



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L160-740-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011760
[TESTLAB] ATA-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L160-740-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] III OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type II
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16688
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	127
Total Luminaire Watts	131
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	11961.708
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	11961.708
Maximum Candela Angle (<90 Degrees Vertical)	62.5H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	2439.57 (14.6% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L160-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1683.9	N.A.	10.1
FM - Front-Medium (30-60)	5832.7	N.A.	35.0
FH - Front-High (60-80)	3897.6	N.A.	23.4
FVH - Front-Very High (80-90)	119.0	N.A.	0.7
BL - Back-Low (0-30)	914.2	N.A.	5.5
BM - Back-Medium (30-60)	2167.7	N.A.	13.0
BH - Back-High (60-80)	1899.2	N.A.	11.4
BVH - Back-Very High (80-90)	173.4	N.A.	1.0
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	16687.7	N.A.	100.0
BUG Rating	B3-U0-G3		

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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>62.5</u>	<u>65.0</u>	<u>75.0</u>
0.0	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175
2.5	3659.785	3634.024	3628.013	3627.154	3609.121	3600.534	3573.915	3561.034	3549.871	3527.545
5.0	3846.123	3822.938	3810.916	3798.894	3767.981	3739.644	3692.415	3652.056	3634.024	3575.632
7.5	3913.960	3894.210	3884.764	3884.764	3875.319	3853.851	3798.036	3743.937	3723.329	3633.165
10.0	3873.601	3862.438	3852.992	3865.014	3880.471	3900.221	3883.047	3831.525	3813.492	3701.861
12.5	3841.829	3834.960	3823.797	3836.677	3852.992	3889.058	3913.102	3896.786	3889.058	3775.709
15.0	3853.851	3848.699	3831.525	3832.384	3840.971	3877.036	3921.689	3938.004	3944.015	3864.156
17.5	3915.678	3910.525	3886.482	3872.743	3862.438	3889.917	3939.721	3974.928	3989.526	3952.602
20.0	3992.961	3995.537	3965.482	3950.884	3926.841	3938.863	3980.080	4025.591	4040.189	4040.189
22.5	4074.537	4074.537	4051.352	4041.048	4027.309	4025.591	4048.776	4096.864	4108.027	4128.636
25.0	4138.081	4138.940	4126.059	4125.201	4138.940	4142.375	4144.951	4176.723	4189.603	4214.506
27.5	4191.321	4194.756	4175.005	4191.321	4241.125	4274.615	4269.463	4267.745	4281.484	4298.658
30.0	4250.571	4247.136	4225.669	4229.962	4317.550	4421.453	4418.018	4378.518	4381.094	4383.670
32.5	4255.723	4256.582	4253.147	4267.745	4364.778	4570.008	4582.030	4517.627	4500.453	4467.822
35.0	4222.234	4227.386	4248.854	4313.256	4436.909	4705.683	4786.401	4686.791	4648.150	4545.106
37.5	4175.864	4183.592	4217.082	4370.789	4622.389	4848.227	5013.098	4876.564	4801.857	4598.345
40.0	4123.483	4136.364	4193.897	4515.051	5109.272	5411.535	5321.372	5092.957	4984.761	4653.302
42.5	4048.776	4072.820	4144.092	4436.909	5118.718	5974.843	6082.181	5539.482	5328.241	4743.466
45.0	4194.756	4206.777	4173.288	4371.648	4986.478	5898.419	6583.662	6375.857	6132.844	5065.479
47.5	4622.389	4610.367	4554.551	4590.617	4940.967	5682.026	6570.782	6762.272	6703.022	5888.973
50.0	4606.932	4589.758	4697.096	4940.967	5152.207	5600.449	6250.486	6590.532	6572.499	5996.311
52.5	4197.332	4182.734	4448.931	4967.587	5515.438	5847.755	6119.105	6330.345	6337.215	5810.831
55.0	3239.880	3264.782	3763.687	4768.368	5820.277	6569.064	6483.194	6448.846	6449.705	5948.223
57.5	2425.831	2491.092	2937.617	4089.994	5830.581	7675.072	7479.288	6935.730	6860.164	6195.529
60.0	1956.980	1995.622	2244.645	2869.780	5052.598	8354.304	9349.539	7895.758	7657.898	6700.446
62.5	1414.281	1451.205	1586.021	1882.273	3514.664	7880.301	11166.551	9572.801	9041.265	7554.853
65.0	1132.627	1154.953	1239.965	1308.661	1965.567	6506.379	11264.443	11337.432	10730.331	8602.469
67.5	991.800	997.811	1111.159	1128.333	1207.334	3667.513	10027.913	11961.708	11818.305	9237.049
70.0	786.570	771.972	935.984	985.789	933.408	1792.109	7601.223	10727.754	11069.518	9361.561
72.5	553.862	539.264	603.667	838.092	735.907	1018.420	4207.636	8166.249	8793.959	8447.044
75.0	427.633	423.340	429.351	645.743	610.537	660.341	1841.055	4957.282	5602.167	5639.950
77.5	295.393	291.958	298.828	430.209	520.373	455.112	790.864	1975.872	2627.626	3673.524
80.0	190.632	187.197	196.643	271.350	455.112	299.687	413.894	757.374	1115.453	2439.570
82.5	103.903	100.468	112.490	160.577	302.263	166.588	217.251	322.872	403.590	1117.170
85.0	43.794	41.218	48.946	72.990	107.338	69.555	88.446	115.066	130.523	245.589
87.5	8.587	8.587	9.446	16.315	19.750	14.598	17.174	22.326	24.044	29.196
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	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175	3481.175
2.5	3496.631	3484.610	3473.446	3438.240	3412.479	3373.837	3337.772	3329.185	3293.978	3280.239
5.0	3507.795	3471.729	3442.533	3365.250	3287.967	3198.662	3111.075	3053.542	2973.682	2929.889
7.5	3529.262	3471.729	3422.783	3295.695	3157.444	2991.715	2814.823	2655.963	2462.755	2376.885
10.0	3561.034	3484.610	3411.620	3231.293	3014.041	2720.365	2376.026	2090.079	1890.860	1804.990
12.5	3602.252	3507.795	3408.185	3165.173	2840.584	2356.276	1930.360	1771.501	1737.153	1725.131
15.0	3656.350	3543.001	3418.490	3101.629	2619.897	1997.339	1765.490	1731.142	1719.979	1719.120
17.5	3721.611	3589.371	3439.957	3033.791	2348.548	1799.838	1740.587	1725.131	1718.261	1714.826
20.0	3793.742	3646.045	3471.729	2955.650	2082.350	1750.033	1728.566	1717.402	1698.511	1680.478
22.5	3877.895	3715.600	3509.512	2862.051	1891.719	1734.576	1711.392	1685.631	1659.869	1634.967
25.0	3968.917	3784.296	3546.436	2752.137	1804.990	1721.696	1680.478	1640.119	1610.065	1581.728
27.5	4068.526	3855.569	3573.915	2624.191	1774.077	1703.663	1639.261	1591.173	1560.260	1529.347

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CANDELA TABULATION - (Cont.)

30.0	4171.571	3931.993	3609.980	2491.951	1752.609	1674.467	1595.467	1538.793	1506.162	1481.260
32.5	4271.180	4015.287	3651.198	2370.015	1730.283	1636.685	1548.238	1484.694	1458.075	1439.183
35.0	4345.887	4069.385	3680.393	2253.232	1699.370	1592.032	1506.162	1431.455	1406.553	1397.107
37.5	4373.365	4074.537	3674.383	2156.199	1661.587	1544.804	1462.368	1387.661	1360.183	1343.009
40.0	4400.844	4088.277	3672.665	2089.220	1628.956	1500.151	1424.585	1345.585	1310.378	1288.052
42.5	4437.768	4117.472	3690.698	2039.415	1599.760	1461.509	1391.096	1309.519	1253.704	1227.943
45.0	4636.128	4326.995	3856.427	2060.024	1584.304	1429.738	1365.335	1276.889	1199.606	1172.986
47.5	5180.545	4794.988	4302.952	2356.276	1706.239	1422.009	1349.878	1267.443	1171.268	1148.942
50.0	5288.741	4895.456	4389.681	2545.190	2030.828	1584.304	1355.031	1280.324	1207.334	1257.997
52.5	5155.642	4766.651	4268.604	2324.504	1922.632	1799.838	1467.520	1293.204	1312.954	1517.325
55.0	5308.491	4946.119	4507.323	2429.266	1736.294	1584.304	1563.695	1318.106	1411.705	1768.066
57.5	5530.036	5209.740	4899.749	2905.845	1713.109	1422.009	1361.041	1312.095	1458.075	1886.567
60.0	5864.929	5521.449	5384.057	3589.371	1754.327	1341.291	1203.040	1175.562	1440.042	1797.262
62.5	6374.998	5955.952	5878.669	4258.299	1859.088	1275.171	1100.855	1089.692	1371.346	1599.760
65.0	6858.447	6226.443	6059.855	4532.225	2074.622	1219.356	1010.691	1014.985	1276.030	1379.074
67.5	7035.339	6338.932	6173.203	4610.367	2324.504	1146.366	920.528	926.539	1133.486	1201.323
70.0	6888.501	6313.171	6260.791	4529.649	2544.332	1078.529	812.331	820.060	999.528	1053.626
72.5	6024.648	5590.145	5662.276	4212.788	2682.583	1008.115	700.700	701.559	860.419	891.332
75.0	3742.220	3511.229	3651.198	3442.533	2665.409	956.593	577.047	579.623	716.157	674.080
77.5	2503.973	2235.199	2318.493	2716.072	2488.516	903.354	458.546	454.253	553.862	362.372
80.0	1850.501	1618.652	1735.435	2084.068	2192.264	848.397	313.426	326.306	371.818	182.045
82.5	740.200	683.526	789.146	1174.703	1653.859	697.265	157.142	197.501	188.056	103.044
85.0	101.327	83.294	112.490	326.306	838.092	416.470	62.685	68.696	56.674	43.794
87.5	18.033	13.739	15.457	26.620	188.056	118.501	12.881	12.881	7.728	4.294
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

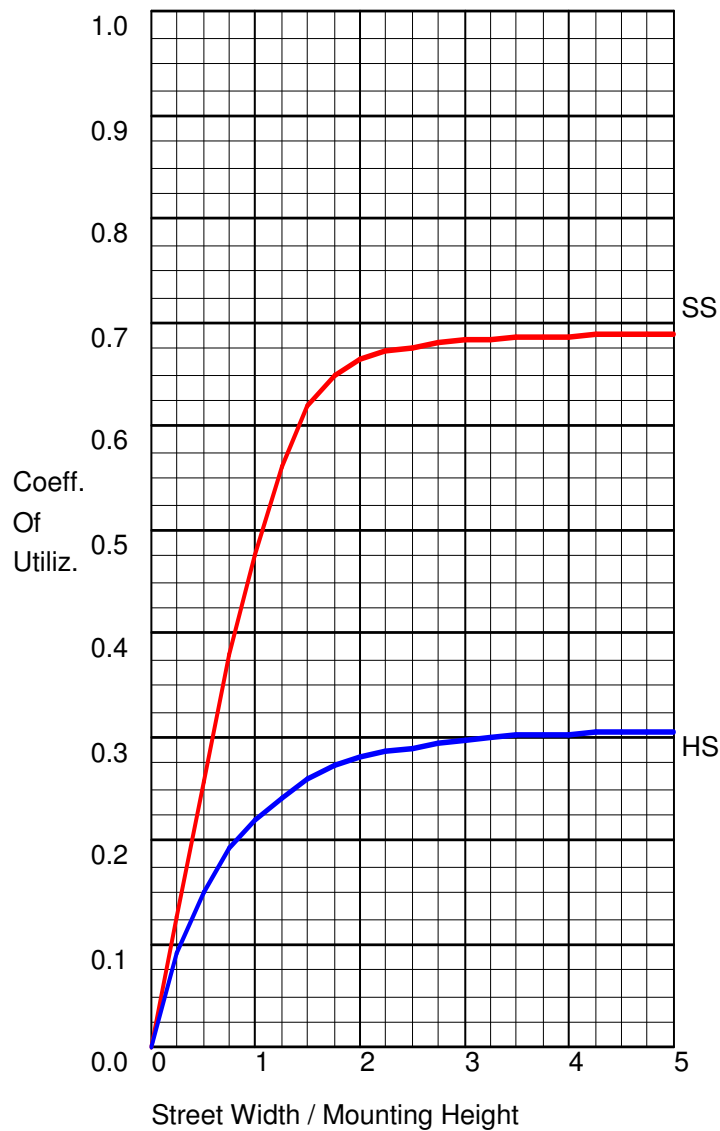
Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	3481.175	3481.175
2.5	3278.521	3270.793
5.0	2920.443	2910.138
7.5	2310.765	2302.178
10.0	1777.512	1774.077
12.5	1722.555	1720.837
15.0	1721.696	1722.555
17.5	1713.109	1711.392
20.0	1672.750	1670.174
22.5	1623.804	1619.511
25.0	1568.847	1563.695
27.5	1514.749	1513.890
30.0	1468.379	1465.803
32.5	1423.727	1421.151
35.0	1380.792	1377.357
37.5	1326.693	1324.117
40.0	1268.302	1268.302
42.5	1202.182	1201.323
45.0	1151.518	1148.084
47.5	1127.475	1129.192
50.0	1279.465	1295.780
52.5	1615.217	1637.543
55.0	1968.143	2004.209
57.5	2163.068	2211.156
60.0	1966.426	1973.295
62.5	1642.695	1622.087
65.0	1330.987	1300.074

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L160-740-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	1102.572	1096.561
70.0	935.126	929.115
72.5	774.549	766.820
75.0	499.764	495.471
77.5	291.958	284.230
80.0	190.632	187.197
82.5	118.501	116.783
85.0	24.902	23.185
87.5	0.859	0.000
90.0	0.000	0.000

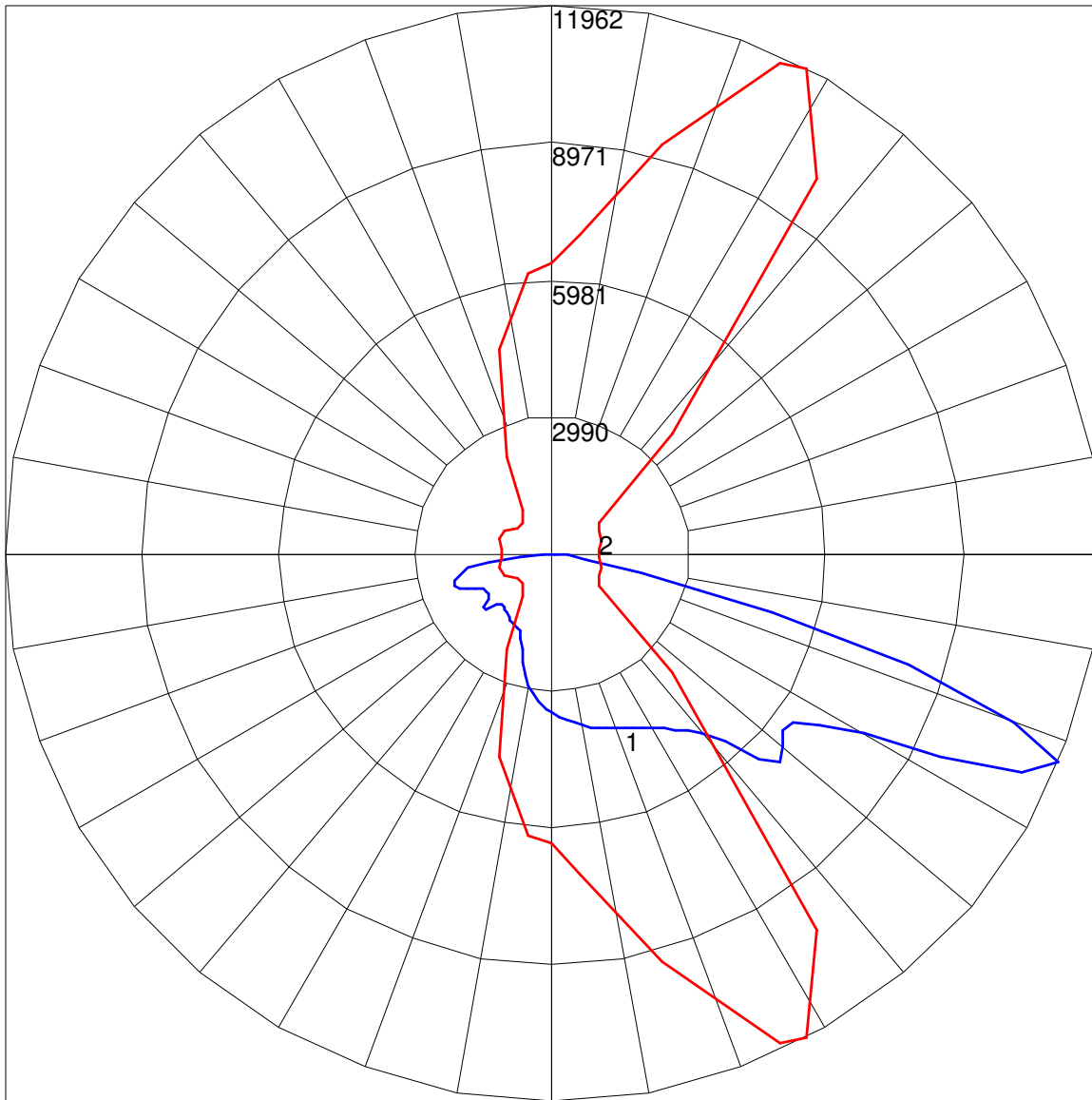
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

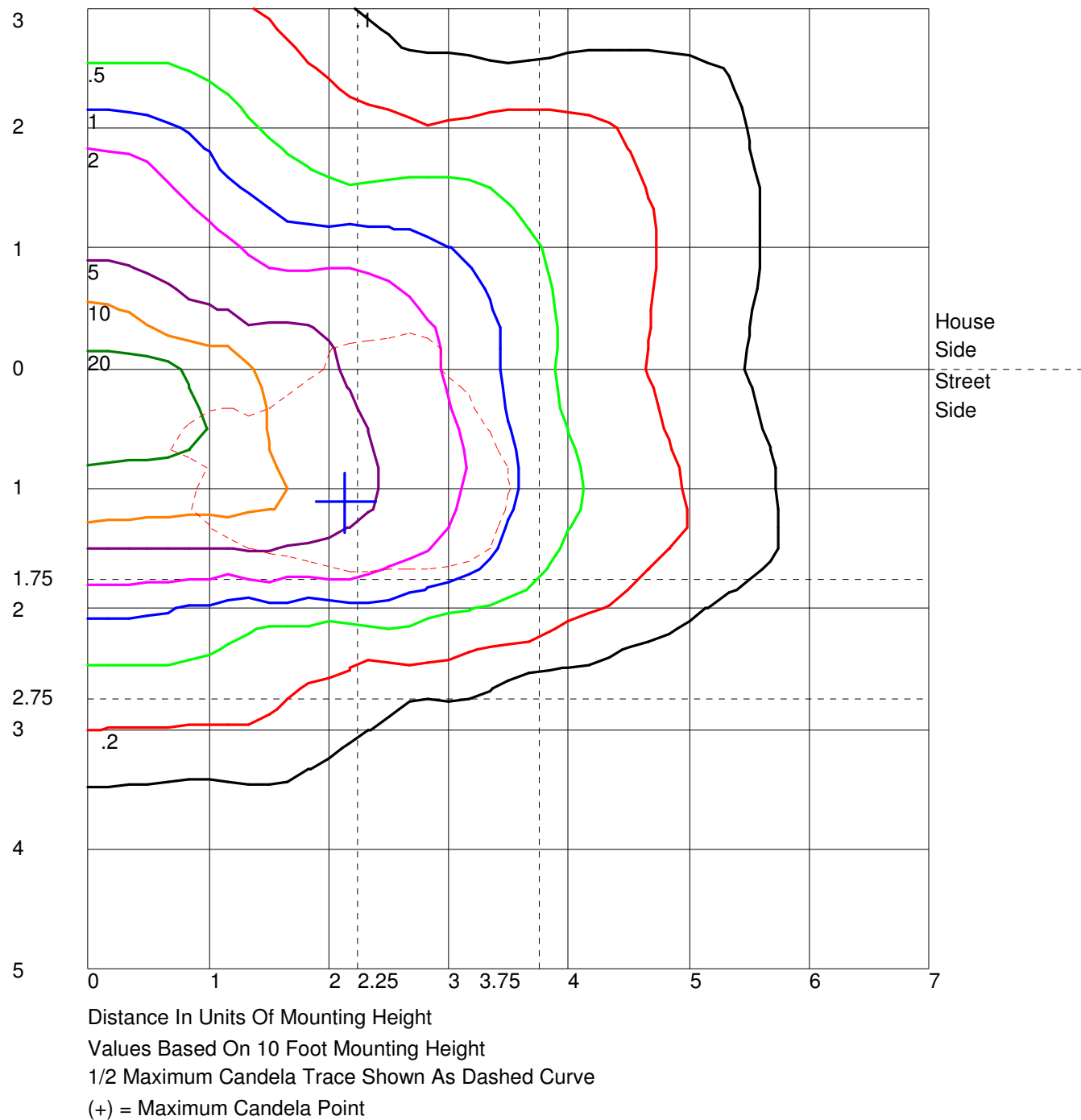
	Lumens	Percent Of Luminaire
Downward Street Side	11533.2	69.1
Downward House Side	5154.4	30.9
Downward Total	16687.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	16687.6	100.0

POLAR GRAPH

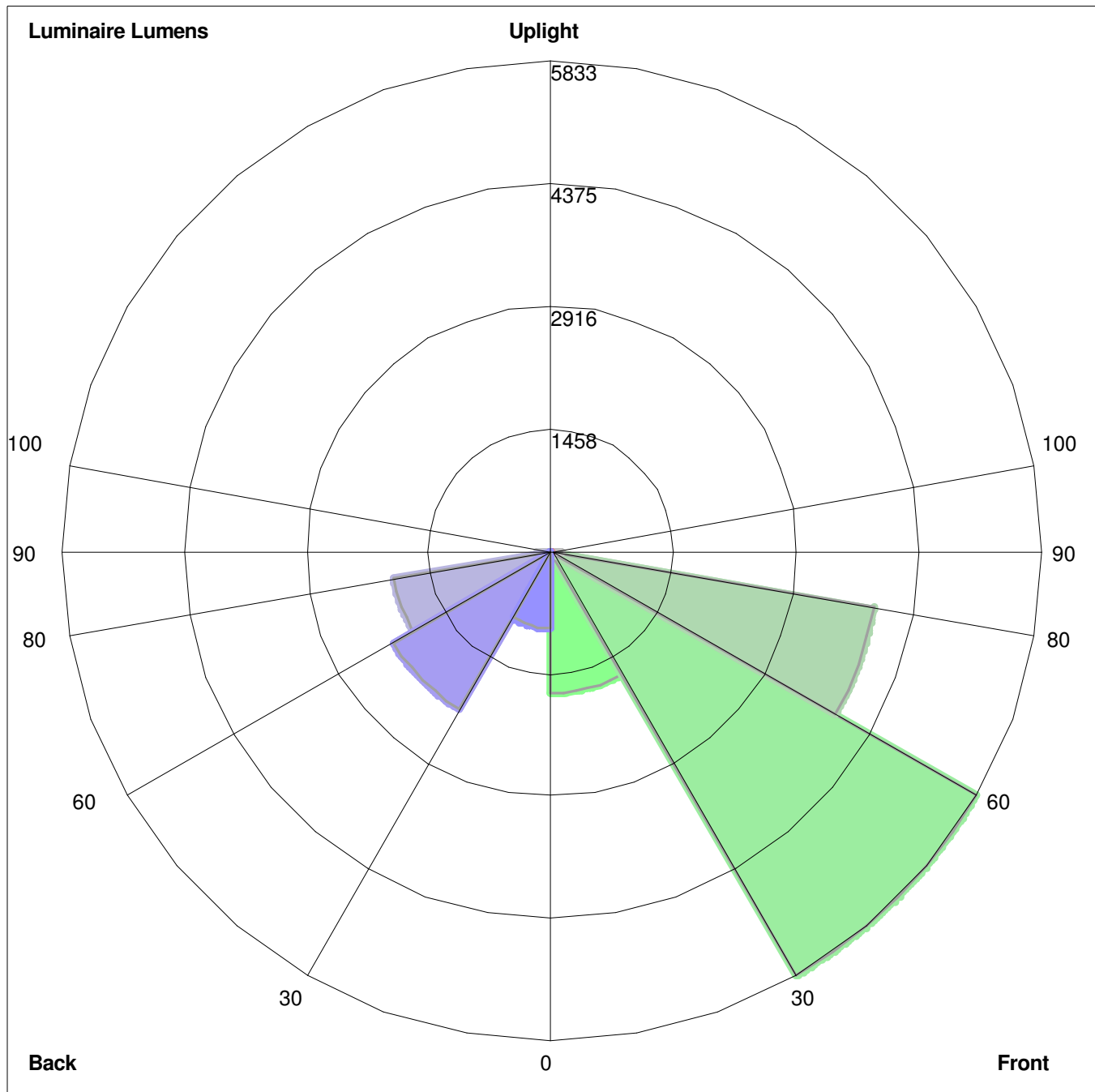


Maximum Candela = 11961.708 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1683.9, Medium=5832.7, High=3897.6, Very High=119.0
Back: Low=914.2, Medium=2167.7, High=1899.2, Very High=173.4
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3