



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L30-750-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-L30-750-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	3729
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	104
Total Luminaire Watts	36
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1124.665
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	1124.665
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	389.56 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L30-750-T5-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	210.8	N.A.	5.7
FM - Front-Medium (30-60)	850.6	N.A.	22.8
FH - Front-High (60-80)	797.5	N.A.	21.4
FVH - Front-Very High (80-90)	22.0	N.A.	0.6
BL - Back-Low (0-30)	203.8	N.A.	5.5
BM - Back-Medium (30-60)	797.3	N.A.	21.4
BH - Back-High (60-80)	814.1	N.A.	21.8
BVH - Back-Very High (80-90)	33.0	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	3729.1	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	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471
2.5	475.535	475.946	476.769	477.180	478.003	477.592	477.180	477.180	477.180	478.003
5.0	468.542	468.953	469.776	470.599	471.833	471.421	471.010	471.010	470.599	471.421
7.5	465.251	466.074	466.896	467.719	468.130	468.130	467.719	467.719	467.308	467.719
10.0	466.074	466.485	468.130	468.542	467.719	467.719	467.719	466.896	466.074	465.662
12.5	469.365	469.776	471.833	472.655	472.655	472.655	471.833	470.187	468.130	466.896
15.0	472.655	473.478	475.535	475.946	477.592	479.649	479.649	478.414	475.946	473.889
17.5	478.826	479.237	480.883	480.471	482.528	485.819	488.699	488.699	486.230	485.408
20.0	494.046	492.812	493.224	491.578	491.167	493.635	497.749	499.805	498.571	499.805
22.5	513.792	510.089	509.267	505.976	504.330	505.564	509.267	511.323	514.614	517.905
25.0	529.012	527.778	526.955	523.253	520.373	519.551	520.785	523.664	532.303	534.771
27.5	549.169	548.757	547.935	543.410	539.296	536.828	535.594	538.062	545.055	547.112
30.0	574.673	574.262	572.616	566.857	560.687	555.339	553.282	555.339	556.985	559.042
32.5	606.760	605.937	601.000	594.419	586.191	577.964	573.439	570.560	570.560	570.560
35.0	644.194	643.371	637.612	628.150	617.866	605.937	597.298	593.185	589.071	585.780
37.5	679.571	678.748	672.578	663.939	651.598	636.789	625.271	618.278	610.462	605.937
40.0	713.302	712.068	705.898	696.848	684.918	668.875	655.712	646.662	637.200	632.264
42.5	745.800	743.332	736.339	726.466	716.182	700.550	687.798	677.925	669.287	663.528
45.0	770.482	768.836	763.077	754.850	743.332	727.700	717.416	709.189	703.018	698.082
47.5	795.164	792.284	789.404	782.000	770.893	753.616	743.743	738.396	735.927	734.693
50.0	816.143	814.909	815.320	811.207	800.923	784.057	775.418	771.716	770.893	771.305
52.5	821.902	823.548	830.952	836.300	832.598	819.434	812.029	810.384	808.327	808.327
55.0	819.434	823.136	837.534	855.222	862.216	856.045	851.932	852.754	850.286	848.641
57.5	832.186	833.832	846.584	869.209	884.429	888.954	892.245	900.472	899.650	895.536
60.0	853.577	854.811	868.386	896.359	907.877	917.338	930.502	950.247	953.538	948.602
62.5	856.045	860.159	876.202	916.927	938.729	959.709	974.929	1006.192	1021.002	1021.824
65.0	875.379	878.670	893.479	932.147	951.893	968.758	990.972	1050.620	1090.110	1095.869
67.5	854.400	865.507	889.366	936.672	960.120	978.220	997.554	1068.308	1112.324	1123.431
70.0	802.568	811.207	851.109	907.877	930.913	939.963	966.290	1046.917	1092.167	1090.522
72.5	719.061	740.864	796.398	882.784	925.565	907.465	904.175	901.295	939.140	918.984
75.0	445.917	486.642	538.473	647.896	673.400	704.252	770.482	767.602	645.016	590.716
77.5	139.863	148.502	163.722	206.093	256.690	375.574	464.428	506.798	497.749	505.564
80.0	55.123	58.002	64.995	83.918	97.904	135.750	204.447	259.570	286.720	291.245
82.5	18.511	18.511	20.979	28.795	34.554	51.009	75.279	96.259	111.479	120.941
85.0	6.170	5.759	6.582	8.227	9.461	14.398	20.568	25.504	28.795	30.441
87.5	0.823	0.823	0.823	0.823	0.823	0.823	1.234	2.057	2.468	2.468
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	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471
2.5	479.237	481.705	481.294	479.237	477.592	477.592	478.826	478.826	479.237	478.414
5.0	473.067	474.301	473.889	472.244	470.599	470.599	471.421	471.421	471.010	470.599
7.5	468.953	468.953	467.719	467.308	465.251	465.662	466.074	465.662	464.428	464.428
10.0	466.485	465.662	464.017	463.605	462.783	464.017	464.017	464.428	463.194	462.783
12.5	467.719	466.485	465.662	466.074	465.662	466.485	465.251	464.428	463.194	462.371
15.0	473.478	473.478	471.833	471.010	469.776	467.719	464.428	463.194	462.371	461.549
17.5	483.351	482.528	480.060	477.180	473.478	470.599	467.719	466.896	465.662	465.662
20.0	496.926	493.635	490.344	485.408	481.705	479.649	477.592	477.180	475.535	475.535
22.5	513.792	505.564	501.039	496.926	493.635	492.812	492.812	491.989	490.755	489.933
25.0	531.069	518.317	510.912	509.678	508.855	508.855	508.855	508.033	508.444	506.387
27.5	543.821	531.892	524.487	525.310	526.955	526.544	527.367	526.955	527.367	525.310

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CANDELA TABULATION - (Cont.)

30.0	555.751	547.935	543.410	542.998	546.289	547.935	548.757	549.580	548.346	547.112
32.5	567.680	560.276	560.687	562.332	567.269	569.737	572.616	573.439	573.439	571.794
35.0	583.312	578.376	582.078	586.191	593.596	598.532	603.057	606.348	605.525	604.291
37.5	605.114	602.646	607.171	614.987	624.037	631.853	636.378	638.846	640.903	638.846
40.0	631.030	629.796	636.789	645.428	656.946	665.584	670.521	674.223	676.691	674.634
42.5	662.293	661.471	670.109	678.337	690.266	696.848	702.607	706.309	707.955	706.309
45.0	696.025	694.791	702.196	707.955	718.650	724.409	730.168	733.459	734.282	732.636
47.5	730.991	727.289	733.048	735.927	744.155	751.970	756.495	758.141	757.730	756.495
50.0	769.248	764.311	767.602	767.191	775.007	782.823	782.823	780.354	779.532	779.532
52.5	809.150	806.682	804.214	803.802	810.384	812.852	805.448	797.220	795.986	797.220
55.0	850.286	851.520	847.407	844.527	846.584	842.470	826.016	809.973	807.093	808.327
57.5	896.359	899.238	890.188	885.252	879.904	863.038	834.654	811.618	809.150	807.916
60.0	946.545	949.424	934.204	921.863	906.231	884.429	851.109	830.952	830.129	826.427
62.5	1016.477	1015.654	986.447	965.056	939.963	910.345	867.975	843.293	841.647	837.534
65.0	1094.224	1073.656	1010.717	975.340	952.715	922.275	876.202	854.811	849.052	846.172
67.5	1124.665	1097.104	1025.526	983.568	973.283	943.665	904.997	879.904	875.791	873.322
70.0	1107.799	1082.706	1007.838	950.247	942.431	912.402	860.570	805.859	798.454	794.341
72.5	948.602	924.331	911.168	911.168	940.374	928.034	865.095	775.418	772.127	772.950
75.0	626.916	744.155	811.618	768.836	755.261	710.834	659.414	573.028	568.503	571.794
77.5	501.862	517.905	509.678	425.760	355.828	261.215	226.249	190.872	187.993	188.815
80.0	292.890	277.258	246.406	160.020	121.763	97.904	87.620	77.747	78.159	77.336
82.5	117.650	109.011	94.613	66.229	51.009	38.668	33.320	29.618	30.029	29.618
85.0	31.675	31.675	27.973	18.923	14.398	10.284	9.050	8.227	8.639	9.050
87.5	2.057	2.880	2.057	2.057	1.645	1.645	1.234	1.234	1.234	1.234
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	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471	480.471
2.5	478.414	478.003	477.592	477.592	478.003	478.003	478.414	479.237	479.649	479.649
5.0	470.187	470.187	470.187	470.187	470.187	470.599	471.010	472.244	473.067	472.655
7.5	464.017	464.428	464.840	464.840	464.017	464.017	464.840	465.662	466.485	466.485
10.0	462.371	462.371	462.371	461.137	459.080	458.669	460.315	461.137	461.549	461.137
12.5	463.194	464.017	464.428	463.194	459.903	458.258	459.492	459.903	460.315	460.315
15.0	462.783	464.017	466.074	465.662	464.017	462.371	463.605	463.194	463.605	464.017
17.5	465.251	465.662	467.308	468.130	467.719	468.953	470.599	470.599	470.187	471.010
20.0	473.889	473.889	473.478	473.478	473.889	476.769	478.414	481.294	479.649	478.826
22.5	487.876	486.230	483.762	482.939	483.762	486.642	489.521	494.458	491.989	488.287
25.0	503.096	500.628	496.514	495.692	494.458	496.514	502.685	509.267	505.153	498.571
27.5	521.196	517.494	512.558	511.323	507.210	508.444	516.260	520.785	515.848	508.855
30.0	542.587	537.651	531.069	528.189	522.019	524.487	527.367	531.480	525.310	522.019
32.5	566.446	559.453	550.403	544.644	537.239	536.417	536.417	537.239	532.714	529.012
35.0	595.653	587.014	575.085	565.623	554.517	549.992	547.112	546.289	542.587	540.530
37.5	628.973	618.278	605.114	592.362	577.964	570.560	564.389	561.510	558.219	560.276
40.0	663.528	651.598	636.378	622.391	605.114	595.241	587.426	583.312	579.198	582.078
42.5	695.614	683.684	669.287	654.066	636.378	624.037	614.164	609.639	606.348	608.816
45.0	721.941	710.834	696.437	683.273	668.053	654.478	642.548	637.612	635.144	638.023
47.5	746.623	737.573	723.586	711.246	698.493	685.330	673.400	669.287	666.407	669.698
50.0	771.716	767.191	754.439	742.509	730.580	718.650	707.955	705.075	702.196	702.607
52.5	793.107	793.929	787.348	777.475	764.723	755.261	744.977	742.921	740.452	739.218
55.0	811.618	821.079	822.313	816.966	806.270	796.398	786.936	780.766	781.589	778.709
57.5	816.966	840.002	854.811	857.279	848.641	842.470	833.420	823.959	824.782	823.136
60.0	831.775	857.691	882.372	894.713	892.656	892.245	886.486	873.322	877.025	872.911
62.5	845.350	878.259	914.047	935.849	940.786	951.070	955.595	944.077	945.722	936.672
65.0	851.520	882.372	919.395	945.722	964.233	1015.654	1040.336	1031.697	1030.051	1009.483

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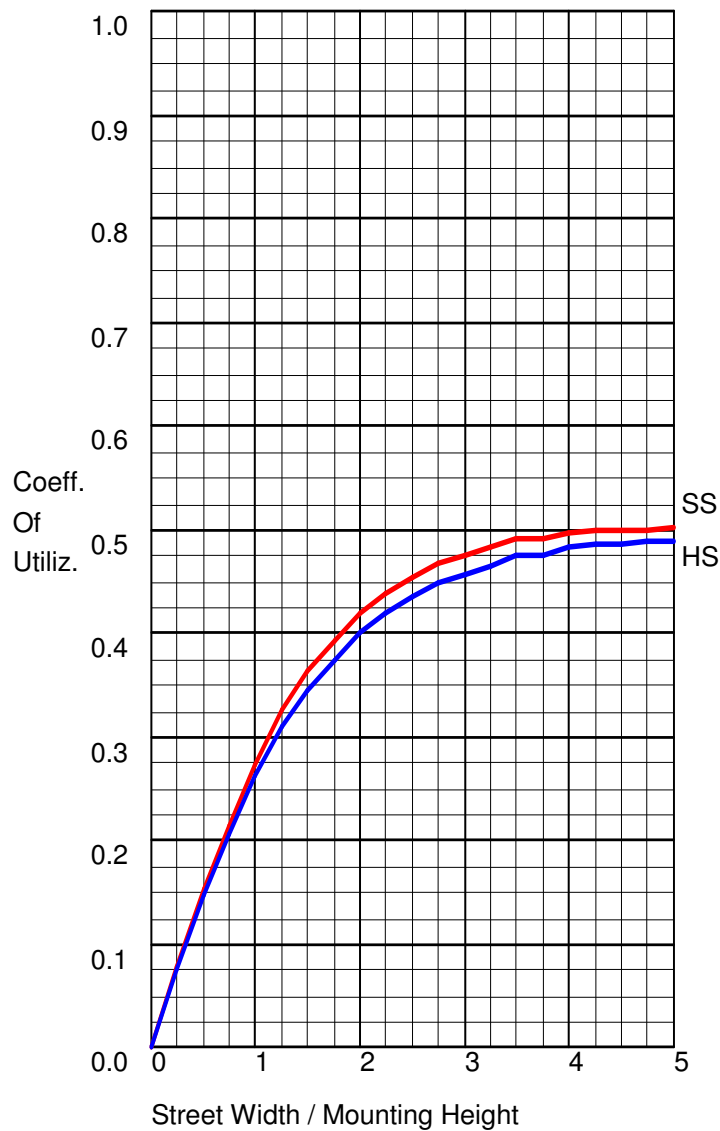
CANDELA TABULATION - (Cont.)

67.5	882.372	909.111	939.140	957.240	972.049	1041.158	1084.763	1090.110	1084.763	1048.974
70.0	819.023	874.145	912.813	932.970	970.815	1069.954	1114.792	1115.203	1117.672	1081.883
72.5	826.016	899.238	908.288	876.202	898.827	962.588	1023.881	1037.867	1053.910	1002.902
75.0	656.123	761.843	802.157	832.186	865.918	795.164	721.941	741.275	744.977	777.064
77.5	252.165	329.090	434.810	505.153	572.205	617.866	555.339	509.678	546.289	623.214
80.0	94.202	111.068	135.338	197.043	290.833	356.651	366.935	389.560	378.042	385.035
82.5	36.611	44.427	59.236	77.747	106.543	144.388	173.184	179.354	169.893	163.722
85.0	10.284	12.752	18.100	24.682	33.320	46.484	60.882	64.584	64.173	58.825
87.5	1.645	1.645	2.880	3.702	6.582	6.582	8.227	7.816	7.816	7.816
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	480.471	480.471	480.471	480.471	480.471	480.471	480.471
2.5	479.237	478.826	479.237	478.003	478.826	480.471	480.883
5.0	472.244	471.010	471.421	470.599	471.010	472.244	471.833
7.5	465.662	464.840	464.428	463.605	463.605	464.428	464.017
10.0	460.726	459.903	459.903	459.903	459.492	459.903	460.726
12.5	460.315	460.315	460.315	459.903	459.492	459.492	459.903
15.0	464.428	464.017	462.783	461.137	459.492	459.080	459.080
17.5	470.599	467.719	464.017	460.726	459.903	459.903	460.726
20.0	477.592	472.244	466.896	464.428	466.074	466.074	467.308
22.5	484.996	480.060	474.712	473.889	476.769	478.003	478.826
25.0	491.989	488.699	485.408	486.230	489.521	491.578	493.635
27.5	500.628	500.217	498.983	500.217	503.919	505.153	507.210
30.0	515.026	513.380	514.203	517.083	521.608	522.430	524.898
32.5	525.310	526.133	529.835	534.360	539.707	541.764	545.878
35.0	539.296	542.998	549.992	556.985	563.978	567.680	572.616
37.5	559.864	566.446	575.496	584.135	593.596	598.944	603.880
40.0	584.957	593.185	602.235	615.398	626.916	633.498	638.434
42.5	614.164	623.214	635.144	647.896	661.059	668.053	672.989
45.0	646.250	654.478	664.762	677.103	687.798	695.202	698.082
47.5	676.691	683.273	693.557	703.841	713.302	717.416	719.473
50.0	707.543	711.657	722.764	730.991	738.807	741.686	744.566
52.5	739.630	745.389	756.495	762.255	764.311	764.311	766.780
55.0	779.120	784.057	790.227	788.993	784.468	779.532	778.709
57.5	819.023	820.257	821.902	816.554	799.277	785.702	782.823
60.0	863.038	862.216	855.634	840.413	812.029	795.164	793.518
62.5	916.927	909.934	891.834	868.797	828.895	811.207	807.093
65.0	962.588	935.438	907.877	877.436	834.654	823.959	820.257
67.5	978.631	945.722	933.381	916.927	879.904	870.443	866.741
70.0	999.611	946.134	921.040	891.422	849.463	810.384	806.270
72.5	931.736	886.486	886.075	883.606	835.477	793.518	786.525
75.0	878.670	859.336	851.109	791.050	724.821	661.059	648.719
77.5	628.973	561.510	521.196	475.946	387.503	319.629	297.415
80.0	354.183	250.520	176.474	150.970	132.459	117.238	116.004
82.5	137.395	96.259	73.634	64.584	55.534	47.307	47.718
85.0	46.895	32.086	24.682	20.157	16.866	13.986	13.575
87.5	6.170	4.525	3.291	2.880	2.880	2.468	2.468
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

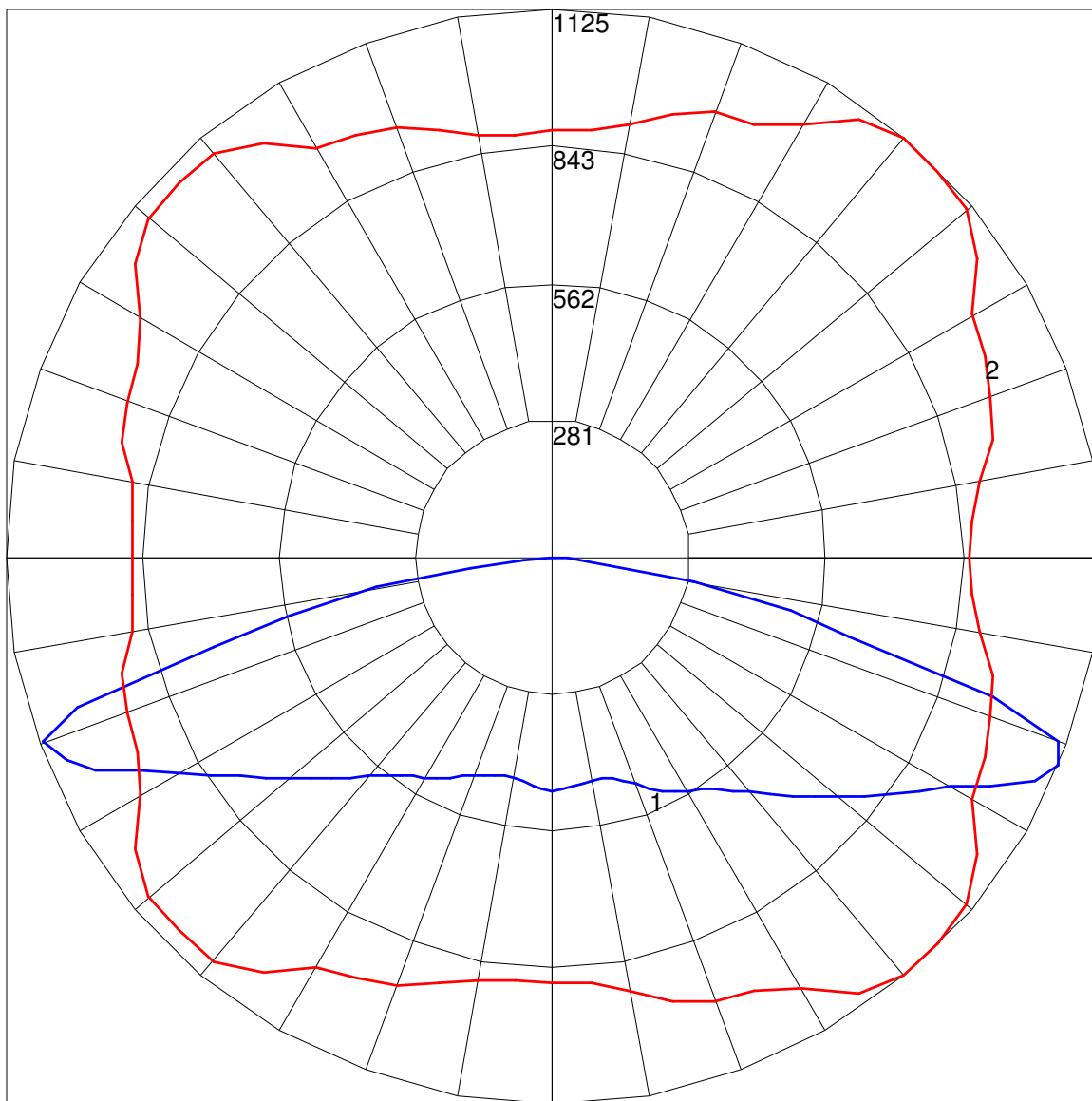
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Luminaire
Downward Street Side	1880.9	50.4
Downward House Side	1848.3	49.6
Downward Total	3729.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3729.2	100.0

POLAR GRAPH

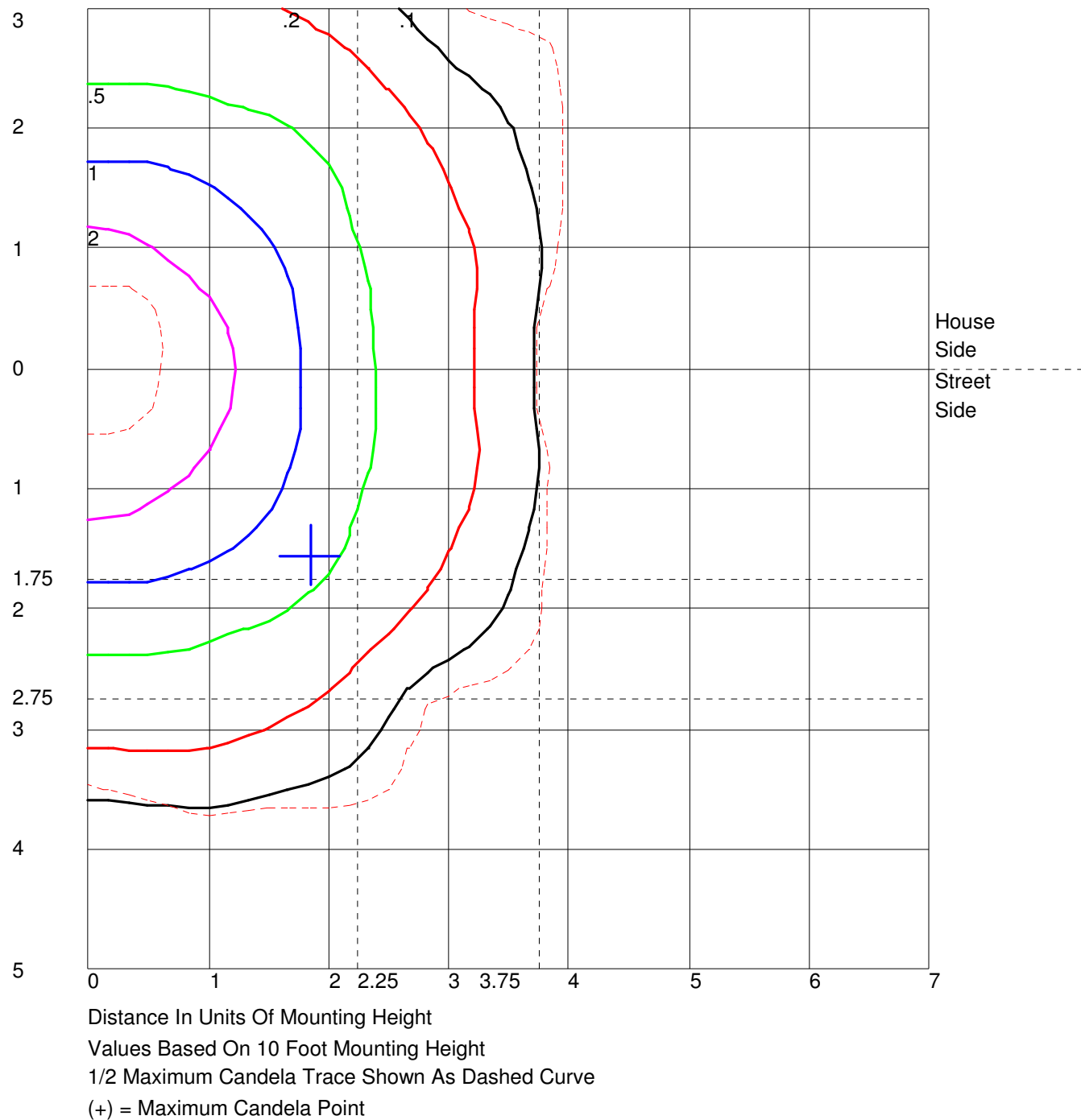


Maximum Candela = 1124.665 Located At Horizontal Angle = 50, Vertical Angle = 67.5

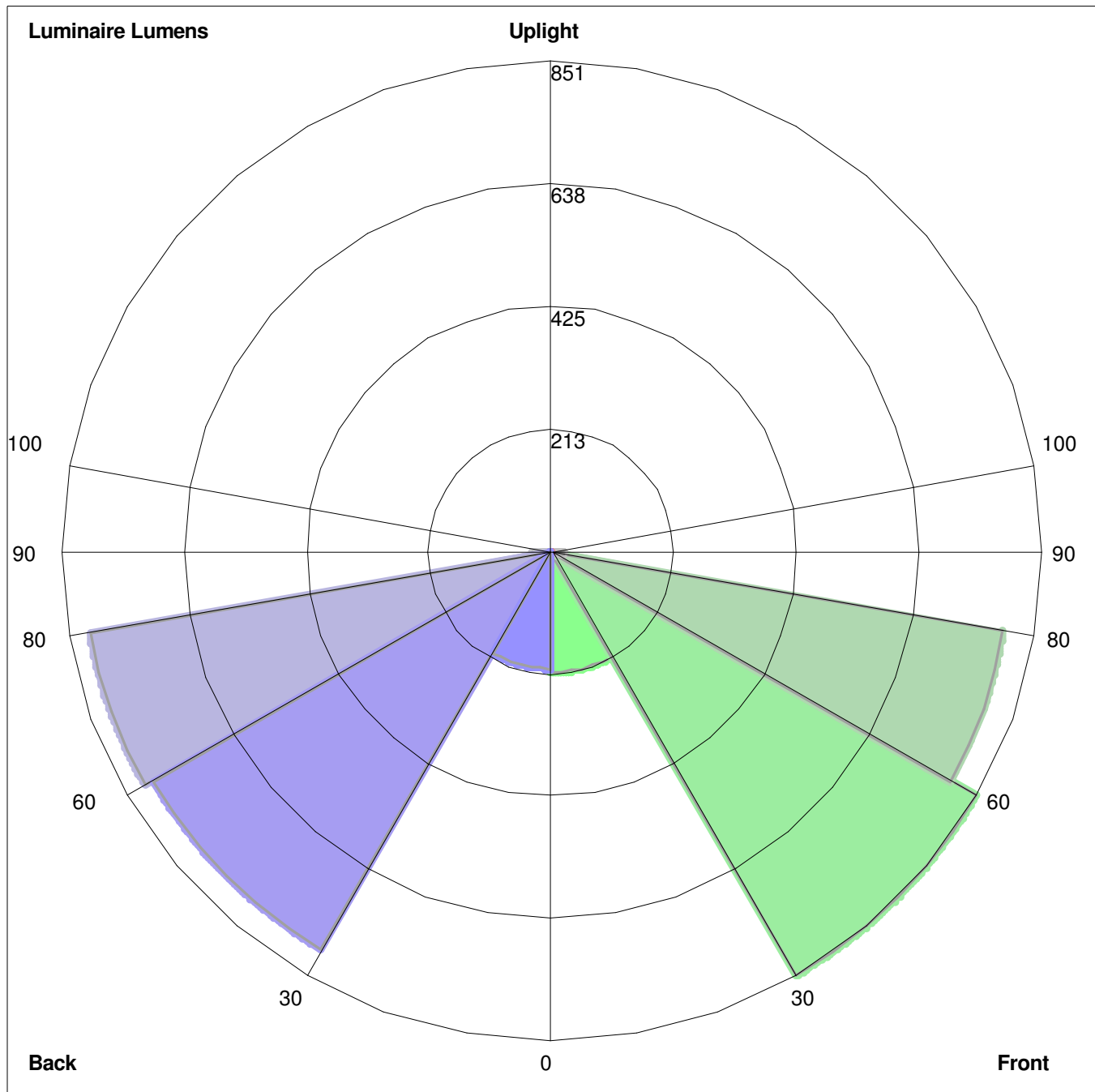
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)

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=210.8, Medium=850.6, High=797.5, Very High=22.0
Back: Low=203.8, Medium=797.3, High=814.1, Very High=33.0
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G1