



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L65-740-TFL-XX-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] ATAL009393-R2  
[TESTLAB] ATAL-LABS  
[ISSUE DATE] 2023-11-06  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VG1-L65-740-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	8018
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	116
Total Luminaire Watts	69
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	3357.337
Maximum Candela Angle	45H 45V
Maximum Candela (<90 Degrees Vertical)	3357.337
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	57.926 (0.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L65-740-TFL-XX-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	986.8	N.A.	12.3
FM - Front-Medium (30-60)	2726.0	N.A.	34.0
FH - Front-High (60-80)	288.3	N.A.	3.6
FVH - Front-Very High (80-90)	8.0	N.A.	0.1
BL - Back-Low (0-30)	986.8	N.A.	12.3
BM - Back-Medium (30-60)	2726.0	N.A.	34.0
BH - Back-High (60-80)	288.3	N.A.	3.6
BVH - Back-Very High (80-90)	8.0	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	8018.2	N.A.	100.0
BUG Rating	B3-U0-G0		

**IES ROAD REPORT**  
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**CANDELA TABULATION**

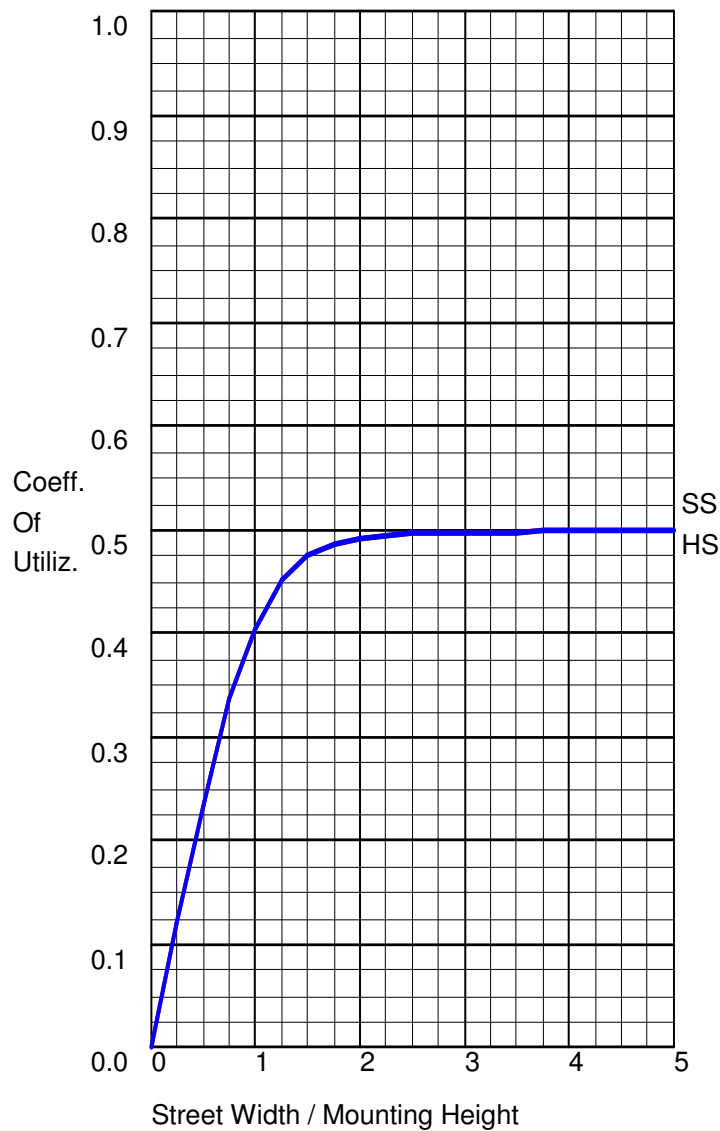
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574
2.5	2243.443	2244.226	2246.574	2246.574	2244.226	2247.357	2247.357	2246.574	2246.574	2245.792
5.0	2242.660	2241.095	2240.312	2241.095	2238.747	2241.878	2244.226	2244.226	2245.009	2242.660
7.5	2240.312	2237.181	2235.615	2235.615	2236.398	2239.529	2244.226	2245.792	2247.357	2244.226
10.0	2240.312	2235.615	2231.702	2234.833	2238.747	2243.443	2250.488	2253.619	2256.750	2253.619
12.5	2244.226	2241.095	2236.398	2241.095	2249.705	2255.185	2263.795	2268.492	2272.406	2270.840
15.0	2261.447	2259.099	2255.185	2261.447	2273.189	2279.451	2288.062	2295.107	2299.803	2298.238
17.5	2281.799	2281.017	2281.017	2289.627	2305.283	2314.676	2322.504	2331.897	2336.594	2336.594
20.0	2297.455	2299.020	2303.717	2317.024	2338.159	2354.598	2365.557	2377.298	2384.343	2385.126
22.5	2298.238	2302.152	2314.676	2337.377	2366.339	2391.388	2410.175	2424.265	2437.572	2439.138
25.0	2282.582	2289.627	2313.893	2350.684	2391.388	2428.179	2458.707	2477.494	2496.281	2498.629
27.5	2259.099	2273.189	2308.414	2359.294	2418.786	2468.883	2513.502	2543.247	2568.296	2572.210
30.0	2249.705	2269.275	2314.676	2376.516	2454.011	2522.112	2580.821	2627.787	2663.012	2671.623
32.5	2263.795	2286.496	2338.159	2408.609	2502.543	2591.780	2669.275	2733.463	2778.081	2792.954
35.0	2288.062	2311.545	2367.122	2450.097	2558.903	2669.275	2766.339	2850.097	2907.239	2926.809
37.5	2308.414	2331.114	2391.388	2489.236	2617.611	2744.421	2857.924	2961.251	3035.615	3059.881
40.0	2315.459	2339.725	2406.261	2518.198	2667.709	2811.740	2938.550	3053.619	3151.466	3194.519
42.5	2331.114	2357.729	2431.310	2551.858	2705.283	2849.314	2981.603	3117.807	3246.182	3304.108
45.0	2358.512	2389.040	2472.797	2593.345	2727.200	2839.138	2947.161	3112.327	3284.539	3357.337
47.5	2355.381	2388.257	2475.928	2586.300	2681.016	2750.684	2839.138	3022.308	3239.137	3344.813
50.0	2212.915	2250.488	2348.336	2450.879	2524.461	2570.645	2666.926	2875.928	3103.717	3214.871
52.5	1901.369	1942.073	2042.269	2162.817	2237.964	2312.328	2443.052	2654.402	2836.789	2904.108
55.0	1488.062	1533.463	1637.573	1765.948	1858.316	1968.688	2114.285	2307.631	2407.827	2420.351
57.5	1064.579	1103.718	1206.262	1352.641	1448.923	1564.774	1709.588	1853.619	1883.365	1884.931
60.0	646.575	673.190	756.164	906.458	1017.612	1131.898	1247.749	1344.031	1350.293	1354.207
62.5	359.295	375.734	432.094	516.634	612.133	705.283	788.258	844.618	846.184	851.663
65.0	233.268	238.747	264.579	306.066	352.250	407.045	448.532	480.626	484.540	500.978
67.5	166.732	170.646	183.953	206.654	230.920	259.100	284.149	302.935	307.632	314.677
70.0	126.027	128.376	136.986	151.076	165.949	181.605	196.477	208.219	212.133	216.047
72.5	97.065	98.630	104.892	114.286	122.896	133.855	142.466	150.293	153.425	156.556
75.0	72.798	75.147	79.061	85.323	90.802	98.630	104.110	109.589	111.937	114.286
77.5	52.446	54.012	57.143	61.840	65.753	71.233	74.364	78.278	80.626	83.757
80.0	32.877	34.442	37.573	40.704	43.836	46.967	48.532	52.446	55.577	57.926
82.5	15.656	17.221	20.352	23.483	25.832	26.614	27.397	28.963	32.094	36.008
85.0	5.479	6.262	7.828	10.176	10.959	10.959	10.176	10.176	11.742	14.090
87.5	1.566	1.566	1.566	1.566	1.566	1.566	1.566	1.566	1.566	2.348
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	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574	2246.574
2.5	2248.140	2252.054	2248.923	2241.878	2238.747	2239.529	2243.443	2244.226	2244.226
5.0	2244.226	2245.792	2242.660	2237.964	2237.181	2237.181	2240.312	2240.312	2240.312
7.5	2245.009	2243.443	2239.529	2237.181	2237.181	2235.615	2237.181	2235.615	2235.615
10.0	2252.054	2246.574	2241.878	2240.312	2240.312	2237.181	2234.833	2231.702	2231.702
12.5	2266.144	2258.316	2252.837	2252.054	2250.488	2245.792	2238.747	2234.833	2233.267
15.0	2290.410	2281.017	2277.103	2275.537	2273.189	2267.709	2255.968	2250.488	2247.357
17.5	2326.418	2314.676	2311.545	2309.979	2306.065	2296.672	2277.885	2270.058	2266.144
20.0	2374.167	2356.946	2351.467	2347.553	2339.725	2323.287	2297.455	2281.799	2277.103
22.5	2423.482	2403.130	2392.171	2383.561	2369.471	2342.856	2307.631	2281.799	2273.189
25.0	2480.625	2457.142	2438.355	2421.917	2396.085	2355.381	2307.631	2269.275	2255.968
27.5	2553.423	2525.243	2496.281	2464.970	2422.699	2365.557	2303.717	2255.185	2235.615

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<b>30.0</b>	2651.271	2614.480	2572.210	2522.112	2459.490	2385.126	2313.110	2257.533	2234.050
<b>32.5</b>	2774.167	2727.200	2668.492	2595.694	2509.588	2417.220	2335.028	2275.537	2250.488
<b>35.0</b>	2906.457	2849.314	2770.253	2674.754	2564.382	2453.228	2361.643	2300.586	2275.537
<b>37.5</b>	3033.267	2962.817	2863.404	2749.118	2619.177	2489.236	2385.909	2319.373	2295.107
<b>40.0</b>	3153.815	3059.881	2946.378	2814.089	2664.578	2516.633	2399.999	2328.766	2302.152
<b>42.5</b>	3253.227	3125.635	2987.866	2848.531	2698.237	2543.247	2414.872	2335.811	2305.283
<b>45.0</b>	3290.018	3117.807	2949.509	2826.613	2700.586	2551.858	2413.306	2319.373	2281.799
<b>47.5</b>	3241.486	3026.222	2831.310	2710.762	2621.525	2491.584	2357.729	2250.488	2209.001
<b>50.0</b>	3102.934	2872.014	2641.877	2506.457	2440.703	2328.766	2205.870	2086.105	2040.704
<b>52.5</b>	2842.269	2630.136	2401.564	2236.398	2155.772	2055.576	1949.118	1837.964	1800.391
<b>55.0</b>	2408.609	2281.799	2074.363	1898.238	1810.567	1729.158	1645.400	1551.467	1506.066
<b>57.5</b>	1884.148	1823.874	1669.667	1517.808	1442.661	1380.821	1321.330	1254.011	1225.831
<b>60.0</b>	1356.555	1317.416	1216.438	1099.021	1044.227	1000.391	962.818	914.285	895.499
<b>62.5</b>	866.536	840.704	763.209	686.497	649.706	621.526	602.739	573.777	564.383
<b>65.0</b>	493.933	477.495	437.573	401.565	378.082	353.816	342.074	321.722	318.591
<b>67.5</b>	309.198	298.239	281.017	259.100	241.879	226.223	209.785	197.260	195.695
<b>70.0</b>	212.133	205.088	194.912	180.822	169.080	154.207	140.117	130.724	129.941
<b>72.5</b>	153.425	148.728	141.683	131.507	121.331	108.806	97.847	90.802	90.020
<b>75.0</b>	112.720	109.589	104.892	95.499	86.888	76.712	68.102	62.622	61.840
<b>77.5</b>	82.192	79.843	76.712	68.885	61.057	53.229	45.401	41.487	41.487
<b>80.0</b>	57.143	55.577	53.229	47.749	40.704	33.659	27.397	25.049	24.266
<b>82.5</b>	36.008	34.442	33.659	28.180	23.483	18.004	14.090	11.742	11.742
<b>85.0</b>	14.090	13.307	14.090	12.524	10.176	7.045	6.262	4.697	4.697
<b>87.5</b>	2.348	1.566	1.566	1.566	1.566	1.566	1.566	1.566	1.566
<b>90.0</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

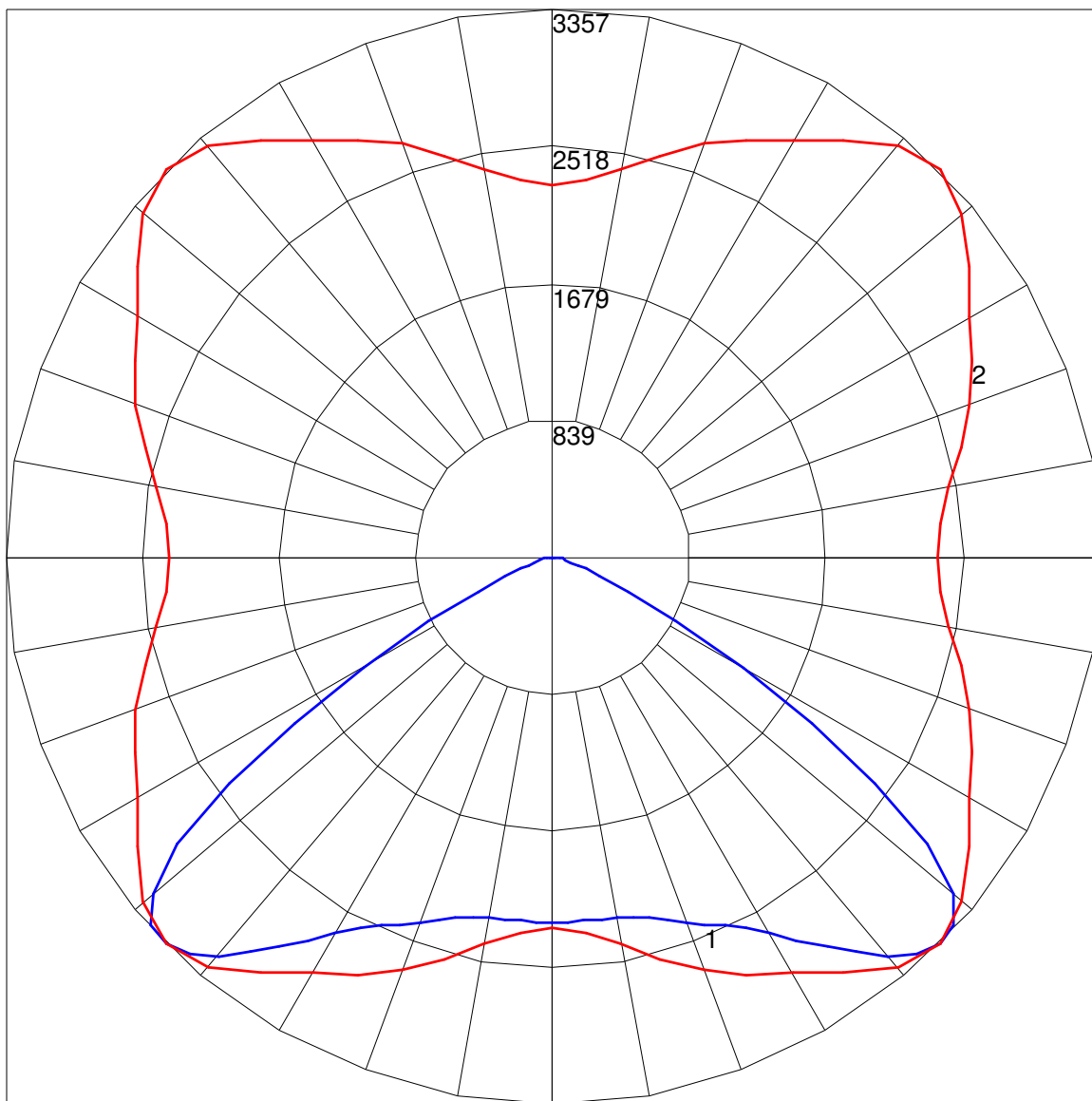
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

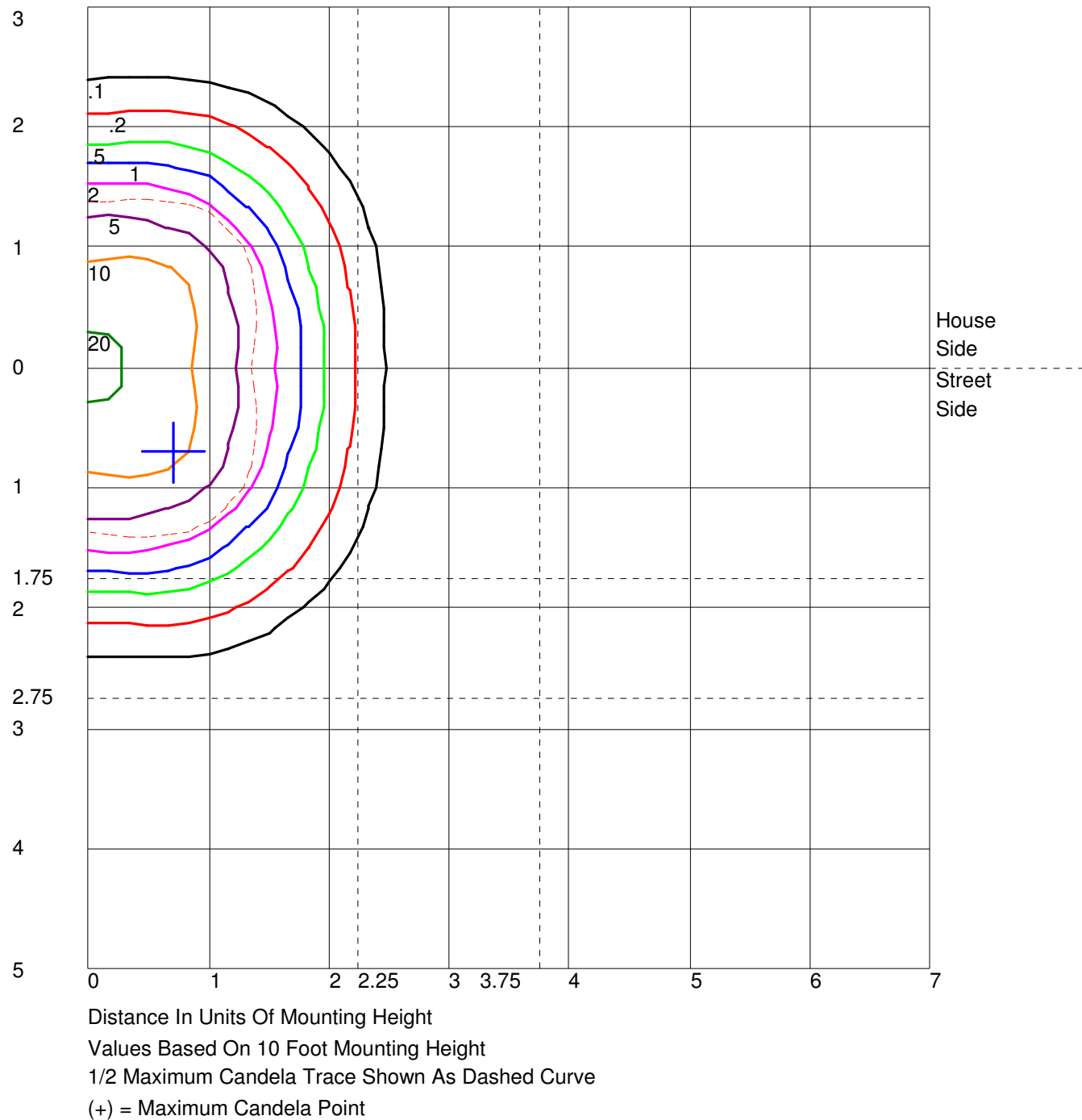
	Lumens	Percent Of Luminaire
Downward Street Side	4009.1	50.0
Downward House Side	4009.1	50.0
Downward Total	8018.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8018.2	100.0

POLAR GRAPH

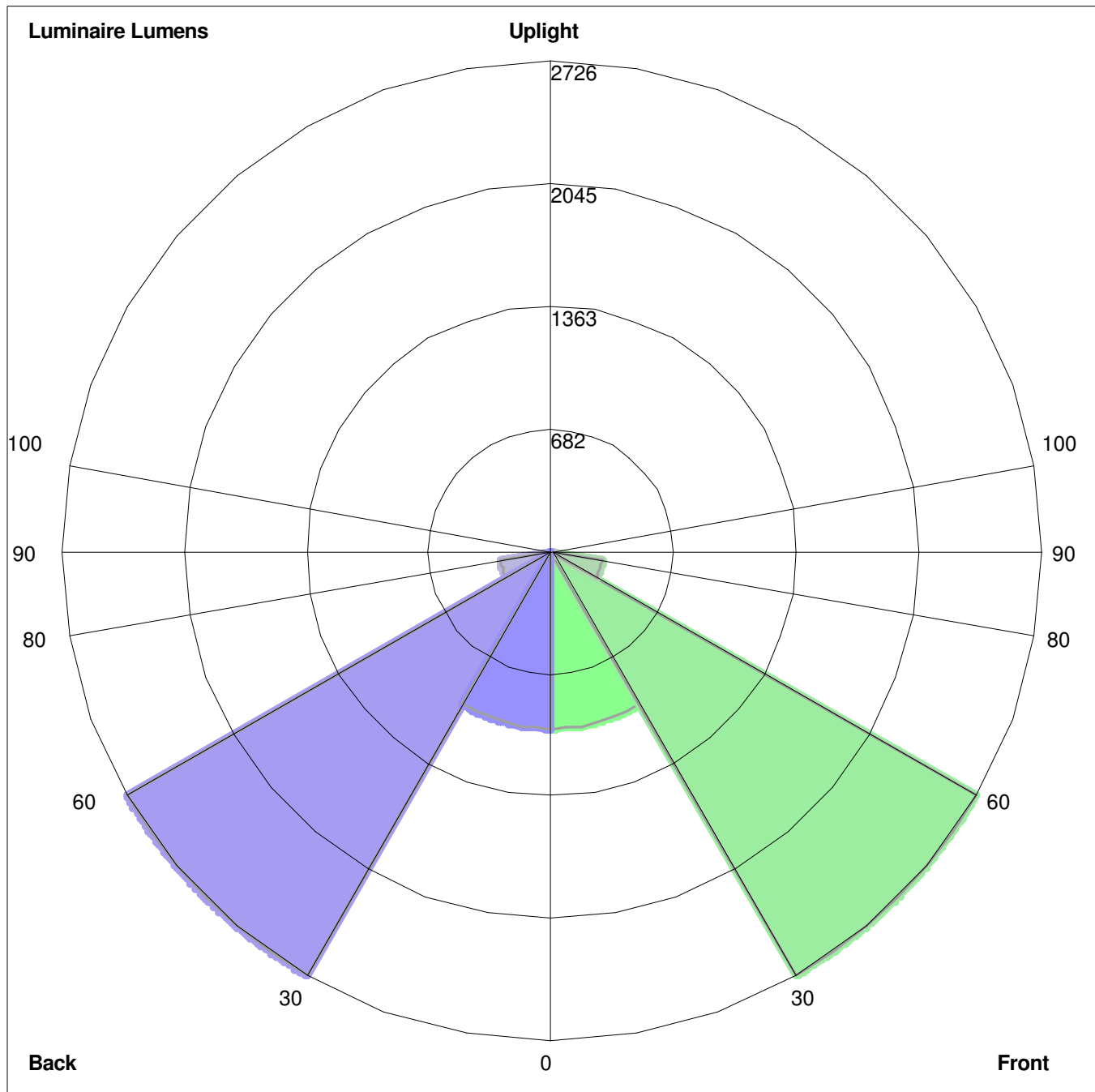


Maximum Candela = 3357.337 Located At Horizontal Angle = 45, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=986.8, Medium= 2726.0, High=288.3, Very High=8.0  
Back: Low=986.8, Medium= 2726.0, High=288.3, Very High=8.0  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G0