



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L83-730-T4-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011762  
[TESTLAB] ATA-LABS  
[ISSUE DATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA1-L83-730-T4-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE IV  
[MORE] OPTICS AND CLEAR LENS  
[LAMP] LED  
[BALLASTCAT] X1-EUD-200S105DT  
[BALLAST] (1) INVENTRONICS ELECTRONIC DRIVER  
[ \_SEARCH\_ SOURCETYPE] LED  
[ \_SEARCH\_ APPLICATION] Outdoor, Architectural, Area, Parking, Site  
[ \_SEARCH\_ MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7704
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	67
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	7159.837
Maximum Candela Angle	42.5H 72.5V
Maximum Candela (<90 Degrees Vertical)	7159.837
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	527.083 (6.8% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L83-730-T4-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	608.6	N.A.	7.9
FM - Front-Medium (30-60)	2356.7	N.A.	30.6
FH - Front-High (60-80)	2693.9	N.A.	35.0
FVH - Front-Very High (80-90)	48.4	N.A.	0.6
BL - Back-Low (0-30)	410.1	N.A.	5.3
BM - Back-Medium (30-60)	973.0	N.A.	12.6
BH - Back-High (60-80)	578.3	N.A.	7.5
BVH - Back-Very High (80-90)	35.2	N.A.	0.5
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7704.2	N.A.	100.0
BUG Rating	B2-U0-G2		

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**CANDELA TABULATION**

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<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	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885
2.5	1348.678	1342.445	1334.654	1329.200	1322.967	1314.786	1306.605	1297.255	1282.062	1264.532
5.0	1459.315	1454.640	1445.291	1434.772	1416.073	1396.205	1384.129	1354.132	1317.513	1277.388
7.5	1530.606	1528.268	1521.646	1514.244	1493.986	1467.885	1454.640	1407.503	1351.795	1294.139
10.0	1552.421	1553.590	1547.357	1546.967	1534.891	1511.127	1499.051	1446.459	1386.077	1311.669
12.5	1553.200	1555.538	1549.694	1550.863	1547.357	1523.983	1513.465	1469.833	1413.346	1329.589
15.0	1548.915	1550.863	1543.851	1543.072	1543.072	1523.983	1516.192	1483.468	1437.499	1351.405
17.5	1535.670	1538.007	1535.670	1534.891	1531.774	1516.581	1512.686	1499.830	1460.094	1371.663
20.0	1502.946	1505.673	1514.244	1518.919	1519.308	1508.400	1507.621	1512.296	1463.211	1384.518
22.5	1461.263	1463.990	1495.155	1499.440	1498.272	1496.713	1498.272	1495.155	1466.717	1402.438
25.0	1428.539	1433.993	1486.585	1471.002	1472.950	1486.195	1492.039	1486.974	1476.846	1423.475
27.5	1411.788	1426.202	1462.432	1454.640	1460.873	1483.858	1493.986	1495.934	1491.259	1452.303
30.0	1422.306	1433.993	1439.837	1452.303	1472.560	1495.155	1505.673	1521.256	1520.477	1489.312
32.5	1451.524	1445.291	1445.680	1477.235	1505.284	1523.983	1534.891	1560.992	1560.213	1534.501
35.0	1484.637	1471.002	1475.677	1528.268	1554.759	1571.900	1580.860	1610.467	1607.350	1586.703
37.5	1545.020	1533.333	1547.357	1597.221	1622.543	1633.451	1636.178	1657.215	1657.994	1644.749
40.0	1639.684	1629.945	1636.957	1686.043	1716.818	1708.637	1710.196	1699.288	1709.027	1709.417
42.5	1747.984	1737.076	1747.984	1786.551	1822.001	1800.965	1793.173	1748.763	1765.904	1783.434
45.0	1869.918	1862.906	1873.424	1913.160	1952.506	1911.601	1892.902	1844.596	1844.596	1869.528
47.5	2008.993	1994.969	2013.278	2070.155	2072.103	2046.781	2026.523	1969.647	1949.000	1972.374
50.0	2163.651	2144.172	2159.366	2231.825	2206.893	2194.037	2179.233	2137.550	2092.750	2095.087
52.5	2369.342	2360.382	2325.321	2383.756	2366.225	2366.615	2363.498	2365.056	2264.938	2238.447
55.0	2671.645	2661.516	2570.747	2560.229	2544.647	2577.760	2601.913	2615.158	2459.332	2409.467
57.5	3137.566	3113.413	2952.133	2805.266	2736.703	2848.119	2915.124	2855.131	2662.295	2561.787
60.0	3328.454	3322.610	3337.803	3140.293	2984.077	3192.495	3310.923	3118.867	2834.094	2663.075
62.5	3462.075	3489.345	3612.447	3563.752	3307.417	3661.143	3857.485	3391.563	2925.642	2679.826
65.0	3704.775	3763.989	4068.240	4042.918	3843.071	4471.831	4704.402	3734.382	2795.138	2566.462
67.5	3615.174	3708.281	4393.528	4747.254	4555.587	5681.434	5876.217	3916.699	2455.436	2324.152
70.0	2945.121	3009.789	4040.970	5300.827	5293.036	6912.852	6901.945	3483.891	1906.537	1788.109
72.5	1898.356	2010.162	3082.637	4742.190	5311.735	7159.837	6870.390	2152.353	1213.109	832.503
75.0	750.694	788.872	1369.715	2797.865	4000.455	5286.803	4117.325	876.914	696.934	382.554
77.5	465.532	452.676	414.498	804.454	1496.324	1425.423	777.964	356.064	380.606	246.985
80.0	307.368	349.830	242.700	385.671	527.083	388.787	289.058	201.016	218.936	161.280
82.5	163.618	192.056	151.931	199.458	219.326	162.449	153.879	113.753	113.364	91.938
85.0	70.901	90.379	66.226	76.355	86.484	62.720	66.226	52.202	49.085	40.515
87.5	21.816	28.438	14.804	15.193	17.920	13.245	12.466	13.245	10.518	10.518
90.0	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>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	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885	1243.885
2.5	1245.443	1238.041	1229.861	1212.720	1197.527	1179.606	1167.530	1157.401	1151.947	1146.493
5.0	1235.314	1217.784	1198.695	1160.128	1126.625	1096.239	1074.424	1060.010	1051.050	1045.206
7.5	1231.419	1202.980	1174.932	1116.886	1070.528	1037.025	1017.937	1010.145	1003.912	1001.964
10.0	1228.302	1188.956	1151.168	1077.151	1027.286	998.848	988.719	990.277	996.900	1005.860
12.5	1227.134	1176.490	1128.184	1040.142	991.446	973.916	978.590	994.563	1019.105	1043.648
15.0	1230.640	1166.751	1107.147	1005.860	961.449	957.554	975.084	1005.860	1048.323	1085.331
17.5	1233.367	1159.349	1087.669	975.474	936.907	943.529	965.735	1006.250	1043.648	1074.424
20.0	1237.262	1153.506	1070.918	948.983	916.649	928.336	951.321	974.695	1006.250	1039.752
22.5	1243.106	1147.662	1052.997	924.441	899.119	915.091	920.935	934.180	961.839	993.394
25.0	1254.014	1146.104	1038.194	903.794	885.094	896.781	883.536	894.054	911.195	941.192
27.5	1269.986	1148.831	1028.844	888.601	874.187	869.901	850.033	854.708	868.733	897.950

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## CANDELA TABULATION - (Cont.)

30.0	1295.308	1159.349	1024.559	876.524	866.006	842.242	821.595	821.595	828.218	857.435
32.5	1328.031	1174.932	1025.338	869.122	859.773	820.037	795.494	787.703	797.052	837.178
35.0	1372.442	1197.527	1031.571	866.395	851.592	801.338	771.341	757.706	784.976	826.270
37.5	1425.423	1228.692	1044.817	869.901	836.399	783.418	742.124	743.292	775.237	821.595
40.0	1490.870	1276.219	1069.749	881.199	820.816	767.445	719.529	734.332	765.887	821.206
42.5	1575.795	1341.276	1107.537	894.054	808.350	754.590	709.011	723.035	756.927	817.699
45.0	1679.810	1428.150	1162.076	898.729	805.233	740.955	705.115	710.958	747.578	811.077
47.5	1798.627	1534.501	1235.314	902.235	804.065	728.878	696.544	697.713	735.501	767.445
50.0	1937.313	1656.436	1316.734	915.091	803.286	717.581	682.520	683.299	687.195	750.694
52.5	2089.633	1783.824	1403.997	947.425	804.454	712.517	669.275	665.769	654.861	737.838
55.0	2272.729	2000.423	1560.213	974.695	806.402	720.697	669.664	640.057	642.395	716.412
57.5	2570.358	2317.140	1706.690	999.237	831.334	750.305	698.492	649.407	654.861	700.440
60.0	2859.806	2462.448	1824.728	1056.504	859.773	763.939	722.256	675.118	698.492	710.179
62.5	2842.275	2471.018	1952.506	1089.617	852.760	749.525	701.609	653.692	729.268	695.765
65.0	2638.532	2377.912	1853.556	1015.989	839.126	744.461	667.716	588.635	674.729	640.836
67.5	1960.297	1713.702	1219.342	741.345	746.798	726.931	637.720	527.862	598.374	602.659
70.0	971.968	763.939	532.927	412.161	527.473	655.640	617.073	474.102	524.356	545.782
72.5	409.045	335.417	282.046	264.515	312.822	513.448	584.349	411.382	437.093	483.062
75.0	252.439	222.053	194.394	191.667	208.028	334.248	502.540	354.895	349.441	397.358
77.5	171.409	149.983	133.232	134.790	147.646	209.587	378.658	303.862	274.644	294.122
80.0	112.585	97.392	86.484	91.158	100.898	130.894	239.973	218.936	209.197	218.547
82.5	64.668	54.539	48.696	54.539	61.551	76.745	130.894	151.541	153.100	163.618
85.0	29.217	24.153	21.037	24.932	29.217	35.840	60.383	71.680	69.343	66.616
87.5	7.791	6.623	6.233	7.402	8.570	10.518	17.920	17.920	15.972	10.518
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

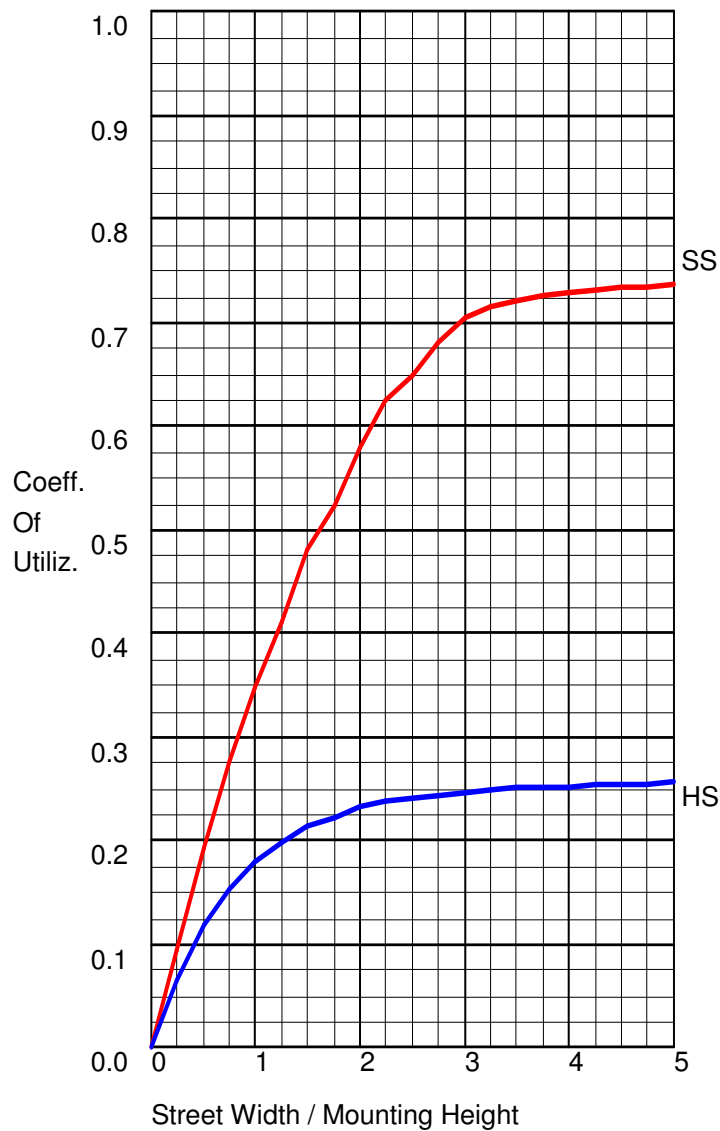
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	1243.885	1243.885
2.5	1138.312	1143.766
5.0	1038.973	1040.531
7.5	999.627	998.848
10.0	1011.314	1008.976
12.5	1059.231	1057.283
15.0	1103.641	1105.199
17.5	1090.785	1091.954
20.0	1058.841	1058.062
22.5	1011.703	1015.210
25.0	964.956	970.020
27.5	918.208	923.661
30.0	883.536	889.769
32.5	867.954	874.187
35.0	858.993	864.447
37.5	861.331	865.616
40.0	866.006	869.901
42.5	860.162	864.058
45.0	834.451	837.567
47.5	814.193	818.479
50.0	818.868	821.985
52.5	814.583	818.089
55.0	793.936	800.559
57.5	773.678	779.912
60.0	748.746	753.811
62.5	703.167	710.569
65.0	647.459	663.042

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA1-L83-730-T4-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>67.5</b>	588.245	609.282
<b>70.0</b>	525.525	552.794
<b>72.5</b>	466.311	490.074
<b>75.0</b>	389.177	407.097
<b>77.5</b>	317.886	342.429
<b>80.0</b>	286.331	304.641
<b>82.5</b>	165.566	167.903
<b>85.0</b>	48.306	43.631
<b>87.5</b>	4.285	2.337
<b>90.0</b>	0.000	0.000

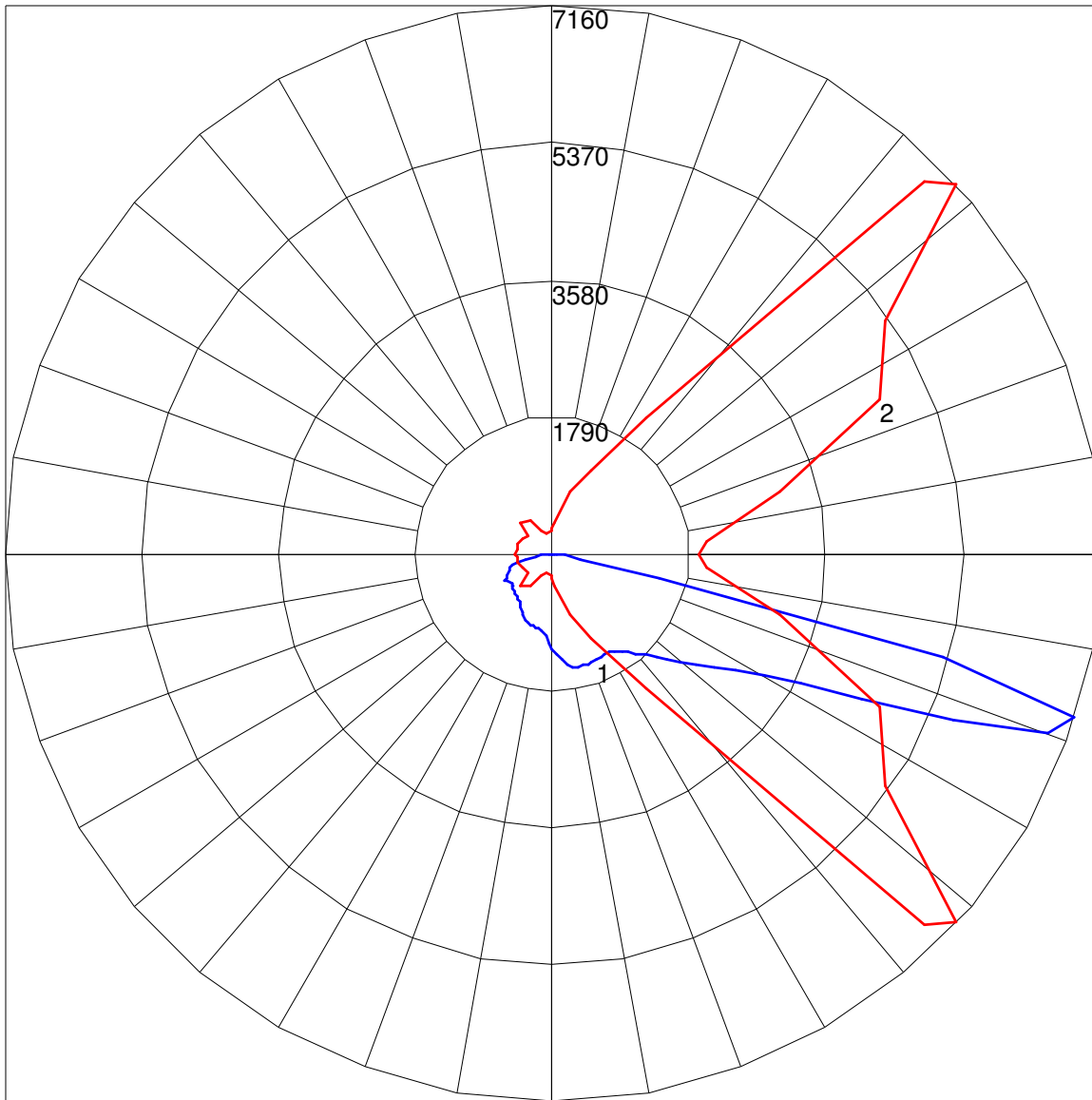
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

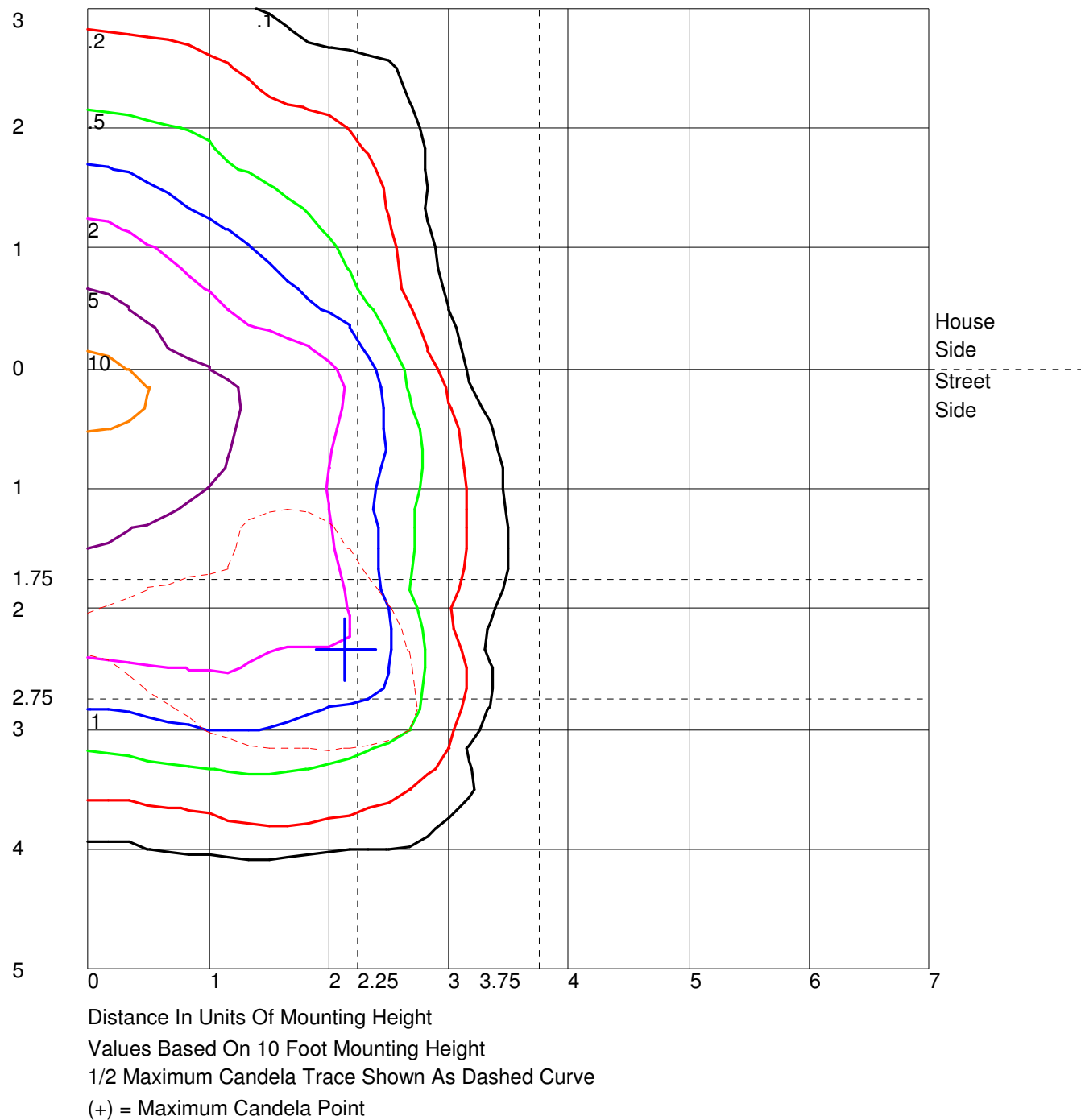
	Lumens	Percent Of Luminaire
Downward Street Side	5707.6	74.1
Downward House Side	1996.5	25.9
Downward Total	7704.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7704.1	100.0

POLAR GRAPH



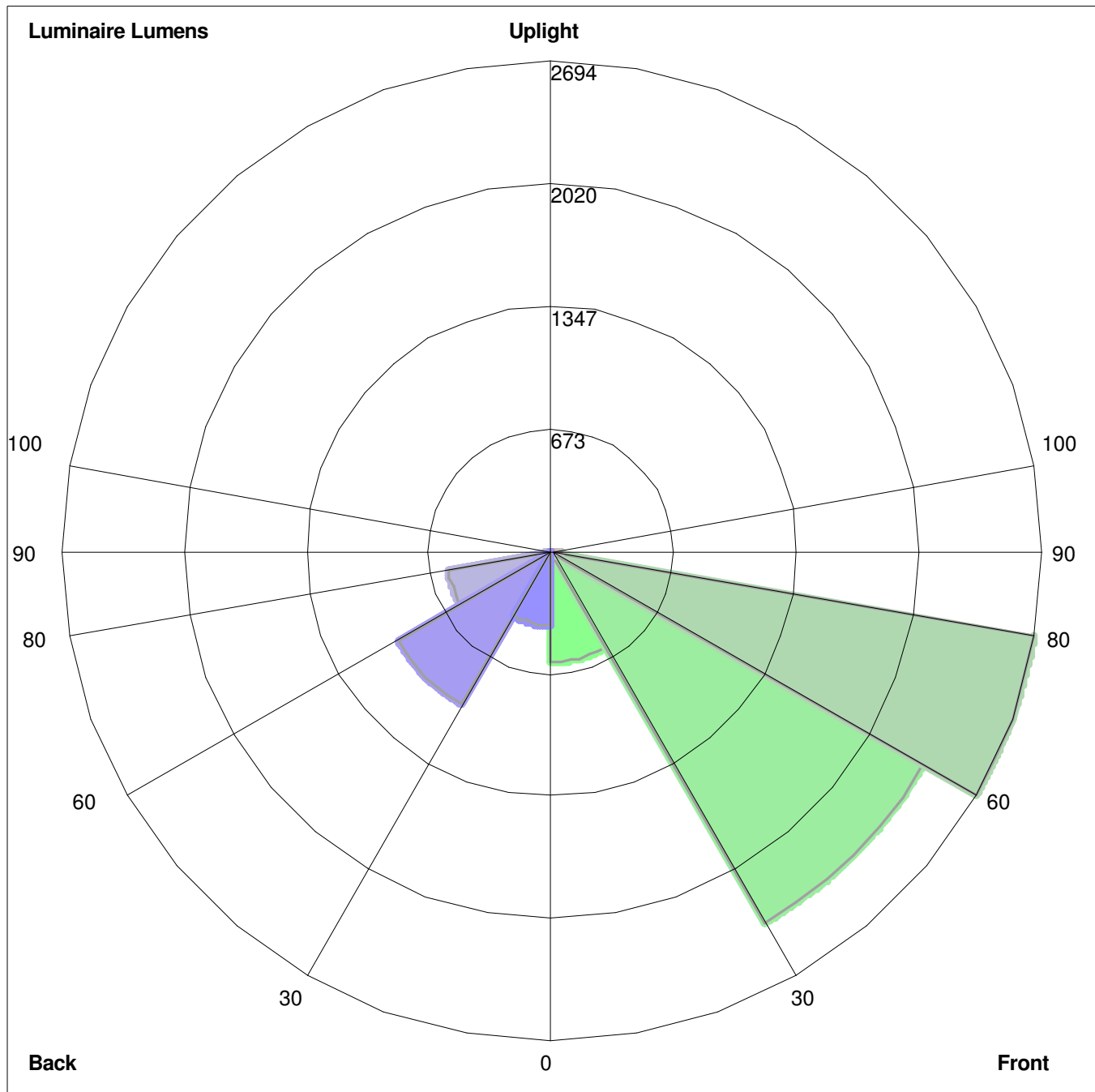
Maximum Candela = 7159.837 Located At Horizontal Angle = 42.5, Vertical Angle = 72.5  
# 1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (72.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=608.6, Medium=2356.7, High=2693.9, Very High=48.4  
Back: Low=410.1, Medium=973.0, High=578.3, Very High=35.2  
Uplight: Low=0.0, High=0.0

BUG Rating : B2-U0-G2