



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA2-L280-730-T4-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011773
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-730-T4-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT FIXTURE
[MORE] WITH TYPE IV 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 IV
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	25964
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	24733.775
Maximum Candela Angle	42.5H 72V
Maximum Candela (<90 Degrees Vertical)	24733.775
Maximum Candela Angle (<90 Degrees Vertical)	42.5H 72V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	1750.83 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-730-T4-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	1983.4	N.A.	7.6
FM - Front-Medium (30-60)	7993.5	N.A.	30.8
FH - Front-High (60-80)	9303.9	N.A.	35.8
FVH - Front-Very High (80-90)	163.6	N.A.	0.6
BL - Back-Low (0-30)	1315.9	N.A.	5.1
BM - Back-Medium (30-60)	3136.6	N.A.	12.1
BH - Back-High (60-80)	1944.0	N.A.	7.5
BVH - Back-Very High (80-90)	122.6	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	25963.5	N.A.	100.0
BUG Rating	B3-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>42.5</u>	<u>45.0</u>	<u>55.0</u>	<u>65.0</u>	<u>75.0</u>
0.0	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846
2.5	4383.162	4374.033	4386.205	4366.932	4325.342	4318.241	4298.968	4271.580	4217.817	4174.199
5.0	4743.269	4747.327	4754.427	4721.967	4667.190	4595.169	4576.910	4482.572	4355.774	4227.961
7.5	4945.132	4952.233	4957.305	4950.204	4894.413	4826.449	4802.104	4661.104	4481.558	4287.810
10.0	4989.765	4999.909	5004.981	5017.153	5001.938	4941.074	4921.801	4773.701	4591.111	4349.687
12.5	4978.607	4986.722	4984.693	5005.995	5015.125	4963.391	4946.146	4828.478	4674.291	4410.551
15.0	4950.204	4953.247	4943.103	4964.405	4988.751	4945.132	4926.873	4855.866	4738.197	4482.572
17.5	4915.715	4912.672	4901.513	4920.787	4934.988	4911.657	4902.528	4881.226	4799.060	4545.464
20.0	4842.679	4837.607	4847.751	4880.211	4882.240	4866.010	4864.996	4901.513	4800.075	4578.939
22.5	4742.255	4739.212	4808.190	4843.693	4824.420	4820.363	4832.535	4856.880	4787.902	4625.600
25.0	4669.219	4676.320	4801.089	4790.945	4772.686	4798.046	4819.348	4813.262	4805.147	4683.420
27.5	4664.147	4690.521	4788.917	4768.629	4762.543	4812.247	4837.607	4826.449	4846.737	4765.586
30.0	4750.370	4758.485	4793.989	4789.931	4821.377	4871.082	4891.370	4907.600	4929.916	4881.226
32.5	4879.197	4846.737	4863.981	4913.686	4956.290	4984.693	5003.966	5043.527	5058.743	5024.254
35.0	5050.628	4998.894	4999.909	5118.592	5136.851	5154.096	5157.139	5213.944	5213.944	5199.743
37.5	5332.628	5294.081	5263.649	5370.160	5398.563	5383.347	5365.088	5385.376	5379.289	5384.361
40.0	5696.792	5661.289	5618.684	5697.806	5746.497	5672.447	5647.087	5546.663	5554.778	5595.353
42.5	6077.187	6040.669	6023.424	6107.618	6179.640	6037.626	5973.719	5736.353	5758.670	5825.619
45.0	6528.589	6513.373	6505.258	6590.466	6668.574	6488.013	6391.647	6098.489	6015.309	6106.604
47.5	7068.242	7027.667	7048.969	7183.882	7135.192	7014.480	6922.170	6596.553	6372.373	6449.467
50.0	7631.226	7571.378	7580.507	7792.514	7669.773	7590.651	7520.658	7235.616	6863.336	6856.235
52.5	8382.886	8366.656	8166.822	8331.153	8250.002	8211.455	8198.268	8037.995	7473.996	7302.565
55.0	9654.926	9493.639	9070.640	8959.058	8899.209	8966.158	9058.467	8921.525	8177.980	7844.247
57.5	10948.269	10936.096	10392.385	9846.645	9606.236	9923.739	10152.990	9789.840	8924.569	8383.901
60.0	11587.332	11589.361	11623.850	11023.333	10454.263	11131.873	11533.569	10774.809	9602.178	8748.065
62.5	12122.928	12244.654	12579.402	12438.402	11638.051	112838.070	13477.133	11832.813	9980.544	8824.144
65.0	12848.214	13056.163	14133.441	14124.311	13335.119	15636.761	16393.493	13043.990	9695.502	8532.001
67.5	12209.151	12454.632	15059.575	16561.881	15791.962	19692.277	20344.527	13751.017	8609.094	7781.355
70.0	9888.235	9937.940	13667.838	18195.043	18217.359	23636.210	23813.727	12245.668	6674.660	5929.087
72.0	7205.184	7327.925	11084.196	17149.211	18212.287	24733.775	24317.877	8556.346	4719.938	3452.970
72.5	6333.827	6456.567	10218.925	16573.039	17900.871	24502.495	24070.367	7458.781	4240.134	2871.727
75.0	2485.246	2447.714	4478.514	10296.018	13348.306	18834.106	14979.439	2998.525	2525.821	1328.846
77.5	1613.888	1571.284	1436.371	2945.777	5015.125	5925.029	3015.770	1195.961	1386.666	852.084
80.0	1048.875	1175.673	872.372	1336.961	1750.830	1453.615	1031.631	681.667	803.394	560.955
82.5	533.567	642.106	513.279	670.509	733.401	574.143	554.869	390.539	420.970	315.474
85.0	225.194	300.258	209.978	254.611	280.985	206.935	206.935	162.302	174.474	129.841
87.5	55.791	81.151	32.460	32.460	48.691	30.432	25.360	27.388	27.388	20.288
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	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846	4078.846
2.5	4121.451	4083.918	4056.530	4004.796	3942.919	3890.171	3833.365	3800.905	3753.228	3738.013
5.0	4093.048	4017.983	3952.048	3829.307	3708.595	3610.200	3517.891	3466.157	3412.395	3393.121
7.5	4079.861	3972.336	3868.868	3683.236	3518.905	3395.150	3304.870	3259.222	3228.791	3224.733
10.0	4070.731	3928.717	3789.746	3546.294	3357.618	3242.992	3177.057	3170.971	3185.172	3214.589
12.5	4066.674	3887.127	3710.624	3413.409	3220.676	3135.467	3119.237	3159.813	3232.848	3315.014
15.0	4075.803	3854.667	3639.617	3291.683	3104.021	3053.302	3088.806	3180.100	3303.855	3424.567
17.5	4081.889	3824.235	3573.682	3182.129	3006.640	2988.381	3049.244	3170.971	3295.740	3416.452
20.0	4086.961	3794.818	3514.848	3085.762	2926.504	2930.561	2990.410	3086.777	3190.244	3313.999
22.5	4102.177	3773.516	3459.056	2996.496	2860.569	2876.799	2904.187	2960.993	3051.273	3170.971
25.0	4131.594	3766.415	3411.380	2923.461	2808.835	2821.008	2796.662	2832.166	2897.087	3015.770

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CANDELA TABULATION - (Cont.)

27.5	4186.371	3776.559	3378.920	2869.698	2770.288	2751.015	2696.238	2707.396	2765.216	2866.655
30.0	4268.537	3811.048	3367.762	2831.151	2740.871	2673.922	2606.972	2601.900	2642.476	2736.814
32.5	4382.148	3869.883	3372.834	2803.763	2719.569	2602.915	2525.821	2502.490	2539.008	2661.749
35.0	4526.191	3951.034	3395.150	2787.533	2698.267	2543.066	2450.757	2407.138	2482.203	2622.188
37.5	4706.751	4057.544	3439.783	2791.590	2661.749	2487.275	2365.548	2348.304	2445.685	2598.857
40.0	4944.118	4215.788	3518.905	2822.022	2619.145	2438.584	2289.469	2314.829	2410.181	2593.785
42.5	5238.290	4439.968	3642.660	2859.554	2589.728	2404.095	2247.880	2278.311	2384.822	2590.742
45.0	5588.253	4719.938	3826.264	2892.015	2577.555	2371.635	2234.692	2240.779	2362.505	2569.440
47.5	6003.137	5085.117	4064.645	2921.432	2573.497	2340.189	2211.362	2204.261	2330.045	2445.685
50.0	6478.884	5529.418	4346.644	2972.151	2577.555	2304.685	2174.844	2164.700	2197.160	2388.879
52.5	6991.149	5983.863	4662.118	3076.633	2598.857	2288.455	2135.283	2117.024	2078.477	2360.476
55.0	7590.651	6695.962	5238.290	3191.259	2624.217	2321.930	2140.355	2030.801	2029.787	2300.628
57.5	8520.843	7758.025	5777.943	3293.712	2728.698	2454.814	2260.052	2070.362	2075.434	2237.736
60.0	9540.301	8328.110	6155.295	3490.502	2849.410	2535.965	2362.505	2173.829	2238.750	2274.254
62.5	9536.243	8349.412	6546.848	3634.545	2848.396	2513.649	2323.958	2141.369	2365.548	2249.908
65.0	8879.936	8002.492	6354.114	3533.107	2831.151	2512.634	2231.649	1940.521	2231.649	2072.391
67.5	6602.639	5769.828	4321.285	2657.691	2591.756	2488.289	2139.340	1746.773	1985.154	1892.844
70.0	3178.072	2528.864	1836.039	1457.673	1844.154	2282.369	2090.650	1571.284	1754.888	1804.593
72.0	1609.831	1267.983	1064.091	954.537	1177.702	1923.276	2063.261	1409.997	1513.464	1652.435
72.5	1499.263	1142.199	976.854	892.660	1054.962	1871.542	2043.988	1367.392	1446.515	1602.730
75.0	893.674	751.660	671.524	648.193	708.041	1233.493	1758.945	1158.429	1123.940	1311.601
77.5	597.473	508.207	473.718	461.546	508.207	724.272	1329.860	992.070	885.559	1008.300
80.0	397.639	334.747	316.488	317.503	351.992	462.560	849.041	766.876	683.696	771.948
82.5	225.194	181.575	176.503	188.676	214.035	271.855	457.488	559.941	500.092	577.186
85.0	92.309	69.993	67.964	76.079	94.338	122.741	216.064	268.812	242.438	266.784
87.5	14.201	10.144	9.129	12.173	19.273	27.388	56.806	61.878	56.806	52.748
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

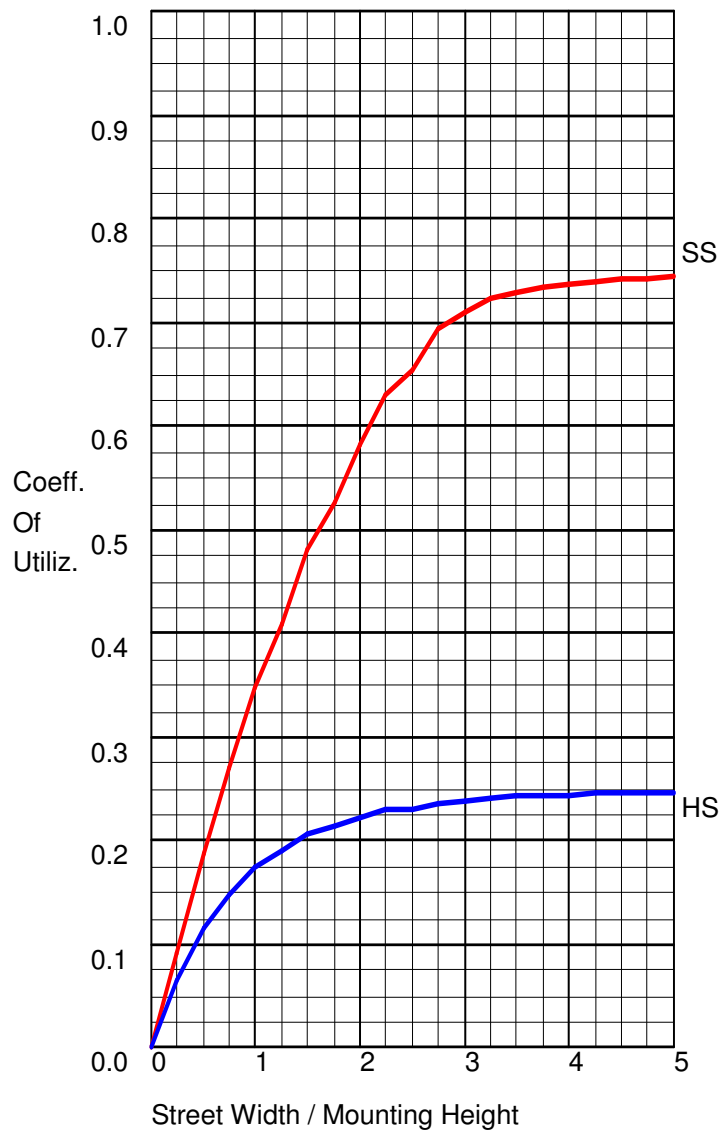
Vert. Angles Horizontal Angles

	<u>175.0</u>	<u>180.0</u>
0.0	4078.846	4078.846
2.5	3727.869	3740.041
5.0	3381.963	3390.078
7.5	3221.690	3223.719
10.0	3231.834	3229.805
12.5	3359.647	3357.618
15.0	3487.459	3488.474
17.5	3482.387	3490.502
20.0	3390.078	3403.265
22.5	3252.122	3270.381
25.0	3104.021	3119.237
27.5	2955.921	2971.137
30.0	2837.238	2850.425
32.5	2778.403	2795.648
35.0	2743.914	2762.173
37.5	2743.914	2756.087
40.0	2760.144	2763.188
42.5	2757.101	2761.159
45.0	2690.152	2688.123
47.5	2612.044	2624.217
50.0	2634.361	2647.548
52.5	2642.476	2649.576
55.0	2590.742	2600.886
57.5	2519.735	2533.936
60.0	2443.656	2456.843

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA2-L280-730-T4-F-S-XXX-DIM-UNV_.IES****CANDELA TABULATION - (Cont.)**

62.5	2310.771	2328.016
65.0	2123.110	2164.700
67.5	1925.305	1993.269
70.0	1715.327	1807.636
72.0	1555.054	1650.406
72.5	1512.450	1604.759
75.0	1259.867	1336.961
77.5	1048.875	1151.328
80.0	970.767	1056.990
82.5	539.653	582.258
85.0	190.705	182.589
87.5	25.360	6.086
90.0	0.000	0.000

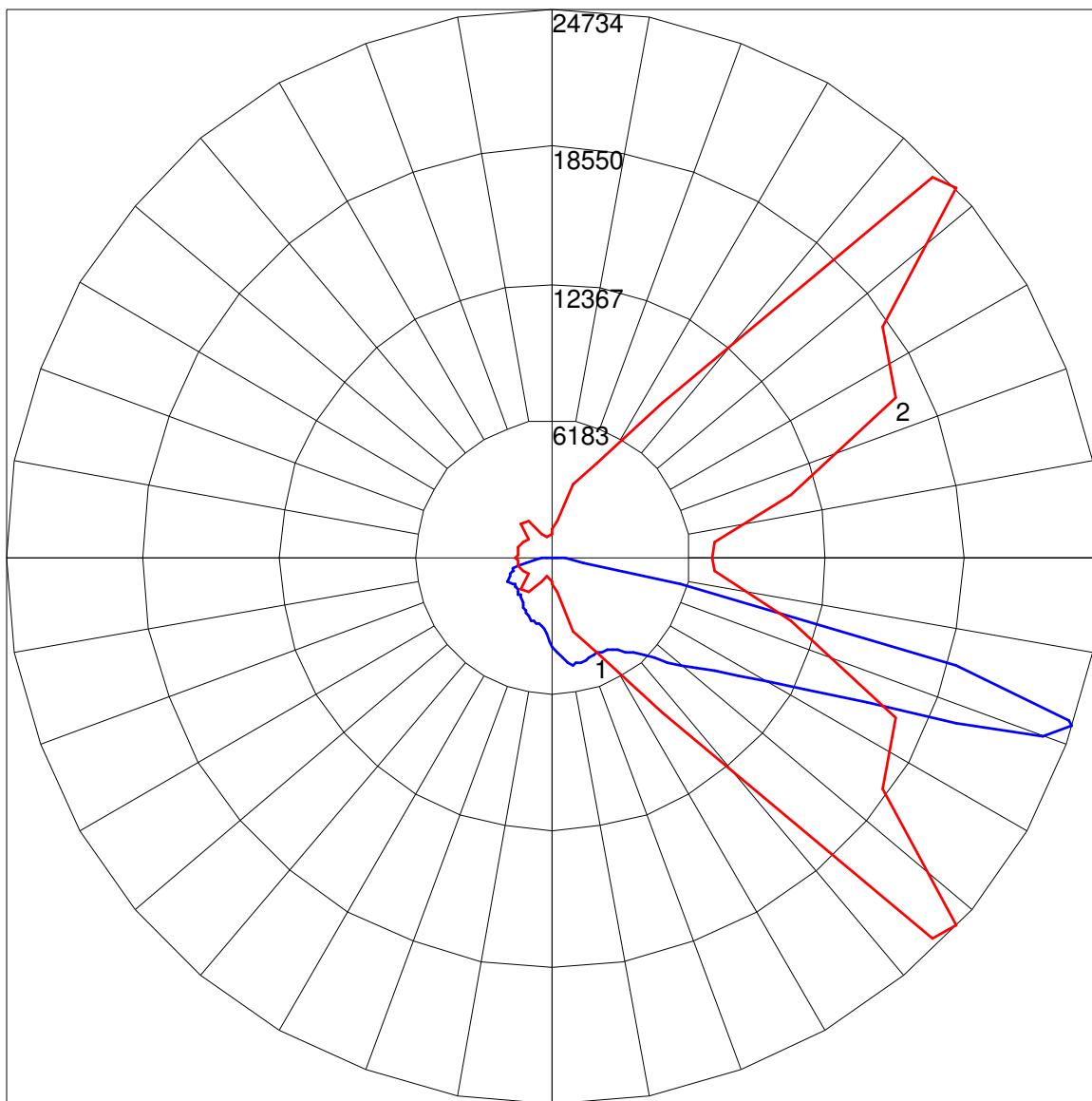
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

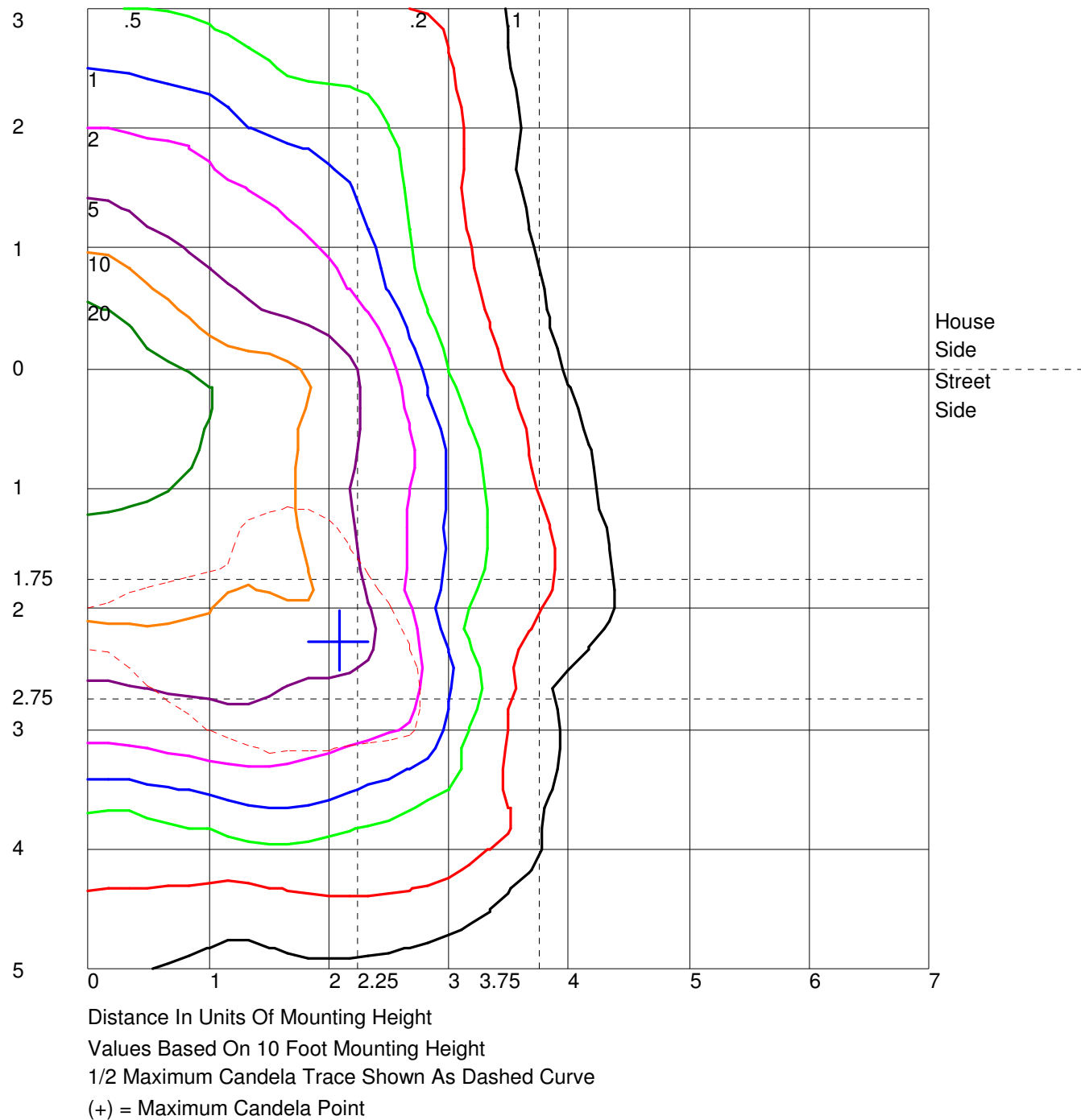
	Lumens	Percent Of Luminaire
Downward Street Side	19444.5	74.9
Downward House Side	6519.1	25.1
Downward Total	25963.6	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	25963.6	100.0

POLAR GRAPH

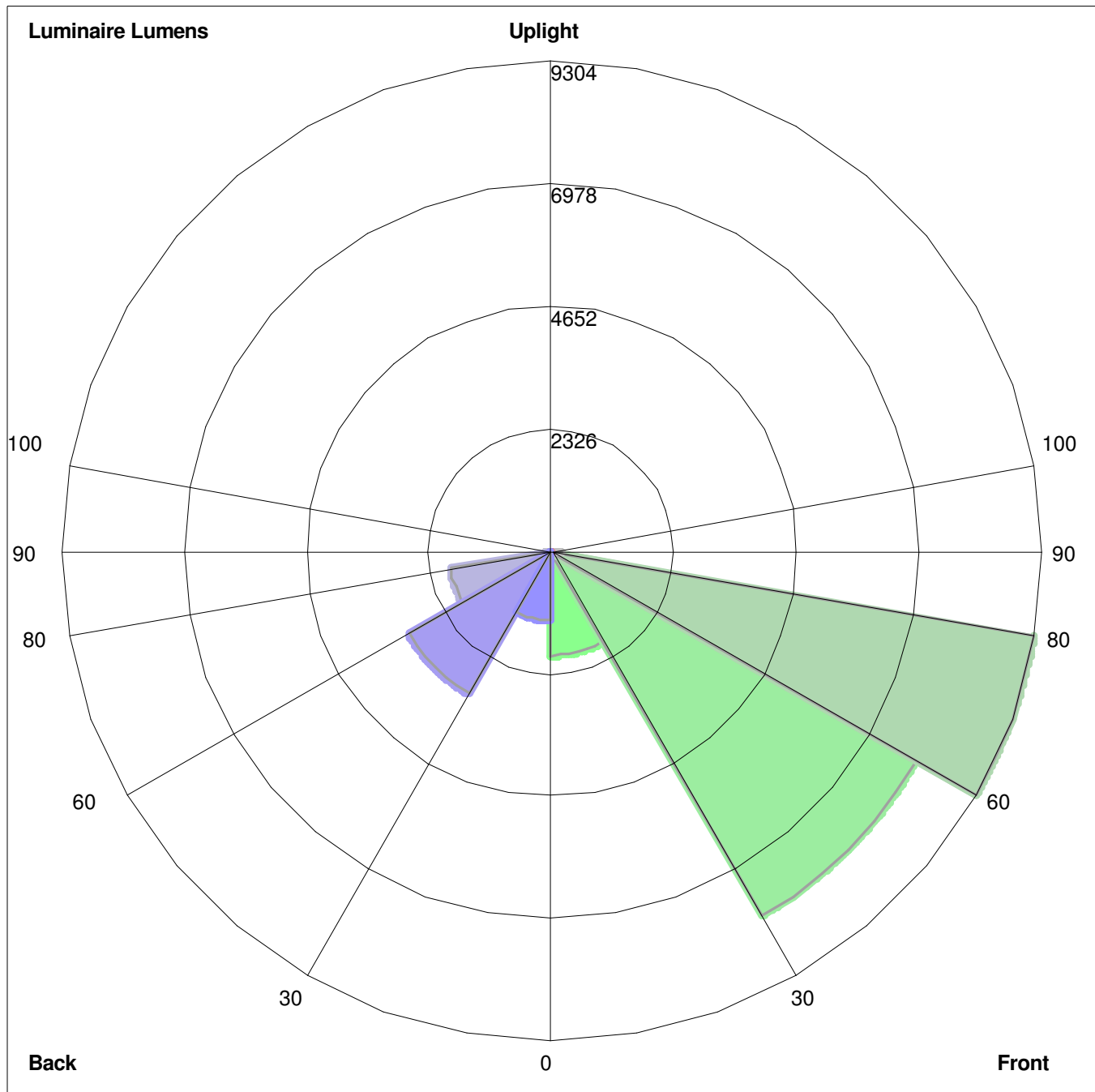


Maximum Candela = 24733.775 Located At Horizontal Angle = 42.5, Vertical Angle = 72
1 - Vertical Plane Through Horizontal Angles (42.5 - 222.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (72) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=1983.4, Medium=7993.5, High=9303.9, Very High=163.6
Back: Low=1315.9, Medium=3136.6, High= 1944.0, Very High=122.6
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G4