



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] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA2-L280-740-T3-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA2 ARCHITECTURAL LED AREA LIGHT
[MORE] WITH TYPE III OPTICS, CLEAR LENS,
[MORE] (2) LED MODULES AND (2) ELECTRONIC DRIVERS
[LAMP] LED
[_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	29239
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	128
Total Luminaire Watts	229
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	21599.539
Maximum Candela Angle	62.5H 67.5V
Maximum Candela (<90 Degrees Vertical)	21599.539
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	5014.639 (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)	2906.3	N.A.	9.9
FM - Front-Medium (30-60)	10164.9	N.A.	34.8
FH - Front-High (60-80)	7202.8	N.A.	24.6
FVH - Front-Very High (80-90)	241.0	N.A.	0.8
BL - Back-Low (0-30)	1564.7	N.A.	5.4
BM - Back-Medium (30-60)	3603.0	N.A.	12.3
BH - Back-High (60-80)	3225.9	N.A.	11.0
BVH - Back-Very High (80-90)	330.4	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	29239.0	N.A.	100.0
BUG Rating	B4-U0-G4		

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

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	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554
2.5	6297.004	6286.273	6286.273	6297.004	6266.957	6241.202	6237.983	6217.594	6200.424	6165.011
5.0	6553.477	6558.842	6553.477	6544.892	6506.260	6464.409	6441.874	6375.341	6353.879	6264.811
7.5	6596.401	6607.132	6606.059	6613.571	6614.644	6609.279	6598.547	6522.357	6501.968	6369.975
10.0	6555.623	6557.769	6555.623	6570.647	6596.401	6637.179	6675.811	6641.472	6627.521	6485.871
12.5	6542.746	6542.746	6528.795	6540.600	6571.720	6625.375	6696.200	6715.516	6720.882	6604.986
15.0	6598.547	6587.816	6564.208	6552.404	6577.085	6632.887	6711.224	6771.318	6784.195	6731.613
17.5	6705.858	6708.005	6676.884	6640.399	6635.033	6676.884	6755.221	6839.997	6852.874	6863.605
20.0	6850.728	6857.167	6829.266	6787.415	6769.172	6773.464	6845.363	6940.869	6960.185	7014.914
22.5	6966.624	6987.013	6966.624	6955.893	6944.089	6941.942	6996.671	7077.154	7107.201	7170.515
25.0	7064.277	7066.423	7058.911	7084.666	7134.029	7147.979	7185.538	7235.974	7272.460	7320.750
27.5	7158.710	7141.541	7116.859	7164.076	7290.703	7384.063	7406.599	7421.622	7437.719	7465.620
30.0	7241.340	7228.462	7197.342	7200.562	7370.113	7627.659	7672.730	7645.902	7630.878	7619.074
32.5	7253.144	7243.486	7255.290	7288.557	7429.134	7856.231	7972.127	7876.620	7851.939	7751.067
35.0	7233.828	7231.682	7274.606	7380.844	7614.782	8069.780	8310.156	8176.018	8099.827	7879.840
37.5	7188.757	7183.392	7257.436	7508.544	7932.422	8349.861	8693.256	8500.097	8370.250	7966.761
40.0	7105.055	7124.371	7240.267	7737.116	8640.674	9240.542	9214.787	8848.857	8683.598	8061.195
42.5	7067.496	7090.031	7197.342	7690.972	8828.468	10155.904	10305.066	9562.475	9237.323	8211.430
45.0	7404.452	7409.818	7358.309	7681.314	8667.502	10117.272	11164.626	10749.333	10391.988	8681.452
47.5	8124.508	8113.777	8071.926	8142.751	8702.914	9839.337	11253.694	11508.021	11382.467	9836.117
50.0	8092.315	8069.780	8312.303	8780.178	9216.933	9770.658	10882.399	11476.901	11440.415	10373.745
52.5	7504.251	7518.202	7990.370	8801.640	9839.337	10284.677	10688.166	11079.851	11110.971	10147.319
55.0	5917.123	5993.314	6976.282	8606.334	10327.601	111648.599	11266.572	11212.916	11271.937	10363.014
57.5	4362.188	4449.110	5449.248	7661.998	10471.398	13486.834	12874.089	12028.479	11960.873	10854.498
60.0	3443.607	3500.482	4096.057	5564.070	9479.845	15025.673	16107.367	13546.928	13299.040	11738.740
62.5	2667.749	2650.579	2960.708	3634.620	7180.173	14466.583	19860.029	16197.508	15443.112	13091.930
65.0	1875.795	1892.964	2074.320	2388.741	4273.120	12913.794	20542.526	19687.258	18474.645	14821.782
67.5	1619.322	1628.980	1846.821	1933.742	2257.821	8875.685	18674.243	21599.539	20862.313	16059.077
70.0	1292.023	1261.976	1553.862	1688.001	1668.685	3968.357	15393.749	20073.578	20605.840	16553.780
72.5	918.581	886.388	997.991	1421.869	1283.438	2059.296	9867.238	16064.442	17134.332	15481.744
75.0	700.740	692.155	711.471	1087.059	1031.258	1250.172	4276.339	10762.210	11856.782	11054.096
77.5	468.949	464.656	482.899	716.837	863.853	834.879	1738.437	5050.051	6180.035	7201.635
80.0	294.032	285.447	312.275	446.413	744.738	536.555	843.464	1862.917	2931.734	5014.639
82.5	153.455	154.528	172.771	259.692	508.654	301.544	428.171	679.278	999.065	2548.634
85.0	60.094	60.094	69.752	112.676	182.429	120.188	163.113	216.768	282.228	584.844
87.5	7.512	8.585	10.731	17.170	23.608	17.170	26.828	26.828	35.413	38.632
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	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554	6055.554
2.5	6110.283	6104.917	6067.358	6011.557	5943.951	5869.906	5829.128	5782.985	5710.013	5691.770
5.0	6145.695	6098.479	6025.507	5892.442	5746.499	5581.240	5457.833	5337.644	5229.260	5161.654
7.5	6199.351	6113.502	6002.972	5785.131	5540.462	5256.088	4983.518	4704.510	4422.282	4215.172
10.0	6271.249	6139.257	5997.606	5686.405	5314.036	4835.429	4260.243	3715.103	3289.079	3086.262
12.5	6354.952	6180.035	6006.191	5587.679	5045.759	4232.342	3401.756	2981.097	2838.373	2798.668
15.0	6456.897	6243.348	6031.946	5493.245	4692.706	3544.479	2947.831	2819.057	2779.352	2761.110
17.5	6582.451	6329.197	6077.016	5392.373	4236.634	3077.677	2850.178	2791.157	2760.036	2747.159
20.0	6724.101	6441.874	6142.476	5286.135	3735.493	2899.541	2819.057	2776.133	2740.720	2714.966
22.5	6880.775	6568.500	6214.374	5159.508	3330.930	2855.543	2796.522	2746.086	2696.723	2650.579
25.0	7034.230	6690.835	6278.761	4994.249	3083.042	2833.008	2760.036	2685.992	2623.752	2572.242
27.5	7190.904	6820.681	6338.855	4788.212	2963.927	2806.180	2698.869	2617.313	2551.853	2490.686

IES ROAD REPORT

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

CANDELA TABULATION - (Cont.)

30.0	7345.431	6953.747	6406.461	4556.421	2910.272	2762.183	2628.044	2534.684	2470.297	2415.568
32.5	7481.716	7068.569	6466.555	4307.460	2868.420	2702.089	2552.926	2448.835	2391.960	2347.963
35.0	7579.369	7141.541	6504.114	4060.645	2814.765	2629.117	2475.663	2360.840	2313.623	2268.552
37.5	7607.270	7154.418	6504.114	3844.950	2752.525	2548.634	2398.399	2276.064	2230.994	2182.704
40.0	7637.317	7169.441	6495.529	3678.618	2693.504	2471.370	2326.500	2199.874	2151.584	2092.563
42.5	7675.949	7171.588	6488.017	3545.552	2649.506	2402.691	2253.529	2132.268	2057.150	1997.056
45.0	7901.302	7362.601	6632.887	3488.677	2604.436	2344.743	2199.874	2072.174	1957.351	1899.403
47.5	8673.940	7995.735	7223.097	3778.417	2679.553	2311.477	2165.534	2041.053	1892.964	1844.674
50.0	9101.038	8434.637	7622.293	4215.172	3092.700	2417.715	2165.534	2065.735	1932.669	1976.667
52.5	8872.465	8229.673	7416.257	3984.454	3248.301	2787.937	2229.921	2099.001	2111.879	2399.472
55.0	9111.769	8496.877	7758.578	4049.913	2867.347	2662.384	2471.370	2110.805	2318.989	2874.859
57.5	9560.328	9008.750	8418.540	4743.142	2807.253	2309.331	2252.456	2136.560	2419.861	3119.528
60.0	10217.071	9604.326	9284.539	5818.397	2863.055	2171.973	1962.716	1949.839	2376.937	2991.828
62.5	11019.757	10306.139	10104.395	6935.504	3031.533	2071.100	1804.969	1799.604	2255.675	2669.895
65.0	11825.662	10723.579	10428.474	7493.520	3385.659	1986.325	1667.611	1677.269	2109.732	2349.036
67.5	12127.205	10852.352	10578.709	7699.557	3799.879	1884.379	1527.034	1540.985	1917.646	2013.153
70.0	12020.967	10908.153	10806.208	7605.124	4189.418	1764.191	1360.702	1369.287	1683.708	1753.460
72.5	10882.399	10094.737	10094.737	7242.413	4454.476	1660.100	1176.127	1185.785	1446.551	1476.598
75.0	7390.502	6790.634	6881.848	5955.755	4429.794	1581.763	990.480	1004.430	1208.321	1164.323
77.5	4563.933	4099.276	4150.786	4788.212	4170.102	1504.499	796.247	810.197	953.994	672.839
80.0	3501.555	3033.679	3140.990	3749.443	3740.858	1405.773	586.991	605.233	688.936	323.006
82.5	1639.711	1488.402	1662.246	2261.041	2955.342	1236.222	317.640	388.465	387.392	203.891
85.0	222.134	211.402	291.886	773.712	1694.439	800.539	139.504	155.601	123.408	96.580
87.5	25.755	22.535	25.755	53.655	438.902	276.862	30.047	32.193	24.682	19.316
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

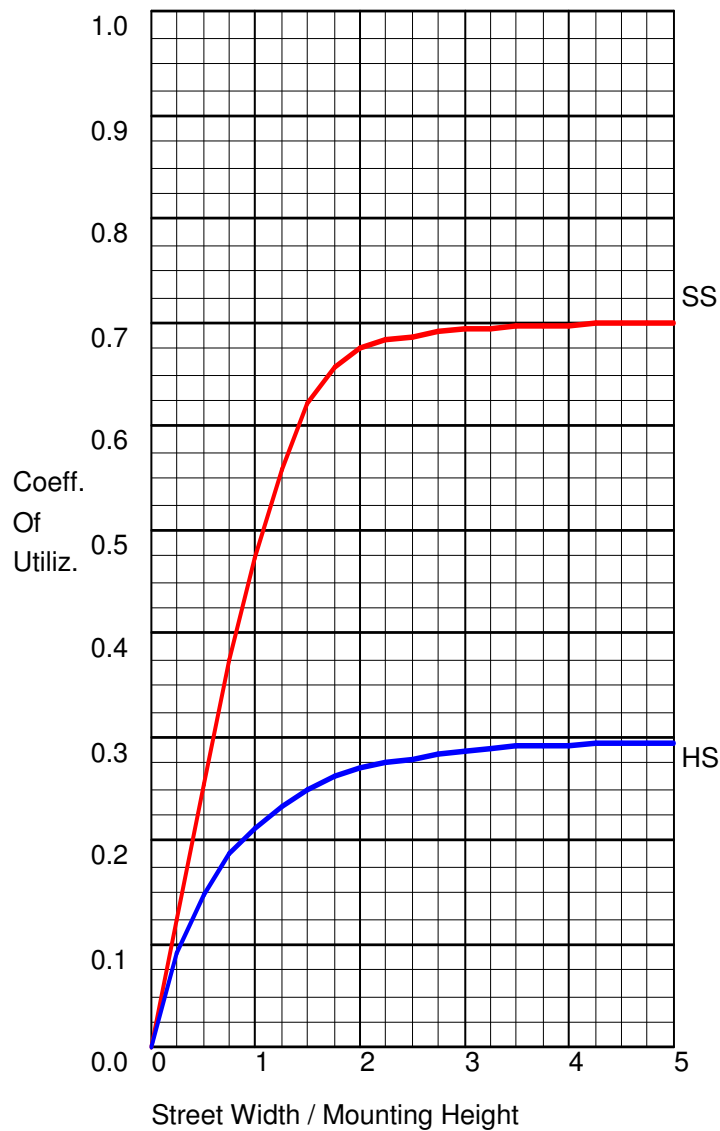
	<u>175.0</u>	<u>180.0</u>
0.0	6055.554	6055.554
2.5	5717.525	5721.817
5.0	5134.827	5141.265
7.5	4123.958	4125.031
10.0	3018.656	3013.290
12.5	2786.864	2781.499
15.0	2755.744	2754.671
17.5	2741.794	2739.647
20.0	2706.381	2702.089
22.5	2635.556	2629.117
25.0	2546.488	2548.634
27.5	2453.127	2455.273
30.0	2372.644	2373.717
32.5	2296.453	2296.453
35.0	2221.336	2220.263
37.5	2146.218	2137.633
40.0	2055.004	2046.419
42.5	1951.985	1944.474
45.0	1862.917	1858.625
47.5	1814.627	1814.627
50.0	1991.690	2017.445
52.5	2523.952	2565.804
55.0	3127.040	3175.330
57.5	3517.651	3605.646
60.0	3291.225	3304.103
62.5	2779.352	2746.086
65.0	2305.038	2308.258

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

CANDELA TABULATION - (Cont.)

67.5	1858.625	1841.455
70.0	1549.569	1538.838
72.5	1277.000	1263.049
75.0	877.803	871.365
77.5	488.265	485.045
80.0	326.225	317.640
82.5	208.183	208.183
85.0	77.264	64.387
87.5	8.585	3.219
90.0	0.000	0.000

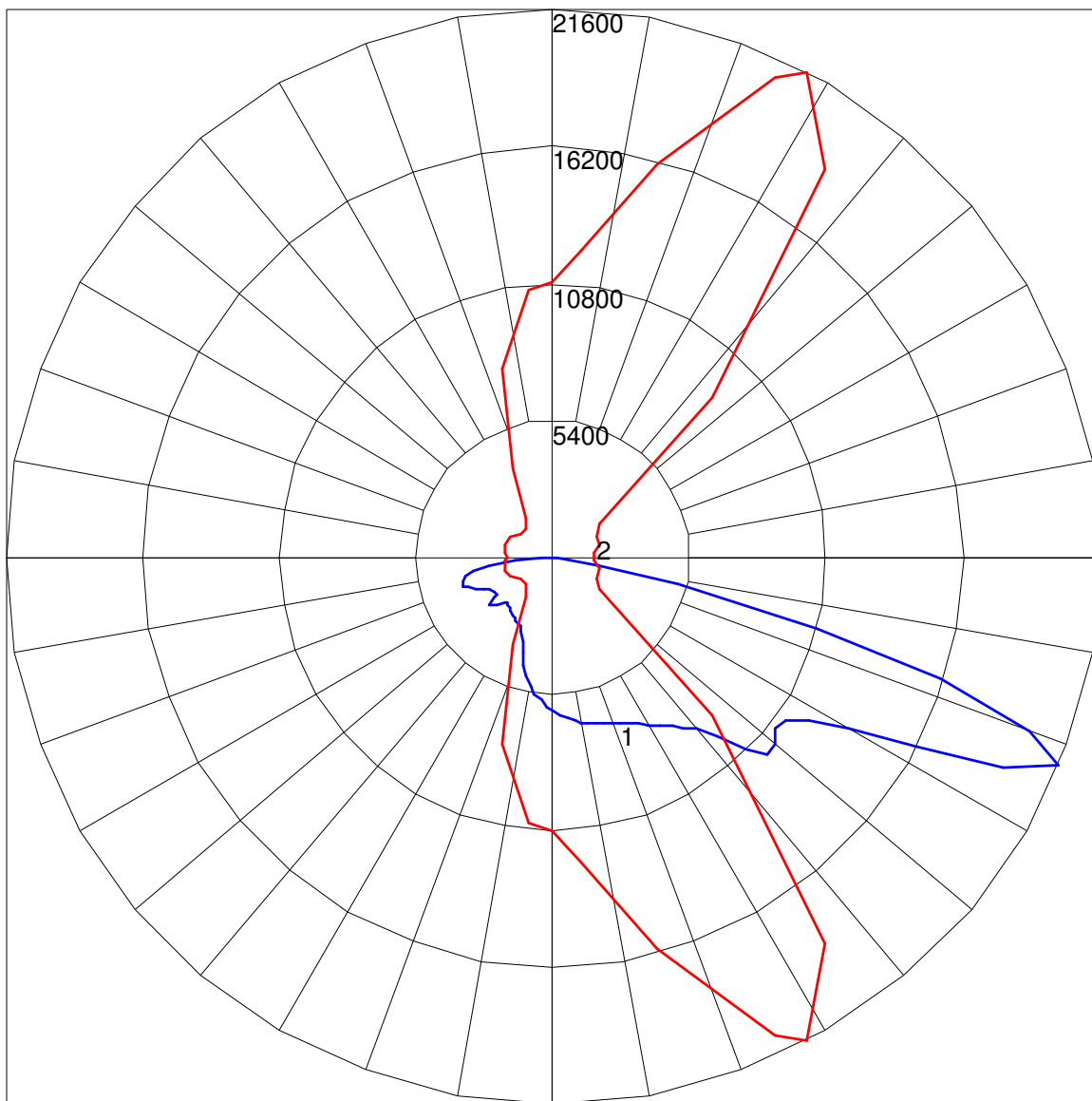
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

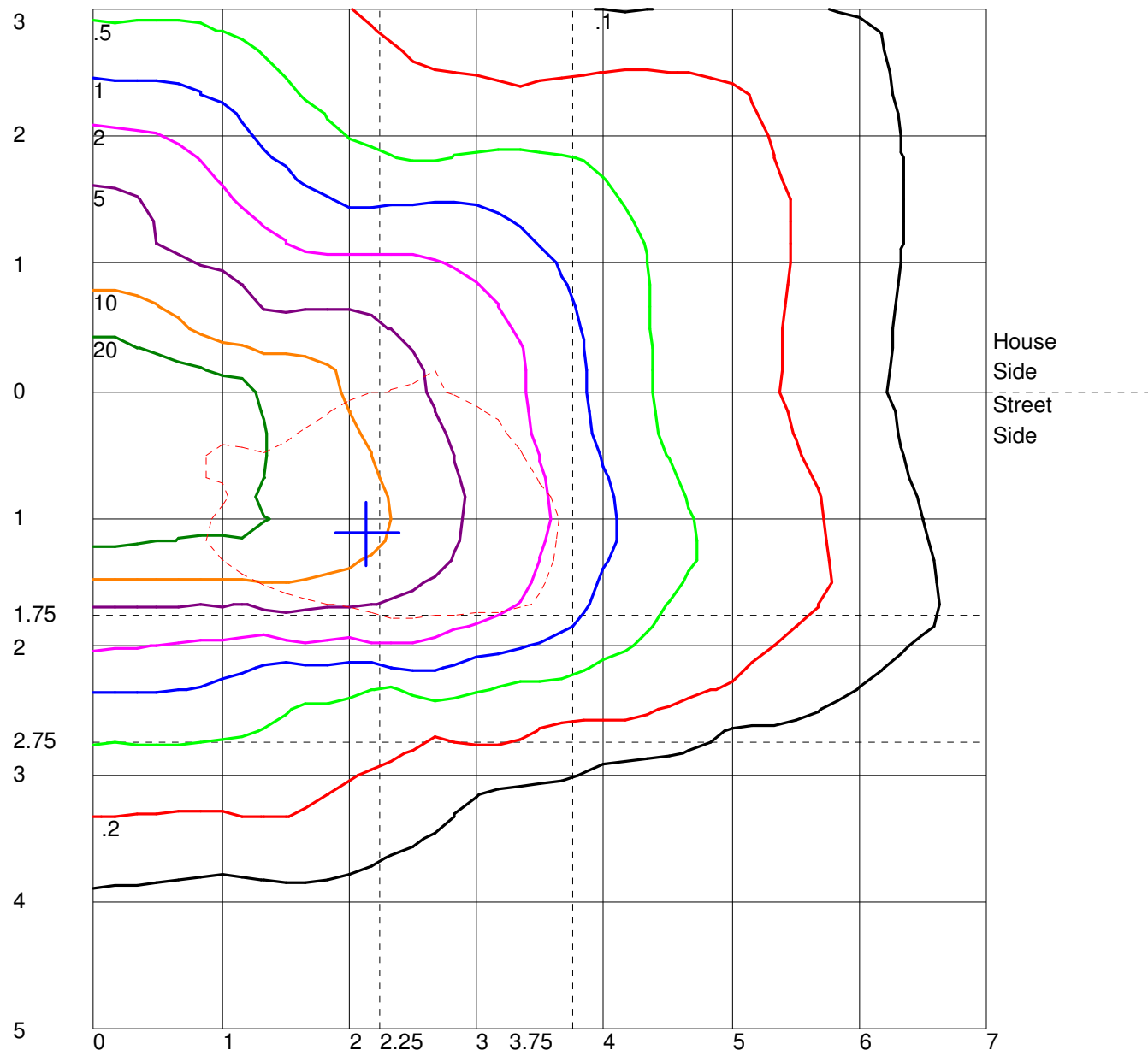
	Lumens	Percent Of Luminaire
Downward Street Side	20515.0	70.2
Downward House Side	8724.1	29.8
Downward Total	29239.1	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	29239.1	100.0

POLAR GRAPH



Maximum Candela = 21599.539 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



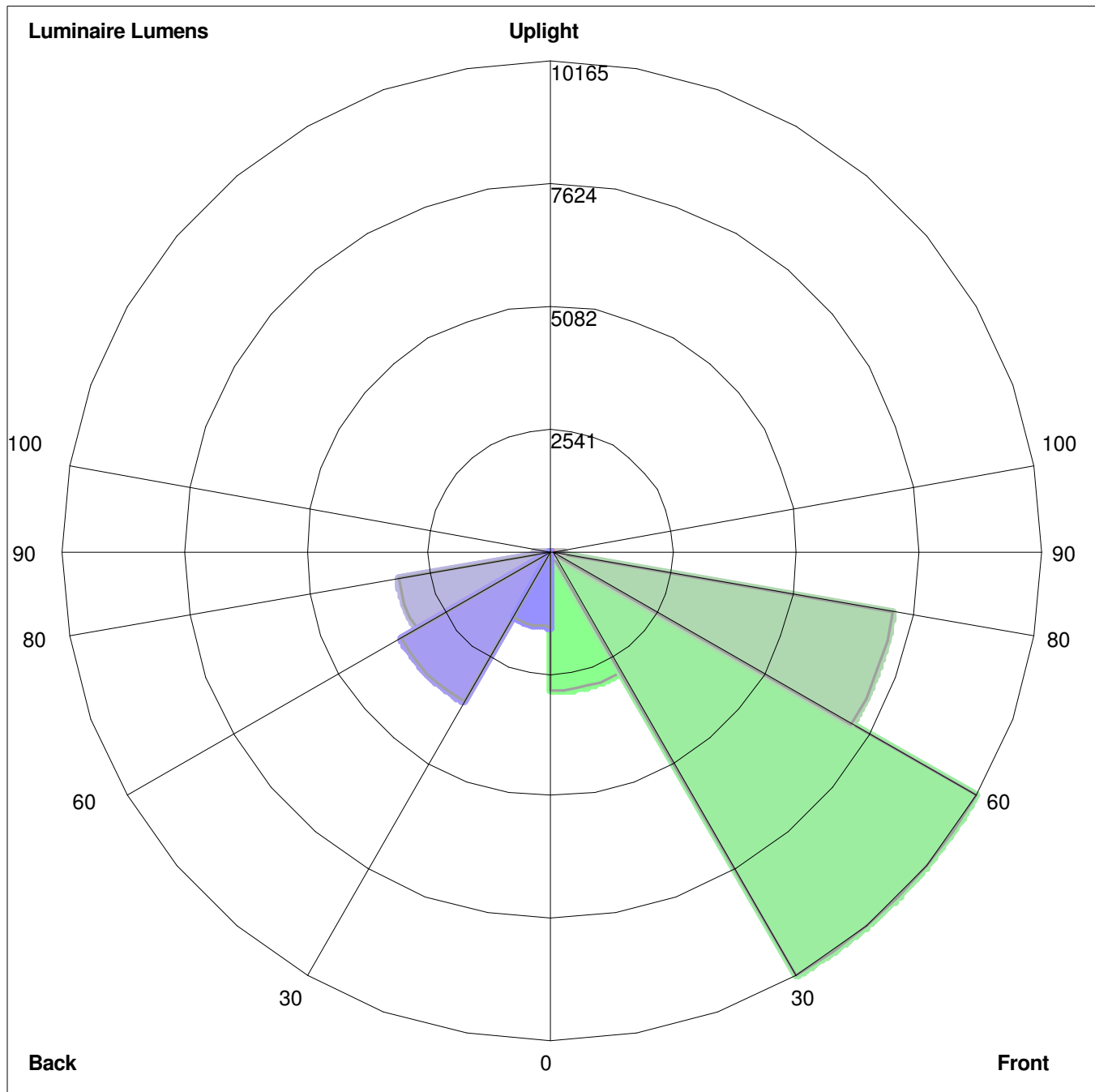
Distance In Units Of Mounting Height

Values Based On 10 Foot Mounting Height

1/2 Maximum Candela Trace Shown As Dashed Curve

(+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=2906.3, Medium=10164.9, High=7202.8, Very High=241.0
Back: Low=1564.7, Medium= 3603.0, High=3225.9, Very High=330.4
Uplight: Low=0.0, High=0.0

BUG Rating : B4-U0-G4