



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L65-730-T3-XX-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] ATAL009382-R2  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-11-06  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMCAT] VG1-L65-730-T3-xx-xxx-DIM-UNV\_  
[LUMINAIRE] 13.5 x 16 INCH LED GARAGE LUMINAIRE  
[MORE] WITH TYPE III OPTIC AND CLEAR GLASS LENS  
[LAMPCAT] X12-LUXEON M LEDS  
[LAMP] (12) LUXEON M LEDS  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor, Architectural, Area, Canopy, Garage, Industrial, Parking, Site, Direct, Wet Location  
[SEARCH\_MOUNTING] Pendant, Surface  
[MANUFAC] WILLIAMS OUTDOOR

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6959
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	69
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2896.398
Maximum Candela Angle	82.5H 70V
Maximum Candela (<90 Degrees Vertical)	2896.398
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	861.852 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L65-730-T3-XX-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	871.5	N.A.	12.5
FM - Front-Medium (30-60)	2485.2	N.A.	35.7
FH - Front-High (60-80)	1333.6	N.A.	19.2
FVH - Front-Very High (80-90)	43.8	N.A.	0.6
BL - Back-Low (0-30)	576.7	N.A.	8.3
BM - Back-Medium (30-60)	1077.7	N.A.	15.5
BH - Back-High (60-80)	544.3	N.A.	7.8
BVH - Back-Very High (80-90)	26.3	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	6959.1	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030
2.5	1782.843	1778.515	1772.025	1773.467	1772.746	1772.025	1762.649	1752.552	1746.061	1741.012
5.0	1805.922	1802.316	1796.546	1803.037	1808.806	1811.691	1808.085	1800.152	1792.219	1779.237
7.5	1846.310	1840.540	1831.164	1836.213	1844.146	1844.867	1845.588	1848.473	1844.867	1829.001
10.0	1928.528	1922.037	1911.940	1917.710	1916.989	1902.564	1893.189	1895.352	1893.910	1875.879
12.5	1963.146	1960.262	1963.868	1982.619	1998.486	1983.340	1954.492	1945.116	1936.462	1913.383
15.0	1947.280	1945.837	1953.771	1986.225	2030.941	2053.298	2023.728	1998.486	1974.686	1942.231
17.5	1997.044	1992.716	1983.340	1993.437	2024.450	2076.377	2079.262	2050.413	2009.304	1964.589
20.0	2129.747	2118.208	2095.129	2069.886	2046.086	2067.723	2102.341	2101.620	2042.480	1984.062
22.5	2286.972	2268.220	2209.081	2160.759	2102.341	2066.280	2092.244	2130.468	2072.050	2002.813
25.0	2409.578	2400.924	2311.493	2234.323	2157.153	2090.080	2076.377	2145.614	2092.965	2017.959
27.5	2519.924	2506.942	2403.087	2290.578	2200.426	2129.026	2080.704	2151.383	2110.995	2032.383
30.0	2577.621	2562.476	2457.179	2349.718	2245.141	2171.577	2106.668	2154.990	2128.305	2044.644
32.5	2607.191	2589.161	2491.797	2393.712	2302.839	2213.408	2139.123	2165.808	2150.662	2054.741
35.0	2624.500	2607.191	2531.464	2450.688	2361.978	2261.008	2166.529	2182.396	2181.675	2069.165
37.5	2610.076	2594.209	2542.282	2502.615	2433.378	2312.214	2188.165	2194.656	2217.014	2087.195
40.0	2429.772	2413.184	2478.094	2522.088	2522.809	2373.518	2207.638	2204.032	2255.960	2113.159
42.5	2031.662	2018.680	2168.693	2473.045	2592.046	2444.197	2229.275	2211.966	2299.954	2157.153
45.0	1665.285	1671.776	1811.691	2192.493	2629.549	2509.827	2258.844	2220.620	2340.342	2209.802
47.5	1474.163	1472.720	1578.739	1822.510	2586.997	2576.900	2293.463	2232.160	2370.633	2266.057
50.0	1342.902	1345.065	1438.102	1687.642	2378.566	2641.809	2334.572	2260.287	2399.481	2323.033
52.5	1219.574	1224.623	1319.823	1638.600	2123.977	2651.185	2421.118	2352.602	2478.815	2390.827
55.0	1125.095	1131.586	1222.459	1597.491	2044.644	2486.027	2539.397	2447.082	2568.246	2518.482
57.5	1024.846	1036.386	1134.471	1547.727	1953.771	2160.759	2625.943	2548.773	2623.058	2660.561
60.0	886.373	895.027	1014.028	1448.920	1823.231	1968.195	2627.385	2558.149	2626.664	2672.822
62.5	721.936	721.215	825.791	1262.126	1640.763	1743.176	2548.052	2503.336	2617.288	2739.173
65.0	504.129	502.687	607.984	1021.961	1404.926	1480.654	2350.439	2491.076	2665.610	2786.774
67.5	300.747	309.401	375.753	752.948	1155.386	1241.211	2023.007	2514.154	2661.282	2855.289
70.0	222.134	228.625	284.880	563.269	898.634	1016.192	1717.212	2560.312	2684.361	2896.398
72.5	166.601	167.322	218.528	439.220	659.190	786.845	1408.532	2461.506	2524.973	2667.052
75.0	118.279	118.279	160.110	327.431	456.529	562.547	1016.913	2129.026	2198.262	2132.632
77.5	76.449	77.891	103.134	225.019	304.353	362.771	637.554	1679.709	1593.885	1285.205
80.0	43.273	43.273	58.418	137.752	185.352	193.286	432.729	861.852	619.523	413.256
82.5	20.194	20.915	26.685	71.400	96.643	86.546	271.898	243.771	191.843	125.491
85.0	5.049	5.770	7.933	21.636	39.667	31.733	91.594	58.418	51.927	30.291
87.5	0.000	0.000	0.000	0.721	2.164	2.164	3.606	2.885	1.442	1.442
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030	1728.030
2.5	1741.734	1736.685	1730.194	1716.491	1709.279	1707.115	1687.642	1678.267	1670.333	1671.054
5.0	1779.958	1767.697	1756.158	1725.867	1699.903	1676.824	1640.763	1616.963	1593.885	1584.509
7.5	1826.837	1810.249	1791.497	1746.061	1700.624	1658.794	1607.588	1567.200	1531.139	1509.502
10.0	1869.389	1848.473	1823.952	1765.534	1703.509	1646.533	1583.788	1532.581	1487.145	1456.854
12.5	1903.286	1878.043	1847.031	1775.631	1699.903	1630.666	1567.200	1510.224	1454.690	1410.696
15.0	1928.528	1899.680	1860.734	1777.073	1688.364	1613.357	1554.218	1484.981	1402.763	1336.411
17.5	1948.722	1913.383	1867.225	1772.025	1666.727	1596.048	1528.975	1432.332	1314.774	1212.362
20.0	1966.753	1923.480	1870.110	1761.928	1646.533	1575.854	1480.654	1340.017	1155.386	967.870
22.5	1981.898	1933.577	1869.389	1750.388	1627.782	1539.072	1404.205	1180.628	882.767	699.578
25.0	1992.716	1940.789	1867.946	1737.406	1614.800	1487.866	1293.859	936.858	667.124	599.329
27.5	2004.256	1945.837	1866.504	1726.588	1601.097	1420.793	1127.980	716.887	620.966	614.475

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**CANDELA TABULATION - (Cont.)**

30.0	2014.353	1945.116	1862.898	1715.770	1576.575	1334.968	923.876	651.978	649.814	680.105
32.5	2020.122	1941.510	1854.964	1702.788	1544.121	1228.950	752.227	659.190	704.627	740.688
35.0	2031.662	1943.674	1846.310	1692.691	1501.569	1107.786	714.003	693.809	734.918	750.063
37.5	2048.971	1948.722	1838.376	1678.988	1448.920	962.822	698.857	706.790	714.003	725.542
40.0	2068.444	1953.771	1830.443	1653.745	1384.732	805.597	681.548	681.548	681.548	729.148
42.5	2102.341	1966.753	1824.673	1614.800	1298.186	678.663	626.736	644.045	738.524	905.124
45.0	2144.171	1986.225	1826.116	1580.181	1187.119	587.790	550.287	628.899	869.785	968.591
47.5	2191.050	2016.516	1840.540	1556.381	1065.955	488.262	479.608	750.063	889.258	988.064
50.0	2238.650	2048.971	1860.734	1547.006	975.082	408.208	440.662	783.960	863.294	877.718
52.5	2294.184	2082.147	1890.304	1559.987	941.185	351.953	468.068	664.960	546.681	498.359
55.0	2418.233	2176.626	1963.146	1603.260	931.809	313.728	391.620	369.983	331.038	330.316
57.5	2563.918	2294.184	2025.892	1610.472	883.488	284.159	262.522	269.734	266.849	255.310
60.0	2586.997	2351.160	2092.965	1596.769	817.857	258.916	227.183	227.183	234.395	227.183
62.5	2645.416	2358.372	2073.492	1516.715	750.785	233.674	213.480	199.055	215.643	216.364
65.0	2688.688	2363.421	2038.153	1441.708	684.433	209.873	194.007	179.582	199.776	226.461
67.5	2772.349	2424.003	2087.195	1475.605	613.754	188.958	162.995	162.273	186.073	252.425
70.0	2830.768	2457.179	2105.947	1524.648	562.547	172.370	140.637	142.079	186.795	271.898
72.5	2623.779	2297.069	1967.474	1451.084	503.408	149.291	119.722	124.049	193.286	264.686
75.0	2098.014	1865.782	1591.000	1223.901	361.329	124.770	100.970	110.346	192.564	258.195
77.5	1169.810	1072.446	938.300	887.094	196.892	101.691	82.940	99.528	175.976	247.377
80.0	352.674	302.189	251.704	318.056	111.067	71.400	63.467	84.382	149.291	202.661
82.5	126.213	98.806	82.940	76.449	59.861	42.552	40.388	57.697	104.576	124.770
85.0	30.291	23.800	20.915	18.752	18.752	17.309	15.867	31.012	49.043	53.370
87.5	1.442	1.442	0.721	1.442	1.442	0.721	0.721	5.049	5.049	5.770
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

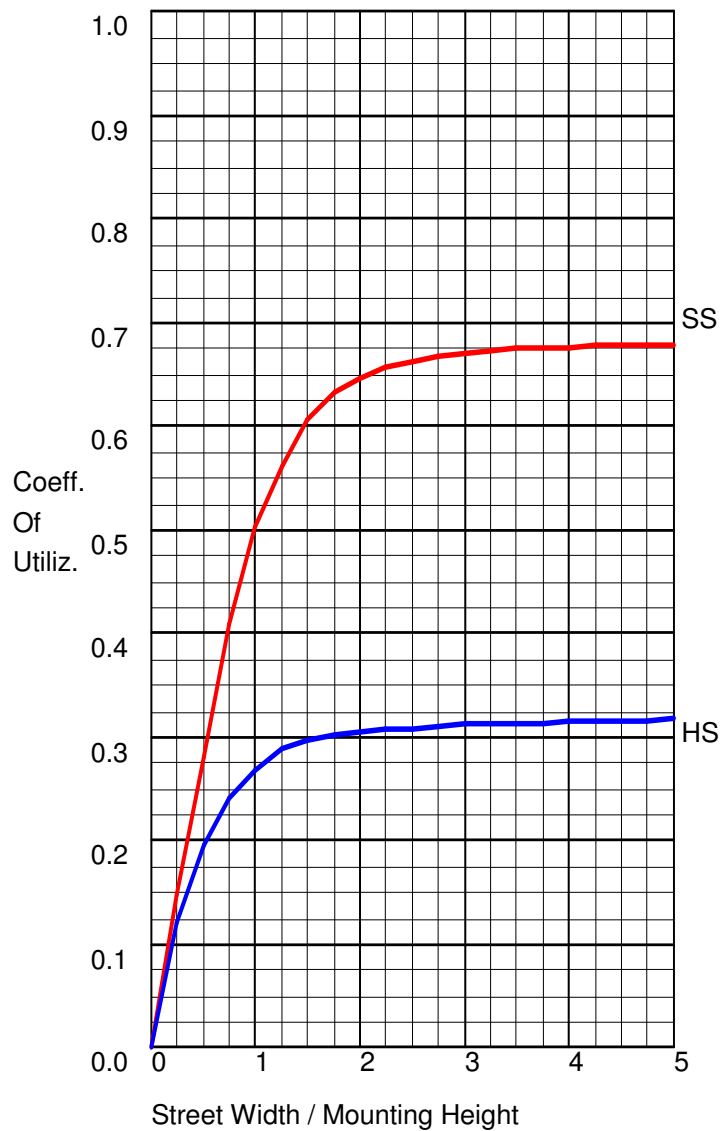
**Vert. Angles**      **Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	1728.030	1728.030
2.5	1658.073	1651.582
5.0	1567.200	1561.430
7.5	1490.030	1484.981
10.0	1433.775	1429.448
12.5	1378.963	1372.472
15.0	1289.532	1280.877
17.5	1135.192	1139.519
20.0	858.967	863.294
22.5	623.851	623.130
25.0	580.578	578.414
27.5	626.014	624.572
30.0	694.530	695.972
32.5	753.669	751.506
35.0	752.227	750.785
37.5	733.475	732.754
40.0	838.773	853.197
42.5	979.410	994.555
45.0	1016.192	1026.289
47.5	1037.107	1045.040
50.0	870.506	842.379
52.5	514.226	504.129
55.0	345.462	338.971
57.5	258.195	255.310
60.0	229.346	227.904
62.5	228.625	232.952
65.0	260.359	267.571

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L65-730-T3-XX-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	290.650	297.862
<b>70.0</b>	302.910	307.959
<b>72.5</b>	297.140	306.516
<b>75.0</b>	301.468	308.680
<b>77.5</b>	283.437	288.486
<b>80.0</b>	208.431	206.989
<b>82.5</b>	120.443	111.067
<b>85.0</b>	47.600	35.340
<b>87.5</b>	3.606	2.885
<b>90.0</b>	0.000	0.000

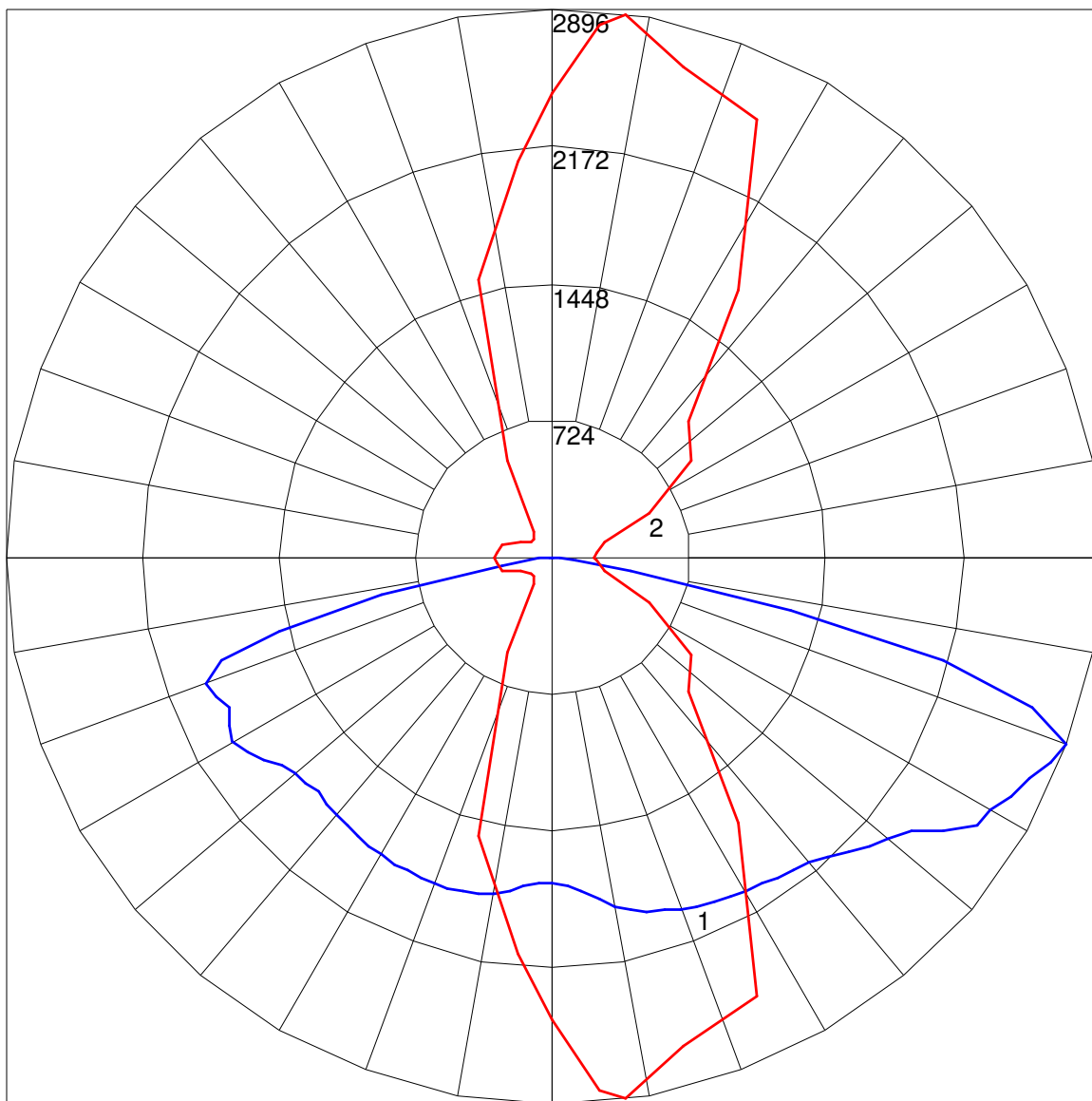
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

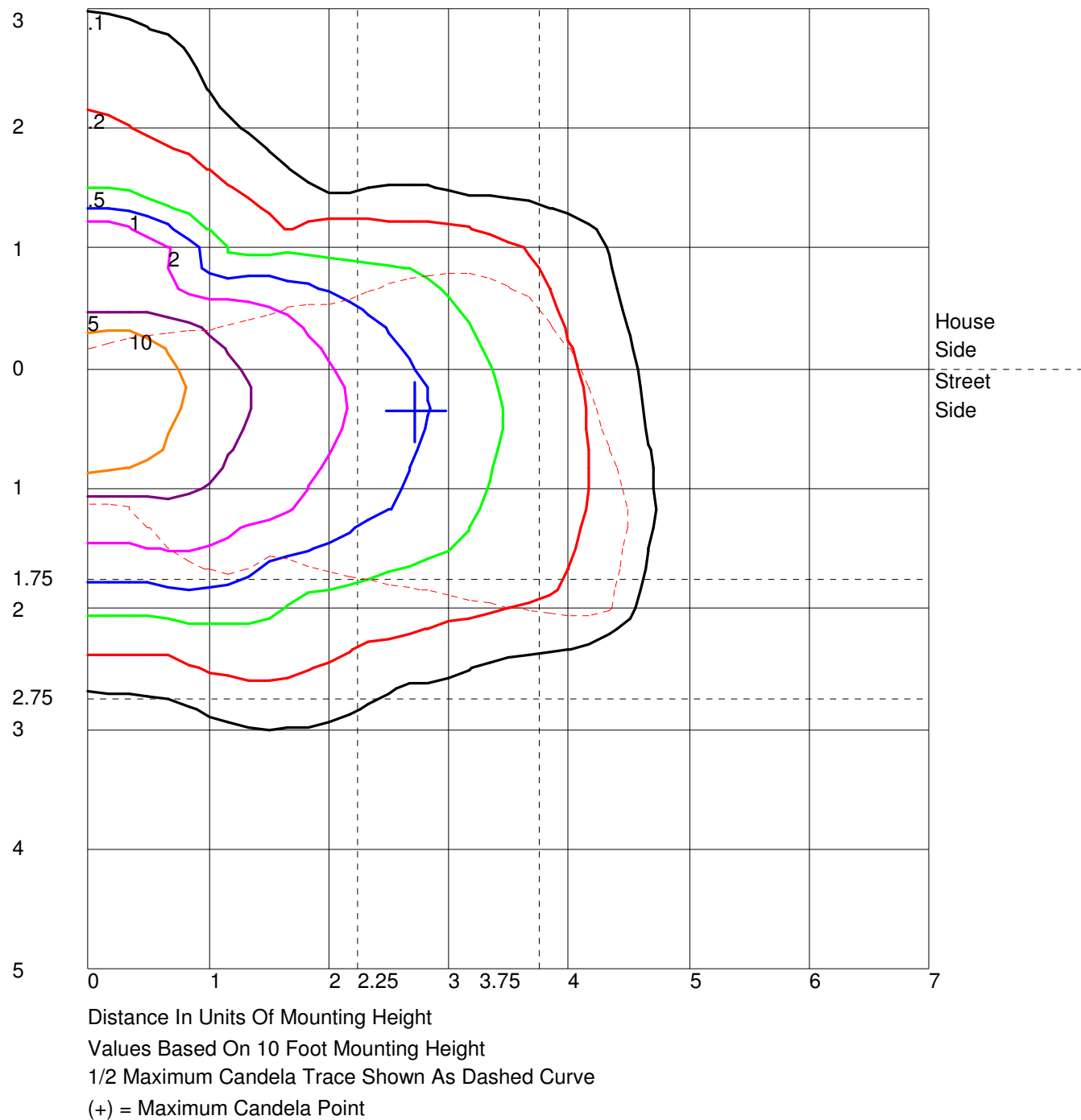
	Lumens	Percent Of Luminaire
Downward Street Side	4734.1	68.0
Downward House Side	2225.1	32.0
Downward Total	6959.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6959.2	100.0

POLAR GRAPH

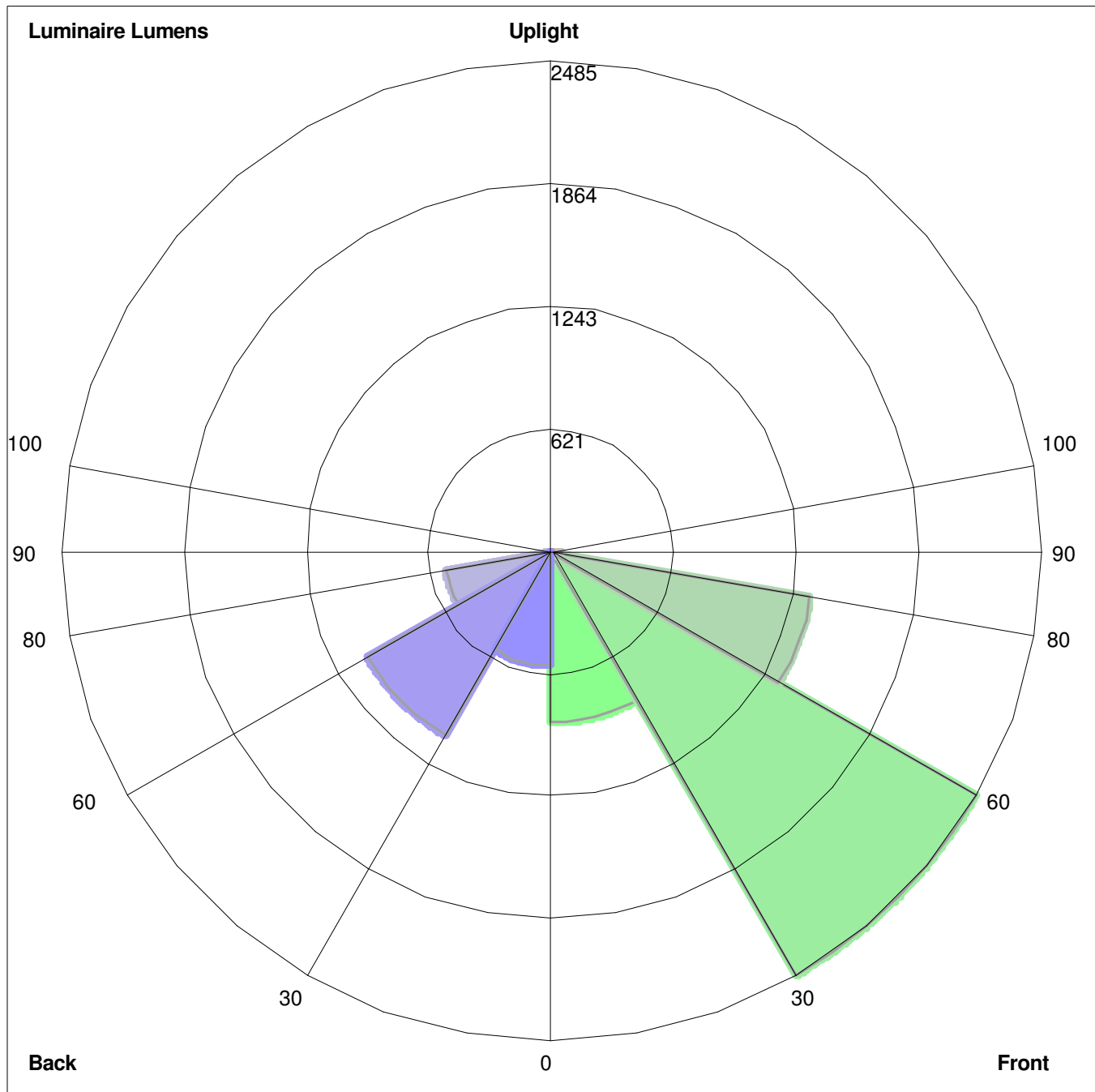


Maximum Candela = 2896.398 Located At Horizontal Angle = 82.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=871.5, Medium=2485.2, High=1333.6, Very High=43.8  
Back: Low=576.7, Medium=1077.7, High=544.3, Very High=26.3  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2