



IES ROAD REPORT

PHOTOMETRIC FILENAME : VG1-L65-730-T5-XX-XXX-DIM-UNV_.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] ATAL009389-R2
 [TESTLAB] ATAL-LABS
 [ISSUEDATE] 2023-11-06
 [MANUFAC] WILLIAMS OUTDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] VG1-L65-730-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	6773
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	69
Ballast Factor	1.00
Upward Waste Light Ratio	0.00
Maximum Candela	2042.734
Maximum Candela Angle	50H 67.5V
Maximum Candela (<90 Degrees Vertical)	2042.734
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	707.56 (10.4% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

IES ROAD REPORT**PHOTOMETRIC FILENAME : VG1-L65-730-T5-XX-XXX-DIM-UNV_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	382.9	N.A.	5.7
FM - Front-Medium (30-60)	1544.9	N.A.	22.8
FH - Front-High (60-80)	1448.5	N.A.	21.4
FVH - Front-Very High (80-90)	39.9	N.A.	0.6
BL - Back-Low (0-30)	370.2	N.A.	5.5
BM - Back-Medium (30-60)	1448.2	N.A.	21.4
BH - Back-High (60-80)	1478.7	N.A.	21.8
BVH - Back-Very High (80-90)	60.0	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	6773.3	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	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682
2.5	863.716	864.463	865.958	866.705	868.199	867.452	866.705	866.705	866.705	868.199
5.0	851.015	851.762	853.256	854.750	856.992	856.245	855.498	855.498	854.750	856.245
7.5	845.037	846.532	848.026	849.520	850.267	850.267	849.520	849.520	848.773	849.520
10.0	846.532	847.279	850.267	851.015	849.520	849.520	849.520	848.026	846.532	845.784
12.5	852.509	853.256	856.992	858.486	858.486	858.486	856.992	854.003	850.267	848.026
15.0	858.486	859.980	863.716	864.463	867.452	871.188	871.188	868.946	864.463	860.728
17.5	869.694	870.441	873.429	872.682	876.418	882.395	887.625	887.625	883.142	881.648
20.0	897.338	895.097	895.844	892.856	892.108	896.591	904.063	907.799	905.557	907.799
22.5	933.202	926.478	924.983	919.006	916.017	918.259	924.983	928.719	934.696	940.674
25.0	960.847	958.606	957.111	950.387	945.157	943.662	945.904	951.134	966.824	971.307
27.5	997.458	996.711	995.216	986.998	979.526	975.043	972.802	977.285	989.986	993.722
30.0	1043.782	1043.035	1040.046	1029.586	1018.378	1008.665	1004.929	1008.665	1011.654	1015.390
32.5	1102.060	1100.566	1091.600	1079.645	1064.702	1049.759	1041.540	1036.310	1036.310	1036.310
35.0	1170.052	1168.557	1158.097	1140.912	1122.233	1100.566	1084.875	1077.404	1069.932	1063.955
37.5	1234.307	1232.813	1221.606	1205.915	1183.501	1156.603	1135.682	1122.981	1108.785	1100.566
40.0	1295.574	1293.333	1282.126	1265.688	1244.020	1214.881	1190.972	1174.535	1157.350	1148.384
42.5	1354.600	1350.117	1337.415	1319.484	1300.805	1272.412	1249.251	1231.319	1215.628	1205.168
45.0	1399.430	1396.441	1385.981	1371.038	1350.117	1321.725	1303.046	1288.103	1276.895	1267.930
47.5	1444.259	1439.029	1433.799	1420.350	1400.177	1368.796	1350.864	1341.151	1336.668	1334.427
50.0	1482.364	1480.123	1480.870	1473.398	1454.719	1424.086	1408.396	1401.671	1400.177	1400.924
52.5	1492.825	1495.813	1509.262	1518.975	1512.251	1488.342	1474.893	1471.904	1468.168	1468.168
55.0	1488.342	1495.066	1521.217	1553.344	1566.046	1554.839	1547.367	1548.861	1544.379	1541.390
57.5	1511.504	1514.492	1537.654	1578.748	1606.393	1614.612	1620.589	1635.532	1634.038	1626.566
60.0	1550.356	1552.597	1577.254	1628.060	1648.981	1666.166	1690.075	1725.938	1731.916	1722.950
62.5	1554.839	1562.310	1591.450	1665.418	1705.018	1743.123	1770.768	1827.552	1854.450	1855.944
65.0	1589.955	1595.933	1622.830	1693.063	1728.927	1759.560	1799.907	1908.245	1979.972	1990.433
67.5	1551.850	1572.023	1615.359	1701.282	1743.870	1776.745	1811.862	1940.373	2020.319	2040.492
70.0	1457.708	1473.398	1545.873	1648.981	1690.822	1707.259	1755.077	1901.521	1983.708	1980.720
72.5	1306.035	1345.634	1446.501	1603.404	1681.109	1648.234	1642.256	1637.026	1705.765	1669.154
75.0	809.921	883.890	978.032	1176.776	1223.100	1279.137	1399.430	1394.199	1171.546	1072.921
77.5	254.034	269.725	297.369	374.327	466.227	682.157	843.543	920.500	904.063	918.259
80.0	100.119	105.349	118.051	152.421	177.824	246.563	371.338	471.458	520.770	528.989
82.5	33.622	33.622	38.105	52.301	62.761	92.648	136.730	174.835	202.480	219.665
85.0	11.207	10.460	11.955	14.943	17.185	26.151	37.358	46.324	52.301	55.290
87.5	1.494	1.494	1.494	1.494	1.494	1.494	2.241	3.736	4.483	4.483
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	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682
2.5	870.441	874.924	874.177	870.441	867.452	867.452	869.694	869.694	870.441	868.946
5.0	859.233	861.475	860.728	857.739	854.750	854.750	856.245	856.245	855.498	854.750
7.5	851.762	851.762	849.520	848.773	845.037	845.784	846.532	845.784	843.543	843.543
10.0	847.279	845.784	842.796	842.049	840.554	842.796	842.796	843.543	841.302	840.554
12.5	849.520	847.279	845.784	846.532	845.784	847.279	845.037	843.543	841.302	839.807
15.0	859.980	859.980	856.992	855.498	853.256	849.520	843.543	841.302	839.807	838.313
17.5	877.912	876.418	871.935	866.705	859.980	854.750	849.520	848.026	845.784	845.784
20.0	902.569	896.591	890.614	881.648	874.924	871.188	867.452	866.705	863.716	863.716
22.5	933.202	918.259	910.040	902.569	896.591	895.097	895.097	893.603	891.361	889.867
25.0	964.583	941.421	927.972	925.731	924.236	924.236	924.236	922.742	923.489	919.753
27.5	987.745	966.077	952.628	954.123	957.111	956.364	957.858	957.111	957.858	954.123

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CANDELA TABULATION - (Cont.)

30.0	1009.412	995.216	986.998	986.250	992.228	995.216	996.711	998.205	995.964	993.722
32.5	1031.080	1017.631	1018.378	1021.367	1030.333	1034.816	1040.046	1041.540	1041.540	1038.552
35.0	1059.472	1050.506	1057.231	1064.702	1078.151	1087.117	1095.336	1101.313	1099.819	1097.577
37.5	1099.072	1094.589	1102.807	1117.003	1133.441	1147.637	1155.856	1160.339	1164.074	1160.339
40.0	1146.143	1143.901	1156.603	1172.293	1193.214	1208.904	1217.870	1224.594	1229.077	1225.341
42.5	1202.927	1201.432	1217.123	1232.066	1253.734	1265.688	1276.148	1282.873	1285.861	1282.873
45.0	1264.194	1261.952	1275.401	1285.861	1305.288	1315.748	1326.208	1332.185	1333.680	1330.691
47.5	1327.702	1320.978	1331.438	1336.668	1351.611	1365.807	1374.026	1377.015	1376.268	1374.026
50.0	1397.188	1388.222	1394.199	1393.452	1407.648	1421.844	1421.844	1417.361	1415.867	1415.867
52.5	1469.663	1465.180	1460.697	1459.950	1471.904	1476.387	1462.938	1447.995	1445.753	1447.995
55.0	1544.379	1546.620	1539.148	1533.918	1537.654	1530.182	1500.296	1471.157	1465.927	1468.168
57.5	1628.060	1633.290	1616.853	1607.887	1598.174	1567.540	1515.986	1474.146	1469.663	1467.421
60.0	1719.214	1724.444	1696.799	1674.384	1645.992	1606.393	1545.873	1509.262	1507.768	1501.043
62.5	1846.231	1844.737	1791.688	1752.836	1707.259	1653.464	1576.506	1531.677	1528.688	1521.217
65.0	1987.444	1950.086	1835.771	1771.515	1730.421	1675.131	1591.450	1552.597	1542.137	1536.907
67.5	2042.734	1992.674	1862.668	1786.458	1767.779	1713.984	1643.751	1598.174	1590.702	1586.219
70.0	2012.100	1966.524	1830.541	1725.938	1711.742	1657.200	1563.058	1463.685	1450.236	1442.765
72.5	1722.950	1678.867	1654.958	1654.958	1708.006	1685.592	1571.276	1408.396	1402.418	1403.913
75.0	1138.671	1351.611	1474.146	1396.441	1371.785	1291.091	1197.697	1040.793	1032.574	1038.552
77.5	911.534	940.674	925.731	773.310	646.293	474.446	410.938	346.682	341.452	342.946
80.0	531.978	503.585	447.548	290.645	221.159	177.824	159.145	141.213	141.960	140.466
82.5	213.688	197.997	171.847	120.293	92.648	70.233	60.520	53.795	54.543	53.795
85.0	57.531	57.531	50.807	34.369	26.151	18.679	16.438	14.943	15.690	16.438
87.5	3.736	5.230	3.736	3.736	2.989	2.989	2.241	2.241	2.241	2.241
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	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682	872.682
2.5	868.946	868.199	867.452	867.452	868.199	868.199	868.946	870.441	871.188	871.188
5.0	854.003	854.003	854.003	854.003	854.003	854.750	855.498	857.739	859.233	858.486
7.5	842.796	843.543	844.290	844.290	842.796	842.796	844.290	845.784	847.279	847.279
10.0	839.807	839.807	839.807	837.566	833.830	833.083	836.071	837.566	838.313	837.566
12.5	841.302	842.796	843.543	841.302	835.324	832.336	834.577	835.324	836.071	836.071
15.0	840.554	842.796	846.532	845.784	842.796	839.807	842.049	841.302	842.049	842.796
17.5	845.037	845.784	848.773	850.267	849.520	851.762	854.750	854.750	854.003	855.498
20.0	860.728	860.728	859.980	859.980	860.728	865.958	868.946	874.177	871.188	869.694
22.5	886.131	883.142	878.659	877.165	878.659	883.890	889.120	898.086	893.603	886.878
25.0	913.776	909.293	901.821	900.327	898.086	901.821	913.029	924.983	917.512	905.557
27.5	946.651	939.927	930.961	928.719	921.248	923.489	937.685	945.904	936.938	924.236
30.0	985.503	976.537	964.583	959.353	948.145	952.628	957.858	965.330	954.123	948.145
32.5	1028.839	1016.137	999.699	989.239	975.790	974.296	974.296	975.790	967.571	960.847
35.0	1081.887	1066.196	1044.529	1027.344	1007.171	998.952	993.722	992.228	985.503	981.767
37.5	1142.407	1122.981	1099.072	1075.910	1049.759	1036.310	1025.103	1019.873	1013.895	1017.631
40.0	1205.168	1183.501	1155.856	1130.452	1099.072	1081.140	1066.944	1059.472	1052.000	1057.231
42.5	1263.447	1241.779	1215.628	1187.983	1155.856	1133.441	1115.509	1107.290	1101.313	1105.796
45.0	1311.265	1291.091	1264.941	1241.032	1213.387	1188.731	1167.063	1158.097	1153.614	1158.844
47.5	1356.094	1339.657	1314.253	1291.839	1268.677	1244.768	1223.100	1215.628	1210.398	1216.376
50.0	1401.671	1393.452	1370.290	1348.623	1326.955	1305.288	1285.861	1280.631	1275.401	1276.148
52.5	1440.523	1442.018	1430.063	1412.131	1388.969	1371.785	1353.106	1349.370	1344.887	1342.645
55.0	1474.146	1491.330	1493.572	1483.859	1464.432	1446.501	1429.316	1418.109	1419.603	1414.373
57.5	1483.859	1525.700	1552.597	1557.080	1541.390	1530.182	1513.745	1496.560	1498.055	1495.066
60.0	1510.756	1557.827	1602.657	1625.072	1621.336	1620.589	1610.129	1586.219	1592.944	1585.472
62.5	1535.413	1595.185	1660.188	1699.788	1708.754	1727.433	1735.651	1714.731	1717.720	1701.282
65.0	1546.620	1602.657	1669.901	1717.720	1751.342	1844.737	1889.566	1873.876	1870.887	1833.529

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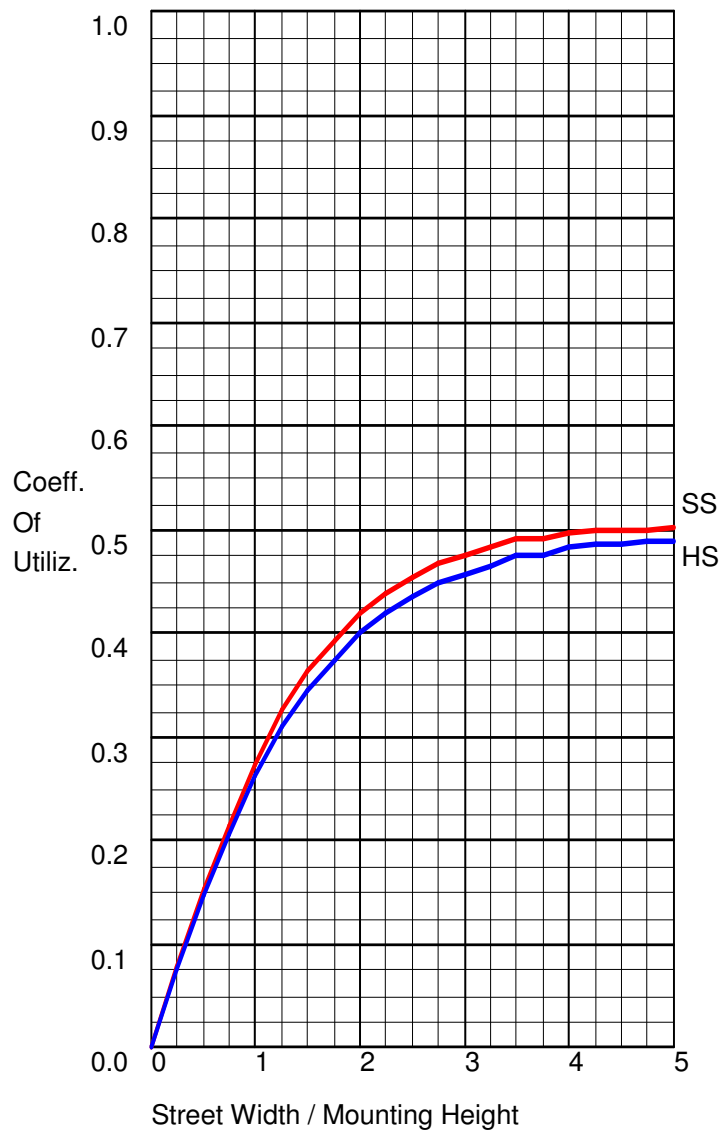
CANDELA TABULATION - (Cont.)

67.5	1602.657	1651.222	1705.765	1738.640	1765.538	1891.060	1970.259	1979.972	1970.259	1905.257
70.0	1487.594	1587.714	1657.947	1694.558	1763.296	1943.362	2024.802	2025.549	2030.032	1965.029
72.5	1500.296	1633.290	1649.728	1591.450	1632.543	1748.353	1859.680	1885.083	1914.222	1821.575
75.0	1191.719	1383.739	1456.961	1511.504	1572.771	1444.259	1311.265	1346.381	1353.106	1411.384
77.5	458.009	597.728	789.748	917.512	1039.299	1122.233	1008.665	925.731	992.228	1131.947
80.0	171.100	201.733	245.815	357.889	528.242	647.787	666.466	707.560	686.640	699.341
82.5	66.497	80.693	107.591	141.213	193.514	262.253	314.554	325.762	308.577	297.369
85.0	18.679	23.162	32.875	44.830	60.520	84.429	110.580	117.304	116.557	106.844
87.5	2.989	2.989	5.230	6.724	11.955	11.955	14.943	14.196	14.196	14.196
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	872.682	872.682	872.682	872.682	872.682	872.682	872.682
2.5	870.441	869.694	870.441	868.199	869.694	872.682	873.429
5.0	857.739	855.498	856.245	854.750	855.498	857.739	856.992
7.5	845.784	844.290	843.543	842.049	842.049	843.543	842.796
10.0	836.819	835.324	835.324	835.324	834.577	835.324	836.819
12.5	836.071	836.071	836.071	835.324	834.577	834.577	835.324
15.0	843.543	842.796	840.554	837.566	834.577	833.830	833.830
17.5	854.750	849.520	842.796	836.819	835.324	835.324	836.819
20.0	867.452	857.739	848.026	843.543	846.532	846.532	848.773
22.5	880.901	871.935	862.222	860.728	865.958	868.199	869.694
25.0	893.603	887.625	881.648	883.142	889.120	892.856	896.591
27.5	909.293	908.546	906.304	908.546	915.270	917.512	921.248
30.0	935.444	932.455	933.949	939.179	947.398	948.892	953.375
32.5	954.123	955.617	962.341	970.560	980.273	984.009	991.481
35.0	979.526	986.250	998.952	1011.654	1024.356	1031.080	1040.046
37.5	1016.884	1028.839	1045.276	1060.966	1078.151	1087.864	1096.830
40.0	1062.461	1077.404	1093.841	1117.750	1138.671	1150.626	1159.591
42.5	1115.509	1131.947	1153.614	1176.776	1200.685	1213.387	1222.353
45.0	1173.787	1188.731	1207.410	1229.824	1249.251	1262.699	1267.930
47.5	1229.077	1241.032	1259.711	1278.390	1295.574	1303.046	1306.782
50.0	1285.114	1292.586	1312.759	1327.702	1341.898	1347.128	1352.359
52.5	1343.393	1353.853	1374.026	1384.486	1388.222	1388.222	1392.705
55.0	1415.120	1424.086	1435.293	1433.052	1424.833	1415.867	1414.373
57.5	1487.594	1489.836	1492.825	1483.111	1451.731	1427.074	1421.844
60.0	1567.540	1566.046	1554.092	1526.447	1474.893	1444.259	1441.271
62.5	1665.418	1652.717	1619.842	1578.001	1505.526	1473.398	1465.927
65.0	1748.353	1699.041	1648.981	1593.691	1515.986	1496.560	1489.836
67.5	1777.492	1717.720	1695.305	1665.418	1598.174	1580.989	1574.265
70.0	1815.597	1718.467	1672.890	1619.094	1542.884	1471.904	1464.432
72.5	1692.316	1610.129	1609.381	1604.898	1517.481	1441.271	1428.569
75.0	1595.933	1560.816	1545.873	1436.788	1316.495	1200.685	1178.270
77.5	1142.407	1019.873	946.651	864.463	703.824	580.543	540.196
80.0	643.304	455.020	320.531	274.208	240.585	212.940	210.699
82.5	249.551	174.835	133.742	117.304	100.867	85.923	86.670
85.0	85.176	58.278	44.830	36.611	30.634	25.403	24.656
87.5	11.207	8.219	5.977	5.230	5.230	4.483	4.483
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

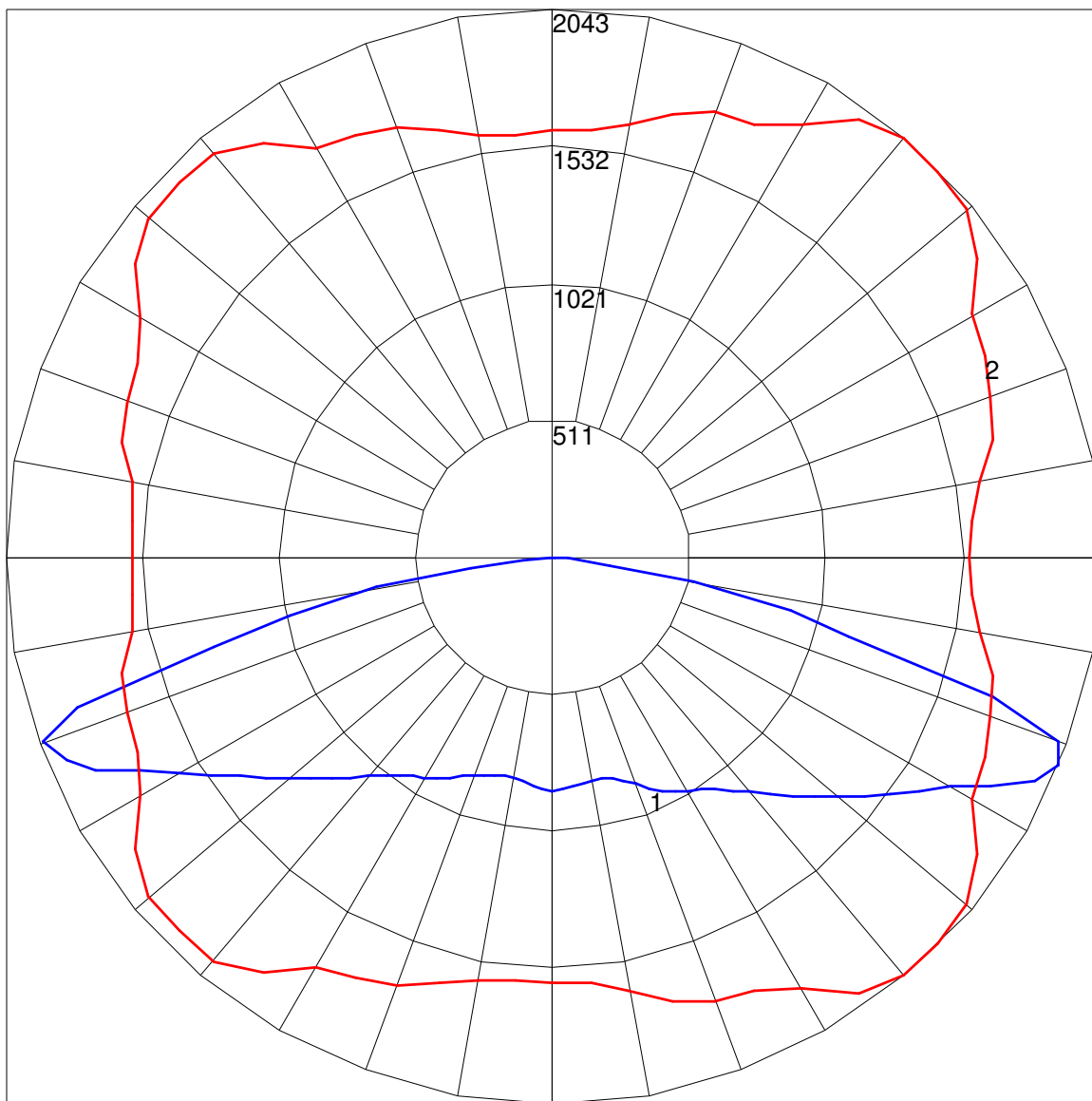
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

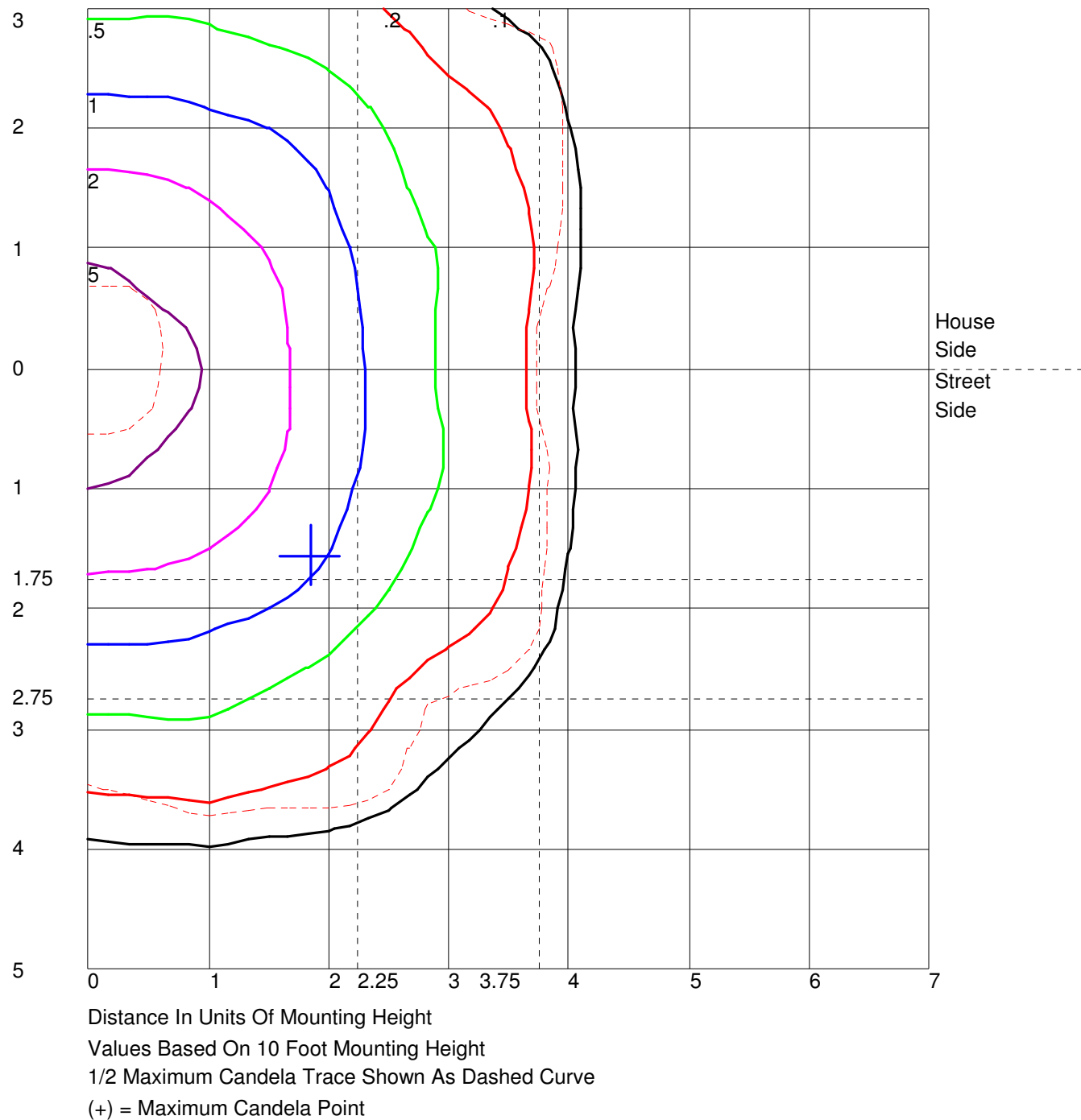
	Lumens	Percent Of Luminaire
Downward Street Side	3416.2	50.4
Downward House Side	3357.1	49.6
Downward Total	6773.3	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	6773.3	100.0

POLAR GRAPH

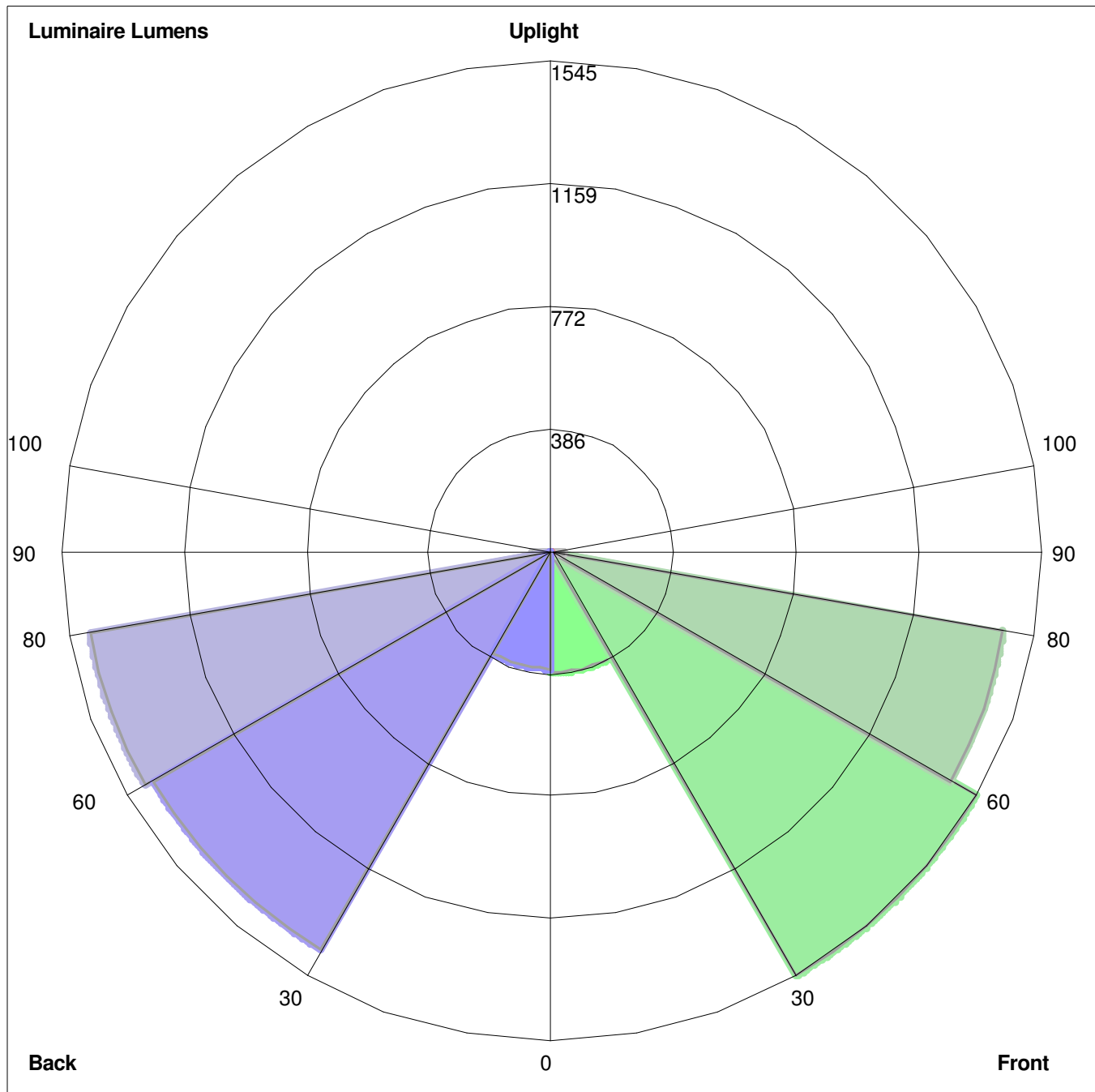


Maximum Candela = 2042.734 Located At Horizontal Angle = 50, Vertical Angle = 67.5
1 - Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (67.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
Front: Low=382.9, Medium=1544.9, High=1448.5, Very High=39.9
Back: Low=370.2, Medium=1448.2, High=1478.7, Very High=60.0
Uplight: Low=0.0, High=0.0

BUG Rating : B3-U0-G1