



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF1-L35-740-WF-XX-XXX-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM ATAL009592-R3
 [TESTLAB]ATAL-LABS
 [ISSUEDATE]10-10-22
 [MANUFAC]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT]VF1-L35-740-WF-MTG-CLR-OPT-DIM-UNV
 [LUMINAIRE]***THIS IS A REVISION OF ATAL009592-R2 TO UPDATE CATALOG
 [MORE]NUMBER***VOLTAIRE SMALL ARCHITECTURAL FLOOD LIGHT WITH WIDE
 [MORE]FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A CLEAR GLASS
 [MORE]LENS.
 [LAMPCAT]X16-LUXEON TX 4000K LEDS
 [LAMP](16) LUXEON TX 4000K LEDS
 [BALLASTCAT]X1-EUC-018S035DSP
 [BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 17.95, AMPS: 0.1506, VAC: 120.02, TEMP: 25.4 C
 [_SEARCH_SOURCE]TYPE] LED
 [_SEARCH_APPLICATION] Outdoor, Architectural, Facade, Landscape, Parking, Site, Flood, Wet Location
 [_SEARCH_MOUNTING] Arm, Ground, Pole, Post Top, Wall
 [_SEARCH_CERTIFICATION] DLC
 [_SEARCH_CLASSIFICATION] IP66

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	3570
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.96
Spacing Criterion (90-270)	2.06
Spacing Criterion (Diagonal)	1.76
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	17754	20079	20460
55	8213	9838	8588
65	3508	3117	3565
75	2125	2111	2310
85	0	756	274

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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	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583
2.5	896.691	896.694	896.702	896.715	896.733	896.757	896.786	896.820	896.858	896.902
5.0	896.135	896.135	896.135	896.135	896.135	896.135	896.731	897.122	897.474	897.778
7.5	913.369	913.283	913.024	912.593	912.655	912.595	912.358	911.947	910.720	911.035
10.0	949.504	948.860	947.912	948.114	948.560	948.558	948.072	947.064	947.662	947.748
12.5	1008.986	1008.358	1007.098	1008.875	1009.524	1009.492	1009.846	1011.019	1011.376	1010.897
15.0	1089.594	1089.139	1089.718	1091.684	1092.650	1093.174	1094.013	1094.118	1092.761	1097.982
17.5	1183.432	1179.843	1179.687	1180.721	1180.728	1182.950	1184.342	1185.483	1188.782	1191.256
20.0	1260.815	1259.065	1260.311	1262.049	1264.564	1267.739	1267.773	1267.679	1267.374	1267.948
22.5	1283.052	1282.867	1282.387	1281.739	1282.037	1282.679	1283.246	1284.453	1286.465	1289.381
25.0	1273.787	1273.864	1275.092	1276.239	1277.005	1277.947	1278.799	1279.641	1280.404	1281.096
27.5	1263.039	1263.213	1264.096	1265.015	1265.810	1267.171	1268.793	1269.332	1269.774	1269.989
30.0	1255.256	1255.283	1255.361	1255.655	1256.019	1257.627	1258.610	1259.226	1260.430	1261.529
32.5	1252.477	1252.504	1252.587	1253.655	1255.341	1257.977	1259.312	1260.239	1261.337	1263.091
35.0	1280.581	1280.214	1279.112	1278.145	1277.441	1276.930	1275.424	1273.421	1271.588	1272.423
37.5	1316.407	1316.029	1314.896	1313.095	1311.857	1311.521	1311.619	1310.074	1309.820	1309.967
40.0	1328.638	1328.506	1327.774	1324.722	1324.038	1324.398	1325.997	1328.645	1334.873	1344.214
42.5	1340.868	1340.735	1339.110	1333.325	1331.049	1326.736	1324.817	1325.158	1328.116	1335.031
45.0	1167.422	1168.215	1172.441	1177.499	1188.953	1199.460	1216.805	1237.087	1264.245	1303.378
47.5	993.976	993.651	997.813	1003.742	1013.865	1023.308	1037.788	1047.013	1054.957	1078.790
50.0	808.671	808.627	809.279	813.486	823.606	838.625	852.296	848.195	840.788	846.914
52.5	623.366	623.171	619.667	620.740	631.286	653.826	661.550	648.229	647.117	656.677
55.0	438.061	437.421	429.639	427.306	440.103	472.055	465.935	450.104	456.479	465.120
57.5	363.012	361.538	353.066	346.879	352.381	373.835	345.615	320.400	313.445	294.368
60.0	287.964	287.004	281.759	278.463	284.420	302.224	276.107	262.793	258.807	244.213
62.5	212.916	212.660	210.824	210.498	215.980	228.567	213.066	207.764	205.736	198.679
65.0	137.867	138.486	140.222	142.934	147.101	152.730	152.687	154.103	155.711	155.938
67.5	116.186	116.715	117.832	117.738	118.890	119.842	119.366	119.286	119.842	120.923
70.0	94.506	95.405	97.142	95.882	96.965	97.555	97.217	97.106	97.897	98.210
72.5	72.825	74.113	76.485	74.053	75.020	75.262	75.171	74.902	76.037	75.168
75.0	51.144	52.833	55.853	52.215	53.058	52.968	53.210	52.679	54.244	51.856
77.5	38.358	39.620	42.365	39.425	40.023	39.802	39.699	38.611	39.407	35.727
80.0	25.572	26.434	29.023	27.098	27.879	28.145	28.220	27.578	27.994	25.566
82.5	12.786	13.234	15.669	14.767	15.763	16.547	16.728	16.528	16.805	15.653
85.0	0.000	0.025	2.304	2.434	3.660	4.991	5.227	5.467	5.765	5.913
87.5	0.000	0.000	1.114	1.122	1.688	2.277	2.302	2.331	2.366	2.406
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	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583
2.5	896.951	897.072	897.179	897.296	897.423	897.560	897.707	897.864	898.030	898.206
5.0	898.029	898.223	898.355	898.420	898.415	898.293	899.166	899.759	900.301	900.790
7.5	911.840	913.187	914.312	915.205	915.857	916.260	916.409	915.935	917.796	918.089
10.0	945.567	947.252	947.692	950.577	952.874	954.400	955.135	955.063	953.513	958.298
12.5	1011.724	1013.859	1016.012	1018.053	1019.918	1022.912	1025.091	1026.447	1027.591	1031.007
15.0	1100.913	1103.002	1104.209	1109.407	1111.840	1111.865	1117.818	1121.093	1124.391	1127.104
17.5	1194.134	1197.946	1201.282	1204.880	1209.088	1213.231	1217.468	1220.211	1226.281	1229.787
20.0	1270.287	1273.517	1279.558	1287.321	1289.911	1292.303	1298.141	1304.219	1306.213	1311.526
22.5	1292.598	1295.339	1299.282	1299.486	1302.443	1306.784	1311.587	1318.728	1318.513	1321.749
25.0	1280.784	1280.181	1280.454	1281.381	1281.865	1281.544	1281.245	1284.121	1287.664	1289.202
27.5	1270.540	1271.318	1271.220	1270.556	1269.710	1269.902	1271.278	1272.003	1272.011	1272.913
30.0	1263.780	1265.778	1267.503	1268.914	1269.710	1269.710	1269.710	1270.137	1271.713	1273.754

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CANDELA TABULATION - (Cont.)

32.5	1264.399	1264.437	1263.884	1266.025	1268.585	1270.136	1272.508	1274.700	1276.352	1279.698
35.0	1276.213	1278.798	1280.196	1280.421	1278.851	1278.182	1283.883	1288.275	1293.663	1296.533
37.5	1309.526	1308.402	1307.157	1306.371	1309.062	1310.937	1312.759	1316.560	1321.657	1326.416
40.0	1349.530	1347.890	1346.039	1343.334	1341.907	1343.344	1348.593	1351.131	1352.323	1357.626
42.5	1342.701	1348.489	1357.031	1367.187	1365.912	1358.562	1357.729	1359.093	1372.242	1367.320
45.0	1324.594	1319.765	1311.145	1308.939	1313.452	1326.780	1334.353	1326.821	1320.280	1327.337
47.5	1112.670	1148.614	1178.600	1221.892	1226.639	1210.335	1204.186	1208.014	1220.818	1222.802
50.0	869.117	886.848	907.494	942.418	978.430	1002.863	1035.943	1020.072	1023.264	1026.549
52.5	671.316	665.924	662.966	660.290	651.425	663.466	722.251	769.163	792.833	792.218
55.0	473.021	478.726	484.565	480.067	446.496	429.524	444.868	496.750	524.746	544.344
57.5	284.170	299.751	314.350	319.443	309.209	322.342	337.150	327.077	304.391	321.930
60.0	235.008	225.017	213.849	204.831	201.389	217.967	230.924	230.957	221.552	217.359
62.5	194.385	188.338	181.292	174.166	168.122	162.313	156.487	153.707	159.646	160.854
65.0	156.454	154.430	150.505	145.555	141.208	136.550	131.658	126.601	122.482	117.218
67.5	122.235	123.012	121.327	118.638	115.576	112.102	108.224	105.287	102.745	99.681
70.0	98.361	98.399	96.228	94.232	92.033	89.120	86.074	85.839	85.126	83.971
72.5	74.416	73.852	72.356	71.796	71.131	69.492	67.734	67.987	68.594	68.607
75.0	50.415	49.667	48.884	50.164	50.987	50.795	50.401	50.413	50.812	51.437
77.5	33.140	31.001	29.285	30.384	31.524	32.876	33.098	32.854	33.539	34.868
80.0	23.963	22.286	21.135	22.429	22.832	22.647	21.587	20.029	19.585	19.754
82.5	14.964	13.673	13.011	14.503	14.650	14.209	13.578	12.785	12.829	13.088
85.0	6.093	5.144	4.894	6.586	6.460	5.757	5.799	5.808	6.125	6.481
87.5	2.453	1.801	1.594	2.460	2.122	1.414	1.451	1.507	1.572	1.645
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	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583
2.5	898.392	898.586	898.788	898.997	899.213	899.436	899.766	899.910	900.180	900.449
5.0	901.226	901.499	902.423	903.370	904.258	905.086	905.855	906.566	907.219	907.817
7.5	920.237	921.877	923.239	924.326	925.142	925.692	925.982	926.533	927.267	929.953
10.0	962.043	965.038	967.286	968.793	969.166	971.144	971.262	975.287	977.166	978.245
12.5	1034.566	1036.961	1038.193	1040.001	1043.058	1043.395	1048.756	1051.432	1054.909	1057.550
15.0	1129.986	1131.872	1133.939	1136.262	1137.646	1139.193	1145.524	1150.103	1153.541	1157.991
17.5	1233.037	1236.690	1240.462	1244.369	1244.610	1250.887	1254.320	1258.387	1264.629	1270.516
20.0	1317.589	1317.140	1318.954	1324.015	1325.438	1324.418	1325.824	1328.737	1333.023	1339.391
22.5	1328.031	1325.966	1327.481	1329.661	1334.531	1337.716	1336.877	1337.715	1339.560	1344.112
25.0	1289.313	1291.078	1295.530	1300.553	1303.220	1304.800	1306.523	1312.160	1317.081	1321.269
27.5	1275.850	1277.180	1278.611	1283.404	1288.364	1292.518	1296.157	1298.663	1301.115	1304.586
30.0	1275.743	1278.997	1281.943	1285.261	1289.260	1293.547	1298.427	1302.353	1304.928	1307.662
32.5	1282.151	1285.511	1289.887	1294.558	1299.001	1302.663	1306.464	1312.538	1317.085	1320.802
35.0	1300.638	1304.446	1308.172	1311.147	1315.105	1320.820	1325.604	1330.303	1334.055	1338.161
37.5	1329.772	1332.476	1334.775	1337.215	1341.220	1344.358	1347.063	1350.823	1356.367	1362.282
40.0	1360.264	1358.964	1361.724	1364.914	1360.987	1360.309	1363.140	1369.112	1376.732	1380.050
42.5	1365.923	1373.521	1367.806	1361.169	1360.894	1364.584	1365.156	1357.046	1356.662	1361.114
45.0	1348.716	1330.492	1324.350	1327.208	1327.421	1311.274	1303.321	1304.298	1314.943	1331.082
47.5	1215.648	1229.566	1238.667	1219.539	1206.880	1200.644	1209.942	1211.070	1202.144	1202.288
50.0	1038.126	1046.002	1044.060	1044.567	1036.004	1030.532	948.958	921.604	1035.647	1051.342
52.5	800.689	805.829	803.100	808.753	802.386	735.335	655.807	553.186	683.703	825.250
55.0	568.527	574.763	572.773	555.470	531.490	480.038	423.417	421.135	414.668	549.938
57.5	358.798	375.942	377.251	362.789	324.747	315.545	325.124	322.311	316.254	317.078
60.0	207.506	223.675	236.723	217.461	219.710	232.894	237.464	232.195	221.675	228.155
62.5	157.295	156.268	150.496	155.763	165.826	174.643	175.511	164.290	170.107	183.759
65.0	120.071	122.622	121.701	124.563	129.023	136.678	140.003	140.778	143.562	148.092
67.5	98.885	98.273	100.002	103.123	105.978	108.667	113.919	119.748	121.224	123.398

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CANDELA TABULATION - (Cont.)

70.0	83.179	82.681	82.890	83.710	85.949	87.862	90.463	94.850	99.872	102.044
72.5	67.841	67.189	66.994	67.381	67.882	67.417	68.785	72.148	77.105	80.672
75.0	51.772	51.395	51.019	50.908	50.718	50.324	49.807	49.144	53.442	58.285
77.5	35.526	35.371	35.198	35.049	34.771	34.124	33.739	33.133	33.978	36.518
80.0	19.642	19.755	19.839	20.437	21.189	21.253	20.441	19.030	20.595	21.886
82.5	12.424	11.308	9.927	9.344	9.092	10.041	10.677	10.913	11.115	10.914
85.0	6.386	6.100	5.626	5.595	5.591	5.514	5.340	5.034	4.548	4.527
87.5	1.728	1.825	1.936	2.066	2.224	2.449	2.628	2.736	2.745	2.612
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	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583
2.5	900.716	900.981	901.242	901.501	901.755	902.005	902.250	902.672	903.086	903.489
5.0	908.359	908.949	909.427	910.055	910.645	911.194	911.701	912.652	913.559	914.420
7.5	931.591	932.981	934.123	935.075	936.995	938.650	940.053	941.396	942.498	943.424
10.0	981.665	984.488	986.730	988.401	989.838	991.617	992.865	994.072	994.770	996.534
12.5	1059.349	1061.708	1064.827	1067.123	1068.590	1069.974	1070.693	1072.438	1073.956	1077.196
15.0	1162.604	1166.028	1169.434	1172.635	1174.459	1176.396	1178.540	1180.852	1183.341	1185.998
17.5	1276.672	1279.396	1283.989	1287.840	1291.285	1294.030	1296.394	1297.196	1300.037	1302.956
20.0	1346.012	1353.088	1355.753	1359.076	1363.381	1367.309	1369.404	1369.686	1373.581	1377.929
22.5	1349.251	1356.494	1362.427	1368.873	1372.515	1376.362	1378.670	1380.871	1382.973	1385.045
25.0	1325.180	1329.912	1334.034	1337.188	1339.422	1341.197	1343.462	1344.425	1347.111	1350.518
27.5	1308.957	1313.854	1319.197	1324.078	1328.005	1329.959	1332.608	1333.373	1336.516	1339.505
30.0	1310.640	1315.257	1320.068	1325.183	1330.295	1332.418	1335.308	1337.148	1341.368	1345.436
32.5	1324.668	1329.053	1333.734	1338.731	1343.560	1346.132	1349.206	1352.914	1357.734	1363.319
35.0	1343.654	1349.450	1355.999	1363.073	1369.267	1373.165	1376.693	1381.551	1385.668	1390.485
37.5	1369.040	1376.778	1384.806	1392.448	1399.229	1403.818	1407.577	1413.536	1417.197	1421.227
40.0	1380.762	1384.512	1390.629	1397.180	1402.982	1407.903	1412.025	1417.737	1422.290	1426.500
42.5	1367.116	1375.808	1386.046	1396.841	1404.380	1411.308	1416.472	1421.495	1424.757	1425.711
45.0	1326.433	1322.766	1324.492	1329.723	1336.219	1341.586	1345.315	1349.704	1355.328	1359.287
47.5	1209.253	1219.774	1232.542	1244.833	1259.597	1270.092	1274.158	1275.923	1277.842	1274.477
50.0	1064.761	1052.202	1036.659	1021.323	1011.481	1006.930	1002.130	1012.085	1027.659	1046.456
52.5	819.084	801.568	781.208	761.245	746.692	739.072	730.102	743.393	759.353	779.856
55.0	579.254	558.751	529.800	503.282	483.959	471.798	458.074	474.715	491.122	515.807
57.5	338.696	355.153	367.380	374.836	380.945	384.811	378.578	387.271	387.154	384.519
60.0	246.620	278.390	295.497	299.436	302.621	303.984	299.083	305.865	307.367	307.657
62.5	197.447	209.100	228.318	227.337	225.320	223.613	219.587	224.710	228.474	233.284
65.0	156.437	162.372	166.060	159.719	149.815	143.432	140.091	143.866	151.992	162.860
67.5	125.432	125.116	122.630	120.294	118.817	119.217	118.966	120.076	121.582	122.219
70.0	102.946	101.646	101.652	100.053	98.122	98.053	97.842	99.103	101.071	101.348
72.5	81.998	81.706	79.760	80.007	78.655	77.577	76.717	77.911	79.362	79.999
75.0	60.477	61.414	60.505	59.139	58.636	57.250	55.592	57.256	58.812	59.439
77.5	39.698	40.721	40.922	39.645	42.324	43.437	42.250	43.550	42.324	40.978
80.0	22.531	23.014	24.018	27.895	29.030	29.354	28.908	30.006	29.345	27.895
82.5	11.179	11.828	13.642	15.463	17.167	16.730	15.566	16.730	17.167	15.463
85.0	4.471	4.857	5.922	7.153	7.079	4.768	2.224	4.805	7.079	6.366
87.5	2.265	2.224	2.224	2.675	2.570	1.572	1.112	1.572	2.549	2.675
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	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583
2.5	903.880	904.256	904.614	904.952	905.269	905.719	905.875	906.203	906.511	906.800

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CANDELA TABULATION - (Cont.)

5.0	915.233	916.086	917.012	917.870	918.653	919.358	919.981	920.518	920.967	921.324
7.5	944.721	945.849	946.691	947.239	946.689	947.915	949.242	950.825	952.140	953.182
10.0	998.327	999.541	1000.161	1000.379	1002.174	1003.227	1001.916	1004.419	1005.540	1008.627
12.5	1079.525	1080.917	1083.243	1086.231	1088.169	1089.038	1091.504	1091.531	1096.561	1098.233
15.0	1187.378	1189.929	1193.669	1196.022	1198.275	1201.458	1203.553	1204.785	1206.988	1209.594
17.5	1305.556	1308.455	1313.455	1315.463	1317.771	1319.373	1322.219	1325.657	1327.526	1331.090
20.0	1384.268	1392.050	1393.189	1393.508	1394.544	1396.242	1400.202	1403.605	1408.789	1412.578
22.5	1386.819	1389.493	1392.871	1396.967	1399.049	1403.485	1405.538	1409.379	1410.980	1411.319
25.0	1354.546	1359.860	1365.972	1368.911	1370.631	1369.472	1366.891	1369.757	1373.284	1375.169
27.5	1342.381	1346.043	1348.370	1349.378	1349.591	1351.678	1355.023	1356.626	1356.689	1355.936
30.0	1349.743	1353.985	1356.640	1359.558	1361.367	1361.956	1363.017	1364.561	1364.093	1364.507
32.5	1369.665	1374.519	1377.493	1379.021	1378.985	1378.320	1377.775	1378.464	1379.802	1380.817
35.0	1396.034	1398.708	1399.992	1400.847	1401.007	1399.794	1400.422	1401.524	1402.305	1403.439
37.5	1424.090	1424.729	1423.893	1424.062	1422.028	1421.669	1424.816	1429.270	1430.674	1432.250
40.0	1429.579	1431.472	1434.665	1439.737	1440.798	1438.549	1439.890	1442.832	1449.037	1455.172
42.5	1424.836	1422.470	1419.444	1416.849	1416.853	1423.817	1437.816	1441.685	1438.823	1440.585
45.0	1362.021	1366.536	1373.744	1382.183	1370.627	1365.186	1368.729	1376.870	1392.753	1393.112
47.5	1266.017	1257.908	1250.765	1247.682	1252.211	1265.075	1264.281	1255.054	1260.993	1270.568
50.0	1064.477	1084.297	1099.723	1091.203	1081.377	954.440	984.105	1073.003	1079.296	1084.537
52.5	802.926	826.501	847.396	864.318	705.436	558.554	673.901	762.104	830.859	844.702
55.0	544.717	576.090	606.360	585.464	421.050	428.845	432.484	496.041	554.469	584.001
57.5	377.468	365.893	380.745	332.204	327.120	331.754	334.951	327.206	338.514	374.162
60.0	303.479	295.933	270.980	241.552	232.129	239.835	245.892	240.339	223.143	217.410
62.5	234.213	231.592	206.728	192.639	175.674	169.320	178.657	174.032	162.650	150.856
65.0	171.309	168.412	162.820	151.762	146.906	141.683	136.200	130.947	121.649	118.570
67.5	122.630	127.192	127.408	125.073	121.607	116.693	107.562	100.311	100.179	99.691
70.0	101.646	102.903	102.946	102.148	97.902	89.235	84.468	83.216	82.946	82.379
72.5	81.884	81.706	81.998	79.701	72.217	68.343	66.342	65.960	66.425	66.411
75.0	60.457	61.414	59.661	55.098	51.627	48.736	49.522	50.065	50.403	50.594
77.5	40.922	40.300	37.914	35.334	34.088	34.097	34.751	35.091	35.554	35.693
80.0	24.018	21.884	21.130	21.817	21.706	21.146	22.358	22.935	22.776	22.038
82.5	12.459	10.488	11.128	11.802	12.518	12.838	12.848	12.195	11.261	11.294
85.0	5.683	4.857	4.648	5.234	5.711	6.439	6.829	6.789	6.687	6.539
87.5	2.224	2.224	2.286	2.805	3.005	2.992	2.828	2.538	2.220	2.066
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>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	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583
2.5	907.069	907.316	907.543	907.747	907.930	908.090	908.227	908.342	908.433	908.500
5.0	921.587	921.971	922.799	923.501	924.076	924.524	924.843	924.781	925.544	926.084
7.5	953.944	954.423	954.615	955.163	956.614	956.957	959.294	960.744	961.756	962.337
10.0	1010.975	1012.569	1013.400	1013.461	1012.161	1015.694	1017.456	1018.178	1017.878	1016.578
12.5	1099.856	1101.276	1101.510	1100.557	1102.576	1101.937	1103.085	1103.109	1102.018	1101.329
15.0	1211.102	1212.870	1214.982	1216.146	1216.146	1215.361	1214.686	1210.830	1213.367	1212.647
17.5	1331.651	1332.151	1332.242	1333.599	1335.368	1336.851	1337.141	1336.528	1336.207	1336.713
20.0	1411.816	1415.207	1421.045	1418.795	1418.070	1422.011	1418.694	1415.987	1417.305	1418.320
22.5	1413.614	1416.355	1423.143	1420.279	1420.842	1425.441	1420.498	1418.758	1418.413	1419.538
25.0	1374.183	1373.353	1374.389	1377.394	1377.802	1376.382	1376.826	1379.706	1381.712	1381.277
27.5	1356.972	1359.707	1360.977	1359.686	1360.950	1362.580	1362.179	1360.880	1361.478	1362.757
30.0	1366.114	1367.429	1367.879	1368.371	1368.163	1367.735	1367.714	1367.305	1366.435	1366.841
32.5	1381.232	1381.894	1382.595	1381.807	1380.130	1379.675	1379.999	1380.641	1381.854	1382.588
35.0	1405.163	1405.176	1403.493	1401.223	1401.530	1401.212	1401.296	1400.406	1403.698	1409.226
37.5	1431.602	1432.352	1431.381	1430.650	1429.971	1429.528	1430.420	1433.184	1436.694	1442.068
40.0	1453.690	1452.189	1456.462	1455.598	1451.555	1454.240	1457.661	1457.346	1459.578	1465.182

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CANDELA TABULATION - (Cont.)

42.5	1448.422	1455.291	1446.110	1447.992	1455.453	1446.465	1449.381	1454.642	1466.904	1468.456
45.0	1389.119	1391.936	1407.158	1388.458	1385.265	1396.153	1407.521	1382.695	1353.598	1335.067
47.5	1284.757	1274.036	1259.902	1265.393	1265.761	1239.648	1216.768	1198.106	1189.838	1177.533
50.0	1081.652	1081.774	1070.787	1048.650	1027.442	1006.063	997.743	964.335	943.160	919.551
52.5	837.309	833.825	819.651	794.528	774.893	750.969	708.829	656.211	649.431	662.948
55.0	595.590	587.860	569.841	549.065	526.445	500.986	452.763	438.464	453.761	486.052
57.5	383.160	379.591	363.557	330.192	314.966	336.519	345.795	330.133	316.736	327.539
60.0	236.172	223.429	209.467	222.303	228.416	237.309	236.855	223.817	207.697	212.429
62.5	145.223	154.077	157.079	162.620	162.451	156.525	159.491	165.399	171.633	178.231
65.0	117.915	121.107	119.821	117.376	123.115	127.547	132.496	136.925	141.831	146.756
67.5	98.760	98.260	98.645	98.973	102.121	104.772	107.345	110.234	113.307	117.019
70.0	82.269	82.559	82.823	82.887	83.485	84.074	83.880	85.700	88.264	92.009
72.5	66.558	67.071	67.619	67.278	66.581	65.978	65.547	66.936	68.456	70.559
75.0	50.874	51.488	51.788	50.820	49.681	48.913	48.401	48.767	49.482	49.961
77.5	35.841	35.854	35.687	34.663	33.128	32.015	31.414	31.101	30.954	31.140
80.0	21.311	20.772	20.064	19.754	19.585	19.786	20.737	21.688	22.537	23.014
82.5	11.527	12.240	12.798	13.088	12.829	12.780	13.642	14.444	14.792	14.954
85.0	6.409	6.544	6.569	6.481	6.125	5.865	6.630	7.344	7.172	6.941
87.5	1.936	1.825	1.728	1.645	1.572	1.523	2.189	2.802	2.714	2.636
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	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583	900.583
2.5	908.544	908.565	908.437	908.632	908.807	908.963	909.099	909.214	909.309	909.382
5.0	926.515	926.838	927.054	927.166	927.175	927.084	926.896	926.349	927.562	928.041
7.5	962.494	962.239	961.586	962.388	962.363	963.301	963.968	964.365	964.491	964.478
10.0	1014.462	1014.555	1014.968	1015.720	1015.770	1015.189	1016.842	1017.946	1018.513	1018.553
12.5	1100.105	1098.832	1097.711	1097.735	1098.803	1098.821	1097.811	1098.033	1098.760	1098.515
15.0	1210.835	1210.426	1211.272	1210.554	1206.680	1208.521	1208.031	1206.261	1206.049	1206.015
17.5	1335.130	1333.038	1331.352	1330.232	1329.101	1327.465	1331.054	1327.124	1324.599	1324.300
20.0	1412.525	1409.002	1406.330	1404.430	1403.543	1402.686	1401.771	1402.924	1400.683	1398.704
22.5	1421.379	1415.818	1412.274	1408.572	1406.149	1405.053	1404.655	1405.685	1407.319	1409.275
25.0	1378.002	1373.378	1375.782	1377.186	1377.285	1376.882	1376.006	1375.391	1375.008	1375.167
27.5	1363.372	1361.850	1358.319	1356.528	1357.090	1359.348	1361.135	1363.001	1364.484	1365.978
30.0	1368.113	1370.339	1371.228	1371.160	1371.105	1370.822	1371.670	1372.670	1373.077	1374.278
32.5	1382.242	1386.479	1392.096	1394.360	1395.456	1395.688	1396.234	1396.380	1395.857	1395.811
35.0	1413.753	1416.871	1420.632	1423.186	1423.966	1424.407	1424.774	1425.303	1425.641	1425.947
37.5	1444.814	1447.925	1450.292	1453.818	1455.898	1457.041	1457.572	1458.162	1458.828	1459.508
40.0	1471.742	1476.598	1479.886	1469.985	1451.822	1436.431	1422.093	1409.997	1400.878	1394.869
42.5	1442.304	1419.854	1403.360	1381.875	1365.109	1353.850	1342.788	1331.454	1323.569	1319.373
45.0	1315.038	1304.087	1305.657	1282.447	1248.712	1225.041	1207.966	1190.243	1180.468	1172.006
47.5	1143.327	1113.521	1095.766	1079.338	1058.858	1042.211	1033.801	1022.800	1020.728	1016.349
50.0	897.752	877.668	867.921	866.476	861.504	853.424	851.596	839.393	830.830	825.227
52.5	667.702	669.486	671.533	668.031	662.717	659.096	664.516	653.932	636.229	629.892
55.0	491.507	486.563	479.360	473.666	466.970	461.920	474.274	472.014	443.019	434.173
57.5	323.953	310.231	295.128	303.794	319.585	328.795	355.715	373.102	353.438	351.525
60.0	222.765	233.115	242.424	251.151	262.692	267.451	284.083	300.363	284.023	280.877
62.5	185.777	192.309	197.706	202.182	207.525	209.383	216.450	225.484	214.526	210.678
65.0	151.203	154.234	155.472	155.608	154.988	152.957	151.687	148.977	144.952	140.878
67.5	118.817	118.222	117.885	117.882	117.735	117.254	117.142	115.989	115.978	114.959
70.0	94.228	94.723	94.607	95.227	95.930	95.529	94.993	93.925	93.462	92.582
72.5	71.858	71.228	71.262	72.401	74.079	73.920	72.947	71.830	71.022	70.194
75.0	49.996	48.183	47.864	49.441	52.189	52.406	50.986	49.708	48.644	47.796
77.5	31.388	30.559	31.195	33.838	37.567	38.611	37.936	37.375	36.923	36.576

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CANDELA TABULATION - (Cont.)

80.0	23.081	22.495	22.626	24.275	26.742	27.468	27.031	26.576	26.210	25.929
82.5	14.835	14.398	14.238	14.961	16.143	16.441	16.114	15.770	15.493	15.280
85.0	6.632	6.277	5.978	5.821	5.694	5.457	5.188	4.957	4.447	4.447
87.5	2.567	2.506	2.453	2.406	2.366	2.331	2.302	2.277	2.258	2.243
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	900.583	900.583	900.583
2.5	909.435	909.467	909.477
5.0	928.522	929.006	929.490
7.5	965.866	966.990	967.849
10.0	1019.032	1021.192	1022.884
12.5	1096.849	1100.880	1104.604
15.0	1207.176	1207.580	1211.895
17.5	1323.058	1323.089	1326.636
20.0	1396.791	1395.449	1396.829
22.5	1411.012	1411.928	1409.801
25.0	1375.764	1377.111	1374.593
27.5	1367.242	1368.369	1367.551
30.0	1375.228	1376.168	1376.446
32.5	1396.211	1398.131	1398.683
35.0	1426.308	1428.226	1429.814
37.5	1459.538	1460.945	1463.169
40.0	1390.731	1386.820	1383.117
42.5	1316.978	1311.268	1303.065
45.0	1167.358	1162.140	1154.080
47.5	1013.923	1009.542	1005.095
50.0	822.063	820.089	819.049
52.5	628.326	628.388	633.002
55.0	434.459	434.567	446.956
57.5	356.276	360.177	368.572
60.0	283.306	285.153	290.188
62.5	210.577	210.249	211.804
65.0	135.643	134.827	133.420
67.5	114.094	113.001	111.739
70.0	91.795	90.963	90.059
72.5	69.492	68.901	68.378
75.0	46.697	46.697	46.697
77.5	36.297	35.630	35.579
80.0	25.688	24.502	24.461
82.5	15.094	13.374	13.342
85.0	4.426	2.224	2.224
87.5	2.229	1.113	1.112
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	426.41	N.A.	11.90
0-30	1045.49	N.A.	29.30
0-40	1900.58	N.A.	53.20
0-60	3351.47	N.A.	93.90
0-80	3561.51	N.A.	99.70
0-90	3570.48	N.A.	100.00
10-90	3481.07	N.A.	97.50
20-40	1474.17	N.A.	41.30
20-50	2447.12	N.A.	68.50
40-70	1603.3	N.A.	44.90
60-80	210.04	N.A.	5.90
70-80	57.63	N.A.	1.60
80-90	8.97	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	3570.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	89.41
10-20	337.00
20-30	619.08
30-40	855.09
40-50	972.95
50-60	477.94
60-70	152.41
70-80	57.63
80-90	8.97
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-L35-740-WF-XX-XXX-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	116	116	116	116	111	111	111	107	107	107	102	102	102	100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	63	60	58
5	80	68	60	54	78	67	60	54	65	58	53	63	57	53	62	56	52	50
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	42	37	49	42	37	48	41	36	46	41	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	32	31
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28

IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF1-L35-740-WF-XX-XXX-DIM-UNV_.IES

UGR TABLE - CORRECTED

Reflectances

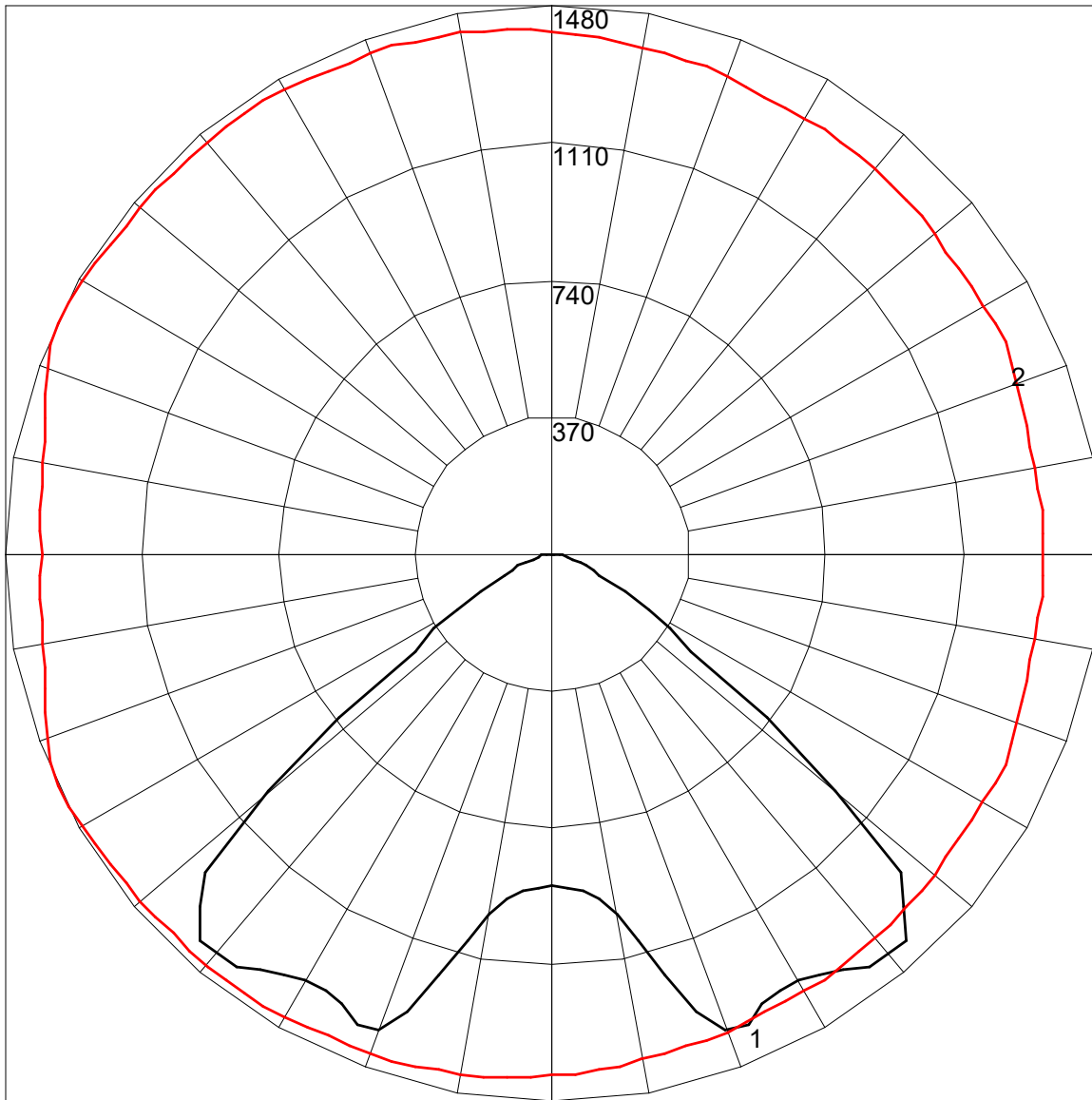
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

X=2H	Y=2H	15.5	17.0	15.9	17.3	17.6	UGR Viewed Endwise				
	3H	16.3	17.6	16.7	18.0	18.3	4.4	4.4	4.4	4.4	4.4
	4H	16.5	17.8	16.9	18.1	18.5	4.4	4.4	4.4	4.4	4.4
	6H	16.7	17.8	17.1	18.2	18.6	4.4	4.4	4.4	4.4	4.4
	8H	16.7	17.8	17.1	18.1	18.5	4.4	4.4	4.4	4.4	4.4
	12H	16.7	17.7	17.1	18.1	18.5	4.4	4.4	4.4	4.4	4.4
4H	2H	15.4	16.6	15.8	17.0	17.4	4.4	5.3	4.5	5.6	6.0
	3H	16.4	17.4	16.8	17.8	18.2	4.5	5.5	4.9	5.9	6.3
	4H	16.7	17.5	17.1	18.0	18.4	4.5	5.4	5.0	5.8	6.3
	6H	16.8	17.6	17.3	18.1	18.5	4.5	5.3	4.9	5.7	6.2
	8H	16.9	17.6	17.4	18.1	18.5	4.5	5.2	4.9	5.6	6.1
	12H	16.9	17.5	17.4	18.0	18.5	4.5	5.1	5.0	5.6	6.1
8H	4H	16.6	17.3	17.0	17.7	18.2	5.8	6.6	6.3	7.0	7.5
	6H	16.8	17.4	17.3	17.9	18.4	5.9	6.5	6.4	7.0	7.5
	8H	16.9	17.4	17.4	17.9	18.4	5.9	6.4	6.4	7.0	7.4
	12H	16.8	17.3	17.3	17.8	18.4	5.9	6.4	6.4	6.9	7.5
12H	4H	16.5	17.2	17.0	17.7	18.1	6.1	6.7	6.5	7.2	7.7
	6H	16.8	17.3	17.3	17.8	18.3	6.2	6.7	6.7	7.2	7.7
	8H	16.8	17.3	17.3	17.8	18.3	6.2	6.7	6.7	7.2	7.7

Maximum UGR = 18.6

POLAR GRAPH



Maximum Candela = 1479.886 Located At Horizontal Angle = 155, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)