



IES ROAD REPORT

PHOTOMETRIC FILENAME : VA1-L110-730-T5-F-S-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM ATAL011764
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-01-18
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VA1-L110-730-T5-F-S-xxx-DIM-UNV_
[LUMINAIRE] VA1 LED AREA LIGHT FIXTURE WITH TYPE
[MORE] VSM OPTICS AND CLEAR LENS
[LAMP] LED
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Parking, Site
[SEARCH_MOUNTING] Pole

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10665
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	88
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	5034.466
Maximum Candela Angle	45H 67.5V
Maximum Candela (<90 Degrees Vertical)	5034.466
Maximum Candela Angle (<90 Degrees Vertical)	45H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	241.574 (2.3% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VA1-L110-730-T5-F-S-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	547.4	N.A.	5.1
FM - Front-Medium (30-60)	2489.9	N.A.	23.3
FH - Front-High (60-80)	2259.2	N.A.	21.2
FVH - Front-Very High (80-90)	36.1	N.A.	0.3
BL - Back-Low (0-30)	547.4	N.A.	5.1
BM - Back-Medium (30-60)	2489.9	N.A.	23.3
BH - Back-High (60-80)	2259.2	N.A.	21.2
BVH - Back-Very High (80-90)	36.1	N.A.	0.3
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	10665.2	N.A.	100.0
BUG Rating	B3-U0-G2		

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CANDELA TABULATION

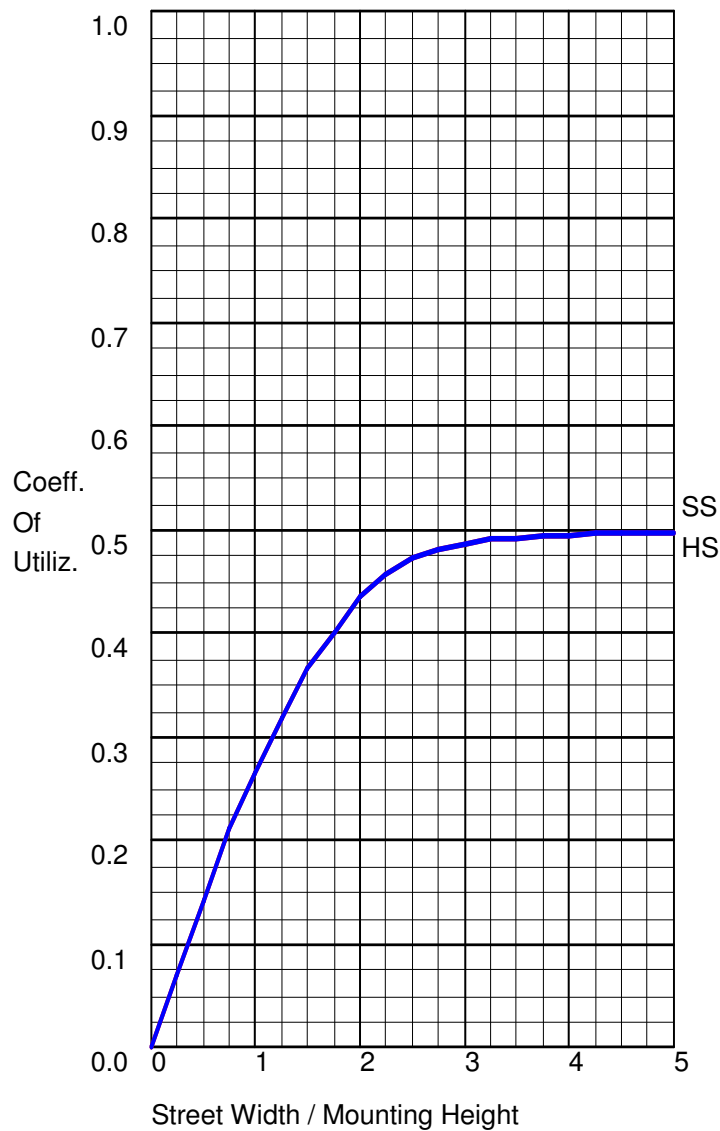
Vert. Angles	Horizontal Angles									
	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053
2.5	1165.581	1166.639	1166.639	1165.581	1166.110	1165.581	1165.581	1165.053	1165.581	1166.110
5.0	1173.510	1175.625	1175.096	1174.039	1174.568	1174.039	1173.510	1172.453	1173.510	1174.568
7.5	1187.783	1190.426	1190.426	1188.840	1188.840	1188.840	1189.369	1188.312	1188.840	1191.483
10.0	1205.227	1207.341	1207.870	1206.284	1206.813	1207.341	1207.870	1207.870	1208.927	1211.042
12.5	1222.142	1224.785	1225.843	1224.257	1224.785	1226.371	1227.429	1227.957	1229.014	1230.600
15.0	1242.230	1244.344	1243.815	1244.344	1243.815	1244.873	1245.401	1246.987	1248.573	1249.101
17.5	1263.902	1266.546	1265.488	1266.017	1264.431	1265.488	1264.960	1265.488	1267.074	1267.603
20.0	1290.862	1291.919	1290.333	1290.333	1288.218	1287.161	1287.161	1287.161	1287.161	1287.690
22.5	1317.292	1317.821	1316.235	1315.178	1313.063	1312.006	1311.477	1309.891	1309.363	1309.363
25.0	1348.480	1349.008	1346.894	1345.308	1341.608	1340.022	1338.965	1336.850	1336.322	1335.793
27.5	1390.240	1388.125	1384.954	1382.839	1377.553	1375.967	1373.324	1370.153	1369.624	1369.624
30.0	1437.286	1434.643	1432.000	1430.414	1424.071	1421.956	1417.199	1412.970	1413.499	1414.027
32.5	1493.847	1491.733	1488.032	1489.090	1482.746	1481.689	1475.874	1470.060	1467.417	1467.945
35.0	1560.980	1558.866	1557.809	1558.866	1553.051	1552.523	1549.351	1543.008	1541.422	1539.307
37.5	1640.272	1639.214	1640.272	1642.386	1639.214	1641.329	1640.800	1635.514	1632.342	1629.171
40.0	1727.492	1731.192	1731.721	1739.650	1740.707	1747.579	1749.165	1747.051	1748.636	1745.993
42.5	1824.227	1827.928	1830.571	1842.200	1851.186	1866.516	1870.745	1875.502	1877.088	1884.489
45.0	1925.720	1927.835	1932.592	1949.507	1964.309	1989.682	2000.254	2009.240	2016.641	2025.098
47.5	2035.671	2039.900	2040.428	2065.273	2091.175	2122.362	2132.406	2146.678	2159.365	2167.823
50.0	2165.708	2169.409	2174.166	2202.711	2238.128	2283.588	2294.689	2306.847	2319.005	2330.634
52.5	2323.234	2324.291	2330.634	2376.094	2422.083	2486.574	2498.732	2515.118	2522.519	2536.791
55.0	2492.388	2497.146	2518.819	2588.066	2665.243	2741.363	2772.022	2787.352	2796.338	2815.368
57.5	2674.758	2680.573	2718.633	2822.768	2946.463	3061.171	3115.089	3129.361	3138.348	3162.664
60.0	2853.428	2868.757	2938.534	3080.729	3262.571	3429.082	3522.117	3546.433	3545.376	3558.063
62.5	2923.204	2955.449	3082.315	3284.244	3542.733	3804.923	3976.192	4029.053	4034.867	4037.510
65.0	2721.804	2748.763	2941.177	3207.067	3569.692	3965.091	4311.858	4481.541	4589.906	4630.609
67.5	2177.338	2180.509	2414.683	2718.104	3151.034	3657.441	4187.635	4608.936	4904.428	5034.466
70.0	1304.605	1294.033	1495.433	1762.909	2177.866	2722.861	3382.036	3998.922	4430.266	4621.623
72.5	615.300	603.671	703.049	819.872	1086.819	1399.755	1950.565	2538.377	2979.765	3211.824
75.0	321.394	318.751	345.181	369.497	441.388	524.379	736.351	1038.187	1315.706	1511.291
77.5	197.171	199.285	216.201	229.945	253.732	273.291	315.579	374.783	449.846	495.306
80.0	132.681	132.681	139.024	152.239	169.683	179.727	199.814	216.729	235.231	241.574
82.5	82.992	82.463	85.106	91.449	105.722	112.065	122.637	130.038	136.910	134.267
85.0	30.131	30.659	35.945	41.231	51.804	53.918	59.204	62.376	60.790	58.676
87.5	4.757	5.286	6.872	8.986	12.158	13.215	16.387	18.501	19.030	19.030
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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
0.0	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053	1165.053
2.5	1165.581	1165.053	1166.110	1166.110	1166.639	1166.639	1165.581	1166.110	1166.110
5.0	1173.510	1173.510	1174.568	1174.568	1175.625	1176.154	1175.096	1176.154	1177.739
7.5	1189.897	1189.369	1190.426	1190.955	1192.012	1192.540	1192.012	1193.598	1196.241
10.0	1209.984	1209.456	1210.513	1210.513	1211.570	1212.099	1211.570	1213.685	1217.385
12.5	1230.072	1229.543	1230.072	1230.600	1231.657	1230.600	1231.129	1233.772	1239.058
15.0	1249.101	1248.044	1248.044	1248.573	1249.630	1249.630	1250.687	1254.388	1260.202
17.5	1267.074	1266.017	1267.603	1267.603	1268.660	1270.774	1272.360	1277.118	1283.990
20.0	1286.633	1286.104	1288.218	1288.747	1291.919	1294.562	1296.676	1303.020	1310.420
22.5	1307.777	1307.248	1310.949	1313.063	1317.292	1320.464	1324.692	1331.564	1337.908
25.0	1334.736	1334.736	1338.965	1342.137	1347.423	1352.180	1356.409	1363.809	1370.681
27.5	1369.624	1369.624	1373.324	1378.611	1383.368	1388.125	1393.412	1399.226	1405.570

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30.0	1414.027	1414.556	1417.728	1422.485	1427.771	1432.529	1437.815	1442.572	1447.330
32.5	1469.003	1471.117	1475.346	1480.632	1484.861	1488.032	1491.733	1494.904	1499.133
35.0	1541.422	1543.536	1548.822	1555.166	1556.752	1560.452	1560.980	1565.738	1568.381
37.5	1632.871	1633.400	1639.214	1643.972	1647.144	1647.144	1647.144	1647.672	1652.430
40.0	1747.579	1744.936	1751.279	1753.922	1753.922	1744.407	1741.764	1741.236	1744.936
42.5	1880.260	1874.974	1877.088	1874.445	1864.930	1846.957	1839.557	1839.557	1846.429
45.0	2023.513	2011.883	2006.597	1997.082	1978.581	1955.851	1945.279	1941.050	1953.736
47.5	2166.237	2155.665	2143.507	2133.463	2104.390	2077.959	2065.801	2058.929	2068.973
50.0	2330.634	2325.348	2312.661	2300.503	2260.329	2223.327	2206.411	2196.896	2207.468
52.5	2544.192	2547.892	2539.963	2506.132	2448.514	2394.596	2366.051	2353.364	2360.765
55.0	2831.755	2841.798	2825.411	2764.622	2684.273	2601.282	2553.178	2528.334	2531.505
57.5	3183.279	3193.323	3173.236	3077.558	2979.237	2851.842	2773.608	2727.090	2719.161
60.0	3591.365	3600.351	3587.665	3475.600	3342.390	3161.078	3032.097	2956.506	2942.234
62.5	4063.941	4090.900	4077.156	3916.459	3684.400	3422.739	3213.410	3080.729	3039.498
65.0	4639.595	4615.279	4468.326	4127.902	3735.146	3358.777	3080.201	2879.858	2807.439
67.5	4979.490	4736.859	4348.332	3828.710	3330.761	2877.744	2535.734	2306.318	2212.226
70.0	4530.173	4137.946	3554.891	2917.918	2342.792	1898.761	1543.008	1363.809	1284.518
72.5	3135.176	2683.216	2010.297	1391.826	1001.184	826.215	684.019	624.286	595.213
75.0	1366.453	1015.985	663.403	520.151	441.388	402.800	363.154	346.767	337.252
77.5	428.173	367.911	321.394	293.906	269.590	251.089	232.059	215.672	208.800
80.0	238.402	220.430	205.629	191.356	179.198	165.454	145.896	139.024	136.381
82.5	137.967	132.152	125.809	117.351	109.951	98.850	87.220	86.163	87.749
85.0	60.261	60.790	58.676	54.975	52.332	45.989	41.760	41.231	41.231
87.5	19.559	19.030	16.915	15.858	14.801	13.744	11.629	12.158	11.629
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

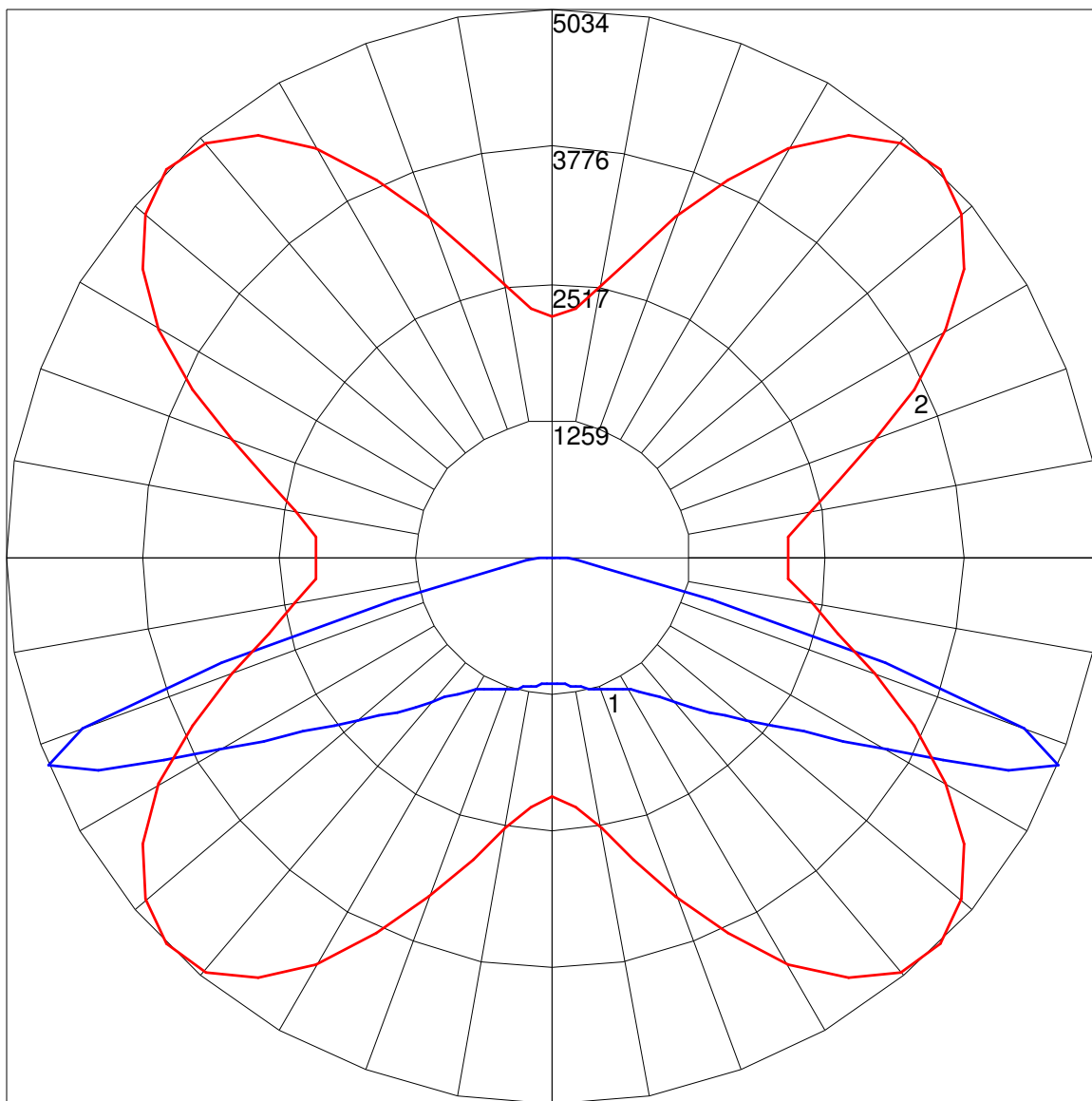
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

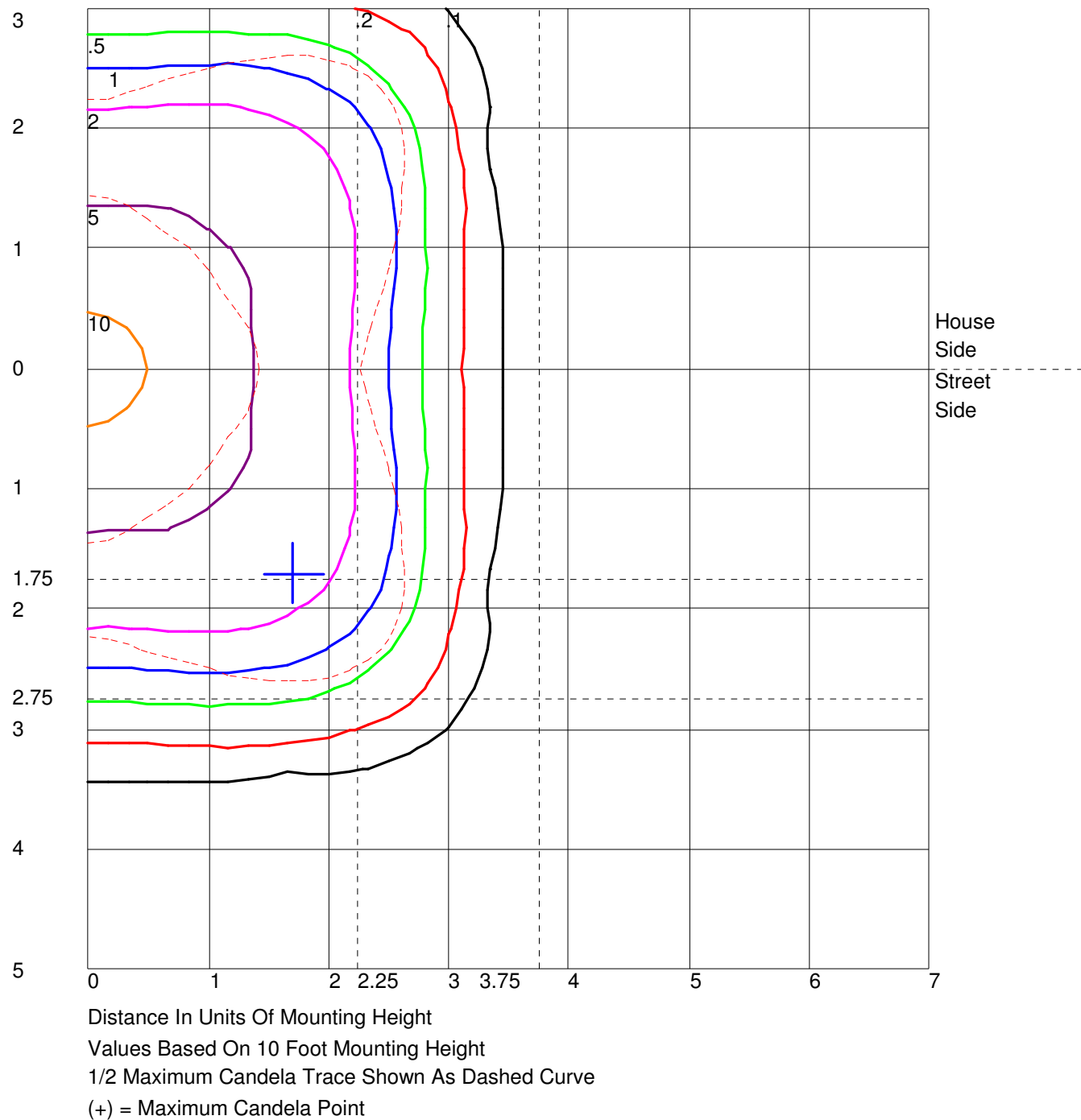
	Lumens	Percent Of Luminaire
Downward Street Side	5332.7	50.0
Downward House Side	5332.7	50.0
Downward Total	10665.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	10665.4	100.0

POLAR GRAPH

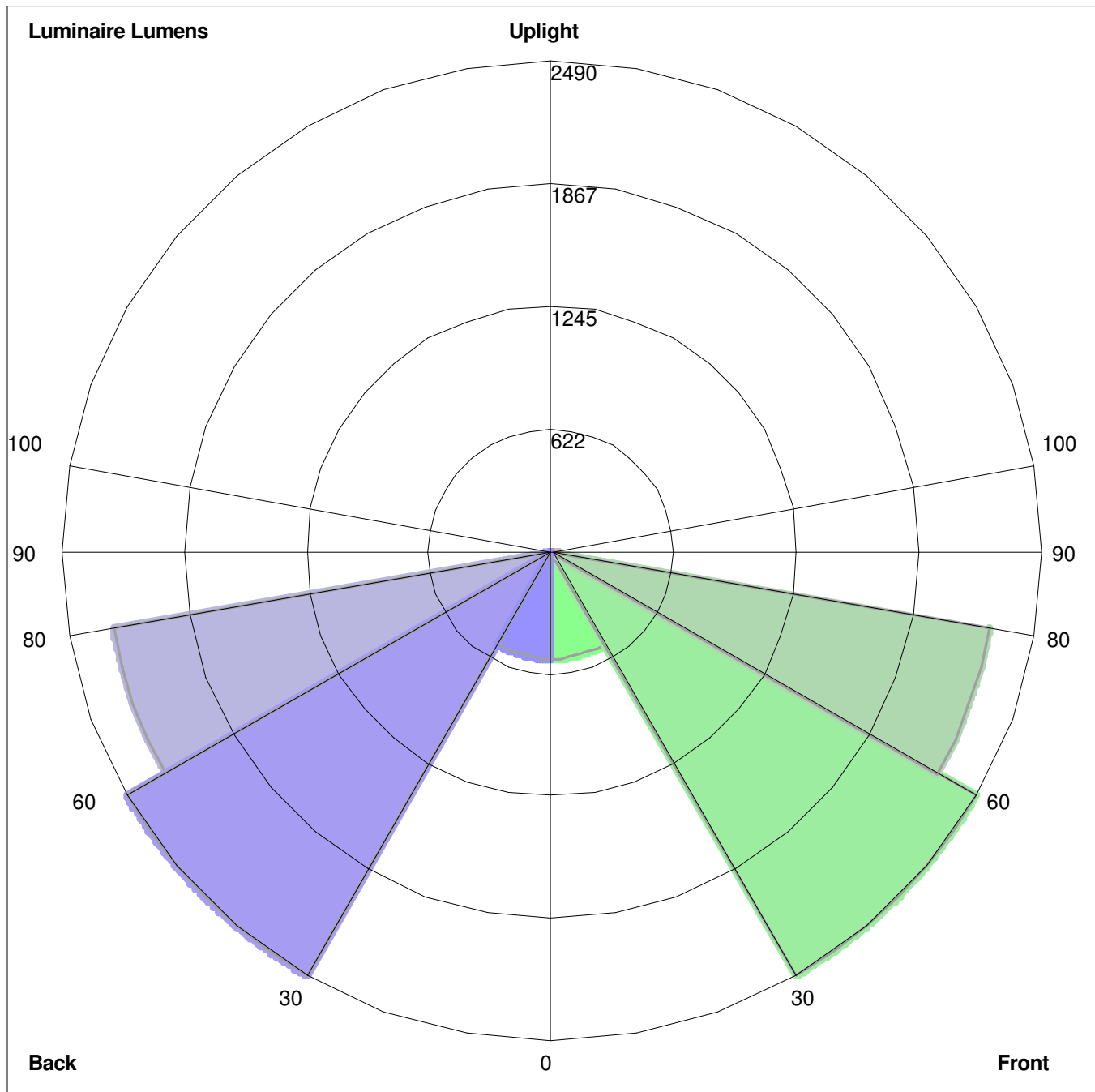


Maximum Candela = 5034.466 Located At Horizontal Angle = 45, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=547.4, Medium=2489.9, High=2259.2, Very High=36.1
Back: Low=547.4, Medium=2489.9, High=2259.2, Very High=36.1
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G2