



IES INDOOR REPORT

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

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]GEN FROM ATAL009596-R2
 [TESTLAB]ATAL-LABS
 [ISSUE]28-NOV-2022
 [MANUFAC]WILLIAMS OUTDOOR
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT]VF1-L35-750-NS-xx-DIM-UNV
 [LUMINAIRE]VOLTAIRE SMALL ARCHITECTURAL FLOOD LIGHT WITH NARROW
 [MORE]SPOT 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-042S070DS
 [BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
 [OTHER]INPUT WATTS: 36.22, AMPS: 0.3043, VAC: 120.05, TEMP: 25.6 C
 [_SEARCH_SOURCE] 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	3456
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.32
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.48 ft (Diameter)
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	9004	9413	9377
55	10508	12375	10114
65	21037	23522	20502
75	15428	15122	12517
85	0	7371	2593

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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	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753
2.5	20052.053	20040.752	20030.650	20021.797	20014.238	20008.017	20003.175	19999.747	19997.766	19997.260
5.0	18508.809	18475.602	18449.345	18430.240	18418.474	18427.573	18354.060	18319.923	18294.434	18277.786
7.5	14995.610	14933.619	14897.826	14888.675	14845.009	14822.860	14827.019	14857.374	15009.792	14966.268
10.0	10267.020	10176.725	10123.373	10078.655	10055.206	10063.392	10101.514	10167.886	10121.903	10089.870
12.5	6041.578	5972.799	5949.560	5929.122	5949.179	5994.117	6028.446	6029.560	6041.353	6060.416
15.0	3555.207	3566.502	3567.166	3551.247	3556.468	3573.667	3588.300	3613.243	3660.319	3648.673
17.5	2334.258	2337.342	2321.854	2301.070	2288.199	2272.030	2272.456	2292.220	2299.622	2310.012
20.0	1545.770	1545.104	1538.785	1536.168	1528.930	1526.592	1524.125	1521.434	1527.048	1530.028
22.5	1024.617	1023.804	1031.094	1045.115	1048.653	1054.032	1055.872	1056.957	1058.696	1059.336
25.0	725.613	725.146	731.069	739.443	739.354	741.333	741.351	744.246	750.388	752.830
27.5	518.535	518.215	522.004	525.438	526.033	525.235	524.583	529.852	538.608	532.417
30.0	376.493	376.393	377.537	375.531	372.707	366.107	363.818	370.280	376.292	380.469
32.5	297.531	299.375	302.126	292.856	280.640	267.689	267.598	271.824	274.684	275.955
35.0	227.271	229.267	231.513	223.046	212.056	199.947	198.836	199.730	201.596	203.521
37.5	159.188	160.844	162.119	162.731	163.534	163.886	165.203	166.764	168.062	168.595
40.0	137.711	138.386	138.431	138.018	138.890	139.614	140.166	140.508	139.927	139.235
42.5	116.233	116.471	116.925	117.013	118.514	119.488	121.042	122.427	123.151	123.708
45.0	106.758	106.861	106.996	106.996	107.677	107.830	108.756	109.145	109.542	109.605
47.5	97.282	97.385	97.685	98.150	98.809	99.533	100.536	100.589	101.501	101.612
50.0	98.545	98.306	98.825	99.464	99.944	100.294	100.245	99.037	98.191	95.736
52.5	99.809	99.370	100.551	102.050	103.385	104.825	105.771	106.065	106.474	106.359
55.0	101.072	100.460	102.384	104.797	107.044	109.768	111.818	113.699	115.935	118.919
57.5	113.074	112.219	113.462	114.764	116.228	118.150	119.262	121.292	124.717	131.504
60.0	125.077	124.070	124.858	125.295	126.401	127.302	126.967	127.907	129.981	134.689
62.5	137.079	135.902	136.182	135.672	136.500	136.093	134.432	134.110	134.354	136.101
65.0	149.081	147.719	147.443	145.913	146.496	144.392	141.545	139.526	137.626	136.294
67.5	128.551	127.760	128.477	128.092	130.010	129.949	129.581	129.592	129.546	129.314
70.0	108.021	107.531	108.486	108.020	109.551	109.589	109.546	109.292	109.315	109.007
72.5	87.490	87.301	88.513	88.011	89.129	89.283	89.555	88.977	89.121	88.821
75.0	66.960	67.070	68.552	67.945	68.736	69.026	69.599	68.654	68.960	68.738
77.5	50.220	50.524	52.028	51.827	52.347	52.432	53.074	52.048	52.098	51.598
80.0	33.480	34.003	35.573	35.909	36.329	36.444	37.401	36.809	36.962	36.768
82.5	16.740	17.487	19.110	19.987	20.305	20.484	21.740	21.622	21.889	22.003
85.0	0.000	0.973	2.640	4.061	4.275	4.542	6.082	6.451	6.857	7.282
87.5	0.000	0.473	1.267	1.911	1.924	1.941	2.611	2.649	2.689	2.735
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	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753
2.5	20004.126	19967.381	19950.591	19935.758	19922.916	19912.098	19903.329	19896.630	19892.016	19889.496
5.0	18270.145	18271.652	18282.418	18302.523	18332.016	18385.662	18308.629	18281.009	18266.468	18265.051
7.5	14933.714	14855.912	14802.773	14774.520	14771.318	14793.271	14840.422	14967.450	14858.953	14967.104
10.0	10200.472	10079.349	10120.527	10112.196	10105.733	10102.889	10102.300	10102.971	10110.172	10074.549
12.5	6066.295	6056.060	6087.086	6145.585	6178.952	6185.655	6174.432	6143.779	6104.479	6109.962
15.0	3655.453	3660.182	3675.265	3671.541	3696.304	3726.947	3711.298	3703.033	3704.000	3694.636
17.5	2314.044	2305.617	2292.142	2285.729	2302.123	2304.425	2296.006	2311.321	2299.534	2296.794
20.0	1528.591	1532.407	1509.319	1501.079	1495.544	1499.642	1490.354	1486.845	1503.572	1508.632
22.5	1054.907	1043.152	1031.003	1027.952	1031.341	1035.530	1039.456	1037.052	1049.030	1051.170
25.0	746.330	740.914	746.674	747.987	750.841	751.528	750.994	757.178	761.277	762.668
27.5	533.226	537.589	541.371	544.877	546.615	546.064	549.457	550.914	549.989	549.887
30.0	383.528	386.930	389.490	385.983	381.757	387.227	389.358	388.545	391.246	394.467

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32.5	276.414	281.552	285.124	286.928	283.793	279.087	278.365	281.967	284.810	285.885
35.0	208.027	212.935	216.570	215.639	210.096	207.838	211.615	214.632	216.147	215.357
37.5	167.328	166.830	166.124	165.357	168.078	169.328	168.953	167.820	168.086	170.846
40.0	139.058	139.854	140.751	141.381	141.815	141.314	140.384	140.712	141.391	140.717
42.5	123.004	122.555	122.090	121.843	123.027	123.695	123.290	122.980	121.996	123.175
45.0	109.730	110.445	110.773	110.953	111.227	111.136	111.104	111.517	111.616	111.508
47.5	101.667	101.813	101.676	101.451	102.261	103.044	103.462	103.705	103.368	103.364
50.0	94.564	95.512	96.313	98.146	99.003	98.737	97.479	98.881	99.237	100.711
52.5	105.604	103.419	101.099	98.496	99.932	101.524	103.467	102.500	100.916	103.426
55.0	120.646	120.066	120.965	120.410	118.113	116.097	114.106	117.229	119.024	117.549
57.5	136.799	138.918	142.771	143.511	142.384	142.529	141.730	140.413	140.990	142.811
60.0	137.770	143.522	152.334	160.354	168.494	169.412	167.319	163.457	161.568	162.203
62.5	136.788	140.670	145.832	151.262	159.619	170.625	178.001	182.912	175.870	172.035
65.0	134.626	135.849	137.424	140.057	145.588	152.337	157.187	163.144	166.698	171.371
67.5	128.838	129.259	127.296	126.964	128.989	131.738	134.882	138.034	140.840	143.870
70.0	108.661	108.787	108.361	108.455	109.210	109.926	111.217	112.447	114.394	114.667
72.5	88.424	88.055	87.426	86.987	87.001	87.197	87.803	88.221	88.742	84.983
75.0	68.141	67.351	66.507	65.338	64.627	64.398	64.728	65.476	65.629	63.295
77.5	50.500	49.058	47.313	44.467	42.228	41.547	41.967	43.076	43.678	43.189
80.0	36.112	35.419	34.481	32.622	30.829	29.043	28.027	27.279	26.438	25.479
82.5	21.855	21.996	21.934	21.100	20.297	19.446	19.121	18.850	18.504	18.063
85.0	7.690	8.718	9.588	9.808	9.993	10.111	10.366	10.595	10.772	10.882
87.5	2.788	3.249	3.646	3.744	3.855	3.980	4.121	4.282	4.464	4.672
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	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753
2.5	19889.076	19890.753	19894.522	19900.370	19908.280	19918.230	19945.863	19932.781	19921.632	19911.889
5.0	18276.756	18341.953	18273.800	18230.877	18197.811	18174.567	18161.078	18157.240	18162.916	18177.938
7.5	14791.820	14710.534	14652.078	14616.632	14604.352	14615.357	14649.736	14655.514	14667.920	14511.544
10.0	10042.211	10011.897	9984.584	9961.629	9981.407	9870.841	9911.591	9832.491	9851.184	9909.015
12.5	6131.125	6134.764	6122.071	6092.542	6044.434	6069.885	6024.161	6028.237	6003.274	5987.182
15.0	3715.349	3718.987	3714.841	3698.356	3660.696	3694.589	3682.605	3683.043	3683.058	3662.957
17.5	2304.482	2321.344	2339.337	2341.006	2366.069	2348.368	2355.881	2357.682	2345.398	2335.964
20.0	1504.219	1518.548	1523.926	1522.710	1521.372	1541.661	1556.297	1565.335	1578.916	1562.981
22.5	1049.588	1054.497	1059.036	1063.428	1061.546	1068.897	1085.329	1099.326	1105.976	1117.090
25.0	762.478	767.814	768.796	776.906	781.544	783.588	784.325	791.812	802.853	804.397
27.5	554.626	557.118	558.582	562.101	567.896	572.487	575.964	578.216	579.496	581.859
30.0	393.345	393.723	392.849	383.245	388.095	402.962	400.126	397.176	407.182	401.072
32.5	285.990	284.769	284.790	285.142	283.612	281.926	277.360	269.134	280.233	301.820
35.0	217.809	222.337	224.818	221.080	218.346	217.813	216.232	214.152	213.268	223.043
37.5	170.738	170.871	177.204	179.017	174.922	170.525	169.709	171.083	172.600	174.798
40.0	141.053	142.617	142.741	142.575	143.106	144.404	144.822	144.044	142.485	141.801
42.5	123.832	123.412	124.289	125.152	125.502	125.344	124.923	125.700	126.020	126.209
45.0	111.213	112.055	112.600	112.827	112.361	112.795	113.425	113.556	113.127	111.993
47.5	104.227	103.869	103.635	104.284	104.262	104.036	103.703	103.695	103.888	103.644
50.0	100.289	100.304	100.246	98.674	98.321	97.895	99.560	98.680	97.024	96.212
52.5	104.067	104.481	102.736	100.512	100.330	103.737	102.327	98.665	99.516	103.426
55.0	115.903	118.428	115.747	115.213	118.796	117.636	116.291	117.209	118.167	119.230
57.5	143.175	141.514	140.535	141.893	142.850	140.817	140.241	141.295	141.159	139.160
60.0	167.985	167.933	164.448	166.615	161.839	158.186	159.639	164.324	165.778	155.811
62.5	172.723	173.071	178.434	173.294	166.135	163.960	167.778	177.207	168.177	153.632
65.0	167.866	164.764	165.014	161.593	158.611	156.040	159.887	156.985	152.342	145.769
67.5	144.737	147.070	144.514	139.905	137.368	137.378	135.594	134.139	131.472	127.952

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CANDELA TABULATION - (Cont.)

70.0	114.457	115.418	115.853	115.418	113.075	111.909	111.172	110.034	108.591	106.236
72.5	83.548	85.065	86.596	87.170	87.236	87.763	87.155	86.134	84.926	84.118
75.0	60.411	59.927	59.322	61.229	62.951	64.118	64.376	63.542	62.410	63.755
77.5	42.569	42.635	42.479	42.188	42.108	42.382	43.525	43.461	44.356	45.459
80.0	25.283	25.985	26.480	27.215	28.046	28.281	27.758	26.678	28.587	29.934
82.5	17.502	16.789	15.887	15.516	15.354	16.345	17.096	17.454	17.684	17.456
85.0	10.907	10.825	10.608	10.684	10.766	10.780	10.704	10.505	10.139	10.197
87.5	4.909	5.183	5.500	5.869	6.317	6.624	6.890	7.090	7.196	7.169
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**

	75.0	77.5	80.0	82.5	85.0	87.5	90.0	92.5	95.0	97.5
0.0	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753
2.5	19903.569	19896.684	19891.243	19887.254	19884.720	19883.643	19884.021	19866.308	19850.089	19835.401
5.0	18202.105	18264.685	18233.147	18209.861	18193.909	18185.322	18184.116	18142.523	18108.503	18082.235
7.5	14464.729	14444.039	14449.789	14476.817	14421.790	14393.548	14392.336	14336.647	14308.385	14304.441
10.0	9820.123	9770.491	9750.251	9760.872	9769.790	9722.230	9709.861	9645.276	9615.303	9538.470
12.5	5983.080	5957.304	5911.893	5892.130	5900.062	5871.945	5860.281	5825.295	5808.478	5766.354
15.0	3635.286	3616.569	3585.564	3548.238	3530.440	3514.433	3502.145	3488.089	3480.474	3477.259
17.5	2318.949	2328.629	2319.383	2315.086	2315.913	2320.228	2315.812	2304.911	2288.523	2276.374
20.0	1555.420	1541.800	1546.790	1554.582	1560.519	1570.992	1569.354	1552.135	1537.972	1527.241
22.5	1111.674	1112.735	1105.884	1105.064	1097.752	1099.629	1096.631	1095.235	1093.268	1096.791
25.0	808.464	809.756	810.862	809.789	808.384	808.580	810.260	808.873	807.964	807.962
27.5	580.235	578.329	576.842	573.532	571.575	569.907	588.383	571.302	573.461	574.859
30.0	390.343	387.496	388.506	389.205	390.064	389.698	412.816	391.079	392.908	392.612
32.5	299.564	295.679	290.968	286.186	283.245	280.637	282.528	280.905	284.039	288.721
35.0	228.358	224.934	221.707	218.843	217.410	216.846	216.041	217.259	218.686	221.008
37.5	178.089	174.882	170.699	167.974	165.890	165.210	165.505	166.357	167.859	170.176
40.0	142.240	142.419	142.692	142.579	142.909	143.095	144.028	144.420	144.796	145.620
42.5	125.670	124.436	123.504	122.399	121.960	121.711	122.550	122.979	124.185	126.066
45.0	112.111	111.549	110.934	110.461	110.802	110.782	111.180	111.890	112.746	113.743
47.5	103.453	103.164	101.908	100.622	100.495	100.064	99.809	101.156	102.092	103.284
50.0	96.763	99.862	100.788	100.085	99.572	98.989	98.967	100.252	101.046	102.289
52.5	106.073	106.638	105.491	102.943	100.050	98.359	98.124	99.517	101.453	104.495
55.0	118.978	116.224	112.040	106.959	100.967	98.014	97.282	98.924	102.456	107.446
57.5	136.226	128.189	120.499	115.425	111.522	109.613	109.284	110.271	112.512	115.425
60.0	142.514	133.375	127.139	124.316	122.551	121.275	121.287	121.902	123.230	124.316
62.5	141.922	135.188	131.663	131.580	132.660	132.540	133.289	133.410	132.936	131.580
65.0	136.519	132.247	132.841	136.202	141.396	143.515	145.291	144.551	141.408	136.161
67.5	124.308	123.474	125.878	124.772	124.812	122.780	122.550	123.408	124.952	124.772
70.0	104.547	104.548	104.028	103.366	102.603	100.516	99.809	101.132	102.733	103.366
72.5	84.262	84.007	83.484	82.328	80.191	78.296	77.067	79.222	80.857	82.319
75.0	64.673	64.364	63.243	61.068	59.122	56.137	54.326	57.375	59.122	61.972
77.5	45.745	45.597	44.449	43.567	43.847	43.208	41.692	44.123	43.847	44.015
80.0	30.179	28.943	29.369	31.749	31.858	30.891	29.058	31.191	32.086	32.694
82.5	17.595	17.733	19.337	20.823	20.909	18.798	16.424	18.798	21.415	21.141
85.0	10.134	10.514	11.647	12.734	12.439	8.750	3.790	7.954	12.564	13.240
87.5	6.942	6.943	6.928	7.510	7.961	5.359	1.895	5.359	8.036	7.638
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**

	100.0	102.5	105.0	107.5	110.0	112.5	115.0	117.5	120.0	122.5
0.0	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753
2.5	19822.283	19810.767	19800.884	19792.661	19786.119	19774.099	19761.870	19732.779	19706.350	19682.662

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CANDELA TABULATION - (Cont.)

5.0	18063.874	18023.794	17947.499	17880.982	17824.586	17778.624	17743.373	17719.071	17705.920	17704.079
7.5	14221.172	14156.172	14118.116	14106.719	14205.865	14132.889	14059.280	13954.936	13875.900	13822.285
10.0	9461.844	9413.167	9390.278	9381.759	9289.283	9208.449	9212.693	9115.204	9124.064	9103.807
12.5	5747.929	5749.942	5732.632	5694.730	5664.373	5638.163	5594.445	5596.360	5536.291	5534.527
15.0	3492.849	3502.923	3501.230	3507.003	3507.760	3493.731	3477.608	3456.299	3429.952	3435.765
17.5	2268.466	2263.245	2237.590	2240.620	2238.867	2237.931	2228.112	2213.451	2212.213	2195.847
20.0	1512.375	1498.811	1505.088	1507.594	1509.240	1502.177	1490.915	1477.487	1458.811	1449.639
22.5	1094.028	1095.032	1093.000	1090.835	1081.241	1070.181	1059.543	1048.006	1040.855	1041.056
25.0	806.417	805.704	806.471	802.637	798.651	791.156	784.606	782.657	779.600	774.625
27.5	577.375	580.514	583.591	585.656	584.522	584.670	584.011	581.860	578.122	573.451
30.0	392.940	393.830	399.260	411.206	420.812	426.708	428.486	423.518	418.189	417.069
32.5	294.264	300.399	306.294	310.310	313.365	314.842	313.749	307.988	310.975	312.451
35.0	224.526	228.539	232.263	236.635	244.337	251.098	238.245	238.444	247.518	247.565
37.5	174.357	178.881	183.598	189.384	195.540	188.809	183.532	185.964	191.388	191.674
40.0	146.482	147.026	147.154	147.465	150.277	152.674	154.920	155.122	154.511	154.678
42.5	127.282	129.385	129.983	131.204	131.498	132.363	131.643	132.747	134.415	134.705
45.0	114.672	115.430	115.755	115.831	117.515	118.436	118.643	119.137	119.015	119.369
47.5	104.878	106.061	106.508	106.883	107.337	107.369	107.891	108.785	108.920	109.015
50.0	102.819	102.083	99.173	98.881	99.919	101.393	102.477	101.458	101.890	102.403
52.5	106.711	107.858	107.045	104.828	100.988	99.776	103.523	104.910	102.123	101.607
55.0	112.453	115.851	118.270	118.996	117.735	116.227	114.739	115.677	116.477	112.740
57.5	120.361	126.126	134.001	137.386	138.302	138.171	136.550	135.710	136.626	135.464
60.0	126.427	131.537	140.436	152.103	161.009	159.671	154.005	151.518	153.572	156.685
62.5	130.839	133.989	139.986	149.981	163.790	171.221	161.859	157.565	158.101	162.670
65.0	132.385	131.547	134.552	143.146	148.398	152.525	156.000	151.665	152.329	153.157
67.5	125.883	123.240	123.386	126.054	128.690	131.356	133.683	136.013	133.401	134.126
70.0	104.365	104.633	104.570	105.080	106.808	109.037	110.140	110.219	110.304	111.459
72.5	83.512	84.463	84.052	83.200	84.707	85.563	85.994	86.022	85.232	84.808
75.0	64.065	64.706	64.285	64.021	62.433	63.079	63.721	63.207	61.733	59.794
77.5	45.448	45.726	46.448	45.915	44.770	43.935	43.750	42.299	41.696	41.642
80.0	29.843	30.085	31.095	30.851	29.641	27.908	28.428	28.625	28.337	27.670
82.5	20.281	18.939	18.815	18.547	18.449	17.957	17.427	16.775	16.087	16.458
85.0	12.426	11.262	10.598	10.351	10.185	10.720	11.141	11.373	11.397	11.262
87.5	6.928	6.943	6.955	7.397	7.699	7.908	8.027	7.533	6.923	6.153
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

	125.0	127.5	130.0	132.5	135.0	137.5	140.0	142.5	145.0	147.5
0.0	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753
2.5	19661.785	19643.778	19628.691	19616.566	19607.430	19601.305	19598.198	19598.108	19601.023	19606.921
5.0	17713.667	17709.014	17651.275	17607.648	17578.231	17563.080	17562.210	17612.852	17539.173	17495.260
7.5	13794.158	13791.532	13814.381	13825.347	13783.725	13839.737	13674.583	13592.942	13539.442	13514.066
10.0	9081.451	9055.029	9023.023	8984.388	9010.584	8928.510	8899.468	8862.383	8818.543	8769.690
12.5	5523.302	5505.156	5470.650	5418.745	5299.726	5387.919	5399.171	5397.201	5383.198	5330.436
15.0	3422.652	3402.605	3380.199	3343.434	3327.771	3310.043	3308.610	3311.402	3288.566	3272.787
17.5	2191.575	2170.813	2154.597	2144.598	2142.242	2131.490	2133.297	2124.190	2103.567	2072.489
20.0	1456.513	1449.696	1433.542	1432.754	1423.679	1400.643	1403.526	1406.971	1396.874	1380.674
22.5	1036.062	1029.478	1013.247	1017.863	1012.547	998.101	999.090	993.453	986.700	977.447
25.0	765.341	767.044	760.129	756.468	751.675	746.001	739.736	738.478	734.528	728.760
27.5	569.486	568.474	565.640	559.885	558.287	556.480	552.202	543.116	545.898	542.833
30.0	416.522	413.115	412.658	412.576	409.384	407.764	406.756	403.261	397.092	398.189
32.5	307.357	306.886	308.271	310.725	314.128	312.085	305.816	304.884	312.380	317.769
35.0	244.321	242.938	243.712	246.210	248.450	249.012	244.346	237.668	238.447	245.686
37.5	192.325	189.430	192.228	193.253	190.882	193.055	195.144	193.340	190.254	185.873
40.0	156.299	156.871	155.340	155.703	157.589	157.519	156.707	156.930	158.187	158.764

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CANDELA TABULATION - (Cont.)

42.5	134.242	133.981	134.730	134.500	133.570	135.314	135.911	136.323	135.937	135.281
45.0	119.769	119.795	119.154	120.060	120.449	120.399	119.937	120.309	120.816	121.021
47.5	108.931	109.502	110.098	110.024	110.089	110.081	109.617	109.170	108.434	108.199
50.0	103.468	102.932	103.273	104.793	104.260	103.413	101.346	102.057	102.022	101.532
52.5	103.075	104.373	104.173	104.649	103.159	104.044	104.007	101.865	100.001	98.145
55.0	112.886	115.314	113.538	114.068	115.204	113.309	110.646	111.171	111.782	112.254
57.5	133.786	134.129	135.026	133.595	131.200	130.231	130.310	130.000	128.659	127.806
60.0	154.115	156.407	155.700	149.675	147.676	148.052	149.567	149.612	147.233	139.739
62.5	165.952	161.026	160.232	158.329	159.791	163.691	158.184	151.208	141.914	134.682
65.0	155.160	154.493	156.528	158.475	152.966	148.861	143.075	138.511	132.663	127.805
67.5	137.663	139.725	136.760	135.525	132.122	129.172	126.266	123.599	121.283	119.291
70.0	111.533	111.194	110.163	110.318	110.177	108.555	107.907	106.873	105.848	104.162
72.5	84.304	83.313	82.502	84.125	87.704	87.044	86.642	85.975	85.732	84.976
75.0	58.264	59.712	60.681	63.370	65.523	65.485	65.060	64.922	65.243	65.514
77.5	42.388	42.990	43.262	43.935	44.403	44.103	43.651	43.747	44.668	46.529
80.0	27.258	27.027	26.495	26.695	27.574	28.546	29.849	31.258	32.995	34.412
82.5	16.888	17.699	18.332	18.824	19.205	19.610	20.456	21.268	22.082	22.596
85.0	11.072	11.227	11.254	11.182	11.031	10.869	11.235	11.537	11.394	10.986
87.5	5.500	5.183	4.909	4.672	4.464	4.290	4.541	4.775	4.625	4.393
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	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753	20412.753
2.5	19615.770	19627.529	19662.050	19645.985	19634.194	19624.232	19616.130	19609.917	19605.618	19603.256
5.0	17463.587	17444.077	17436.609	17441.022	17457.110	17484.631	17523.307	17610.359	17500.280	17499.736
7.5	13516.725	13547.255	13605.423	13526.646	13579.869	13535.517	13517.796	13526.984	13563.325	13613.276
10.0	8717.218	8658.493	8644.801	8676.906	8718.138	8769.714	8738.345	8730.411	8747.930	8792.957
12.5	5245.317	5189.042	5180.540	5180.508	5186.572	5197.230	5215.334	5200.375	5169.463	5155.137
15.0	3253.244	3269.839	3262.715	3256.537	3268.383	3237.387	3225.433	3221.614	3192.968	3161.950
17.5	2073.273	2089.112	2099.964	2097.603	2088.308	2081.824	2042.983	2070.667	2087.190	2075.023
20.0	1386.346	1395.228	1393.339	1395.205	1390.404	1378.652	1372.352	1361.630	1372.764	1376.631
22.5	972.626	974.570	976.913	978.442	978.304	975.647	971.859	968.256	962.317	958.503
25.0	721.545	708.514	710.531	711.145	709.073	706.636	704.772	704.413	702.539	702.534
27.5	538.615	531.866	523.169	519.217	523.062	520.216	519.545	520.679	522.015	521.982
30.0	398.119	396.904	392.935	388.956	386.736	383.801	381.062	385.835	390.963	390.761
32.5	302.260	295.202	296.238	295.684	297.277	307.980	316.141	321.834	317.032	311.919
35.0	245.040	237.011	234.174	230.459	225.569	237.173	249.394	256.977	250.391	244.698
37.5	188.429	189.979	191.253	190.637	188.091	187.532	190.206	188.246	184.300	180.983
40.0	158.517	157.533	156.071	155.328	155.558	155.477	154.938	154.194	153.442	152.800
42.5	135.885	136.357	136.638	136.663	136.162	134.571	132.869	131.550	130.340	128.694
45.0	120.976	120.683	120.038	119.417	119.375	118.719	117.540	116.911	116.443	115.519
47.5	108.730	108.901	108.685	108.264	107.788	107.321	106.591	105.436	104.414	103.513
50.0	100.452	99.710	98.670	98.971	100.369	101.354	101.971	101.805	101.166	100.574
52.5	100.378	102.046	102.960	103.536	103.113	102.552	101.985	101.199	99.960	98.703
55.0	112.457	111.934	110.750	109.185	107.006	104.349	102.503	100.727	98.966	96.910
57.5	125.984	123.555	119.976	115.363	112.071	108.670	107.450	106.507	105.868	104.716
60.0	132.526	127.114	122.699	119.079	117.083	114.792	114.540	114.348	114.159	113.441
62.5	129.634	126.198	123.943	122.177	121.389	120.860	121.317	122.095	122.308	122.117
65.0	125.110	123.905	124.094	124.407	125.154	126.223	127.814	129.619	130.328	130.747
67.5	119.114	120.336	120.289	119.625	118.834	118.057	117.623	117.411	115.976	115.224
70.0	103.088	102.457	102.024	101.592	101.239	100.810	100.302	100.071	98.258	97.754
72.5	84.613	84.345	83.877	83.511	83.524	83.616	82.964	82.775	80.609	80.193
75.0	66.055	66.173	65.830	65.390	65.710	66.464	65.612	65.515	63.015	62.614
77.5	48.564	49.557	49.825	49.606	50.007	51.026	50.300	50.347	48.522	48.133

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CANDELA TABULATION - (Cont.)

80.0	35.461	36.032	36.157	35.767	35.573	36.055	35.522	35.494	34.239	33.837
82.5	22.621	22.628	22.505	22.028	21.232	21.211	20.776	20.629	19.889	19.560
85.0	9.962	9.307	8.862	8.354	6.948	6.415	6.052	5.756	5.054	5.054
87.5	3.823	3.560	3.485	3.413	2.797	2.649	2.616	2.588	2.566	2.549
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	20412.753	20412.753	20412.753
2.5	19602.850	19604.417	19607.968
5.0	17499.189	17498.639	17498.089
7.5	13517.137	13447.999	13406.253
10.0	8805.404	8710.655	8649.868
12.5	5171.507	5097.499	5045.704
15.0	3110.157	3109.665	3082.696
17.5	2071.580	2062.273	2032.305
20.0	1375.326	1375.272	1360.051
22.5	936.852	944.695	965.238
25.0	697.210	694.235	705.188
27.5	520.016	518.014	523.228
30.0	390.369	389.614	391.023
32.5	307.648	304.794	304.164
35.0	241.163	239.154	237.940
37.5	179.481	177.810	176.876
40.0	152.555	152.759	151.608
42.5	127.429	127.168	126.340
45.0	114.862	115.247	114.338
47.5	102.857	103.066	102.335
50.0	100.084	100.069	99.387
52.5	97.786	97.099	96.440
55.0	95.540	94.154	93.492
57.5	104.135	103.400	102.652
60.0	113.155	112.723	111.811
62.5	122.141	122.028	120.971
65.0	131.394	131.394	130.130
67.5	114.253	113.735	112.127
70.0	96.516	95.938	94.123
72.5	78.775	78.150	76.120
75.0	60.643	60.273	58.116
77.5	46.674	45.828	43.903
80.0	32.405	31.299	29.690
82.5	18.144	16.768	15.476
85.0	3.778	2.205	1.263
87.5	1.901	1.106	0.632
90.0	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2528.5	N.A.	73.20
0-30	2895.45	N.A.	83.80
0-40	3044.87	N.A.	88.10
0-60	3239.28	N.A.	93.70
0-80	3443.22	N.A.	99.60
0-90	3456.44	N.A.	100.00
10-90	2020.14	N.A.	58.40
20-40	516.37	N.A.	14.90
20-50	606.83	N.A.	17.60
40-70	328.90	N.A.	9.50
60-80	203.94	N.A.	5.90
70-80	69.45	N.A.	2.00
80-90	13.22	N.A.	0.40
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	3456.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1436.3
10-20	1092.2
20-30	366.95
30-40	149.42
40-50	90.46
50-60	103.94
60-70	134.49
70-80	69.45
80-90	13.22
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

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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	133	133	133	133	130	130	130	130	124	124	124	119	119	119	114	114	114	112
1	127	125	122	120	125	122	120	118	118	116	114	113	112	111	110	109	107	106
2	122	117	113	110	120	115	112	109	112	109	106	108	106	104	105	104	102	100
3	117	111	106	103	115	110	105	102	107	103	100	104	101	99	102	99	97	96
4	113	106	101	97	111	105	100	97	103	99	95	101	97	94	99	96	93	92
5	110	102	97	93	108	101	96	92	99	95	92	97	94	91	96	93	90	89
6	106	98	93	89	105	97	93	89	96	92	88	94	91	88	93	90	87	86
7	103	95	90	86	102	94	89	86	93	89	86	92	88	85	91	87	85	83
8	100	92	87	84	99	92	87	83	91	86	83	90	86	83	89	85	82	81
9	98	90	85	81	97	89	84	81	88	84	81	87	84	81	87	83	80	79
10	95	87	83	79	94	87	82	79	86	82	79	85	82	79	85	81	79	78

IES INDOOR REPORT
PHOTOMETRIC FILENAME : VF1-L35-750-NS-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

X=2H	Y=2H	18.2	19.6	18.5	19.9	20.2	7.6	9.0	7.9	9.3	9.6
	3H	21.1	22.5	21.5	22.8	23.2	8.0	9.3	8.4	9.7	10.0
	4H	21.9	23.2	22.3	23.5	23.9	8.3	9.5	8.7	9.9	10.3
	6H	22.3	23.5	22.7	23.9	24.3	8.7	9.9	9.1	10.3	10.7
	8H	22.5	23.6	22.9	23.9	24.4	9.0	10.1	9.4	10.5	10.9
	12H	22.4	23.5	22.9	23.9	24.3	9.2	10.2	9.6	10.6	11.0

UGR Viewed Endwise

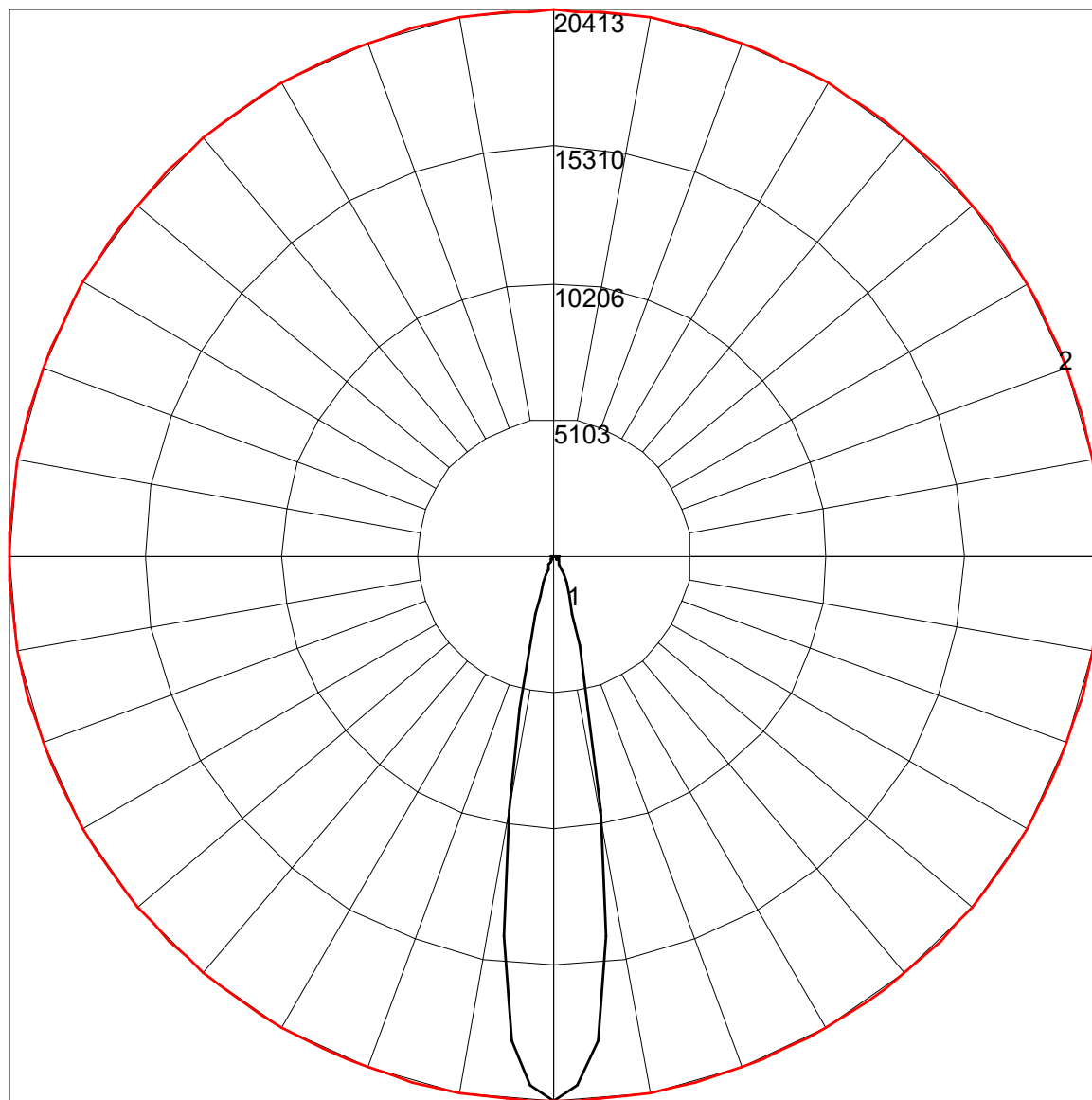
4H	2H	18.5	19.7	18.9	20.1	20.5	13.0	14.2	13.4	14.6	14.9
	3H	21.6	22.7	22.1	23.1	23.5	13.5	14.6	13.9	15.0	15.4
	4H	22.6	23.5	23.0	23.9	24.4	13.7	14.6	14.1	15.0	15.5
	6H	23.1	24.0	23.5	24.4	24.9	13.8	14.7	14.2	15.1	15.6
	8H	23.2	24.0	23.7	24.5	24.9	13.9	14.7	14.4	15.2	15.6
	12H	23.2	23.9	23.7	24.4	24.9	14.0	14.8	14.5	15.3	15.7

8H	4H	22.5	23.3	23.0	23.8	24.2	15.0	15.8	15.5	16.3	16.7
	6H	23.2	23.9	23.7	24.3	24.8	15.3	15.9	15.8	16.4	16.9
	8H	23.3	23.9	23.8	24.5	24.9	15.4	16.0	15.9	16.5	17.0
	12H	23.4	23.9	23.9	24.4	25.0	15.7	16.2	16.2	16.7	17.2

12H	4H	22.4	23.2	22.9	23.7	24.1	15.2	16.0	15.7	16.4	16.9
	6H	23.1	23.8	23.7	24.2	24.8	15.6	16.2	16.1	16.7	17.2
	8H	23.4	23.9	23.9	24.4	24.9	15.8	16.3	16.3	16.8	17.4

Maximum UGR = 25.0

POLAR GRAPH



Maximum Candela = 20412.753 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)