



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L30-730-T3-XX-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] ATAL009382-R2  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-11-06  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS INC. - CARTHAGE, MO.  
[LUMCAT] VG1-L30-730-T3-xx-xxx-DIM-UNV\_  
[LUMINAIRE] 13.5 x 16 INCH LED GARAGE LUMINAIRE  
[MORE] WITH TYPE III OPTIC AND CLEAR GLASS LENS  
[LAMPCAT] X12-LUXEON M LEDS  
[LAMP] (12) LUXEON M LEDS  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor, Architectural, Area, Canopy, Garage, Industrial, Parking, Site, Direct, Wet Location  
[SEARCH\_MOUNTING] Pendant, Surface  
[MANUFAC] WILLIAMS OUTDOOR

### CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3479
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	36
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1447.991
Maximum Candela Angle	82.5H 70V
Maximum Candela (<90 Degrees Vertical)	1447.991
Maximum Candela Angle (<90 Degrees Vertical)	82.5H 70V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	430.864 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VG1-L30-730-T3-XX-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	435.7	N.A.	12.5
FM - Front-Medium (30-60)	1242.4	N.A.	35.7
FH - Front-High (60-80)	666.7	N.A.	19.2
FVH - Front-Very High (80-90)	21.9	N.A.	0.6
BL - Back-Low (0-30)	288.3	N.A.	8.3
BM - Back-Medium (30-60)	538.8	N.A.	15.5
BH - Back-High (60-80)	272.1	N.A.	7.8
BVH - Back-Very High (80-90)	13.1	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	3479.0	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>45.0</b></u>	<u><b>55.0</b></u>	<u><b>65.0</b></u>	<u><b>75.0</b></u>	<u><b>82.5</b></u>
<b>0.0</b>	863.891	863.891	863.891	863.891	863.891	863.891	863.891	863.891	863.891	863.891
<b>2.5</b>	891.293	889.130	885.885	886.606	886.245	885.885	881.198	876.150	872.905	870.381
<b>5.0</b>	902.831	901.028	898.144	901.389	904.273	905.715	903.913	899.947	895.980	889.490
<b>7.5</b>	923.022	920.138	915.450	917.974	921.940	922.301	922.662	924.104	922.301	914.369
<b>10.0</b>	964.125	960.880	955.833	958.717	958.357	951.145	946.458	947.540	946.819	937.805
<b>12.5</b>	981.432	979.990	981.793	991.167	999.099	991.528	977.105	972.418	968.092	956.554
<b>15.0</b>	973.500	972.779	976.745	992.970	1015.324	1026.502	1011.719	999.099	987.201	970.976
<b>17.5</b>	998.378	996.215	991.528	996.575	1012.079	1038.039	1039.482	1025.059	1004.508	982.153
<b>20.0</b>	1064.720	1058.952	1047.414	1034.794	1022.896	1033.713	1051.019	1050.659	1021.093	991.888
<b>22.5</b>	1143.321	1133.947	1104.381	1080.224	1051.019	1032.992	1045.972	1065.081	1035.876	1001.263
<b>25.0</b>	1204.616	1200.289	1155.580	1117.001	1078.421	1044.890	1038.039	1072.653	1046.332	1008.834
<b>27.5</b>	1259.781	1253.291	1201.371	1145.124	1100.055	1064.360	1040.203	1075.537	1055.346	1016.045
<b>30.0</b>	1288.625	1281.054	1228.413	1174.690	1122.409	1085.633	1053.183	1077.340	1063.999	1022.175
<b>32.5</b>	1303.408	1294.394	1245.719	1196.684	1151.254	1106.545	1069.408	1082.748	1075.177	1027.223
<b>35.0</b>	1312.061	1303.408	1265.550	1225.168	1180.819	1130.341	1083.109	1091.041	1090.680	1034.434
<b>37.5</b>	1304.850	1296.918	1270.958	1251.128	1216.514	1155.941	1093.925	1097.170	1108.348	1043.448
<b>40.0</b>	1214.711	1206.419	1238.869	1260.863	1261.223	1186.588	1103.660	1101.858	1127.818	1056.428
<b>42.5</b>	1015.685	1009.195	1084.190	1236.345	1295.836	1221.923	1114.477	1105.824	1149.811	1078.421
<b>45.0</b>	832.523	835.768	905.715	1096.089	1314.585	1254.733	1129.260	1110.150	1170.003	1104.742
<b>47.5</b>	736.975	736.254	789.256	911.124	1293.313	1288.265	1146.566	1115.919	1185.146	1132.865
<b>50.0</b>	671.354	672.436	718.948	843.700	1189.112	1320.715	1167.118	1129.981	1199.568	1161.349
<b>52.5</b>	609.699	612.223	659.817	819.182	1061.836	1325.402	1210.385	1176.132	1239.229	1195.241
<b>55.0</b>	562.467	565.712	611.142	798.630	1022.175	1242.835	1269.516	1223.365	1283.938	1259.060
<b>57.5</b>	512.349	518.118	567.154	773.752	976.745	1080.224	1312.783	1274.203	1311.340	1330.089
<b>60.0</b>	443.123	447.449	506.941	724.356	911.484	983.956	1313.504	1278.890	1313.143	1336.219
<b>62.5</b>	360.916	360.555	412.836	630.972	820.264	871.463	1273.843	1251.488	1308.456	1369.390
<b>65.0</b>	252.028	251.307	303.948	510.907	702.362	740.220	1175.050	1245.359	1332.613	1393.186
<b>67.5</b>	150.352	154.678	187.849	376.420	577.610	620.516	1011.358	1256.896	1330.450	1427.439
<b>70.0</b>	111.051	114.296	142.419	281.594	449.252	508.023	858.483	1279.972	1341.988	1447.991
<b>72.5</b>	83.288	83.649	109.248	219.578	329.548	393.366	704.165	1230.576	1262.305	1333.334
<b>75.0</b>	59.131	59.131	80.043	163.692	228.232	281.233	508.383	1064.360	1098.973	1066.163
<b>77.5</b>	38.219	38.940	51.559	112.493	152.154	181.359	318.731	839.734	796.828	642.510
<b>80.0</b>	21.633	21.633	29.205	68.866	92.663	96.629	216.333	430.864	309.717	206.598
<b>82.5</b>	10.096	10.456	13.341	35.695	48.314	43.267	135.929	121.868	95.908	62.737
<b>85.0</b>	2.524	2.884	3.966	10.817	19.831	15.864	45.791	29.205	25.960	15.143
<b>87.5</b>	0.000	0.000	0.000	0.361	1.082	1.082	1.803	1.442	0.721	0.721
<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>	863.891	863.891	863.891	863.891	863.891	863.891	863.891	863.891	863.891	863.891
<b>2.5</b>	870.742	868.218	864.973	858.122	854.517	853.435	843.700	839.013	835.047	835.407
<b>5.0</b>	889.851	883.722	877.953	862.809	849.829	838.292	820.264	808.365	796.828	792.140
<b>7.5</b>	913.287	904.994	895.620	872.905	850.190	829.278	803.678	783.487	765.459	754.643
<b>10.0</b>	934.560	924.104	911.845	882.640	851.632	823.148	791.780	766.180	743.465	728.322
<b>12.5</b>	951.506	938.887	923.383	887.688	849.829	815.216	783.487	755.003	727.240	705.247
<b>15.0</b>	964.125	949.703	930.233	888.409	844.060	806.563	776.997	742.384	701.280	668.109
<b>17.5</b>	974.221	956.554	933.478	885.885	833.244	797.909	764.378	716.063	657.293	606.094
<b>20.0</b>	983.235	961.602	934.920	880.837	823.148	787.814	740.220	669.912	577.610	483.865
<b>22.5</b>	990.807	966.649	934.560	875.068	813.774	769.425	702.002	590.229	441.320	349.739
<b>25.0</b>	996.215	970.255	933.839	868.578	807.284	743.826	646.837	468.362	333.514	299.622
<b>27.5</b>	1001.984	972.779	933.118	863.170	800.433	710.294	563.909	358.392	310.438	307.193

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**CANDELA TABULATION - (Cont.)**

30.0	1007.032	972.418	931.315	857.762	788.174	667.388	461.872	325.942	324.861	340.004
32.5	1009.916	970.615	927.349	851.272	771.949	614.387	376.059	329.548	352.263	370.290
35.0	1015.685	971.697	923.022	846.224	750.677	553.813	356.950	346.854	367.406	374.978
37.5	1024.338	974.221	919.056	839.373	724.356	481.342	349.378	353.344	356.950	362.719
40.0	1034.073	976.745	915.090	826.754	692.267	402.740	340.725	340.725	340.725	364.522
42.5	1051.019	983.235	912.205	807.284	649.000	339.283	313.323	321.976	369.209	452.497
45.0	1071.932	992.970	912.927	789.977	593.474	293.853	275.104	314.404	434.830	484.226
47.5	1095.368	1008.113	920.138	778.079	532.901	244.096	239.769	374.978	444.565	493.961
50.0	1119.164	1024.338	930.233	773.392	487.471	204.074	220.299	391.924	431.585	438.796
52.5	1146.927	1040.924	945.016	779.882	470.525	175.951	234.001	332.432	273.301	249.144
55.0	1208.943	1088.156	981.432	801.515	465.838	156.842	195.782	184.965	165.495	165.134
57.5	1281.775	1146.927	1012.800	805.120	441.680	142.059	131.242	134.848	133.406	127.637
60.0	1293.313	1175.411	1046.332	798.270	408.870	129.439	113.575	113.575	117.181	113.575
62.5	1322.518	1179.016	1036.597	758.248	375.338	116.820	106.724	99.513	107.806	108.167
65.0	1344.151	1181.540	1018.930	720.750	342.167	104.922	96.989	89.778	99.874	113.214
67.5	1385.975	1211.827	1043.448	737.697	306.833	94.466	81.486	81.125	93.023	126.194
70.0	1415.180	1228.413	1052.822	762.214	281.233	86.173	70.308	71.029	93.384	135.929
72.5	1311.701	1148.369	983.595	725.438	251.668	74.635	59.852	62.016	96.629	132.324
75.0	1048.856	932.757	795.385	611.863	180.638	62.376	50.478	55.165	96.268	129.079
77.5	584.821	536.146	469.083	443.483	98.432	50.838	41.464	49.757	87.976	123.671
80.0	176.312	151.073	125.834	159.005	55.526	35.695	31.729	42.185	74.635	101.316
82.5	63.097	49.396	41.464	38.219	29.926	21.273	20.191	28.844	52.281	62.376
85.0	15.143	11.898	10.456	9.374	9.374	8.653	7.932	15.504	24.518	26.681
87.5	0.721	0.721	0.361	0.721	0.721	0.361	0.361	2.524	2.524	2.884
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**  
**Angles**

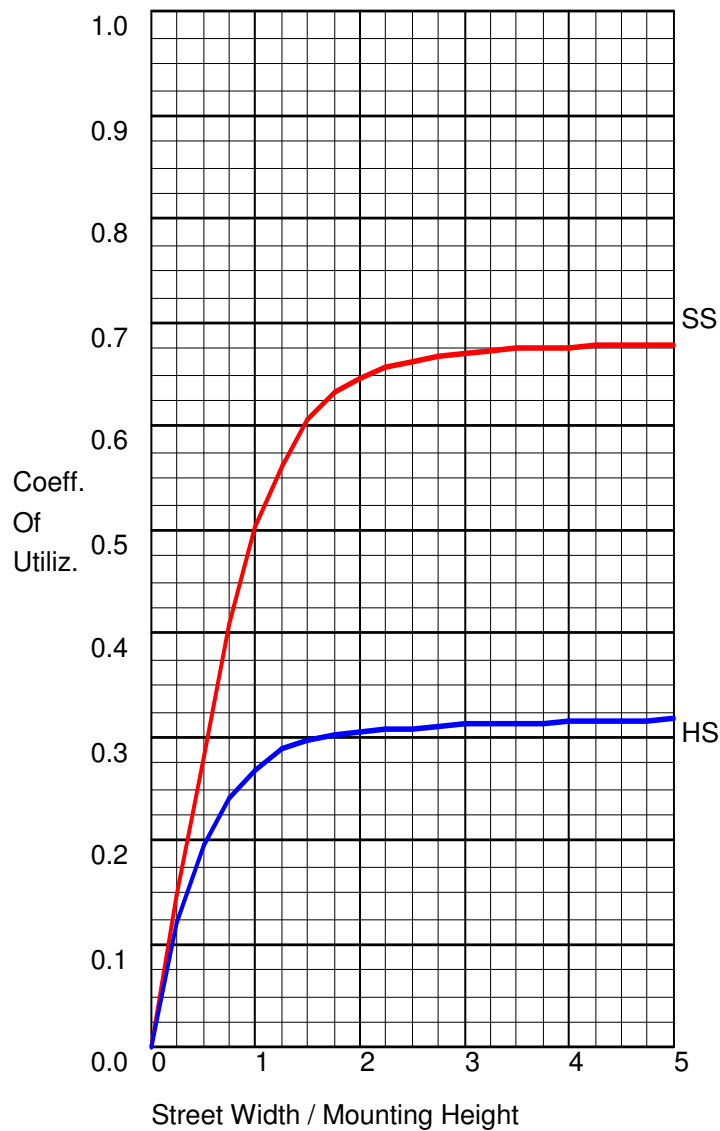
	<b>175.0</b>	<b>180.0</b>
0.0	863.891	863.891
2.5	828.917	825.672
5.0	783.487	780.603
7.5	744.908	742.384
10.0	716.784	714.621
12.5	689.382	686.137
15.0	644.673	640.347
17.5	567.514	569.678
20.0	429.422	431.585
22.5	311.881	311.520
25.0	290.247	289.166
27.5	312.962	312.241
30.0	347.215	347.936
32.5	376.780	375.699
35.0	376.059	375.338
37.5	366.685	366.324
40.0	419.326	426.537
42.5	489.634	497.206
45.0	508.023	513.070
47.5	518.479	522.445
50.0	435.190	421.129
52.5	257.076	252.028
55.0	172.706	169.461
57.5	129.079	127.637
60.0	114.657	113.936
62.5	114.296	116.459
65.0	130.161	133.766

**IES ROAD REPORT**  
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**CANDELA TABULATION - (Cont.)**

<b>67.5</b>	145.304	148.909
<b>70.0</b>	151.433	153.957
<b>72.5</b>	148.549	153.236
<b>75.0</b>	150.712	154.318
<b>77.5</b>	141.698	144.222
<b>80.0</b>	104.201	103.479
<b>82.5</b>	60.213	55.526
<b>85.0</b>	23.797	17.667
<b>87.5</b>	1.803	1.442
<b>90.0</b>	0.000	0.000

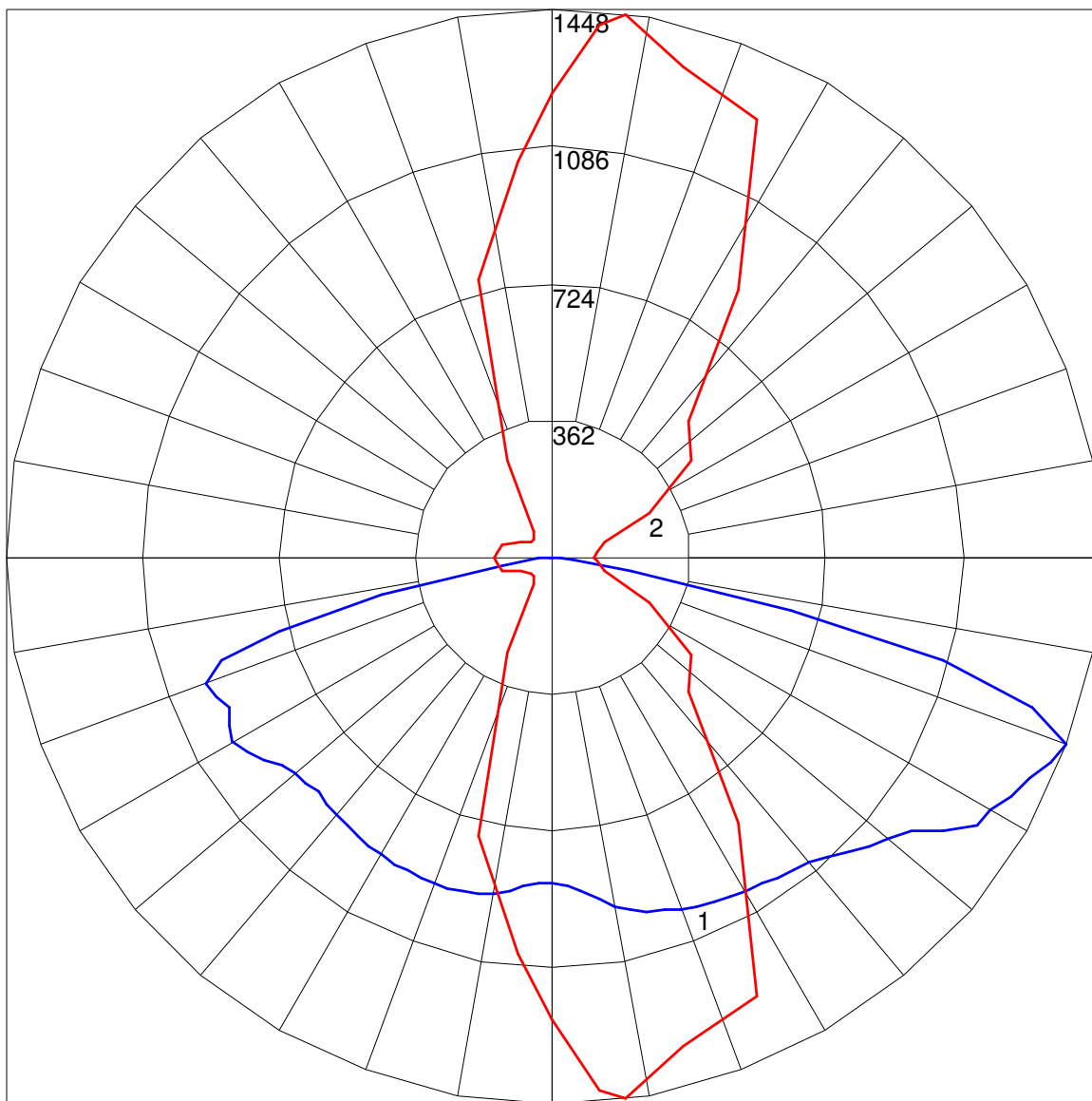
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

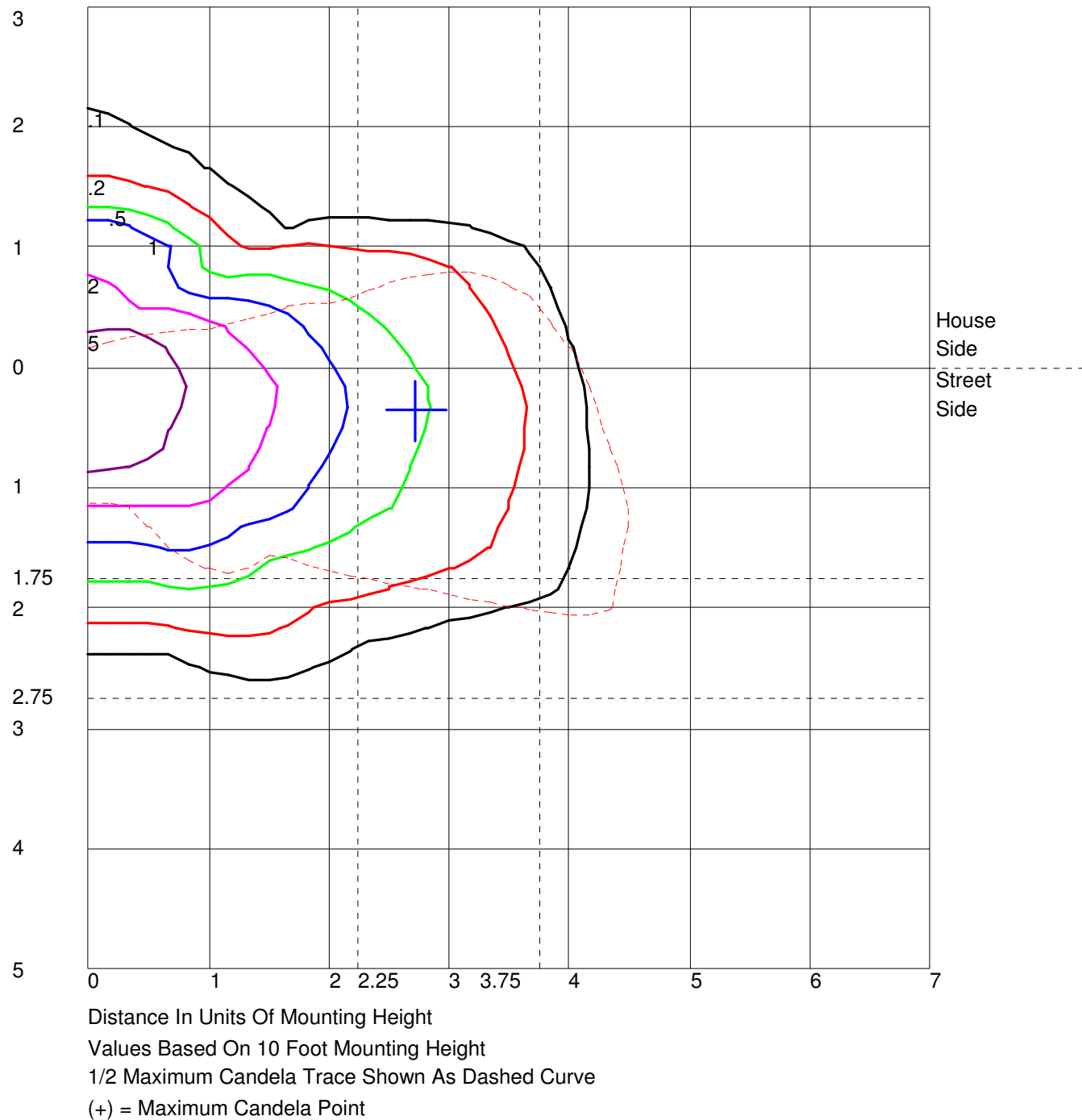
	Lumens	Percent Of Luminaire
Downward Street Side	2366.7	68.0
Downward House Side	1112.4	32.0
Downward Total	3479.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3479.1	100.0

POLAR GRAPH



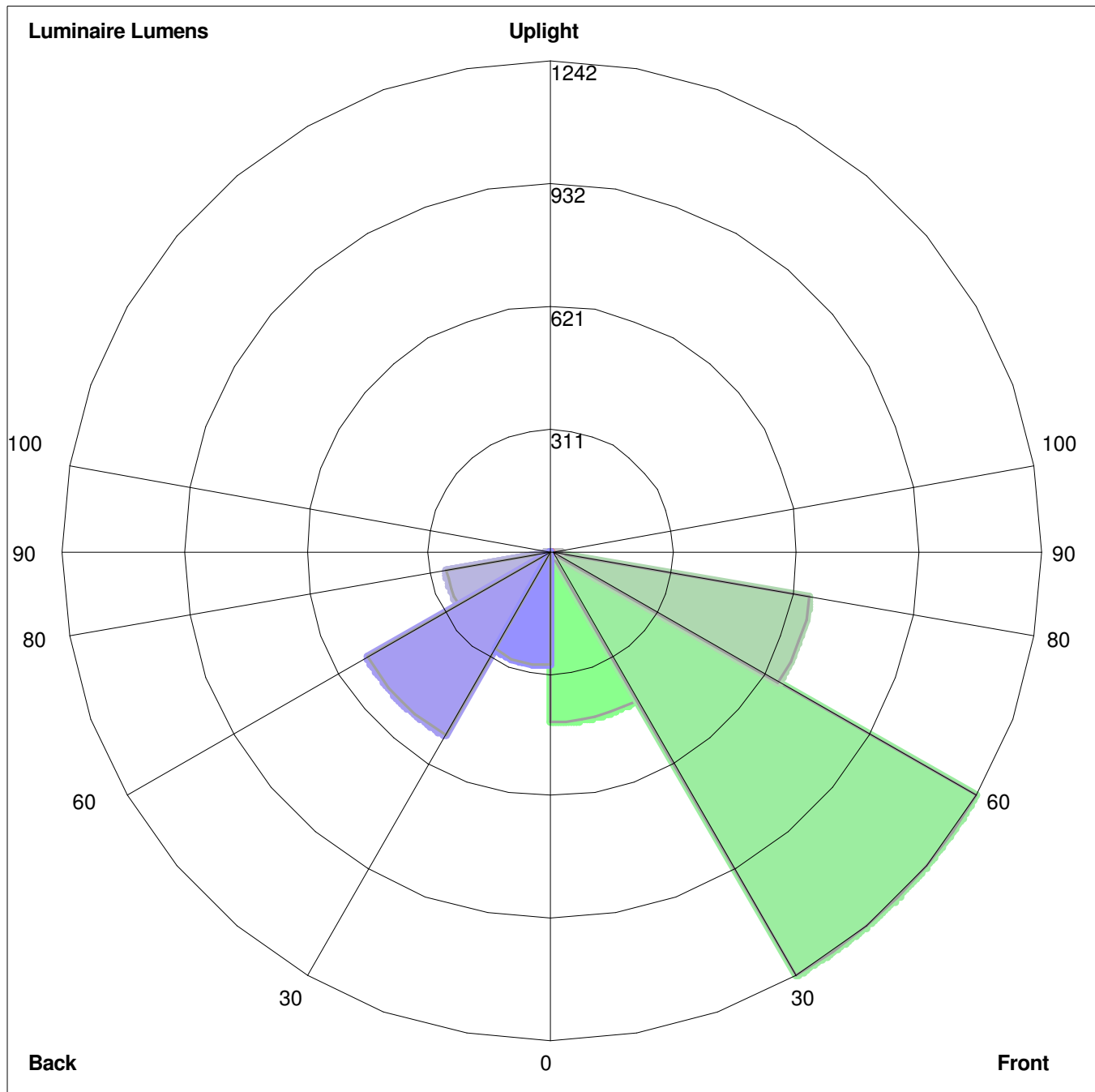
Maximum Candela = 1447.991 Located At Horizontal Angle = 82.5, Vertical Angle = 70  
# 1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=435.7, Medium=1242.4, High=666.7, Very High=21.9  
Back: Low=288.3, Medium=538.8, High=272.1, Very High=13.1  
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1