



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L30-740-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-L30-740-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	3780
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	36
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	1573.27
Maximum Candela Angle	82.5H 70V
Maximum Candela (<90 Degrees Vertical)	1573.27
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	468.142 (12.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L30-740-T3-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	473.4	N.A.	12.5
FM - Front-Medium (30-60)	1349.9	N.A.	35.7
FH - Front-High (60-80)	724.4	N.A.	19.2
FVH - Front-Very High (80-90)	23.8	N.A.	0.6
BL - Back-Low (0-30)	313.3	N.A.	8.3
BM - Back-Medium (30-60)	585.4	N.A.	15.5
BH - Back-High (60-80)	295.7	N.A.	7.8
BVH - Back-Very High (80-90)	14.3	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	3780.2	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>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>	<u>82.5</u>
0.0	938.634	938.634	938.634	938.634	938.634	938.634	938.634	938.634	938.634	938.634
2.5	968.407	966.057	962.531	963.315	962.923	962.531	957.438	951.954	948.428	945.686
5.0	980.943	978.985	975.851	979.376	982.510	984.077	982.119	977.809	973.500	966.449
7.5	1002.881	999.747	994.655	997.397	1001.706	1002.098	1002.490	1004.057	1002.098	993.479
10.0	1047.541	1044.015	1038.531	1041.665	1041.273	1033.438	1028.345	1029.520	1028.737	1018.943
12.5	1066.345	1064.778	1066.737	1076.922	1085.541	1077.314	1061.644	1056.551	1051.850	1039.314
15.0	1057.726	1056.943	1061.252	1078.881	1103.169	1115.314	1099.252	1085.541	1072.613	1054.984
17.5	1084.757	1082.407	1077.314	1082.798	1099.644	1127.850	1129.417	1113.747	1091.417	1067.128
20.0	1156.839	1150.571	1138.035	1124.324	1111.396	1123.149	1141.953	1141.561	1109.437	1077.706
22.5	1242.241	1232.055	1199.932	1173.685	1141.953	1122.365	1136.468	1157.231	1125.499	1087.891
25.0	1308.838	1304.137	1255.560	1213.643	1171.726	1135.293	1127.850	1165.458	1136.860	1096.118
27.5	1368.776	1361.725	1305.313	1244.200	1195.231	1156.448	1130.200	1168.592	1146.654	1103.953
30.0	1400.116	1391.890	1334.694	1276.323	1219.519	1179.561	1144.303	1170.551	1156.056	1110.613
32.5	1416.178	1406.384	1353.498	1300.220	1250.859	1202.282	1161.932	1176.427	1168.200	1116.097
35.0	1425.580	1416.178	1375.044	1331.168	1282.983	1228.138	1176.819	1185.437	1185.045	1123.932
37.5	1417.745	1409.127	1380.921	1359.374	1321.766	1255.952	1188.571	1192.097	1204.241	1133.726
40.0	1319.807	1310.797	1346.055	1369.952	1370.343	1289.251	1199.148	1197.190	1225.396	1147.829
42.5	1103.561	1096.510	1177.994	1343.313	1407.951	1327.642	1210.901	1201.499	1249.292	1171.726
45.0	904.552	908.078	984.077	1190.922	1428.322	1363.292	1226.963	1206.200	1271.230	1200.324
47.5	800.738	799.955	857.542	989.954	1405.209	1399.725	1245.767	1212.468	1287.684	1230.880
50.0	729.439	730.615	781.151	916.696	1291.993	1434.982	1268.096	1227.746	1303.354	1261.828
52.5	662.450	665.192	716.903	890.057	1153.705	1440.075	1315.106	1277.890	1346.447	1298.653
55.0	611.131	614.657	664.017	867.727	1110.613	1350.364	1379.354	1329.209	1395.024	1367.993
57.5	556.677	562.945	616.224	840.697	1061.252	1173.685	1426.364	1384.446	1424.797	1445.168
60.0	481.461	486.162	550.801	787.027	990.345	1069.087	1427.147	1389.539	1426.755	1451.827
62.5	392.142	391.751	448.554	685.563	891.232	946.861	1384.055	1359.766	1421.663	1487.868
65.0	273.834	273.050	330.246	555.110	763.130	804.264	1276.715	1353.106	1447.910	1513.724
67.5	163.360	168.061	204.102	408.988	627.584	674.203	1098.860	1365.642	1445.559	1550.940
70.0	120.659	124.185	154.741	305.957	488.121	551.976	932.758	1390.714	1458.095	1573.270
72.5	90.494	90.886	118.700	238.576	358.060	427.400	765.089	1337.045	1371.519	1448.693
75.0	64.247	64.247	86.969	177.855	247.978	305.565	552.368	1156.448	1194.056	1158.406
77.5	41.526	42.309	56.020	122.226	165.319	197.051	346.307	912.387	865.769	698.099
80.0	23.505	23.505	31.732	74.824	100.680	104.989	235.050	468.142	336.514	224.473
82.5	10.969	11.361	14.495	38.783	52.495	47.010	147.690	132.412	104.206	68.165
85.0	2.742	3.134	4.309	11.753	21.546	17.237	49.752	31.732	28.206	16.454
87.5	0.000	0.000	0.000	0.392	1.175	1.175	1.959	1.567	0.784	0.784
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	938.634	938.634	938.634	938.634	938.634	938.634	938.634	938.634	938.634	938.634
2.5	946.077	943.335	939.809	932.366	928.449	927.273	916.696	911.603	907.294	907.686
5.0	966.840	960.181	953.913	937.459	923.356	910.820	891.232	878.305	865.769	860.676
7.5	992.304	983.294	973.108	948.428	923.748	901.026	873.212	851.274	831.686	819.934
10.0	1015.417	1004.057	990.737	959.005	925.315	894.366	860.284	832.470	807.790	791.336
12.5	1033.830	1020.118	1003.273	964.490	923.356	885.748	851.274	820.326	790.161	766.264
15.0	1047.541	1031.871	1010.716	965.273	917.088	876.346	844.222	806.614	761.955	725.914
17.5	1058.510	1039.314	1014.242	962.531	905.335	866.944	830.511	778.017	714.161	658.533
20.0	1068.304	1044.799	1015.809	957.047	894.366	855.975	804.264	727.872	627.584	525.729
22.5	1076.530	1050.283	1015.417	950.778	884.181	835.996	762.738	641.296	479.503	379.998
25.0	1082.407	1054.201	1014.634	943.727	877.129	808.181	702.800	508.884	362.369	325.545
27.5	1088.675	1056.943	1013.850	937.851	869.686	771.749	612.698	389.400	337.297	333.771

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CANDELA TABULATION - (Cont.)

30.0	1094.159	1056.551	1011.892	931.974	856.367	725.130	501.832	354.142	352.967	369.421
32.5	1097.293	1054.592	1007.582	924.923	838.738	667.543	408.596	358.060	382.740	402.328
35.0	1103.561	1055.768	1002.881	919.438	815.625	601.729	387.833	376.864	399.194	407.421
37.5	1112.963	1058.510	998.572	911.995	787.027	522.987	379.606	383.916	387.833	394.101
40.0	1123.540	1061.252	994.263	898.284	752.161	437.585	370.204	370.204	370.204	396.060
42.5	1141.953	1068.304	991.129	877.129	705.151	368.637	340.431	349.833	401.153	491.647
45.0	1164.674	1078.881	991.912	858.325	644.821	319.277	298.906	341.606	472.451	526.121
47.5	1190.138	1095.334	999.747	845.398	579.007	265.215	260.514	407.421	483.028	536.698
50.0	1215.994	1112.963	1010.716	840.305	529.647	221.731	239.360	425.833	468.925	476.760
52.5	1246.158	1130.984	1026.778	847.356	511.234	191.174	254.246	361.194	296.947	270.700
55.0	1313.539	1182.303	1066.345	870.861	506.142	170.411	212.721	200.968	179.813	179.422
57.5	1392.673	1246.158	1100.427	874.779	479.894	154.350	142.597	146.515	144.948	138.680
60.0	1405.209	1277.107	1136.860	867.336	444.245	140.638	123.401	123.401	127.319	123.401
62.5	1436.941	1281.024	1126.283	823.851	407.812	126.927	115.958	108.123	117.133	117.525
65.0	1460.446	1283.766	1107.087	783.109	371.771	113.999	105.381	97.546	108.515	123.010
67.5	1505.889	1316.673	1133.726	801.522	333.380	102.639	88.536	88.144	101.072	137.113
70.0	1537.621	1334.694	1143.912	828.161	305.565	93.628	76.391	77.175	101.463	147.690
72.5	1425.188	1247.725	1068.695	788.202	273.442	81.092	65.031	67.381	104.989	143.772
75.0	1139.602	1013.459	864.202	664.801	196.267	67.773	54.845	59.938	104.597	140.247
77.5	635.419	582.533	509.667	481.853	106.948	55.237	45.051	54.062	95.587	134.370
80.0	191.566	164.143	136.721	172.762	60.330	38.783	34.474	45.835	81.092	110.082
82.5	68.556	53.670	45.051	41.526	32.515	23.113	21.938	31.340	56.804	67.773
85.0	16.454	12.928	11.361	10.186	10.186	9.402	8.619	16.845	26.639	28.990
87.5	0.784	0.784	0.392	0.784	0.784	0.392	0.392	2.742	2.742	3.134
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

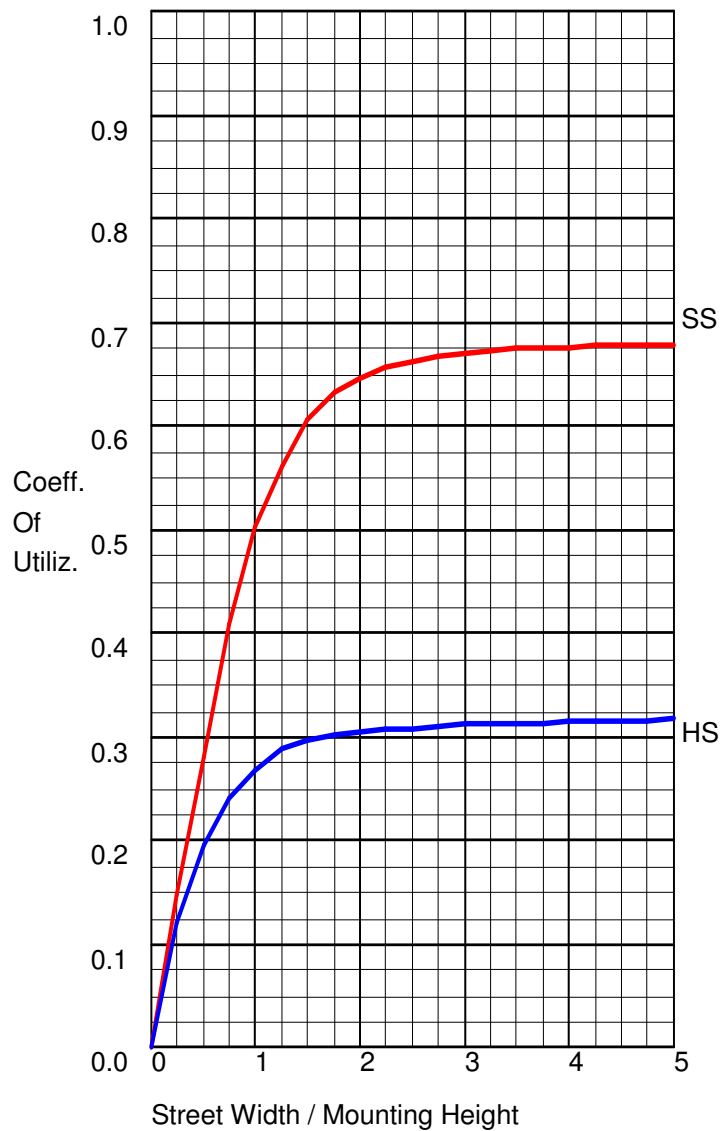
Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>180.0</u>
0.0	938.634	938.634
2.5	900.634	897.109
5.0	851.274	848.140
7.5	809.357	806.614
10.0	778.800	776.450
12.5	749.027	745.501
15.0	700.450	695.749
17.5	616.615	618.966
20.0	466.575	468.925
22.5	338.864	338.472
25.0	315.359	314.184
27.5	340.039	339.256
30.0	377.256	378.039
32.5	409.379	408.204
35.0	408.596	407.812
37.5	398.410	398.019
40.0	455.606	463.441
42.5	531.997	540.224
45.0	551.976	557.461
47.5	563.337	567.646
50.0	472.843	457.565
52.5	279.318	273.834
55.0	187.648	184.123
57.5	140.247	138.680
60.0	124.577	123.793
62.5	124.185	126.535
65.0	141.422	145.339

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L30-740-T3-XX-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	157.875	161.793
70.0	164.535	167.277
72.5	161.401	166.494
75.0	163.752	167.669
77.5	153.958	156.700
80.0	113.216	112.432
82.5	65.422	60.330
85.0	25.856	19.196
87.5	1.959	1.567
90.0	0.000	0.000

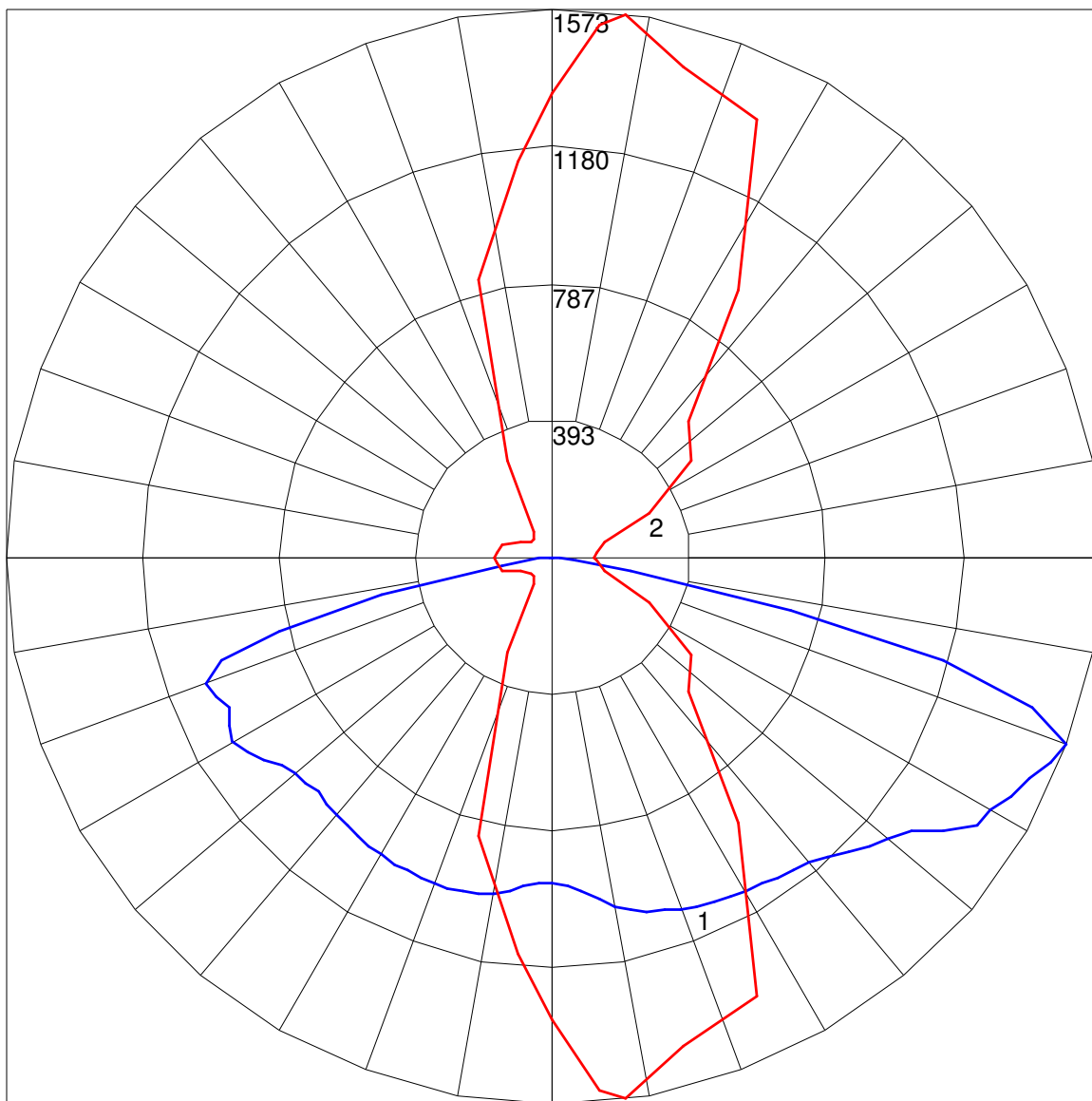
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

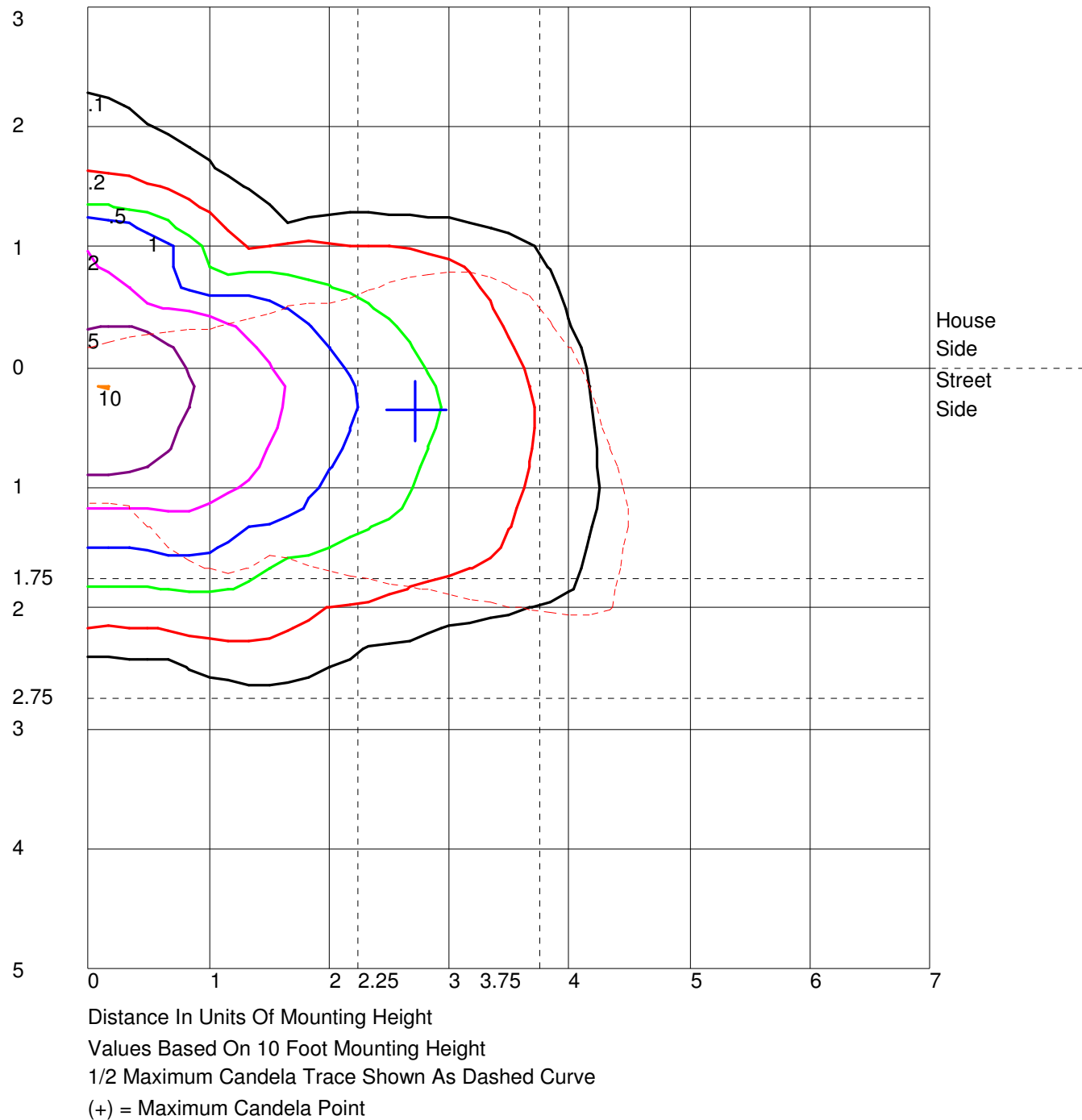
	Lumens	Percent Of Luminaire
Downward Street Side	2571.5	68.0
Downward House Side	1208.6	32.0
Downward Total	3780.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3780.1	100.0

POLAR GRAPH

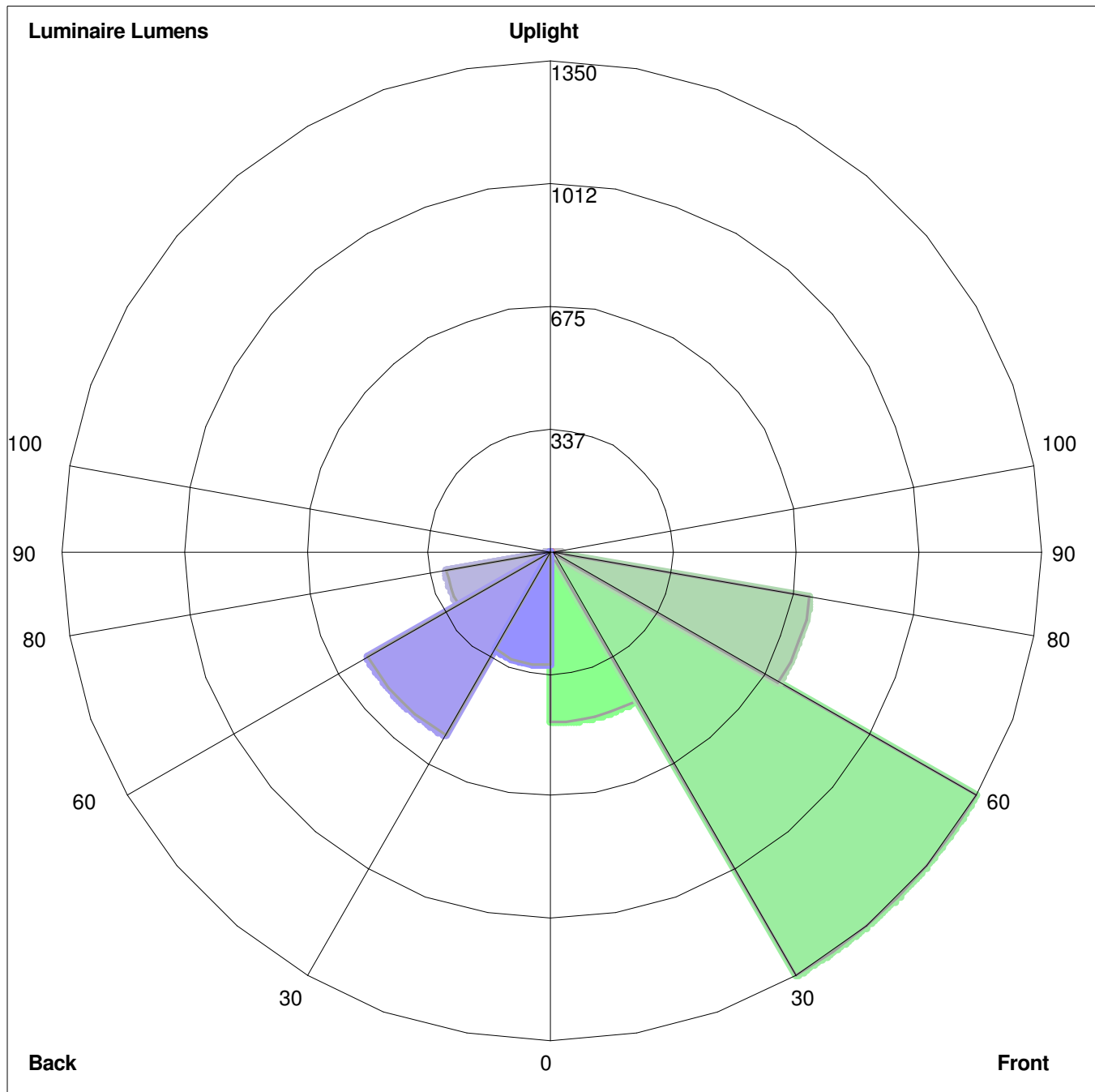


Maximum Candela = 1573.27 Located At Horizontal Angle = 82.5, Vertical Angle = 70
1 - Vertical Plane Through Horizontal Angles (82.5 - 262.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=473.4, Medium=1349.9, High=724.4, Very High=23.8
Back: Low=313.3, Medium=585.4, High=295.7, Very High=14.3
Uplight: Low=0.0, High=0.0

BUG Rating : B1-U0-G1