



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF1-L35-750-MF-XX-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]GEN FROM ATAL009591-R3  
 [TESTLAB]ATAL-LABS  
 [ISSUE]DATE]28 NOV, 2022  
 [MANUFAC]WILLIAMS OUTDOOR  
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT]VF1-L35-750-MF-MTG-CLR-OPT-DIM-UNV  
 [LUMINAIRE]VOLTAIRE SMALL ARCHITECTURAL FLOOD LIGHT WITH MEDIUM  
 [MORE]FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A CLEAR GLASS  
 [MORE]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: 36.2, VAC: 120.03, TEMP: 25.1 C  
 [ \_SEARCH \_SOURCETYPE] 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	3713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	36
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.14
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.04
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	5397	7060	6437
55	4839	5318	4839
65	4663	3522	2430
75	3217	1682	2038
85	0	907	318

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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>
<b>0.0</b>	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855
<b>2.5</b>	2424.204	2425.147	2426.144	2427.198	2428.306	2429.471	2430.689	2431.963	2433.290	2434.670
<b>5.0</b>	2441.626	2442.136	2442.551	2442.886	2443.155	2443.142	2449.439	2453.708	2457.809	2461.731
<b>7.5</b>	2526.154	2529.837	2532.894	2535.336	2538.954	2542.161	2544.843	2547.026	2546.647	2550.422
<b>10.0</b>	2624.877	2627.959	2630.520	2634.127	2637.926	2641.259	2644.149	2646.617	2652.962	2659.257
<b>12.5</b>	2671.335	2671.930	2672.269	2677.896	2682.643	2687.335	2692.927	2700.089	2707.618	2715.597
<b>15.0</b>	2650.687	2650.863	2653.299	2658.457	2664.110	2670.860	2679.295	2688.369	2697.328	2708.291
<b>17.5</b>	2580.484	2578.374	2581.801	2588.607	2596.709	2606.089	2616.290	2625.800	2634.592	2645.568
<b>20.0</b>	2482.922	2477.827	2481.263	2487.981	2496.190	2509.365	2516.813	2520.423	2527.473	2532.490
<b>22.5</b>	2366.777	2365.173	2365.445	2367.845	2370.622	2375.801	2376.937	2378.885	2379.505	2380.205
<b>25.0</b>	2231.275	2229.826	2225.737	2224.123	2222.330	2221.731	2217.748	2213.400	2204.696	2199.568
<b>27.5</b>	2062.588	2059.946	2052.536	2046.655	2041.584	2035.501	2031.019	2015.125	2005.096	1993.670
<b>30.0</b>	1846.706	1845.226	1836.041	1828.373	1823.634	1817.233	1809.283	1790.210	1770.427	1757.410
<b>32.5</b>	1572.474	1574.137	1561.898	1550.007	1541.090	1534.474	1518.831	1504.490	1496.256	1484.928
<b>35.0</b>	1214.791	1222.725	1218.996	1213.355	1212.954	1216.349	1209.411	1209.578	1209.948	1195.017
<b>37.5</b>	836.244	851.038	856.647	854.996	862.924	873.826	883.915	897.555	905.580	909.842
<b>40.0</b>	624.602	633.875	637.443	637.439	645.629	648.574	650.090	654.901	656.280	655.488
<b>42.5</b>	412.960	418.767	427.226	437.607	459.447	466.178	473.757	485.461	498.819	510.917
<b>45.0</b>	354.888	358.603	361.023	364.279	374.176	371.820	370.387	372.947	378.759	387.476
<b>47.5</b>	296.815	300.033	301.116	302.898	308.083	312.369	315.201	319.938	326.311	335.839
<b>50.0</b>	283.910	285.317	285.495	284.875	285.431	286.082	285.421	285.265	285.245	287.678
<b>52.5</b>	271.005	271.140	272.014	271.460	271.621	271.805	271.502	271.616	271.795	272.584
<b>55.0</b>	258.100	257.016	258.646	257.873	257.794	257.525	257.906	257.948	257.819	257.974
<b>57.5</b>	239.388	238.707	240.506	239.944	240.334	240.017	241.423	241.392	241.608	242.730
<b>60.0</b>	220.676	220.311	222.225	221.586	222.140	221.384	223.073	221.835	221.760	222.177
<b>62.5</b>	201.963	201.876	204.005	203.232	203.926	202.833	204.089	202.050	201.665	201.240
<b>65.0</b>	183.251	183.405	185.837	184.883	185.691	184.504	184.824	182.358	181.315	180.193
<b>67.5</b>	156.796	157.419	159.316	158.716	159.861	159.920	160.431	159.103	158.282	157.033
<b>70.0</b>	130.341	131.394	132.388	132.020	133.074	133.653	134.160	133.359	132.474	128.807
<b>72.5</b>	103.885	105.388	105.357	105.385	106.375	107.350	108.180	107.586	106.800	99.637
<b>75.0</b>	77.430	79.398	78.241	78.737	79.747	81.015	82.442	81.792	81.244	69.706
<b>77.5</b>	58.073	59.558	59.142	59.499	60.115	60.915	61.909	61.018	60.244	47.515
<b>80.0</b>	38.715	39.732	40.286	40.638	41.136	41.785	42.590	42.019	41.087	32.488
<b>82.5</b>	19.358	19.891	21.478	21.772	22.149	22.640	23.250	23.144	22.656	18.267
<b>85.0</b>	0.000	0.038	2.699	2.902	3.155	3.485	3.894	4.314	4.712	4.615
<b>87.5</b>	0.000	0.000	1.292	1.302	1.310	1.322	1.336	1.353	1.373	1.397
<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.  
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>
<b>0.0</b>	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855
<b>2.5</b>	2435.612	2439.770	2442.657	2445.558	2448.467	2451.381	2454.292	2457.198	2460.092	2462.969
<b>5.0</b>	2465.464	2468.998	2472.324	2475.433	2478.317	2480.036	2486.592	2491.355	2495.867	2500.120
<b>7.5</b>	2554.168	2559.232	2563.852	2568.034	2571.783	2575.101	2577.990	2578.378	2582.738	2582.482
<b>10.0</b>	2663.813	2670.175	2673.475	2676.060	2678.404	2680.558	2682.542	2684.369	2684.423	2687.363
<b>12.5</b>	2724.425	2734.158	2741.880	2747.237	2751.799	2754.785	2758.822	2763.950	2768.809	2767.442
<b>15.0</b>	2719.886	2732.944	2745.289	2750.361	2757.435	2765.525	2768.699	2774.904	2778.666	2780.972
<b>17.5</b>	2655.972	2664.989	2676.470	2685.043	2688.263	2694.473	2701.810	2709.496	2707.525	2711.021
<b>20.0</b>	2538.392	2549.314	2550.927	2562.150	2561.217	2562.599	2568.638	2574.608	2571.785	2575.808
<b>22.5</b>	2381.730	2381.641	2387.014	2382.180	2381.552	2380.054	2378.849	2381.582	2382.432	2387.997
<b>25.0</b>	2193.957	2189.887	2181.551	2176.789	2169.893	2166.594	2164.961	2165.199	2167.834	2173.123
<b>27.5</b>	1985.643	1971.825	1961.722	1953.188	1947.763	1944.537	1941.062	1939.501	1943.232	1948.243
<b>30.0</b>	1741.849	1731.445	1723.729	1719.230	1716.478	1708.289	1703.590	1703.730	1704.393	1706.193

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	1476.886	1474.018	1471.312	1463.633	1458.425	1455.792	1452.943	1451.426	1453.040	1455.308
<b>35.0</b>	1188.511	1188.181	1190.465	1193.438	1197.613	1199.734	1189.327	1188.829	1190.958	1194.004
<b>37.5</b>	915.671	920.431	927.635	928.326	931.918	932.485	931.755	933.381	937.530	942.185
<b>40.0</b>	659.943	680.506	722.683	735.678	726.176	707.371	684.089	692.569	718.836	721.991
<b>42.5</b>	517.511	541.202	572.220	570.943	571.436	565.831	548.961	553.304	566.485	573.594
<b>45.0</b>	404.404	427.455	446.273	456.542	465.495	467.479	457.776	457.615	464.192	458.911
<b>47.5</b>	343.471	349.703	356.140	365.994	385.674	394.069	392.007	389.368	389.505	390.504
<b>50.0</b>	291.029	298.245	305.813	317.534	329.454	338.464	348.132	353.866	356.392	358.663
<b>52.5</b>	272.311	270.694	270.054	270.486	277.957	288.229	301.092	314.829	329.062	333.840
<b>55.0</b>	257.547	256.449	256.208	255.880	254.528	254.051	255.315	268.586	283.641	298.984
<b>57.5</b>	243.341	242.620	242.283	241.332	240.154	239.700	240.053	240.132	243.335	251.501
<b>60.0</b>	222.439	222.989	224.008	224.887	225.907	224.785	222.264	219.111	217.891	211.914
<b>62.5</b>	201.162	200.924	200.629	200.337	198.326	198.383	196.018	194.331	181.290	169.540
<b>65.0</b>	179.842	178.498	176.636	174.527	166.764	161.133	154.647	150.263	138.394	121.623
<b>67.5</b>	156.424	155.751	152.099	145.059	132.340	121.049	111.122	106.083	100.287	90.941
<b>70.0</b>	124.694	121.605	120.456	112.869	99.042	81.820	65.697	68.319	69.514	68.366
<b>72.5</b>	92.220	87.661	87.673	82.275	73.688	62.035	49.679	49.318	49.219	50.578
<b>75.0</b>	59.150	54.236	55.468	54.354	51.400	46.032	41.107	40.466	40.488	41.936
<b>77.5</b>	35.628	29.694	29.152	30.199	31.854	33.207	32.502	31.562	31.880	33.406
<b>80.0</b>	24.470	21.205	21.059	21.912	22.875	23.961	23.729	22.901	23.492	24.945
<b>82.5</b>	14.126	12.800	12.926	13.575	14.308	15.136	15.046	14.721	15.466	16.581
<b>85.0</b>	4.359	4.454	4.763	5.200	5.694	6.252	6.521	6.723	7.350	8.107
<b>87.5</b>	1.424	1.455	1.490	1.530	1.575	1.626	1.684	1.749	1.824	1.909
<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.  
Angles**

**Horizontal Angles**

	<b>50.0</b>	<b>52.5</b>	<b>55.0</b>	<b>57.5</b>	<b>60.0</b>	<b>62.5</b>	<b>65.0</b>	<b>67.5</b>	<b>70.0</b>	<b>72.5</b>
<b>0.0</b>	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855
<b>2.5</b>	2465.824	2468.650	2471.443	2474.195	2476.902	2479.556	2482.983	2485.016	2488.265	2491.450
<b>5.0</b>	2504.106	2507.373	2514.253	2521.609	2528.704	2535.527	2542.065	2548.311	2554.253	2559.884
<b>7.5</b>	2589.388	2595.275	2600.739	2605.768	2610.348	2614.467	2618.110	2623.519	2630.321	2639.649
<b>10.0</b>	2688.909	2690.131	2691.016	2691.548	2690.988	2696.819	2700.402	2705.092	2708.181	2710.895
<b>12.5</b>	2764.194	2761.830	2760.323	2759.423	2758.892	2757.487	2754.469	2752.906	2754.457	2755.833
<b>15.0</b>	2777.821	2777.287	2775.585	2772.360	2771.273	2767.781	2762.122	2757.721	2754.625	2753.903
<b>17.5</b>	2714.289	2717.073	2715.683	2717.240	2723.326	2712.935	2708.899	2706.686	2702.501	2700.327
<b>20.0</b>	2583.456	2584.786	2588.451	2599.331	2597.348	2599.290	2601.431	2599.691	2603.316	2600.524
<b>22.5</b>	2399.972	2402.319	2411.786	2421.616	2432.310	2441.376	2445.366	2454.241	2456.249	2465.738
<b>25.0</b>	2181.832	2199.612	2203.392	2211.732	2225.062	2238.458	2258.456	2269.172	2287.350	2296.116
<b>27.5</b>	1950.807	1958.004	1969.078	1982.711	1999.642	2018.455	2039.927	2065.002	2085.358	2106.518
<b>30.0</b>	1713.557	1719.150	1729.214	1745.191	1764.437	1782.956	1802.006	1826.645	1855.734	1884.804
<b>32.5</b>	1460.017	1467.493	1476.921	1486.947	1501.776	1522.541	1550.450	1564.149	1585.226	1609.907
<b>35.0</b>	1197.706	1202.893	1210.047	1220.578	1229.983	1241.147	1254.928	1273.748	1294.280	1309.308
<b>37.5</b>	944.225	945.932	954.413	959.352	963.568	966.967	970.060	960.697	938.657	901.618
<b>40.0</b>	723.101	732.206	728.735	727.446	736.111	734.520	716.145	678.383	622.914	581.811
<b>42.5</b>	570.718	566.009	571.926	578.967	578.687	562.412	534.417	525.129	513.865	502.713
<b>45.0</b>	443.018	459.969	474.179	479.675	475.094	470.989	461.402	449.451	436.923	424.648
<b>47.5</b>	392.650	391.629	398.360	410.095	414.244	408.466	396.455	387.787	389.506	390.962
<b>50.0</b>	360.368	360.410	360.802	363.611	367.013	361.738	360.527	361.256	362.312	361.382
<b>52.5</b>	336.161	336.432	337.687	338.520	336.118	331.717	330.698	332.900	327.123	317.669
<b>55.0</b>	310.874	309.901	311.602	307.775	301.333	298.742	292.754	279.953	271.671	264.594
<b>57.5</b>	261.140	272.476	273.043	265.212	262.199	251.355	234.195	220.215	211.757	207.805
<b>60.0</b>	213.178	213.960	211.675	215.411	209.827	196.492	178.718	159.305	148.909	155.301
<b>62.5</b>	164.493	155.972	143.970	149.061	155.461	147.970	129.123	107.299	111.715	124.514
<b>65.0</b>	113.675	107.724	101.732	105.823	108.331	106.128	92.919	93.494	95.407	99.657
<b>67.5</b>	83.164	71.244	72.788	78.832	81.491	80.506	81.585	82.254	82.521	83.960

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	64.909	60.159	59.949	59.688	61.677	65.252	68.797	70.962	71.792	71.758
<b>72.5</b>	52.220	51.960	51.868	51.706	51.569	52.110	55.084	58.241	60.511	61.513
<b>75.0</b>	43.298	43.545	44.151	44.135	43.630	43.629	44.439	46.231	48.747	50.093
<b>77.5</b>	34.232	34.079	34.268	34.731	34.778	34.645	34.751	35.819	37.218	38.486
<b>80.0</b>	25.078	24.484	24.182	24.246	24.409	24.543	24.634	24.791	25.912	27.136
<b>82.5</b>	16.551	16.066	15.425	14.978	14.540	14.635	14.872	15.385	16.060	16.589
<b>85.0</b>	8.334	8.416	8.386	8.450	8.444	8.310	8.006	7.876	7.692	8.050
<b>87.5</b>	2.006	2.118	2.247	2.398	2.581	2.973	3.285	3.565	3.773	3.873
<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.  
Angles**

**Horizontal Angles**

	<u><b>75.0</b></u>	<u><b>77.5</b></u>	<u><b>80.0</b></u>	<u><b>82.5</b></u>	<u><b>85.0</b></u>	<u><b>87.5</b></u>	<u><b>90.0</b></u>	<u><b>92.5</b></u>	<u><b>95.0</b></u>	<u><b>97.5</b></u>
<b>0.0</b>	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855
<b>2.5</b>	2494.563	2497.597	2500.543	2503.396	2506.146	2508.788	2511.313	2513.294	2515.150	2516.880
<b>5.0</b>	2565.195	2571.392	2575.355	2580.518	2585.326	2589.786	2593.905	2598.252	2602.250	2605.884
<b>7.5</b>	2646.861	2653.569	2659.777	2665.570	2672.482	2678.918	2684.885	2689.749	2694.140	2698.289
<b>10.0</b>	2717.906	2724.785	2731.180	2737.094	2743.073	2750.024	2756.508	2762.546	2768.157	2771.908
<b>12.5</b>	2757.031	2760.529	2766.742	2772.871	2778.880	2785.172	2791.352	2798.408	2804.748	2808.765
<b>15.0</b>	2754.843	2756.568	2760.496	2766.107	2771.812	2778.061	2784.899	2790.185	2795.710	2801.425
<b>17.5</b>	2700.062	2703.050	2700.825	2706.239	2713.438	2722.074	2732.763	2736.310	2741.009	2746.824
<b>20.0</b>	2601.841	2604.184	2604.473	2607.139	2611.139	2617.235	2625.737	2634.368	2642.153	2652.317
<b>22.5</b>	2466.552	2472.895	2478.237	2487.360	2493.957	2504.580	2513.894	2522.829	2531.228	2541.245
<b>25.0</b>	2311.038	2321.877	2334.585	2345.739	2357.141	2369.266	2382.693	2392.448	2401.252	2408.430
<b>27.5</b>	2124.538	2143.853	2164.108	2180.596	2197.889	2213.585	2229.615	2237.994	2244.901	2246.252
<b>30.0</b>	1915.165	1937.048	1957.720	1978.508	1998.480	2014.845	2031.892	2038.673	2045.378	2043.805
<b>32.5</b>	1635.639	1660.721	1687.627	1715.149	1738.179	1757.608	1775.405	1779.146	1780.674	1773.701
<b>35.0</b>	1299.021	1283.957	1266.451	1250.173	1236.511	1230.181	1402.917	1242.914	1261.953	1287.413
<b>37.5</b>	855.599	804.102	749.242	699.571	659.404	632.016	1001.428	632.246	661.119	705.698
<b>40.0</b>	570.914	562.604	555.264	549.326	546.331	544.619	734.295	546.702	550.627	555.255
<b>42.5</b>	491.332	482.532	474.871	469.043	466.362	465.415	467.161	470.355	475.736	480.793
<b>45.0</b>	423.014	423.232	422.766	422.200	421.741	422.266	423.284	425.228	428.506	430.475
<b>47.5</b>	390.558	388.111	385.686	383.488	380.694	380.398	379.407	380.477	383.137	386.290
<b>50.0</b>	359.189	351.036	345.572	342.137	340.223	340.022	338.971	340.022	341.963	345.174
<b>52.5</b>	310.490	305.854	301.642	299.783	299.334	299.357	298.536	299.684	301.207	303.376
<b>55.0</b>	259.885	257.153	256.744	257.467	258.062	258.630	258.100	259.358	260.418	260.564
<b>57.5</b>	205.070	209.296	214.984	216.870	216.785	217.319	217.449	218.839	220.165	219.619
<b>60.0</b>	166.396	173.278	176.554	177.892	176.738	176.198	176.799	178.332	180.418	180.709
<b>62.5</b>	135.040	140.713	141.326	141.500	137.882	135.338	136.148	137.848	140.565	142.793
<b>65.0</b>	107.221	111.573	109.122	106.213	100.000	94.808	95.497	97.389	100.652	107.302
<b>67.5</b>	86.903	86.621	85.546	84.276	84.231	82.523	83.883	84.492	84.231	86.578
<b>70.0</b>	72.652	73.283	73.894	72.499	73.569	71.633	72.268	72.962	73.569	74.883
<b>72.5</b>	61.429	62.473	62.342	62.948	62.801	60.764	60.654	61.453	62.986	62.948
<b>75.0</b>	51.396	51.380	52.041	50.909	51.264	49.926	49.039	49.972	52.436	52.815
<b>77.5</b>	39.849	41.420	41.359	41.205	39.911	38.556	37.425	38.595	40.804	41.205
<b>80.0</b>	28.422	29.786	31.427	30.674	29.045	27.225	25.810	28.437	30.272	30.674
<b>82.5</b>	17.427	18.774	20.344	21.179	19.521	15.671	14.196	17.901	19.521	21.804
<b>85.0</b>	8.644	9.747	11.047	11.917	11.053	7.441	2.581	7.550	12.121	12.951
<b>87.5</b>	3.810	4.234	4.933	5.948	5.716	3.650	1.291	4.572	5.868	6.697
<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.  
Angles**

**Horizontal Angles**

	<u><b>100.0</b></u>	<u><b>102.5</b></u>	<u><b>105.0</b></u>	<u><b>107.5</b></u>	<u><b>110.0</b></u>	<u><b>112.5</b></u>	<u><b>115.0</b></u>	<u><b>117.5</b></u>	<u><b>120.0</b></u>	<u><b>122.5</b></u>
<b>0.0</b>	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855
<b>2.5</b>	2518.482	2519.955	2521.299	2522.513	2523.595	2525.357	2525.338	2525.973	2526.471	2526.831

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF1-L35-750-MF-XX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

5.0	2609.138	2611.586	2613.049	2614.175	2614.967	2615.430	2615.571	2615.394	2614.904	2614.107
7.5	2700.194	2701.815	2702.984	2703.705	2702.570	2703.821	2703.325	2702.577	2701.595	2700.401
10.0	2774.707	2777.110	2779.125	2780.685	2780.986	2780.862	2779.183	2778.349	2776.143	2777.351
12.5	2812.629	2816.358	2819.796	2822.901	2825.797	2828.479	2833.458	2839.278	2843.166	2845.679
15.0	2807.331	2813.078	2818.740	2824.723	2831.466	2839.647	2848.815	2859.037	2869.648	2876.977
17.5	2753.971	2766.336	2773.050	2781.980	2791.715	2802.718	2813.035	2825.499	2844.262	2845.812
20.0	2663.374	2676.519	2686.518	2695.841	2706.816	2714.596	2725.837	2733.043	2740.701	2748.961
22.5	2549.070	2558.560	2563.723	2571.592	2575.056	2583.097	2583.692	2589.027	2588.595	2587.053
25.0	2412.884	2413.693	2415.406	2411.400	2411.280	2406.196	2406.914	2396.391	2392.150	2387.303
27.5	2246.028	2238.600	2230.070	2221.737	2210.286	2200.320	2188.201	2177.853	2169.408	2163.367
30.0	2039.126	2031.917	2016.933	1996.755	1979.437	1962.953	1949.201	1934.490	1927.151	1917.960
32.5	1761.702	1748.063	1734.383	1721.540	1709.132	1700.496	1695.530	1679.092	1665.031	1656.318
35.0	1317.257	1350.974	1385.101	1416.914	1417.029	1407.938	1399.502	1393.160	1389.598	1386.024
37.5	762.528	826.071	892.709	955.859	1013.618	1060.969	1095.063	1107.875	1106.966	1102.167
40.0	561.023	568.058	576.053	585.350	636.695	716.051	777.884	819.421	842.091	847.661
42.5	487.796	495.049	503.934	513.642	524.210	535.045	543.977	590.369	628.849	645.317
45.0	434.029	436.933	439.286	442.466	453.107	463.595	473.825	481.644	485.336	502.687
47.5	390.697	395.220	399.610	402.801	403.473	402.102	407.908	417.563	422.562	418.376
50.0	348.329	353.701	361.986	367.979	370.566	368.891	367.559	367.137	371.052	367.468
52.5	305.392	308.858	314.493	322.620	331.097	336.626	335.850	335.419	336.536	337.919
55.0	260.482	261.573	263.828	269.447	275.472	284.919	297.837	303.314	304.995	308.283
57.5	217.585	212.604	209.916	212.506	216.724	224.745	238.888	258.941	270.740	269.189
60.0	180.470	176.270	170.642	160.211	153.087	162.447	183.012	202.944	217.408	221.403
62.5	144.356	143.034	138.432	128.307	113.795	107.975	131.669	152.613	159.518	151.109
65.0	111.195	113.003	110.680	101.115	96.512	94.762	95.342	107.220	107.516	105.713
67.5	85.556	88.371	88.020	85.399	84.377	84.637	81.286	78.342	81.275	80.064
70.0	74.595	74.516	74.012	74.137	73.890	70.545	67.894	65.548	63.559	62.269
72.5	63.651	63.011	63.467	63.415	60.267	58.078	55.807	54.024	54.022	54.287
75.0	52.006	52.525	52.494	50.151	48.776	46.700	45.859	45.687	46.065	46.716
77.5	41.606	41.849	40.217	39.244	38.065	37.164	36.831	37.142	37.563	37.949
80.0	31.563	30.822	30.294	29.012	28.066	27.372	27.325	27.561	27.922	28.386
82.5	21.716	21.238	19.921	19.170	18.641	17.966	17.658	18.020	18.590	19.429
85.0	12.639	11.928	11.225	10.631	10.273	10.457	10.667	11.322	11.709	11.890
87.5	6.302	6.233	6.391	6.454	6.354	6.146	5.868	5.581	5.152	4.796
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	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855
2.5	2527.052	2527.135	2527.080	2526.887	2526.557	2526.090	2525.487	2524.749	2523.878	2522.874
5.0	2613.009	2611.708	2610.374	2608.771	2606.905	2604.781	2602.401	2598.458	2598.275	2597.018
7.5	2699.012	2697.446	2695.717	2694.583	2694.687	2693.119	2693.567	2692.167	2690.558	2688.732
10.0	2778.030	2778.187	2777.826	2776.952	2775.449	2779.837	2782.658	2784.993	2786.829	2788.156
12.5	2849.482	2854.740	2860.487	2866.743	2873.757	2870.990	2870.299	2870.072	2870.274	2870.697
15.0	2885.657	2892.336	2897.315	2904.017	2906.985	2908.810	2907.739	2908.784	2905.131	2902.914
17.5	2851.822	2860.802	2865.227	2867.679	2868.367	2870.763	2869.886	2867.105	2865.671	2867.159
20.0	2748.791	2753.587	2760.872	2759.345	2759.484	2763.848	2761.262	2759.012	2761.599	2762.729
22.5	2586.660	2586.150	2588.743	2587.490	2589.023	2594.660	2592.357	2594.128	2598.042	2602.386
25.0	2386.475	2392.007	2382.074	2379.265	2379.561	2383.033	2387.759	2392.560	2398.542	2410.244
27.5	2158.994	2153.884	2151.965	2155.202	2155.234	2155.920	2161.482	2165.041	2176.598	2187.868
30.0	1910.708	1908.995	1909.713	1906.985	1911.059	1916.531	1920.496	1929.314	1942.156	1949.559
32.5	1651.843	1648.840	1648.049	1648.352	1651.645	1656.265	1662.104	1668.932	1679.567	1694.445
35.0	1379.823	1377.372	1377.321	1379.723	1379.286	1381.497	1385.963	1394.890	1401.781	1410.766
37.5	1107.134	1105.415	1105.917	1106.064	1105.407	1108.229	1111.570	1114.282	1117.681	1114.504
40.0	851.722	855.717	853.545	853.339	855.967	854.967	853.841	856.837	854.565	844.635

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF1-L35-750-MF-XX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

42.5	643.861	639.897	649.939	644.701	629.107	649.043	654.380	647.605	627.609	607.329
45.0	508.290	504.937	495.616	503.138	505.110	502.780	495.168	496.628	487.858	475.103
47.5	410.296	413.387	417.462	413.211	411.549	410.985	406.978	398.413	381.832	362.532
50.0	364.523	363.443	364.506	362.221	357.743	351.926	338.778	329.260	321.489	314.423
52.5	336.862	333.983	329.958	325.737	318.343	306.708	295.305	285.013	276.479	270.782
55.0	308.870	304.776	300.096	288.562	276.249	264.077	253.250	253.998	255.208	256.843
57.5	273.000	270.158	257.392	246.619	239.448	238.723	240.343	240.980	241.746	243.202
60.0	213.822	215.518	214.648	212.350	218.522	221.404	225.577	228.318	228.909	228.251
62.5	144.527	158.080	168.121	173.463	186.502	201.319	202.406	204.749	204.713	207.197
65.0	102.817	110.249	117.749	126.970	144.291	156.522	161.390	169.465	176.144	184.911
67.5	75.017	73.999	86.731	95.057	104.725	110.648	116.868	130.059	144.243	158.674
70.0	62.530	62.740	67.830	71.571	72.772	71.432	69.234	90.261	111.362	125.931
72.5	54.449	54.541	54.834	53.075	52.295	52.625	52.980	68.550	83.310	92.465
75.0	46.663	46.234	45.897	45.243	45.007	45.184	45.424	51.495	58.513	61.843
77.5	37.595	37.220	37.000	37.018	37.473	37.884	37.996	38.357	37.093	35.290
80.0	28.472	28.246	28.149	28.462	29.199	29.499	29.094	28.486	27.300	26.250
82.5	19.863	19.730	19.566	19.493	19.758	19.829	19.366	18.858	17.955	17.155
85.0	11.876	11.513	11.128	10.746	10.508	10.198	9.674	9.167	8.557	8.019
87.5	4.494	4.235	4.012	3.817	3.648	3.499	3.368	3.252	3.150	3.059
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	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855	2464.855
2.5	2521.740	2520.477	2517.753	2518.300	2518.374	2518.368	2518.279	2518.104	2517.840	2517.484
5.0	2595.567	2593.919	2592.071	2590.020	2587.761	2585.290	2582.602	2578.108	2579.629	2577.405
7.5	2686.674	2684.368	2681.794	2681.767	2678.393	2677.095	2675.245	2672.834	2669.849	2666.513
10.0	2788.952	2789.168	2788.464	2786.639	2784.410	2781.767	2779.893	2777.589	2774.804	2771.486
12.5	2870.948	2868.987	2865.116	2861.334	2857.484	2853.578	2849.564	2846.362	2843.555	2840.433
15.0	2901.396	2896.127	2889.037	2882.894	2877.130	2871.935	2866.602	2861.689	2857.721	2854.245
17.5	2863.053	2856.417	2852.238	2846.509	2839.655	2834.446	2826.700	2820.530	2813.798	2809.817
20.0	2759.290	2762.426	2756.591	2755.369	2754.382	2750.813	2750.477	2744.365	2738.788	2734.725
22.5	2610.590	2611.667	2618.442	2621.819	2624.810	2627.602	2628.783	2630.864	2629.562	2630.609
25.0	2419.374	2430.194	2442.132	2454.979	2463.145	2471.834	2479.370	2488.874	2493.652	2498.901
27.5	2203.986	2220.001	2239.193	2255.200	2275.191	2282.609	2297.104	2310.996	2325.168	2335.562
30.0	1960.680	1979.477	1999.297	2024.325	2044.043	2067.550	2084.543	2099.616	2118.197	2130.395
32.5	1703.529	1715.229	1731.844	1750.187	1771.092	1788.570	1804.237	1822.417	1843.214	1862.548
35.0	1420.841	1430.033	1441.046	1455.533	1476.932	1483.959	1488.262	1492.882	1498.943	1506.921
37.5	1130.920	1138.735	1142.473	1136.356	1136.826	1136.717	1132.868	1125.268	1120.932	1118.956
40.0	840.522	850.519	847.152	842.031	841.313	835.144	820.185	803.586	787.788	774.713
42.5	603.988	617.738	620.264	611.341	616.165	589.952	548.769	506.757	469.452	438.114
45.0	463.457	448.040	419.887	405.390	425.831	429.328	403.290	382.332	367.656	358.354
47.5	359.671	358.178	349.519	342.883	342.475	343.463	328.010	317.524	309.792	304.720
50.0	307.571	301.754	294.107	290.172	289.680	287.794	287.888	288.206	287.300	286.190
52.5	271.981	273.085	274.119	274.205	274.167	273.458	273.494	273.557	272.628	271.537
55.0	258.027	258.898	258.889	258.717	258.613	258.670	259.087	259.177	257.936	256.874
57.5	244.489	245.168	244.549	243.261	242.724	242.965	243.573	243.911	242.503	241.417
60.0	228.279	227.752	226.937	226.046	226.191	226.753	227.401	228.256	226.909	225.870
62.5	208.359	208.909	208.834	208.597	209.427	210.274	211.218	212.572	211.296	210.313
65.0	187.863	189.983	190.449	190.920	192.424	193.901	195.028	196.458	195.666	194.746
67.5	166.860	170.773	169.500	169.630	170.604	170.828	170.715	170.717	169.290	167.767
70.0	133.825	134.965	136.520	140.335	143.796	143.081	143.021	142.515	141.231	139.845
72.5	98.194	98.690	102.579	109.944	117.424	115.299	115.443	114.414	113.147	111.910
75.0	62.963	62.783	67.854	78.667	91.412	87.491	87.960	86.398	85.042	83.963
77.5	34.148	36.075	42.723	54.890	69.233	65.686	66.536	65.508	64.310	63.944

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF1-L35-750-MF-XX-DIM-UNV\_.IES**

**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	25.320	26.296	30.154	38.246	47.937	46.268	46.550	45.718	44.325	44.287
<b>82.5</b>	16.448	16.715	18.392	22.507	27.459	26.667	26.544	25.913	24.369	24.597
<b>85.0</b>	7.543	7.273	7.205	7.411	7.529	6.979	6.520	6.097	3.822	4.554
<b>87.5</b>	2.980	2.909	2.847	2.793	2.746	2.706	2.672	2.644	1.959	2.283
<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.  
Angles**

**Horizontal Angles**

	<u><b>175.0</b></u>	<u><b>177.5</b></u>	<u><b>180.0</b></u>
<b>0.0</b>	2464.855	2464.855	2464.855
<b>2.5</b>	2517.032	2516.482	2515.830
<b>5.0</b>	2575.169	2572.925	2570.676
<b>7.5</b>	2665.502	2663.882	2661.656
<b>10.0</b>	2768.279	2765.972	2762.961
<b>12.5</b>	2836.272	2834.268	2831.357
<b>15.0</b>	2850.934	2849.424	2849.424
<b>17.5</b>	2806.792	2805.592	2807.096
<b>20.0</b>	2732.076	2731.231	2732.419
<b>22.5</b>	2630.725	2637.782	2637.782
<b>25.0</b>	2504.214	2511.943	2513.034
<b>27.5</b>	2343.801	2351.199	2355.347
<b>30.0</b>	2141.102	2146.622	2153.845
<b>32.5</b>	1879.922	1886.061	1898.971
<b>35.0</b>	1516.262	1515.654	1526.805
<b>37.5</b>	1121.300	1112.300	1125.316
<b>40.0</b>	768.418	761.446	767.848
<b>42.5</b>	420.319	403.525	410.379
<b>45.0</b>	354.618	352.080	354.888
<b>47.5</b>	301.699	299.396	299.396
<b>50.0</b>	285.400	284.928	284.770
<b>52.5</b>	270.762	270.299	270.145
<b>55.0</b>	256.120	255.519	255.519
<b>57.5</b>	240.647	240.186	240.678
<b>60.0</b>	225.134	224.693	225.838
<b>62.5</b>	209.616	209.199	210.997
<b>65.0</b>	193.575	193.575	196.156
<b>67.5</b>	166.688	165.822	167.120
<b>70.0</b>	138.864	137.860	138.084
<b>72.5</b>	111.034	109.917	109.047
<b>75.0</b>	82.592	81.837	80.011
<b>77.5</b>	63.593	62.602	60.654
<b>80.0</b>	44.167	43.255	41.296
<b>82.5</b>	24.739	23.901	21.939
<b>85.0</b>	5.162	4.504	2.581
<b>87.5</b>	2.591	2.259	1.291
<b>90.0</b>	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF1-L35-750-MF-XX-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1030.18	N.A.	27.70
0-30	2088.79	N.A.	56.20
0-40	2895.05	N.A.	78.00
0-60	3493.58	N.A.	94.10
0-80	3701.15	N.A.	99.70
0-90	3713.47	N.A.	100.00
10-90	3463.95	N.A.	93.30
20-40	1864.88	N.A.	50.20
20-50	2222.81	N.A.	59.90
40-70	742.97	N.A.	20.00
60-80	207.57	N.A.	5.60
70-80	63.12	N.A.	1.70
80-90	12.32	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	3713.47	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	249.52
10-20	780.66
20-30	1058.61
30-40	806.26
40-50	357.93
50-60	240.59
60-70	144.45
70-80	63.12
80-90	12.32
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-MF-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	144	144	144	144	141	141	141	141	134	134	134	129	129	129	123	123	123	121
1	136	132	128	125	133	129	126	123	124	121	119	119	117	115	115	114	112	110
2	127	120	114	109	124	118	113	108	114	109	106	110	106	103	107	104	101	99
3	119	110	103	97	117	108	101	96	105	99	95	102	97	93	99	95	92	89
4	112	101	93	87	110	100	92	86	97	90	85	94	89	84	92	87	83	81
5	105	93	85	79	103	92	84	78	90	83	78	88	82	77	86	80	76	74
6	99	86	78	72	97	85	77	72	83	76	71	82	75	70	80	74	70	68
7	93	80	72	66	91	79	71	66	78	71	65	76	70	65	75	69	65	63
8	88	75	66	61	86	74	66	61	73	65	60	71	65	60	70	64	60	58
9	83	70	62	56	82	69	62	56	68	61	56	67	60	56	66	60	56	54
10	79	66	58	52	78	65	57	52	64	57	52	63	56	52	62	56	52	50

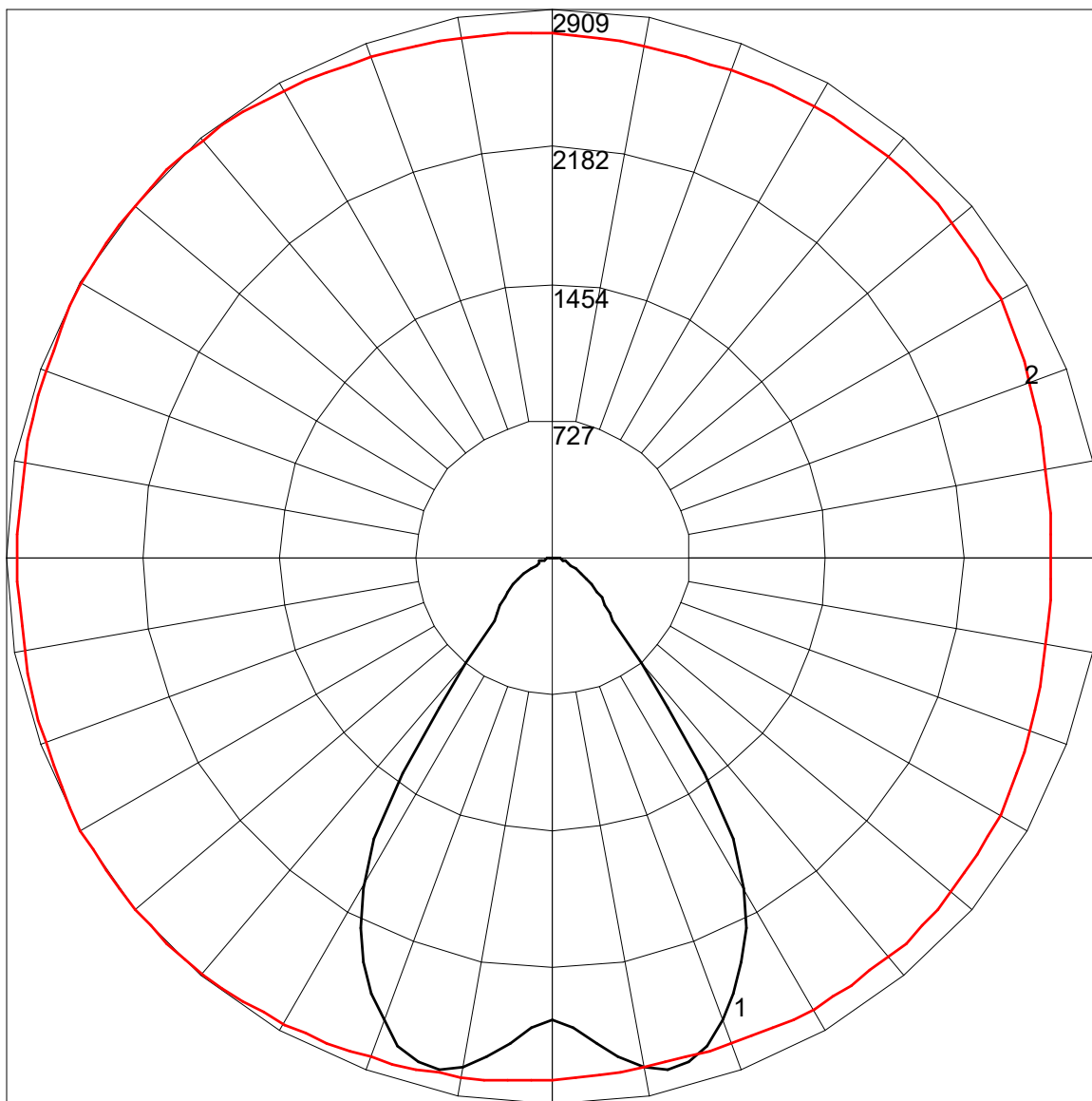
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF1-L35-750-MF-XX-DIM-UNV\_.IES**

**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	14.8	16.1	15.1	16.4	16.8	3.9	3.9	3.9	3.9	3.9
	3H	16.6	17.8	17.0	18.2	18.5	3.9	3.9	3.9	3.9	3.9
	4H	17.1	18.3	17.5	18.6	19.0	3.9	3.9	3.9	3.9	3.9
	6H	17.4	18.5	17.8	18.8	19.2	3.9	3.9	3.9	3.9	3.9
	8H	17.4	18.4	17.8	18.8	19.2	3.9	3.9	3.9	3.9	3.9
	12H	17.4	18.4	17.8	18.7	19.2	3.9	3.9	3.9	3.9	3.9
4H	2H	14.6	15.8	15.0	16.1	16.5	3.9	4.4	3.9	4.7	5.1
	3H	16.6	17.6	17.0	18.0	18.4	4.2	5.1	4.6	5.5	5.9
	4H	17.2	18.0	17.6	18.5	18.9	4.3	5.2	4.8	5.6	6.1
	6H	17.6	18.4	18.1	18.8	19.3	4.4	5.2	4.9	5.6	6.1
	8H	17.7	18.4	18.2	18.9	19.3	4.5	5.2	5.0	5.6	6.1
	12H	17.7	18.3	18.2	18.8	19.3	4.5	5.1	5.0	5.6	6.1
8H	4H	17.1	17.8	17.6	18.2	18.7	6.2	6.9	6.7	7.3	7.8
	6H	17.6	18.1	18.1	18.6	19.1	6.4	7.0	6.9	7.5	8.0
	8H	17.7	18.2	18.2	18.7	19.2	6.5	7.0	7.0	7.5	8.0
	12H	17.6	18.1	18.1	18.6	19.2	6.5	7.0	7.0	7.4	8.0
12H	4H	17.0	17.7	17.5	18.1	18.6	6.5	7.1	6.9	7.6	8.0
	6H	17.5	18.0	18.1	18.5	19.0	6.8	7.3	7.3	7.7	8.3
	8H	17.6	18.1	18.1	18.6	19.1	6.8	7.3	7.3	7.8	8.4

Maximum UGR = 19.3

POLAR GRAPH



Maximum Candela = 2908.81 Located At Horizontal Angle = 137.5, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)