



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VWMH-L20-730-T3-XXX-SDGL-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]GEN FROM ATAL009396  
[TESTLAB]ATAL-LABS  
[ISSUE]DATE] 6-DEC-2022  
[MANUFAC]WILLIAMS OUTDOOR  
[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT]VWMH-L20-730-T3-SDGL-xxx-xxx  
[LUMINAIRE]VOLTAIRE HORIZONTAL MINI ARCHITECTURAL WALL PACK WITH TYPE  
[MORE]III MOLDED REFRACTIVE CLEAR ACRYLIC LED LENS AND A SOLITE  
[MORE]GLASS LENS  
[LAMP](4) LUXEON M 3000K LEDS  
[BALLASTCAT]X1-EUC-018S050DSP  
[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER  
[OTHER]INPUT WATTS: 27, AMPS: 0.2114 VAC: 120.05, TEMP: 25.5 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	2831
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	25.2
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1264.897
Maximum Candela Angle	2.5H 30V
Maximum Candela (<90 Degrees Vertical)	1264.897
Maximum Candela Angle (<90 Degrees Vertical)	2.5H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	221.191 (7.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VWMH-L20-730-T3-XXX-SDGL-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	432.4	N.A.	15.3
FM - Front-Medium (30-60)	1116.6	N.A.	39.4
FH - Front-High (60-80)	400.4	N.A.	14.1
FVH - Front-Very High (80-90)	23.9	N.A.	0.8
BL - Back-Low (0-30)	267.5	N.A.	9.5
BM - Back-Medium (30-60)	445.8	N.A.	15.7
BH - Back-High (60-80)	137.5	N.A.	4.9
BVH - Back-Very High (80-90)	6.7	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	2830.8	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>2.5</b></u>	<u><b>5.0</b></u>	<u><b>10.0</b></u>	<u><b>15.0</b></u>	<u><b>20.0</b></u>	<u><b>25.0</b></u>	<u><b>30.0</b></u>	<u><b>35.0</b></u>	<u><b>40.0</b></u>
<b>0.0</b>	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680
<b>2.5</b>	884.766	882.117	882.117	883.441	880.792	882.117	879.468	878.143	874.170	870.196
<b>5.0</b>	919.203	919.203	916.554	909.931	903.309	903.309	901.984	903.309	901.984	895.362
<b>7.5</b>	924.501	924.501	925.825	927.150	925.825	925.825	921.852	920.527	921.852	921.852
<b>10.0</b>	943.044	943.044	943.044	945.693	947.017	947.017	944.368	945.693	948.342	949.666
<b>12.5</b>	964.236	965.560	964.236	964.236	962.911	969.534	973.507	976.156	978.805	977.481
<b>15.0</b>	994.699	992.050	992.050	989.401	988.077	989.401	989.401	996.024	1002.646	1002.646
<b>17.5</b>	1021.189	1021.189	1021.189	1025.163	1026.487	1025.163	1018.540	1017.216	1018.540	1018.540
<b>20.0</b>	1091.388	1091.388	1087.414	1080.792	1068.871	1058.275	1042.381	1037.083	1033.110	1031.785
<b>22.5</b>	1156.288	1157.613	1152.315	1143.043	1125.825	1103.308	1086.090	1070.196	1055.626	1046.355
<b>25.0</b>	1211.917	1207.944	1203.970	1193.374	1170.858	1147.017	1124.500	1101.984	1075.494	1054.302
<b>27.5</b>	1234.434	1234.434	1233.109	1222.513	1209.268	1188.076	1165.560	1135.096	1109.931	1084.765
<b>30.0</b>	1264.897	1264.897	1260.924	1249.003	1233.109	1215.891	1198.672	1172.182	1150.990	1119.202
<b>32.5</b>	1264.897	1260.924	1254.301	1247.679	1234.434	1234.434	1221.189	1198.672	1181.454	1150.990
<b>35.0</b>	1214.566	1210.593	1207.944	1210.593	1214.566	1223.838	1222.513	1222.513	1213.242	1189.401
<b>37.5</b>	1136.421	1139.070	1136.421	1145.692	1162.911	1182.778	1201.321	1213.242	1229.136	1211.917
<b>40.0</b>	1034.434	1029.136	1027.812	1039.732	1076.818	1117.878	1161.586	1201.321	1225.162	1226.487
<b>42.5</b>	900.660	898.011	901.984	920.527	966.885	1023.838	1084.765	1164.235	1207.944	1234.434
<b>45.0</b>	773.508	770.859	776.157	798.673	842.382	907.282	988.077	1092.712	1169.533	1213.242
<b>47.5</b>	652.978	654.303	663.574	687.415	733.773	797.349	883.441	994.699	1098.010	1169.533
<b>50.0</b>	552.316	552.316	560.263	588.078	626.488	694.038	778.806	895.362	1007.944	1104.633
<b>52.5</b>	470.197	467.548	474.171	499.336	531.124	596.025	687.415	801.322	912.580	1014.567
<b>55.0</b>	399.999	398.674	403.972	423.840	450.330	520.528	607.945	712.581	818.541	909.931
<b>57.5</b>	339.072	337.747	339.072	356.290	385.429	446.356	525.826	622.515	717.879	797.349
<b>60.0</b>	274.171	272.847	275.496	294.039	319.204	373.509	450.330	533.773	618.541	695.362
<b>62.5</b>	213.244	213.244	215.893	234.436	259.602	305.959	378.807	449.005	524.502	593.376
<b>65.0</b>	164.238	164.238	166.887	180.132	205.297	249.006	307.284	369.535	433.111	496.687
<b>67.5</b>	124.503	124.503	127.152	139.072	160.264	196.026	246.357	299.337	353.641	407.946
<b>70.0</b>	95.364	95.364	95.364	105.960	121.854	152.317	194.701	237.085	282.118	328.476
<b>72.5</b>	71.523	71.523	74.172	79.470	92.715	116.556	149.668	185.430	221.191	256.953
<b>75.0</b>	51.655	51.655	52.980	58.278	67.549	86.092	111.258	139.072	166.887	194.701
<b>77.5</b>	35.761	37.086	38.410	41.059	49.006	60.927	79.470	99.337	120.529	143.046
<b>80.0</b>	23.841	23.841	25.165	26.490	31.788	39.735	52.980	66.225	79.470	95.364
<b>82.5</b>	14.569	14.569	14.569	15.894	19.867	23.841	31.788	39.735	49.006	56.953
<b>85.0</b>	6.622	6.622	6.622	7.947	9.271	11.920	14.569	19.867	23.841	27.814
<b>87.5</b>	2.649	2.649	2.649	2.649	2.649	3.973	3.973	5.298	6.622	7.947
<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>45.0</b></u>	<u><b>50.0</b></u>	<u><b>55.0</b></u>	<u><b>60.0</b></u>	<u><b>65.0</b></u>	<u><b>70.0</b></u>	<u><b>75.0</b></u>	<u><b>80.0</b></u>	<u><b>85.0</b></u>	<u><b>90.0</b></u>
<b>0.0</b>	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680
<b>2.5</b>	871.521	872.845	872.845	871.521	866.223	862.249	859.600	855.627	852.978	850.329
<b>5.0</b>	891.388	883.441	879.468	879.468	876.819	876.819	872.845	870.196	864.898	859.600
<b>7.5</b>	924.501	921.852	917.878	911.256	903.309	899.335	894.037	888.739	880.792	871.521
<b>10.0</b>	952.315	952.315	949.666	945.693	936.421	932.448	925.825	916.554	904.633	890.064
<b>12.5</b>	974.832	972.183	969.534	966.885	957.613	948.342	940.395	928.474	915.229	899.335
<b>15.0</b>	1001.322	996.024	988.077	978.805	973.507	962.911	952.315	936.421	920.527	904.633
<b>17.5</b>	1019.865	1018.540	1017.216	1009.269	998.673	985.428	974.832	957.613	935.097	915.229
<b>20.0</b>	1030.461	1030.461	1033.110	1033.110	1029.136	1017.216	998.673	976.156	953.640	929.799
<b>22.5</b>	1038.408	1031.785	1033.110	1027.812	1022.514	1014.567	1002.646	982.779	956.289	927.150
<b>25.0</b>	1046.355	1045.030	1047.679	1042.381	1034.434	1025.163	1009.269	989.401	960.262	927.150
<b>27.5</b>	1074.169	1060.924	1051.653	1054.302	1051.653	1043.706	1023.838	1003.971	976.156	939.070

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## CANDELA TABULATION - (Cont.)

30.0	1095.361	1068.871	1062.249	1062.249	1066.222	1058.275	1041.057	1017.216	982.779	945.693
32.5	1119.202	1096.686	1076.818	1070.196	1074.169	1067.547	1052.977	1022.514	984.103	940.395
35.0	1160.262	1124.500	1098.010	1084.765	1079.467	1070.196	1054.302	1026.487	985.428	939.070
37.5	1185.427	1147.017	1109.931	1092.712	1083.441	1080.792	1074.169	1039.732	998.673	941.719
40.0	1203.970	1160.262	1117.878	1094.037	1094.037	1094.037	1087.414	1056.951	1010.593	949.666
42.5	1217.215	1174.831	1127.149	1096.686	1095.361	1099.335	1091.388	1055.626	1005.295	939.070
45.0	1209.268	1170.858	1131.123	1098.010	1100.659	1101.984	1096.686	1068.871	1009.269	936.421
47.5	1178.805	1150.990	1112.580	1088.739	1083.441	1090.063	1090.063	1067.547	1006.620	929.799
50.0	1132.447	1121.851	1095.361	1076.818	1074.169	1086.090	1094.037	1071.520	1007.944	927.150
52.5	1066.222	1075.494	1064.898	1056.951	1062.249	1080.792	1090.063	1064.898	1001.322	919.203
55.0	970.858	1011.918	1026.487	1027.812	1037.083	1056.951	1070.196	1054.302	989.401	905.958
57.5	870.196	933.772	973.507	984.103	997.348	1017.216	1042.381	1026.487	969.534	882.117
60.0	769.534	845.031	908.607	928.474	947.017	966.885	993.375	984.103	936.421	847.680
62.5	666.223	744.369	811.918	850.329	874.170	901.984	932.448	935.097	884.766	803.971
65.0	565.561	637.084	711.256	762.912	801.322	830.461	863.574	867.547	825.163	747.018
67.5	467.548	536.422	609.270	670.197	723.177	758.938	785.428	786.753	756.289	680.793
70.0	378.807	441.058	509.932	573.508	630.462	664.899	687.415	682.117	659.601	594.700
72.5	298.012	352.317	413.244	475.495	524.502	562.912	577.482	574.833	545.694	494.038
75.0	229.138	275.496	321.853	373.509	411.919	441.058	447.681	446.356	419.866	381.456
77.5	165.562	202.648	237.085	278.145	305.959	325.827	327.151	324.502	303.310	275.496
80.0	109.933	136.423	160.264	189.403	207.946	221.191	221.191	218.542	202.648	182.781
82.5	66.225	82.119	95.364	115.231	124.503	132.450	131.125	129.801	123.178	107.284
85.0	30.463	38.410	43.708	54.304	56.953	60.927	60.927	59.602	55.629	50.331
87.5	7.947	9.271	10.596	13.245	13.245	14.569	14.569	13.245	13.245	10.596
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>95.0</u>	<u>100.0</u>	<u>105.0</u>	<u>110.0</u>	<u>115.0</u>	<u>120.0</u>	<u>125.0</u>	<u>130.0</u>	<u>135.0</u>	<u>140.0</u>
0.0	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680
2.5	847.680	846.355	846.355	843.706	843.706	842.382	839.733	834.435	830.461	826.488
5.0	854.302	847.680	841.057	834.435	829.137	819.865	811.918	803.971	801.322	797.349
7.5	862.249	852.978	842.382	830.461	817.216	802.647	794.700	786.753	780.130	772.183
10.0	876.819	864.898	850.329	837.084	823.839	811.918	798.673	785.428	772.183	758.938
12.5	886.090	872.845	858.276	841.057	822.514	807.945	792.051	773.508	753.640	735.097
15.0	886.090	866.223	845.031	823.839	803.971	781.455	764.236	747.018	731.124	707.283
17.5	894.037	867.547	843.706	819.865	796.024	768.210	748.342	723.177	696.687	664.899
20.0	901.984	879.468	852.978	823.839	789.402	761.587	729.799	690.064	647.680	606.621
22.5	899.335	868.872	834.435	799.998	774.832	739.071	698.011	646.356	593.376	537.747
25.0	894.037	859.600	825.163	786.753	748.342	701.985	651.654	597.349	531.124	463.575
27.5	900.660	860.925	821.190	780.130	735.097	680.793	610.594	537.747	460.926	388.078
30.0	903.309	859.600	821.190	774.832	712.581	639.733	560.263	474.171	394.701	335.098
32.5	896.686	850.329	805.296	750.991	684.766	601.323	504.634	413.244	343.045	300.661
35.0	887.415	838.408	790.726	728.475	649.005	554.965	449.005	356.290	307.284	284.767
37.5	887.415	829.137	770.859	700.660	610.594	504.634	393.376	316.555	283.443	275.496
40.0	887.415	823.839	758.938	675.495	566.886	446.356	340.396	279.469	260.926	266.224
42.5	870.196	805.296	731.124	645.031	524.502	397.350	296.688	249.006	243.708	252.979
45.0	863.574	789.402	712.581	610.594	483.442	353.641	262.251	223.840	222.516	237.085
47.5	849.004	769.534	680.793	570.859	437.085	308.608	226.489	198.675	201.324	218.542
50.0	846.355	757.614	660.925	541.720	398.674	267.549	194.701	173.509	180.132	197.350
52.5	831.786	740.395	641.058	513.906	369.535	239.734	170.860	150.993	157.615	172.185
55.0	811.918	723.177	614.568	486.091	339.072	214.569	150.993	131.125	136.423	147.019
57.5	785.428	692.713	582.780	455.628	311.257	193.377	133.774	113.907	113.907	119.205
60.0	754.965	654.303	548.343	423.840	283.443	172.185	116.556	99.337	95.364	96.688
62.5	712.581	614.568	507.283	381.456	251.655	150.993	101.986	84.768	79.470	78.145
65.0	660.925	562.912	462.250	340.396	222.516	132.450	88.741	72.847	64.900	62.251

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## CANDELA TABULATION - (Cont.)

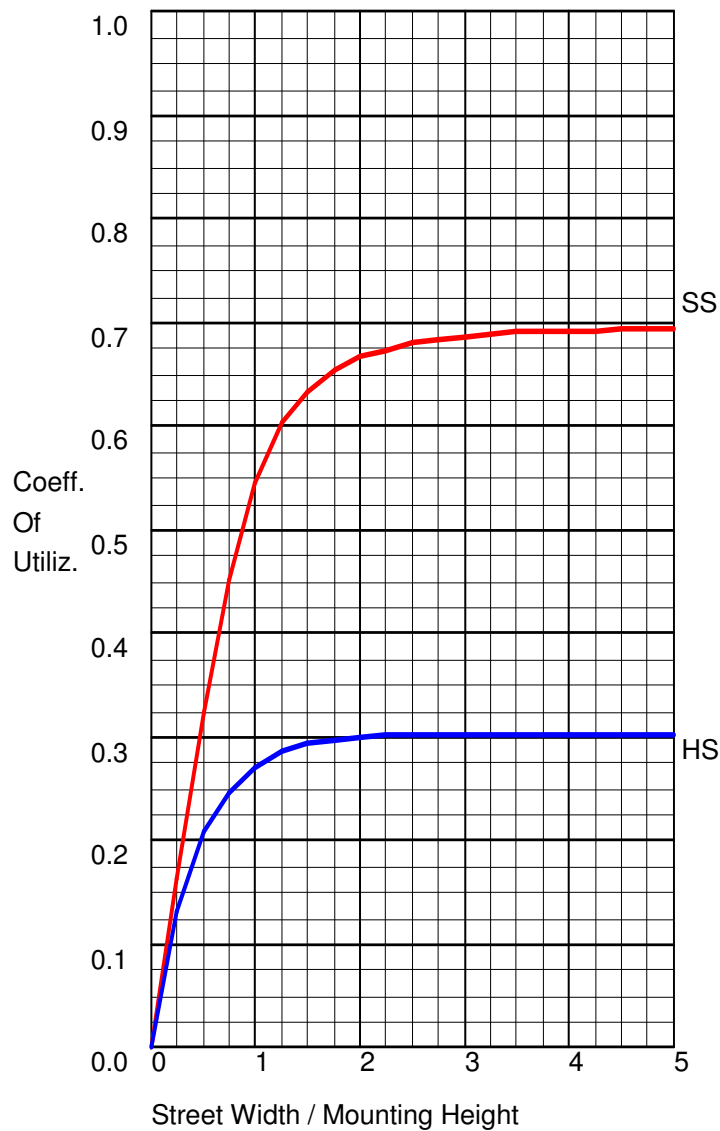
67.5	602.647	508.608	414.568	300.661	192.052	115.231	75.496	60.927	51.655	45.033
70.0	525.826	446.356	360.264	259.602	164.238	98.013	63.576	47.682	37.086	30.463
72.5	438.409	370.860	298.012	214.569	132.450	79.470	47.682	31.788	21.192	15.894
75.0	340.396	287.416	233.112	166.887	104.635	56.953	26.490	15.894	7.947	3.973
77.5	247.681	207.946	170.860	121.854	75.496	26.490	11.920	5.298	2.649	1.324
80.0	165.562	137.748	116.556	80.794	41.059	14.569	5.298	2.649	1.324	0.000
82.5	98.013	79.470	67.549	46.357	18.543	6.622	2.649	1.324	1.324	0.000
85.0	43.708	34.437	29.139	15.894	5.298	1.324	0.000	0.000	0.000	0.000
87.5	9.271	6.622	3.973	1.324	0.000	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. Angles

## Horizontal Angles

	<u>145.0</u>	<u>150.0</u>	<u>155.0</u>	<u>160.0</u>	<u>165.0</u>	<u>170.0</u>	<u>175.0</u>	<u>180.0</u>
0.0	847.680	847.680	847.680	847.680	847.680	847.680	847.680	847.680
2.5	821.190	821.190	822.514	825.163	822.514	819.865	814.567	811.918
5.0	794.700	793.375	789.402	788.077	785.428	784.104	782.779	784.104
7.5	764.236	754.965	749.667	745.693	743.044	747.018	750.991	753.640
10.0	745.693	729.799	719.203	712.581	707.283	707.283	703.309	701.985
12.5	716.554	701.985	686.091	671.521	659.601	654.303	649.005	650.329
15.0	686.091	662.250	635.760	610.594	590.727	584.104	577.482	578.806
17.5	631.786	598.674	566.886	536.422	504.634	495.363	487.416	486.091
20.0	566.886	525.826	484.767	447.681	413.244	396.025	381.456	380.131
22.5	486.091	435.760	392.052	356.290	328.476	316.555	308.608	305.959
25.0	403.972	357.615	320.529	299.337	283.443	275.496	274.171	274.171
27.5	337.747	303.310	284.767	274.171	272.847	271.522	271.522	274.171
30.0	299.337	283.443	279.469	280.794	283.443	286.092	290.065	287.416
32.5	283.443	282.118	290.065	296.688	299.337	303.310	303.310	304.635
35.0	280.794	288.741	299.337	307.284	312.582	320.529	323.178	327.151
37.5	283.443	292.714	304.635	313.906	323.178	329.800	336.423	337.747
40.0	278.145	288.741	300.661	315.231	328.476	340.396	341.721	343.045
42.5	267.549	280.794	296.688	315.231	329.800	344.370	352.317	354.966
45.0	256.953	278.145	296.688	312.582	329.800	340.396	343.045	341.721
47.5	241.059	263.575	280.794	292.714	305.959	312.582	321.853	321.853
50.0	217.218	234.436	249.006	255.628	267.549	270.198	278.145	276.820
52.5	189.403	198.675	206.622	210.595	217.218	217.218	225.165	223.840
55.0	157.615	162.913	162.913	162.913	165.562	164.238	170.860	166.887
57.5	123.178	125.827	124.503	125.827	124.503	124.503	128.476	124.503
60.0	98.013	98.013	95.364	95.364	94.039	96.688	98.013	98.013
62.5	76.821	75.496	71.523	71.523	71.523	75.496	76.821	75.496
65.0	58.278	56.953	54.304	55.629	56.953	58.278	59.602	59.602
67.5	42.384	41.059	38.410	34.437	26.490	19.867	15.894	15.894
70.0	26.490	21.192	13.245	7.947	5.298	3.973	3.973	3.973
72.5	7.947	5.298	2.649	2.649	1.324	1.324	1.324	1.324
75.0	1.324	1.324	1.324	1.324	0.000	0.000	0.000	0.000
77.5	1.324	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
82.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
87.5	0.000	0.000	0.000	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

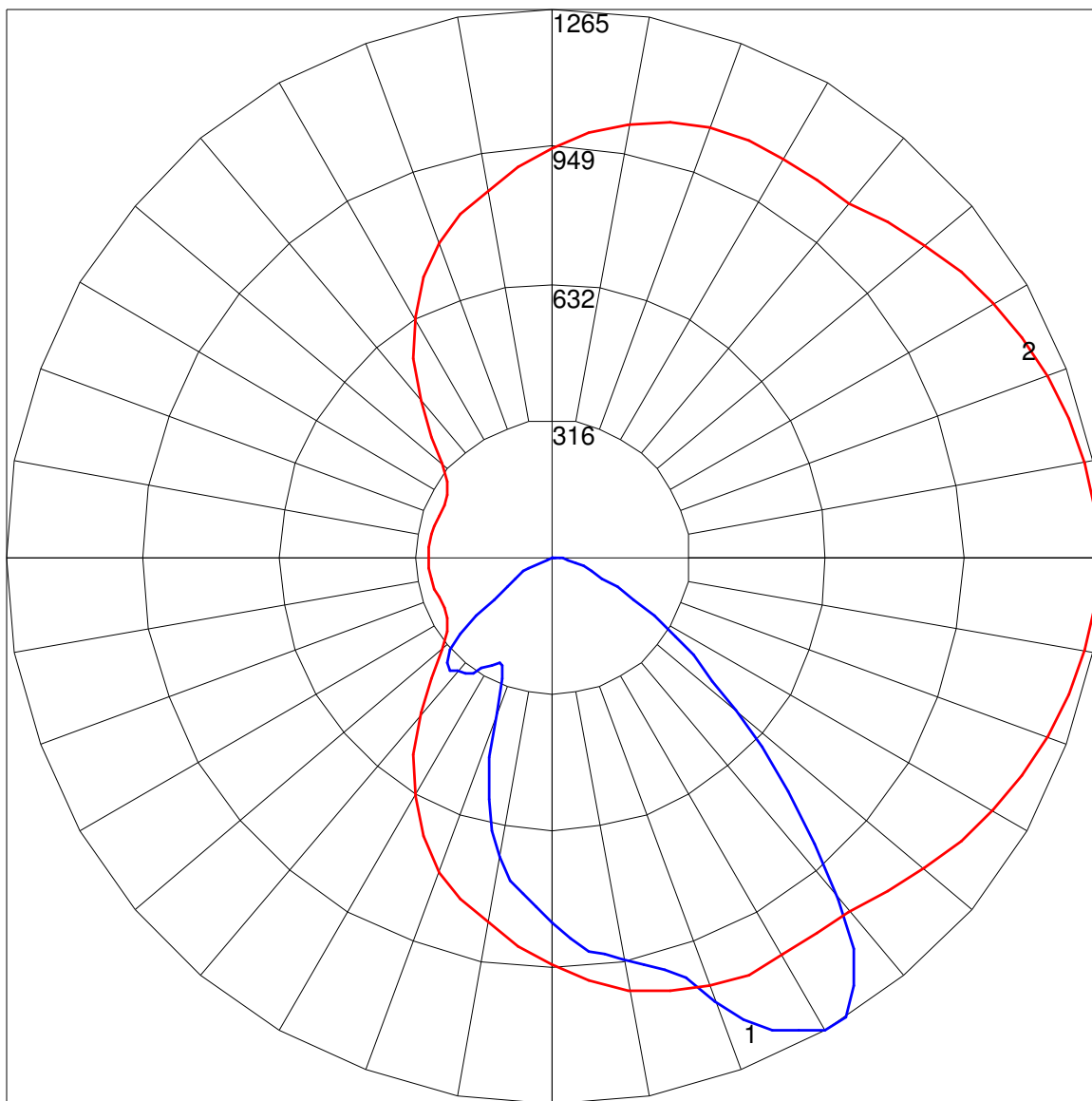
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

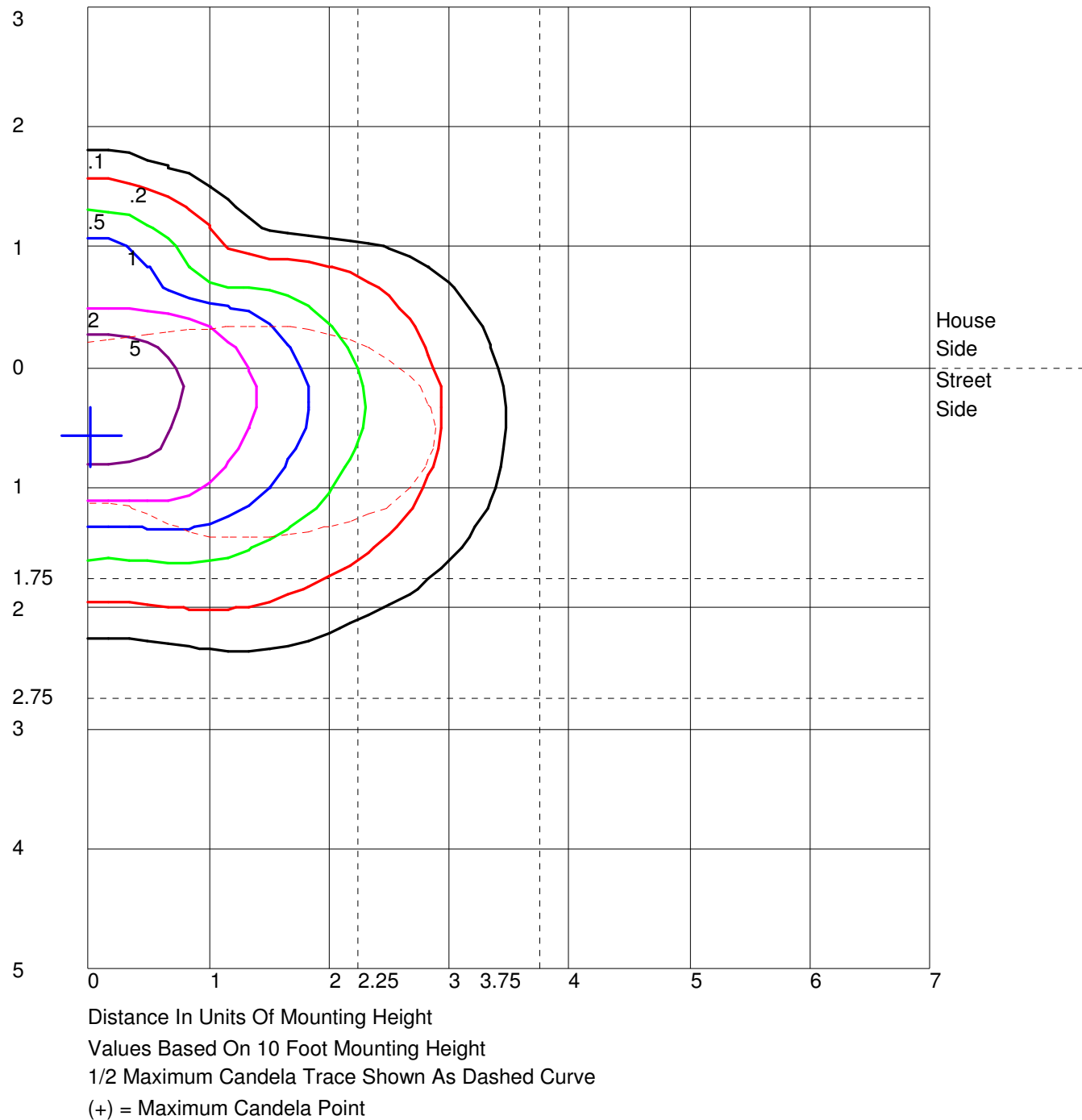
	Lumens	Percent Of Luminaire
Downward Street Side	1973.4	69.7
Downward House Side	857.5	30.3
Downward Total	2830.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2830.9	100.0

POLAR GRAPH



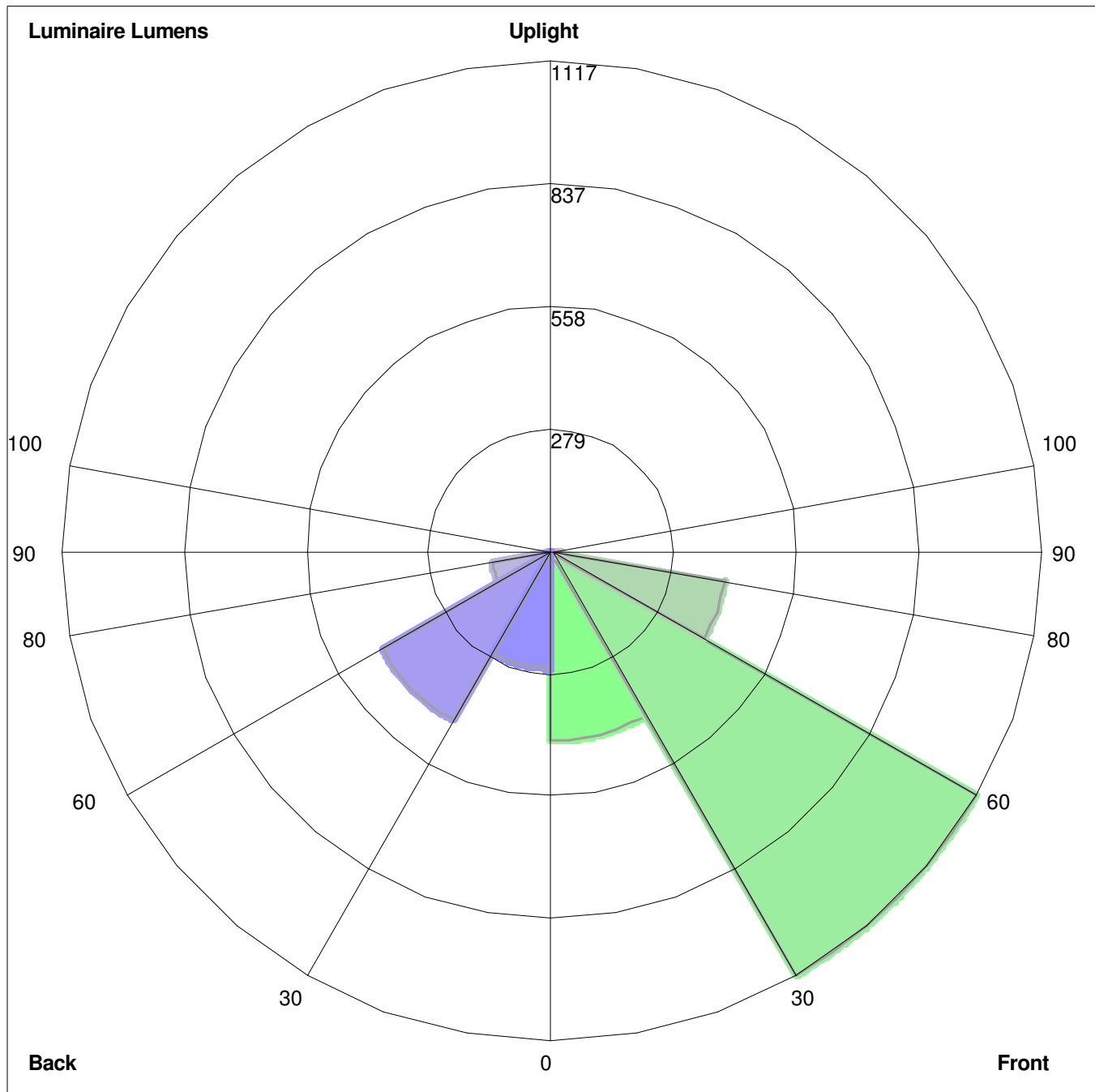
Maximum Candela = 1264.897 Located At Horizontal Angle = 2.5, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (2.5 - 182.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=432.4, Medium=1116.6, High=400.4, Very High=23.9  
Back: Low=267.5, Medium=445.8, High=137.5, Very High=6.7  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1