



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : VF2-L57-750-WF\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST]ATAL009603-R2  
 [TESTLAB]ATAL-LABS  
 [ISSUE]29 NOV 2022  
 [MANUFAC]WILLIAMS OUTDOOR  
 [OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT]VF2-L57-750-WF-MTG-CLR-OPT-DIM-UNV  
 [LUMINAIRE]VOLTAIRE MEDIUM ARCHITECTURAL FLOOD LIGHT WITH WIDE  
 [MORE]FLOOD MOLDED REFRACTIVE CLEAR ACRYLIC LENS AND A CLEAR GLASS  
 [MORE]LENS.  
 [LAMP]LUXEON TX 3000K LEDS  
 [BALLAST](1) PHILIPS ELECTRONIC DRIVER  
 [OTHER]INPUT WATTS: 43, AMPS: 0.4428, VAC: 120.03, TEMP: 25.2 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	5711
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
Total Luminaire Watts	43
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.06
Spacing Criterion (90-270)	2.02
Spacing Criterion (Diagonal)	1.76
Basic Luminous Shape	Unknown
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.69 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	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153
<b>2.5</b>	1429.769	1429.764	1429.747	1429.720	1429.681	1429.632	1429.573	1429.502	1429.421	1429.330
<b>5.0</b>	1449.386	1449.092	1448.714	1448.257	1447.725	1447.211	1448.410	1449.034	1449.537	1449.913
<b>7.5</b>	1505.354	1504.179	1502.550	1500.486	1500.997	1501.246	1500.982	1500.192	1497.105	1497.903
<b>10.0</b>	1601.711	1598.781	1595.023	1594.516	1595.002	1594.701	1593.631	1591.812	1591.705	1590.455
<b>12.5</b>	1739.610	1734.695	1729.029	1730.077	1729.097	1726.671	1725.496	1726.689	1726.125	1723.756
<b>15.0</b>	1916.744	1910.520	1906.865	1906.702	1904.525	1903.159	1905.409	1905.625	1902.160	1905.399
<b>17.5</b>	2098.148	2093.460	2091.843	2090.988	2088.538	2092.735	2094.855	2093.313	2092.194	2090.104
<b>20.0</b>	2205.237	2209.725	2211.591	2212.838	2215.054	2218.627	2216.608	2212.788	2209.340	2206.128
<b>22.5</b>	2228.316	2225.987	2225.587	2225.189	2223.339	2221.852	2221.266	2221.839	2222.544	2223.693
<b>25.0</b>	2196.582	2194.539	2195.851	2197.464	2198.575	2199.708	2200.476	2200.970	2200.443	2199.585
<b>27.5</b>	2182.981	2182.147	2183.011	2183.878	2184.640	2184.956	2184.880	2183.476	2181.377	2177.942
<b>30.0</b>	2189.369	2189.445	2188.986	2188.293	2187.189	2185.380	2183.249	2182.863	2183.023	2182.027
<b>32.5</b>	2218.940	2219.504	2218.070	2217.587	2216.766	2214.887	2212.981	2210.772	2208.094	2204.621
<b>35.0</b>	2268.962	2268.971	2265.416	2261.653	2256.823	2251.273	2246.761	2243.193	2240.394	2237.787
<b>37.5</b>	2324.096	2323.470	2318.390	2310.567	2301.170	2291.970	2284.261	2277.492	2272.301	2267.624
<b>40.0</b>	2302.171	2299.928	2295.314	2289.069	2283.141	2278.234	2275.447	2275.193	2277.695	2284.831
<b>42.5</b>	2280.245	2275.419	2268.603	2259.937	2252.255	2243.300	2236.713	2229.084	2221.778	2222.175
<b>45.0</b>	2125.036	2120.267	2116.869	2110.063	2105.749	2098.242	2101.827	2104.059	2114.203	2134.378
<b>47.5</b>	1969.827	1963.810	1958.765	1945.311	1928.281	1907.643	1900.087	1888.180	1884.563	1880.884
<b>50.0</b>	1584.016	1581.423	1582.870	1581.222	1579.864	1580.079	1587.593	1593.648	1602.137	1601.387
<b>52.5</b>	1198.206	1196.529	1197.244	1196.163	1197.742	1202.219	1207.948	1213.230	1221.388	1225.518
<b>55.0</b>	812.395	811.614	811.770	811.659	817.724	824.696	829.121	833.273	849.046	862.480
<b>57.5</b>	670.457	668.199	662.995	654.101	646.777	633.992	613.442	586.144	572.496	549.511
<b>60.0</b>	528.519	527.350	524.884	520.494	517.774	509.733	496.550	479.845	471.918	455.330
<b>62.5</b>	386.580	386.558	387.272	387.723	389.794	387.787	382.566	376.728	374.121	366.434
<b>65.0</b>	244.642	245.818	250.105	255.698	262.743	266.819	271.948	276.564	280.184	281.375
<b>67.5</b>	211.177	211.622	212.973	213.882	215.763	214.070	214.563	214.880	214.611	213.708
<b>70.0</b>	177.712	178.334	179.235	179.314	181.120	179.000	178.930	179.203	178.551	176.808
<b>72.5</b>	144.246	145.054	145.447	144.878	146.362	144.057	143.014	143.775	142.447	139.783
<b>75.0</b>	110.781	111.779	111.617	110.446	111.516	109.217	106.874	108.548	106.312	102.665
<b>77.5</b>	83.086	84.125	84.466	83.875	84.197	82.653	79.942	81.353	78.340	73.887
<b>80.0</b>	55.391	56.492	57.502	57.649	57.793	57.350	55.547	56.658	54.807	51.967
<b>82.5</b>	27.695	28.852	30.565	31.374	31.544	32.015	31.388	32.270	31.570	30.369
<b>85.0</b>	0.000	1.206	3.644	5.064	5.405	6.652	7.393	8.002	8.527	8.996
<b>87.5</b>	0.000	0.578	1.735	2.328	2.344	2.804	2.987	3.025	3.070	3.122
<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>	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153
<b>2.5</b>	1429.229	1429.636	1429.825	1429.987	1430.121	1430.226	1430.301	1430.347	1430.362	1430.347
<b>5.0</b>	1450.157	1450.266	1450.235	1450.062	1449.745	1449.080	1449.649	1449.649	1449.474	1449.123
<b>7.5</b>	1498.230	1498.910	1499.148	1498.933	1498.259	1497.120	1495.513	1492.785	1493.135	1489.887
<b>10.0</b>	1584.284	1585.645	1583.534	1584.430	1584.384	1583.164	1580.756	1577.150	1571.230	1572.775
<b>12.5</b>	1721.950	1720.634	1719.339	1718.136	1716.384	1715.795	1713.186	1708.539	1703.052	1701.717
<b>15.0</b>	1904.740	1902.486	1896.549	1899.182	1895.899	1888.549	1889.402	1885.896	1882.384	1877.680
<b>17.5</b>	2087.961	2086.684	2085.777	2084.718	2081.428	2078.575	2075.449	2066.955	2064.749	2057.620
<b>20.0</b>	2204.756	2205.229	2208.012	2213.602	2208.723	2202.020	2200.703	2201.195	2193.808	2192.289
<b>22.5</b>	2225.189	2225.859	2227.925	2223.337	2220.283	2218.572	2217.909	2220.373	2212.938	2209.974
<b>25.0</b>	2197.346	2194.439	2192.655	2190.974	2187.585	2182.591	2176.757	2173.407	2171.078	2167.350
<b>27.5</b>	2176.355	2176.113	2173.982	2170.061	2165.108	2159.730	2155.953	2151.474	2145.108	2138.806
<b>30.0</b>	2180.849	2178.165	2173.371	2167.714	2161.867	2158.785	2154.258	2148.017	2142.475	2136.860

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**CANDELA TABULATION - (Cont.)**

<b>32.5</b>	2200.134	2193.384	2187.033	2183.855	2180.155	2174.745	2168.556	2162.282	2156.019	2151.794
<b>35.0</b>	2233.902	2228.564	2222.396	2216.486	2209.904	2203.717	2200.424	2194.395	2189.366	2183.455
<b>37.5</b>	2263.017	2258.567	2255.954	2255.455	2249.295	2243.253	2237.235	2233.999	2231.354	2225.235
<b>40.0</b>	2286.524	2278.407	2271.044	2263.358	2259.151	2261.341	2264.083	2255.544	2247.827	2251.668
<b>42.5</b>	2223.799	2224.501	2232.158	2240.977	2232.641	2216.751	2213.048	2213.317	2232.555	2215.846
<b>45.0</b>	2137.074	2116.143	2097.690	2090.321	2086.961	2099.612	2107.001	2093.440	2082.764	2091.944
<b>47.5</b>	1875.650	1876.836	1884.843	1900.657	1886.749	1863.055	1855.116	1856.417	1867.049	1868.029
<b>50.0</b>	1575.746	1558.493	1556.066	1551.325	1556.907	1557.663	1558.437	1533.099	1532.049	1535.023
<b>52.5</b>	1224.976	1220.875	1212.604	1192.393	1178.769	1177.556	1177.673	1175.662	1170.180	1167.254
<b>55.0</b>	873.662	887.662	891.665	888.330	874.461	851.435	821.641	823.450	831.171	826.062
<b>57.5</b>	537.707	566.958	590.162	609.387	618.800	620.981	607.683	586.812	549.914	556.230
<b>60.0</b>	441.592	426.200	408.776	395.478	392.982	420.827	434.031	433.420	418.102	415.086
<b>62.5</b>	359.625	350.722	341.290	332.755	325.740	318.855	312.169	310.200	318.813	322.104
<b>65.0</b>	281.813	280.061	277.776	274.578	271.418	266.999	261.180	255.566	250.478	244.868
<b>67.5</b>	213.145	213.730	217.846	219.834	219.823	216.745	211.796	207.658	203.877	200.664
<b>70.0</b>	175.506	175.119	175.377	175.048	174.263	169.080	163.894	161.825	159.585	159.462
<b>72.5</b>	137.773	136.843	136.947	136.486	135.829	131.976	127.607	123.894	120.098	119.234
<b>75.0</b>	99.971	98.657	98.594	98.303	97.940	96.493	94.206	91.317	89.180	89.419
<b>77.5</b>	69.995	67.039	64.755	62.325	61.251	62.374	61.593	59.617	59.331	60.721
<b>80.0</b>	49.538	47.805	46.422	44.931	43.831	43.039	40.367	36.728	35.119	34.548
<b>82.5</b>	29.394	28.813	28.369	27.853	27.595	27.458	25.796	23.633	23.171	23.069
<b>85.0</b>	9.470	9.990	10.513	10.998	11.531	12.070	11.688	11.074	11.420	11.818
<b>87.5</b>	3.183	3.252	3.331	3.420	3.521	3.635	3.395	3.137	3.262	3.414
<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>	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153
<b>2.5</b>	1430.302	1430.227	1430.122	1429.988	1429.827	1429.638	1429.228	1429.248	1429.142	1429.018
<b>5.0</b>	1448.597	1447.352	1447.835	1447.948	1447.931	1447.785	1447.513	1447.120	1446.610	1445.988
<b>7.5</b>	1491.606	1491.794	1491.518	1490.784	1489.601	1487.980	1485.934	1484.280	1482.906	1483.870
<b>10.0</b>	1572.923	1571.919	1569.776	1566.508	1561.039	1560.475	1556.922	1558.226	1556.434	1552.991
<b>12.5</b>	1700.746	1697.763	1692.781	1688.362	1685.140	1677.296	1676.245	1672.014	1670.760	1668.156
<b>15.0</b>	1871.633	1864.146	1857.500	1851.422	1843.488	1834.771	1834.460	1830.153	1823.722	1819.665
<b>17.5</b>	2051.306	2046.667	2041.535	2036.504	2025.818	2022.542	2014.887	2007.835	2002.847	1996.823
<b>20.0</b>	2193.013	2182.148	2174.643	2172.140	2163.797	2152.433	2144.679	2137.624	2131.851	2130.797
<b>22.5</b>	2211.059	2200.847	2195.599	2190.425	2188.710	2184.905	2176.257	2170.562	2162.852	2158.454
<b>25.0</b>	2161.915	2157.825	2153.171	2150.469	2146.255	2141.105	2137.535	2136.454	2134.977	2130.881
<b>27.5</b>	2135.519	2129.938	2123.030	2119.265	2117.041	2114.244	2109.849	2103.682	2099.961	2098.701
<b>30.0</b>	2129.093	2125.106	2122.397	2117.987	2113.452	2110.805	2108.257	2104.507	2100.042	2095.850
<b>32.5</b>	2146.581	2141.507	2137.882	2135.655	2132.807	2127.775	2121.347	2120.056	2117.486	2114.133
<b>35.0</b>	2179.837	2176.431	2172.674	2167.471	2161.850	2158.725	2155.259	2151.863	2147.189	2141.629
<b>37.5</b>	2221.555	2219.054	2209.477	2203.433	2197.852	2192.796	2185.206	2178.731	2175.123	2172.424
<b>40.0</b>	2247.842	2233.669	2230.595	2227.448	2212.828	2199.252	2193.981	2192.591	2194.538	2189.171
<b>42.5</b>	2207.282	2216.323	2199.867	2182.982	2175.622	2176.138	2170.795	2152.557	2143.020	2141.395
<b>45.0</b>	2121.088	2091.495	2082.299	2084.225	2080.489	2054.925	2041.649	2039.624	2052.357	2072.256
<b>47.5</b>	1860.991	1880.935	1892.739	1870.644	1856.109	1845.809	1859.258	1865.047	1850.440	1850.388
<b>50.0</b>	1546.250	1558.584	1561.293	1563.628	1555.671	1571.374	1558.622	1556.780	1567.199	1592.442
<b>52.5</b>	1176.125	1183.222	1180.923	1189.155	1215.736	1208.335	1210.593	1217.738	1240.877	1253.899
<b>55.0</b>	828.366	837.932	833.838	835.620	857.575	860.391	870.674	901.123	918.175	918.673
<b>57.5</b>	579.967	570.299	545.403	551.503	555.838	588.611	617.776	633.369	631.699	613.494
<b>60.0</b>	405.945	401.996	374.042	306.885	344.519	402.878	426.459	417.603	394.395	399.405
<b>62.5</b>	318.768	306.275	280.473	257.354	254.649	275.938	296.527	276.054	286.747	314.905
<b>65.0</b>	248.827	245.791	232.913	231.470	231.113	231.531	236.038	234.417	237.683	246.389
<b>67.5</b>	201.970	203.519	202.025	199.434	198.983	201.210	199.668	199.095	198.111	200.391

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**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	161.105	162.722	163.911	164.926	164.666	163.802	163.170	162.709	162.528	162.336
<b>72.5</b>	121.302	123.286	125.038	126.521	127.634	127.873	127.003	126.366	126.263	127.000
<b>75.0</b>	89.282	88.615	87.715	89.874	92.032	93.222	93.039	91.206	90.843	93.606
<b>77.5</b>	61.558	61.744	61.586	61.217	61.178	61.447	62.584	61.898	62.479	63.882
<b>80.0</b>	34.691	35.865	36.717	37.904	39.223	39.661	38.976	37.450	39.625	40.782
<b>82.5</b>	22.401	21.389	20.098	19.573	19.342	20.888	22.100	22.706	23.074	22.709
<b>85.0</b>	11.921	11.845	11.572	11.719	11.869	11.915	11.821	11.538	10.996	11.107
<b>87.5</b>	3.587	3.787	4.019	4.289	4.616	5.118	5.557	5.894	6.087	6.073
<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>	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153
<b>2.5</b>	1428.878	1428.722	1428.551	1428.368	1428.172	1427.966	1427.750	1427.525	1427.294	1427.057
<b>5.0</b>	1445.258	1443.947	1443.656	1442.895	1442.052	1441.135	1440.155	1439.623	1439.037	1438.398
<b>7.5</b>	1483.373	1482.484	1481.213	1479.616	1478.515	1477.092	1475.351	1473.961	1472.267	1470.223
<b>10.0</b>	1553.307	1552.392	1550.653	1548.125	1545.431	1543.605	1541.127	1538.777	1535.799	1533.385
<b>12.5</b>	1664.216	1661.057	1658.981	1655.642	1651.068	1647.483	1643.254	1640.138	1636.390	1633.507
<b>15.0</b>	1816.039	1810.149	1804.966	1800.517	1794.146	1788.214	1782.884	1778.174	1773.555	1768.997
<b>17.5</b>	1992.125	1983.988	1980.913	1980.143	1979.315	1976.742	1972.366	1960.902	1950.037	1938.257
<b>20.0</b>	2128.822	2127.685	2119.239	2113.478	2112.684	2110.914	2105.418	2095.658	2085.348	2073.094
<b>22.5</b>	2155.104	2153.650	2151.928	2150.342	2148.793	2146.071	2142.922	2137.679	2129.220	2119.547
<b>25.0</b>	2126.850	2122.714	2118.690	2113.806	2110.093	2107.536	2103.495	2099.167	2092.827	2086.200
<b>27.5</b>	2096.431	2093.930	2091.453	2087.310	2083.320	2080.134	2077.146	2072.330	2066.082	2058.923
<b>30.0</b>	2090.473	2085.908	2082.402	2078.410	2074.165	2070.479	2067.626	2062.511	2056.140	2048.350
<b>32.5</b>	2110.331	2104.789	2098.669	2092.735	2087.410	2083.155	2078.444	2074.283	2069.333	2062.314
<b>35.0</b>	2136.864	2132.620	2128.014	2124.762	2121.799	2119.373	2115.484	2110.403	2103.248	2094.078
<b>37.5</b>	2169.571	2167.894	2165.669	2164.275	2162.911	2161.740	2159.078	2152.876	2144.158	2133.736
<b>40.0</b>	2178.796	2171.551	2167.265	2164.261	2162.605	2162.232	2160.809	2154.985	2147.258	2137.932
<b>42.5</b>	2143.898	2147.184	2151.689	2155.310	2157.911	2161.477	2162.540	2156.472	2147.121	2134.802
<b>45.0</b>	2061.209	2051.098	2045.978	2045.396	2046.238	2049.778	2052.913	2048.252	2043.039	2037.655
<b>47.5</b>	1859.495	1874.034	1889.400	1906.628	1921.620	1934.895	1943.285	1937.625	1928.299	1915.831
<b>50.0</b>	1618.165	1611.535	1598.452	1586.752	1576.013	1573.302	1577.092	1579.247	1588.500	1604.932
<b>52.5</b>	1254.773	1245.575	1230.741	1216.434	1207.250	1205.042	1210.899	1214.636	1225.256	1241.005
<b>55.0</b>	906.532	887.860	864.981	847.065	839.413	836.564	844.706	850.287	862.131	878.232
<b>57.5</b>	580.855	581.533	615.782	641.776	663.230	678.237	690.362	689.799	683.661	669.498
<b>60.0</b>	434.077	464.462	489.932	506.830	519.564	527.826	536.019	536.422	534.556	526.474
<b>62.5</b>	340.857	361.915	374.050	379.348	379.799	378.842	381.676	383.730	388.344	390.242
<b>65.0</b>	263.991	273.459	272.346	262.044	246.095	231.656	227.332	231.894	246.729	264.422
<b>67.5</b>	204.893	204.017	197.506	195.824	193.565	191.778	192.425	192.051	193.096	195.260
<b>70.0</b>	162.978	163.452	163.290	161.478	159.184	157.308	157.517	157.868	159.675	161.548
<b>72.5</b>	128.661	129.433	128.775	127.327	124.506	122.737	122.610	123.582	126.501	127.775
<b>75.0</b>	95.519	96.307	95.596	93.527	90.814	88.028	87.702	89.295	93.477	96.017
<b>77.5</b>	64.680	64.659	63.939	63.157	66.071	66.274	66.931	68.061	68.021	66.462
<b>80.0</b>	40.165	37.949	38.546	43.719	45.964	46.306	46.159	47.804	48.100	45.634
<b>82.5</b>	22.363	21.483	23.005	25.227	27.418	26.551	25.388	27.378	28.753	27.162
<b>85.0</b>	11.006	11.349	12.262	12.860	12.175	8.547	4.616	8.751	12.890	14.193
<b>87.5</b>	5.747	5.667	5.684	6.106	5.337	3.263	2.308	3.263	5.484	6.558
<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>	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153
<b>2.5</b>	1426.816	1426.572	1426.326	1426.080	1425.835	1425.510	1425.328	1425.046	1424.765	1424.484

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L57-750-WF\_IES**

**CANDELA TABULATION - (Cont.)**

5.0	1437.707	1437.012	1436.333	1435.597	1434.805	1433.957	1433.052	1432.092	1431.078	1430.009
7.5	1468.797	1467.054	1465.017	1462.688	1459.105	1457.860	1456.311	1454.815	1453.104	1451.178
10.0	1530.779	1527.530	1523.639	1519.272	1515.966	1511.844	1504.955	1502.909	1499.448	1498.482
12.5	1629.492	1624.344	1619.863	1615.815	1610.592	1604.198	1599.753	1591.972	1591.535	1587.375
15.0	1762.816	1757.366	1752.665	1746.233	1740.095	1735.748	1729.965	1723.215	1719.705	1716.818
17.5	1926.320	1916.301	1912.237	1904.178	1896.629	1887.569	1880.651	1873.588	1861.354	1861.629
20.0	2065.711	2060.694	2048.407	2036.169	2024.424	2015.403	2008.216	2003.176	2001.352	1996.805
22.5	2108.402	2097.243	2085.760	2075.638	2067.720	2062.108	2056.918	2054.921	2049.008	2039.362
25.0	2078.932	2071.744	2064.863	2059.549	2054.176	2046.057	2037.095	2027.651	2020.881	2014.133
27.5	2051.302	2043.588	2036.418	2029.656	2021.644	2015.273	2010.786	2003.551	1994.245	1984.700
30.0	2040.704	2033.310	2027.172	2022.871	2017.631	2012.330	2005.236	1995.846	1987.595	1979.465
32.5	2055.588	2049.523	2043.472	2036.630	2029.434	2020.967	2010.613	2003.380	1995.717	1986.198
35.0	2083.848	2075.773	2066.975	2058.218	2051.444	2044.544	2035.440	2025.670	2014.471	2003.442
37.5	2122.381	2111.816	2100.746	2089.726	2080.765	2071.206	2063.007	2055.364	2045.869	2034.531
40.0	2129.394	2121.606	2115.240	2113.004	2107.535	2095.420	2084.756	2075.873	2071.052	2069.632
42.5	2122.951	2108.591	2095.484	2085.467	2079.355	2080.027	2087.822	2082.586	2072.225	2067.116
45.0	2033.573	2031.455	2035.877	2043.833	2024.363	2008.562	2003.814	2010.867	2032.097	2029.279
47.5	1899.314	1881.576	1868.586	1863.233	1866.730	1882.442	1875.525	1859.348	1867.358	1884.509
50.0	1621.831	1641.848	1663.934	1651.137	1630.412	1616.191	1617.850	1639.095	1626.918	1637.700
52.5	1259.508	1280.896	1304.539	1323.106	1325.959	1306.328	1292.781	1293.222	1311.086	1292.626
55.0	897.968	923.750	952.478	976.347	981.512	964.592	944.031	935.555	935.857	925.096
57.5	645.112	612.416	613.523	650.491	649.970	663.925	660.736	632.209	598.555	598.348
60.0	510.544	486.662	454.794	391.745	379.567	427.437	443.706	420.254	354.047	313.012
62.5	386.710	374.230	345.247	296.084	278.853	268.525	296.724	275.155	251.951	255.727
65.0	276.751	278.504	250.895	240.521	232.862	229.426	230.377	227.092	227.951	230.079
67.5	195.425	201.953	201.265	198.162	195.897	196.307	196.241	197.247	197.761	199.919
70.0	162.545	163.015	163.115	162.886	162.703	162.561	163.125	164.638	166.888	168.416
72.5	129.867	130.291	130.492	129.864	129.570	129.683	130.910	132.689	133.414	133.555
75.0	97.584	98.433	98.702	98.173	96.774	97.495	99.439	100.433	100.635	100.236
77.5	66.268	68.038	68.915	69.281	68.829	68.852	70.187	70.420	70.867	71.085
80.0	41.698	41.620	44.593	45.739	45.360	44.034	45.599	46.403	46.146	45.059
82.5	25.593	24.381	25.658	26.516	26.976	26.512	25.856	24.840	23.593	24.246
85.0	13.810	13.008	12.777	12.903	12.720	13.373	13.855	14.309	14.508	14.516
87.5	6.242	6.239	6.298	6.757	6.944	6.949	6.819	6.354	5.759	5.361
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	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153
2.5	1424.205	1423.928	1423.652	1423.380	1423.111	1422.846	1422.586	1422.330	1422.080	1421.836
5.0	1428.888	1427.772	1426.726	1425.598	1424.390	1423.104	1421.742	1420.011	1419.548	1418.992
7.5	1449.037	1446.683	1444.116	1441.891	1440.439	1437.838	1437.566	1436.552	1435.304	1433.828
10.0	1496.659	1493.966	1490.394	1485.942	1480.398	1482.207	1482.420	1481.878	1480.593	1478.578
12.5	1584.767	1582.981	1579.676	1574.851	1572.735	1569.775	1568.250	1565.269	1560.854	1558.751
15.0	1712.708	1709.018	1705.743	1701.300	1697.788	1693.547	1689.303	1681.380	1680.571	1676.194
17.5	1856.883	1851.132	1846.688	1843.272	1838.749	1832.417	1825.977	1821.499	1816.715	1810.882
20.0	1986.706	1980.626	1977.441	1970.536	1964.762	1961.921	1953.484	1944.405	1937.891	1931.479
22.5	2033.123	2028.948	2030.987	2018.508	2012.546	2014.658	2000.699	1992.577	1986.744	1982.439
25.0	2006.720	1998.341	1990.019	1985.022	1978.879	1971.988	1968.098	1964.816	1958.364	1950.889
27.5	1976.295	1970.147	1962.994	1953.573	1948.497	1944.530	1938.811	1931.357	1927.679	1923.742
30.0	1971.302	1962.683	1954.646	1948.027	1940.817	1933.722	1928.259	1923.239	1918.215	1914.118
32.5	1975.619	1965.632	1957.412	1948.696	1938.866	1931.349	1925.265	1920.109	1915.512	1910.165
35.0	1994.074	1983.556	1971.275	1958.604	1951.210	1941.122	1933.316	1926.062	1925.399	1925.371
37.5	2024.152	2013.557	2003.047	1992.089	1979.581	1970.634	1963.851	1960.207	1956.904	1953.155
40.0	2058.403	2047.714	2040.288	2030.494	2020.094	2013.672	2007.265	1999.701	1997.270	1997.003

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L57-750-WF\_IES**

**CANDELA TABULATION - (Cont.)**

42.5	2070.622	2071.208	2054.429	2049.913	2051.092	2032.766	2029.453	2028.738	2034.009	2032.790
45.0	2019.224	2020.855	2039.252	2007.392	1997.620	2006.975	2014.503	2004.905	1991.271	1992.808
47.5	1909.563	1889.553	1866.705	1878.323	1876.450	1864.338	1865.041	1874.421	1900.497	1911.931
50.0	1633.436	1636.059	1619.920	1609.291	1613.888	1619.294	1657.095	1647.481	1640.303	1632.688
52.5	1280.089	1282.550	1278.957	1273.355	1290.710	1293.898	1292.628	1298.256	1303.143	1322.228
55.0	925.339	926.408	921.100	920.948	926.614	926.963	929.450	962.162	979.596	985.545
57.5	599.130	628.882	637.476	613.132	611.232	654.750	677.331	689.039	685.744	670.932
60.0	393.732	424.566	429.623	444.941	450.224	466.655	463.736	446.803	417.900	425.681
62.5	282.806	313.927	329.029	334.815	330.329	316.732	318.023	326.972	342.147	355.183
65.0	232.753	248.385	252.168	247.712	255.209	262.220	268.888	275.386	284.069	291.062
67.5	203.296	205.617	205.733	205.425	210.369	216.191	221.655	226.955	231.022	231.825
70.0	168.599	168.720	168.181	166.922	167.819	172.224	176.174	181.095	185.801	185.878
72.5	133.432	133.158	132.361	129.773	129.499	134.685	139.537	143.901	147.816	147.636
75.0	99.327	100.393	101.104	100.150	99.075	101.736	105.318	108.067	110.099	109.824
77.5	71.412	71.707	71.878	70.959	69.429	69.951	72.133	73.383	73.399	73.973
80.0	44.179	43.843	43.376	43.689	44.244	45.683	48.872	51.444	52.950	53.897
82.5	25.166	26.910	28.284	29.166	29.188	29.518	31.336	32.832	33.592	34.001
85.0	14.474	14.875	15.012	14.907	14.362	13.859	14.241	14.466	14.452	14.230
87.5	5.023	4.734	4.484	4.267	4.077	3.919	4.148	4.369	4.622	4.788
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	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153	1425.153
2.5	1421.597	1421.366	1421.077	1420.925	1420.717	1420.517	1420.326	1420.144	1419.971	1419.809
5.0	1418.418	1417.827	1417.224	1416.610	1415.991	1415.369	1414.749	1413.953	1413.460	1413.211
7.5	1432.133	1430.227	1428.121	1426.908	1426.468	1426.733	1426.711	1426.416	1425.863	1425.182
10.0	1475.981	1475.192	1474.619	1474.409	1473.557	1472.118	1472.445	1472.292	1471.660	1470.550
12.5	1556.939	1555.202	1553.637	1552.760	1552.391	1550.741	1547.877	1546.823	1546.907	1546.203
15.0	1670.765	1666.862	1666.337	1664.440	1659.459	1658.634	1654.966	1649.903	1648.353	1647.998
17.5	1804.669	1798.646	1791.877	1787.433	1784.183	1779.567	1778.527	1770.944	1764.840	1764.986
20.0	1920.451	1910.385	1905.272	1898.790	1893.769	1890.282	1884.865	1880.748	1872.337	1867.530
22.5	1977.587	1962.861	1951.176	1940.185	1931.157	1925.611	1923.134	1922.101	1921.247	1921.028
25.0	1941.261	1932.754	1929.236	1924.636	1918.693	1912.549	1907.992	1904.478	1901.439	1899.118
27.5	1919.223	1914.231	1908.893	1902.539	1896.973	1893.561	1890.409	1888.805	1887.241	1885.831
30.0	1909.978	1905.384	1901.721	1898.716	1893.987	1889.947	1888.100	1886.981	1885.583	1884.483
32.5	1905.725	1905.253	1904.744	1904.970	1903.914	1901.135	1899.362	1897.684	1895.690	1895.265
35.0	1924.318	1924.189	1922.851	1920.812	1921.040	1920.310	1919.497	1920.204	1920.946	1922.965
37.5	1953.015	1954.600	1956.216	1956.100	1955.308	1953.567	1950.240	1951.883	1953.927	1957.181
40.0	1997.545	1996.924	1996.402	1992.408	1987.546	1984.121	1980.528	1979.964	1981.686	1984.739
42.5	2023.181	2017.512	2015.421	2012.301	2011.051	2009.750	2007.921	2006.889	2008.166	2012.117
45.0	1999.575	1994.496	1994.704	1995.171	1994.516	1980.944	1971.529	1965.975	1964.947	1968.235
47.5	1888.963	1878.347	1873.830	1877.103	1878.581	1882.400	1888.280	1895.583	1904.257	1915.033
50.0	1641.078	1649.771	1675.654	1700.045	1681.205	1660.138	1640.578	1625.893	1613.258	1608.109
52.5	1332.125	1330.799	1326.427	1319.824	1311.034	1299.235	1287.588	1280.180	1273.403	1272.432
55.0	983.046	975.785	959.348	947.831	939.967	935.099	932.554	932.019	933.054	935.518
57.5	649.351	628.061	603.126	620.794	649.852	680.131	706.580	724.861	741.050	750.282
60.0	444.255	468.181	488.715	506.136	524.412	544.949	560.294	569.688	579.355	582.099
62.5	366.685	379.125	390.435	398.023	404.842	411.457	416.560	417.761	418.714	415.390
65.0	294.813	296.819	297.991	295.114	290.252	284.126	276.499	267.412	259.029	249.996
67.5	228.080	219.731	218.714	217.431	215.888	214.234	213.319	211.516	210.536	208.674
70.0	185.436	184.878	184.810	184.624	183.829	182.194	181.967	180.347	179.150	177.382
72.5	147.589	149.017	150.570	151.661	151.756	150.175	150.327	149.397	147.707	146.076
75.0	109.141	112.664	116.056	118.572	119.668	118.173	118.452	118.619	116.220	114.767
77.5	74.741	80.583	85.804	89.366	91.151	90.193	90.316	91.177	89.009	87.842

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L57-750-WF\_.IES**

**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	54.175	57.567	61.071	63.412	64.378	63.617	63.335	64.055	62.261	61.126
<b>82.5</b>	33.771	35.097	36.692	37.628	37.765	37.071	36.543	36.772	35.558	34.396
<b>85.0</b>	13.480	13.011	12.561	11.961	11.256	10.524	9.883	9.373	8.078	7.196
<b>87.5</b>	4.663	4.553	4.456	4.371	4.298	4.235	4.181	4.137	4.101	3.635
<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>	1425.153	1425.153	1425.153
<b>2.5</b>	1419.656	1419.514	1419.383
<b>5.0</b>	1412.961	1412.710	1412.459
<b>7.5</b>	1425.739	1426.116	1426.307
<b>10.0</b>	1470.036	1471.480	1472.466
<b>12.5</b>	1544.200	1547.205	1549.782
<b>15.0</b>	1648.741	1648.345	1651.331
<b>17.5</b>	1763.809	1763.109	1764.651
<b>20.0</b>	1865.477	1862.459	1857.122
<b>22.5</b>	1923.566	1922.514	1922.514
<b>25.0</b>	1898.080	1897.720	1898.473
<b>27.5</b>	1885.239	1885.300	1886.411
<b>30.0</b>	1884.062	1884.571	1885.299
<b>32.5</b>	1895.671	1896.690	1896.117
<b>35.0</b>	1926.093	1928.044	1927.002
<b>37.5</b>	1962.516	1964.910	1962.903
<b>40.0</b>	1988.592	1990.546	1989.445
<b>42.5</b>	2014.625	2016.743	2015.986
<b>45.0</b>	1974.148	1976.882	1977.328
<b>47.5</b>	1929.263	1936.057	1938.670
<b>50.0</b>	1608.805	1607.780	1608.634
<b>52.5</b>	1276.115	1275.798	1278.599
<b>55.0</b>	943.681	940.321	948.563
<b>57.5</b>	762.986	765.836	770.563
<b>60.0</b>	589.129	589.662	592.564
<b>62.5</b>	415.596	413.590	414.564
<b>65.0</b>	236.564	236.140	236.564
<b>67.5</b>	205.705	204.499	205.695
<b>70.0</b>	173.816	172.541	174.827
<b>72.5</b>	141.959	140.541	143.958
<b>75.0</b>	109.430	108.332	113.089
<b>77.5</b>	84.006	82.121	85.105
<b>80.0</b>	57.999	55.799	57.122
<b>82.5</b>	31.979	29.500	29.138
<b>85.0</b>	5.748	3.168	1.154
<b>87.5</b>	2.893	1.588	0.577
<b>90.0</b>	0.000	0.000	0.000



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L57-750-WF\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	656.56	N.A.	11.50
0-30	1615.17	N.A.	28.30
0-40	2930.06	N.A.	51.30
0-60	5305.29	N.A.	92.90
0-80	5692.73	N.A.	99.70
0-90	5711.02	N.A.	100.00
10-90	5570.89	N.A.	97.50
20-40	2273.5	N.A.	39.80
20-50	3805.1	N.A.	66.60
40-70	2652.82	N.A.	46.50
60-80	387.44	N.A.	6.80
70-80	109.86	N.A.	1.90
80-90	18.28	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	5711.02	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	140.13
10-20	516.43
20-30	958.61
30-40	1314.88
40-50	1531.6
50-60	843.63
60-70	277.59
70-80	109.86
80-90	18.28
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 : VF2-L57-750-WF\_.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	138	138	138	138	134	134	134	134	128	128	128	123	123	123	118	118	118	116
1	128	123	119	116	125	121	117	114	116	113	110	112	109	107	108	106	104	102
2	118	110	103	97	115	108	101	96	104	98	94	100	96	92	97	93	90	88
3	108	98	89	83	106	96	88	82	93	86	80	89	84	79	87	82	78	75
4	100	87	78	71	97	86	77	70	83	75	69	80	74	68	78	72	68	65
5	92	78	68	61	89	77	68	61	74	66	60	72	65	60	70	64	59	57
6	85	70	60	53	83	69	60	53	67	59	53	65	58	52	63	57	52	50
7	78	63	54	47	76	63	53	47	61	52	46	59	52	46	58	51	46	44
8	73	58	48	42	71	57	48	41	55	47	41	54	46	41	53	46	41	39
9	68	53	43	37	66	52	43	37	51	42	37	49	42	37	48	41	36	34
10	63	48	39	33	62	48	39	33	46	39	33	45	38	33	44	38	33	31

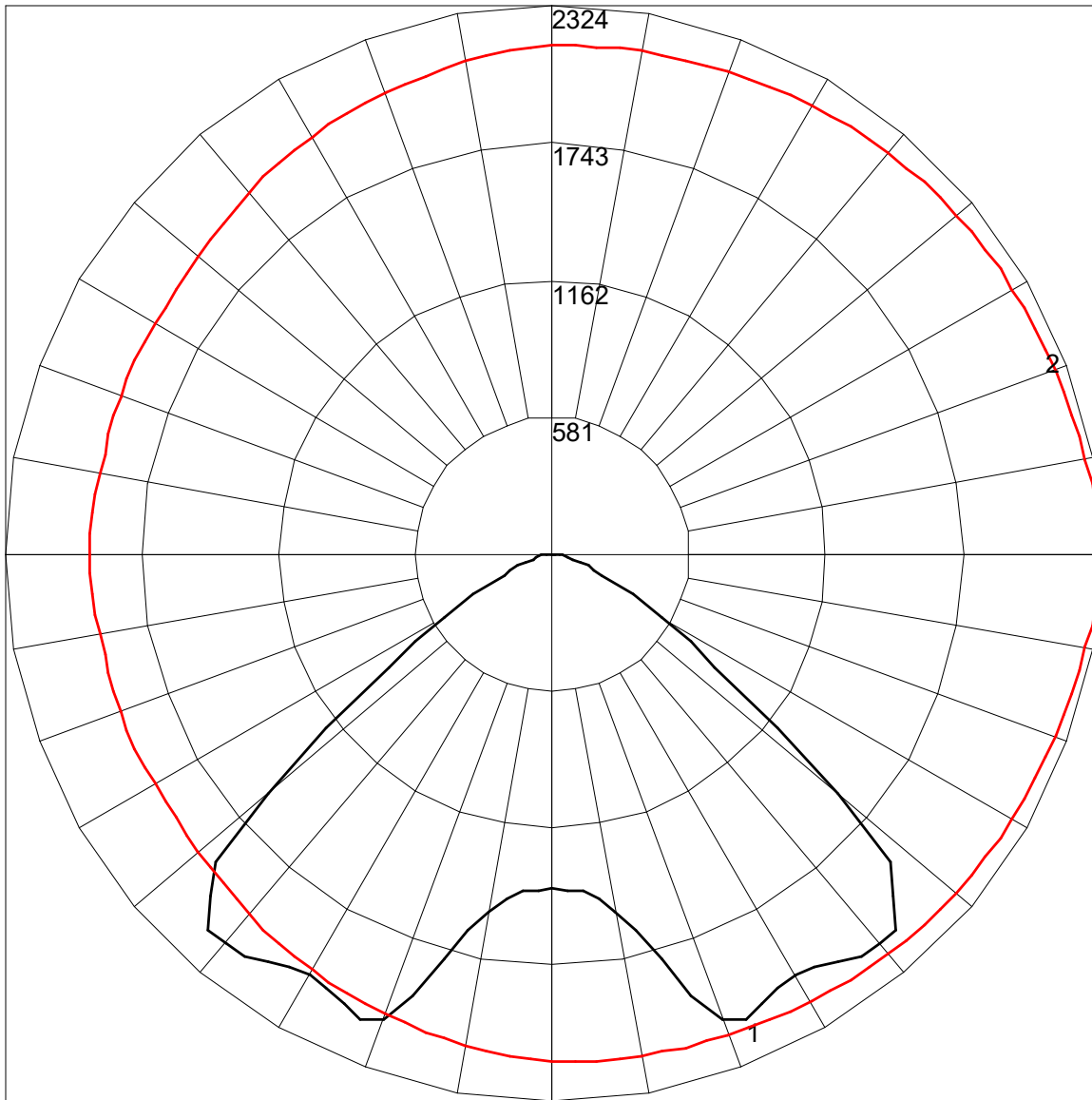
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : VF2-L57-750-WF\_.IES**

**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	22.5	24.0	22.8	24.3	24.6	5.6	5.6	5.6	5.6	5.6
	3H	23.3	24.6	23.7	25.0	25.3	5.6	5.6	5.6	5.6	5.6
	4H	23.6	24.8	24.0	25.2	25.6	5.6	5.6	5.6	5.6	5.6
	6H	23.8	24.9	24.2	25.3	25.7	5.6	5.6	5.6	5.6	5.6
	8H	23.8	24.9	24.2	25.3	25.7	5.6	5.6	5.6	5.6	5.6
	12H	23.7	24.8	24.2	25.2	25.6	5.6	5.6	5.6	5.6	5.6
4H	2H	22.3	23.6	22.7	23.9	24.3	6.9	8.2	7.3	8.5	8.9
	3H	23.2	24.2	23.6	24.6	25.0	7.2	8.2	7.6	8.6	9.0
	4H	23.5	24.4	24.0	24.8	25.3	7.2	8.1	7.6	8.5	9.0
	6H	23.7	24.5	24.1	24.9	25.4	7.1	7.9	7.6	8.4	8.8
	8H	23.7	24.5	24.2	24.9	25.4	7.1	7.9	7.6	8.3	8.8
	12H	23.7	24.4	24.2	24.8	25.3	7.1	7.7	7.6	8.2	8.7
8H	4H	23.4	24.1	23.8	24.6	25.0	8.5	9.3	9.0	9.7	10.2
	6H	23.6	24.2	24.1	24.7	25.2	8.5	9.1	9.0	9.6	10.1
	8H	23.6	24.2	24.1	24.7	25.2	8.5	9.0	9.0	9.6	10.0
	12H	23.6	24.1	24.1	24.6	25.1	8.5	9.0	9.0	9.4	10.0
12H	4H	23.4	24.0	23.8	24.5	25.0	8.7	9.4	9.2	9.9	10.3
	6H	23.5	24.1	24.1	24.6	25.1	8.7	9.3	9.3	9.7	10.3
	8H	23.6	24.1	24.1	24.5	25.1	8.7	9.2	9.2	9.7	10.3

Maximum UGR = 25.7

POLAR GRAPH



Maximum Candela = 2324.096 Located At Horizontal Angle = 0, Vertical Angle = 37.5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (37.5) (Through Max. Cd.)