



## IES ROAD REPORT

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

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] ATAL009393-R2  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-11-06  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VG1-L65-730-TFL-xx-xxx-DIM-UNV\_  
[LUMINAIRE] 13.5 x 16 INCH DIE CAST LED LUMINAIRE  
[MORE] WITH TFL FLOOD 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

### CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7496
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	109
Total Luminaire Watts	69
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3138.762
Maximum Candela Angle	45H 45V
Maximum Candela (<90 Degrees Vertical)	3138.762
Maximum Candela Angle (<90 Degrees Vertical)	45H 45V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	54.154 (0.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	922.5	N.A.	12.3
FM - Front-Medium (30-60)	2548.6	N.A.	34.0
FH - Front-High (60-80)	269.6	N.A.	3.6
FVH - Front-Very High (80-90)	7.4	N.A.	0.1
BL - Back-Low (0-30)	922.5	N.A.	12.3
BM - Back-Medium (30-60)	2548.6	N.A.	34.0
BH - Back-High (60-80)	269.6	N.A.	3.6
BVH - Back-Very High (80-90)	7.4	N.A.	0.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7496.2	N.A.	100.0
BUG Rating	B3-U0-G0		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314
2.5	2097.387	2098.119	2100.314	2100.314	2098.119	2101.046	2101.046	2100.314	2100.314	2099.582
5.0	2096.655	2095.192	2094.460	2095.192	2092.996	2095.923	2098.119	2098.119	2098.851	2096.655
7.5	2094.460	2091.532	2090.069	2090.069	2090.801	2093.728	2098.119	2099.582	2101.046	2098.119
10.0	2094.460	2090.069	2086.410	2089.337	2092.996	2097.387	2103.973	2106.901	2109.828	2106.901
12.5	2098.119	2095.192	2090.801	2095.192	2103.242	2108.364	2116.414	2120.805	2124.464	2123.001
15.0	2114.219	2112.023	2108.364	2114.219	2125.196	2131.051	2139.101	2145.687	2150.078	2148.614
17.5	2133.246	2132.514	2132.514	2140.564	2155.201	2163.982	2171.301	2180.082	2184.473	2184.473
20.0	2147.882	2149.346	2153.737	2166.178	2185.937	2201.305	2211.550	2222.528	2229.114	2229.846
22.5	2148.614	2152.273	2163.982	2185.205	2212.282	2235.700	2253.264	2266.437	2278.878	2280.341
25.0	2133.978	2140.564	2163.251	2197.646	2235.700	2270.096	2298.637	2316.200	2333.764	2335.959
27.5	2112.023	2125.196	2158.128	2205.696	2261.314	2308.150	2349.864	2377.673	2401.091	2404.750
30.0	2103.242	2121.537	2163.982	2221.796	2294.246	2357.914	2412.800	2456.709	2489.641	2497.691
32.5	2116.414	2137.637	2185.937	2251.800	2339.618	2423.046	2495.495	2555.504	2597.218	2611.122
35.0	2139.101	2161.055	2213.014	2290.587	2392.309	2495.495	2586.241	2664.545	2717.968	2736.263
37.5	2158.128	2179.351	2235.700	2327.178	2447.195	2565.750	2671.863	2768.463	2837.986	2860.672
40.0	2164.714	2187.400	2249.605	2354.255	2494.032	2628.686	2747.240	2854.817	2946.295	2986.544
42.5	2179.351	2204.232	2273.023	2385.723	2529.159	2663.813	2787.490	2914.826	3034.844	3088.999
45.0	2204.964	2233.505	2311.809	2424.509	2549.650	2654.300	2755.290	2909.704	3070.703	3138.762
47.5	2202.037	2232.773	2314.737	2417.923	2506.473	2571.604	2654.300	2825.545	3028.258	3127.053
50.0	2068.846	2103.973	2195.450	2291.318	2360.109	2403.286	2493.300	2688.695	2901.654	3005.572
52.5	1777.583	1815.638	1909.310	2022.010	2092.264	2161.787	2284.000	2481.591	2652.104	2715.040
55.0	1391.184	1433.629	1530.961	1650.979	1737.333	1840.519	1976.637	2157.396	2251.069	2262.778
57.5	995.271	1031.862	1127.730	1264.579	1354.593	1462.902	1598.288	1732.942	1760.751	1762.215
60.0	604.481	629.362	706.935	847.444	951.362	1058.207	1166.516	1256.529	1262.384	1266.043
62.5	335.904	351.272	403.963	482.999	572.281	659.367	736.940	789.630	791.094	796.217
65.0	218.081	223.204	247.354	286.140	329.318	380.545	419.331	449.336	452.995	468.363
67.5	155.877	159.536	171.977	193.200	215.886	242.231	265.650	283.213	287.604	294.190
70.0	117.823	120.018	128.068	141.241	155.145	169.782	183.686	194.663	198.322	201.981
72.5	90.745	92.209	98.063	106.845	114.895	125.141	133.191	140.509	143.436	146.363
75.0	68.059	70.254	73.913	79.768	84.891	92.209	97.332	102.454	104.650	106.845
77.5	49.032	50.495	53.423	57.814	61.473	66.595	69.523	73.182	75.377	78.304
80.0	30.736	32.200	35.127	38.054	40.982	43.909	45.373	49.032	51.959	54.154
82.5	14.636	16.100	19.027	21.955	24.150	24.882	25.614	27.077	30.004	33.664
85.0	5.123	5.855	7.318	9.514	10.245	10.245	9.514	9.514	10.977	13.173
87.5	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464	2.195
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

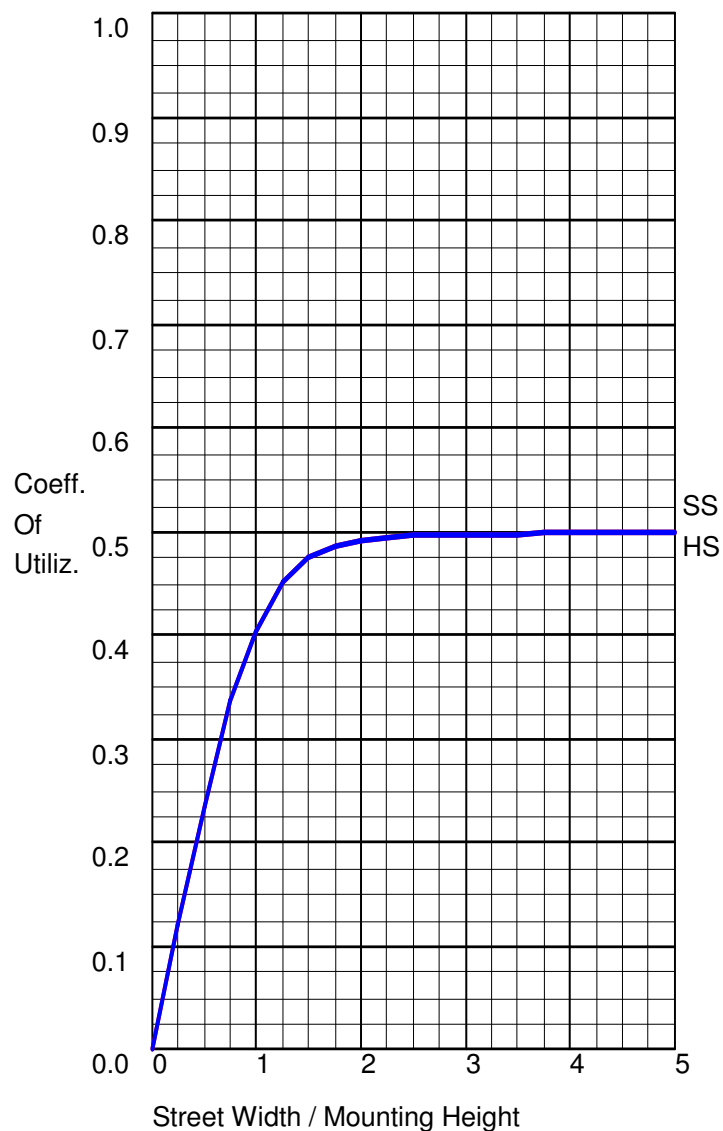
<b>Vert. Angles</b>	<b>Horizontal Angles</b>								
	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314	2100.314
2.5	2101.778	2105.437	2102.510	2095.923	2092.996	2093.728	2097.387	2098.119	2098.119
5.0	2098.119	2099.582	2096.655	2092.264	2091.532	2091.532	2094.460	2094.460	2094.460
7.5	2098.851	2097.387	2093.728	2091.532	2091.532	2090.069	2091.532	2090.069	2090.069
10.0	2105.437	2100.314	2095.923	2094.460	2094.460	2091.532	2089.337	2086.410	2086.410
12.5	2118.610	2111.292	2106.169	2105.437	2103.973	2099.582	2092.996	2089.337	2087.873
15.0	2141.296	2132.514	2128.855	2127.392	2125.196	2120.073	2109.096	2103.973	2101.046
17.5	2174.960	2163.982	2161.055	2159.591	2155.932	2147.151	2129.587	2122.269	2118.610
20.0	2219.600	2203.500	2198.378	2194.719	2187.400	2172.032	2147.882	2133.246	2128.855
22.5	2265.705	2246.678	2236.432	2228.382	2215.210	2190.328	2157.396	2133.246	2125.196
25.0	2319.128	2297.173	2279.609	2264.241	2240.091	2202.037	2157.396	2121.537	2109.096
27.5	2387.186	2360.841	2333.764	2304.491	2264.973	2211.550	2153.737	2108.364	2090.069

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**CANDELA TABULATION - (Cont.)**

30.0	2478.664	2444.268	2404.750	2357.914	2299.368	2229.846	2162.519	2110.560	2088.605
32.5	2593.559	2549.650	2494.764	2426.705	2346.205	2259.850	2183.010	2127.392	2103.973
35.0	2717.236	2663.813	2589.900	2500.618	2397.432	2293.514	2207.891	2150.810	2127.392
37.5	2835.790	2769.927	2676.986	2570.141	2448.659	2327.178	2230.578	2168.373	2145.687
40.0	2948.490	2860.672	2754.559	2630.881	2491.104	2352.791	2243.750	2177.155	2152.273
42.5	3041.431	2922.145	2793.345	2663.081	2522.573	2377.673	2257.655	2183.741	2155.201
45.0	3075.826	2914.826	2757.486	2642.591	2524.768	2385.723	2256.191	2168.373	2133.246
47.5	3030.453	2829.204	2646.981	2534.282	2450.855	2329.373	2204.232	2103.973	2065.187
50.0	2900.922	2685.036	2469.882	2343.277	2281.805	2177.155	2062.260	1950.292	1907.846
52.5	2657.227	2458.905	2245.214	2090.801	2015.424	1921.751	1822.224	1718.306	1683.179
55.0	2251.800	2133.246	1939.315	1774.656	1692.692	1616.583	1538.279	1450.461	1408.016
57.5	1761.483	1705.133	1560.965	1418.993	1348.738	1290.925	1235.307	1172.371	1146.025
60.0	1268.239	1231.648	1137.243	1027.471	976.244	935.262	900.135	854.762	837.198
62.5	810.121	785.971	713.521	641.803	607.408	581.063	563.499	536.422	527.640
65.0	461.776	446.408	409.086	375.422	353.468	330.781	319.804	300.777	297.849
67.5	289.068	278.822	262.722	242.231	226.131	211.495	196.127	184.418	182.954
70.0	198.322	191.736	182.222	169.050	158.072	144.168	130.995	122.213	121.482
72.5	143.436	139.045	132.459	122.945	113.432	101.723	91.477	84.891	84.159
75.0	105.382	102.454	98.063	89.282	81.232	71.718	63.668	58.545	57.814
77.5	76.841	74.645	71.718	64.400	57.082	49.764	42.445	38.786	38.786
80.0	53.423	51.959	49.764	44.641	38.054	31.468	25.614	23.418	22.686
82.5	33.664	32.200	31.468	26.345	21.955	16.832	13.173	10.977	10.977
85.0	13.173	12.441	13.173	11.709	9.514	6.586	5.855	4.391	4.391
87.5	2.195	1.464	1.464	1.464	1.464	1.464	1.464	1.464	1.464
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

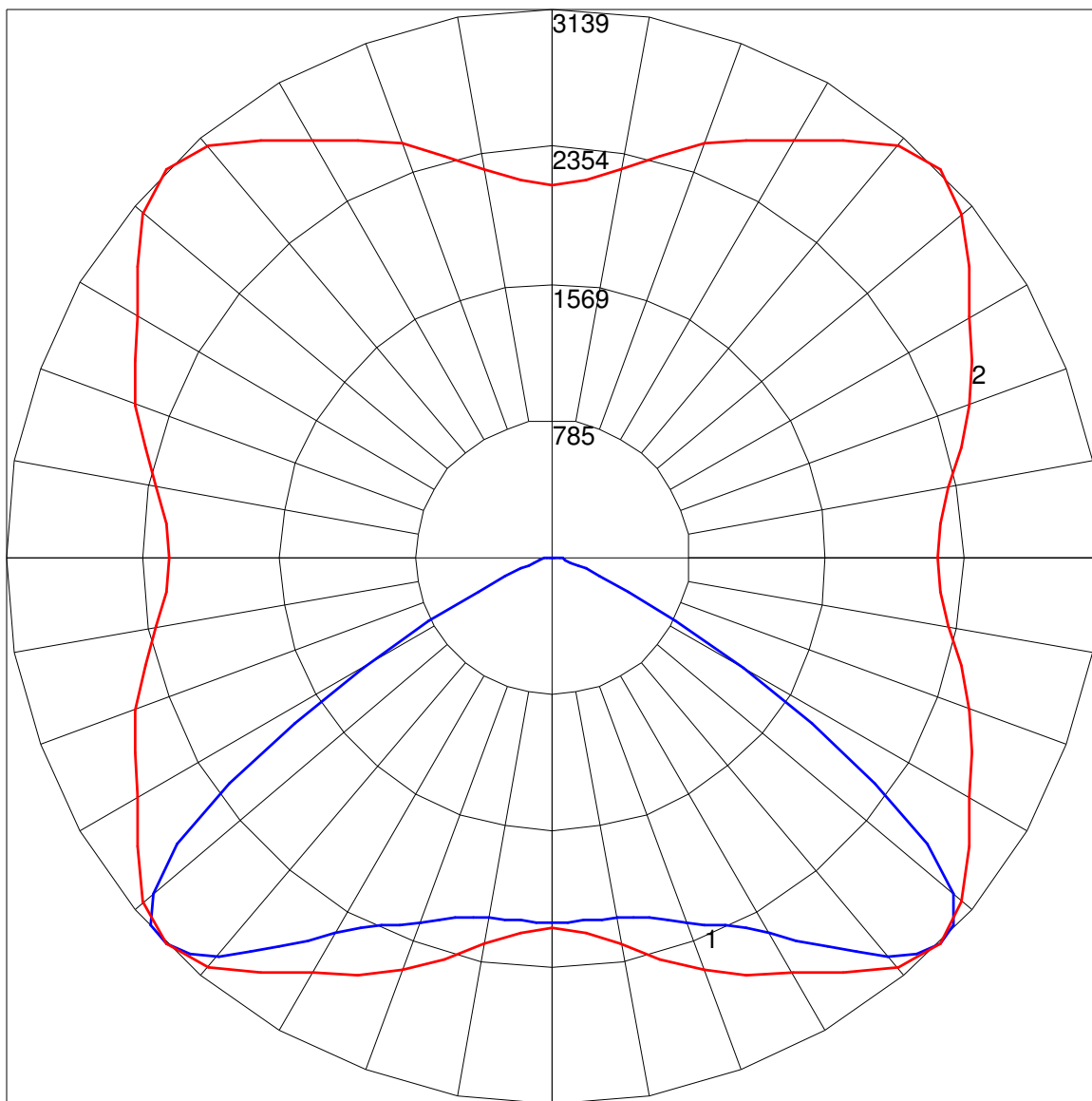
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

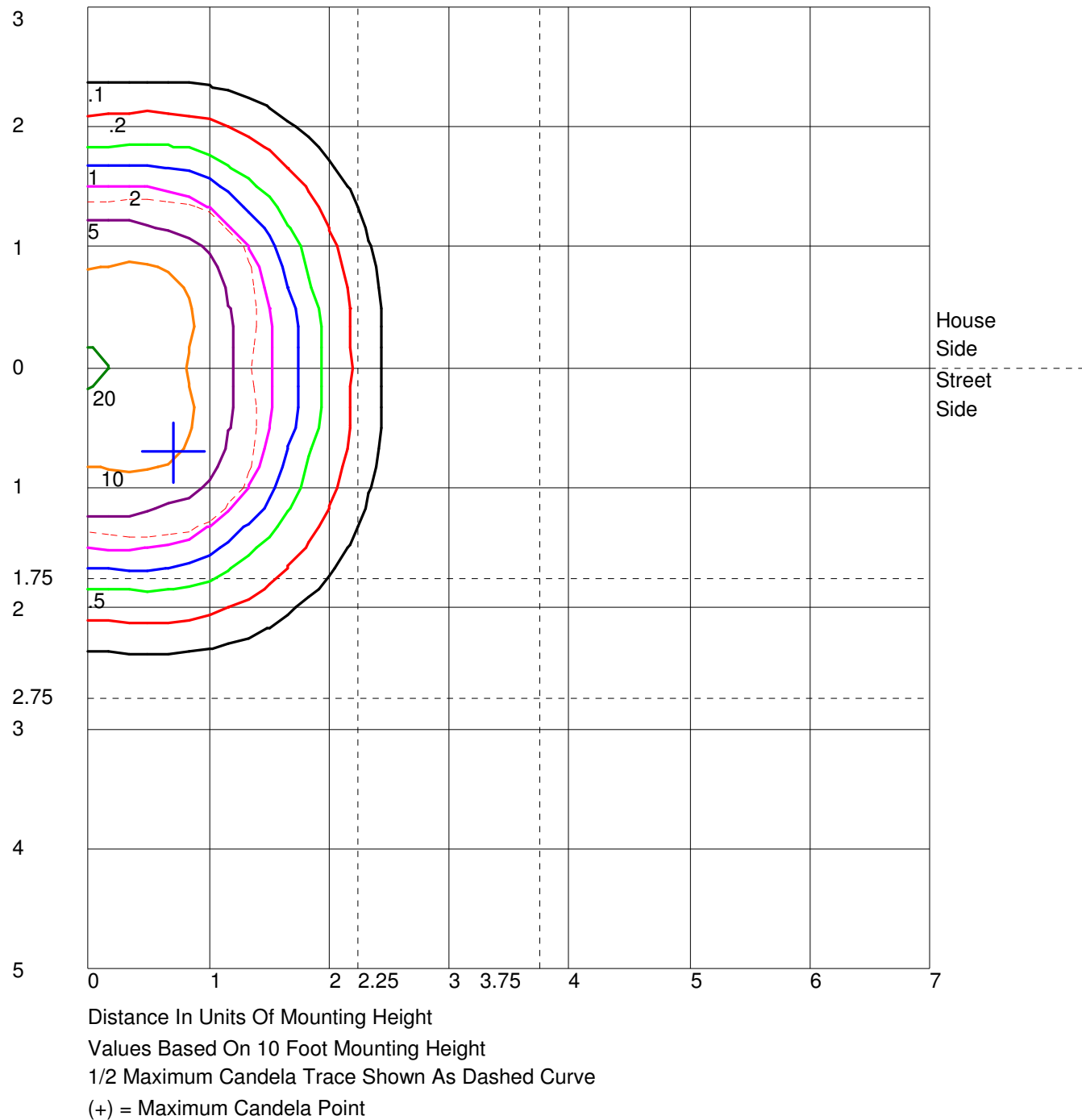
	Lumens	Percent Of Luminaire
Downward Street Side	3748.1	50.0
Downward House Side	3748.1	50.0
Downward Total	7496.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7496.2	100.0

POLAR GRAPH

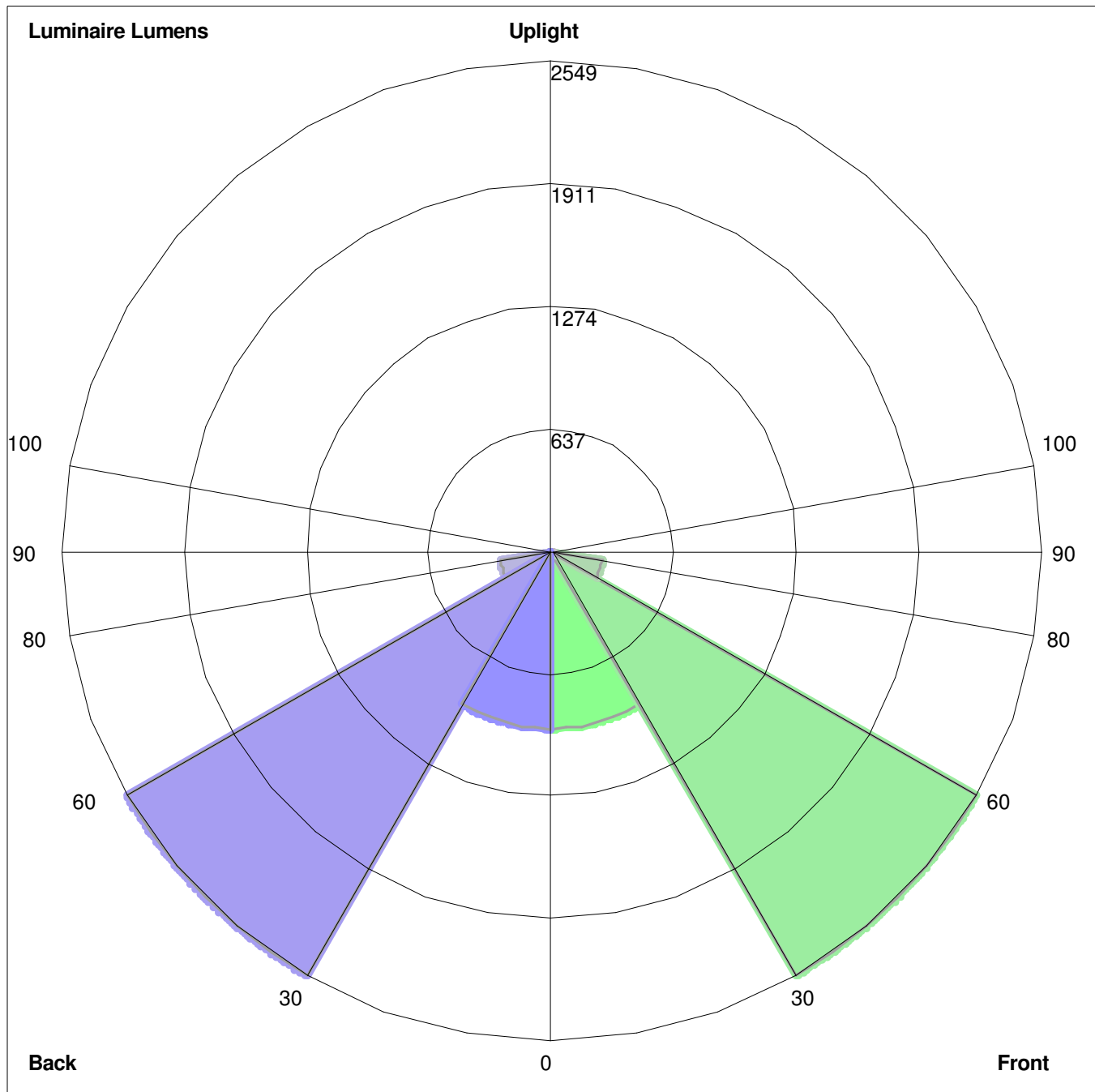


Maximum Candela = 3138.762 Located At Horizontal Angle = 45, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=922.5, Medium=2548.6, High=269.6, Very High=7.4  
Back: Low=922.5, Medium=2548.6, High=269.6, Very High=7.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G0