



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L65-740-T5-XX-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] ATAL009389-R2
[TESTLAB] ATAL-LABS
[ISSUE DATE] 2023-11-06
[MANUFAC] WILLIAMS OUTDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] VG1-L65-740-T5-xx-xxx-DIM-UNV_
[LUMINAIRE] 13.5 x 16 INCH DIE CAST LED LUMINAIRE
[MORE] WITH TYPE V DISTRIBUTION AND CLEAR GLASS
[LAMPCAT] X12-LUXEON M LEDS
[LAMP] (12) LUXEON M LEDS
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Outdoor, Architectural, Area, Canopy, Garage, Industrial, Parking, Site, Direct, Wet Location
[SEARCH_MOUNTING] Pendant, Surface

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7131
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	69
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2150.707
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	2150.707
Maximum Candela Angle (<90 Degrees Vertical)	50H 67.5V
Maximum Candela At 90 Degrees Vertical	0 (0.0% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	744.959 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L65-740-T5-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	403.2	N.A.	5.7
FM - Front-Medium (30-60)	1626.5	N.A.	22.8
FH - Front-High (60-80)	1525.0	N.A.	21.4
FVH - Front-Very High (80-90)	42.0	N.A.	0.6
BL - Back-Low (0-30)	389.8	N.A.	5.5
BM - Back-Medium (30-60)	1524.7	N.A.	21.4
BH - Back-High (60-80)	1556.9	N.A.	21.8
BVH - Back-Very High (80-90)	63.2	N.A.	0.9
UL - Uplight-Low (90-100)	0.0	N.A.	0.0
UH - Uplight-High (100-180)	0.0	N.A.	0.0
Total	7131.3	N.A.	100.0
BUG Rating	B3-U0-G1		

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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	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810
2.5	909.370	910.156	911.730	912.516	914.090	913.303	912.516	912.516	912.516	914.090
5.0	895.997	896.783	898.357	899.930	902.290	901.503	900.717	900.717	899.930	901.503
7.5	889.703	891.277	892.850	894.423	895.210	895.210	894.423	894.423	893.637	894.423
10.0	891.277	892.063	895.210	895.997	894.423	894.423	894.423	892.850	891.277	890.490
12.5	897.570	898.357	902.290	903.863	903.863	903.863	902.290	899.143	895.210	892.850
15.0	903.863	905.436	909.370	910.156	913.303	917.236	917.236	914.876	910.156	906.223
17.5	915.663	916.450	919.596	918.810	922.743	929.036	934.543	934.543	929.823	928.249
20.0	944.769	942.409	943.196	940.049	939.263	943.982	951.849	955.782	953.422	955.782
22.5	982.528	975.449	973.875	967.582	964.435	966.795	973.875	977.808	984.102	990.395
25.0	1011.635	1009.275	1007.701	1000.621	995.115	993.542	995.901	1001.408	1017.928	1022.648
27.5	1050.180	1049.394	1047.821	1039.167	1031.301	1026.581	1024.221	1028.941	1042.314	1046.247
30.0	1098.953	1098.166	1095.020	1084.006	1072.207	1061.980	1058.047	1061.980	1065.127	1069.060
32.5	1160.312	1158.738	1149.299	1136.712	1120.979	1105.246	1096.593	1091.086	1091.086	1091.086
35.0	1231.897	1230.324	1219.311	1201.218	1181.551	1158.738	1142.219	1134.352	1126.486	1120.192
37.5	1299.549	1297.976	1286.176	1269.656	1246.057	1217.737	1195.711	1182.338	1167.392	1158.738
40.0	1364.055	1361.695	1349.895	1332.589	1309.776	1279.096	1253.923	1236.617	1218.524	1209.084
42.5	1426.200	1421.480	1408.107	1389.227	1369.561	1339.668	1315.282	1296.403	1279.883	1268.870
45.0	1473.399	1470.253	1459.240	1443.506	1421.480	1391.587	1371.921	1356.188	1344.388	1334.948
47.5	1520.598	1515.092	1509.585	1495.426	1474.186	1441.147	1422.267	1412.040	1407.320	1404.961
50.0	1560.718	1558.358	1559.144	1551.278	1531.611	1499.359	1482.839	1475.759	1474.186	1474.973
52.5	1571.731	1574.877	1589.037	1599.264	1592.184	1567.011	1552.851	1549.704	1545.771	1545.771
55.0	1567.011	1574.091	1601.624	1635.450	1648.823	1637.023	1629.156	1630.730	1626.010	1622.863
57.5	1591.397	1594.544	1618.930	1662.196	1691.302	1699.955	1706.248	1721.981	1720.408	1712.541
60.0	1632.303	1634.663	1660.622	1714.115	1736.141	1754.234	1779.407	1817.166	1823.459	1814.020
62.5	1637.023	1644.889	1675.569	1753.447	1795.140	1835.259	1864.365	1924.151	1952.470	1954.044
65.0	1673.996	1680.289	1708.608	1782.553	1820.313	1852.566	1895.045	2009.109	2084.628	2095.641
67.5	1633.876	1655.116	1700.742	1791.207	1836.046	1870.659	1907.631	2042.935	2127.107	2148.347
70.0	1534.758	1551.278	1627.583	1736.141	1780.194	1797.500	1847.846	2002.029	2088.561	2085.415
72.5	1375.068	1416.760	1522.958	1688.155	1769.967	1735.354	1729.061	1723.555	1795.927	1757.381
75.0	852.731	930.609	1029.728	1238.977	1287.749	1346.748	1473.399	1467.893	1233.470	1129.632
77.5	267.462	283.981	313.088	394.113	490.871	718.213	888.130	969.155	951.849	966.795
80.0	105.411	110.918	124.291	160.477	187.223	259.595	390.966	496.377	548.296	556.950
82.5	35.399	35.399	40.119	55.066	66.079	97.545	143.957	184.077	213.183	231.276
85.0	11.800	11.013	12.586	15.733	18.093	27.533	39.333	48.772	55.066	58.212
87.5	1.573	1.573	1.573	1.573	1.573	1.573	2.360	3.933	4.720	4.720
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>	<u>95</u>
0.0	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810
2.5	916.450	921.170	920.383	916.450	913.303	913.303	915.663	915.663	916.450	914.876
5.0	904.650	907.010	906.223	903.077	899.930	899.930	901.503	901.503	900.717	899.930
7.5	896.783	896.783	894.423	893.637	889.703	890.490	891.277	890.490	888.130	888.130
10.0	892.063	890.490	887.343	886.557	884.984	887.343	887.343	888.130	885.770	884.984
12.5	894.423	892.063	890.490	891.277	890.490	892.063	889.703	888.130	885.770	884.197
15.0	905.436	905.436	902.290	900.717	898.357	894.423	888.130	885.770	884.197	882.624
17.5	924.316	922.743	918.023	912.516	905.436	899.930	894.423	892.850	890.490	890.490
20.0	950.276	943.982	937.689	928.249	921.170	917.236	913.303	912.516	909.370	909.370
22.5	982.528	966.795	958.142	950.276	943.982	942.409	942.409	940.836	938.476	936.903
25.0	1015.568	991.182	977.022	974.662	973.089	973.089	973.089	971.515	972.302	968.369
27.5	1039.954	1017.141	1002.981	1004.555	1007.701	1006.915	1008.488	1007.701	1008.488	1004.555

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CANDELA TABULATION - (Cont.)

30.0	1062.767	1047.821	1039.167	1038.381	1044.674	1047.821	1049.394	1050.967	1048.607	1046.247
32.5	1085.580	1071.420	1072.207	1075.353	1084.793	1089.513	1095.020	1096.593	1096.593	1093.446
35.0	1115.473	1106.033	1113.113	1120.979	1135.139	1144.579	1153.232	1159.525	1157.952	1155.592
37.5	1157.165	1152.445	1161.098	1176.045	1193.351	1208.298	1216.951	1221.671	1225.604	1221.671
40.0	1206.724	1204.364	1217.737	1234.257	1256.283	1272.803	1282.243	1289.323	1294.043	1290.109
42.5	1266.510	1264.936	1281.456	1297.189	1320.002	1332.589	1343.602	1350.682	1353.828	1350.682
45.0	1331.015	1328.655	1342.815	1353.828	1374.281	1385.294	1396.307	1402.601	1404.174	1401.027
47.5	1397.881	1390.801	1401.814	1407.320	1423.054	1438.000	1446.653	1449.800	1449.013	1446.653
50.0	1471.039	1461.599	1467.893	1467.106	1482.052	1496.999	1496.999	1492.279	1490.706	1490.706
52.5	1547.345	1542.625	1537.905	1537.118	1549.704	1554.424	1540.265	1524.532	1522.172	1524.532
55.0	1626.010	1628.370	1620.503	1614.997	1618.930	1611.063	1579.597	1548.918	1543.411	1545.771
57.5	1714.115	1719.621	1702.315	1692.875	1682.649	1650.396	1596.117	1552.064	1547.345	1544.985
60.0	1810.086	1815.593	1786.487	1762.887	1732.994	1691.302	1627.583	1589.037	1587.464	1580.384
62.5	1943.817	1942.244	1886.392	1845.486	1797.500	1740.861	1659.836	1612.637	1609.490	1601.624
65.0	2092.494	2053.162	1932.804	1865.152	1821.886	1763.674	1675.569	1634.663	1623.650	1618.143
67.5	2150.707	2098.001	1961.124	1880.885	1861.219	1804.580	1730.634	1682.649	1674.782	1670.062
70.0	2118.454	2070.468	1927.297	1817.166	1802.220	1744.794	1645.676	1541.051	1526.892	1519.025
72.5	1814.020	1767.607	1742.434	1742.434	1798.287	1774.687	1654.329	1482.839	1476.546	1478.119
75.0	1198.858	1423.054	1552.064	1470.253	1444.293	1359.335	1261.003	1095.806	1087.153	1093.446
77.5	959.715	990.395	974.662	814.185	680.454	499.524	432.659	365.007	359.500	361.073
80.0	560.096	530.203	471.205	306.008	232.849	187.223	167.557	148.677	149.464	147.891
82.5	224.982	208.463	180.930	126.651	97.545	73.945	63.719	56.639	57.426	56.639
85.0	60.572	60.572	53.492	36.186	27.533	19.666	17.306	15.733	16.520	17.306
87.5	3.933	5.507	3.933	3.933	3.147	3.147	2.360	2.360	2.360	2.360
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>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0.0	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810	918.810
2.5	914.876	914.090	913.303	913.303	914.090	914.090	914.876	916.450	917.236	917.236
5.0	899.143	899.143	899.143	899.143	899.143	899.930	900.717	903.077	904.650	903.863
7.5	887.343	888.130	888.917	888.917	887.343	887.343	888.917	890.490	892.063	892.063
10.0	884.197	884.197	884.197	881.837	877.904	877.117	880.264	881.837	882.624	881.837
12.5	885.770	887.343	888.130	885.770	879.477	876.330	878.690	879.477	880.264	880.264
15.0	884.984	887.343	891.277	890.490	887.343	884.197	886.557	885.770	886.557	887.343
17.5	889.703	890.490	893.637	895.210	894.423	896.783	899.930	899.930	899.143	900.717
20.0	906.223	906.223	905.436	905.436	906.223	911.730	914.876	920.383	917.236	915.663
22.5	932.969	929.823	925.103	923.529	925.103	930.609	936.116	945.556	940.836	933.756
25.0	962.075	957.356	949.489	947.916	945.556	949.489	961.289	973.875	966.009	953.422
27.5	996.688	989.608	980.168	977.808	969.942	972.302	987.248	995.901	986.462	973.089
30.0	1037.594	1028.154	1015.568	1010.061	998.261	1002.981	1008.488	1016.354	1004.555	998.261
32.5	1083.220	1069.847	1052.540	1041.527	1027.368	1025.794	1025.794	1027.368	1018.714	1011.635
35.0	1139.072	1122.552	1099.740	1081.647	1060.407	1051.754	1046.247	1044.674	1037.594	1033.661
37.5	1202.791	1182.338	1157.165	1132.779	1105.246	1091.086	1079.287	1073.780	1067.487	1071.420
40.0	1268.870	1246.057	1216.951	1190.205	1157.165	1138.285	1123.339	1115.473	1107.606	1113.113
42.5	1330.229	1307.416	1279.883	1250.777	1216.951	1193.351	1174.471	1165.818	1159.525	1164.245
45.0	1380.574	1359.335	1331.802	1306.629	1277.523	1251.563	1228.750	1219.311	1214.591	1220.097
47.5	1427.773	1410.467	1383.721	1360.121	1335.735	1310.562	1287.749	1279.883	1274.376	1280.670
50.0	1475.759	1467.106	1442.720	1419.907	1397.094	1374.281	1353.828	1348.322	1342.815	1343.602
52.5	1516.665	1518.238	1505.652	1486.772	1462.386	1444.293	1424.627	1420.694	1415.974	1413.614
55.0	1552.064	1570.157	1572.517	1562.291	1541.838	1522.958	1504.865	1493.066	1494.639	1489.132
57.5	1562.291	1606.343	1634.663	1639.383	1622.863	1611.063	1593.757	1575.664	1577.237	1574.091
60.0	1590.610	1640.169	1687.369	1710.968	1707.035	1706.248	1695.235	1670.062	1677.142	1669.276
62.5	1616.570	1679.502	1747.941	1789.633	1799.073	1818.739	1827.393	1805.366	1808.513	1791.207
65.0	1628.370	1687.369	1758.167	1808.513	1843.912	1942.244	1989.443	1972.923	1969.777	1930.444

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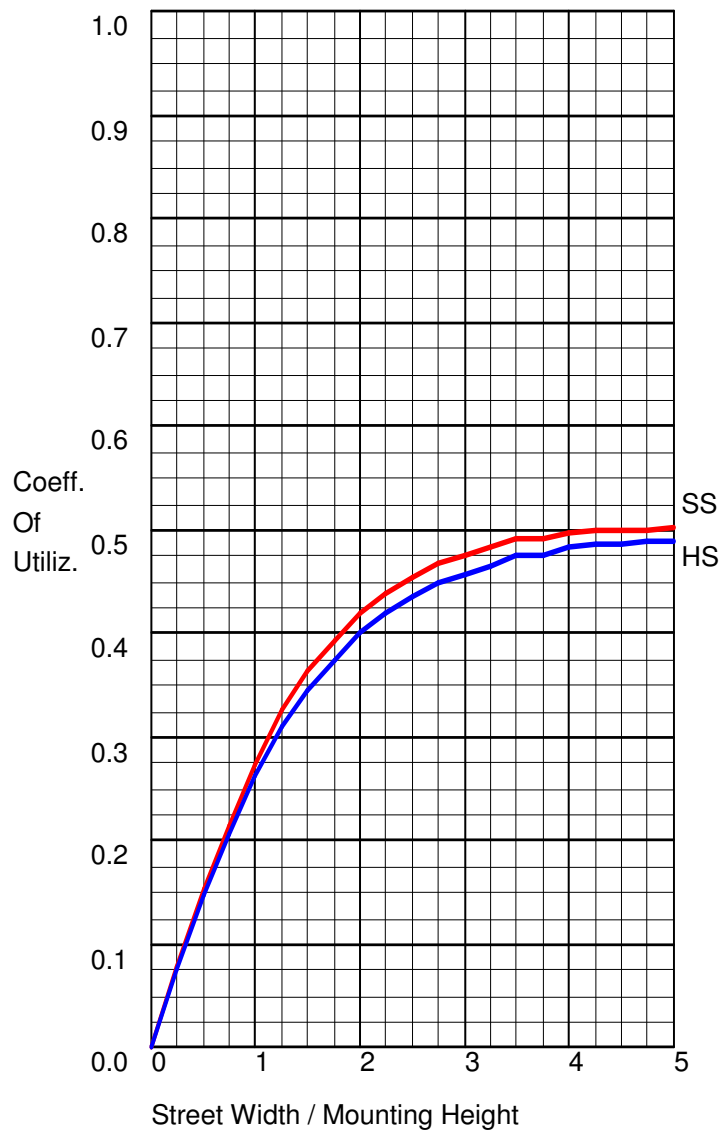
CANDELA TABULATION - (Cont.)

67.5	1687.369	1738.501	1795.927	1830.539	1858.859	1991.016	2074.401	2084.628	2074.401	2005.963
70.0	1566.224	1671.636	1745.581	1784.127	1856.499	2046.082	2131.827	2132.614	2137.334	2068.895
72.5	1579.597	1719.621	1736.928	1675.569	1718.835	1840.766	1957.977	1984.723	2015.402	1917.858
75.0	1254.710	1456.880	1533.971	1591.397	1655.903	1520.598	1380.574	1417.547	1424.627	1485.986
77.5	482.218	629.322	831.491	966.009	1094.233	1181.551	1061.980	974.662	1044.674	1191.778
80.0	180.143	212.396	258.809	376.806	556.163	682.027	701.694	744.959	722.933	736.306
82.5	70.012	84.958	113.278	148.677	203.743	276.115	331.181	342.980	324.887	313.088
85.0	19.666	24.386	34.613	47.199	63.719	88.892	116.425	123.504	122.718	112.491
87.5	3.147	3.147	5.507	7.080	12.586	12.586	15.733	14.946	14.946	14.946
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
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	918.810	918.810	918.810	918.810	918.810	918.810	918.810
2.5	916.450	915.663	916.450	914.090	915.663	918.810	919.596
5.0	903.077	900.717	901.503	899.930	900.717	903.077	902.290
7.5	890.490	888.917	888.130	886.557	886.557	888.130	887.343
10.0	881.050	879.477	879.477	879.477	878.690	879.477	881.050
12.5	880.264	880.264	880.264	879.477	878.690	878.690	879.477
15.0	888.130	887.343	884.984	881.837	878.690	877.904	877.904
17.5	899.930	894.423	887.343	881.050	879.477	879.477	881.050
20.0	913.303	903.077	892.850	888.130	891.277	891.277	893.637
22.5	927.463	918.023	907.796	906.223	911.730	914.090	915.663
25.0	940.836	934.543	928.249	929.823	936.116	940.049	943.982
27.5	957.356	956.569	954.209	956.569	963.649	966.009	969.942
30.0	984.888	981.742	983.315	988.822	997.475	999.048	1003.768
32.5	1004.555	1006.128	1013.208	1021.861	1032.087	1036.021	1043.887
35.0	1031.301	1038.381	1051.754	1065.127	1078.500	1085.580	1095.020
37.5	1070.633	1083.220	1100.526	1117.046	1135.139	1145.365	1154.805
40.0	1118.619	1134.352	1151.659	1176.831	1198.858	1211.444	1220.884
42.5	1174.471	1191.778	1214.591	1238.977	1264.150	1277.523	1286.963
45.0	1235.830	1251.563	1271.230	1294.829	1315.282	1329.442	1334.948
47.5	1294.043	1306.629	1326.295	1345.962	1364.055	1371.921	1375.854
50.0	1353.041	1360.908	1382.148	1397.881	1412.827	1418.334	1423.840
52.5	1414.400	1425.413	1446.653	1457.666	1461.599	1461.599	1466.319
55.0	1489.919	1499.359	1511.159	1508.799	1500.145	1490.706	1489.132
57.5	1566.224	1568.584	1571.731	1561.504	1528.465	1502.505	1496.999
60.0	1650.396	1648.823	1636.236	1607.130	1552.851	1520.598	1517.452
62.5	1753.447	1740.074	1705.462	1661.409	1585.104	1551.278	1543.411
65.0	1840.766	1788.847	1736.141	1677.929	1596.117	1575.664	1568.584
67.5	1871.445	1808.513	1784.913	1753.447	1682.649	1664.556	1657.476
70.0	1911.564	1809.300	1761.314	1704.675	1624.436	1549.704	1541.838
72.5	1781.767	1695.235	1694.448	1689.729	1597.690	1517.452	1504.079
75.0	1680.289	1643.316	1627.583	1512.732	1386.081	1264.150	1240.550
77.5	1202.791	1073.780	996.688	910.156	741.026	611.229	568.749
80.0	677.307	479.071	337.474	288.701	253.302	224.196	221.836
82.5	262.742	184.077	140.811	123.504	106.198	90.465	91.252
85.0	89.678	61.359	47.199	38.546	32.253	26.746	25.960
87.5	11.800	8.653	6.293	5.507	5.507	4.720	4.720
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

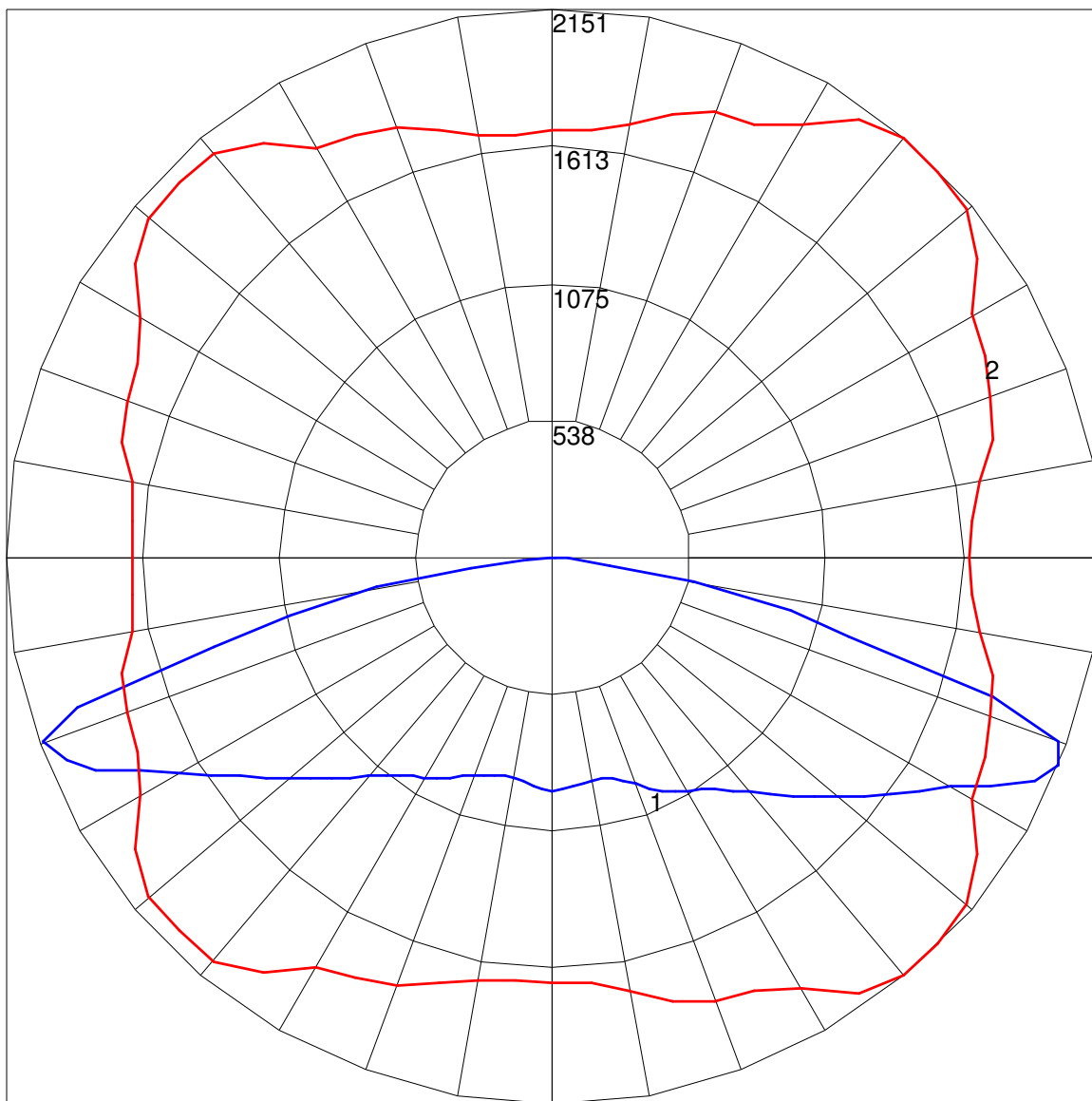
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

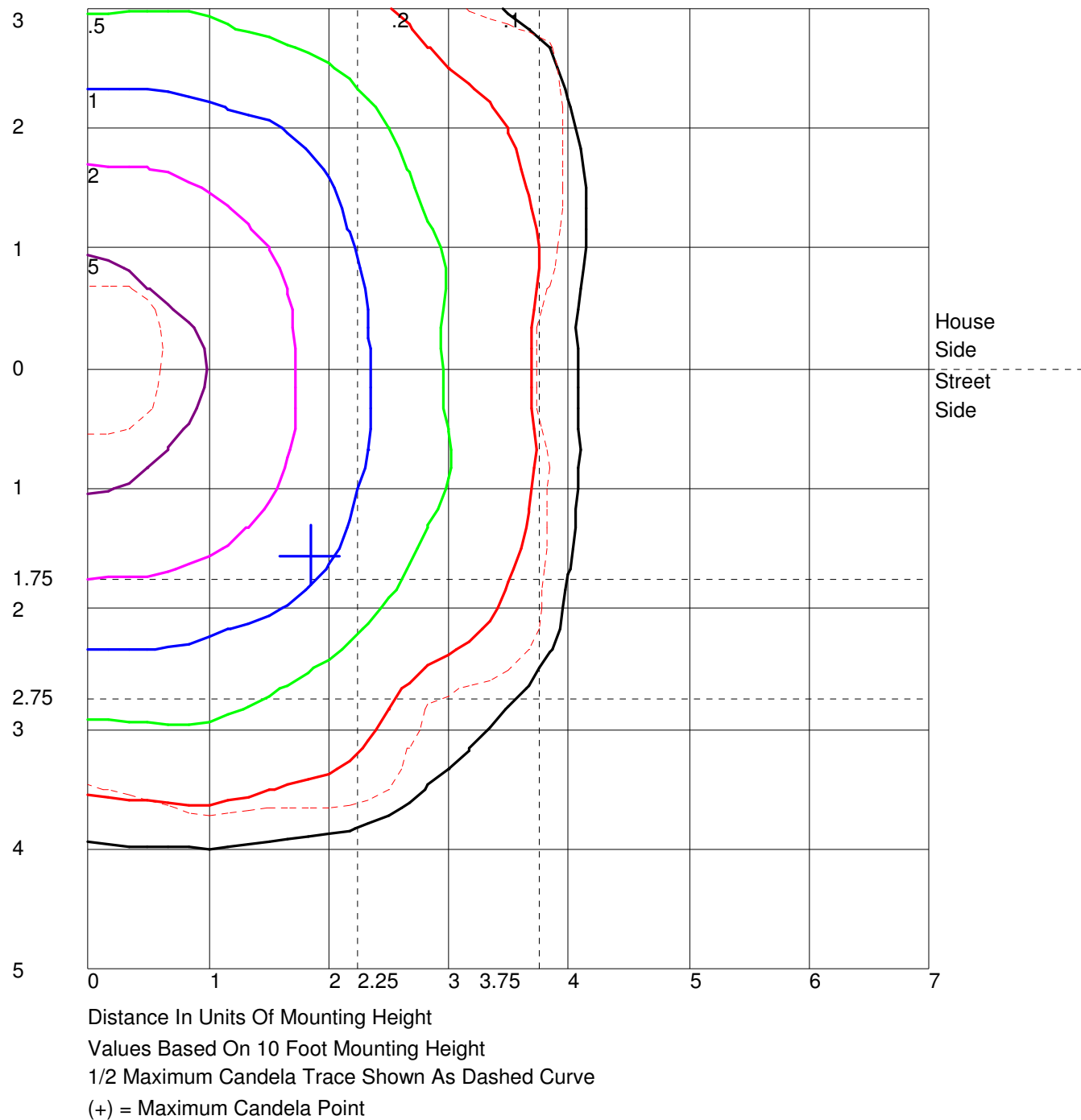
	Lumens	Percent Of Luminaire
Downward Street Side	3596.8	50.4
Downward House Side	3534.6	49.6
Downward Total	7131.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7131.4	100.0

POLAR GRAPH

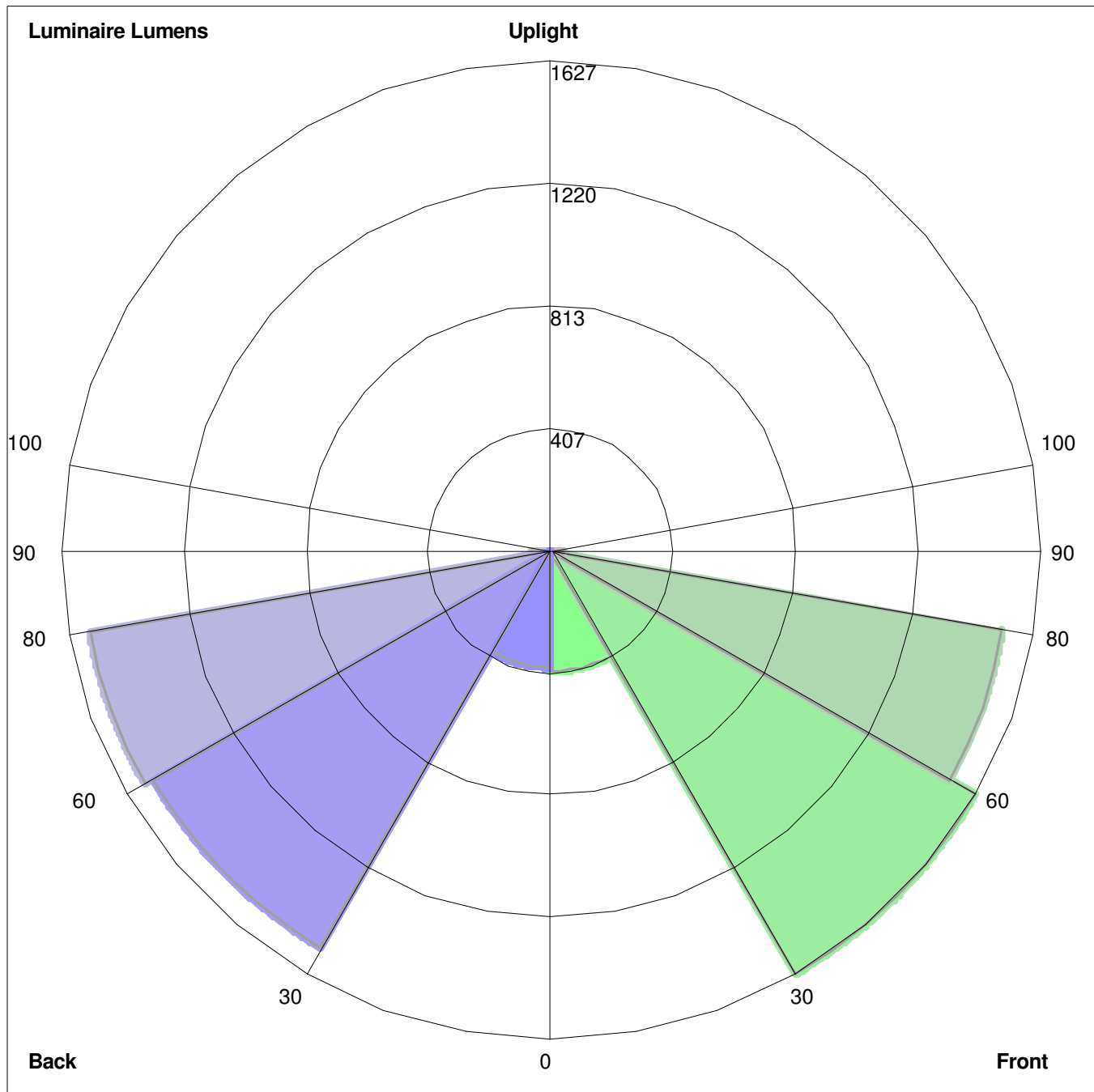


Maximum Candela = 2150.707 Located At Horizontal Angle = 50, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=403.2, Medium=1626.5, High= 1525.0, Very High=42.0
Back: Low=389.8, Medium=1524.7, High=1556.9, Very High=63.2
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1