



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L30-730-T5-XX-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ATAL009389-R2
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-11-06
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VG1-L30-730-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	3387
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	94
Total Luminaire Watts	36
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1021.518
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	1021.518
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	353.832 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L30-730-T5-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	191.5	N.A.	5.7
FM - Front-Medium (30-60)	772.6	N.A.	22.8
FH - Front-High (60-80)	724.3	N.A.	21.4
FVH - Front-Very High (80-90)	20.0	N.A.	0.6
BL - Back-Low (0-30)	185.1	N.A.	5.5
BM - Back-Medium (30-60)	724.2	N.A.	21.4
BH - Back-High (60-80)	739.5	N.A.	21.8
BVH - Back-Very High (80-90)	30.0	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	3387.2	N.A.	100.0
BUG Rating	B2-U0-G1		

IES ROAD REPORT
PHOTOMETRIC FILENAME : VG1-L30-730-T5-XX-XXX-DIM-UNV_.IES

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	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405
2.5	431.922	432.295	433.043	433.416	434.164	433.790	433.416	433.416	433.416	434.164
5.0	425.570	425.944	426.691	427.438	428.559	428.185	427.812	427.812	427.438	428.185
7.5	422.581	423.328	424.075	424.823	425.196	425.196	424.823	424.823	424.449	424.823
10.0	423.328	423.702	425.196	425.570	424.823	424.823	424.823	424.075	423.328	422.955
12.5	426.317	426.691	428.559	429.306	429.306	429.306	428.559	427.065	425.196	424.075
15.0	429.306	430.054	431.922	432.295	433.790	435.658	435.658	434.537	432.295	430.427
17.5	434.911	435.285	436.779	436.405	438.274	441.263	443.878	443.878	441.636	440.889
20.0	448.735	447.614	447.988	446.494	446.120	448.362	452.098	453.966	452.845	453.966
22.5	466.670	463.307	462.560	459.571	458.076	459.197	462.560	464.428	467.417	470.406
25.0	480.494	479.373	478.626	475.263	472.648	471.901	473.022	475.637	483.483	485.725
27.5	498.802	498.429	497.682	493.572	489.835	487.593	486.472	488.714	495.066	496.934
30.0	521.968	521.594	520.100	514.869	509.264	504.407	502.539	504.407	505.901	507.770
32.5	551.111	550.364	545.880	539.902	532.430	524.957	520.847	518.231	518.231	518.231
35.0	585.112	584.365	579.134	570.540	561.199	550.364	542.518	538.781	535.045	532.056
37.5	617.245	616.497	610.893	603.047	591.838	578.387	567.925	561.573	554.474	550.364
40.0	647.883	646.762	641.157	632.937	622.102	607.530	595.574	587.354	578.760	574.277
42.5	677.400	675.158	668.806	659.839	650.498	636.300	624.717	615.750	607.904	602.673
45.0	699.818	698.323	693.093	685.620	675.158	660.960	651.619	644.146	638.542	634.058
47.5	722.236	719.621	717.005	710.280	700.192	684.499	675.532	670.674	668.433	667.312
50.0	741.291	740.171	740.544	736.808	727.467	712.148	704.302	700.939	700.192	700.565
52.5	746.522	748.017	754.742	759.600	756.237	744.280	737.555	736.061	734.192	734.192
55.0	744.280	747.643	760.720	776.787	783.139	777.534	773.798	774.545	772.303	770.809
57.5	755.863	757.358	768.940	789.490	803.315	807.425	810.414	817.887	817.139	813.403
60.0	775.292	776.413	788.743	814.150	824.612	833.206	845.162	863.096	866.085	861.602
62.5	777.534	781.270	795.842	832.832	852.635	871.690	885.514	913.911	927.362	928.109
65.0	795.095	798.084	811.535	846.656	864.591	879.910	900.086	954.263	990.132	995.363
67.5	776.039	786.128	807.798	850.766	872.064	888.504	906.064	970.330	1010.308	1020.397
70.0	728.961	736.808	773.050	824.612	845.536	853.755	877.668	950.901	992.000	990.506
72.5	653.114	672.916	723.357	801.820	840.678	824.238	821.249	818.634	853.008	834.700
75.0	405.020	442.010	489.088	588.475	611.640	639.663	699.818	697.203	585.859	536.540
77.5	127.036	134.882	148.707	187.191	233.148	341.129	421.834	460.318	452.098	459.197
80.0	50.067	52.683	59.034	76.221	88.925	123.299	185.696	235.764	260.423	264.533
82.5	16.814	16.814	19.055	26.154	31.385	46.331	68.375	87.431	101.255	109.849
85.0	5.605	5.231	5.978	7.473	8.594	13.077	18.682	23.165	26.154	27.649
87.5	0.747	0.747	0.747	0.747	0.747	0.747	1.121	1.868	2.242	2.242
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	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405
2.5	435.285	437.526	437.153	435.285	433.790	433.790	434.911	434.911	435.285	434.537
5.0	429.680	430.801	430.427	428.933	427.438	427.438	428.185	428.185	427.812	427.438
7.5	425.944	425.944	424.823	424.449	422.581	422.955	423.328	422.955	421.834	421.834
10.0	423.702	422.955	421.460	421.086	420.339	421.460	421.460	421.834	420.713	420.339
12.5	424.823	423.702	422.955	423.328	422.955	423.702	422.581	421.834	420.713	419.965
15.0	430.054	430.054	428.559	427.812	426.691	424.823	421.834	420.713	419.965	419.218
17.5	439.021	438.274	436.032	433.416	430.054	427.438	424.823	424.075	422.955	422.955
20.0	451.351	448.362	445.373	440.889	437.526	435.658	433.790	433.416	431.922	431.922
22.5	466.670	459.197	455.087	451.351	448.362	447.614	447.614	446.867	445.746	444.999
25.0	482.363	470.780	464.054	462.933	462.186	462.186	462.186	461.439	461.813	459.944
27.5	493.945	483.110	476.384	477.132	478.626	478.253	479.000	478.626	479.000	477.132

IES ROAD REPORT
PHOTOMETRIC FILENAME : VG1-L30-730-T5-XX-XXX-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

30.0	504.781	497.682	493.572	493.198	496.187	497.682	498.429	499.176	498.055	496.934
32.5	515.616	508.891	509.264	510.759	515.242	517.484	520.100	520.847	520.847	519.352
35.0	529.814	525.331	528.693	532.430	539.155	543.639	547.749	550.738	549.990	548.869
37.5	549.617	547.375	551.485	558.584	566.804	573.903	578.013	580.255	582.123	580.255
40.0	573.156	572.035	578.387	586.233	596.695	604.541	609.025	612.387	614.629	612.761
42.5	601.552	600.805	608.651	616.124	626.959	632.937	638.168	641.531	643.025	641.531
45.0	632.190	631.069	637.795	643.025	652.740	657.971	663.202	666.191	666.938	665.444
47.5	663.949	660.586	665.817	668.433	675.905	683.004	687.114	688.609	688.235	687.114
50.0	698.697	694.213	697.203	696.829	703.928	711.027	711.027	708.785	708.038	708.038
52.5	734.940	732.698	730.456	730.082	736.061	738.302	731.577	724.104	722.983	724.104
55.0	772.303	773.424	769.688	767.072	768.940	765.204	750.259	735.687	733.071	734.192
57.5	814.150	816.766	808.546	804.062	799.205	783.886	758.105	737.181	734.940	733.819
60.0	859.734	862.349	848.525	837.316	823.117	803.315	773.050	754.742	753.995	750.632
62.5	923.252	922.504	895.976	876.547	853.755	826.854	788.369	765.951	764.457	760.720
65.0	993.869	975.187	918.021	885.888	865.338	837.689	795.842	776.413	771.182	768.567
67.5	1021.518	996.484	931.472	893.361	884.020	857.118	821.997	799.205	795.468	793.227
70.0	1006.198	983.407	915.405	863.096	855.997	828.722	781.644	731.951	725.225	721.489
72.5	861.602	839.557	827.601	827.601	854.129	842.920	785.754	704.302	701.312	702.060
75.0	569.419	675.905	737.181	698.323	685.993	645.641	598.937	520.473	516.363	519.352
77.5	455.834	470.406	462.933	386.712	323.194	237.258	205.499	173.367	170.751	171.498
80.0	266.028	251.830	223.807	145.344	110.596	88.925	79.584	70.617	70.991	70.243
82.5	106.860	99.013	85.936	60.155	46.331	35.122	30.264	26.902	27.275	26.902
85.0	28.770	28.770	25.407	17.187	13.077	9.341	8.220	7.473	7.846	8.220
87.5	1.868	2.615	1.868	1.868	1.495	1.495	1.121	1.121	1.121	1.121
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	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405	436.405
2.5	434.537	434.164	433.790	433.790	434.164	434.164	434.537	435.285	435.658	435.658
5.0	427.065	427.065	427.065	427.065	427.065	427.438	427.812	428.933	429.680	429.306
7.5	421.460	421.834	422.207	422.207	421.460	421.460	422.207	422.955	423.702	423.702
10.0	419.965	419.965	419.965	418.845	416.976	416.603	418.097	418.845	419.218	418.845
12.5	420.713	421.460	421.834	420.713	417.724	416.229	417.350	417.724	418.097	418.097
15.0	420.339	421.460	423.328	422.955	421.460	419.965	421.086	420.713	421.086	421.460
17.5	422.581	422.955	424.449	425.196	424.823	425.944	427.438	427.438	427.065	427.812
20.0	430.427	430.427	430.054	430.054	430.427	433.043	434.537	437.153	435.658	434.911
22.5	443.131	441.636	439.395	438.647	439.395	442.010	444.625	449.109	446.867	443.504
25.0	456.955	454.714	450.977	450.230	449.109	450.977	456.582	462.560	458.824	452.845
27.5	473.395	470.033	465.549	464.428	460.692	461.813	468.912	473.022	468.538	462.186
30.0	492.824	488.341	482.363	479.747	474.143	476.384	479.000	482.736	477.132	474.143
32.5	514.495	508.143	499.923	494.692	487.967	487.220	487.220	487.967	483.857	480.494
35.0	541.023	533.177	522.341	513.748	503.660	499.550	496.934	496.187	492.824	490.956
37.5	571.288	561.573	549.617	538.034	524.957	518.231	512.627	510.011	507.022	508.891
40.0	602.673	591.838	578.013	565.309	549.617	540.650	533.550	529.814	526.078	528.693
42.5	631.816	620.981	607.904	594.079	578.013	566.804	557.837	553.727	550.738	552.979
45.0	655.729	645.641	632.564	620.607	606.783	594.453	583.618	579.134	576.892	579.508
47.5	678.147	669.927	657.224	646.015	634.432	622.476	611.640	607.904	605.288	608.277
50.0	700.939	696.829	685.246	674.411	663.575	652.740	643.025	640.410	637.795	638.168
52.5	720.368	721.115	715.137	706.170	694.587	685.993	676.653	674.784	672.543	671.422
55.0	737.181	745.775	746.896	742.039	732.324	723.357	714.763	709.159	709.906	707.291
57.5	742.039	762.962	776.413	778.655	770.809	765.204	756.984	748.390	749.138	747.643
60.0	755.490	779.029	801.447	812.656	810.787	810.414	805.183	793.227	796.589	792.853
62.5	767.819	797.710	830.216	850.019	854.503	863.844	867.954	857.492	858.986	850.766
65.0	773.424	801.447	835.074	858.986	875.800	922.504	944.922	937.076	935.582	916.900

IES ROAD REPORT
PHOTOMETRIC FILENAME : VG1-L30-730-T5-XX-XXX-DIM-UNV_.IES

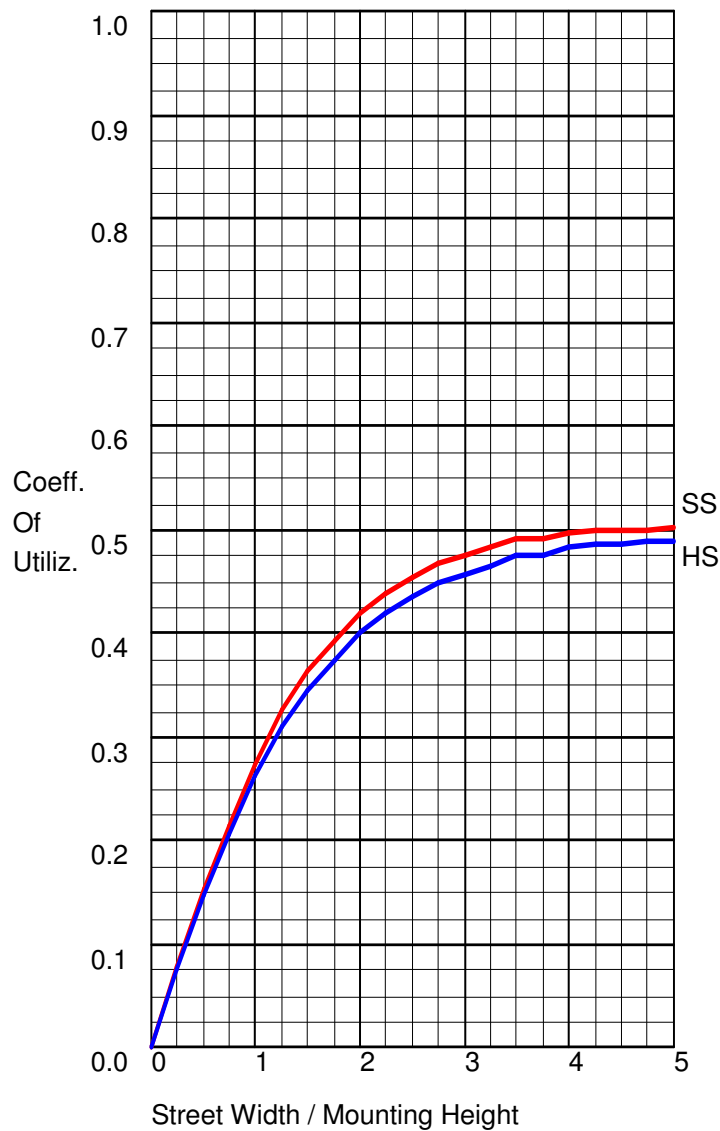
CANDELA TABULATION - (Cont.)

67.5	801.447	825.733	853.008	869.448	882.899	945.670	985.275	990.132	985.275	952.769
70.0	743.907	793.974	829.096	847.404	881.778	971.824	1012.550	1012.924	1015.166	982.659
72.5	750.259	816.766	824.986	795.842	816.392	874.305	929.977	942.681	957.252	910.922
75.0	595.947	691.972	728.588	755.863	786.501	722.236	655.729	673.290	676.653	705.796
77.5	229.038	298.908	394.932	458.824	519.726	561.199	504.407	462.933	496.187	566.057
80.0	85.562	100.881	122.926	178.971	264.160	323.941	333.282	353.832	343.370	349.722
82.5	33.253	40.353	53.803	70.617	96.771	131.146	157.300	162.905	154.311	148.707
85.0	9.341	11.583	16.440	22.418	30.264	42.221	55.298	58.661	58.287	53.430
87.5	1.495	1.495	2.615	3.363	5.978	5.978	7.473	7.099	7.099	7.099
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	436.405	436.405	436.405	436.405	436.405	436.405	436.405
2.5	435.285	434.911	435.285	434.164	434.911	436.405	436.779
5.0	428.933	427.812	428.185	427.438	427.812	428.933	428.559
7.5	422.955	422.207	421.834	421.086	421.086	421.834	421.460
10.0	418.471	417.724	417.724	417.724	417.350	417.724	418.471
12.5	418.097	418.097	418.097	417.724	417.350	417.350	417.724
15.0	421.834	421.460	420.339	418.845	417.350	416.976	416.976
17.5	427.438	424.823	421.460	418.471	417.724	417.724	418.471
20.0	433.790	428.933	424.075	421.834	423.328	423.328	424.449
22.5	440.515	436.032	431.175	430.427	433.043	434.164	434.911
25.0	446.867	443.878	440.889	441.636	444.625	446.494	448.362
27.5	454.714	454.340	453.219	454.340	457.703	458.824	460.692
30.0	467.791	466.296	467.043	469.659	473.769	474.516	476.758
32.5	477.132	477.879	481.242	485.352	490.209	492.077	495.813
35.0	489.835	493.198	499.550	505.901	512.253	515.616	520.100
37.5	508.517	514.495	522.715	530.561	539.155	544.012	548.496
40.0	531.309	538.781	547.001	558.958	569.419	575.398	579.881
42.5	557.837	566.057	576.892	588.475	600.431	606.783	611.267
45.0	586.980	594.453	603.794	615.003	624.717	631.443	634.058
47.5	614.629	620.607	629.948	639.289	647.883	651.619	653.487
50.0	642.652	646.388	656.476	663.949	671.048	673.664	676.279
52.5	671.795	677.026	687.114	692.345	694.213	694.213	696.455
55.0	707.664	712.148	717.752	716.632	712.522	708.038	707.291
57.5	743.907	745.028	746.522	741.665	725.972	713.642	711.027
60.0	783.886	783.139	777.160	763.336	737.555	722.236	720.742
62.5	832.832	826.480	810.040	789.117	752.874	736.808	733.071
65.0	874.305	849.646	824.612	796.963	758.105	748.390	745.028
67.5	888.877	858.986	847.777	832.832	799.205	790.611	787.248
70.0	907.933	859.360	836.568	809.667	771.556	736.061	732.324
72.5	846.283	805.183	804.809	802.568	758.852	720.742	714.390
75.0	798.084	780.523	773.050	718.500	658.344	600.431	589.222
77.5	571.288	510.011	473.395	432.295	351.964	290.314	270.138
80.0	321.700	227.544	160.289	137.124	120.310	106.486	105.365
82.5	124.794	87.431	66.881	58.661	50.441	42.968	43.342
85.0	42.594	29.144	22.418	18.308	15.319	12.704	12.330
87.5	5.605	4.110	2.989	2.615	2.615	2.242	2.242
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

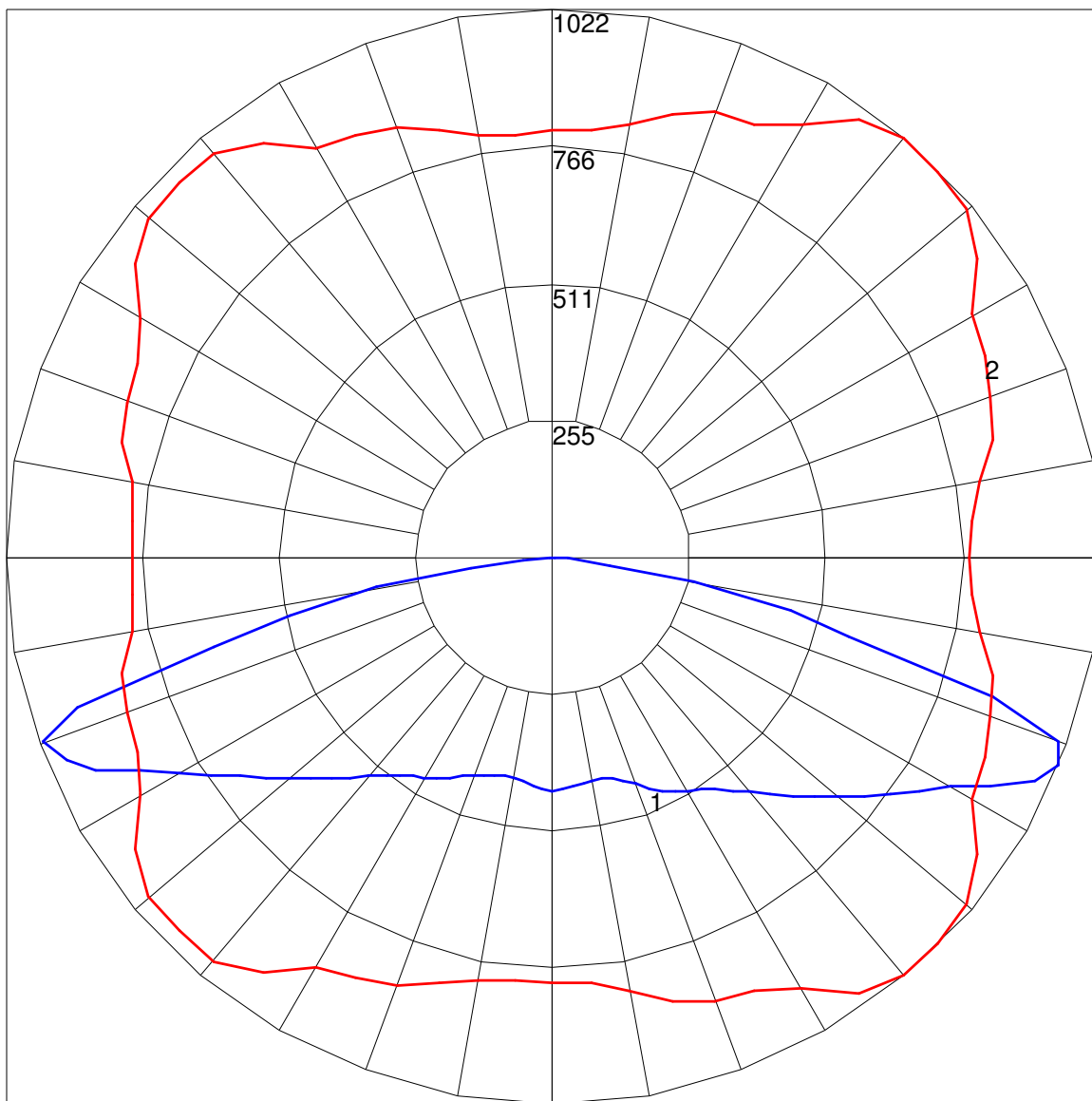
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

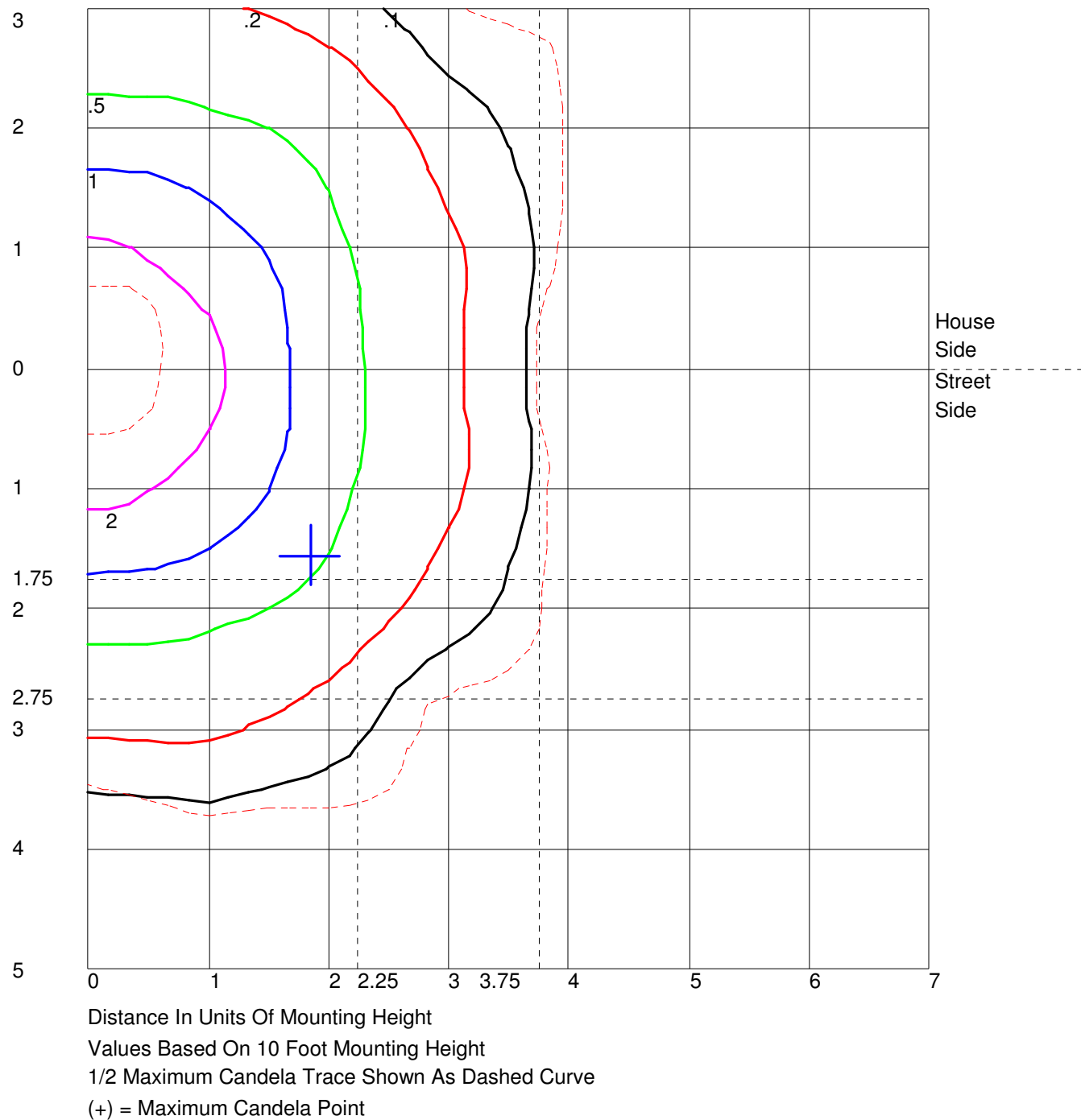
	Lumens	Percent Of Luminaire
Downward Street Side	1708.4	50.4
Downward House Side	1678.8	49.6
Downward Total	3387.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3387.2	100.0

POLAR GRAPH

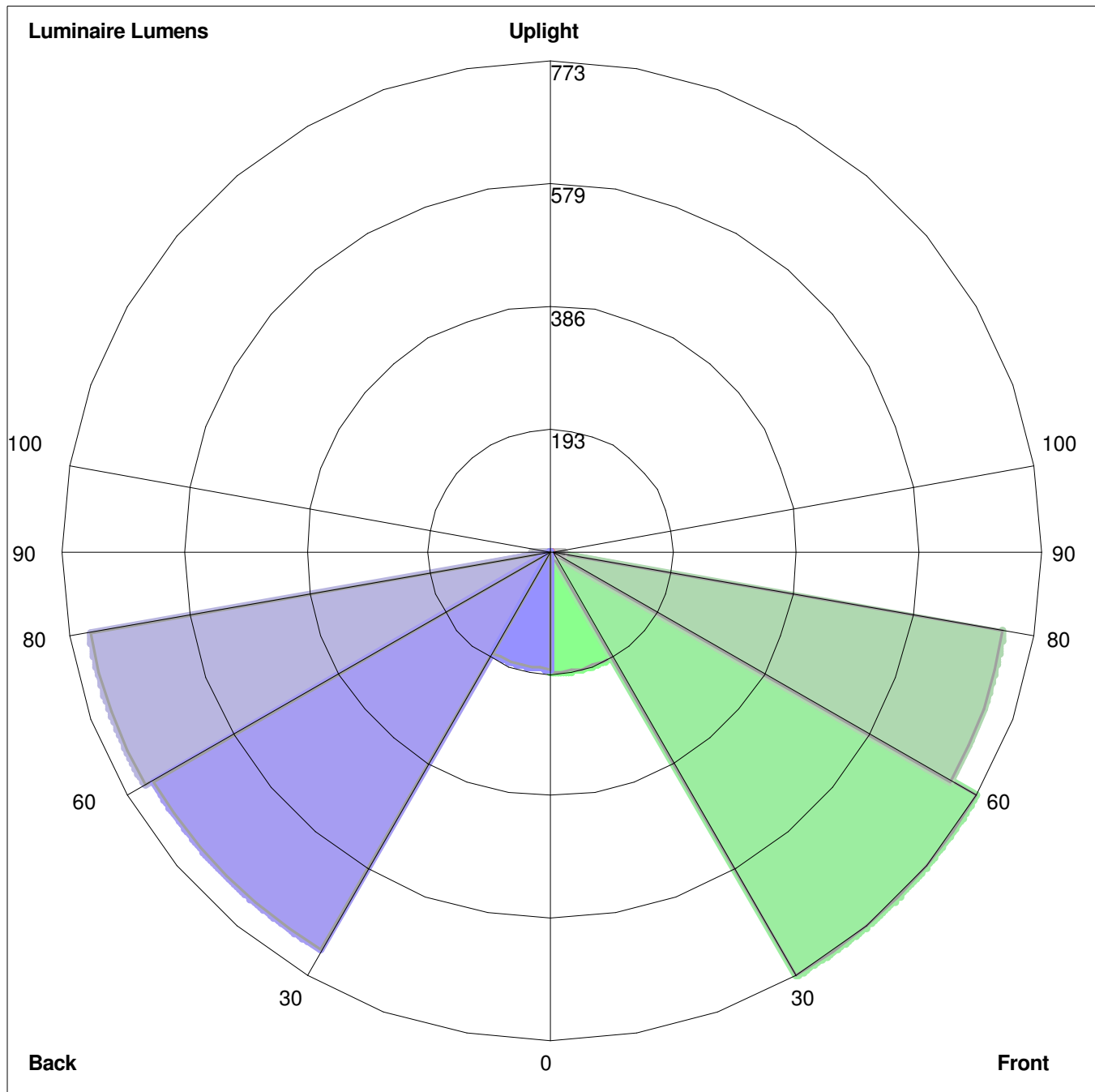


Maximum Candela = 1021.518 Located At Horizontal Angle = 50, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=191.5, Medium=772.6, High=724.3, Very High=20.0
 Back: Low=185.1, Medium=724.2, High=739.5, Very High=30.0
 Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1