



## IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L330-730-T2-F-S-XXX-DIM-UNV\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM ATAL011765  
[TESTLAB] ATAL-LABS  
[ISSUEDATE] 2023-01-18  
[MANUFAC] WILLIAMS OUTDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] VA2-L330-730-T2-F-S-xxx-DIM-UNV\_  
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT  
[MORE] WITH TYPE II OPTICS, CLEAR LENS, (2) LED MODULES  
[MORE] AND (2) ELECTRONIC DRIVERS  
[LAMP] LED  
[ \_SEARCH\_SOURCETYPE] LED  
[ \_SEARCH\_APPLICATION] Outdoor, Area, Parking  
[ \_SEARCH\_MOUNTING] Pole

### CHARACTERISTICS

IES Classification	Type I
Longitudinal Classification	Medium
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	32152
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	269
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	32253.923
Maximum Candela Angle	77.5H 68V
Maximum Candela (<90 Degrees Vertical)	32253.923
Maximum Candela Angle (<90 Degrees Vertical)	77.5H 68V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1364.104 (4.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-730-T2-F-S-XXX-DIM-UNV\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	5718.2	N.A.	17.8
FM - Front-Medium (30-60)	13940.7	N.A.	43.4
FH - Front-High (60-80)	5845.3	N.A.	18.2
FVH - Front-Very High (80-90)	83.1	N.A.	0.3
BL - Back-Low (0-30)	1328.2	N.A.	4.1
BM - Back-Medium (30-60)	3107.8	N.A.	9.7
BH - Back-High (60-80)	1997.8	N.A.	6.2
BVH - Back-Very High (80-90)	131.4	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	32152.5	N.A.	100.0
BUG Rating	B3-U0-G3		

**IES ROAD REPORT**  
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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>77.5</u>
0.0	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812
2.5	8902.642	8841.563	8798.129	8737.049	8647.466	8464.229	8331.212	8126.257	7898.227	7834.434
5.0	10849.035	10862.608	10748.593	10577.571	10310.180	9897.555	9502.576	8992.225	8433.010	8282.348
7.5	12787.283	12803.571	12636.621	12351.584	11930.816	11294.235	10665.797	9856.836	8978.652	8750.623
10.0	14439.138	14416.064	14232.826	13908.427	13425.222	12640.693	11816.802	10717.375	9518.864	9213.468
12.5	15173.446	15134.084	15049.931	14895.196	14591.157	13862.278	12931.159	11602.345	10086.222	9698.030
15.0	15097.437	15073.005	15070.290	15096.079	15104.223	14808.328	13977.650	12532.108	10722.804	10247.743
17.5	15048.573	15029.571	15029.571	15045.859	15140.871	15227.739	14850.405	13501.232	11446.254	10880.253
20.0	15039.072	15039.072	15093.365	15113.724	15147.657	15315.965	15429.979	14532.793	12274.217	11619.991
22.5	14739.105	14775.753	14953.561	15125.940	15227.739	15340.396	15729.946	15442.195	13172.761	12441.167
25.0	13935.573	13974.936	14295.262	14806.971	15215.523	15448.982	15896.896	16271.516	14159.531	13345.140
27.5	12852.434	12902.655	13246.056	13974.936	14912.842	15520.920	16077.420	16928.457	15161.231	14265.401
30.0	11987.823	12021.756	12366.515	12992.238	14120.168	15389.260	16283.732	17415.734	16146.643	15203.307
32.5	11438.110	11485.616	11782.869	12302.721	13241.984	15013.283	16510.404	17809.356	17094.050	16099.137
35.0	10900.613	10946.761	11283.376	11791.013	12571.470	14455.426	16718.073	18124.254	17879.936	16847.018
37.5	10060.433	10141.872	10550.425	11146.287	11993.253	13951.861	16999.038	18393.002	18513.803	17513.461
40.0	8795.414	8878.210	9415.708	10242.314	11211.438	13251.486	17470.027	18688.897	19115.095	18226.052
42.5	7234.499	7165.276	7755.709	8785.913	10143.230	12233.498	17598.972	19599.657	19671.595	18881.636
45.0	5581.287	5533.781	5938.262	6796.086	8471.015	11049.917	16832.088	21267.800	20165.658	19459.853
47.5	4498.148	4449.285	4651.525	5066.864	6299.308	9324.768	15347.183	22584.397	21242.011	20332.608
50.0	3972.867	3936.219	3997.298	4104.527	4605.376	6506.978	13472.728	23294.274	23378.428	22509.745
52.5	3731.264	3697.331	3706.833	3648.468	3841.207	4394.992	10308.822	24054.371	26711.998	25718.442
55.0	3347.144	3311.853	3469.302	3504.592	3542.597	3738.051	6614.206	24351.624	29733.386	28861.988
57.5	2920.946	2895.157	3078.395	3377.005	3462.516	3516.808	5081.795	22694.340	30690.294	30021.137
60.0	2532.753	2516.466	2706.490	3049.891	3317.283	3326.784	4726.178	19325.479	30383.540	30185.372
62.5	2087.554	2098.412	2345.444	2696.989	2977.953	3009.172	4418.067	15515.490	30105.290	30456.836
65.0	1649.140	1665.428	1940.963	2302.010	2568.044	2568.044	3880.569	11858.878	30006.206	30840.956
67.5	1129.288	1129.288	1464.545	1870.383	2128.273	2118.772	3163.906	8734.335	31206.074	32138.551
68.0	1020.702	1020.702	1327.456	1779.443	2038.690	2026.474	3005.100	8209.053	31373.024	32253.923
70.0	813.033	815.747	914.832	1410.252	1687.145	1676.286	2373.947	6327.812	29259.682	29961.415
72.5	633.867	644.726	718.021	948.765	1303.024	1324.741	1670.857	3991.869	20803.597	20792.739
75.0	475.061	484.562	548.356	667.800	1008.487	1108.928	1099.427	2003.400	8358.358	7892.798
77.5	331.185	346.116	397.694	483.205	780.457	994.913	647.440	978.626	1745.510	1731.936
80.0	219.885	232.101	268.749	314.898	574.145	719.378	396.337	533.426	715.306	730.237
82.5	122.159	130.302	150.662	175.094	352.902	339.329	223.957	276.893	377.334	365.118
85.0	47.506	52.935	61.079	69.223	169.665	118.087	88.226	103.156	141.161	137.089
87.5	5.429	6.787	8.144	8.144	25.789	9.501	8.144	8.144	13.573	13.573
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	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812	7440.812
2.5	7664.769	7531.752	7382.447	7104.197	6834.091	6573.486	6318.310	6133.715	5991.197	5885.326
5.0	7846.649	7516.821	7176.135	6527.337	5902.972	5332.898	4833.406	4449.285	4164.248	3967.438
7.5	8025.815	7522.251	6994.254	5974.909	5038.361	4228.042	3584.674	3146.261	2868.011	2721.421
10.0	8225.341	7534.467	6823.232	5459.129	4257.903	3333.570	2779.785	2527.324	2428.240	2379.377
12.5	8461.514	7579.258	6688.858	4993.569	3603.677	2755.353	2456.744	2361.732	2311.511	2277.578
15.0	8731.620	7672.913	6596.560	4571.444	3082.467	2481.175	2344.086	2280.293	2238.216	2213.784
17.5	9077.736	7829.004	6550.412	4183.251	2725.492	2364.446	2270.791	2223.285	2192.067	2164.921
20.0	9516.149	8043.460	6547.697	3852.066	2528.682	2299.295	2217.856	2185.280	2163.563	2132.345
22.5	9980.352	8308.137	6587.059	3569.744	2425.525	2251.789	2179.851	2156.777	2148.633	2111.985
25.0	10483.916	8613.533	6660.354	3333.570	2364.446	2206.997	2149.990	2132.345	2130.988	2079.410

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PHOTOMETRIC FILENAME : VA2-L330-730-T2-F-S-XXX-DIM-UNV\_.IES

## CANDELA TABULATION - (Cont.)

27.5	11034.9878952.863	6758.081	3142.189	2312.868	2163.563	2114.700	2106.556	2094.340	2035.975
30.0	11603.7039296.264	6877.525	2987.455	2264.005	2116.057	2069.908	2065.836	2040.047	1983.040
32.5	12134.4149636.950	6992.897	2865.296	2219.213	2067.194	2016.973	2006.114	1961.323	1879.884
35.0	12593.1879908.414	7094.696	2763.497	2174.422	2016.973	1957.251	1913.817	1822.877	1733.294
37.5	13011.24010185.3077200.567	2672.557	2114.700	1962.680	1864.954	1783.514	1689.860	1654.569	
40.0	13501.23210538.2097375.660	2608.763	2052.263	1883.956	1745.510	1638.282	1611.135	1590.775	
42.5	13909.78410870.7527569.757	2570.758	1992.541	1779.443	1635.567	1529.696	1556.843	1556.843	
45.0	14365.84311250.8007799.143	2551.756	1927.390	1676.286	1512.051	1463.188	1505.265	1537.840	
47.5	14952.20411781.5118158.832	2566.686	1855.452	1594.847	1412.967	1404.823	1460.473	1499.835	
50.0	16507.68913221.6259197.180	2736.351	1798.445	1522.910	1385.821	1357.317	1418.396	1472.689	
52.5	19211.46415720.44511329.5253317.283	1731.936	1421.111	1380.391	1304.382	1395.322	1469.974		
55.0	21512.11717567.75413039.7443644.396	1601.634	1308.454	1254.161	1252.804	1388.535	1482.190		
57.5	21417.10417300.36213041.1013371.575	1427.897	1195.796	1163.221	1220.228	1385.821	1471.332		
60.0	20821.24216606.77312393.6612812.361	1266.377	1107.571	1100.784	1194.439	1357.317	1414.324		
62.5	20392.33015951.18911850.7342371.233	1127.930	1031.561	1041.062	1160.506	1289.451	1323.384		
65.0	20298.67515511.41811588.7722040.047	1007.129	950.122	979.983	1100.784	1186.295	1263.662		
67.5	20847.03115127.29811245.3711707.505	895.829	861.896	918.904	1019.345	1096.712	1535.125		
68.0	20868.74814963.06211143.5721628.780	875.469	844.251	903.973	1000.343	1089.926	1639.639		
70.0	19225.03812890.4399696.672	1365.461	796.745	776.385	848.323	920.261	1176.794	2064.479	
72.5	14312.9078544.310	6329.169	939.263	704.448	699.018	766.884	814.390	1541.912	2456.744
75.0	5190.380	3534.453	2680.701	652.869	605.363	629.795	678.658	709.877	1878.527
77.5	1237.873	960.980	713.949	446.557	475.061	530.711	582.289	631.152	1847.308
80.0	563.287	475.061	384.121	302.682	346.116	422.126	466.917	526.639	1364.104
82.5	312.183	283.679	237.530	185.952	232.101	295.895	328.471	362.404	788.601
85.0	116.729	107.228	99.084	82.796	118.087	149.305	166.950	180.523	385.478
87.5	9.501	6.787	9.501	9.501	23.074	32.576	39.362	48.863	118.087
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

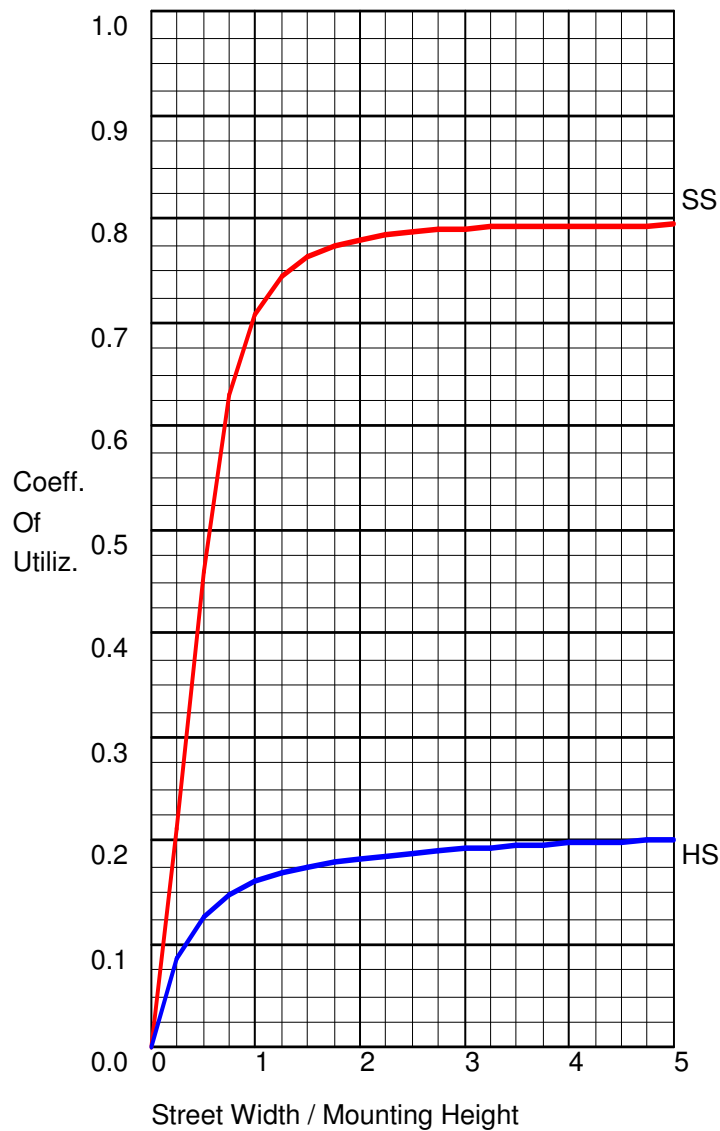
## Vert. Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	7440.812	7440.812
2.5	5832.391	5892.113
5.0	3865.639	3907.716
7.5	2665.771	2683.416
10.0	2363.089	2354.945
12.5	2265.362	2259.933
15.0	2198.853	2196.139
17.5	2149.990	2145.918
20.0	2113.343	2109.271
22.5	2084.839	2078.052
25.0	2042.762	2037.333
27.5	1993.899	1995.256
30.0	1927.390	1921.961
32.5	1798.445	1790.301
35.0	1693.932	1695.289
37.5	1642.354	1657.284
40.0	1581.274	1593.490
42.5	1517.480	1522.910
45.0	1499.835	1474.046
47.5	1461.830	1448.257
50.0	1436.041	1452.329
52.5	1457.758	1479.475
55.0	1486.262	1507.979
57.5	1484.905	1505.265
60.0	1437.399	1455.044

**IES ROAD REPORT****PHOTOMETRIC FILENAME : VA2-L330-730-T2-F-S-XXX-DIM-UNV\_.IES****CANDELA TABULATION - (Cont.)**

<b>62.5</b>	1360.032	1383.106
<b>65.0</b>	1368.176	1421.111
<b>67.5</b>	1703.433	1779.443
<b>68.0</b>	1782.157	1858.167
<b>70.0</b>	2033.261	2107.913
<b>72.5</b>	2177.136	2234.144
<b>75.0</b>	1889.385	1890.743
<b>77.5</b>	1342.386	1292.166
<b>80.0</b>	887.685	832.035
<b>82.5</b>	534.783	506.279
<b>85.0</b>	187.310	149.305
<b>87.5</b>	28.504	8.144
<b>90.0</b>	0.000	0.000

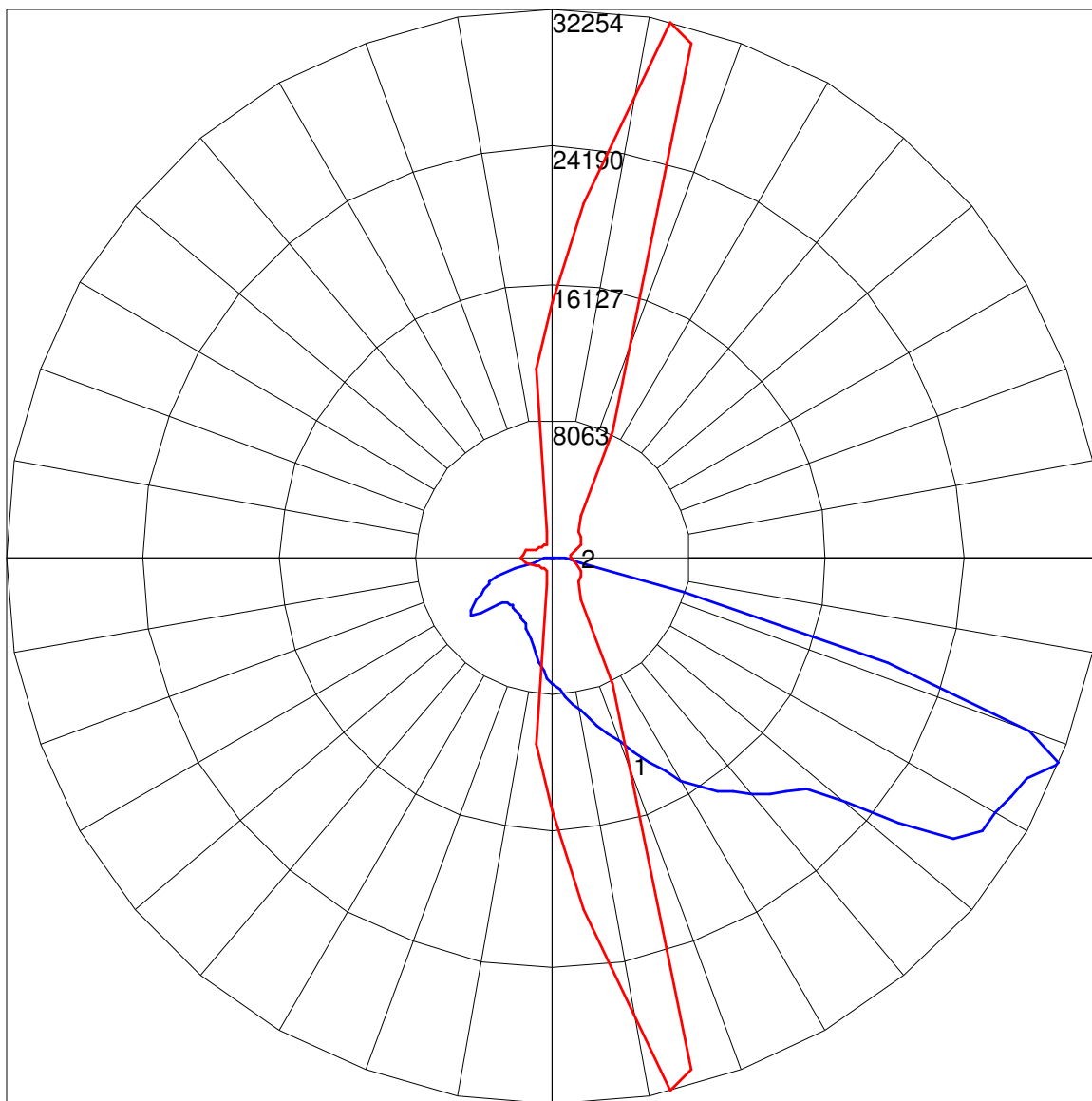
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

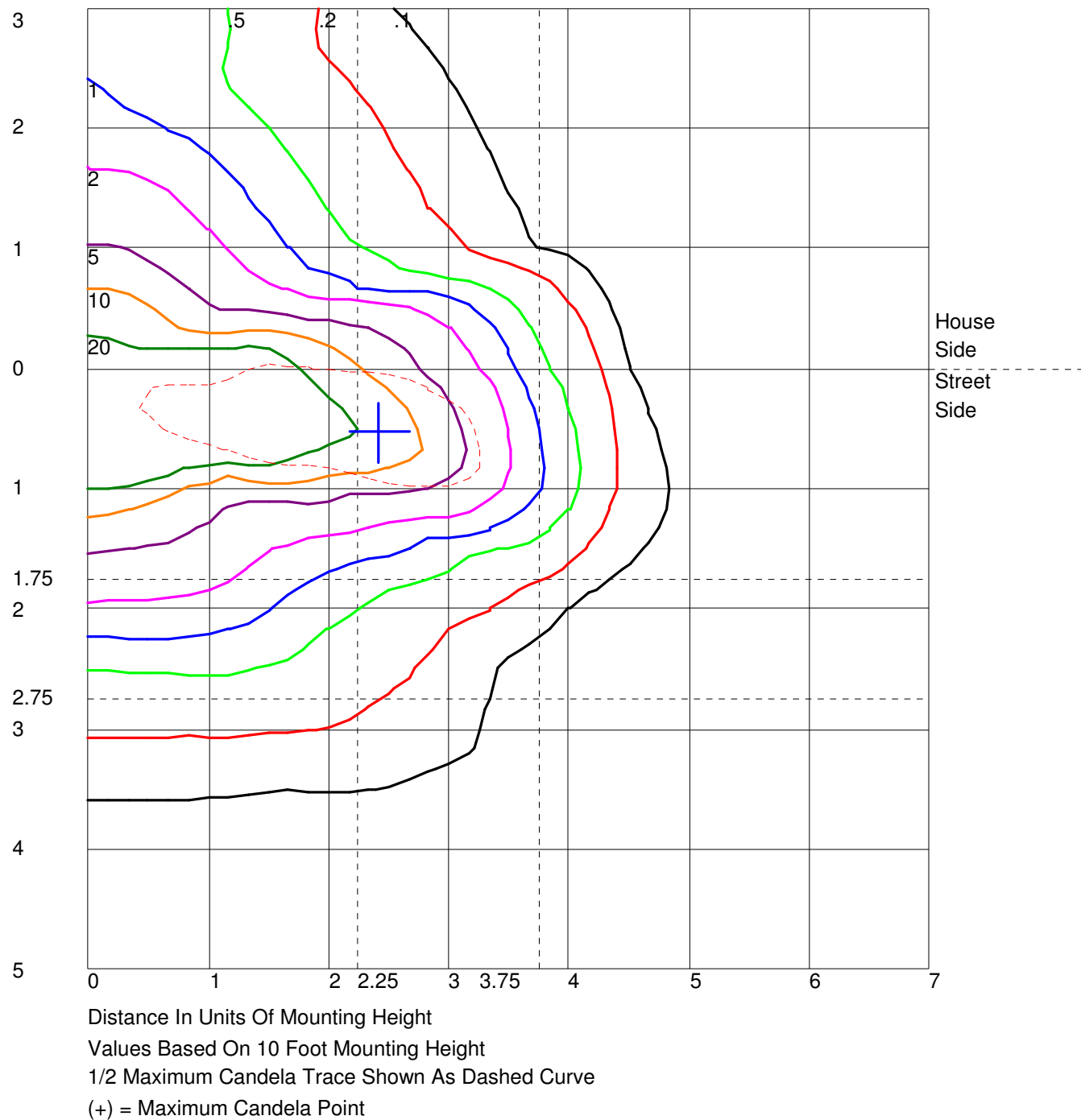
	Lumens	Percent Of Luminaire
Downward Street Side	25587.3	79.6
Downward House Side	6565.1	20.4
Downward Total	32152.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	32152.4	100.0

POLAR GRAPH



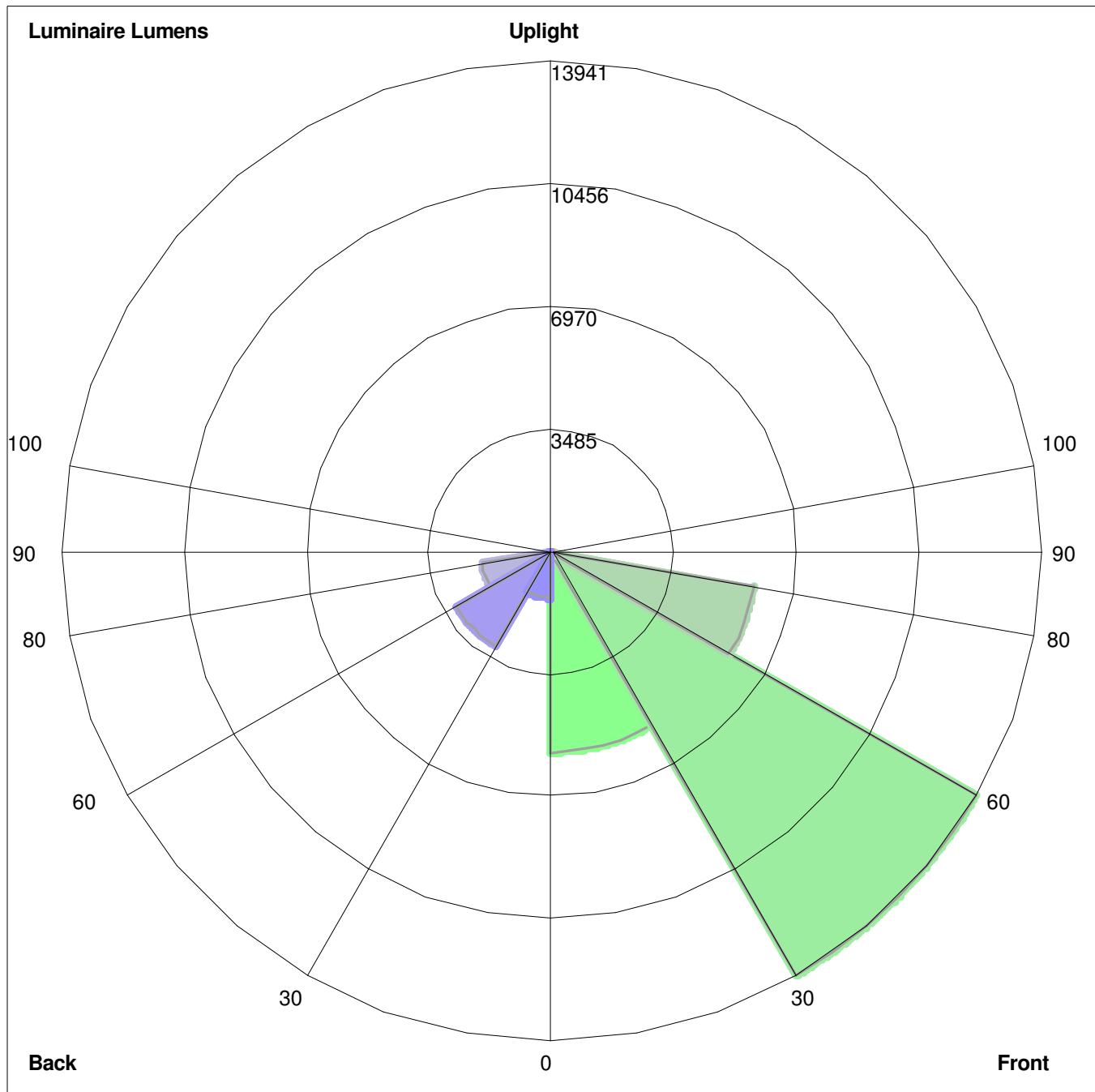
Maximum Candela = 32253.923 Located At Horizontal Angle = 77.5, Vertical Angle = 68  
# 1 - Vertical Plane Through Horizontal Angles (77.5 - 257.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE





LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=5718.2, Medium=13940.7, High=5845.3, Very High=83.1  
Back: Low=1328.2, Medium=3107.8, High=1997.8, Very High=131.4  
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G3