



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWMH-L20-750-T3-XXX-SDGL-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN from ATAL009398
[TESTLAB]ATAL-LABS
[ISSUEDATE] 6-DEC-2022
[MANUFAC]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT]VWMH-L20-750-T3-SDGL-xxx-DIM-UNV
[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 5000K LEDS
[BALLASTCAT]X1-EUC-018S050DSP
[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 27, AMPS: 0.2097, VAC: 120.04, TEMP: 25.6 C
[_SEARCH_SOURCETYPE] 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	3014
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	27
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1225.395
Maximum Candela Angle	0H 30V
Maximum Candela (<90 Degrees Vertical)	1225.395
Maximum Candela Angle (<90 Degrees Vertical)	0H 30V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	287.1 (9.5% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWMH-L20-750-T3-XXX-SDGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	420.0	N.A.	13.9
FM - Front-Medium (30-60)	1126.8	N.A.	37.4
FH - Front-High (60-80)	453.4	N.A.	15.0
FVH - Front-Very High (80-90)	34.0	N.A.	1.1
BL - Back-Low (0-30)	283.3	N.A.	9.4
BM - Back-Medium (30-60)	507.5	N.A.	16.8
BH - Back-High (60-80)	177.1	N.A.	5.9
BVH - Back-Very High (80-90)	11.4	N.A.	0.4
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	3013.5	N.A.	100.0
BUG Rating	B1-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>10.0</u>	<u>15.0</u>	<u>20.0</u>	<u>25.0</u>	<u>30.0</u>	<u>35.0</u>	<u>40.0</u>
0.0	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640
2.5	853.470	853.470	854.775	859.995	863.910	863.910	859.995	853.470	852.165	853.470
5.0	876.960	876.960	879.570	882.180	883.485	883.485	876.960	870.435	866.520	866.520
7.5	903.060	903.060	904.365	905.670	903.060	900.450	895.230	892.620	892.620	897.840
10.0	921.330	921.330	920.025	917.415	914.805	920.025	925.245	929.160	925.245	923.940
12.5	940.905	940.905	938.295	933.075	938.295	948.735	951.345	946.125	939.600	938.295
15.0	964.395	964.395	959.175	953.955	961.785	970.920	960.480	957.870	963.090	965.700
17.5	1004.850	1007.460	1000.935	995.715	998.325	990.495	977.445	978.750	978.750	977.445
20.0	1067.490	1064.880	1057.050	1051.830	1049.220	1034.865	1023.120	1013.985	999.630	995.715
22.5	1113.165	1111.860	1101.420	1097.505	1085.760	1064.880	1062.270	1044.000	1025.730	1008.765
25.0	1158.840	1158.840	1149.705	1141.875	1123.605	1109.250	1089.675	1070.100	1046.610	1028.340
27.5	1199.295	1195.380	1186.245	1181.025	1153.620	1141.875	1119.690	1097.505	1067.490	1050.525
30.0	1225.395	1220.175	1212.345	1207.125	1178.415	1162.755	1143.180	1119.690	1098.810	1075.320
32.5	1222.785	1214.955	1208.430	1208.430	1192.770	1182.330	1164.060	1143.180	1123.605	1104.030
35.0	1191.465	1182.330	1181.025	1177.110	1177.110	1170.585	1169.280	1169.280	1149.705	1134.045
37.5	1124.910	1115.775	1118.385	1118.385	1128.825	1139.265	1153.620	1166.670	1170.585	1162.755
40.0	1030.950	1021.815	1028.340	1028.340	1045.305	1075.320	1114.470	1141.875	1175.805	1182.330
42.5	922.635	914.805	920.025	926.550	948.735	995.715	1047.915	1110.555	1158.840	1184.940
45.0	809.100	810.405	811.710	820.845	849.555	899.145	970.920	1055.745	1128.825	1167.975
47.5	708.615	711.225	711.225	730.800	759.510	809.100	886.095	980.055	1072.710	1134.045
50.0	615.960	617.265	614.655	638.145	664.245	717.750	805.185	901.755	1003.545	1079.235
52.5	529.830	532.440	529.830	549.405	583.335	634.230	722.970	824.760	921.330	991.800
55.0	452.835	455.445	455.445	477.630	507.645	561.150	644.670	745.155	831.285	890.010
57.5	381.060	384.975	384.975	404.550	435.870	486.765	570.285	665.550	739.935	786.915
60.0	315.810	317.115	315.810	335.385	366.705	414.990	494.595	580.725	643.365	695.565
62.5	255.780	255.780	258.390	270.135	301.455	349.740	420.210	493.290	549.405	600.300
65.0	200.970	202.275	204.885	215.325	242.730	285.795	351.045	414.990	461.970	506.340
67.5	155.295	156.600	159.210	167.040	190.530	229.680	285.795	341.910	384.975	418.905
70.0	118.755	118.755	121.365	129.195	148.770	180.090	229.680	274.050	310.590	340.605
72.5	88.740	88.740	91.350	96.570	113.535	139.635	180.090	214.020	245.340	272.745
75.0	65.250	65.250	66.555	71.775	83.520	104.400	137.025	163.125	189.225	210.105
77.5	45.675	46.980	46.980	50.895	61.335	75.690	100.485	118.755	139.635	156.600
80.0	31.320	31.320	32.625	35.235	41.760	52.200	70.470	82.215	97.875	109.620
82.5	19.575	19.575	20.880	22.185	27.405	33.930	45.675	53.505	62.640	70.470
85.0	10.440	10.440	11.745	11.745	14.355	19.575	24.795	28.710	33.930	39.150
87.5	3.915	3.915	3.915	5.220	6.525	7.830	10.440	11.745	13.050	14.355
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>45.0</u>	<u>50.0</u>	<u>55.0</u>	<u>60.0</u>	<u>65.0</u>	<u>70.0</u>	<u>75.0</u>	<u>80.0</u>	<u>85.0</u>	<u>90.0</u>
0.0	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640
2.5	854.775	852.165	850.860	849.555	846.945	844.335	843.030	840.420	837.810	835.200
5.0	865.215	865.215	861.300	861.300	859.995	858.690	856.080	856.080	852.165	848.250
7.5	901.755	899.145	895.230	891.315	886.095	883.485	876.960	873.045	869.130	861.300
10.0	921.330	918.720	912.195	909.585	905.670	901.755	896.535	892.620	887.400	879.570
12.5	944.820	948.735	942.210	938.295	933.075	927.855	918.720	913.500	906.975	897.840
15.0	968.310	967.005	963.090	961.785	956.565	951.345	940.905	930.465	920.025	910.890
17.5	981.360	987.885	983.970	976.140	970.920	960.480	951.345	935.685	920.025	909.585
20.0	991.800	991.800	990.495	985.275	983.970	981.360	976.140	961.785	948.735	930.465
22.5	995.715	993.105	993.105	999.630	998.325	994.410	990.495	973.530	952.650	930.465
25.0	1011.375	998.325	997.020	1000.935	1008.765	1006.155	1000.935	986.580	967.005	943.515
27.5	1032.255	1015.290	1006.155	1008.765	1015.290	1015.290	1003.545	991.800	969.615	944.820

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CANDELA TABULATION - (Cont.)

30.0	1046.610	1033.560	1020.510	1015.290	1013.985	1021.815	1015.290	999.630	976.140	948.735
32.5	1072.710	1053.135	1032.255	1025.730	1027.035	1032.255	1025.730	1011.375	987.885	951.345
35.0	1105.335	1072.710	1051.830	1042.695	1038.780	1045.305	1044.000	1025.730	998.325	957.870
37.5	1134.045	1093.590	1068.795	1058.355	1053.135	1063.575	1062.270	1040.085	1004.850	959.175
40.0	1158.840	1123.605	1089.675	1071.405	1064.880	1066.185	1070.100	1060.965	1027.035	974.835
42.5	1173.195	1141.875	1107.945	1079.235	1075.320	1085.760	1096.200	1087.065	1050.525	989.190
45.0	1170.585	1148.400	1117.080	1098.810	1092.285	1102.725	1115.775	1107.945	1068.795	998.325
47.5	1152.315	1137.960	1123.605	1109.250	1104.030	1107.945	1120.995	1123.605	1087.065	1015.290
50.0	1111.860	1114.470	1114.470	1104.030	1107.945	1118.385	1134.045	1136.655	1102.725	1024.425
52.5	1042.695	1067.490	1089.675	1105.335	1114.470	1119.690	1136.655	1141.875	1110.555	1030.950
55.0	955.260	1012.680	1062.270	1089.675	1101.420	1114.470	1134.045	1143.180	1109.250	1028.340
57.5	859.995	944.820	1007.460	1050.525	1070.100	1093.590	1118.385	1123.605	1093.590	1017.900
60.0	762.120	856.080	935.685	998.325	1027.035	1058.355	1080.540	1089.675	1063.575	985.275
62.5	661.635	764.730	853.470	930.465	968.310	1008.765	1028.340	1051.830	1024.425	948.735
65.0	566.370	665.550	758.205	845.640	896.535	943.515	973.530	993.105	973.530	900.450
67.5	473.715	562.455	655.110	743.850	815.625	867.825	901.755	918.720	900.450	840.420
70.0	387.585	460.665	552.015	643.365	713.835	771.255	805.185	823.455	803.880	752.985
72.5	310.590	371.925	452.835	537.660	596.385	653.805	682.515	696.870	675.990	638.145
75.0	242.730	292.320	357.570	430.650	480.240	523.305	542.880	553.320	532.440	503.730
77.5	182.700	220.545	268.830	328.860	368.010	398.025	405.855	408.465	392.805	369.315
80.0	129.195	157.905	191.835	237.510	264.915	284.490	287.100	283.185	271.440	254.475
82.5	83.520	101.790	126.585	153.990	172.260	184.005	184.005	181.395	170.955	163.125
85.0	45.675	54.810	71.775	83.520	92.655	100.485	99.180	96.570	93.960	87.435
87.5	16.965	20.880	27.405	31.320	32.625	36.540	35.235	35.235	32.625	31.320
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	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640
2.5	833.895	832.590	828.675	826.065	822.150	820.845	822.150	823.455	820.845	820.845
5.0	843.030	836.505	831.285	823.455	815.625	809.100	805.185	798.660	792.135	789.525
7.5	854.775	848.250	840.420	829.980	820.845	813.015	803.880	796.050	786.915	780.390
10.0	869.130	857.385	844.335	829.980	816.930	803.880	792.135	784.305	776.475	769.950
12.5	886.095	873.045	858.690	839.115	820.845	803.880	785.610	773.865	762.120	751.680
15.0	896.535	876.960	857.385	835.200	818.235	799.965	781.695	764.730	749.070	734.715
17.5	893.925	875.655	852.165	831.285	813.015	790.830	766.035	749.070	736.020	712.530
20.0	906.975	882.180	852.165	822.150	798.660	775.170	752.985	732.105	711.225	679.905
22.5	903.060	878.265	849.555	826.065	796.050	764.730	734.715	708.615	666.855	619.875
25.0	916.110	882.180	848.250	813.015	779.085	749.070	715.140	668.160	615.960	557.235
27.5	916.110	883.485	846.945	810.405	776.475	733.410	677.295	625.095	557.235	491.985
30.0	917.415	878.265	839.115	802.575	760.815	709.920	644.670	571.590	493.290	426.735
32.5	916.110	870.435	832.590	792.135	743.850	681.210	601.605	522.000	438.480	377.145
35.0	912.195	867.825	824.760	779.085	716.445	645.975	557.235	465.885	391.500	345.825
37.5	908.280	859.995	814.320	768.645	692.955	600.300	501.120	417.600	357.570	327.555
40.0	916.110	858.690	805.185	745.155	657.720	557.235	446.310	368.010	326.250	313.200
42.5	922.635	853.470	793.440	722.970	623.790	508.950	390.195	319.725	291.015	293.625
45.0	922.635	848.250	776.475	696.870	584.640	456.750	339.300	277.965	263.610	270.135
47.5	930.465	844.335	766.035	670.770	542.880	407.160	293.625	242.730	233.595	247.950
50.0	933.075	839.115	754.290	643.365	506.340	361.485	251.865	208.800	207.495	224.460
52.5	930.465	833.895	738.630	622.485	473.715	321.030	216.630	178.785	181.395	199.665
55.0	922.635	827.370	724.275	600.300	445.005	289.710	187.920	153.990	155.295	169.650
57.5	912.195	806.490	694.260	568.980	413.685	262.305	165.735	131.805	131.805	139.635
60.0	884.790	771.255	660.330	531.135	377.145	233.595	146.160	114.840	109.620	113.535
62.5	844.335	733.410	618.570	490.680	344.520	210.105	127.890	99.180	91.350	91.350
65.0	793.440	687.735	578.115	448.920	307.980	185.310	113.535	84.825	75.690	73.080

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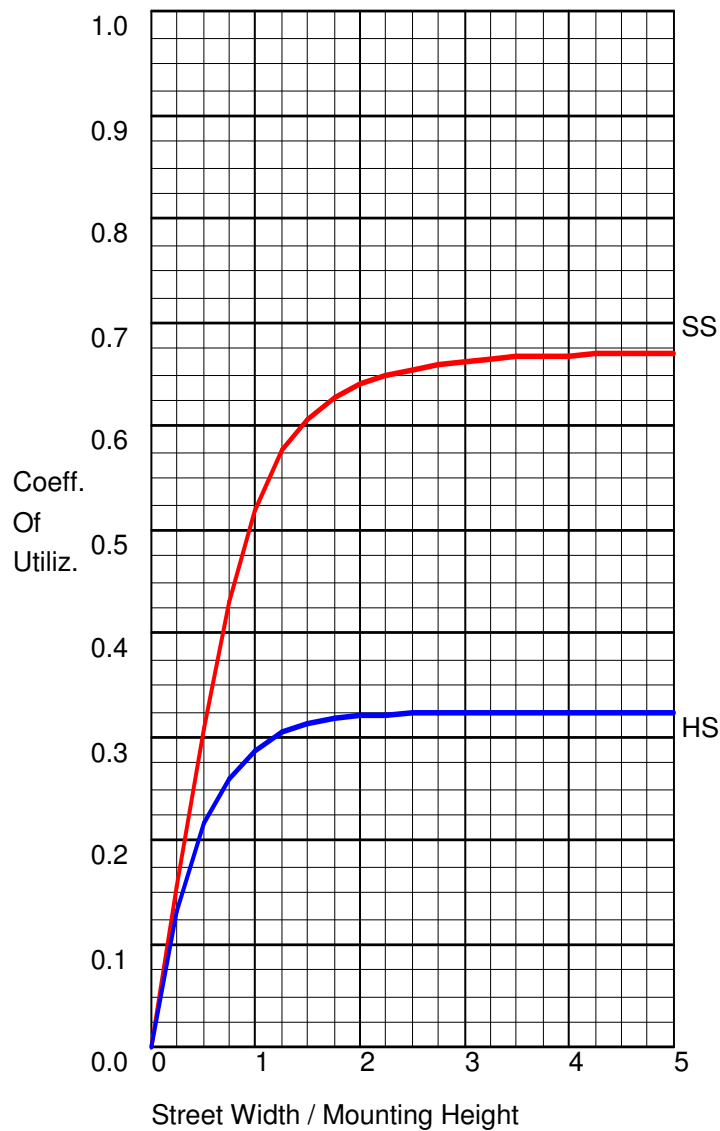
CANDELA TABULATION - (Cont.)

67.5	738.630	631.620	528.525	404.550	270.135	161.820	97.875	71.775	62.640	54.810
70.0	661.635	566.370	471.105	357.570	236.205	139.635	82.215	58.725	46.980	37.845
72.5	565.065	484.155	400.635	302.760	198.360	114.840	66.555	43.065	30.015	23.490
75.0	450.225	386.280	323.640	244.035	159.210	90.045	45.675	24.795	15.660	7.830
77.5	331.470	285.795	246.645	186.615	120.060	49.590	22.185	10.440	3.915	1.305
80.0	230.985	202.275	172.260	133.110	73.080	27.405	10.440	3.915	1.305	1.305
82.5	146.160	130.500	108.315	83.520	39.150	13.050	5.220	1.305	1.305	0.000
85.0	78.300	69.165	56.115	39.150	14.355	5.220	1.305	0.000	0.000	0.000
87.5	27.405	24.795	18.270	7.830	2.610	1.305	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>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	845.640	845.640	845.640	845.640	845.640	845.640	845.640	845.640
2.5	823.455	826.065	824.760	823.455	827.370	828.675	833.895	832.590
5.0	788.220	788.220	785.610	784.305	786.915	790.830	797.355	797.355
7.5	771.255	762.120	754.290	746.460	746.460	750.375	759.510	759.510
10.0	760.815	749.070	734.715	720.360	712.530	715.140	725.580	726.885
12.5	739.935	726.885	712.530	695.565	679.905	678.600	686.430	687.735
15.0	716.445	698.175	678.600	661.635	642.060	632.925	638.145	636.840
17.5	686.430	659.025	626.400	604.215	580.725	562.455	563.760	559.845
20.0	640.755	601.605	558.540	525.915	503.730	475.020	471.105	464.580
22.5	574.200	523.305	471.105	431.955	409.770	379.755	371.925	368.010
25.0	494.595	439.785	392.805	360.180	340.605	321.030	317.115	315.810
27.5	425.430	379.755	343.215	321.030	307.980	302.760	300.150	300.150
30.0	371.925	339.300	318.420	309.285	307.980	311.895	311.895	313.200
32.5	339.300	322.335	317.115	318.420	318.420	324.945	326.250	328.860
35.0	324.945	322.335	323.640	331.470	335.385	341.910	341.910	344.520
37.5	319.725	323.640	331.470	340.605	348.435	354.960	356.265	357.570
40.0	314.505	322.335	332.775	344.520	352.350	364.095	368.010	371.925
42.5	301.455	311.895	324.945	341.910	356.265	370.620	377.145	379.755
45.0	287.100	302.760	319.725	337.995	354.960	368.010	375.840	378.450
47.5	270.135	291.015	311.895	324.945	341.910	352.350	358.875	361.485
50.0	253.170	272.745	285.795	297.540	313.200	321.030	328.860	324.945
52.5	221.850	244.035	253.170	254.475	263.610	272.745	284.490	281.880
55.0	189.225	198.360	198.360	198.360	203.580	198.360	204.885	200.970
57.5	148.770	150.075	147.465	144.855	148.770	147.465	151.380	150.075
60.0	116.145	116.145	113.535	110.925	112.230	112.230	114.840	114.840
62.5	91.350	86.130	83.520	83.520	83.520	84.825	86.130	88.740
65.0	69.165	65.250	63.945	63.945	66.555	67.860	70.470	71.775
67.5	52.200	49.590	48.285	49.590	49.590	46.980	41.760	44.370
70.0	36.540	33.930	27.405	18.270	13.050	9.135	7.830	7.830
72.5	16.965	11.745	6.525	3.915	2.610	2.610	2.610	2.610
75.0	3.915	2.610	1.305	1.305	1.305	1.305	1.305	1.305
77.5	1.305	1.305	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

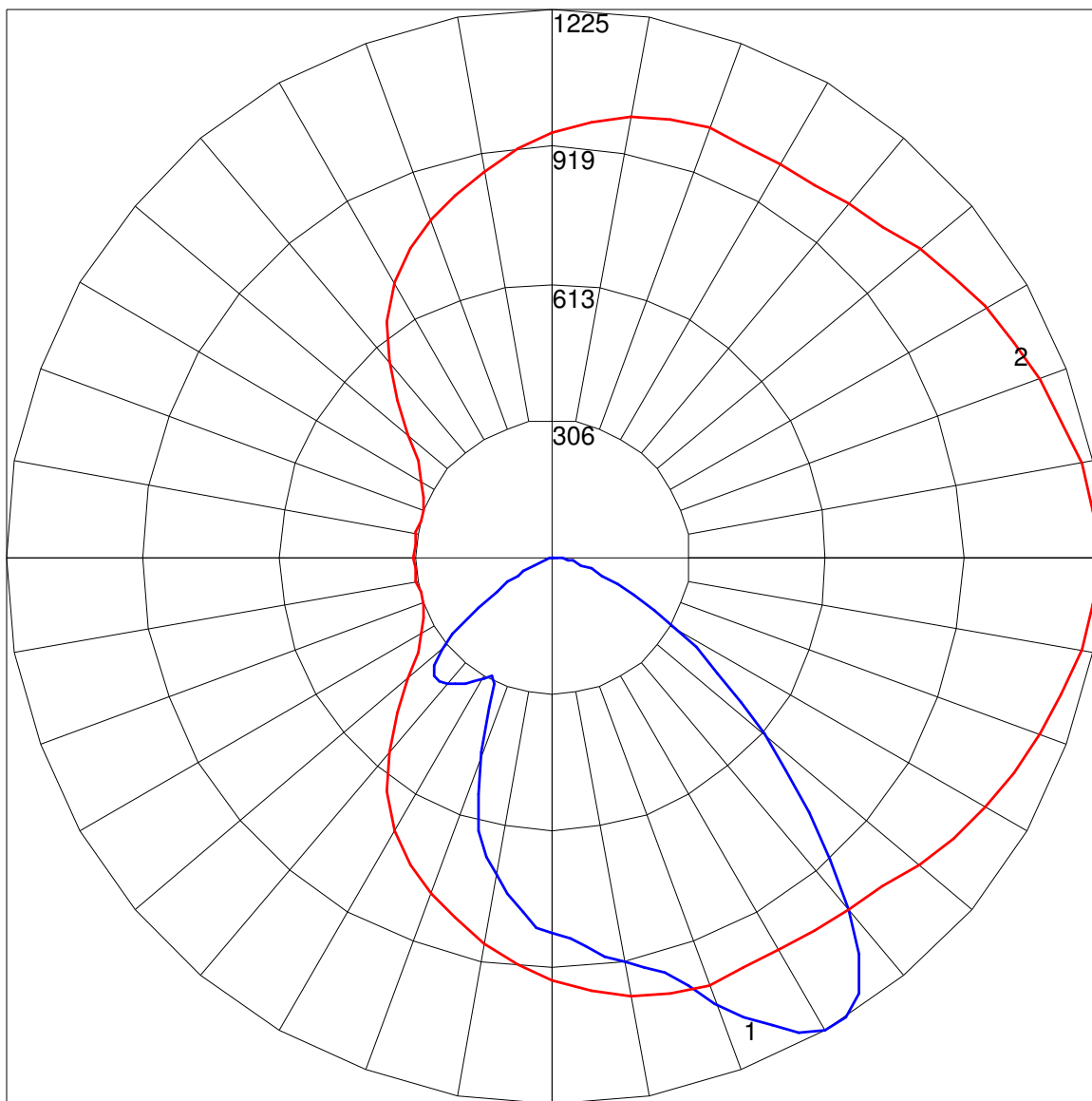
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

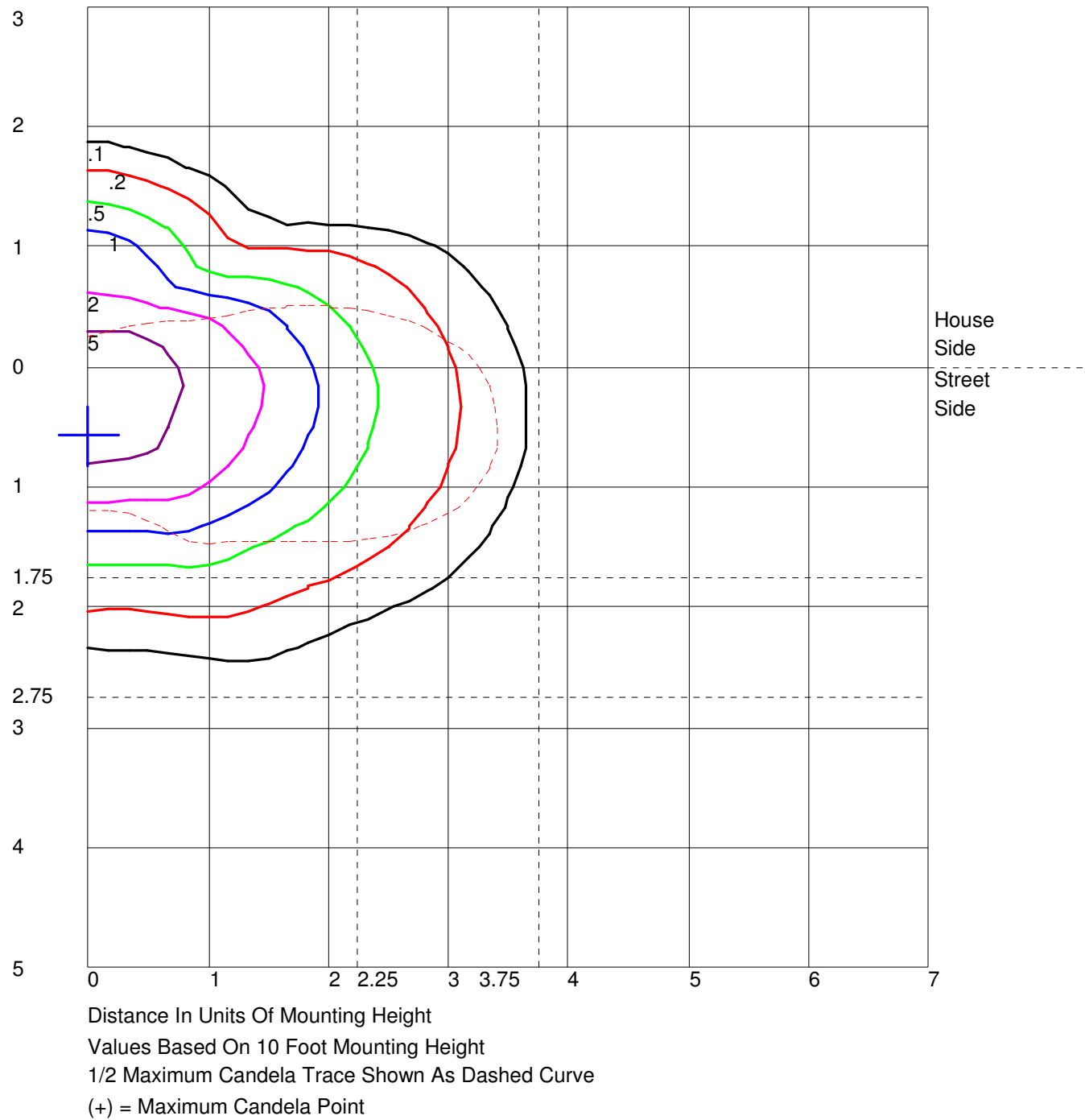
	Lumens	Percent Of Luminaire
Downward Street Side	2034.2	67.5
Downward House Side	979.4	32.5
Downward Total	3013.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3013.6	100.0

POLAR GRAPH

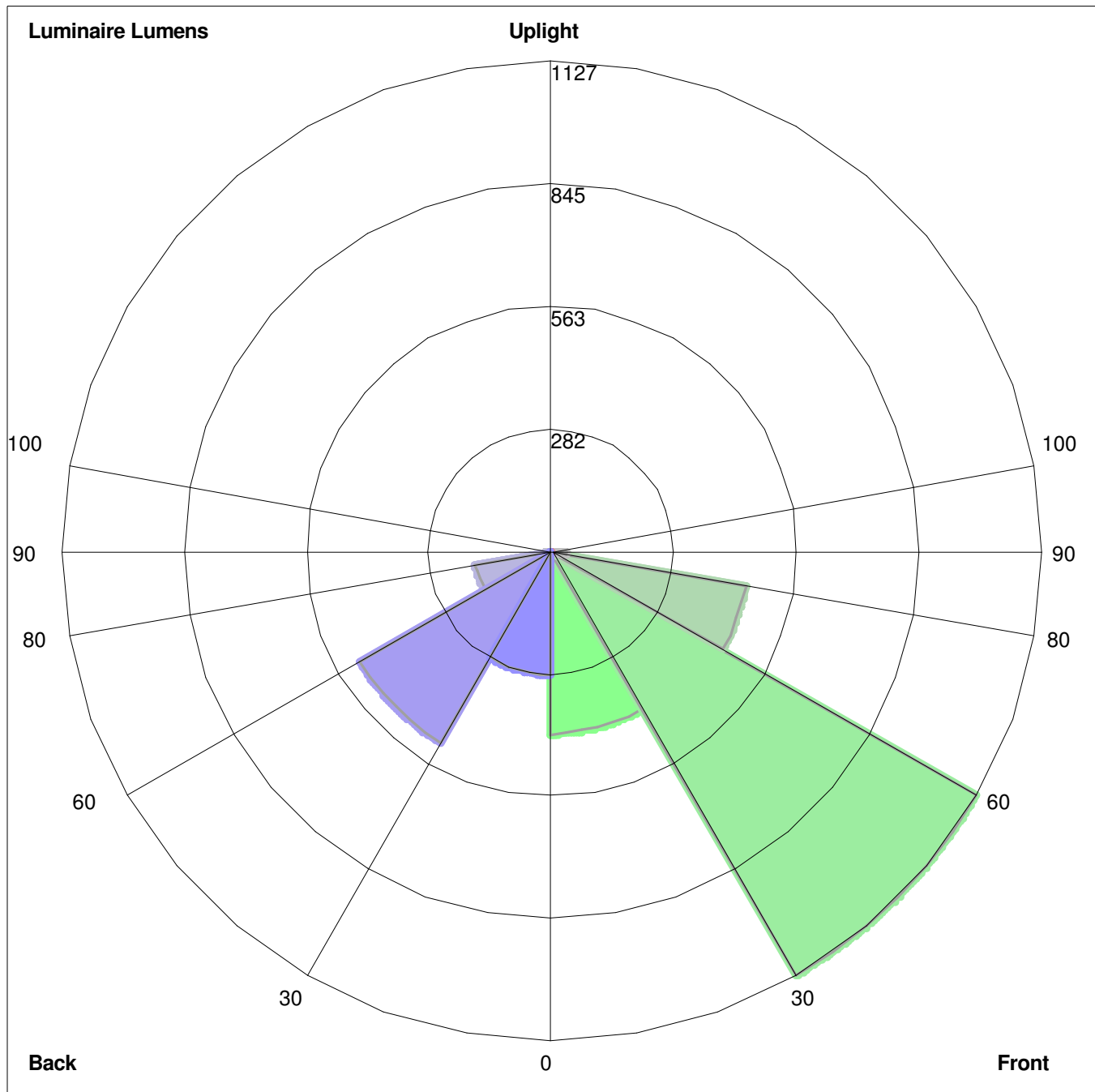


Maximum Candela = 1225.395 Located At Horizontal Angle = 0, Vertical Angle = 30
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=420.0, Medium=1126.8, High=453.4, Very High=34.0
Back: Low=283.3, Medium=507.5, High=177.1, Very High=11.4
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1