



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L30-740-T5-XX-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ATAL009389-R2
[TESTLAB] ATAL-LABS
[ISSUEDATE] 2023-11-06
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VG1-L30-740-T5-xx-xxx-DIM-UNV_
[LUMINAIRE] 13.5 x 16 INCH DIE CAST LED LUMINAIRE
[MORE] WITH TYPE V DISTRIBUTION AND CLEAR GLASS
[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	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3566
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	36
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1075.504
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	1075.504
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	372.532 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L30-740-T5-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	201.6	N.A.	5.7
FM - Front-Medium (30-60)	813.4	N.A.	22.8
FH - Front-High (60-80)	762.6	N.A.	21.4
FVH - Front-Very High (80-90)	21.0	N.A.	0.6
BL - Back-Low (0-30)	194.9	N.A.	5.5
BM - Back-Medium (30-60)	762.5	N.A.	21.4
BH - Back-High (60-80)	778.6	N.A.	21.8
BVH - Back-Very High (80-90)	31.6	N.A.	0.9
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3566.2	N.A.	100.0
BUG Rating	B2-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<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	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469
2.5	454.749	455.142	455.929	456.322	457.109	456.715	456.322	456.322	456.322	457.109
5.0	448.061	448.454	449.241	450.028	451.208	450.815	450.421	450.421	450.028	450.815
7.5	444.914	445.701	446.488	447.274	447.668	447.668	447.274	447.274	446.881	447.274
10.0	445.701	446.094	447.668	448.061	447.274	447.274	447.274	446.488	445.701	445.307
12.5	448.848	449.241	451.208	451.995	451.995	451.995	451.208	449.635	447.668	446.488
15.0	451.995	452.782	454.749	455.142	456.715	458.682	458.682	457.502	455.142	453.175
17.5	457.896	458.289	459.862	459.469	461.436	464.583	467.337	467.337	464.976	464.190
20.0	472.451	471.271	471.664	470.090	469.697	472.057	475.991	477.958	476.778	477.958
22.5	491.333	487.793	487.006	483.859	482.285	483.465	487.006	488.973	492.120	495.267
25.0	505.888	504.708	503.921	500.381	497.627	496.840	498.020	500.774	509.035	511.395
27.5	525.164	524.770	523.984	519.656	515.723	513.362	512.182	514.542	521.230	523.197
30.0	549.553	549.160	547.586	542.079	536.178	531.064	529.098	531.064	532.638	534.605
32.5	580.237	579.450	574.730	568.436	560.568	552.700	548.373	545.620	545.620	545.620
35.0	616.035	615.248	609.741	600.693	590.858	579.450	571.189	567.256	563.322	560.175
37.5	649.866	649.079	643.178	634.917	623.116	608.954	597.939	591.252	583.778	579.450
40.0	682.123	680.943	675.042	666.388	654.980	639.638	627.049	618.395	609.347	604.627
42.5	713.200	710.840	704.152	694.711	684.876	669.928	657.733	648.292	640.031	634.524
45.0	736.803	735.229	729.722	721.854	710.840	695.891	686.057	678.189	672.288	667.568
47.5	760.406	757.652	754.898	747.817	737.196	720.674	711.233	706.119	703.759	702.579
50.0	780.468	779.288	779.681	775.748	765.913	749.784	741.523	737.983	737.196	737.590
52.5	785.975	787.549	794.630	799.744	796.203	783.615	776.534	774.961	772.994	772.994
55.0	783.615	787.156	800.924	817.839	824.527	818.626	814.692	815.479	813.119	811.545
57.5	795.810	797.383	809.578	831.214	845.769	850.097	853.244	861.111	860.324	856.391
60.0	816.266	817.446	830.427	857.177	868.192	877.240	889.828	908.710	911.857	907.137
62.5	818.626	822.560	837.902	876.846	897.696	917.758	932.313	962.210	976.372	977.159
65.0	837.115	840.262	854.424	891.402	910.284	926.412	947.655	1004.695	1042.460	1047.967
67.5	817.053	827.674	850.490	895.729	918.151	935.460	953.949	1021.611	1063.702	1074.324
70.0	767.487	775.748	813.905	868.192	890.221	898.876	924.052	1001.155	1044.427	1042.853
72.5	687.630	708.479	761.586	844.196	885.107	867.799	864.652	861.898	898.089	878.813
75.0	426.425	465.370	514.936	619.575	643.965	673.468	736.803	734.049	616.822	564.895
77.5	133.750	142.011	156.566	197.084	245.470	359.157	444.127	484.646	475.991	483.465
80.0	52.713	55.467	62.154	80.250	93.625	129.816	195.510	248.223	274.187	278.514
82.5	17.702	17.702	20.062	27.537	33.044	48.779	71.989	92.051	106.606	115.654
85.0	5.901	5.507	6.294	7.868	9.048	13.768	19.669	24.390	27.537	29.110
87.5	0.787	0.787	0.787	0.787	0.787	0.787	1.180	1.967	2.360	2.360
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>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>	<u>95</u>
0.0	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469
2.5	458.289	460.649	460.256	458.289	456.715	456.715	457.896	457.896	458.289	457.502
5.0	452.388	453.568	453.175	451.601	450.028	450.028	450.815	450.815	450.421	450.028
7.5	448.454	448.454	447.274	446.881	444.914	445.307	445.701	445.307	444.127	444.127
10.0	446.094	445.307	443.734	443.340	442.554	443.734	443.734	444.127	442.947	442.554
12.5	447.274	446.094	445.307	445.701	445.307	446.094	444.914	444.127	442.947	442.160
15.0	452.782	452.782	451.208	450.421	449.241	447.274	444.127	442.947	442.160	441.374
17.5	462.223	461.436	459.076	456.322	452.782	450.028	447.274	446.488	445.307	445.307
20.0	475.204	472.057	468.910	464.190	460.649	458.682	456.715	456.322	454.749	454.749
22.5	491.333	483.465	479.138	475.204	472.057	471.271	471.271	470.484	469.304	468.517
25.0	507.855	495.660	488.579	487.399	486.612	486.612	486.612	485.826	486.219	484.252
27.5	520.050	508.642	501.561	502.348	503.921	503.528	504.315	503.921	504.315	502.348

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CANDELA TABULATION - (Cont.)

30.0	531.458	523.984	519.656	519.263	522.410	523.984	524.770	525.557	524.377	523.197
32.5	542.866	535.785	536.178	537.752	542.473	544.833	547.586	548.373	548.373	546.800
35.0	557.814	553.094	556.634	560.568	567.649	572.369	576.697	579.844	579.057	577.877
37.5	578.664	576.303	580.630	588.105	596.759	604.233	608.561	610.921	612.888	610.921
40.0	603.447	602.266	608.954	617.215	628.230	636.491	641.211	644.752	647.112	645.145
42.5	633.344	632.557	640.818	648.685	660.093	666.388	671.895	675.435	677.009	675.435
45.0	665.601	664.421	671.502	677.009	687.237	692.744	698.251	701.398	702.185	700.612
47.5	699.038	695.498	701.005	703.759	711.626	719.101	723.428	725.001	724.608	723.428
50.0	735.623	730.902	734.049	733.656	741.130	748.604	748.604	746.244	745.457	745.457
52.5	773.781	771.420	769.060	768.667	774.961	777.321	770.240	762.373	761.192	762.373
55.0	813.119	814.299	810.365	807.611	809.578	805.644	789.909	774.567	771.814	772.994
57.5	857.177	859.931	851.277	846.556	841.442	825.314	798.170	776.141	773.781	772.600
60.0	905.170	907.924	893.368	881.567	866.619	845.769	813.905	794.630	793.843	790.303
62.5	972.045	971.258	943.328	922.872	898.876	870.552	830.034	806.431	804.858	800.924
65.0	1046.394	1026.725	966.537	932.707	911.071	881.960	837.902	817.446	811.939	809.185
67.5	1075.504	1049.147	980.699	940.574	930.740	902.416	865.438	841.442	837.508	835.148
70.0	1059.375	1035.379	963.784	908.710	901.236	872.519	822.953	770.634	763.553	759.619
72.5	907.137	883.927	871.339	871.339	899.269	887.468	827.280	741.523	738.376	739.163
75.0	599.513	711.626	776.141	735.229	722.248	679.763	630.590	547.980	543.653	546.800
77.5	479.925	495.267	487.399	407.149	340.275	249.797	216.360	182.529	179.775	180.562
80.0	280.087	265.139	235.635	153.025	116.441	93.625	83.790	74.349	74.742	73.956
82.5	112.507	104.246	90.478	63.334	48.779	36.978	31.864	28.323	28.717	28.323
85.0	30.290	30.290	26.750	18.096	13.768	9.835	8.654	7.868	8.261	8.654
87.5	1.967	2.754	1.967	1.967	1.574	1.574	1.180	1.180	1.180	1.180
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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469	459.469
2.5	457.502	457.109	456.715	456.715	457.109	457.109	457.502	458.289	458.682	458.682
5.0	449.635	449.635	449.635	449.635	449.635	450.028	450.421	451.601	452.388	451.995
7.5	443.734	444.127	444.521	444.521	443.734	443.734	444.521	445.307	446.094	446.094
10.0	442.160	442.160	442.160	440.980	439.013	438.620	440.193	440.980	441.374	440.980
12.5	442.947	443.734	444.127	442.947	439.800	438.227	439.407	439.800	440.193	440.193
15.0	442.554	443.734	445.701	445.307	443.734	442.160	443.340	442.947	443.340	443.734
17.5	444.914	445.307	446.881	447.668	447.274	448.454	450.028	450.028	449.635	450.421
20.0	453.175	453.175	452.782	452.782	453.175	455.929	457.502	460.256	458.682	457.896
22.5	466.550	464.976	462.616	461.829	462.616	465.370	468.123	472.844	470.484	466.943
25.0	481.105	478.745	474.811	474.024	472.844	474.811	480.712	487.006	483.072	476.778
27.5	498.414	494.873	490.153	488.973	485.039	486.219	493.693	498.020	493.300	486.612
30.0	518.870	514.149	507.855	505.101	499.201	501.561	504.315	508.248	502.348	499.201
32.5	541.686	534.998	526.344	520.837	513.756	512.969	512.969	513.756	509.429	505.888
35.0	569.616	561.355	549.947	540.899	530.278	525.951	523.197	522.410	518.870	516.903
37.5	601.480	591.252	578.664	566.469	552.700	545.620	539.719	536.965	533.818	535.785
40.0	634.524	623.116	608.561	595.186	578.664	569.222	561.748	557.814	553.881	556.634
42.5	665.207	653.799	640.031	625.476	608.561	596.759	587.318	582.991	579.844	582.204
45.0	690.384	679.763	665.994	653.406	638.851	625.869	614.461	609.741	607.380	610.134
47.5	713.987	705.332	691.957	680.156	667.961	655.373	643.965	640.031	637.277	640.424
50.0	737.983	733.656	721.461	710.053	698.645	687.237	677.009	674.255	671.502	671.895
52.5	758.439	759.226	752.931	743.490	731.295	722.248	712.413	710.446	708.086	706.906
55.0	776.141	785.189	786.369	781.255	771.027	761.586	752.538	746.637	747.424	744.670
57.5	781.255	803.284	817.446	819.806	811.545	805.644	796.990	787.942	788.729	787.156
60.0	795.417	820.200	843.802	855.604	853.637	853.244	847.736	835.148	838.688	834.755
62.5	808.398	839.869	874.093	894.942	899.663	909.497	913.824	902.810	904.383	895.729
65.0	814.299	843.802	879.207	904.383	922.085	971.258	994.861	986.600	985.026	965.357

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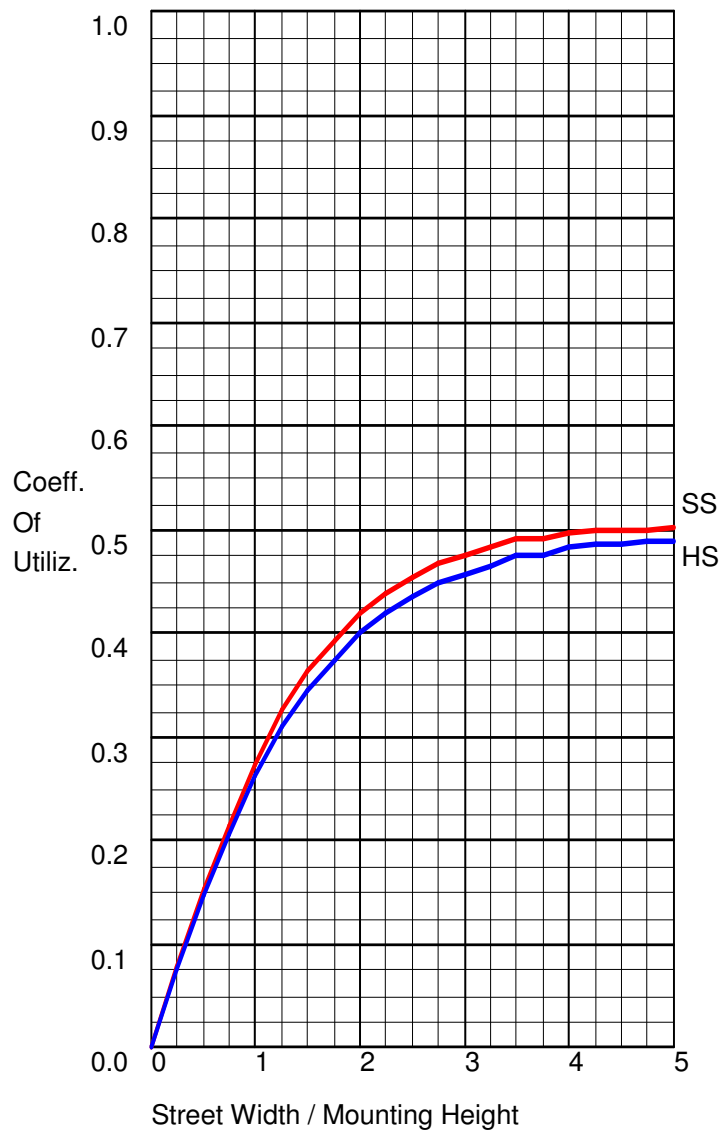
CANDELA TABULATION - (Cont.)

67.5	843.802	869.372	898.089	915.398	929.560	995.648	1037.346	1042.460	1037.346	1003.122
70.0	783.222	835.935	872.913	892.188	928.379	1023.184	1066.063	1066.456	1068.816	1034.592
72.5	789.909	859.931	868.585	837.902	859.538	920.512	979.126	992.500	1007.842	959.063
75.0	627.443	728.542	767.093	795.810	828.067	760.406	690.384	708.873	712.413	743.097
77.5	241.143	314.705	415.804	483.072	547.193	590.858	531.064	487.399	522.410	595.972
80.0	90.084	106.213	129.422	188.430	278.120	341.061	350.896	372.532	361.517	368.205
82.5	35.011	42.485	56.647	74.349	101.886	138.077	165.613	171.514	162.466	156.566
85.0	9.835	12.195	17.309	23.603	31.864	44.452	58.220	61.761	61.367	56.253
87.5	1.574	1.574	2.754	3.540	6.294	6.294	7.868	7.474	7.474	7.474
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</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	459.469	459.469	459.469	459.469	459.469	459.469	459.469
2.5	458.289	457.896	458.289	457.109	457.896	459.469	459.862
5.0	451.601	450.421	450.815	450.028	450.421	451.601	451.208
7.5	445.307	444.521	444.127	443.340	443.340	444.127	443.734
10.0	440.587	439.800	439.800	439.800	439.407	439.800	440.587
12.5	440.193	440.193	440.193	439.800	439.407	439.407	439.800
15.0	444.127	443.734	442.554	440.980	439.407	439.013	439.013
17.5	450.028	447.274	443.734	440.587	439.800	439.800	440.587
20.0	456.715	451.601	446.488	444.127	445.701	445.701	446.881
22.5	463.796	459.076	453.962	453.175	455.929	457.109	457.896
25.0	470.484	467.337	464.190	464.976	468.123	470.090	472.057
27.5	478.745	478.351	477.171	478.351	481.892	483.072	485.039
30.0	492.513	490.940	491.726	494.480	498.807	499.594	501.954
32.5	502.348	503.134	506.675	511.002	516.116	518.083	522.017
35.0	515.723	519.263	525.951	532.638	539.325	542.866	547.586
37.5	535.392	541.686	550.340	558.601	567.649	572.763	577.483
40.0	559.388	567.256	575.910	588.498	599.513	605.807	610.527
42.5	587.318	595.972	607.380	619.575	632.163	638.851	643.571
45.0	618.002	625.869	635.704	647.505	657.733	664.814	667.568
47.5	647.112	653.406	663.241	673.075	682.123	686.057	688.024
50.0	676.615	680.549	691.171	699.038	706.512	709.266	712.020
52.5	707.299	712.807	723.428	728.935	730.902	730.902	733.262
55.0	745.064	749.784	755.685	754.505	750.178	745.457	744.670
57.5	783.222	784.402	785.975	780.861	764.339	751.358	748.604
60.0	825.314	824.527	818.233	803.678	776.534	760.406	758.832
62.5	876.846	870.159	852.850	830.821	792.663	775.748	771.814
65.0	920.512	894.549	868.192	839.082	798.170	787.942	784.402
67.5	935.854	904.383	892.582	876.846	841.442	832.394	828.854
70.0	955.916	904.777	880.780	852.457	812.332	774.961	771.027
72.5	891.008	847.736	847.343	844.983	798.957	758.832	752.145
75.0	840.262	821.773	813.905	756.472	693.137	632.163	620.362
77.5	601.480	536.965	498.414	455.142	370.565	305.657	284.415
80.0	338.701	239.569	168.760	144.371	126.669	112.114	110.933
82.5	131.389	92.051	70.415	61.761	53.106	45.239	45.632
85.0	44.845	30.684	23.603	19.276	16.129	13.375	12.982
87.5	5.901	4.327	3.147	2.754	2.754	2.360	2.360
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

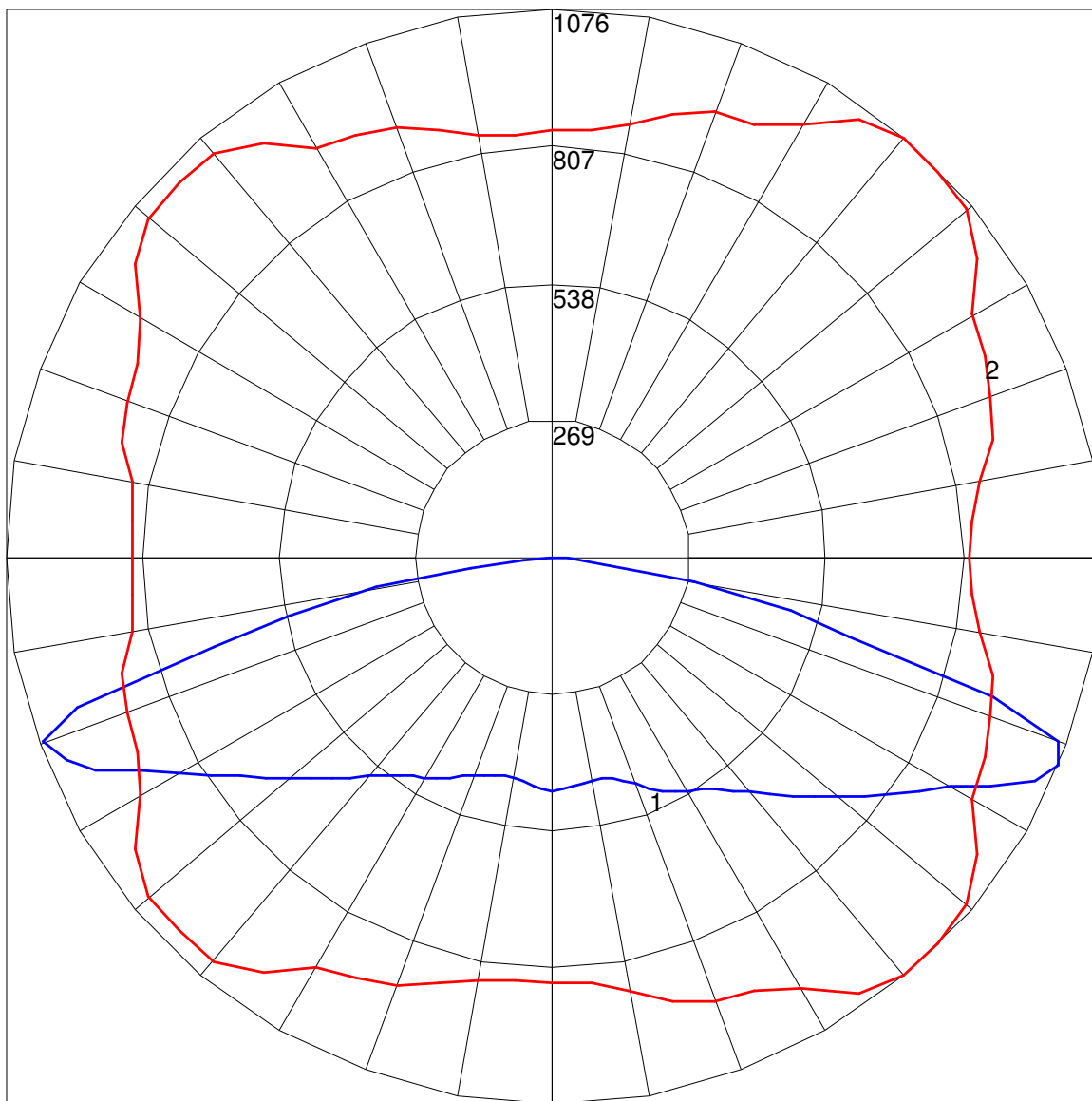
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

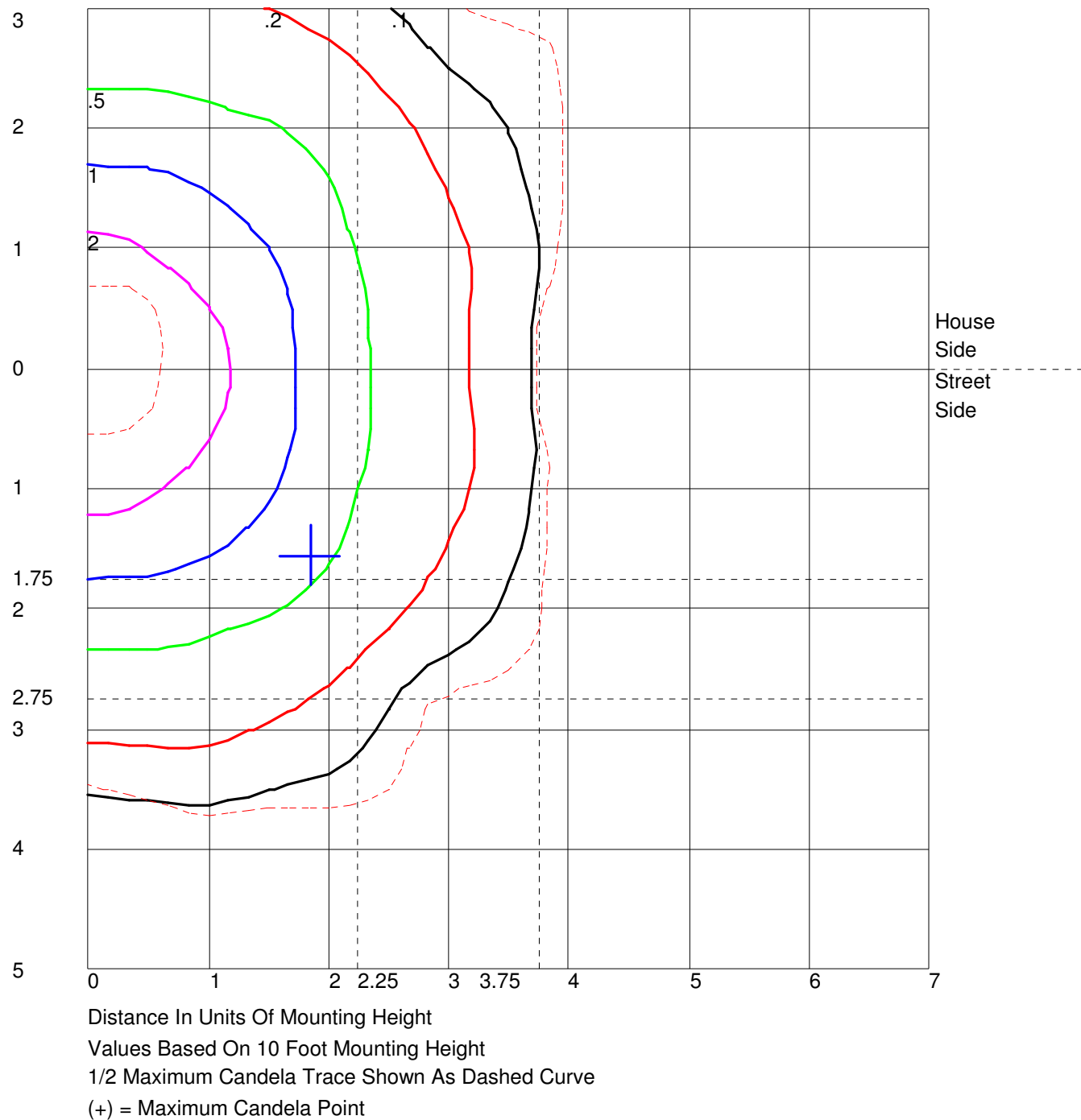
	Lumens	Percent Of Luminaire
Downward Street Side	1798.7	50.4
Downward House Side	1767.5	49.6
Downward Total	3566.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3566.2	100.0

POLAR GRAPH

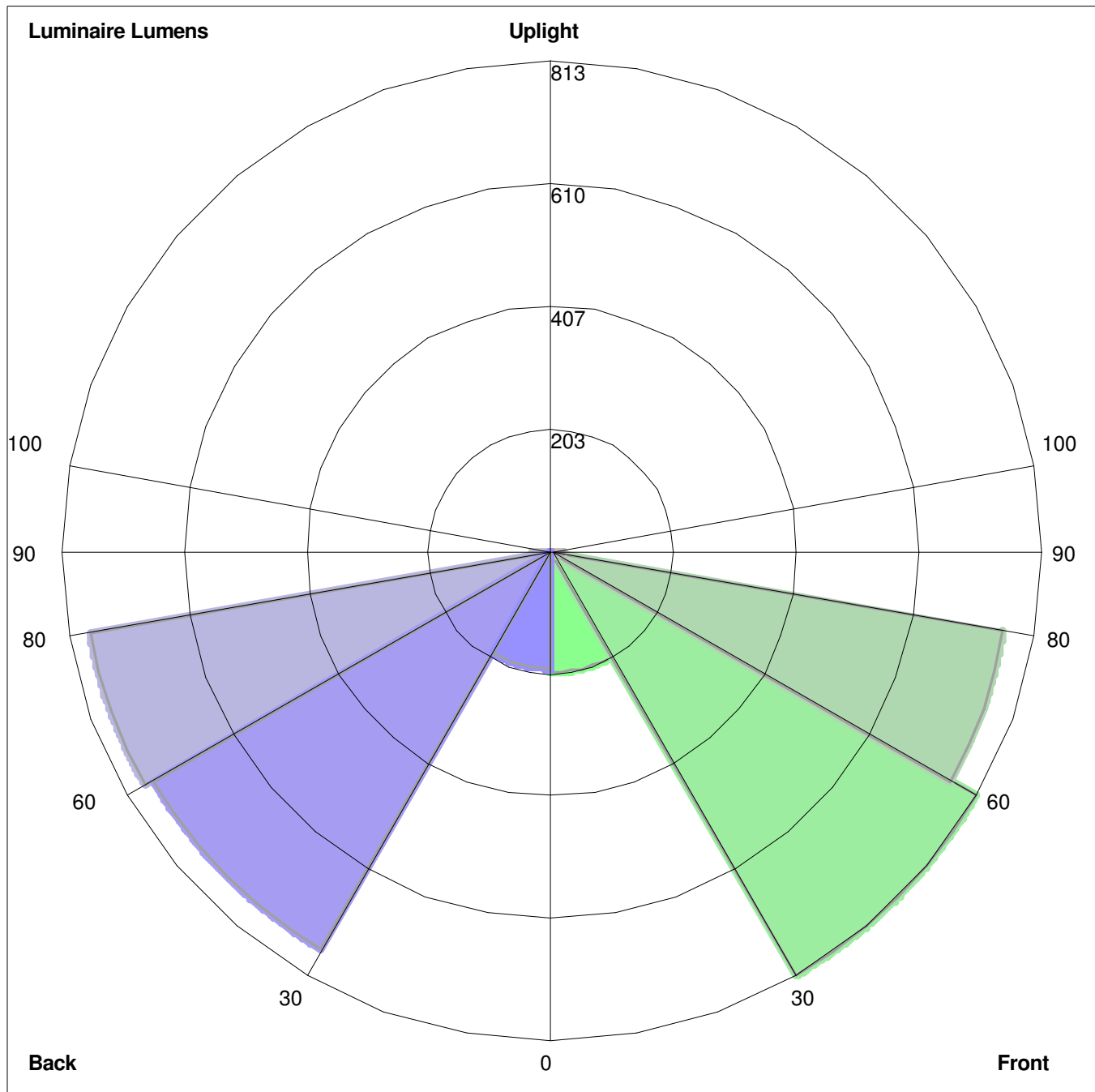


Maximum Candela = 1075.504 Located At Horizontal Angle = 50, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=201.6, Medium=813.4, High=762.6, Very High=21.0
Back: Low=194.9, Medium=762.5, High=778.6, Very High=31.6
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1