132.562	2120.543	2103.347	2065.139	2015.046	1962.701	1908.167	1853.446	1818.553	1790.245
27.5	2158.671	2130.217	2088.864	2045.203	1979.336	1909.103	1842.027	1779.343	1729.909	1698.360
30.0	2122.411	2096.320	2045.247	1974.385	1904.630	1829.303	1754.129	1687.991	1633.592	1588.115
32.5	2041.890	1998.722	1939.673	1862.002	1783.545	1700.170	1620.302	1548.439	1491.511	1449.689
35.0	1886.042	1829.847	1760.935	1686.968	1592.313	1508.427	1428.061	1358.673	1293.823	1246.071
37.5	1659.007	1605.056	1516.107	1427.174	1348.203	1259.693	1179.673	1106.815	1045.815	992.772
40.0	1386.087	1307.011	1227.764	1133.962	1042.307	971.197	895.574	843.699	797.370	746.931

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF1-L35-750-VF-XX-DIM-UNV_IES

CANDELA TABULATION - (Cont.)

42.5	1090.481	1013.892	916.130	807.581	695.117	690.424	665.876	619.342	571.030	519.740
45.0	814.653	735.453	634.498	580.050	539.938	503.654	459.987	436.784	415.867	393.736
47.5	593.725	531.139	490.593	445.879	405.768	383.688	357.029	323.599	288.992	269.165
50.0	451.687	418.936	373.223	351.961	325.543	298.665	267.170	253.009	241.857	239.583
52.5	359.187	336.407	317.519	291.565	262.716	252.029	243.506	234.368	224.904	219.056
55.0	307.004	290.612	269.525	258.153	245.208	233.927	224.400	221.014	218.762	217.607
57.5	263.174	254.134	240.428	232.983	227.227	222.319	220.842	218.021	215.905	215.522
60.0	219.277	212.294	207.044	208.472	211.429	210.834	213.266	214.153	212.699	209.951
62.5	180.609	182.399	183.450	185.752	189.803	194.583	197.437	199.213	195.516	193.985
65.0	159.889	160.681	161.069	161.945	165.251	167.824	170.662	174.405	175.116	176.788
67.5	140.795	140.282	139.356	138.622	140.124	141.461	143.758	148.221	152.583	157.655
70.0	119.255	118.564	117.868	117.022	116.755	116.660	116.761	121.755	126.339	129.980
72.5	96.699	96.650	96.866	95.766	93.918	92.373	91.220	94.192	97.402	98.377
75.0	73.710	74.050	73.982	71.796	69.396	67.816	66.803	67.732	69.383	68.144
77.5	51.379	50.906	50.223	48.154	45.288	43.342	42.479	42.205	42.187	40.718
80.0	29.695	28.500	27.104	26.328	25.738	25.869	27.348	28.799	30.166	29.959
82.5	15.303	16.206	16.907	17.208	16.624	16.395	17.528	18.566	19.156	19.020
85.0	8.122	8.268	8.269	8.114	7.538	7.101	7.868	8.554	8.339	7.947
87.5	1.948	1.835	1.739	1.654	1.581	1.531	2.202	2.818	2.729	2.651
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962	1455.962
2.5	1589.452	1591.665	1593.248	1595.732	1598.162	1600.373	1602.358	1604.109	1605.622	1606.889
5.0	1705.852	1709.334	1712.416	1715.091	1717.352	1719.192	1720.606	1721.039	1727.172	1728.135
7.5	1800.310	1805.087	1809.303	1815.120	1814.353	1814.788	1814.834	1814.496	1813.784	1812.966
10.0	1871.873	1874.737	1876.018	1875.597	1874.619	1873.123	1871.601	1869.777	1867.656	1865.243
12.5	1920.655	1922.398	1922.304	1919.930	1915.208	1909.665	1903.397	1897.990	1893.183	1888.077
15.0	1959.868	1958.517	1952.331	1945.293	1936.513	1926.265	1914.267	1902.010	1892.362	1884.085
17.5	1970.221	1963.557	1957.593	1948.780	1937.776	1927.232	1914.995	1902.436	1890.000	1881.994
20.0	1939.090	1932.346	1923.635	1917.358	1910.594	1900.546	1891.587	1882.401	1873.344	1865.785
22.5	1865.499	1863.702	1866.088	1867.529	1868.964	1868.146	1863.218	1858.281	1850.675	1843.928
25.0	1783.418	1784.389	1793.990	1807.489	1816.332	1823.622	1823.259	1819.967	1815.694	1812.060
27.5	1682.330	1686.742	1704.941	1726.108	1751.692	1758.199	1766.341	1762.108	1758.753	1755.229
30.0	1562.903	1562.460	1583.281	1617.578	1646.287	1673.324	1683.814	1682.294	1677.442	1671.860
32.5	1419.280	1407.285	1421.496	1455.605	1494.735	1531.093	1546.036	1552.184	1549.996	1549.343
35.0	1211.444	1192.497	1213.768	1258.794	1304.942	1337.682	1356.209	1351.281	1340.409	1334.023
37.5	973.671	959.427	956.452	989.403	1029.440	1068.664	1100.051	1092.095	1084.576	1080.077
40.0	713.941	709.255	707.822	729.174	770.108	803.973	815.958	807.771	794.163	787.802
42.5	489.455	496.967	503.894	511.431	549.358	556.282	542.453	518.851	495.498	493.917
45.0	360.295	334.003	317.354	325.744	368.095	393.649	388.612	381.397	373.278	377.651
47.5	267.701	261.021	261.302	268.074	285.578	305.022	303.852	299.147	291.601	284.656
50.0	237.730	231.092	226.161	225.661	237.180	252.392	264.267	270.760	271.777	270.282
52.5	218.606	218.789	219.404	222.186	230.780	244.318	256.312	263.291	265.046	264.115
55.0	217.064	216.755	216.908	218.838	224.955	237.142	249.069	256.110	258.307	257.790
57.5	215.503	215.114	214.783	214.205	217.178	227.368	239.116	246.259	248.875	248.542
60.0	208.104	205.437	203.340	202.303	205.572	215.020	227.355	235.446	238.785	239.000
62.5	193.699	192.561	190.991	190.619	194.417	202.413	215.068	224.814	228.569	229.451
65.0	178.338	179.352	178.195	178.808	182.928	190.611	202.820	213.206	218.300	219.896
67.5	162.123	165.686	162.155	160.437	161.742	166.199	174.183	181.667	184.236	184.332
70.0	131.746	131.872	129.669	128.774	129.880	133.316	139.009	145.116	146.860	146.633
72.5	98.346	97.554	96.732	96.897	98.300	100.910	104.421	108.906	109.643	108.872
75.0	65.406	63.652	63.418	64.847	66.966	68.908	70.335	72.983	72.558	71.180
77.5	38.077	38.069	39.937	43.531	47.038	49.685	51.209	53.976	54.328	53.795

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF1-L35-750-VF-XX-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

80.0	27.944	27.592	28.539	30.907	33.190	34.863	35.834	37.679	37.882	37.451
82.5	17.658	17.177	17.419	18.525	19.564	20.285	20.611	21.438	21.429	21.103
85.0	7.261	6.804	6.496	6.313	6.084	5.804	5.495	5.237	4.473	4.473
87.5	2.582	2.521	2.467	2.421	2.380	2.345	2.315	2.291	2.271	2.256
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert.
Angles**

Horizontal Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>
0.0	1455.962	1455.962	1455.962
2.5	1607.904	1608.664	1609.162
5.0	1729.104	1730.077	1731.051
7.5	1815.072	1816.837	1818.275
10.0	1863.735	1864.626	1865.241
12.5	1881.912	1880.461	1878.660
15.0	1875.550	1869.581	1865.241
17.5	1874.358	1868.240	1864.794
20.0	1859.531	1854.030	1850.704
22.5	1838.006	1833.930	1833.930
25.0	1808.876	1806.208	1807.838
27.5	1751.364	1747.576	1750.221
30.0	1666.892	1661.083	1664.516
32.5	1548.877	1543.662	1548.497
35.0	1332.065	1322.817	1327.487
37.5	1084.002	1071.867	1080.230
40.0	782.162	772.944	772.711
42.5	480.114	467.429	465.192
45.0	374.365	371.203	369.023
47.5	277.820	272.853	272.853
50.0	268.490	267.691	267.635
52.5	263.012	262.471	262.416
55.0	257.429	257.198	257.198
57.5	248.069	247.787	247.693
60.0	238.547	238.277	238.188
62.5	229.023	228.767	228.682
65.0	219.177	219.177	219.177
67.5	182.771	181.450	181.157
70.0	145.141	143.403	143.136
72.5	107.540	105.354	105.116
75.0	69.141	67.095	67.095
77.5	52.768	50.800	50.321
80.0	35.993	34.426	33.548
82.5	19.189	18.060	16.774
85.0	2.237	1.667	0.000
87.5	1.123	0.838	0.000
90.0	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF1-L35-750-VF-XX-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	555.50	N.A.	15.90
0-30	1297.35	N.A.	37.20
0-40	2267.47	N.A.	64.90
0-60	3257.88	N.A.	93.30
0-80	3481.88	N.A.	99.70
0-90	3491.88	N.A.	100.00
10-90	3356.64	N.A.	96.10
20-40	1711.97	N.A.	49.00
20-50	2432.91	N.A.	69.70
40-70	1146.3	N.A.	32.80
60-80	224.00	N.A.	6.40
70-80	68.10	N.A.	2.00
80-90	10.00	N.A.	0.30
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	3491.88	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.24
10-20	420.26
20-30	741.85
30-40	970.12
40-50	720.94
50-60	269.47
60-70	155.89
70-80	68.10
80-90	10.00
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 : VF1-L35-750-VF-XX-DIM-UNV_.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	117	117	117	117	111	111	111	107	107	107	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79
3	96	87	81	75	94	86	80	75	83	78	74	81	76	72	78	74	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44
8	67	55	47	42	66	54	47	42	53	46	41	52	46	41	51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32

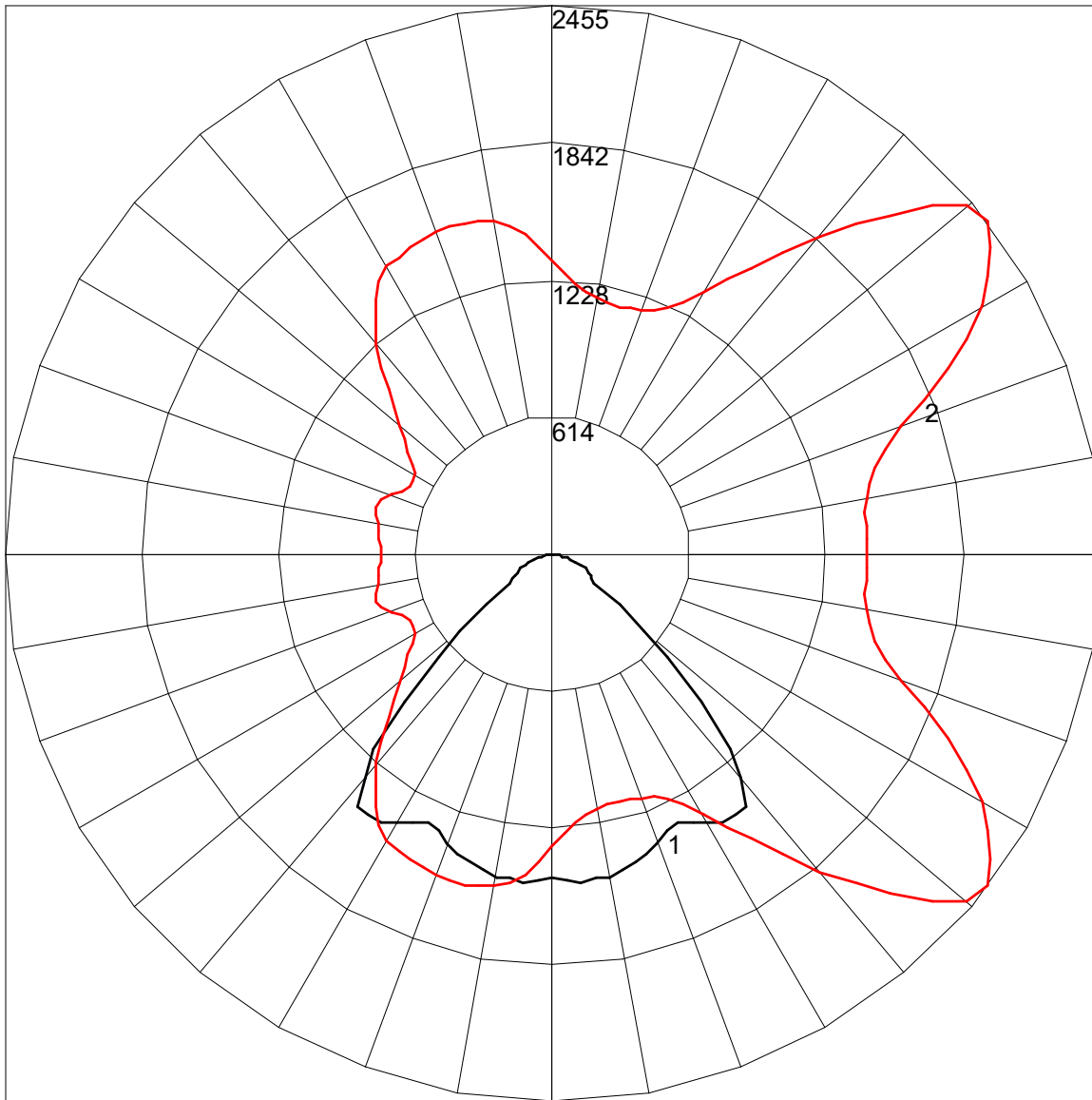
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF1-L35-750-VF-XX-DIM-UNV_.IES

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	12.9	14.3	13.2	14.6	14.9	4.3	4.3	4.3	4.3	4.3
	3H	14.2	15.5	14.6	15.8	16.2	4.3	4.3	4.3	4.3	4.3
	4H	14.5	15.7	14.9	16.0	16.4	4.3	4.3	4.3	4.3	4.3
	6H	14.7	15.8	15.2	16.2	16.6	4.3	4.3	4.3	4.3	4.3
	8H	14.7	15.8	15.2	16.1	16.5	4.3	4.3	4.3	4.3	4.3
	12H	14.7	15.7	15.1	16.1	16.5	4.3	4.3	4.3	4.3	4.3
4H	2H	12.9	14.1	13.3	14.4	14.8	4.5	5.7	4.9	6.1	6.5
	3H	14.5	15.4	14.9	15.8	16.2	5.0	6.0	5.4	6.4	6.8
	4H	14.9	15.7	15.3	16.1	16.6	5.0	5.9	5.5	6.3	6.7
	6H	15.1	15.9	15.6	16.3	16.8	5.0	5.7	5.4	6.2	6.6
	8H	15.2	15.8	15.6	16.3	16.8	5.0	5.6	5.4	6.1	6.6
	12H	15.2	15.7	15.6	16.2	16.7	5.0	5.6	5.5	6.0	6.5
8H	4H	14.8	15.5	15.3	15.9	16.4	6.2	6.9	6.7	7.3	7.8
	6H	15.1	15.7	15.6	16.2	16.6	6.3	6.8	6.8	7.3	7.8
	8H	15.2	15.7	15.7	16.2	16.7	6.3	6.8	6.8	7.3	7.8
	12H	15.1	15.6	15.6	16.1	16.6	6.3	6.7	6.8	7.2	7.8
12H	4H	14.8	15.4	15.2	15.8	16.3	6.4	7.0	6.9	7.4	7.9
	6H	15.0	15.6	15.6	16.0	16.6	6.4	7.0	7.0	7.4	8.0
	8H	15.1	15.6	15.6	16.1	16.6	6.5	6.9	7.0	7.4	8.0

Maximum UGR = 16.8

POLAR GRAPH



Maximum Candela = 2455.346 Located At Horizontal Angle = 37.5, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)