



IES ROAD REPORT

PHOTOMETRIC FILENAME : VWMH-L20-730-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-L20-730-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.
[LAMPCAT]X4-LUXEON M 3000K
[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_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	2864
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	1209.298
Maximum Candela Angle	42.5H 50V
Maximum Candela (<90 Degrees Vertical)	1209.298
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	317.92 (11.1% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWMH-L20-730-T3-XXX-CGL-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	381.9	N.A.	13.3
FM - Front-Medium (30-60)	1055.4	N.A.	36.8
FH - Front-High (60-80)	522.5	N.A.	18.2
FVH - Front-Very High (80-90)	16.6	N.A.	0.6
BL - Back-Low (0-30)	245.3	N.A.	8.6
BM - Back-Medium (30-60)	444.1	N.A.	15.5
BH - Back-High (60-80)	193.8	N.A.	6.8
BVH - Back-Very High (80-90)	4.5	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	2864.1	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	745.014	745.014	745.014	745.014	745.014	745.014	745.014	745.014	745.014	745.014
2.5	778.605	775.006	765.409	765.409	764.209	757.011	755.811	758.210	757.011	754.611
5.0	794.201	793.002	782.204	784.604	785.803	779.805	778.605	779.805	776.206	772.607
7.5	802.599	802.599	794.201	797.800	801.400	797.800	796.601	800.200	797.800	794.201
10.0	834.991	832.592	824.194	822.994	825.394	820.595	816.996	820.595	816.996	814.596
12.5	864.984	862.584	857.785	860.185	863.784	855.386	850.587	845.788	834.991	832.592
15.0	862.584	863.784	862.584	875.781	891.377	890.177	886.578	873.382	855.386	845.788
17.5	880.580	879.380	875.781	878.180	894.976	909.373	910.572	900.975	875.781	855.386
20.0	951.362	953.761	935.766	911.772	898.575	908.173	912.972	918.970	896.176	863.784
22.5	1037.740	1037.740	1004.149	965.758	926.168	909.373	906.973	921.370	911.772	874.581
25.0	1115.721	1106.123	1060.535	1010.147	959.760	926.168	916.571	915.371	918.970	882.979
27.5	1158.910	1152.912	1102.524	1041.340	987.353	951.362	940.565	916.571	922.569	891.377
30.0	1179.305	1169.707	1120.520	1066.533	1011.347	974.156	965.758	928.568	926.168	896.176
32.5	1180.505	1172.107	1130.117	1086.928	1037.740	999.350	988.553	944.164	932.167	899.775
35.0	1172.107	1164.909	1132.517	1110.922	1060.535	1025.743	1012.547	956.161	941.764	906.973
37.5	1127.718	1121.719	1118.120	1122.919	1095.326	1048.538	1032.942	962.159	950.162	922.569
40.0	1014.946	1017.346	1058.135	1113.322	1134.916	1078.530	1056.936	971.757	956.161	947.763
42.5	828.993	840.990	893.776	1066.533	1160.110	1110.922	1089.328	981.355	959.760	970.557
45.0	659.835	668.233	719.820	914.171	1161.310	1154.111	1122.919	988.553	960.960	992.152
47.5	578.255	584.254	628.643	746.213	1133.716	1194.901	1167.308	996.951	962.159	1011.347
50.0	517.071	521.869	567.458	688.628	1004.149	1209.298	1192.502	1001.749	965.758	1026.943
52.5	465.484	470.282	509.872	663.434	887.778	1156.511	1163.709	1026.943	993.352	1052.137
55.0	431.892	437.890	476.281	633.442	852.987	976.556	1052.137	1072.532	1016.146	1071.332
57.5	398.300	404.299	439.090	603.449	809.797	826.593	915.371	1121.719	1036.541	1077.331
60.0	338.315	340.715	375.506	560.260	743.814	740.215	824.194	1118.120	1025.743	1068.933
62.5	250.737	257.935	286.728	469.083	651.437	663.434	719.820	1064.134	990.952	1052.137
65.0	139.165	148.763	187.153	361.110	539.865	584.254	620.245	947.763	974.156	1082.129
67.5	93.577	98.375	129.568	266.333	440.290	496.676	518.270	802.599	993.352	1092.927
70.0	63.584	65.983	95.976	203.949	340.715	404.299	421.095	683.829	1034.141	1094.126
72.5	44.389	45.589	65.983	148.763	243.539	305.923	323.919	579.455	983.754	998.150
75.0	32.392	32.392	45.589	106.773	158.360	214.746	223.144	403.099	858.985	857.785
77.5	22.794	22.794	29.992	69.583	97.176	129.568	135.566	248.338	687.428	611.847
80.0	14.396	15.596	17.995	41.989	56.386	62.384	73.182	177.556	317.920	226.743
82.5	8.398	9.598	9.598	21.595	28.793	25.194	29.992	103.174	91.177	77.980
85.0	4.799	4.799	4.799	5.998	8.398	8.398	8.398	23.994	22.794	26.393
87.5	2.399	2.399	2.399	2.399	2.399	2.399	2.399	2.399	3.599	3.599
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	745.014	745.014	745.014	745.014	745.014	745.014	745.014	745.014	745.014	745.014
2.5	748.613	747.413	743.814	740.215	735.416	731.817	727.018	724.619	725.818	724.619
5.0	763.009	759.410	753.412	743.814	731.817	721.020	707.823	698.225	693.427	688.628
7.5	782.204	776.206	767.808	752.212	733.017	712.622	692.227	674.231	663.434	653.836
10.0	802.599	793.002	782.204	760.610	735.416	709.023	680.230	657.436	644.239	632.242
12.5	819.395	807.398	794.201	765.409	734.216	703.024	671.832	650.237	634.641	617.845
15.0	830.192	816.996	800.200	764.209	729.418	695.826	668.233	640.640	614.246	586.653
17.5	836.191	820.595	802.599	759.410	718.620	689.827	659.835	621.445	573.457	529.068
20.0	839.790	821.794	800.200	751.012	706.623	679.030	638.240	578.255	500.275	419.895
22.5	843.389	821.794	797.800	742.614	695.826	662.234	602.249	505.074	363.509	275.931
25.0	845.788	820.595	793.002	733.017	687.428	639.440	550.662	389.902	251.937	231.542
27.5	849.388	821.794	790.602	724.619	676.631	608.248	467.883	272.332	242.339	248.338

IES ROAD REPORT

PHOTOMETRIC FILENAME : VVMH-L20-730-T3-XXX-CGL-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

30.0	854.186	821.794	787.003	718.620	663.434	565.059	362.309	249.538	259.135	274.731
32.5	856.586	821.794	783.404	715.021	651.437	509.872	273.532	259.135	284.329	299.925
35.0	857.785	820.595	778.605	712.622	632.242	440.290	267.533	278.330	301.125	311.922
37.5	861.385	818.195	771.407	703.024	609.448	367.108	277.131	290.327	303.524	314.321
40.0	870.982	820.595	769.008	692.227	577.056	305.923	278.330	286.728	295.126	298.725
42.5	881.779	824.194	765.409	677.830	536.266	261.535	259.135	274.731	273.532	285.529
45.0	892.577	828.993	763.009	662.234	484.679	238.740	233.941	255.536	269.932	361.110
47.5	906.973	836.191	764.209	649.038	431.892	202.749	205.149	233.941	344.314	403.099
50.0	924.969	845.788	767.808	637.041	388.703	165.559	182.354	297.526	369.508	421.095
52.5	936.966	850.587	772.607	629.842	362.309	145.164	165.559	314.321	328.718	290.327
55.0	962.159	868.583	789.403	641.839	358.710	134.366	176.356	217.146	155.961	154.761
57.5	999.350	894.976	799.000	635.841	341.914	122.369	125.968	125.968	118.770	113.971
60.0	999.350	906.973	813.397	617.845	310.722	113.971	105.574	106.773	101.974	95.976
62.5	1022.144	916.571	813.397	595.051	280.730	105.574	94.776	91.177	87.578	86.378
65.0	1058.135	926.168	802.599	547.063	253.137	95.976	86.378	77.980	77.980	82.779
67.5	1092.927	947.763	815.796	553.062	223.144	86.378	71.982	67.183	68.383	81.580
70.0	1119.320	965.758	828.993	577.056	195.551	76.781	56.386	51.587	49.188	41.989
72.5	1050.937	896.176	775.006	554.261	181.155	62.384	40.790	29.992	19.195	14.396
75.0	872.182	731.817	628.643	453.487	140.365	44.389	22.794	11.997	8.398	5.998
77.5	527.868	439.090	410.297	346.713	80.380	22.794	8.398	4.799	2.399	1.200
80.0	154.761	115.171	109.173	155.961	39.590	9.598	3.599	1.200	0.000	0.000
82.5	53.986	41.989	39.590	35.991	14.396	3.599	1.200	1.200	0.000	0.000
85.0	17.995	15.596	15.596	14.396	3.599	2.399	1.200	0.000	0.000	0.000
87.5	3.599	3.599	3.599	2.399	1.200	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

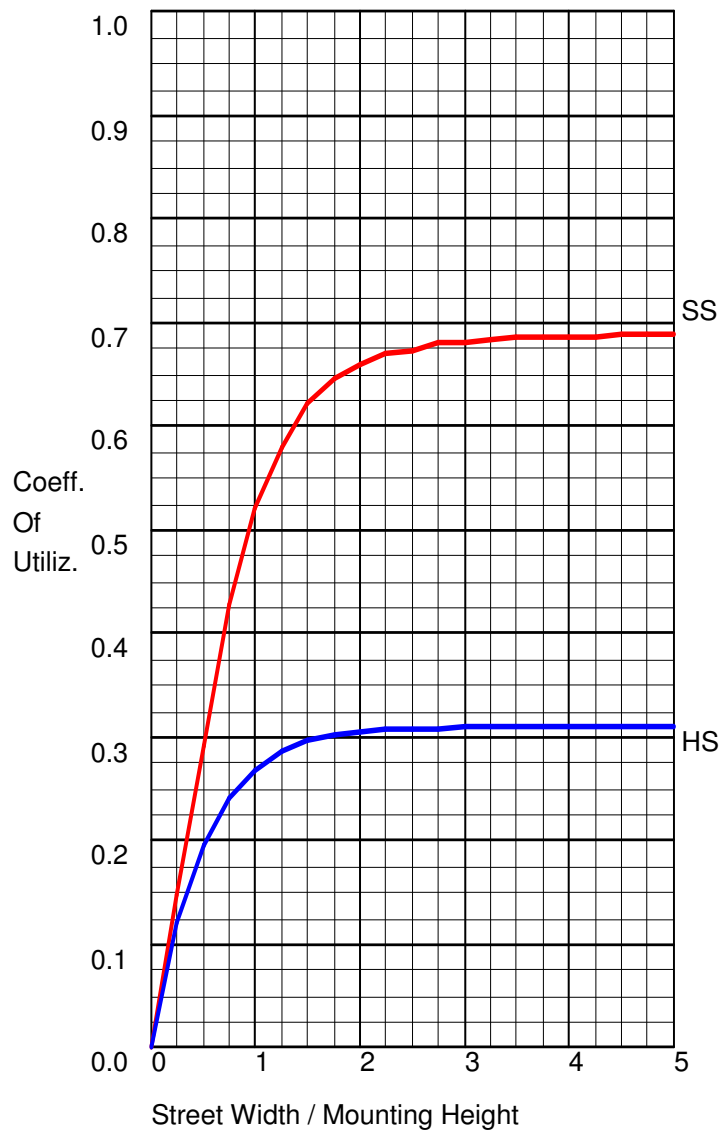
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	745.014	745.014
2.5	716.221	719.820
5.0	676.631	679.030
7.5	639.440	640.640
10.0	616.646	615.446
12.5	598.650	597.451
15.0	560.260	559.060
17.5	491.877	490.677
20.0	361.110	363.509
22.5	238.740	238.740
25.0	230.342	229.143
27.5	256.736	255.536
30.0	284.329	284.329
32.5	308.323	309.523
35.0	317.920	317.920
37.5	316.721	316.721
40.0	299.925	301.125
42.5	325.119	327.518
45.0	395.901	398.300
47.5	429.493	433.092
50.0	439.090	441.490
52.5	272.332	259.135
55.0	159.560	155.961
57.5	116.371	115.171
60.0	97.176	95.976
62.5	91.177	91.177
65.0	97.176	99.575

IES ROAD REPORT**PHOTOMETRIC FILENAME : VWMH-L20-730-T3-XXX-CGL-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	91.177	92.377
70.0	23.994	23.994
72.5	13.197	13.197
75.0	4.799	5.998
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

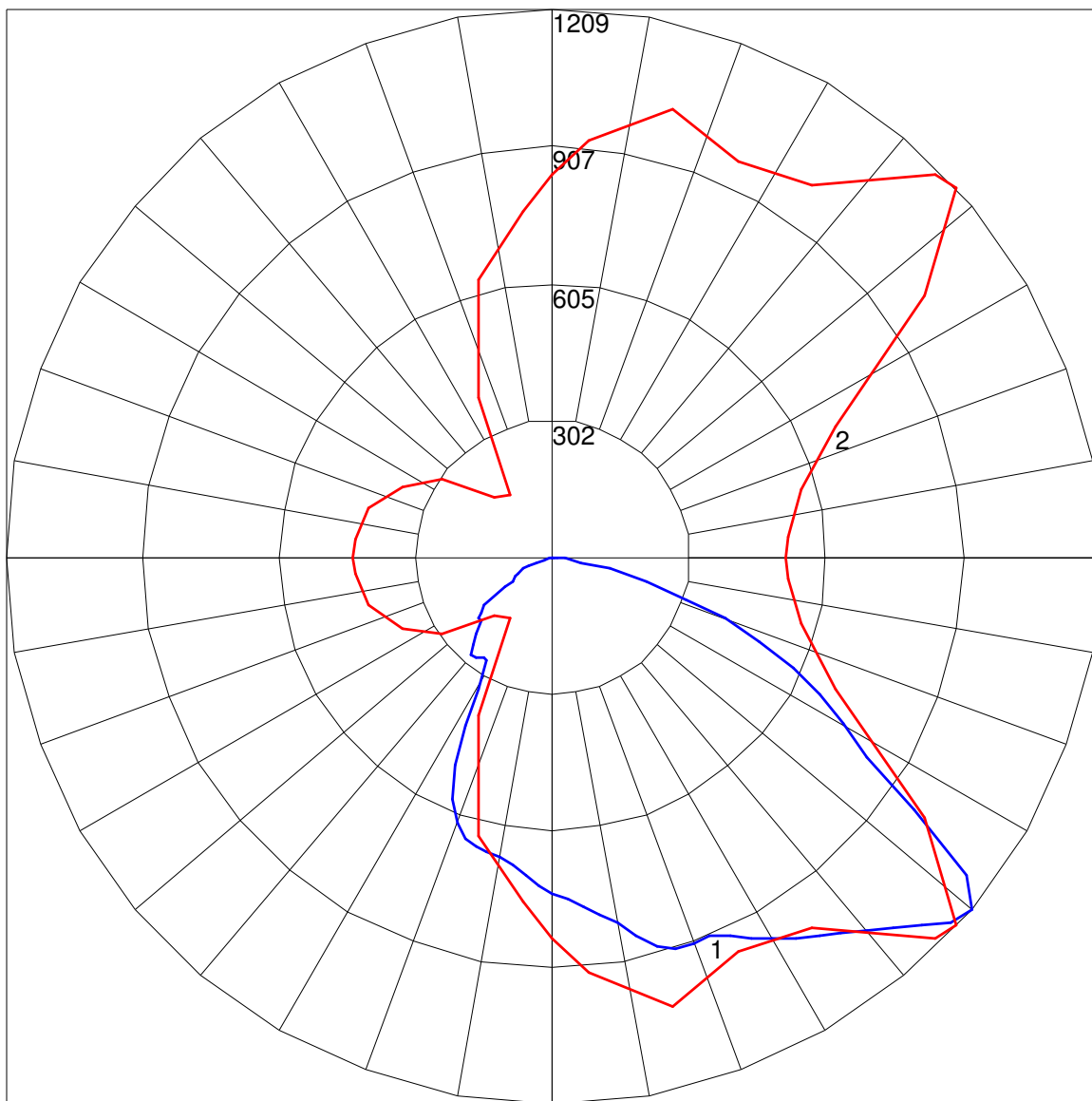
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

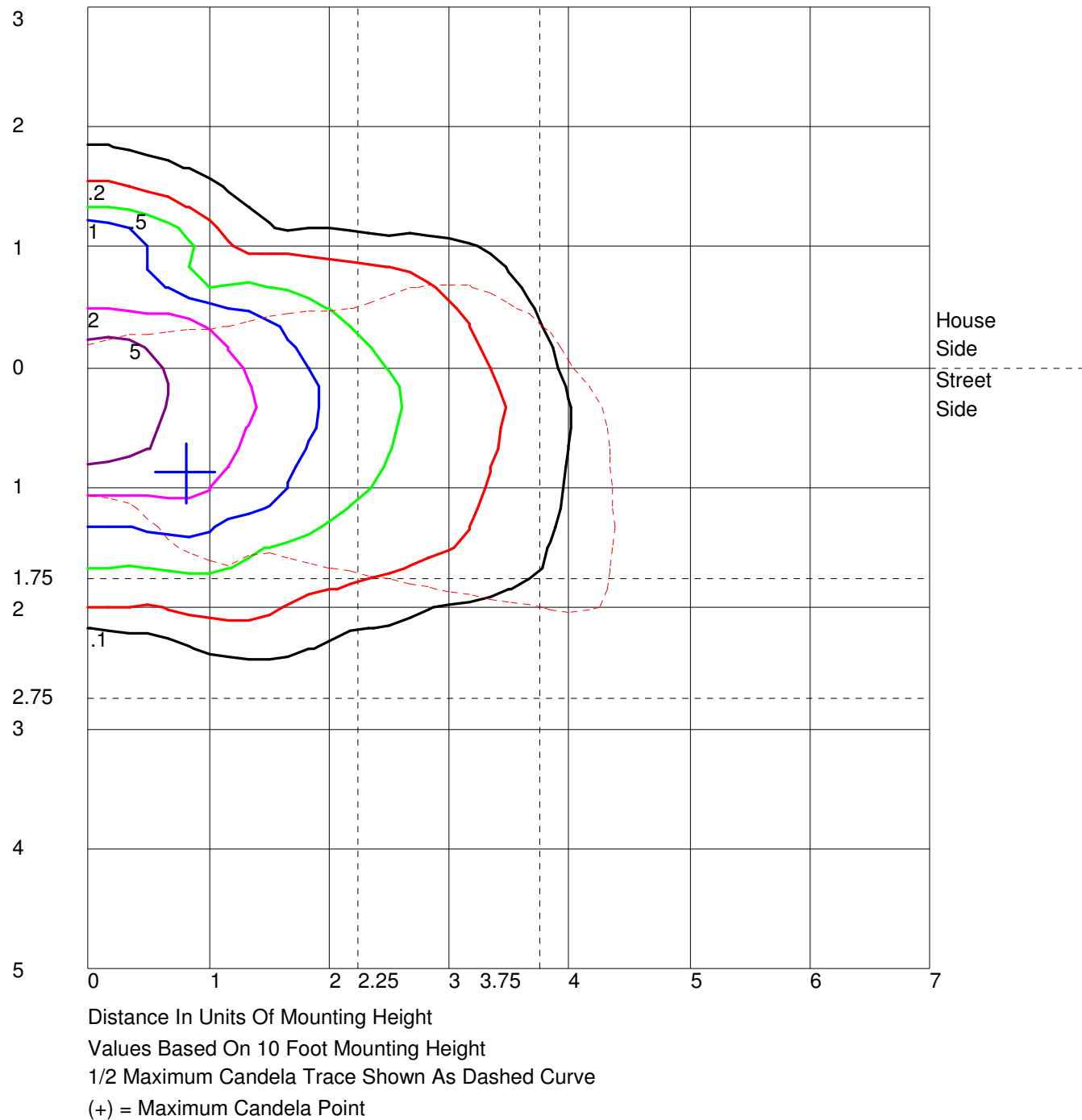
	Lumens	Percent Of Luminaire
Downward Street Side	1976.4	69.0
Downward House Side	887.7	31.0
Downward Total	2864.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2864.1	100.0

POLAR GRAPH

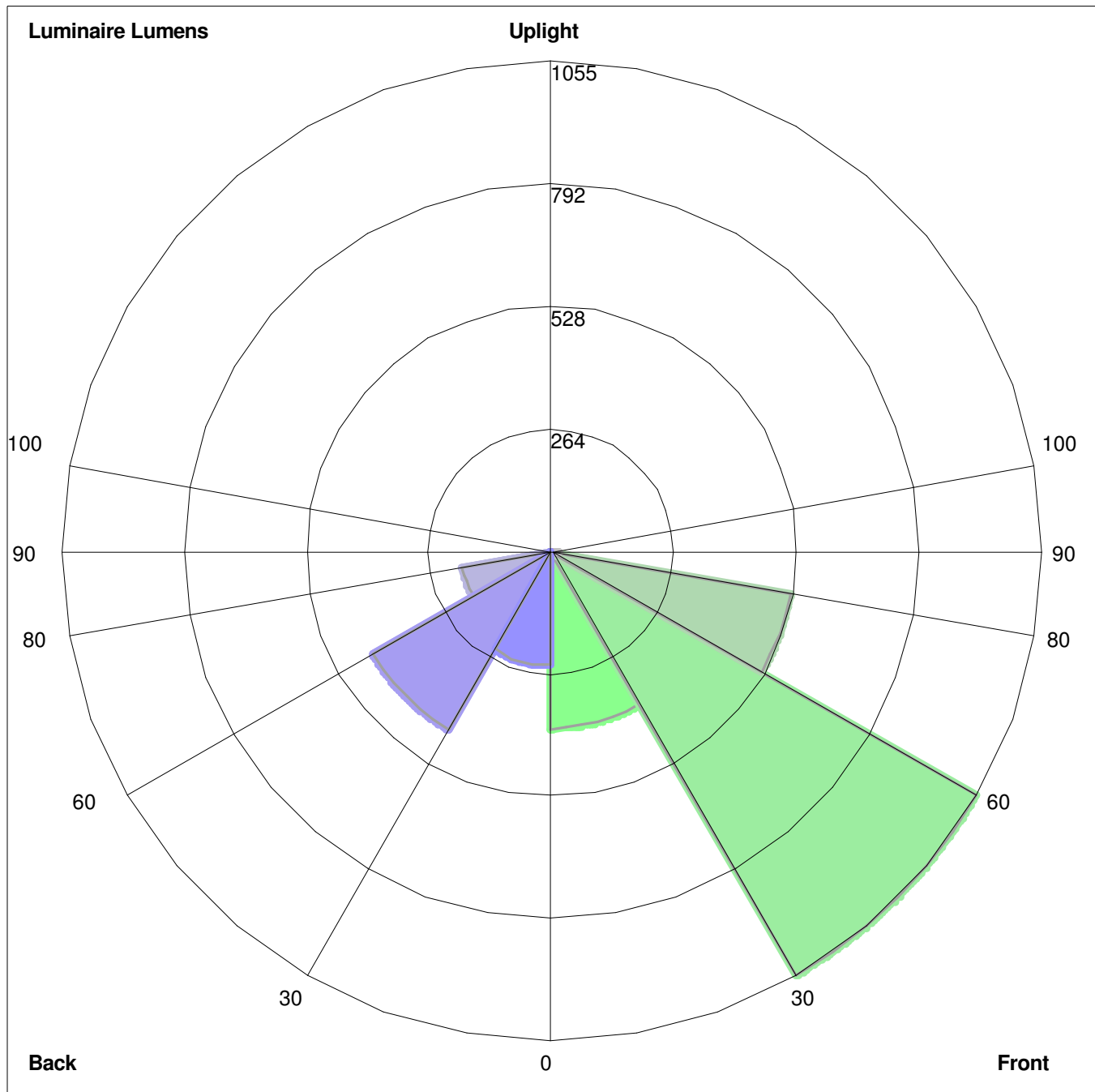


Maximum Candela = 1209.298 Located At Horizontal Angle = 42.5, Vertical Angle = 50
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (50) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=381.9, Medium=1055.4, High=522.5, Very High=16.6
Back: Low=245.3, Medium=444.1, High=193.8, Very High=4.5
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1