



IES ROAD REPORT

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

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]GEN FROM ATAL009833
[TESTLAB]ATAL-LABS
[ISSUEDATE] 6-DEC-2022
[MANUFAC]WILLIAMS OUTDOOR
[OTHER]H.E. WILLIAMS INC. - CARTHAGE, MO.
[LUMCAT]VWMH-L20-750-T3-CGL-xxx-DIM-UNV
[LUMINAIRE]VOLTAIRE HORIZONTAL MINI ARCHITECTURAL WALL PACK WITH TYPE
[MORE]III MOLDED REFRACTIVE CLEAR ACRYLIC LED LENS AND A CLEAR
[MORE]GLASS LENS.
[LAMP](4) LUXEON M 5000K LEDS
[BALLASTCAT]X1-LUC-024S050DSP
[BALLAST](1) INVENTRONICS ELECTRONIC DRIVER
[OTHER]INPUT WATTS: 27, AMPS: 0.2115, VAC: 120.04, TEMP: 25.4 C
[_SEARCH_SOURCE] 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	3050
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	27
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1287.72
Maximum Candela Angle	42.5H 50V
Maximum Candela (<90 Degrees Vertical)	1287.72
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	338.538 (11.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	406.6	N.A.	13.3
FM - Front-Medium (30-60)	1123.8	N.A.	36.9
FH - Front-High (60-80)	556.4	N.A.	18.2
FVH - Front-Very High (80-90)	17.7	N.A.	0.6
BL - Back-Low (0-30)	261.2	N.A.	8.6
BM - Back-Medium (30-60)	472.9	N.A.	15.5
BH - Back-High (60-80)	206.3	N.A.	6.8
BVH - Back-Very High (80-90)	4.8	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	3049.7	N.A.	100.0
BUG Rating	B1-U0-G1		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	<u>0.0</u>	<u>5.0</u>	<u>15.0</u>	<u>25.0</u>	<u>35.0</u>	<u>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	793.328	793.328	793.328	793.328	793.328	793.328	793.328	793.328	793.328	793.328
2.5	829.098	825.265	815.045	815.045	813.768	806.103	804.825	807.380	806.103	803.548
5.0	845.705	844.428	832.930	835.485	836.763	830.375	829.098	830.375	826.543	822.710
7.5	854.648	854.648	845.705	849.538	853.370	849.538	848.260	852.093	849.538	845.705
10.0	889.140	886.585	877.643	876.365	878.920	873.810	869.978	873.810	869.978	867.423
12.5	921.078	918.523	913.413	915.968	919.800	910.858	905.748	900.638	889.140	886.585
15.0	918.523	919.800	918.523	932.575	949.183	947.905	944.073	930.020	910.858	900.638
17.5	937.685	936.408	932.575	935.130	953.015	968.345	969.623	959.403	932.575	910.858
20.0	1013.058	1015.613	996.450	970.900	956.848	967.068	972.178	978.565	954.293	919.800
22.5	1105.038	1105.038	1069.268	1028.388	986.230	968.345	965.790	981.120	970.900	931.298
25.0	1188.075	1177.855	1129.310	1075.655	1022.000	986.230	976.010	974.733	978.565	940.240
27.5	1234.065	1227.678	1174.023	1108.870	1051.383	1013.058	1001.560	976.010	982.398	949.183
30.0	1255.783	1245.563	1193.185	1135.698	1076.933	1037.330	1028.388	988.785	986.230	954.293
32.5	1257.060	1248.118	1203.405	1157.415	1105.038	1064.158	1052.660	1005.393	992.618	958.125
35.0	1248.118	1240.453	1205.960	1182.965	1129.310	1092.263	1078.210	1018.168	1002.838	965.790
37.5	1200.850	1194.463	1190.630	1195.740	1166.358	1116.535	1099.928	1024.555	1011.780	982.398
40.0	1080.765	1083.320	1126.755	1185.520	1208.515	1148.473	1125.478	1034.775	1018.168	1009.225
42.5	882.753	895.528	951.738	1135.698	1235.343	1182.965	1159.970	1044.995	1022.000	1033.498
45.0	702.625	711.568	766.500	973.455	1236.620	1228.955	1195.740	1052.660	1023.278	1056.493
47.5	615.755	622.143	669.410	794.605	1207.238	1272.390	1243.008	1061.603	1024.555	1076.933
50.0	550.603	555.713	604.258	733.285	1069.268	1287.720	1269.835	1066.713	1028.388	1093.540
52.5	495.670	500.780	542.938	706.458	945.350	1231.510	1239.175	1093.540	1057.770	1120.368
55.0	459.900	466.288	507.168	674.520	908.303	1039.885	1120.368	1142.085	1082.043	1140.808
57.5	424.130	430.518	467.565	642.583	862.313	880.198	974.733	1194.463	1103.760	1147.195
60.0	360.255	362.810	399.858	596.593	792.050	788.218	877.643	1190.630	1092.263	1138.253
62.5	266.998	274.663	305.323	499.503	693.683	706.458	766.500	1133.143	1055.215	1120.368
65.0	148.190	158.410	199.290	384.528	574.875	622.143	660.468	1009.225	1037.330	1152.305
67.5	99.645	104.755	137.970	283.605	468.843	528.885	551.880	854.648	1057.770	1163.803
70.0	67.708	70.263	102.200	217.175	362.810	430.518	448.403	728.175	1101.205	1165.080
72.5	47.268	48.545	70.263	158.410	259.333	325.763	344.925	617.033	1047.550	1062.880
75.0	34.493	34.493	48.545	113.698	168.630	228.673	237.615	429.240	914.690	913.413
77.5	24.273	24.273	31.938	74.095	103.478	137.970	144.358	264.443	732.008	651.525
80.0	15.330	16.608	19.163	44.713	60.043	66.430	77.928	189.070	338.538	241.448
82.5	8.943	10.220	10.220	22.995	30.660	26.828	31.938	109.865	97.090	83.038
85.0	5.110	5.110	5.110	6.388	8.943	8.943	8.943	25.550	24.273	28.105
87.5	2.555	2.555	2.555	2.555	2.555	2.555	2.555	2.555	3.833	3.833
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>85.0</u>	<u>90.0</u>	<u>95.0</u>	<u>105.0</u>	<u>115.0</u>	<u>125.0</u>	<u>135.0</u>	<u>145.0</u>	<u>155.0</u>	<u>165.0</u>
0.0	793.328	793.328	793.328	793.328	793.328	793.328	793.328	793.328	793.328	793.328
2.5	797.160	795.883	792.050	788.218	783.108	779.275	774.165	771.610	772.888	771.610
5.0	812.490	808.658	802.270	792.050	779.275	767.778	753.725	743.505	738.395	733.285
7.5	832.930	826.543	817.600	800.993	780.553	758.835	737.118	717.955	706.458	696.238
10.0	854.648	844.428	832.930	809.935	783.108	755.003	724.343	700.070	686.018	673.243
12.5	872.533	859.758	845.705	815.045	781.830	748.615	715.400	692.405	675.798	657.913
15.0	884.030	869.978	852.093	813.768	776.720	740.950	711.568	682.185	654.080	624.698
17.5	890.418	873.810	854.648	808.658	765.223	734.563	702.625	661.745	610.645	563.378
20.0	894.250	875.088	852.093	799.715	752.448	723.065	679.630	615.755	532.718	447.125
22.5	898.083	875.088	849.538	790.773	740.950	705.180	641.305	537.828	387.083	293.825
25.0	900.638	873.810	844.428	780.553	732.008	680.908	586.373	415.188	268.275	246.558
27.5	904.470	875.088	841.873	771.610	720.510	647.693	498.225	289.993	258.055	264.443

IES ROAD REPORT

PHOTOMETRIC FILENAME : VVMH-L20-750-T3-XXX-CGL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

30.0	909.580	875.088	838.040	765.223	706.458	601.703	385.805	265.720	275.940	292.548
32.5	912.135	875.088	834.208	761.390	693.683	542.938	291.270	275.940	302.768	319.375
35.0	913.413	873.810	829.098	758.835	673.243	468.843	284.883	296.380	320.653	332.150
37.5	917.245	871.255	821.433	748.615	648.970	390.915	295.103	309.155	323.208	334.705
40.0	927.465	873.810	818.878	737.118	614.478	325.763	296.380	305.323	314.265	318.098
42.5	938.963	877.643	815.045	721.788	571.043	278.495	275.940	292.548	291.270	304.045
45.0	950.460	882.753	812.490	705.180	516.110	254.223	249.113	272.108	287.438	384.528
47.5	965.790	890.418	813.768	691.128	459.900	215.898	218.453	249.113	366.643	429.240
50.0	984.953	900.638	817.600	678.353	413.910	176.295	194.180	316.820	393.470	448.403
52.5	997.728	905.748	822.710	670.688	385.805	154.578	176.295	334.705	350.035	309.155
55.0	1024.555	924.910	840.595	683.463	381.973	143.080	187.793	231.228	166.075	164.798
57.5	1064.158	953.015	850.815	677.075	364.088	130.305	134.138	134.138	126.473	121.363
60.0	1064.158	965.790	866.145	657.913	330.873	121.363	112.420	113.698	108.588	102.200
62.5	1088.430	976.010	866.145	633.640	298.935	112.420	100.923	97.090	93.258	91.980
65.0	1126.755	986.230	854.648	582.540	269.553	102.200	91.980	83.038	83.038	88.148
67.5	1163.803	1009.225	868.700	588.928	237.615	91.980	76.650	71.540	72.818	86.870
70.0	1191.908	1028.388	882.753	614.478	208.233	81.760	60.043	54.933	52.378	44.713
72.5	1119.090	954.293	825.265	590.205	192.903	66.430	43.435	31.938	20.440	15.330
75.0	928.743	779.275	669.410	482.895	149.468	47.268	24.273	12.775	8.943	6.388
77.5	562.100	467.565	436.905	369.198	85.593	24.273	8.943	5.110	2.555	1.278
80.0	164.798	122.640	116.253	166.075	42.158	10.220	3.833	1.278	0.000	0.000
82.5	57.488	44.713	42.158	38.325	15.330	3.833	1.278	1.278	0.000	0.000
85.0	19.163	16.608	16.608	15.330	3.833	2.555	1.278	0.000	0.000	0.000
87.5	3.833	3.833	3.833	2.555	1.278	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

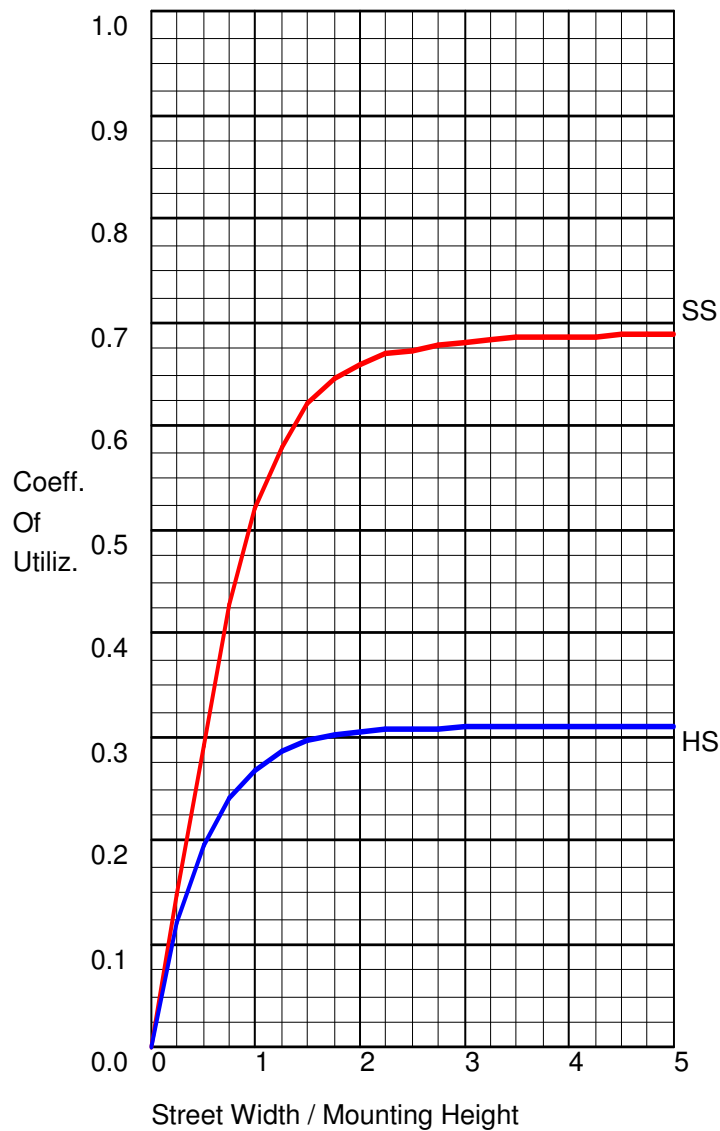
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	793.328	793.328
2.5	762.668	766.500
5.0	720.510	723.065
7.5	680.908	682.185
10.0	656.635	655.358
12.5	637.473	636.195
15.0	596.593	595.315
17.5	523.775	522.498
20.0	384.528	387.083
22.5	254.223	254.223
25.0	245.280	244.003
27.5	273.385	272.108
30.0	302.768	302.768
32.5	328.318	329.595
35.0	338.538	338.538
37.5	337.260	337.260
40.0	319.375	320.653
42.5	346.203	348.758
45.0	421.575	424.130
47.5	457.345	461.178
50.0	467.565	470.120
52.5	289.993	275.940
55.0	169.908	166.075
57.5	123.918	122.640
60.0	103.478	102.200
62.5	97.090	97.090
65.0	103.478	106.033

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWMH-L20-750-T3-XXX-CGL-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	97.090	98.368
70.0	25.550	25.550
72.5	14.053	14.053
75.0	5.110	6.388
77.5	0.000	0.000
80.0	0.000	0.000
82.5	0.000	0.000
85.0	0.000	0.000
87.5	0.000	0.000
90.0	0.000	0.000

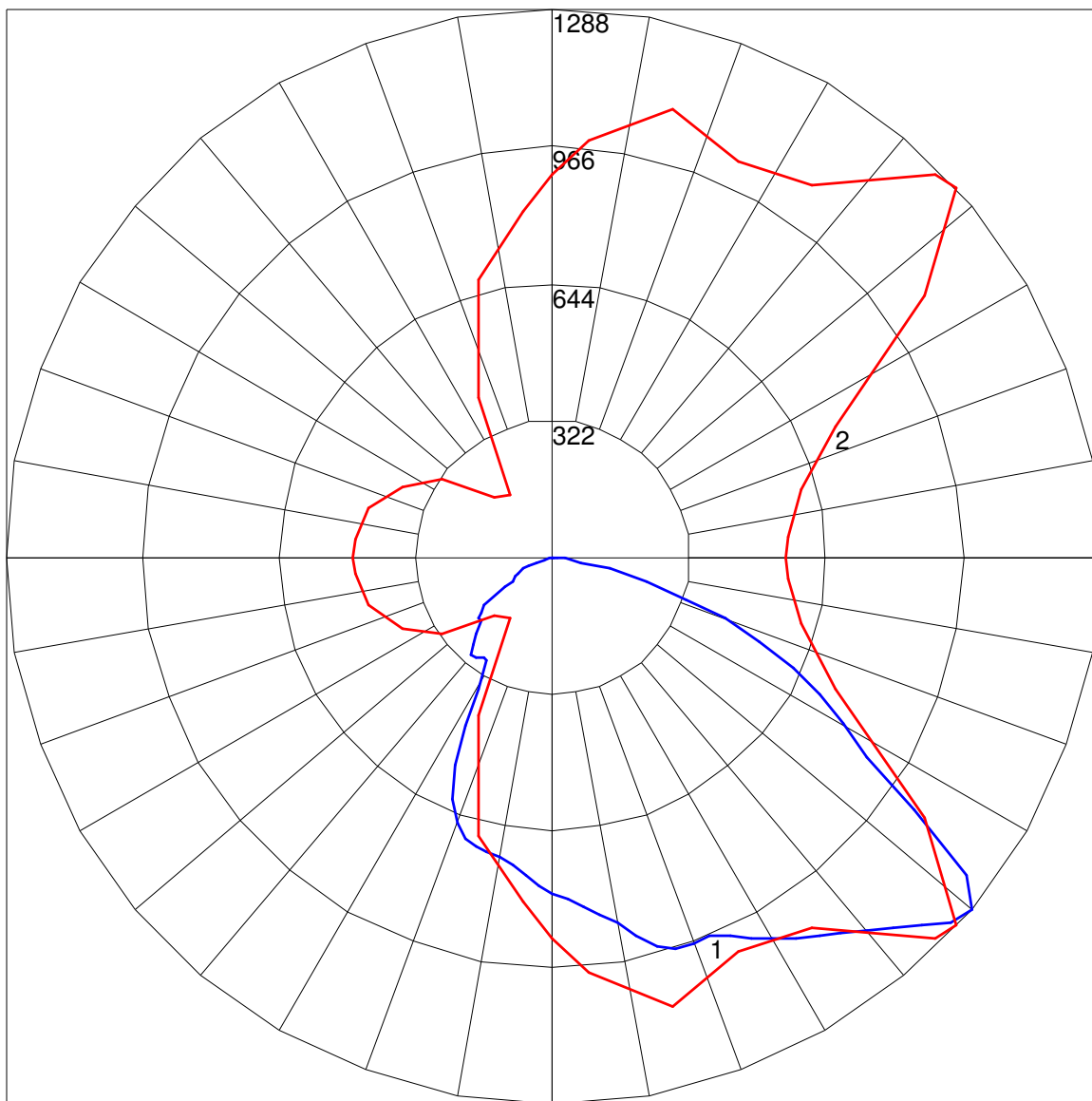
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

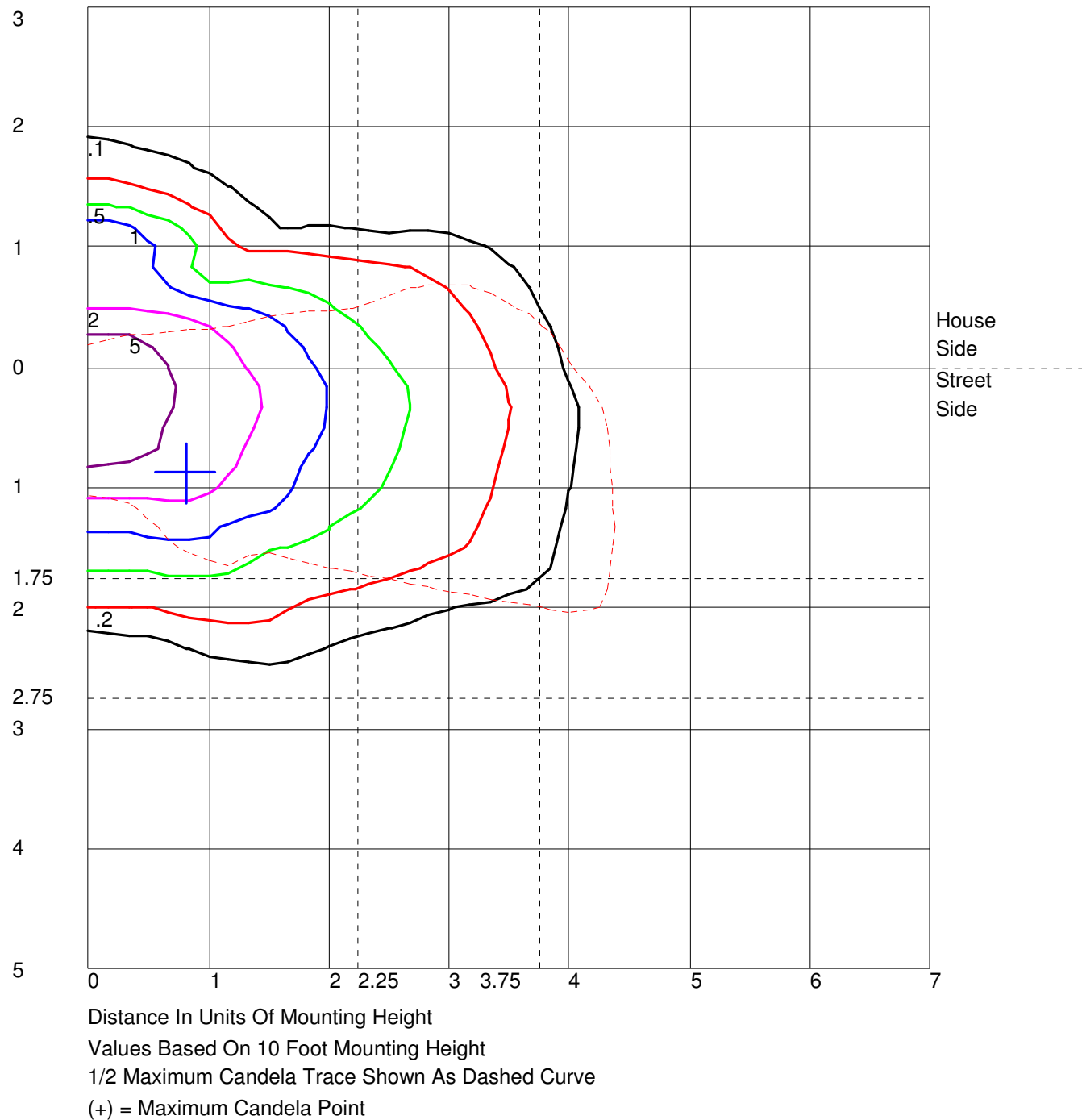
	Lumens	Percent Of Luminaire
Downward Street Side	2104.6	69.0
Downward House Side	945.3	31.0
Downward Total	3049.9	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3049.9	100.0

POLAR GRAPH

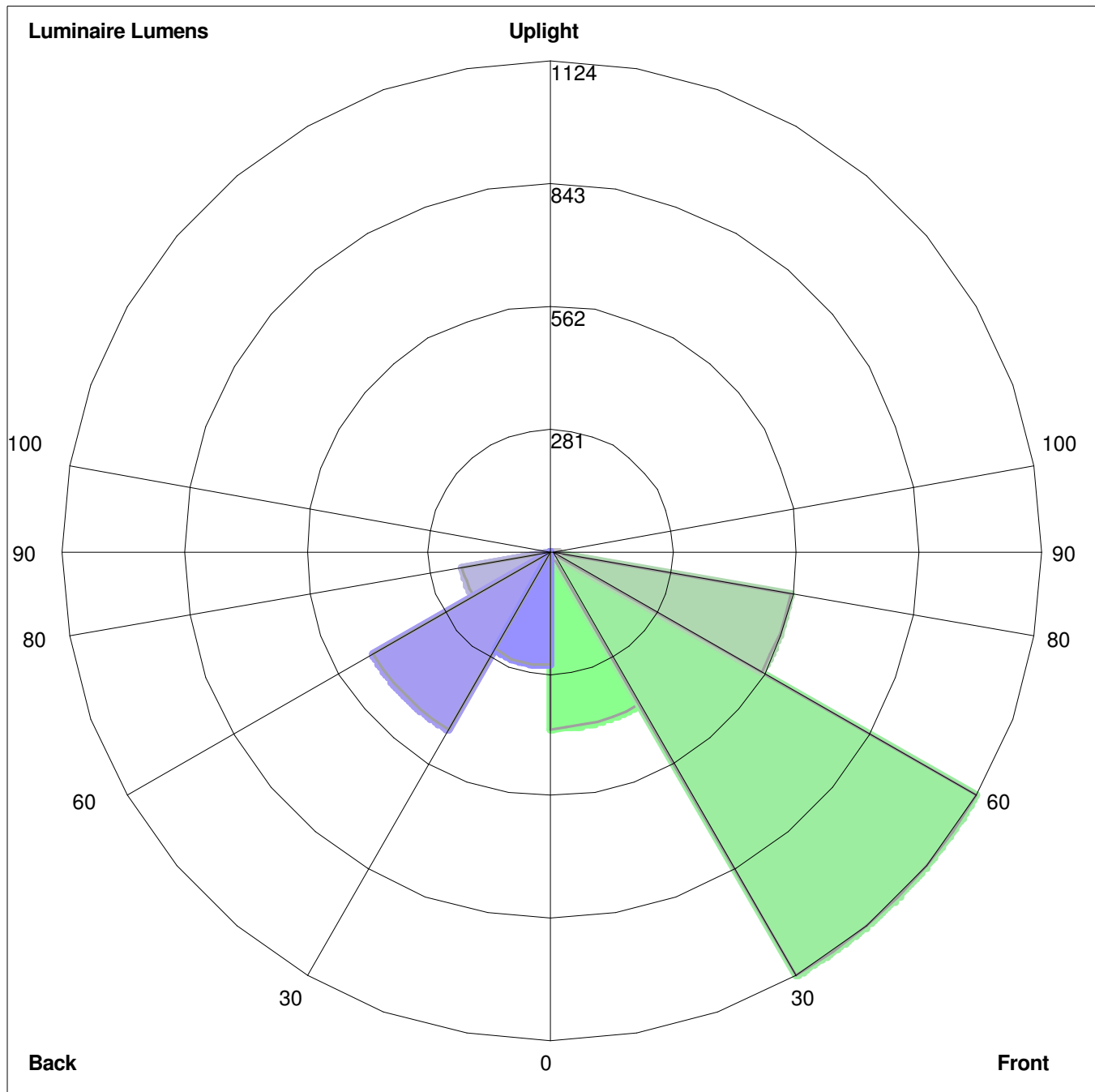


Maximum Candela = 1287.72 Located At Horizontal Angle = 42.5, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=406.6, Medium=1123.8, High=556.4, Very High=17.7
Back: Low=261.2, Medium=472.9, High=206.3, Very High=4.8
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1