



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-740-T3-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011772
[TESTLAB] ATAL-LABS
[ISSUEDATE] 02/26/2020
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-740-T3-F-S-xxx-DIM-UNV
[LUMINAIRE] VOLTAIRE ARCHITECTURAL AREA LIGHT WITH TYPE III
[MORE] OPTICS, CLEAR LENS, (2) LED ARRAYS
[MORE] AND (2) ELECTRONIC DRIVERS IN A BROWN HOUSING.
[LAMPCAT] 4000K LEDS
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor, Area, Parking
[_SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type III
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	26441
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	268
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	19532.59
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	19532.59
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	4534.767 (17.2% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-740-T3-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	2628.2	N.A.	9.9
FM - Front-Medium (30-60)	9192.2	N.A.	34.8
FH - Front-High (60-80)	6513.5	N.A.	24.6
FVH - Front-Very High (80-90)	218.0	N.A.	0.8
BL - Back-Low (0-30)	1415.0	N.A.	5.4
BM - Back-Medium (30-60)	3258.2	N.A.	12.3
BH - Back-High (60-80)	2917.2	N.A.	11.0
BVH - Back-Very High (80-90)	298.8	N.A.	1.1
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	26441.1	N.A.	100.0
BUG Rating	B4-U0-G4		

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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	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073
2.5	5694.418	5684.713	5684.713	5694.418	5667.246	5643.956	5641.045	5622.607	5607.080	5575.056
5.0	5926.348	5931.200	5926.348	5918.584	5883.649	5845.803	5825.424	5765.258	5745.850	5665.305
7.5	5965.164	5974.869	5973.898	5980.691	5981.662	5976.809	5967.105	5898.206	5879.768	5760.406
10.0	5928.289	5930.229	5928.289	5941.874	5965.164	6002.040	6036.975	6005.922	5993.307	5865.211
12.5	5916.643	5916.643	5904.028	5914.703	5942.845	5991.366	6055.413	6072.881	6077.733	5972.928
15.0	5967.105	5957.401	5936.052	5925.377	5947.697	5998.159	6068.999	6123.343	6134.988	6087.437
17.5	6064.147	6066.088	6037.946	6004.952	6000.100	6037.946	6108.786	6185.450	6197.095	6206.799
20.0	6195.154	6200.976	6175.745	6137.899	6121.402	6125.284	6190.302	6276.669	6294.136	6343.628
22.5	6299.959	6318.397	6299.959	6290.255	6279.580	6277.639	6327.131	6399.912	6427.084	6484.338
25.0	6388.267	6390.208	6383.415	6406.705	6451.344	6463.960	6497.924	6543.534	6576.528	6620.197
27.5	6473.664	6458.137	6435.818	6478.516	6593.025	6677.452	6697.831	6711.416	6725.973	6751.204
30.0	6548.386	6536.741	6508.599	6511.510	6664.836	6897.737	6938.494	6914.234	6900.648	6889.974
32.5	6559.061	6550.327	6561.002	6591.085	6718.209	7104.436	7209.241	7122.874	7100.554	7009.335
35.0	6541.593	6539.652	6578.469	6674.541	6886.092	7297.549	7514.923	7393.621	7324.721	7125.785
37.5	6500.836	6495.984	6562.942	6790.020	7173.336	7550.829	7861.363	7686.687	7569.267	7204.389
40.0	6425.143	6442.610	6547.416	6996.720	7813.812	8356.276	8332.986	8002.074	7852.629	7289.786
42.5	6391.178	6411.557	6508.599	6954.992	7983.636	9184.044	9318.932	8647.402	8353.365	7425.645
45.0	6695.890	6700.742	6654.162	6946.258	7838.073	9149.109	10096.237	9720.685	9397.536	7850.688
47.5	7347.041	7337.337	7299.490	7363.538	7870.097	8897.770	10176.782	10406.771	10293.232	8894.859
50.0	7317.928	7297.549	7516.864	7939.967	8334.927	8835.663	9841.017	10378.629	10345.635	9381.039
52.5	6786.139	6798.754	7225.738	7959.375	8897.770	9300.494	9665.371	10019.574	10047.716	9176.280
55.0	5350.889	5419.789	6308.693	7782.759	9339.311	10533.896	10188.427	10139.906	10193.279	9371.334
57.5	3944.752	4023.356	4927.787	6928.790	9469.347	12196.224	11642.114	10877.424	10816.288	9815.786
60.0	3114.074	3165.506	3704.089	5031.622	8572.680	13587.804	14565.986	12250.567	12026.400	10615.411
62.5	2412.461	2396.934	2677.385	3286.809	6493.072	13082.216	17959.541	14647.502	13965.297	11839.109
65.0	1696.292	1711.819	1875.820	2160.152	3864.208	11678.020	18576.727	17803.304	16706.730	13403.425
67.5	1464.362	1473.096	1670.091	1748.695	2041.761	8026.334	16887.228	19532.590	18865.912	14522.318
70.0	1168.384	1141.213	1405.166	1526.469	1509.001	3588.609	13920.658	18152.654	18633.982	14969.681
72.5	830.679	801.566	902.489	1285.805	1160.621	1862.234	8923.001	14527.170	15494.677	14000.232
75.0	633.683	625.920	643.388	983.034	932.572	1130.538	3867.119	9732.330	10722.157	9996.284
77.5	424.073	420.191	436.688	648.240	781.187	754.986	1572.078	4566.791	5588.642	6512.481
80.0	265.895	258.131	282.392	403.694	673.471	485.209	762.749	1684.647	2651.184	4534.767
82.5	138.770	139.740	156.237	234.841	459.979	272.688	387.197	614.275	903.460	2304.745
85.0	54.343	54.343	63.077	101.894	164.971	108.687	147.504	196.025	255.220	528.878
87.5	6.793	7.763	9.704	15.527	21.349	15.527	24.260	24.260	32.024	34.935
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	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073	5476.073
2.5	5525.565	5520.713	5486.748	5436.286	5375.150	5308.191	5271.315	5229.587	5163.598	5147.101
5.0	5557.589	5514.890	5448.902	5328.570	5196.593	5047.148	4935.550	4826.863	4728.851	4667.714
7.5	5606.109	5528.476	5428.523	5231.528	5010.272	4753.111	4506.625	4254.316	3999.096	3811.805
10.0	5671.128	5551.766	5423.671	5142.249	4805.514	4372.707	3852.563	3359.590	2974.334	2790.924
12.5	5746.820	5588.642	5431.434	5052.971	4562.909	3827.332	3076.228	2695.823	2566.758	2530.852
15.0	5839.010	5645.897	5454.724	4967.574	4243.641	3205.293	2665.740	2549.290	2513.385	2496.888
17.5	5952.549	5723.530	5495.482	4876.355	3831.213	2783.161	2577.432	2524.059	2495.917	2484.272
20.0	6080.644	5825.424	5554.677	4780.283	3378.028	2622.072	2549.290	2510.473	2478.450	2455.160
22.5	6222.325	5939.934	5619.695	4665.774	3012.180	2582.284	2528.911	2483.302	2438.662	2396.934
25.0	6361.095	6050.561	5677.920	4516.329	2788.013	2561.906	2495.917	2428.958	2372.674	2326.094
27.5	6502.776	6167.982	5732.264	4330.009	2680.297	2537.645	2440.603	2366.851	2307.656	2252.342

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CANDELA TABULATION - (Cont.)

30.0	6642.517	6288.314	5793.400	4120.398	2631.776	2497.858	2376.556	2292.129	2233.904	2184.413
32.5	6765.760	6392.149	5847.744	3895.261	2593.929	2443.515	2308.626	2214.496	2163.064	2123.276
35.0	6854.068	6458.137	5881.708	3672.065	2545.409	2377.526	2238.756	2134.921	2092.223	2051.465
37.5	6879.299	6469.782	5881.708	3477.011	2489.124	2304.745	2168.886	2058.258	2017.501	1973.832
40.0	6906.471	6483.368	5873.945	3326.596	2435.751	2234.875	2103.868	1989.359	1945.690	1892.317
42.5	6941.406	6485.309	5867.152	3206.264	2395.964	2172.768	2037.880	1928.222	1860.293	1805.949
45.0	7145.194	6658.043	5998.159	3154.832	2355.206	2120.365	1989.359	1873.879	1770.044	1717.641
47.5	7843.895	7230.591	6531.889	3416.845	2423.136	2090.282	1958.305	1845.737	1711.819	1668.150
50.0	8230.122	7627.492	6892.885	3811.805	2796.747	2186.354	1958.305	1868.056	1747.724	1787.511
52.5	8023.423	7442.142	6706.564	3603.165	2937.458	2521.148	2016.530	1898.139	1909.784	2169.856
55.0	8239.826	7683.776	7016.128	3662.361	2592.959	2407.609	2234.875	1908.814	2097.075	2599.752
57.5	8645.461	8146.666	7612.936	4289.251	2538.616	2088.341	2036.909	1932.104	2188.294	2821.007
60.0	9239.357	8685.248	8396.064	5261.611	2589.077	1964.128	1774.896	1763.251	2149.478	2705.528
62.5	9965.231	9319.902	9137.464	6271.817	2741.433	1872.908	1632.244	1627.392	2039.820	2414.402
65.0	10694.015	9697.395	9430.530	6776.435	3061.671	1796.245	1508.031	1516.765	1907.843	2124.247
67.5	10966.703	9813.845	9566.389	6962.755	3436.253	1704.055	1380.906	1393.521	1734.138	1820.506
70.0	10870.632	9864.307	9772.117	6877.358	3788.515	1595.369	1230.491	1238.254	1522.587	1585.664
72.5	9841.017	9128.730	9128.730	6549.357	4028.208	1501.238	1063.579	1072.313	1308.125	1335.296
75.0	6683.274	6140.810	6223.296	5385.824	4005.889	1430.397	895.697	908.312	1092.692	1052.904
77.5	4127.191	3707.000	3753.580	4330.009	3771.047	1360.527	720.051	732.666	862.702	608.453
80.0	3166.477	2743.374	2840.416	3390.643	3382.880	1271.249	530.819	547.316	623.009	292.096
82.5	1482.800	1345.971	1503.179	2044.672	2672.533	1117.922	287.244	351.292	350.321	184.380
85.0	200.877	191.173	263.954	699.672	1532.291	723.932	126.154	140.711	111.598	87.338
87.5	23.290	20.379	23.290	48.521	396.901	250.368	27.172	29.113	22.320	17.468
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

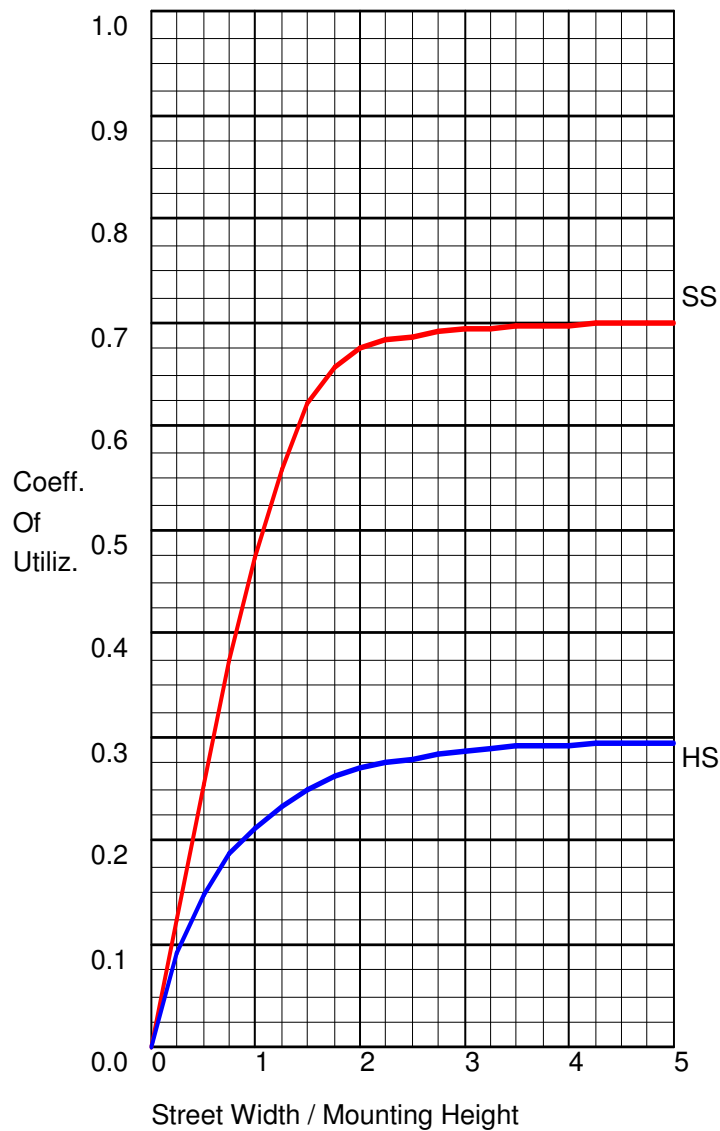
Vert. Horizontal Angles

	175.0	180.0
0.0	5476.073	5476.073
2.5	5170.391	5174.273
5.0	4643.454	4649.277
7.5	3729.319	3730.290
10.0	2729.788	2724.936
12.5	2520.178	2515.326
15.0	2492.036	2491.065
17.5	2479.420	2477.479
20.0	2447.396	2443.515
22.5	2383.349	2377.526
25.0	2302.804	2304.745
27.5	2218.377	2220.318
30.0	2145.596	2146.566
32.5	2076.696	2076.696
35.0	2008.767	2007.797
37.5	1940.838	1933.074
40.0	1858.352	1850.589
42.5	1765.192	1758.399
45.0	1684.647	1680.765
47.5	1640.978	1640.978
50.0	1801.097	1824.387
52.5	2282.425	2320.271
55.0	2827.800	2871.469
57.5	3181.033	3260.607
60.0	2976.274	2987.920
62.5	2513.385	2483.302
65.0	2084.460	2087.371

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-740-T3-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

67.5	1680.765	1665.239
70.0	1401.285	1391.581
72.5	1154.798	1142.183
75.0	793.803	787.980
77.5	441.541	438.629
80.0	295.007	287.244
82.5	188.261	188.261
85.0	69.870	58.225
87.5	7.763	2.911
90.0	0.000	0.000

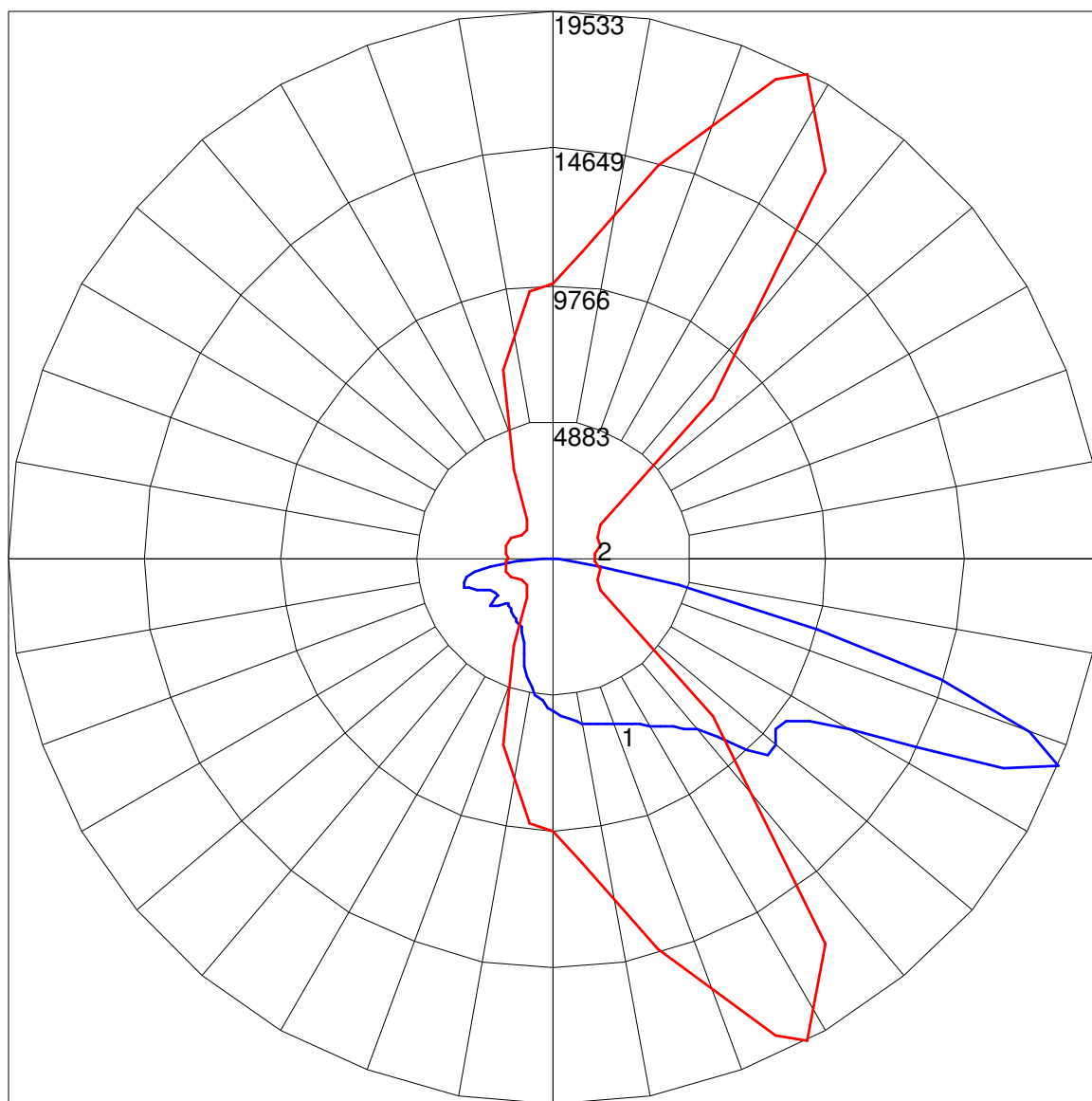
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

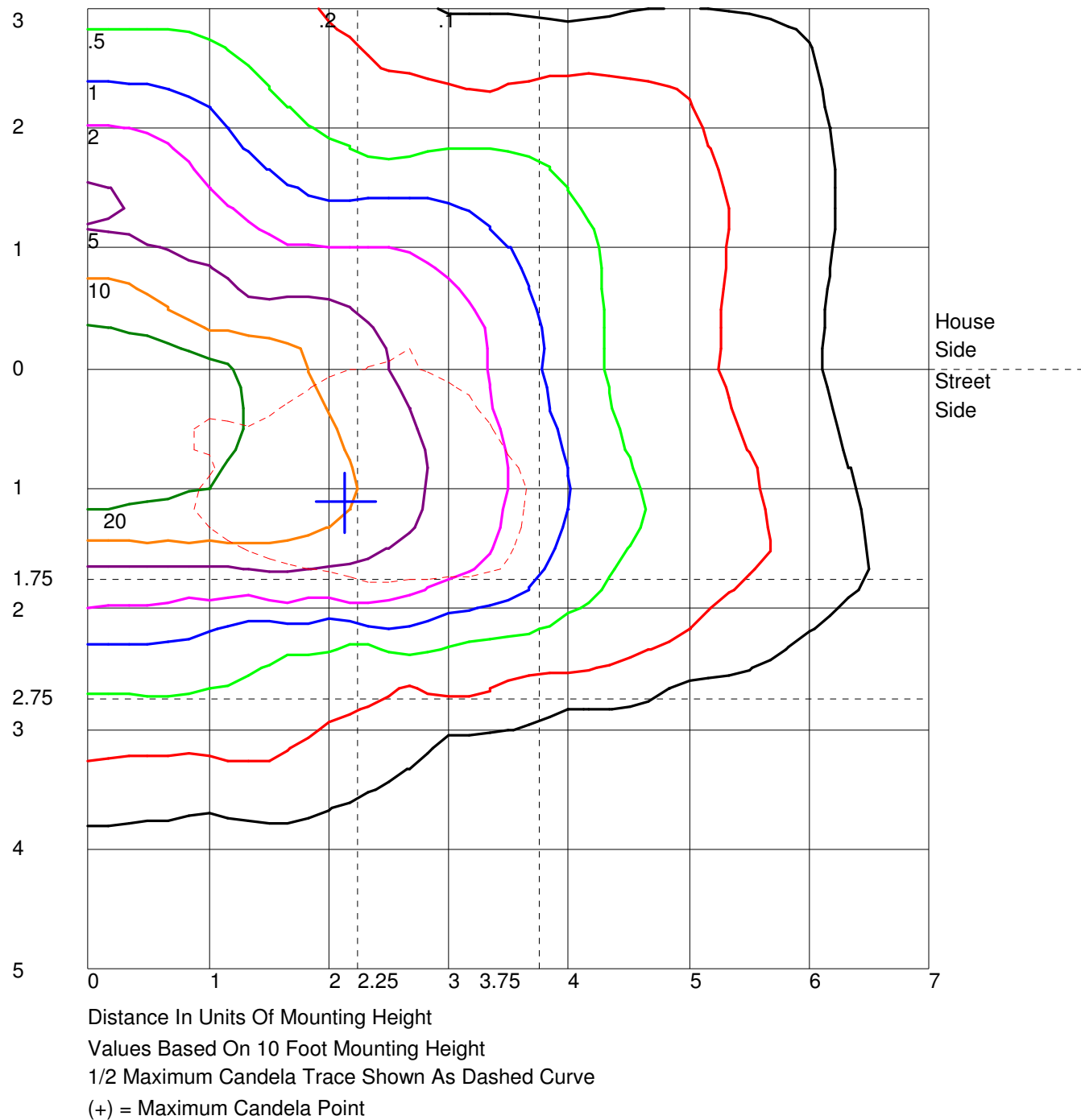
	Lumens	Percent Of Luminaire
Downward Street Side	18551.8	70.2
Downward House Side	7889.2	29.8
Downward Total	26441.0	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	26441.0	100.0

POLAR GRAPH

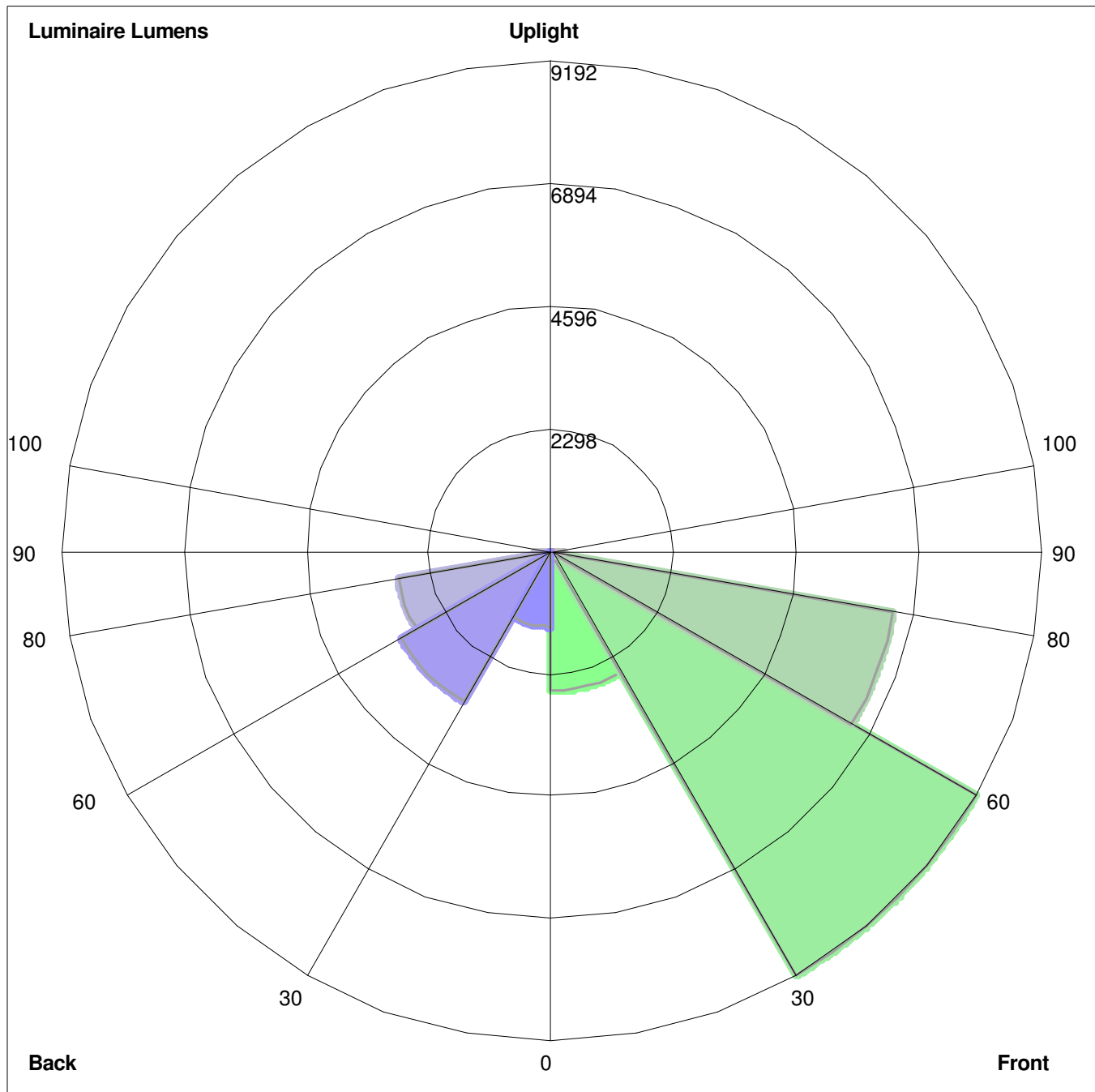


Maximum Candela = 19532.59 Located At Horizontal Angle = 62.5, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=2628.2, Medium=9192.2, High=6513.5, Very High=218.0
 Back: Low= 1415.0, Medium=3258.2, High=2917.2, Very High=298.8
 Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4