



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWMH-L20-740-T3-XXX-CGL-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]GEN FROM ATAL009833  
[TESTLAB]ATAL-LABS  
[ISSUEDATE]11-11-2022  
[MANUFAC]WILLIAMS OUTDOOR  
[OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMCAT]VWMH-L20-740-T3-CLR-OPT-EDD-UNV  
[LUMINAIRE]VOLTAIRE HORIZONTAL MINI ARCHITECTURAL WALL PACK WITH TYPE  
[MORE]III MOLDED REFRACTIVE CLEAR ACRYLIC LED LENS AND A CLEAR  
[MORE]GLASS LENS.  
[LAMPCAT]X4-LUXEON M 3000K  
[LAMP](4) LUXEON M 5000K LEDS  
[BALLASTCAT]X1-LUC-024S050DSP  
[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER  
[OTHER]INPUT WATTS: 25.24, AMPS: 0.2115, VAC: 120.04, TEMP: 25.4 C  
[\_SEARCH\_SOURCE]TYPE] LED  
[\_SEARCH\_APPLICATION] Outdoor, Architectural, Commercial, Facade, Direct, Wet Location  
[\_SEARCH\_MOUNTING] Wall  
[\_SEARCH\_CERTIFICATION] DLC

### CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2868
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	27
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1211.12
Maximum Candela Angle	42.5H 50V
Maximum Candela (<90 Degrees Vertical)	1211.12
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 50V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	318.4 (11.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWMH-L20-740-T3-XXX-CGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	382.4	N.A.	13.3
FM - Front-Medium (30-60)	1057.0	N.A.	36.8
FH - Front-High (60-80)	523.3	N.A.	18.2
FVH - Front-Very High (80-90)	16.7	N.A.	0.6
BL - Back-Low (0-30)	245.7	N.A.	8.6
BM - Back-Medium (30-60)	444.7	N.A.	15.5
BH - Back-High (60-80)	194.1	N.A.	6.8
BVH - Back-Very High (80-90)	4.6	N.A.	0.2
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	2868.5	N.A.	100.0
BUG Rating	B1-U0-G1		

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

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<u><b>0.0</b></u>	<u><b>5.0</b></u>	<u><b>15.0</b></u>	<u><b>25.0</b></u>	<u><b>35.0</b></u>	<u><b>42.5</b></u>	<u><b>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>
<b>0.0</b>	746.136	746.136	746.136	746.136	746.136	746.136	746.136	746.136	746.136	746.136
<b>2.5</b>	779.779	776.174	766.562	766.562	765.361	758.152	756.950	759.353	758.152	755.749
<b>5.0</b>	795.398	794.197	783.383	785.786	786.988	780.980	779.779	780.980	777.376	773.771
<b>7.5</b>	803.809	803.809	795.398	799.003	802.607	799.003	797.801	801.406	799.003	795.398
<b>10.0</b>	836.250	833.847	825.436	824.235	826.638	821.832	818.227	821.832	818.227	815.824
<b>12.5</b>	866.287	863.884	859.078	861.481	865.086	856.675	851.869	847.063	836.250	833.847
<b>15.0</b>	863.884	865.086	863.884	877.101	892.720	891.519	887.914	874.698	856.675	847.063
<b>17.5</b>	881.907	880.705	877.101	879.504	896.325	910.743	911.945	902.333	877.101	856.675
<b>20.0</b>	952.796	955.199	937.176	913.146	899.930	909.542	914.348	920.355	897.527	865.086
<b>22.5</b>	1039.304	1039.304	1005.662	967.214	927.564	910.743	908.340	922.758	913.146	875.899
<b>25.0</b>	1117.402	1107.790	1062.133	1011.670	961.206	927.564	917.952	916.751	920.355	884.310
<b>27.5</b>	1160.657	1154.649	1104.186	1042.909	988.841	952.796	941.982	917.952	923.960	892.720
<b>30.0</b>	1181.082	1171.470	1122.209	1068.141	1012.871	975.625	967.214	929.967	927.564	897.527
<b>32.5</b>	1182.284	1173.873	1131.821	1088.566	1039.304	1000.856	990.043	945.587	933.572	901.131
<b>35.0</b>	1173.873	1166.664	1134.224	1112.596	1062.133	1027.289	1014.073	957.602	943.184	908.340
<b>37.5</b>	1129.418	1123.410	1119.805	1124.612	1096.977	1050.118	1034.498	963.609	951.594	923.960
<b>40.0</b>	1016.476	1018.879	1059.730	1114.999	1136.627	1080.156	1058.529	973.222	957.602	949.191
<b>42.5</b>	830.242	842.257	895.123	1068.141	1161.858	1112.596	1090.969	982.834	961.206	972.020
<b>45.0</b>	660.829	669.240	720.905	915.549	1163.060	1155.851	1124.612	990.043	962.408	993.647
<b>47.5</b>	579.127	585.134	629.590	747.338	1135.425	1196.702	1169.067	998.453	963.609	1012.871
<b>50.0</b>	517.850	522.656	568.313	689.666	1005.662	1211.120	1194.299	1003.259	967.214	1028.491
<b>52.5</b>	466.185	470.991	510.641	664.434	889.116	1158.254	1165.463	1028.491	994.849	1053.723
<b>55.0</b>	432.543	438.550	476.999	634.396	854.272	978.028	1053.723	1074.148	1017.677	1072.947
<b>57.5</b>	398.901	404.908	439.752	604.359	811.018	827.839	916.751	1123.410	1038.103	1078.954
<b>60.0</b>	338.825	341.228	376.072	561.104	744.935	741.330	825.436	1119.805	1027.289	1070.544
<b>62.5</b>	251.115	258.324	287.160	469.790	652.419	664.434	720.905	1065.738	992.446	1053.723
<b>65.0</b>	139.375	148.987	187.435	361.654	540.679	585.134	621.180	949.191	975.625	1083.760
<b>67.5</b>	93.718	98.524	129.763	266.735	440.953	497.424	519.051	803.809	994.849	1094.574
<b>70.0</b>	63.680	66.083	96.121	204.256	341.228	404.908	421.729	684.860	1035.700	1095.775
<b>72.5</b>	44.456	45.657	66.083	148.987	243.906	306.385	324.407	580.328	985.237	999.655
<b>75.0</b>	32.441	32.441	45.657	106.934	158.599	215.070	223.480	403.707	860.280	859.078
<b>77.5</b>	22.829	22.829	30.038	69.687	97.322	129.763	135.770	248.712	688.464	612.769
<b>80.0</b>	14.418	15.620	18.023	42.053	56.471	62.478	73.292	177.823	318.400	227.085
<b>82.5</b>	8.411	9.612	9.612	21.627	28.836	25.232	30.038	103.330	91.315	78.098
<b>85.0</b>	4.806	4.806	4.806	6.008	8.411	8.411	8.411	24.030	22.829	26.433
<b>87.5</b>	2.403	2.403	2.403	2.403	2.403	2.403	2.403	2.403	3.605	3.605
<b>90.0</b>	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><b>85.0</b></u>	<u><b>90.0</b></u>	<u><b>95.0</b></u>	<u><b>105.0</b></u>	<u><b>115.0</b></u>	<u><b>125.0</b></u>	<u><b>135.0</b></u>	<u><b>145.0</b></u>	<u><b>155.0</b></u>	<u><b>165.0</b></u>
<b>0.0</b>	746.136	746.136	746.136	746.136	746.136	746.136	746.136	746.136	746.136	746.136
<b>2.5</b>	749.741	748.540	744.935	741.330	736.524	732.920	728.114	725.711	726.912	725.711
<b>5.0</b>	764.159	760.555	754.547	744.935	732.920	722.106	708.890	699.278	694.472	689.666
<b>7.5</b>	783.383	777.376	768.965	753.346	734.121	713.696	693.270	675.248	664.434	654.822
<b>10.0</b>	803.809	794.197	783.383	761.756	736.524	710.091	681.255	658.426	645.210	633.195
<b>12.5</b>	820.630	808.615	795.398	766.562	735.323	704.084	672.845	651.217	635.598	618.777
<b>15.0</b>	831.444	818.227	801.406	765.361	730.517	696.875	669.240	641.605	615.172	587.537
<b>17.5</b>	837.451	821.832	803.809	760.555	719.703	690.867	660.829	622.381	574.321	529.865
<b>20.0</b>	841.056	823.033	801.406	752.144	707.688	680.054	639.202	579.127	501.029	420.528
<b>22.5</b>	844.660	823.033	799.003	743.733	696.875	663.232	603.157	505.835	364.057	276.347
<b>25.0</b>	847.063	821.832	794.197	734.121	688.464	640.404	551.492	390.490	252.317	231.891
<b>27.5</b>	850.668	823.033	791.794	725.711	677.651	609.165	468.588	272.742	242.705	248.712

# IES ROAD REPORT

PHOTOMETRIC FILENAME : VVMH-L20-740-T3-XXX-CGL-DIM-UNV\_.IES

## CANDELA TABULATION - (Cont.)

30.0	855.474	823.033	788.189	719.703	664.434	565.910	362.855	249.914	259.526	275.145
32.5	857.877	823.033	784.585	716.099	652.419	510.641	273.944	259.526	284.757	300.377
35.0	859.078	821.832	779.779	713.696	633.195	440.953	267.936	278.750	301.579	312.392
37.5	862.683	819.428	772.570	704.084	610.366	367.661	277.548	290.765	303.982	314.795
40.0	872.295	821.832	770.167	693.270	577.925	306.385	278.750	287.160	295.571	299.176
42.5	883.108	825.436	766.562	678.852	537.074	261.929	259.526	275.145	273.944	285.959
45.0	893.922	830.242	764.159	663.232	485.409	239.100	234.294	255.921	270.339	361.654
47.5	908.340	837.451	765.361	650.016	432.543	203.055	205.458	234.294	344.833	403.707
50.0	926.363	847.063	768.965	638.001	389.289	165.808	182.629	297.974	370.064	421.729
52.5	938.378	851.869	773.771	630.792	362.855	145.382	165.808	314.795	329.213	290.765
55.0	963.609	869.892	790.592	642.807	359.251	134.569	176.622	217.473	156.196	154.995
57.5	1000.856	896.325	800.204	636.799	342.430	122.554	126.158	126.158	118.949	114.143
60.0	1000.856	908.340	814.622	618.777	311.191	114.143	105.733	106.934	102.128	96.121
62.5	1023.685	917.952	814.622	595.948	281.153	105.733	94.919	91.315	87.710	86.509
65.0	1059.730	927.564	803.809	547.888	253.518	96.121	86.509	78.098	78.098	82.904
67.5	1094.574	949.191	817.025	553.895	223.480	86.509	72.090	67.284	68.486	81.703
70.0	1121.007	967.214	830.242	577.925	195.846	76.897	56.471	51.665	49.262	42.053
72.5	1052.521	897.527	776.174	555.097	181.428	62.478	40.851	30.038	19.224	14.418
75.0	873.496	732.920	629.590	454.170	140.576	44.456	22.829	12.015	8.411	6.008
77.5	528.664	439.752	410.916	347.236	80.501	22.829	8.411	4.806	2.403	1.202
80.0	154.995	115.345	109.337	156.196	39.650	9.612	3.605	1.202	0.000	0.000
82.5	54.068	42.053	39.650	36.045	14.418	3.605	1.202	1.202	0.000	0.000
85.0	18.023	15.620	15.620	14.418	3.605	2.403	1.202	0.000	0.000	0.000
87.5	3.605	3.605	3.605	2.403	1.202	0.000	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

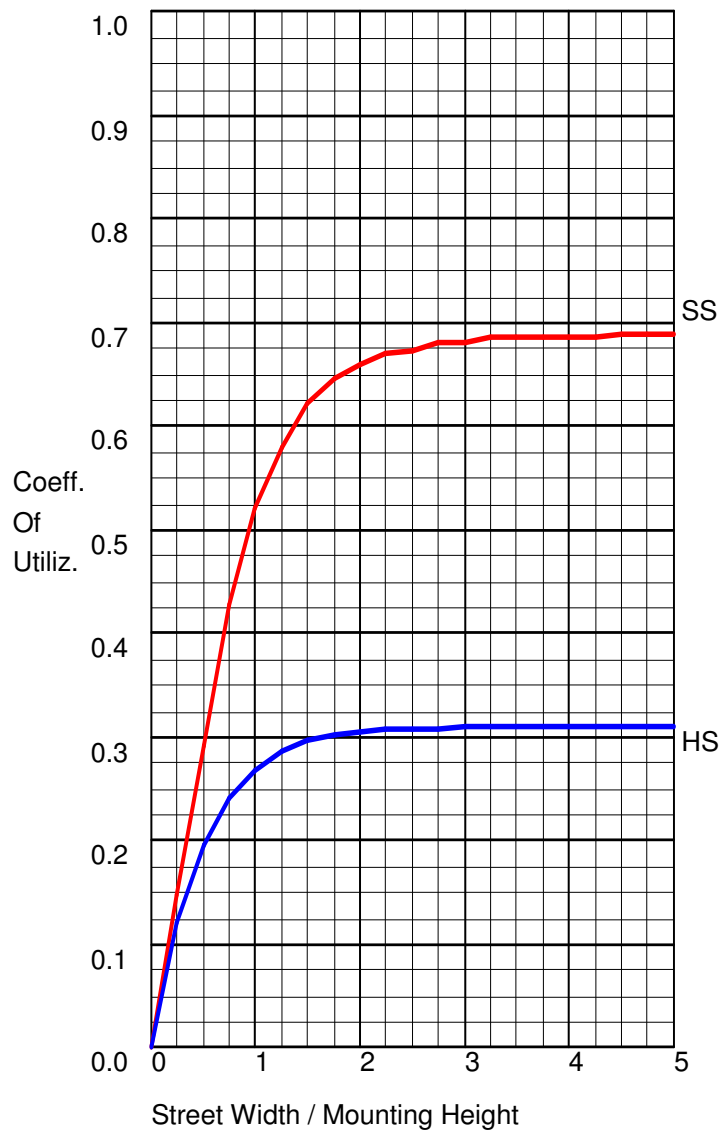
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	746.136	746.136
2.5	717.300	720.905
5.0	677.651	680.054
7.5	640.404	641.605
10.0	617.575	616.374
12.5	599.553	598.351
15.0	561.104	559.903
17.5	492.618	491.417
20.0	361.654	364.057
22.5	239.100	239.100
25.0	230.690	229.488
27.5	257.123	255.921
30.0	284.757	284.757
32.5	308.788	309.989
35.0	318.400	318.400
37.5	317.198	317.198
40.0	300.377	301.579
42.5	325.609	328.012
45.0	396.498	398.901
47.5	430.140	433.744
50.0	439.752	442.155
52.5	272.742	259.526
55.0	159.801	156.196
57.5	116.546	115.345
60.0	97.322	96.121
62.5	91.315	91.315
65.0	97.322	99.725

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWMH-L20-740-T3-XXX-CGL-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	91.315	92.516
<b>70.0</b>	24.030	24.030
<b>72.5</b>	13.217	13.217
<b>75.0</b>	4.806	6.008
<b>77.5</b>	0.000	0.000
<b>80.0</b>	0.000	0.000
<b>82.5</b>	0.000	0.000
<b>85.0</b>	0.000	0.000
<b>87.5</b>	0.000	0.000
<b>90.0</b>	0.000	0.000

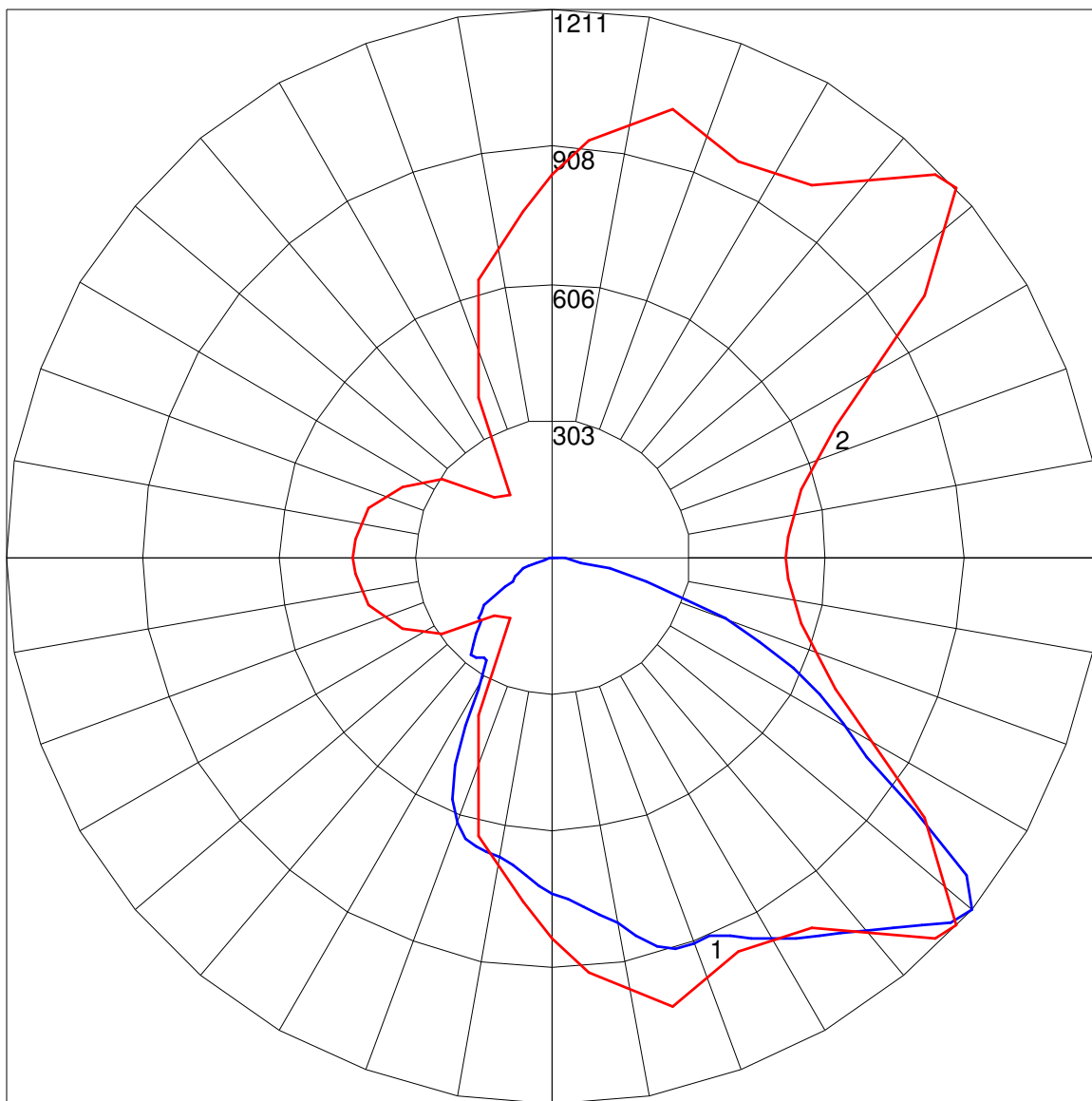
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

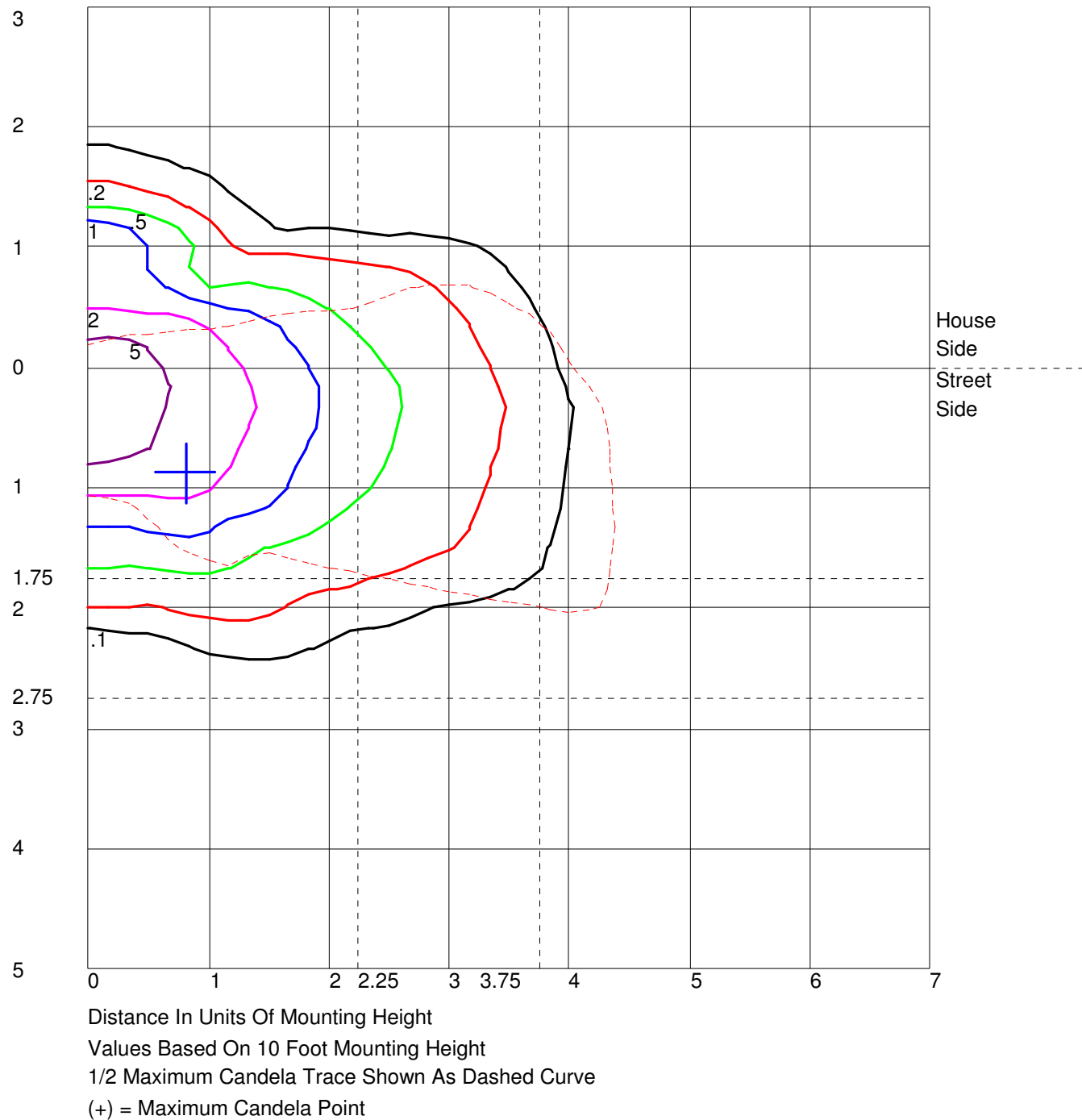
	Lumens	Percent Of Luminaire
Downward Street Side	1979.4	69.0
Downward House Side	889.0	31.0
Downward Total	2868.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2868.4	100.0

POLAR GRAPH

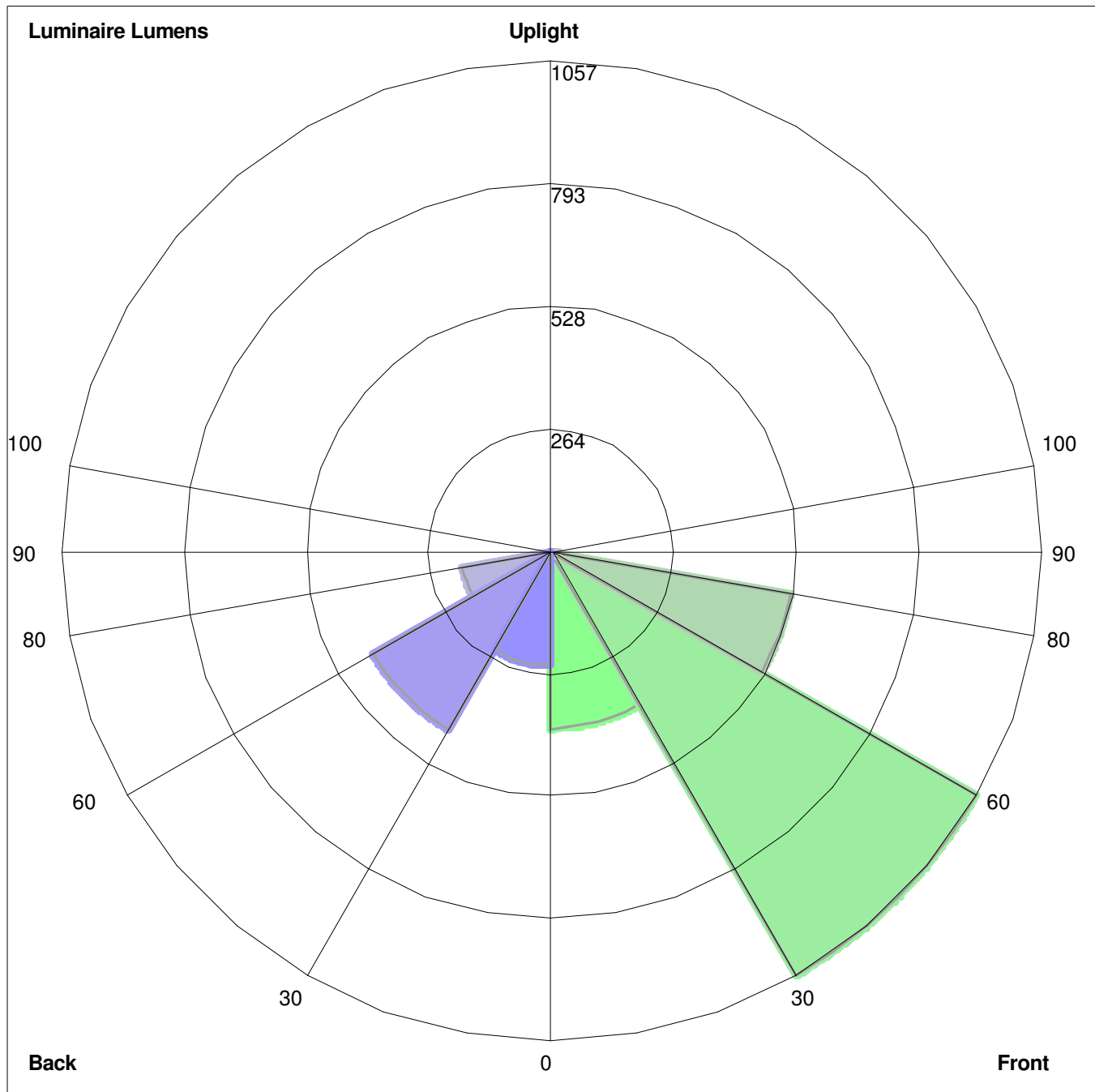


Maximum Candela = 1211.12 Located At Horizontal Angle = 42.5, Vertical Angle = 50  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=382.4, Medium= 1057.0, High=523.3, Very High=16.7  
Back: Low=245.7, Medium=444.7, High=194.1, Very High=4.6  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1