



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L65-750-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-L65-750-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	7590
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	69
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3159.026
Maximum Candela Angle	82.5H 70V
Maximum Candela (<90 Degrees Vertical)	3159.026
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	939.999 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L65-750-T3-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	950.5	N.A.	12.5
FM - Front-Medium (30-60)	2710.5	N.A.	35.7
FH - Front-High (60-80)	1454.6	N.A.	19.2
FVH - Front-Very High (80-90)	47.8	N.A.	0.6
BL - Back-Low (0-30)	629.0	N.A.	8.3
BM - Back-Medium (30-60)	1175.5	N.A.	15.5
BH - Back-High (60-80)	593.7	N.A.	7.8
BVH - Back-Very High (80-90)	28.7	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	7590.3	N.A.	100.0
BUG Rating	B2-U0-G2		

IES ROAD REPORT
PHOTOMETRIC FILENAME : VG1-L65-750-T3-XX-XXX-DIM-UNV_.IES

CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<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	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718
2.5	1944.500	1939.780	1932.701	1934.274	1933.487	1932.701	1922.475	1911.462	1904.383	1898.877
5.0	1969.671	1965.738	1959.446	1966.525	1972.818	1975.964	1972.031	1963.379	1954.726	1940.567
7.5	2013.722	2007.429	1997.203	2002.709	2011.362	2012.148	2012.935	2016.081	2012.148	1994.843
10.0	2103.395	2096.316	2085.303	2091.596	2090.809	2075.077	2064.851	2067.211	2065.638	2045.973
12.5	2141.152	2138.006	2141.939	2162.391	2179.696	2163.178	2131.713	2121.487	2112.048	2086.876
15.0	2123.847	2122.274	2130.927	2166.324	2215.094	2239.479	2207.228	2179.696	2153.738	2118.341
17.5	2178.123	2173.403	2163.178	2174.190	2208.014	2264.650	2267.797	2236.332	2191.495	2142.726
20.0	2322.859	2310.274	2285.102	2257.571	2231.613	2255.211	2292.968	2292.182	2227.680	2163.964
22.5	2494.340	2473.888	2409.386	2356.684	2292.968	2253.638	2281.956	2323.646	2259.931	2184.416
25.0	2628.064	2618.625	2521.085	2436.918	2352.751	2279.596	2264.650	2340.165	2282.742	2200.935
27.5	2748.415	2734.256	2620.985	2498.273	2399.947	2322.073	2269.370	2346.458	2302.407	2216.667
30.0	2811.344	2794.825	2679.980	2562.775	2448.717	2368.483	2297.688	2350.391	2321.286	2230.039
32.5	2843.595	2823.930	2717.738	2610.759	2511.646	2414.106	2333.085	2362.190	2345.671	2241.052
35.0	2862.474	2843.595	2761.001	2672.901	2576.148	2466.022	2362.976	2380.282	2379.495	2256.784
37.5	2846.742	2829.436	2772.800	2729.537	2654.022	2521.872	2386.575	2393.654	2418.039	2276.449
40.0	2650.089	2631.997	2702.792	2750.775	2751.562	2588.734	2407.813	2403.880	2460.516	2304.767
42.5	2215.880	2201.721	2365.336	2697.286	2827.076	2665.821	2431.412	2412.533	2508.499	2352.751
45.0	1816.283	1823.362	1975.964	2391.294	2867.980	2737.403	2463.663	2421.972	2552.549	2410.173
47.5	1607.831	1606.258	1721.889	1987.763	2821.570	2810.558	2501.420	2434.558	2585.587	2471.529
50.0	1464.668	1467.028	1568.500	1840.667	2594.240	2881.352	2546.257	2465.236	2617.051	2533.671
52.5	1330.158	1335.664	1439.496	1787.178	2316.566	2891.578	2640.650	2565.922	2703.579	2607.612
55.0	1227.112	1234.191	1333.304	1742.341	2230.039	2711.445	2769.654	2668.968	2801.118	2746.842
57.5	1117.773	1130.359	1237.338	1688.065	2130.927	2356.684	2864.047	2779.880	2860.901	2901.804
60.0	966.744	976.183	1105.974	1580.300	1988.550	2146.659	2865.620	2790.106	2864.834	2915.177
62.5	787.397	786.610	900.668	1376.568	1789.538	1901.236	2779.093	2730.323	2854.608	2987.545
65.0	549.840	548.267	663.112	1114.626	1532.316	1614.910	2563.562	2716.951	2907.311	3039.461
67.5	328.016	337.456	409.824	821.221	1260.149	1353.756	2206.441	2742.122	2902.591	3114.189
70.0	242.276	249.355	310.711	614.342	980.116	1108.334	1872.918	2792.466	2927.762	3159.026
72.5	181.707	182.494	238.343	479.045	718.962	858.192	1536.249	2684.700	2753.922	2908.884
75.0	129.004	129.004	174.627	357.121	497.924	613.556	1109.120	2322.073	2397.587	2326.006
77.5	83.381	84.954	112.485	245.422	331.949	395.665	695.363	1832.015	1738.408	1401.739
80.0	47.197	47.197	63.715	150.243	202.159	210.811	471.966	939.999	675.698	450.728
82.5	22.025	22.812	29.105	77.874	105.406	94.393	296.552	265.874	209.238	136.870
85.0	5.506	6.293	8.653	23.598	43.264	34.611	99.899	63.715	56.636	33.038
87.5	0.000	0.000	0.000	0.787	2.360	2.360	3.933	3.146	1.573	1.573
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>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	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718	1884.718
2.5	1899.663	1894.157	1887.077	1872.132	1864.266	1861.906	1840.667	1830.441	1821.789	1822.575
5.0	1941.353	1927.981	1915.395	1882.358	1854.040	1828.868	1789.538	1763.580	1738.408	1728.182
7.5	1992.483	1974.391	1953.939	1904.383	1854.826	1809.203	1753.354	1709.304	1669.973	1646.375
10.0	2038.893	2016.081	1989.337	1925.621	1857.973	1795.831	1727.396	1671.546	1621.990	1588.952
12.5	2075.864	2048.332	2014.508	1936.634	1854.040	1778.525	1709.304	1647.161	1586.592	1538.609
15.0	2103.395	2071.931	2029.454	1938.207	1841.454	1759.647	1695.145	1619.630	1529.956	1457.588
17.5	2125.420	2086.876	2036.533	1932.701	1817.856	1740.768	1667.613	1562.207	1433.990	1322.291
20.0	2145.085	2097.889	2039.680	1921.688	1795.831	1718.743	1614.910	1461.521	1260.149	1055.631
22.5	2161.604	2108.901	2038.893	1909.102	1775.379	1678.626	1531.530	1287.681	962.811	763.012
25.0	2173.403	2116.768	2037.320	1894.944	1761.220	1622.776	1411.178	1021.806	727.614	653.673
27.5	2185.989	2122.274	2035.747	1883.144	1746.274	1549.622	1230.258	781.890	677.271	670.192

IES ROAD REPORT
PHOTOMETRIC FILENAME : VG1-L65-750-T3-XX-XXX-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

30.0	2197.002	2121.487	2031.814	1871.345	1719.529	1456.015	1007.647	711.095	708.736	741.773
32.5	2203.295	2117.554	2023.161	1857.186	1684.132	1340.383	820.434	718.962	768.518	807.848
35.0	2215.880	2119.914	2013.722	1846.174	1637.722	1208.233	778.744	756.719	801.556	818.074
37.5	2234.759	2125.420	2005.069	1831.228	1580.300	1050.124	762.225	770.878	778.744	791.330
40.0	2255.998	2130.927	1996.416	1803.697	1510.291	878.643	743.346	743.346	743.346	795.263
42.5	2292.968	2145.085	1990.123	1761.220	1415.898	740.200	683.564	702.443	805.489	987.196
45.0	2338.592	2166.324	1991.697	1723.463	1294.760	641.087	600.183	685.924	948.652	1056.417
47.5	2389.721	2199.362	2007.429	1697.504	1162.610	532.535	523.096	818.074	969.890	1077.656
50.0	2441.637	2234.759	2029.454	1687.278	1063.497	445.221	480.619	855.045	941.572	957.304
52.5	2502.206	2270.943	2061.705	1701.437	1026.526	383.866	510.510	725.254	596.250	543.548
55.0	2637.503	2373.989	2141.152	1748.634	1016.300	342.175	427.129	403.531	361.054	360.267
57.5	2796.399	2502.206	2209.588	1756.500	963.597	309.924	286.326	294.192	291.046	278.460
60.0	2821.570	2564.349	2282.742	1741.555	892.016	282.393	247.782	247.782	255.648	247.782
62.5	2885.286	2572.215	2261.504	1654.241	818.861	254.862	232.837	217.104	235.196	235.983
65.0	2932.482	2577.721	2222.960	1572.433	746.493	228.904	211.598	195.866	217.891	246.996
67.5	3023.729	2643.796	2276.449	1609.404	669.405	206.092	177.774	176.987	202.945	275.314
70.0	3087.444	2679.980	2296.901	1662.894	613.556	188.000	153.389	154.962	203.732	296.552
72.5	2861.687	2505.353	2145.872	1582.659	549.054	162.828	130.577	135.297	210.811	288.686
75.0	2288.249	2034.960	1735.262	1334.877	394.092	136.084	110.125	120.351	210.025	281.606
77.5	1275.881	1169.689	1023.380	967.530	214.745	110.912	90.460	108.552	191.933	269.807
80.0	384.652	329.590	274.527	346.895	121.138	77.874	69.222	92.033	162.828	221.037
82.5	137.657	107.766	90.460	83.381	65.289	46.410	44.050	62.929	114.058	136.084
85.0	33.038	25.958	22.812	20.452	20.452	18.879	17.305	33.824	53.489	58.209
87.5	1.573	1.573	0.787	1.573	1.573	0.787	0.787	5.506	5.506	6.293
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

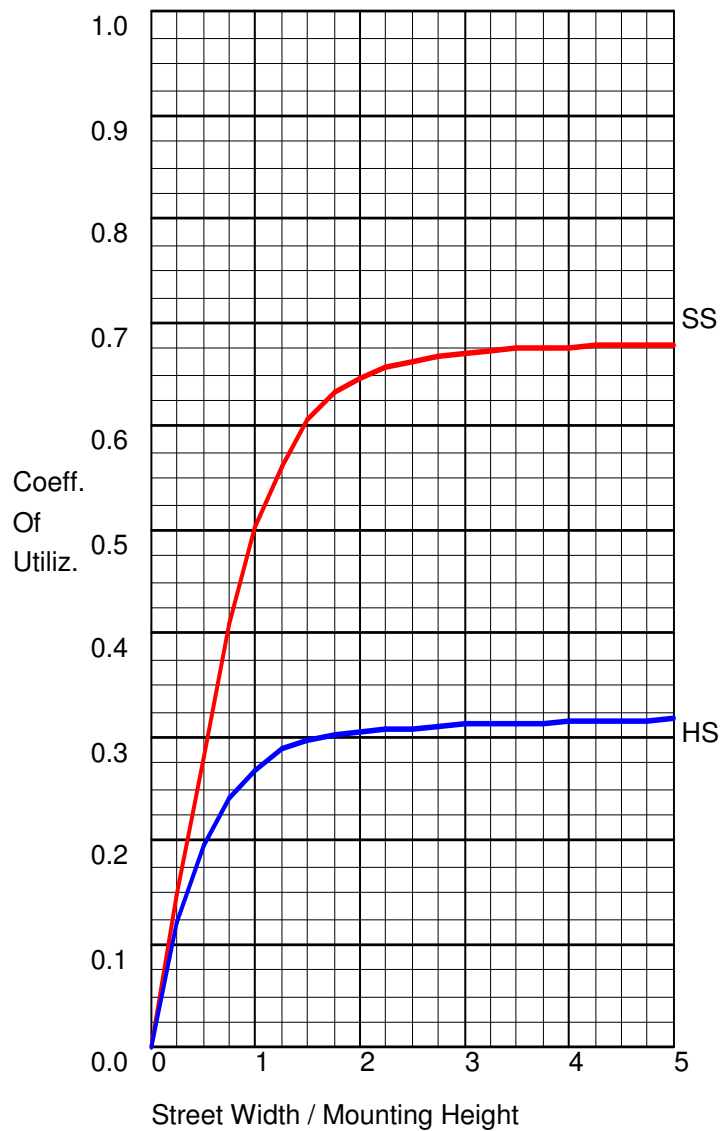
Vert. Angles **Horizontal Angles**

	<u>175.0</u>	<u>180.0</u>
0.0	1884.718	1884.718
2.5	1808.416	1801.337
5.0	1709.304	1703.011
7.5	1625.136	1619.630
10.0	1563.781	1559.061
12.5	1503.998	1496.919
15.0	1406.459	1397.019
17.5	1238.124	1242.844
20.0	936.853	941.572
22.5	680.418	679.631
25.0	633.221	630.861
27.5	682.777	681.204
30.0	757.505	759.079
32.5	822.007	819.648
35.0	820.434	818.861
37.5	799.982	799.196
40.0	914.827	930.560
42.5	1068.216	1084.735
45.0	1108.334	1119.346
47.5	1131.145	1139.798
50.0	949.438	918.760
52.5	560.853	549.840
55.0	376.786	369.707
57.5	281.606	278.460
60.0	250.142	248.569
62.5	249.355	254.075
65.0	283.966	291.832

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L65-750-T3-XX-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	317.004	324.870
70.0	330.376	335.882
72.5	324.083	334.309
75.0	328.803	336.669
77.5	309.138	314.644
80.0	227.330	225.757
82.5	131.364	121.138
85.0	51.916	38.544
87.5	3.933	3.146
90.0	0.000	0.000

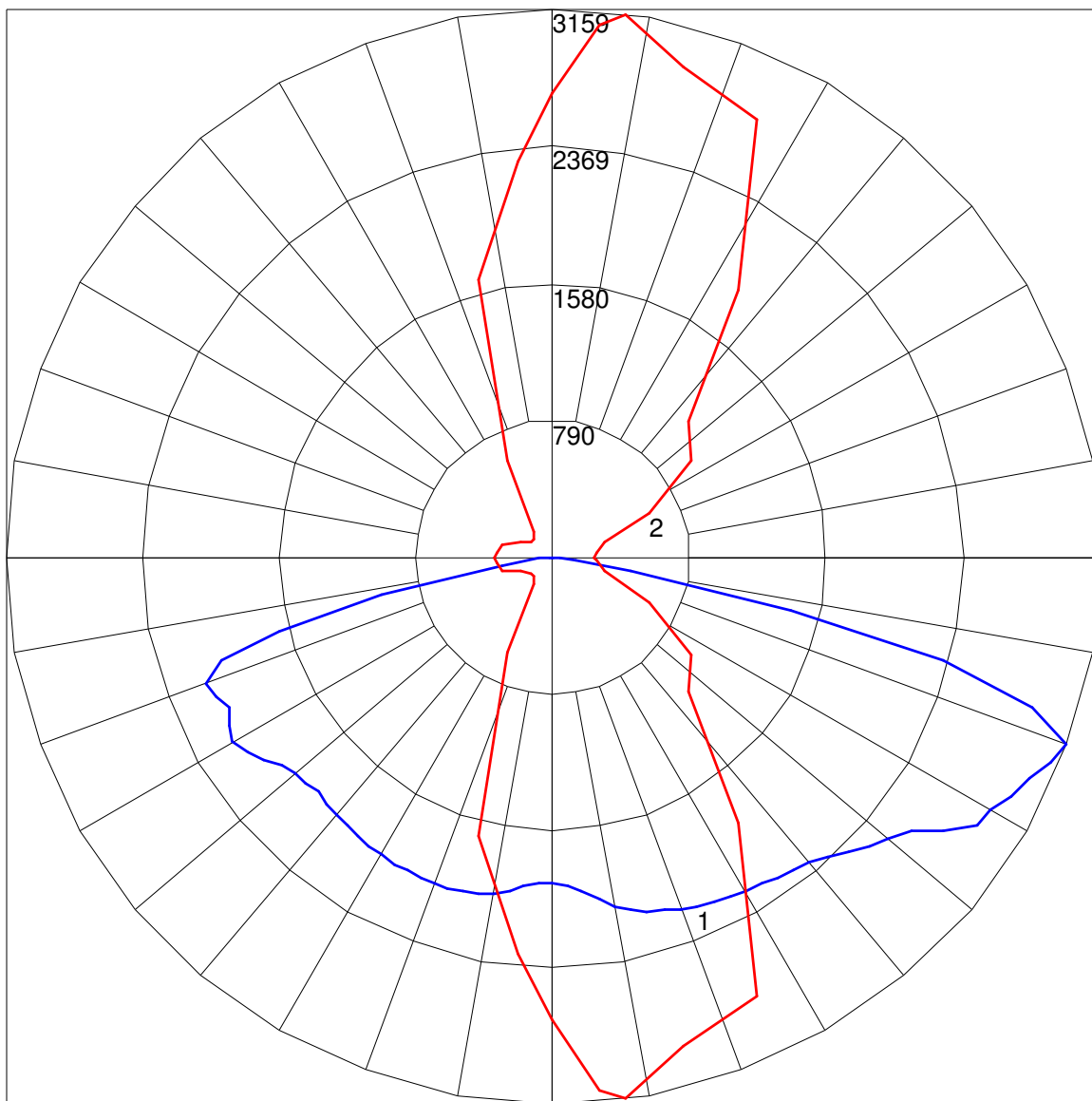
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

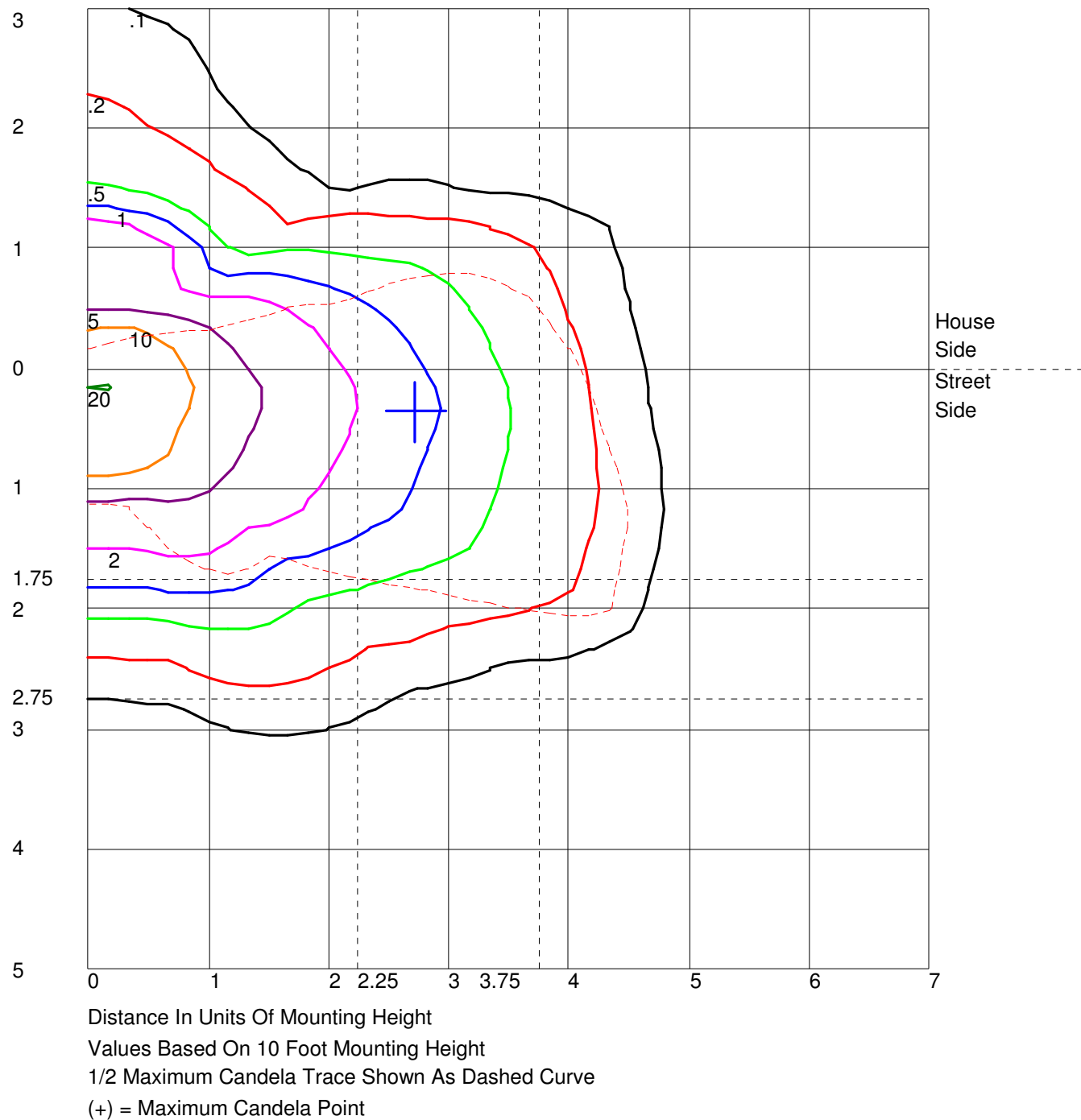
	Lumens	Percent Of Luminaire
Downward Street Side	5163.4	68.0
Downward House Side	2426.8	32.0
Downward Total	7590.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7590.2	100.0

POLAR GRAPH

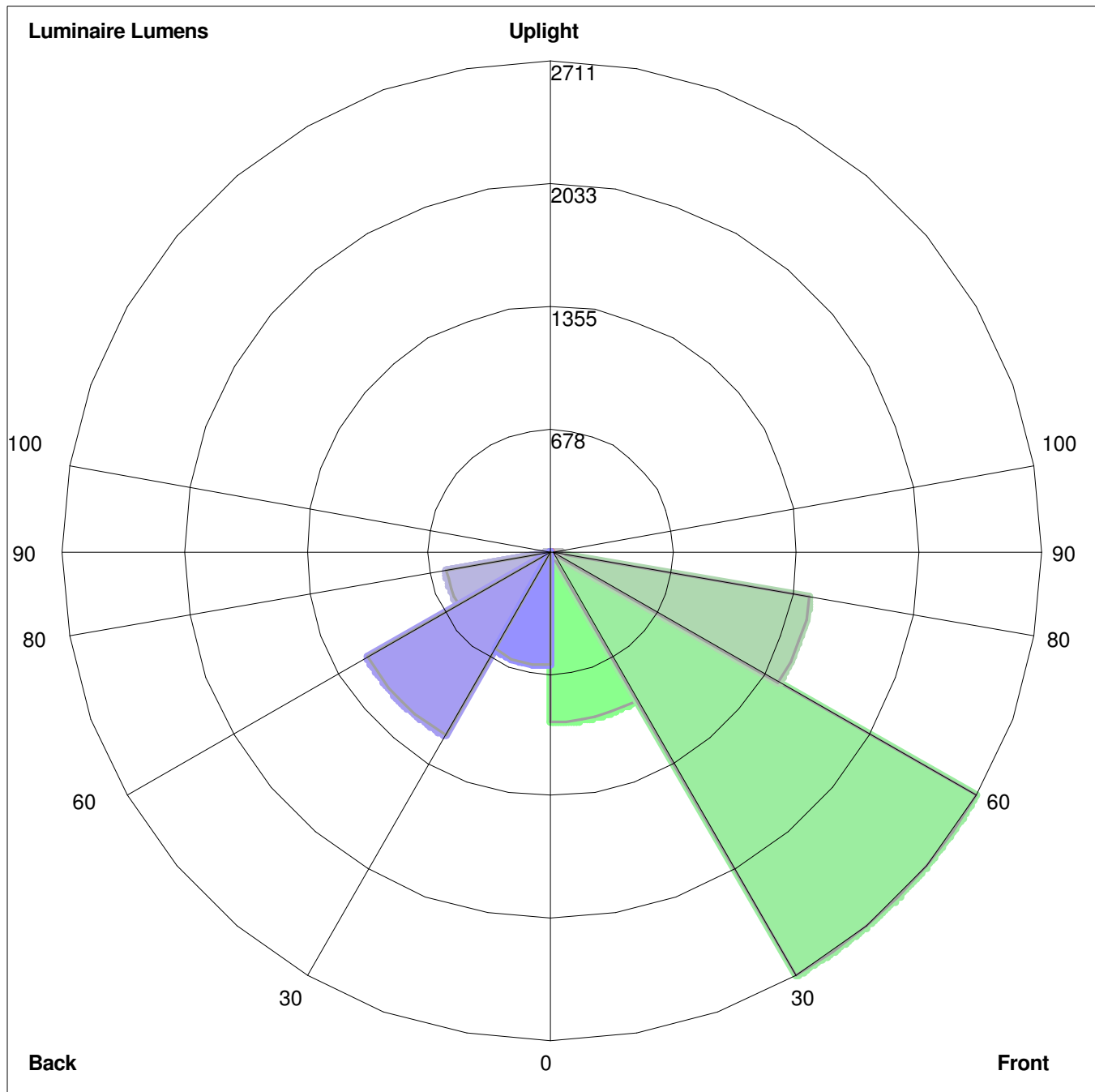


Maximum Candela = 3159.026 Located At Horizontal Angle = 82.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=950.5, Medium=2710.5, High=1454.6, Very High=47.8
Back: Low=629.0, Medium=1175.5, High=593.7, Very High=28.7
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2