



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] ST-I2100WUXYZ-4000K

[TESTLAB]

[TESTDATE] 2021-11-25

[ISSUEDATE] 2021-11-25 11:20:56

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BEGHELLI

[LUMCAT] HZCAS6004HTVLOWT50120-277V

Note: Candela values converted from Type-B to Type-C

### CHARACTERISTICS

Lumens Per Lamp	5970.6 (1 lamp)
Total Lamp Lumens	5970.6
Luminaire Lumens	5945
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	39.8213
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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**CANDELA TABULATION**

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2130.21	2130.11	2130.06	2130.05	2130.10	2130.20	2130.34	2130.53	2130.77	2131.01
<b>5.0</b>	2104.43	2104.26	2104.18	2104.20	2104.32	2104.51	2104.74	2105.06	2105.48	2105.87
<b>7.5</b>	2078.65	2078.43	2078.36	2078.41	2078.55	2078.80	2079.12	2079.58	2080.06	2080.68
<b>10.0</b>	2052.86	2052.63	2052.59	2052.66	2052.88	2053.17	2053.46	2053.92	2054.47	2055.19
<b>12.5</b>	2027.08	2026.86	2026.86	2027.00	2027.23	2027.38	2027.68	2028.09	2028.70	2029.51
<b>15.0</b>	2001.30	2001.12	2001.18	2001.40	2001.44	2001.56	2001.74	2002.09	2002.67	2003.44
<b>17.5</b>	1949.88	1949.77	1950.24	1951.08	1952.08	1953.43	1955.28	1957.69	1960.48	1964.55
<b>20.0</b>	1898.45	1898.26	1898.71	1899.31	1900.21	1901.61	1903.55	1906.11	1909.79	1913.38
<b>22.5</b>	1847.03	1846.70	1847.08	1847.48	1848.31	1849.63	1851.92	1854.86	1857.96	1861.16
<b>25.0</b>	1795.60	1795.18	1795.45	1795.55	1796.28	1797.70	1800.20	1802.78	1805.36	1807.97
<b>27.5</b>	1744.18	1743.62	1743.61	1743.57	1744.14	1745.96	1748.09	1750.06	1752.11	1753.85
<b>30.0</b>	1692.75	1692.04	1691.74	1691.57	1691.90	1694.01	1695.41	1696.82	1697.90	1699.32
<b>32.5</b>	1609.45	1609.16	1609.89	1611.38	1614.14	1618.29	1622.63	1627.27	1632.34	1638.35
<b>35.0</b>	1526.15	1526.01	1526.96	1528.51	1531.48	1535.03	1538.88	1542.62	1548.01	1553.65
<b>37.5</b>	1442.85	1442.88	1444.10	1445.70	1448.55	1451.45	1454.98	1458.69	1463.40	1468.56
<b>40.0</b>	1359.55	1359.78	1361.22	1362.94	1365.22	1367.75	1370.58	1374.37	1378.33	1383.05
<b>42.5</b>	1276.25	1276.71	1278.37	1280.18	1281.82	1283.84	1286.17	1289.70	1293.05	1297.01
<b>45.0</b>	1192.95	1193.66	1195.55	1197.18	1198.31	1199.88	1201.99	1204.80	1207.60	1210.84
<b>47.5</b>	1044.44	1045.69	1049.62	1054.81	1061.02	1069.10	1079.44	1090.80	1103.96	1118.12
<b>50.0</b>	895.93	896.97	900.83	906.05	912.41	920.61	931.17	942.66	956.14	970.24
<b>52.5</b>	747.42	748.23	752.01	757.26	763.68	772.27	783.06	794.64	808.58	822.91
<b>55.0</b>	598.91	599.48	603.23	608.66	615.42	624.12	634.93	646.80	661.25	676.16
<b>57.5</b>	450.40	450.71	454.41	460.00	467.00	476.05	486.86	499.21	514.29	529.89
<b>60.0</b>	301.90	301.93	305.60	311.38	318.63	328.00	338.80	351.87	367.78	384.19
<b>62.5</b>	253.62	252.90	253.68	254.72	255.46	256.47	257.04	258.33	260.45	261.55
<b>65.0</b>	205.33	204.81	205.58	206.63	207.52	208.70	209.50	211.35	213.48	215.03
<b>67.5</b>	157.05	156.72	157.48	158.53	159.61	161.01	162.14	164.42	166.63	168.79
<b>70.0</b>	108.77	108.63	109.38	110.51	111.76	113.40	114.96	117.54	120.02	122.77
<b>72.5</b>	60.49	60.54	61.29	62.47	63.94	65.82	67.91	70.75	73.62	76.92
<b>75.0</b>	12.20	12.45	13.20	14.46	16.17	18.36	20.94	24.02	27.37	31.19
<b>77.5</b>	6.10	6.12	6.18	6.30	6.45	6.65	6.87	7.15	7.43	7.79
<b>80.0</b>	0.00	0.02	0.09	0.20	0.36	0.57	0.81	1.10	1.42	1.79
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2131.37	2131.71	2132.09	2132.52	2132.99	2133.51	2134.07	2134.67	2135.31	2135.99
<b>5.0</b>	2106.54	2107.14	2107.83	2108.61	2109.48	2110.44	2111.46	2112.58	2113.77	2115.05
<b>7.5</b>	2081.41	2082.25	2083.24	2084.36	2085.64	2087.07	2088.63	2090.29	2091.98	2094.65
<b>10.0</b>	2056.10	2057.19	2058.45	2059.82	2061.33	2063.02	2064.85	2066.85	2068.99	2071.14
<b>12.5</b>	2030.50	2031.65	2033.06	2034.73	2036.49	2038.19	2040.13	2042.04	2044.19	2046.39
<b>15.0</b>	2004.60	2006.12	2007.39	2008.77	2010.10	2011.65	2012.96	2014.57	2016.23	2018.23
<b>17.5</b>	1968.68	1972.89	1977.42	1981.01	1981.28	1982.42	1983.44	1984.51	1986.03	1987.95
<b>20.0</b>	1917.16	1921.24	1925.22	1929.72	1934.68	1940.10	1946.42	1953.41	1953.91	1954.97
<b>22.5</b>	1864.48	1867.87	1871.83	1876.05	1881.18	1886.59	1892.34	1898.62	1905.68	1913.21
<b>25.0</b>	1810.60	1813.74	1817.30	1821.65	1826.10	1830.18	1836.52	1842.62	1849.34	1856.76
<b>27.5</b>	1756.12	1758.80	1762.08	1765.51	1769.41	1773.97	1779.05	1784.74	1791.07	1797.51
<b>30.0</b>	1700.97	1703.19	1705.54	1708.34	1711.74	1715.65	1719.98	1725.19	1730.71	1737.04

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**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

32.5	1645.31	1646.61	1648.15	1650.36	1652.53	1655.87	1659.29	1662.88	1667.55	1673.14
35.0	1560.31	1567.26	1575.50	1584.31	1592.82	1594.19	1595.99	1598.84	1602.23	1607.96
37.5	1473.68	1481.07	1488.43	1496.69	1505.62	1515.40	1526.65	1534.57	1537.40	1541.22
40.0	1388.28	1393.78	1400.12	1407.54	1415.67	1425.36	1437.05	1449.24	1462.99	1474.16
42.5	1301.23	1305.62	1311.12	1317.66	1325.74	1335.54	1347.80	1357.16	1370.84	1386.38
45.0	1213.38	1216.68	1221.61	1228.02	1235.21	1244.29	1253.32	1264.24	1276.89	1290.65
47.5	1124.96	1126.72	1132.26	1138.44	1145.41	1152.02	1160.08	1169.71	1180.32	1191.69
50.0	985.04	1002.72	1023.17	1045.46	1053.68	1058.92	1065.63	1073.09	1082.18	1094.72
52.5	838.65	857.35	878.64	900.80	923.03	946.65	969.50	975.05	983.23	1002.83
55.0	692.90	712.69	734.59	756.17	779.07	801.89	826.91	851.83	888.76	902.88
57.5	547.75	568.26	590.26	611.89	635.96	660.30	685.50	715.60	749.52	776.05
60.0	403.23	425.12	446.73	469.83	494.65	519.58	546.00	580.40	607.73	636.64
62.5	263.94	281.89	303.45	328.46	353.62	380.66	410.28	440.46	469.84	499.37
65.0	217.94	220.74	221.34	224.67	225.86	243.32	273.21	302.82	334.70	364.23
67.5	172.09	174.76	176.78	179.83	182.25	185.44	186.48	188.67	200.53	233.46
70.0	126.40	129.19	132.36	135.54	139.00	142.71	144.26	147.74	149.14	151.93
72.5	80.84	84.17	88.15	91.85	96.22	100.17	103.36	107.42	110.04	112.95
75.0	35.40	39.57	44.21	48.80	53.82	58.48	63.14	67.93	71.93	75.52
77.5	8.17	8.57	8.99	9.51	11.78	17.59	23.40	28.97	34.52	39.46
80.0	2.20	2.63	3.10	3.62	4.19	4.78	5.41	6.05	6.68	7.38
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.91	1.62
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal Angles**

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
2.5	2136.57	2137.43	2138.23	2139.03	2139.86	2140.73	2141.62	2142.55	2143.50	2144.48
5.0	2116.41	2117.78	2119.39	2121.00	2122.69	2124.44	2126.25	2128.12	2130.05	2132.03
7.5	2095.75	2097.68	2099.96	2102.18	2104.51	2106.94	2109.48	2111.88	2114.82	2117.62
10.0	2073.47	2075.71	2078.55	2081.24	2084.49	2087.13	2090.28	2093.46	2096.82	2100.35
12.5	2048.64	2051.17	2053.76	2056.52	2059.54	2062.77	2066.16	2069.80	2073.70	2077.27
15.0	2020.26	2022.65	2025.35	2028.35	2031.35	2035.04	2038.70	2042.73	2047.05	2051.60
17.5	1989.83	1991.91	1994.30	1997.04	2000.16	2003.49	2007.28	2011.49	2016.12	2021.23
20.0	1956.38	1958.05	1960.10	1962.59	1965.50	1968.82	1972.71	1977.05	1982.00	1987.53
22.5	1920.48	1921.50	1923.05	1925.12	1927.93	1931.41	1935.15	1939.39	1944.33	1949.89
25.0	1864.85	1874.16	1884.01	1885.43	1887.35	1890.07	1893.13	1896.90	1901.68	1907.19
27.5	1806.38	1815.05	1824.63	1833.82	1841.82	1843.39	1846.00	1849.64	1855.27	1859.84
30.0	1744.21	1752.20	1761.08	1770.10	1782.22	1794.04	1795.30	1798.90	1802.75	1807.85
32.5	1679.71	1687.13	1697.24	1704.85	1716.58	1729.13	1744.60	1746.08	1750.04	1755.50
35.0	1613.66	1620.63	1628.80	1637.49	1649.49	1662.59	1677.31	1693.20	1696.75	1701.60
37.5	1546.50	1553.85	1559.33	1570.39	1581.09	1593.81	1607.93	1623.80	1639.29	1643.05
40.0	1478.63	1484.14	1490.99	1499.48	1509.02	1520.63	1533.95	1548.90	1565.75	1577.12
42.5	1403.25	1412.93	1418.04	1424.62	1432.79	1442.46	1454.26	1468.65	1485.10	1503.86
45.0	1306.62	1324.11	1341.58	1346.00	1352.65	1361.39	1371.11	1383.17	1398.26	1416.96
47.5	1209.47	1226.45	1242.79	1261.98	1269.29	1274.19	1278.60	1289.35	1306.17	1323.65
50.0	1112.37	1125.60	1140.90	1156.62	1172.16	1179.99	1185.54	1195.16	1206.80	1219.70
52.5	1012.01	1023.43	1035.69	1047.52	1061.56	1077.59	1087.72	1095.07	1106.23	1120.47
55.0	910.17	919.63	929.07	940.28	953.14	967.48	982.63	996.71	1006.37	1020.17
57.5	804.68	815.93	824.64	835.19	844.62	859.06	872.99	893.42	908.10	919.74
60.0	665.33	694.61	722.97	730.57	740.24	747.56	763.88	783.98	806.52	818.47
62.5	529.26	559.88	590.86	619.43	629.38	641.59	657.02	673.35	690.34	706.71
65.0	396.67	427.74	459.68	484.06	511.21	537.95	548.22	561.17	574.61	594.43
67.5	266.79	300.73	331.84	360.08	390.64	415.66	440.44	454.28	468.42	483.81

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**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>70.0</b>	151.96	177.01	210.42	242.99	273.96	301.53	326.84	348.71	364.80	378.22
<b>72.5</b>	115.26	118.55	120.92	130.67	163.74	194.40	220.63	244.95	264.27	280.43
<b>75.0</b>	79.93	83.55	86.33	89.40	91.19	93.40	124.28	150.08	171.97	189.04
<b>77.5</b>	44.88	49.67	53.66	57.52	60.51	62.10	63.61	65.19	90.72	110.65
<b>80.0</b>	10.63	16.66	22.29	27.34	31.73	35.30	37.99	40.09	40.97	43.10
<b>82.5</b>	2.36	3.11	3.88	4.72	5.58	9.85	14.39	18.11	20.76	22.35
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.78	1.67	2.61	3.68	6.31
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<b><u>75.0</u></b>	<b><u>77.5</u></b>	<b><u>80.0</u></b>	<b><u>82.5</u></b>	<b><u>85.0</u></b>	<b><u>87.5</u></b>	<b><u>90.0</u></b>	<b><u>92.5</u></b>	<b><u>95.0</u></b>	<b><u>97.5</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2145.48	2146.51	2147.55	2148.61	2149.69	2150.79	2151.89	2152.02	2152.16	2152.31
<b>5.0</b>	2134.05	2136.12	2138.10	2140.30	2142.52	2144.74	2146.97	2147.22	2147.46	2147.71
<b>7.5</b>	2120.51	2123.49	2126.54	2129.67	2132.86	2136.11	2139.42	2139.87	2140.37	2140.92
<b>10.0</b>	2104.03	2107.87	2111.85	2115.53	2120.00	2124.49	2128.98	2129.56	2130.14	2130.72
<b>12.5</b>	2082.20	2086.74	2091.50	2096.47	2101.65	2107.03	2112.59	2113.42	2114.43	2115.61
<b>15.0</b>	2056.49	2061.71	2067.25	2073.10	2078.74	2085.55	2092.37	2093.29	2094.21	2096.26
<b>17.5</b>	2026.78	2032.70	2038.94	2045.62	2052.72	2060.21	2068.09	2069.33	2070.92	2072.87
<b>20.0</b>	1993.52	2000.05	2007.12	2014.71	2021.89	2031.18	2040.49	2041.68	2042.86	2046.12
<b>22.5</b>	1956.21	1962.47	1970.86	1979.14	1988.13	1997.80	2008.14	2009.83	2012.14	2015.06
<b>25.0</b>	1913.65	1920.95	1929.20	1938.37	1948.42	1958.95	1971.08	1972.68	1975.84	1979.38
<b>27.5</b>	1866.15	1873.50	1881.89	1891.26	1901.75	1913.36	1926.08	1928.57	1932.13	1936.77
<b>30.0</b>	1814.06	1821.40	1830.02	1839.92	1851.10	1862.93	1877.20	1879.08	1883.42	1888.40
<b>32.5</b>	1761.82	1769.39	1777.45	1789.03	1801.04	1814.42	1829.17	1831.85	1835.84	1841.14
<b>35.0</b>	1707.68	1715.61	1725.09	1736.30	1749.20	1762.98	1779.98	1782.18	1787.52	1793.58
<b>37.5</b>	1648.68	1655.51	1664.53	1675.68	1688.98	1704.45	1722.03	1725.40	1730.78	1738.16
<b>40.0</b>	1581.77	1588.74	1597.61	1608.87	1622.71	1637.88	1657.93	1660.38	1667.64	1676.09
<b>42.5</b>	1510.54	1516.31	1524.84	1536.08	1549.89	1566.75	1586.63	1590.92	1598.11	1608.10
<b>45.0</b>	1434.66	1439.33	1447.06	1457.75	1472.20	1488.63	1511.91	1515.06	1524.84	1536.14
<b>47.5</b>	1343.89	1352.58	1358.70	1367.92	1383.44	1402.01	1424.93	1430.74	1440.95	1454.23
<b>50.0</b>	1241.59	1260.46	1264.11	1274.15	1287.31	1302.40	1327.40	1330.92	1344.94	1361.57
<b>52.5</b>	1139.58	1162.89	1172.43	1180.65	1193.86	1212.30	1236.08	1242.11	1253.32	1269.55
<b>55.0</b>	1037.73	1059.19	1078.25	1085.71	1098.39	1113.84	1141.13	1145.11	1161.04	1179.71
<b>57.5</b>	935.65	955.67	981.20	989.19	1001.57	1020.16	1045.25	1053.16	1067.69	1088.38
<b>60.0</b>	828.66	847.11	876.75	896.90	906.90	918.28	943.35	948.27	968.57	992.22
<b>62.5</b>	718.60	745.60	767.97	788.21	791.99	805.40	827.78	843.52	870.54	901.32
<b>65.0</b>	613.73	627.00	648.00	677.70	681.96	691.17	710.96	725.45	749.71	777.39
<b>67.5</b>	501.77	520.20	539.51	562.73	573.82	581.99	600.84	614.96	639.79	663.27
<b>70.0</b>	397.16	421.54	433.78	448.65	466.80	472.02	487.43	501.85	530.22	543.30
<b>72.5</b>	297.51	314.18	327.60	342.64	362.40	372.17	393.95	402.18	424.30	437.32
<b>75.0</b>	200.85	218.22	232.98	246.18	261.01	271.84	289.00	295.91	311.97	330.22
<b>77.5</b>	125.35	135.58	148.55	161.33	171.46	182.46	195.78	202.54	216.33	236.74
<b>80.0</b>	61.59	72.99	79.37	89.52	93.91	98.78	109.18	121.97	134.00	149.71
<b>82.5</b>	23.14	26.59	35.88	38.26	37.15	35.01	38.93	52.82	70.36	83.87
<b>85.0</b>	8.97	10.47	10.90	12.45	10.73	10.26	10.41	14.65	28.04	36.39
<b>87.5</b>	0.00	0.97	2.61	4.02	4.47	3.43	2.21	3.99	9.16	12.27
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00	0.00

**Vert. Horizontal Angles**  
**Angles**

	<b><u>100.0</u></b>	<b><u>102.5</u></b>	<b><u>105.0</u></b>	<b><u>107.5</u></b>	<b><u>110.0</u></b>	<b><u>112.5</u></b>	<b><u>115.0</u></b>	<b><u>117.5</u></b>	<b><u>120.0</u></b>	<b><u>122.5</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2152.47	2152.64	2152.82	2153.00	2153.19	2153.39	2153.60	2153.81	2154.03	2154.26

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>5.0</b>	2147.95	2148.40	2148.74	2149.08	2149.45	2149.82	2150.21	2150.61	2151.02	2151.45
<b>7.5</b>	2141.50	2142.13	2142.79	2143.49	2144.22	2144.75	2145.76	2146.57	2147.39	2148.24
<b>10.0</b>	2132.02	2133.00	2134.07	2135.21	2136.43	2137.73	2139.10	2140.45	2141.83	2143.27
<b>12.5</b>	2116.96	2118.47	2120.15	2121.35	2123.80	2125.81	2127.96	2130.23	2132.50	2134.83
<b>15.0</b>	2098.04	2100.06	2102.31	2104.77	2107.45	2110.25	2113.20	2116.35	2119.31	2122.88
<b>17.5</b>	2075.15	2077.76	2080.64	2083.80	2087.29	2091.11	2095.13	2099.34	2103.77	2108.15
<b>20.0</b>	2048.90	2052.12	2055.78	2059.87	2064.23	2068.98	2074.14	2079.30	2084.67	2090.38
<b>22.5</b>	2018.60	2021.88	2027.21	2032.31	2037.98	2043.82	2050.05	2056.44	2063.29	2070.50
<b>25.0</b>	1983.68	1988.72	1994.49	2000.73	2007.50	2014.62	2022.65	2031.01	2039.70	2048.70
<b>27.5</b>	1942.46	1949.01	1956.44	1964.75	1973.37	1982.48	1992.10	2002.22	2012.47	2015.97
<b>30.0</b>	1894.66	1902.20	1911.08	1921.28	1932.68	1944.47	1956.17	1969.97	1972.13	1973.42
<b>32.5</b>	1846.71	1855.63	1864.81	1875.25	1886.93	1900.10	1914.41	1917.56	1921.74	1925.75
<b>35.0</b>	1801.11	1810.07	1820.11	1831.49	1844.06	1857.76	1859.08	1861.81	1866.17	1871.11
<b>37.5</b>	1747.47	1758.65	1771.67	1785.46	1800.61	1803.71	1805.77	1809.07	1813.59	1819.64
<b>40.0</b>	1686.90	1699.95	1714.99	1731.84	1740.75	1744.03	1748.81	1754.67	1761.62	1768.78
<b>42.5</b>	1620.61	1635.75	1653.22	1669.18	1672.56	1678.06	1685.37	1694.00	1704.25	1715.34
<b>45.0</b>	1550.61	1567.82	1587.80	1594.57	1599.93	1607.87	1617.95	1629.38	1642.53	1656.61
<b>47.5</b>	1473.09	1494.48	1511.28	1516.09	1523.90	1532.67	1545.03	1561.68	1578.09	1592.04
<b>50.0</b>	1382.27	1409.24	1419.14	1425.58	1440.06	1455.33	1471.79	1491.51	1504.25	1509.89
<b>52.5</b>	1290.62	1310.75	1317.89	1330.61	1346.47	1366.44	1389.17	1406.44	1414.35	1423.96
<b>55.0</b>	1203.54	1215.14	1223.83	1237.09	1253.99	1274.69	1289.82	1305.13	1318.31	1332.64
<b>57.5</b>	1113.08	1118.39	1129.75	1145.92	1166.49	1183.71	1191.41	1204.42	1218.76	1238.67
<b>60.0</b>	1010.61	1019.67	1034.16	1054.04	1074.70	1082.73	1094.67	1108.83	1126.85	1144.74
<b>62.5</b>	905.41	915.58	933.30	959.68	971.86	989.18	999.83	1015.74	1035.85	1051.40
<b>65.0</b>	787.32	801.71	823.16	847.27	861.53	887.40	914.81	927.20	930.35	940.15
<b>67.5</b>	672.02	690.48	707.74	725.88	754.09	776.75	811.18	821.83	817.03	826.73
<b>70.0</b>	557.91	578.71	596.67	619.01	646.33	669.92	677.99	697.77	709.36	716.32
<b>72.5</b>	450.85	466.27	490.05	516.93	534.69	551.30	567.10	574.58	595.29	609.66
<b>75.0</b>	349.98	366.38	384.54	407.87	422.02	438.36	457.61	468.84	477.07	489.89
<b>77.5</b>	251.59	271.21	285.67	301.70	317.22	331.77	351.41	365.33	364.57	373.97
<b>80.0</b>	167.01	181.05	194.02	207.58	222.88	236.98	249.95	260.15	261.83	263.79
<b>82.5</b>	95.00	105.58	117.96	130.23	140.35	149.46	156.61	162.77	159.44	140.34
<b>85.0</b>	44.36	52.47	59.00	63.23	62.99	53.91	39.91	20.70	0.00	0.00
<b>87.5</b>	12.48	6.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<b><u>125.0</u></b>	<b><u>127.5</u></b>	<b><u>130.0</u></b>	<b><u>132.5</u></b>	<b><u>135.0</u></b>	<b><u>137.5</u></b>	<b><u>140.0</u></b>	<b><u>142.5</u></b>	<b><u>145.0</u></b>	<b><u>147.5</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2154.49	2154.69	2154.79	2155.19	2155.43	2155.67	2155.92	2156.17	2156.42	2156.67
<b>5.0</b>	2151.88	2152.26	2152.83	2153.32	2153.83	2154.34	2154.86	2155.39	2155.90	2156.41
<b>7.5</b>	2149.10	2149.81	2150.71	2151.49	2152.28	2153.07	2153.81	2154.54	2155.28	2156.02
<b>10.0</b>	2144.76	2145.98	2147.47	2148.74	2150.02	2151.23	2152.43	2153.62	2154.69	2155.74
<b>12.5</b>	2137.25	2139.62	2141.80	2144.04	2146.25	2148.44	2150.68	2152.33	2153.90	2155.36
<b>15.0</b>	2126.26	2129.69	2133.10	2136.63	2139.91	2143.27	2146.22	2149.13	2151.97	2154.81
<b>17.5</b>	2112.63	2117.22	2121.93	2126.63	2131.18	2135.69	2140.16	2144.32	2148.03	2151.83
<b>20.0</b>	2096.49	2102.64	2108.70	2114.57	2120.39	2126.20	2126.86	2127.62	2128.41	2129.22
<b>22.5</b>	2078.03	2085.40	2092.69	2094.60	2095.95	2097.13	2098.52	2100.15	2101.98	2103.89
<b>25.0</b>	2057.15	2058.00	2059.42	2061.53	2063.33	2065.76	2068.70	2070.63	2074.13	2076.96
<b>27.5</b>	2018.63	2020.86	2023.32	2024.67	2028.99	2032.98	2036.60	2040.81	2044.99	2049.03
<b>30.0</b>	1977.10	1980.21	1984.02	1988.51	1993.20	1997.93	2003.16	2008.88	2014.30	2019.93
<b>32.5</b>	1931.95	1937.31	1942.94	1948.66	1954.98	1961.66	1968.44	1975.21	1982.21	1989.64
<b>35.0</b>	1880.64	1889.59	1898.54	1907.19	1914.33	1923.45	1932.12	1940.81	1949.41	1952.49
<b>37.5</b>	1825.39	1836.70	1848.54	1861.25	1873.23	1884.21	1890.21	1892.38	1894.93	1897.76
<b>40.0</b>	1776.87	1786.35	1797.36	1810.96	1820.73	1825.50	1829.68	1833.55	1837.77	1842.23

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

42.5	1727.01	1737.79	1745.10	1746.99	1751.43	1758.69	1766.01	1773.19	1779.57	1785.80
45.0	1671.84	1676.42	1678.10	1681.05	1685.53	1691.73	1700.46	1710.02	1719.19	1728.56
47.5	1596.06	1601.34	1607.82	1612.61	1620.41	1627.55	1635.61	1645.83	1657.97	1670.43
50.0	1516.79	1524.86	1532.40	1543.80	1553.71	1563.80	1572.99	1582.74	1595.01	1608.92
52.5	1434.97	1447.02	1458.12	1471.41	1484.65	1498.16	1510.33	1511.38	1513.35	1519.40
55.0	1349.55	1366.43	1383.03	1398.66	1411.30	1414.90	1419.29	1421.32	1425.70	1431.56
57.5	1258.68	1282.81	1302.13	1305.93	1311.20	1318.18	1325.72	1332.41	1336.94	1344.03
60.0	1167.57	1180.11	1192.08	1200.47	1208.20	1219.74	1231.03	1240.80	1249.71	1258.25
62.5	1058.93	1068.34	1081.86	1094.40	1104.66	1119.44	1135.51	1149.04	1160.57	1171.65
65.0	949.51	961.08	973.31	987.20	1001.80	1016.75	1038.54	1056.74	1063.24	1060.11
67.5	844.98	858.01	871.11	883.45	899.86	904.63	911.60	914.79	912.59	909.58
70.0	736.61	756.33	765.06	763.24	761.75	759.77	762.91	765.57	763.45	760.07
72.5	618.09	630.84	628.16	625.13	621.99	618.34	617.01	618.31	615.46	611.48
75.0	491.13	498.98	497.46	491.36	485.61	479.65	474.74	473.47	468.62	463.79
77.5	373.75	371.78	369.66	359.93	352.18	343.07	334.80	330.76	323.09	312.43
80.0	260.76	252.61	245.03	226.52	206.61	186.49	167.92	152.32	135.05	118.73
82.5	119.40	95.40	72.75	49.90	27.96	6.67	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
2.5	2156.93	2157.19	2157.44	2157.61	2157.88	2158.08	2158.28	2158.48	2158.67	2158.86
5.0	2156.91	2157.42	2157.92	2158.25	2159.00	2159.55	2160.11	2160.66	2161.23	2161.62
7.5	2156.82	2157.63	2158.44	2159.21	2159.94	2160.67	2161.26	2162.32	2163.22	2164.05
10.0	2156.74	2157.79	2158.81	2159.86	2160.94	2162.00	2162.94	2163.85	2165.01	2166.41
12.5	2156.74	2158.04	2159.26	2160.52	2161.83	2163.15	2164.49	2165.69	2166.79	2168.35
15.0	2156.70	2158.47	2159.95	2161.36	2162.72	2164.29	2165.89	2167.49	2168.87	2170.01
17.5	2152.83	2153.00	2152.27	2151.48	2150.57	2150.25	2150.31	2150.73	2151.38	2151.97
20.0	2130.00	2130.60	2131.26	2131.37	2131.02	2130.36	2130.34	2130.90	2131.76	2132.69
22.5	2105.75	2107.34	2108.75	2110.02	2110.70	2110.72	2110.58	2110.93	2112.06	2113.35
25.0	2079.98	2082.80	2085.33	2087.61	2089.46	2090.48	2090.73	2091.01	2092.27	2093.88
27.5	2052.98	2057.10	2060.95	2064.35	2067.44	2069.59	2070.80	2071.20	2072.33	2074.32
30.0	2025.31	2030.37	2035.65	2040.40	2044.50	2048.01	2050.24	2051.32	2052.25	2054.72
32.5	1996.55	2003.24	2009.26	2010.94	2011.94	2012.94	2013.01	2012.26	2011.17	2011.78
35.0	1954.86	1956.92	1959.15	1961.18	1963.67	1965.21	1966.70	1966.85	1966.13	1966.61
37.5	1901.34	1904.70	1907.35	1911.22	1914.90	1917.85	1920.26	1920.95	1921.00	1921.47
40.0	1846.80	1851.85	1856.56	1860.94	1865.39	1869.86	1873.18	1874.94	1875.74	1876.36
42.5	1791.89	1798.29	1804.53	1810.44	1815.72	1821.34	1826.09	1828.77	1830.35	1831.29
45.0	1736.54	1744.25	1752.07	1759.38	1765.67	1772.58	1778.59	1782.61	1784.81	1786.24
47.5	1680.58	1688.66	1699.16	1705.22	1707.39	1709.81	1712.50	1713.76	1713.25	1712.99
50.0	1613.39	1616.83	1620.23	1623.95	1627.35	1630.33	1633.75	1636.16	1636.21	1636.61
52.5	1526.57	1531.98	1537.19	1542.18	1546.85	1550.81	1555.10	1558.60	1558.89	1560.03
55.0	1439.39	1446.47	1453.96	1460.42	1466.38	1471.45	1476.48	1480.81	1482.19	1483.62
57.5	1351.75	1359.85	1370.36	1378.68	1385.88	1392.08	1397.92	1402.93	1405.28	1406.96
60.0	1267.00	1275.36	1285.98	1296.74	1305.29	1312.65	1319.17	1325.09	1328.40	1330.24
62.5	1182.33	1190.40	1198.15	1198.77	1196.68	1194.59	1192.72	1190.91	1188.57	1185.48
65.0	1056.09	1050.91	1047.42	1047.36	1045.26	1043.23	1041.26	1039.34	1037.40	1034.48
67.5	905.99	900.01	897.40	896.57	894.37	892.02	890.09	887.97	886.09	883.38
70.0	755.98	752.75	748.53	746.48	743.99	740.96	739.15	736.77	734.84	732.68
72.5	606.66	604.06	600.10	596.96	594.01	590.11	588.35	585.46	583.64	581.83
75.0	458.62	455.48	452.15	448.10	444.22	439.46	437.73	434.74	432.47	430.99
77.5	299.87	288.83	278.44	267.09	256.64	246.25	238.75	231.27	225.21	220.58

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>80.0</b>	103.37	88.64	74.83	61.47	49.11	37.84	28.14	19.67	12.66	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>175.0</u></b>	<b><u>177.5</u></b>	<b><u>180.0</u></b>	<b><u>182.5</u></b>	<b><u>185.0</u></b>	<b><u>187.5</u></b>	<b><u>190.0</u></b>	<b><u>192.5</u></b>	<b><u>195.0</u></b>	<b><u>197.5</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2159.04	2159.22	2159.39	2159.58	2159.76	2159.94	2160.11	2160.27	2160.42	2160.56
<b>5.0</b>	2162.01	2162.40	2162.79	2163.18	2163.56	2163.95	2164.33	2164.41	2164.46	2164.47
<b>7.5</b>	2164.81	2165.51	2166.19	2166.76	2167.32	2167.85	2167.97	2168.04	2168.08	2167.97
<b>10.0</b>	2167.57	2168.58	2169.59	2170.37	2171.14	2171.54	2171.57	2171.60	2171.43	2171.24
<b>12.5</b>	2170.09	2171.57	2172.99	2173.95	2174.73	2175.02	2175.13	2174.97	2174.57	2173.83
<b>15.0</b>	2172.55	2174.55	2176.39	2177.56	2178.39	2178.64	2178.55	2178.18	2177.36	2176.22
<b>17.5</b>	2153.51	2155.54	2157.55	2158.96	2160.02	2160.89	2161.72	2162.00	2162.24	2162.38
<b>20.0</b>	2133.57	2136.31	2138.71	2140.10	2140.65	2141.98	2142.42	2142.45	2142.54	2141.92
<b>22.5</b>	2114.42	2117.23	2119.87	2121.49	2122.30	2123.06	2122.98	2122.57	2121.97	2121.10
<b>25.0</b>	2094.84	2098.08	2101.02	2102.48	2102.70	2103.89	2103.30	2102.46	2101.48	2100.07
<b>27.5</b>	2076.28	2079.12	2082.18	2083.74	2084.34	2084.44	2083.39	2082.29	2080.77	2078.81
<b>30.0</b>	2056.34	2059.84	2063.34	2064.62	2064.62	2064.91	2063.37	2062.00	2059.80	2056.98
<b>32.5</b>	2013.14	2015.43	2018.65	2020.30	2021.55	2022.02	2022.00	2022.34	2022.33	2022.03
<b>35.0</b>	1968.24	1970.16	1973.96	1975.11	1976.71	1976.75	1976.71	1976.54	1975.67	1975.04
<b>37.5</b>	1923.32	1925.83	1929.27	1930.84	1931.82	1931.58	1931.52	1930.40	1929.28	1927.37
<b>40.0</b>	1878.37	1880.58	1884.57	1885.64	1886.67	1886.47	1885.71	1884.15	1881.96	1879.52
<b>42.5</b>	1833.41	1836.31	1839.88	1841.42	1841.62	1841.52	1840.13	1837.68	1835.15	1831.17
<b>45.0</b>	1788.45	1791.11	1795.19	1796.24	1796.59	1796.09	1794.71	1791.20	1787.32	1782.44
<b>47.5</b>	1713.73	1715.97	1719.28	1721.08	1721.75	1722.47	1722.59	1721.90	1721.24	1719.62
<b>50.0</b>	1637.66	1638.99	1643.37	1644.24	1645.52	1645.74	1645.22	1643.86	1642.31	1640.11
<b>52.5</b>	1561.50	1564.01	1567.46	1569.00	1569.27	1568.99	1567.89	1565.86	1563.48	1560.65
<b>55.0</b>	1485.51	1487.33	1491.55	1492.15	1493.11	1492.17	1490.47	1487.82	1484.64	1481.23
<b>57.5</b>	1409.41	1412.18	1415.64	1416.76	1416.57	1415.30	1412.96	1409.75	1405.78	1401.75
<b>60.0</b>	1330.43	1335.54	1339.73	1339.91	1337.30	1338.41	1335.44	1331.70	1326.97	1322.95
<b>62.5</b>	1184.93	1185.91	1188.46	1189.96	1191.52	1193.16	1194.93	1197.80	1200.20	1203.97
<b>65.0</b>	1028.71	1033.60	1037.19	1037.31	1034.96	1041.59	1043.50	1045.77	1048.70	1052.34
<b>67.5</b>	882.59	883.82	885.92	887.19	888.54	890.05	891.74	894.25	897.36	900.90
<b>70.0</b>	727.21	731.73	734.65	734.75	732.81	738.62	740.28	742.85	746.42	749.62
<b>72.5</b>	580.31	581.77	583.38	584.43	585.58	587.01	588.89	591.56	594.90	598.52
<b>75.0</b>	425.90	429.93	432.10	432.23	430.81	435.53	437.56	440.50	443.84	447.57
<b>77.5</b>	216.84	215.94	216.05	217.11	219.37	222.94	227.95	234.41	242.29	251.37
<b>80.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	12.81	19.94	28.56	38.60
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>200.0</u></b>	<b><u>202.5</u></b>	<b><u>205.0</u></b>	<b><u>207.5</u></b>	<b><u>210.0</u></b>	<b><u>212.5</u></b>	<b><u>215.0</u></b>	<b><u>217.5</u></b>	<b><u>220.0</u></b>	<b><u>222.5</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2160.70	2160.82	2160.84	2160.83	2160.80	2160.75	2160.70	2160.65	2160.58	2160.51
<b>5.0</b>	2164.46	2164.44	2164.34	2164.18	2164.02	2163.84	2163.65	2163.45	2163.00	2162.60
<b>7.5</b>	2167.79	2167.60	2167.22	2166.68	2166.13	2165.60	2164.93	2164.29	2163.64	2163.08
<b>10.0</b>	2170.60	2169.94	2169.19	2168.34	2167.50	2166.28	2165.06	2164.01	2162.29	2160.82
<b>12.5</b>	2172.94	2171.89	2170.57	2168.98	2167.24	2165.32	2163.35	2161.30	2159.20	2156.95

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

15.0	2175.09	2172.91	2170.78	2168.45	2165.95	2163.42	2160.55	2158.02	2154.48	2151.72
17.5	2162.23	2161.96	2161.78	2161.73	2161.48	2160.27	2156.37	2152.61	2148.73	2144.38
20.0	2141.30	2140.68	2140.01	2139.71	2138.36	2137.76	2137.16	2136.54	2136.18	2135.83
22.5	2120.06	2118.84	2117.46	2116.07	2115.02	2113.29	2112.04	2110.63	2109.20	2108.11
25.0	2098.39	2096.45	2094.47	2092.39	2090.24	2088.08	2085.75	2083.10	2080.48	2078.24
27.5	2076.70	2073.79	2070.94	2068.10	2064.87	2061.29	2057.62	2053.93	2050.41	2047.04
30.0	2054.09	2050.70	2047.13	2042.97	2038.34	2033.52	2028.60	2023.47	2018.79	2014.10
32.5	2022.01	2022.38	2022.48	2016.92	2011.01	2004.83	1998.09	1992.96	1985.50	1979.17
35.0	1974.06	1973.35	1972.55	1971.15	1970.22	1968.91	1966.83	1958.82	1950.62	1942.59
37.5	1925.87	1923.59	1921.44	1919.30	1916.81	1915.69	1912.98	1911.26	1910.54	1905.51
40.0	1876.59	1873.31	1870.13	1866.71	1862.85	1859.74	1856.46	1853.91	1851.63	1849.88
42.5	1827.01	1822.85	1818.38	1813.46	1808.59	1804.10	1799.21	1795.29	1791.31	1787.71
45.0	1777.05	1771.84	1766.25	1760.20	1754.06	1747.64	1741.72	1735.63	1730.27	1724.07
47.5	1718.51	1717.91	1713.69	1706.13	1698.82	1690.94	1683.54	1674.92	1666.76	1659.32
50.0	1638.44	1637.40	1634.73	1634.01	1632.87	1632.11	1624.56	1613.28	1603.00	1592.83
52.5	1558.07	1555.59	1552.57	1550.54	1548.08	1545.68	1544.04	1540.26	1537.52	1525.28
55.0	1477.73	1474.11	1470.35	1466.89	1463.01	1458.50	1454.18	1449.55	1445.15	1441.59
57.5	1397.39	1392.62	1388.09	1383.24	1377.71	1371.03	1364.13	1357.37	1350.88	1345.02
60.0	1317.00	1311.25	1305.60	1299.33	1291.86	1283.17	1274.30	1265.12	1256.53	1247.83
62.5	1208.50	1213.53	1220.03	1215.43	1205.88	1195.20	1183.75	1172.58	1161.65	1150.21
65.0	1057.14	1061.39	1067.19	1072.82	1077.43	1081.87	1085.36	1080.27	1066.52	1052.68
67.5	905.04	909.54	914.88	918.34	924.49	928.34	932.26	936.62	939.55	942.91
70.0	753.58	758.41	762.75	767.80	772.68	775.50	780.17	784.30	787.33	791.25
72.5	602.49	606.37	611.03	616.10	620.64	623.51	629.48	633.25	637.51	641.61
75.0	451.11	455.04	460.12	464.87	470.12	472.87	479.61	483.75	489.71	494.36
77.5	260.77	271.25	282.74	295.23	307.72	318.82	330.96	334.97	343.78	349.01
80.0	49.89	62.38	76.02	90.76	105.87	121.44	137.92	153.50	171.57	186.70
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.67
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
2.5	2160.44	2160.36	2160.27	2160.17	2160.06	2159.92	2159.78	2159.64	2159.50	2159.35
5.0	2162.20	2161.79	2161.38	2160.97	2160.68	2160.14	2159.72	2159.31	2158.91	2158.51
7.5	2162.08	2161.22	2160.38	2159.56	2158.62	2157.66	2156.72	2155.81	2154.94	2154.10
10.0	2159.55	2157.77	2156.23	2154.72	2153.19	2151.68	2150.23	2148.84	2147.74	2146.05
12.5	2154.75	2152.46	2150.07	2147.76	2145.51	2143.33	2141.23	2139.58	2137.04	2135.05
15.0	2148.31	2145.34	2141.97	2138.73	2135.58	2132.53	2129.60	2126.60	2123.73	2121.06
17.5	2140.20	2136.14	2131.84	2127.50	2123.21	2118.99	2115.70	2110.68	2106.76	2103.07
20.0	2130.44	2124.89	2119.27	2113.41	2107.82	2102.47	2097.22	2092.12	2087.87	2082.49
22.5	2106.69	2105.81	2105.26	2097.76	2090.98	2084.33	2077.54	2070.97	2064.71	2058.60
25.0	2076.31	2074.73	2073.71	2072.54	2071.54	2062.88	2054.80	2047.28	2039.11	2031.69
27.5	2044.91	2041.25	2038.50	2036.57	2035.26	2034.11	2029.49	2019.56	2010.21	2001.38
30.0	2009.46	2005.36	2001.60	1998.16	1995.24	1992.99	1991.33	1989.76	1978.41	1967.70
32.5	1973.13	1967.45	1962.29	1957.50	1953.21	1949.33	1946.25	1944.09	1942.87	1930.82
35.0	1935.40	1928.44	1922.20	1915.56	1908.84	1903.26	1898.49	1894.79	1892.30	1891.09
37.5	1896.13	1886.81	1877.84	1869.62	1861.49	1854.10	1847.88	1842.26	1837.86	1834.89
40.0	1849.26	1844.04	1833.07	1822.04	1812.01	1802.29	1793.52	1785.98	1779.59	1774.92
42.5	1784.83	1782.75	1781.06	1772.64	1759.51	1747.55	1736.25	1726.39	1717.96	1710.68
45.0	1719.33	1714.61	1710.90	1708.02	1705.08	1689.89	1676.09	1663.11	1651.90	1642.36
47.5	1651.67	1644.72	1638.50	1633.28	1629.11	1626.37	1612.53	1596.63	1582.38	1569.96
50.0	1582.72	1573.21	1564.42	1556.36	1549.65	1543.74	1539.82	1527.87	1510.57	1496.82



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>52.5</b>	1512.72	1500.45	1487.90	1478.39	1467.87	1459.61	1452.59	1448.38	1436.75	1416.42
<b>55.0</b>	1438.78	1426.60	1412.42	1398.06	1385.25	1372.73	1362.18	1353.77	1346.71	1330.51
<b>57.5</b>	1339.57	1335.36	1332.11	1317.78	1299.88	1282.75	1267.50	1253.30	1242.42	1233.29
<b>60.0</b>	1239.73	1232.66	1227.30	1221.99	1211.59	1189.66	1169.19	1152.19	1137.48	1126.78
<b>62.5</b>	1139.83	1129.21	1125.48	1113.29	1100.94	1088.83	1072.34	1052.36	1035.47	1022.78
<b>65.0</b>	1038.86	1030.77	1021.11	1005.57	990.26	976.57	964.59	955.49	934.47	915.87
<b>67.5</b>	938.36	935.94	918.38	899.50	882.42	865.06	851.22	840.83	828.51	805.54
<b>70.0</b>	797.03	807.17	808.59	795.95	776.43	754.94	738.64	722.42	705.22	692.40
<b>72.5</b>	650.64	654.70	656.57	659.12	655.55	647.76	628.08	606.91	591.11	572.06
<b>75.0</b>	504.80	506.90	510.00	513.37	509.23	509.64	504.18	499.65	482.47	459.46
<b>77.5</b>	356.72	361.54	367.29	369.43	372.62	373.34	371.35	371.12	363.97	353.20
<b>80.0</b>	202.47	214.05	227.53	231.43	238.66	242.99	245.73	247.49	246.34	242.68
<b>82.5</b>	27.31	46.67	66.40	83.30	99.56	113.26	124.80	132.07	137.11	140.29
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.00	31.28	43.88
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Angles**      **Horizontal Angles**

	<b>250.0</b>	<b>252.5</b>	<b>255.0</b>	<b>257.5</b>	<b>260.0</b>	<b>262.5</b>	<b>265.0</b>	<b>267.5</b>	<b>270.0</b>	<b>272.5</b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2159.20	2159.05	2158.90	2158.75	2158.60	2158.45	2158.29	2158.14	2157.99	2156.85
<b>5.0</b>	2158.12	2157.74	2157.37	2157.00	2156.64	2156.30	2155.97	2155.64	2155.33	2153.05
<b>7.5</b>	2153.45	2152.44	2151.66	2150.93	2150.25	2149.61	2149.03	2148.50	2148.03	2144.62
<b>10.0</b>	2144.72	2143.47	2142.30	2141.22	2140.24	2139.34	2138.53	2137.82	2137.20	2132.64
<b>12.5</b>	2133.18	2131.45	2130.26	2128.28	2126.88	2125.64	2124.54	2123.60	2122.82	2117.11
<b>15.0</b>	2119.12	2115.99	2113.68	2111.58	2109.70	2108.04	2106.61	2105.41	2104.45	2097.57
<b>17.5</b>	2099.59	2096.38	2093.43	2091.44	2088.30	2086.18	2084.38	2082.90	2081.75	2073.63
<b>20.0</b>	2078.02	2074.25	2069.95	2066.46	2063.40	2060.75	2058.53	2056.73	2055.35	2046.00
<b>22.5</b>	2053.95	2047.73	2042.88	2038.48	2034.52	2031.09	2028.23	2025.95	2024.25	2013.72
<b>25.0</b>	2024.55	2018.04	2013.46	2006.92	2002.35	1998.47	1995.28	1992.79	1990.98	1979.08
<b>27.5</b>	1993.07	1985.39	1978.31	1972.07	1967.43	1961.86	1957.98	1955.02	1952.99	1939.77
<b>30.0</b>	1958.16	1948.54	1940.29	1932.76	1926.14	1920.59	1916.13	1912.77	1910.52	1895.85
<b>32.5</b>	1919.06	1908.33	1898.49	1889.66	1882.05	1875.47	1870.19	1866.28	1863.76	1847.77
<b>35.0</b>	1876.95	1864.01	1852.18	1842.87	1832.41	1824.70	1818.59	1814.10	1811.25	1793.96
<b>37.5</b>	1830.62	1815.38	1802.04	1789.35	1778.73	1769.71	1762.40	1757.07	1753.75	1735.18
<b>40.0</b>	1772.11	1763.37	1746.83	1732.25	1719.75	1709.31	1701.07	1695.09	1691.45	1671.68
<b>42.5</b>	1705.48	1702.79	1687.28	1670.24	1655.61	1645.22	1634.38	1627.83	1624.10	1603.03
<b>45.0</b>	1634.57	1629.05	1624.44	1602.84	1586.42	1572.85	1562.47	1555.28	1551.36	1528.82
<b>47.5</b>	1559.72	1551.95	1547.03	1532.94	1512.74	1497.26	1484.80	1476.22	1471.69	1446.91
<b>50.0</b>	1483.41	1471.08	1462.49	1452.96	1429.85	1411.03	1396.76	1387.15	1382.24	1355.51
<b>52.5</b>	1397.40	1381.31	1370.14	1361.34	1341.01	1319.56	1303.32	1292.42	1286.98	1259.60
<b>55.0</b>	1307.08	1287.24	1272.13	1261.76	1248.76	1225.50	1207.97	1196.26	1190.50	1163.26
<b>57.5</b>	1215.11	1192.68	1175.11	1162.84	1156.05	1132.68	1113.69	1101.13	1095.19	1066.91
<b>60.0</b>	1120.03	1100.36	1080.25	1064.64	1054.76	1037.55	1016.00	1001.86	995.37	963.38
<b>62.5</b>	1012.49	1008.58	983.55	964.30	951.79	934.16	913.36	897.11	894.29	859.08
<b>65.0</b>	900.56	894.31	897.09	860.51	835.09	819.35	797.05	783.15	780.36	743.52
<b>67.5</b>	789.30	779.15	771.48	750.42	719.42	697.91	675.50	660.62	657.44	624.44
<b>70.0</b>	674.07	655.79	644.61	635.75	608.14	584.15	566.86	547.60	540.97	512.59
<b>72.5</b>	554.65	542.47	530.27	518.83	502.33	474.12	460.30	440.03	429.94	407.17
<b>75.0</b>	443.21	434.66	425.57	405.26	391.29	372.92	356.89	336.02	322.02	302.23
<b>77.5</b>	338.24	327.02	314.84	302.72	286.07	275.35	255.83	238.79	222.61	209.44
<b>80.0</b>	236.08	226.56	215.49	204.67	194.73	180.07	160.27	138.40	121.61	119.09
<b>82.5</b>	139.93	136.43	129.31	119.55	112.03	100.63	80.63	62.99	48.49	49.98
<b>85.0</b>	53.51	59.25	60.44	58.05	52.06	43.99	32.33	20.60	16.37	13.93
<b>87.5</b>	0.00	0.00	0.00	6.91	14.09	15.07	11.60	8.09	3.18	3.16

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.30	0.00
<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>275.0</u></b>	<b><u>277.5</u></b>	<b><u>280.0</u></b>	<b><u>282.5</u></b>	<b><u>285.0</u></b>	<b><u>287.5</u></b>	<b><u>290.0</u></b>	<b><u>292.5</u></b>	<b><u>295.0</u></b>	<b><u>297.5</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2155.70	2154.57	2153.44	2152.32	2151.21	2150.12	2149.04	2147.98	2146.94	2145.92
<b>5.0</b>	2150.78	2148.53	2146.31	2144.12	2141.96	2139.84	2137.77	2135.74	2133.75	2131.83
<b>7.5</b>	2141.28	2138.00	2134.79	2131.67	2128.63	2125.68	2123.00	2120.04	2117.32	2114.70
<b>10.0</b>	2128.19	2123.85	2119.63	2115.54	2111.59	2107.78	2104.12	2100.63	2097.56	2094.03
<b>12.5</b>	2111.58	2106.24	2101.08	2096.13	2091.85	2086.82	2082.42	2078.24	2074.29	2071.00
<b>15.0</b>	2090.95	2084.59	2078.51	2072.72	2067.23	2062.05	2057.80	2052.50	2048.06	2043.97
<b>17.5</b>	2065.87	2058.47	2051.46	2045.55	2038.62	2032.78	2027.38	2022.43	2017.85	2013.67
<b>20.0</b>	2037.10	2028.67	2020.74	2013.32	2006.44	2000.52	1994.32	1989.07	1984.99	1979.91
<b>22.5</b>	2003.80	1994.52	1985.89	1977.94	1970.66	1964.05	1959.10	1952.58	1947.62	1943.27
<b>25.0</b>	1967.91	1957.51	1947.91	1939.14	1932.54	1924.08	1917.71	1912.18	1907.38	1903.65
<b>27.5</b>	1927.52	1916.28	1906.86	1896.59	1888.02	1880.45	1875.02	1868.72	1864.26	1860.61
<b>30.0</b>	1882.36	1870.07	1859.05	1849.31	1840.73	1833.13	1827.23	1821.62	1817.55	1813.84
<b>32.5</b>	1833.21	1820.11	1808.44	1798.04	1789.09	1781.46	1775.05	1770.19	1767.67	1751.73
<b>35.0</b>	1778.37	1764.50	1752.39	1743.20	1733.25	1726.14	1720.41	1716.21	1699.63	1684.86
<b>37.5</b>	1718.70	1704.31	1691.85	1681.30	1673.17	1666.07	1661.30	1645.76	1629.55	1615.22
<b>40.0</b>	1654.29	1639.28	1626.60	1616.14	1607.89	1601.97	1589.11	1570.97	1555.17	1541.53
<b>42.5</b>	1584.79	1570.80	1556.55	1546.55	1539.28	1531.02	1510.36	1492.49	1477.27	1464.25
<b>45.0</b>	1509.67	1494.07	1482.11	1472.89	1468.58	1446.97	1426.86	1410.15	1396.36	1384.19
<b>47.5</b>	1426.38	1410.13	1397.88	1391.47	1379.06	1357.08	1338.54	1322.38	1309.74	1300.13
<b>50.0</b>	1333.64	1316.74	1304.84	1297.75	1278.28	1258.15	1243.28	1229.88	1218.47	1210.85
<b>52.5</b>	1237.51	1220.54	1208.56	1196.49	1175.36	1156.45	1141.60	1129.65	1121.81	1108.04
<b>55.0</b>	1141.74	1125.62	1114.53	1095.63	1073.76	1056.12	1042.91	1032.42	1015.77	992.84
<b>57.5</b>	1045.25	1030.12	1019.79	995.47	977.97	964.64	948.55	929.64	903.24	880.01
<b>60.0</b>	939.87	925.32	910.64	890.65	874.35	863.01	854.00	819.69	788.27	768.98
<b>62.5</b>	836.87	816.92	793.57	772.77	764.58	760.32	730.40	703.46	677.54	653.09
<b>65.0</b>	716.83	697.78	679.46	664.43	655.09	631.64	613.16	587.95	562.28	540.68
<b>67.5</b>	603.56	584.84	566.10	554.30	540.19	515.69	494.41	478.59	452.58	423.04
<b>70.0</b>	493.45	471.93	458.47	448.76	425.35	404.66	386.51	365.90	342.07	310.05
<b>72.5</b>	396.59	372.16	355.65	338.70	318.99	300.64	280.98	258.74	232.49	203.61
<b>75.0</b>	289.39	272.20	256.81	238.87	222.48	205.70	185.88	160.44	131.86	99.20
<b>77.5</b>	196.14	183.94	168.30	152.03	139.79	122.90	100.33	72.40	68.90	66.37
<b>80.0</b>	115.27	106.17	92.46	85.00	72.00	51.02	47.16	44.87	41.31	37.17
<b>82.5</b>	53.33	48.29	43.80	33.67	28.69	26.57	23.70	20.04	15.41	10.07
<b>85.0</b>	17.19	16.88	13.96	12.99	10.57	6.90	3.65	2.63	1.65	0.77
<b>87.5</b>	5.20	4.54	2.64	0.95	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

<b>Vert. Angles</b>	<b>Horizontal Angles</b>									
	<b><u>300.0</u></b>	<b><u>302.5</u></b>	<b><u>305.0</u></b>	<b><u>307.5</u></b>	<b><u>310.0</u></b>	<b><u>312.5</u></b>	<b><u>315.0</u></b>	<b><u>317.5</u></b>	<b><u>320.0</u></b>	<b><u>322.5</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2144.93	2143.96	2143.03	2142.10	2141.20	2140.32	2139.47	2138.67	2137.89	2137.16
<b>5.0</b>	2129.96	2128.15	2126.52	2124.72	2123.11	2121.56	2120.09	2118.69	2117.38	2116.20
<b>7.5</b>	2112.19	2109.80	2107.53	2105.32	2103.09	2101.85	2099.00	2097.27	2095.26	2093.45
<b>10.0</b>	2091.29	2087.93	2085.15	2082.51	2079.97	2077.62	2075.63	2073.31	2071.34	2069.76
<b>12.5</b>	2067.00	2063.59	2060.42	2057.47	2054.72	2052.21	2049.84	2047.59	2045.61	2043.61
<b>15.0</b>	2040.20	2036.60	2033.33	2030.30	2027.45	2024.95	2022.38	2020.49	2018.11	2016.72
<b>17.5</b>	2010.83	2006.42	2003.17	2000.24	1997.62	1995.29	1993.09	1991.16	1989.48	1987.77
<b>20.0</b>	1975.96	1972.50	1969.54	1967.08	1965.11	1963.16	1961.42	1960.28	1953.08	1946.88
<b>22.5</b>	1939.47	1936.30	1933.60	1931.30	1929.89	1921.78	1914.07	1907.19	1900.22	1894.03

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

25.0	1900.08	1897.38	1895.05	1884.97	1875.56	1866.85	1858.78	1851.57	1845.26	1839.72
27.5	1857.60	1849.30	1838.04	1827.74	1818.33	1809.61	1802.49	1794.94	1788.59	1783.11
30.0	1801.20	1789.49	1778.44	1768.16	1758.76	1750.42	1743.12	1736.34	1730.60	1725.65
32.5	1738.54	1726.65	1716.81	1706.05	1697.56	1689.68	1682.40	1676.50	1671.17	1667.68
35.0	1671.90	1660.66	1651.00	1642.70	1634.24	1627.18	1620.90	1615.28	1610.40	1606.85
37.5	1602.52	1591.59	1582.32	1575.12	1567.70	1561.74	1556.83	1552.93	1544.40	1529.86
40.0	1529.76	1519.83	1511.27	1504.62	1499.23	1494.90	1484.09	1468.10	1454.39	1441.77
42.5	1453.47	1444.72	1437.75	1432.26	1422.91	1406.24	1390.48	1376.34	1365.16	1351.38
45.0	1374.45	1366.80	1361.38	1343.22	1325.83	1310.06	1296.06	1282.77	1271.48	1259.91
47.5	1293.06	1282.87	1260.71	1241.73	1227.16	1212.22	1199.65	1188.11	1177.38	1167.78
50.0	1198.49	1176.86	1156.20	1137.97	1122.95	1111.11	1101.51	1092.28	1082.97	1074.65
52.5	1087.14	1067.61	1049.35	1032.87	1018.65	1007.84	1000.62	994.47	987.87	962.37
55.0	975.00	957.70	941.18	926.26	913.30	903.73	893.01	869.79	844.97	818.72
57.5	860.39	847.58	833.53	819.57	804.74	777.02	751.39	726.48	701.87	676.45
60.0	750.52	734.40	726.63	698.56	668.71	640.15	612.50	586.60	560.50	534.35
62.5	641.25	620.19	591.73	566.47	535.82	506.37	477.00	449.14	421.39	393.39
65.0	516.59	493.63	463.77	434.92	406.00	374.33	344.33	314.04	285.13	254.39
67.5	394.86	369.27	340.60	309.12	278.61	245.65	214.17	201.01	198.76	194.79
70.0	280.36	250.91	221.22	188.04	165.37	163.21	160.14	157.23	153.76	150.04
72.5	171.02	139.35	130.57	127.93	125.16	121.59	117.81	114.33	109.89	105.75
75.0	96.63	95.17	93.12	90.10	86.08	81.38	76.98	72.54	66.83	61.82
77.5	64.04	61.06	57.64	53.17	47.92	42.35	36.55	30.57	24.35	18.09
80.0	33.34	28.69	23.35	17.36	10.73	7.32	6.66	6.03	5.40	4.76
82.5	5.48	4.56	3.80	3.08	2.31	1.61	0.90	0.22	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert.  
Angles**

**Horizontal Angles**

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99	2155.99
2.5	2136.47	2135.81	2135.20	2134.63	2134.09	2133.57	2133.01	2132.50	2132.03	2131.60
5.0	2114.88	2113.65	2112.52	2111.47	2110.51	2109.61	2108.76	2108.01	2107.35	2106.78
7.5	2091.78	2090.26	2088.77	2087.45	2086.25	2085.10	2083.96	2082.97	2082.09	2081.29
10.0	2067.70	2065.98	2064.43	2062.75	2061.26	2059.91	2058.68	2057.63	2056.53	2055.62
12.5	2041.85	2040.18	2038.68	2037.21	2035.81	2034.43	2033.07	2031.84	2030.75	2029.75
15.0	2014.73	2013.35	2011.83	2010.54	2009.34	2008.20	2007.33	2005.90	2004.79	2003.74
17.5	1986.28	1985.08	1981.36	1977.03	1972.78	1969.00	1965.66	1962.49	1959.45	1956.71
20.0	1940.91	1935.45	1930.46	1926.49	1922.02	1918.30	1914.96	1912.01	1909.29	1906.24
22.5	1888.42	1883.28	1878.83	1874.21	1870.34	1866.85	1863.69	1860.89	1858.31	1855.65
25.0	1834.46	1829.45	1825.18	1821.35	1817.85	1814.73	1811.87	1809.35	1807.18	1804.84
27.5	1778.53	1774.27	1770.42	1767.22	1764.41	1761.91	1760.04	1757.37	1755.57	1753.80
30.0	1721.23	1717.75	1714.74	1711.99	1709.97	1708.43	1706.70	1705.03	1703.56	1702.47
32.5	1663.28	1660.10	1657.88	1656.10	1654.54	1647.60	1641.23	1635.55	1630.21	1625.92
35.0	1603.77	1595.02	1584.94	1576.28	1568.74	1561.43	1555.54	1550.35	1545.44	1541.42
37.5	1518.06	1508.16	1497.86	1489.28	1481.93	1475.21	1469.66	1464.66	1460.79	1456.59
40.0	1429.25	1419.10	1410.01	1402.01	1394.92	1388.77	1383.28	1378.85	1375.00	1371.64
42.5	1340.09	1330.26	1321.77	1314.43	1307.71	1302.01	1297.00	1292.72	1289.73	1286.59
45.0	1250.25	1240.71	1233.03	1226.80	1220.34	1215.01	1210.60	1206.56	1203.65	1201.46
47.5	1159.32	1150.93	1143.70	1137.95	1132.74	1122.40	1106.61	1092.70	1080.77	1070.75
50.0	1067.84	1057.48	1034.40	1013.45	994.13	976.56	959.99	945.78	933.26	922.87
52.5	937.88	912.90	890.00	868.43	848.61	830.32	813.53	798.99	786.03	775.18
55.0	793.14	768.73	745.96	723.93	703.49	684.66	667.32	652.31	639.02	627.65
57.5	649.98	625.06	601.94	579.81	558.78	539.23	521.40	505.79	492.16	480.27
60.0	507.77	481.73	458.28	435.99	414.48	394.14	375.71	359.66	345.41	333.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**CANDELA TABULATION - (Cont.)**

<b>62.5</b>	366.67	339.44	314.99	292.38	275.25	271.59	268.39	265.46	263.36	261.18
<b>65.0</b>	237.82	234.47	231.56	229.71	227.08	223.52	220.31	217.06	214.83	212.56
<b>67.5</b>	191.27	188.07	184.42	182.02	179.19	175.57	172.04	168.79	166.37	164.05
<b>70.0</b>	145.54	142.09	137.85	134.70	131.41	127.78	123.98	120.63	118.01	115.54
<b>72.5</b>	100.56	96.43	91.72	87.72	83.87	79.89	76.02	72.52	69.58	67.05
<b>75.0</b>	56.12	50.99	45.86	41.03	36.57	32.18	28.08	24.43	21.26	18.58
<b>77.5</b>	11.92	9.55	9.12	8.66	8.24	7.88	7.51	7.18	6.91	6.69
<b>80.0</b>	4.18	3.64	3.14	2.67	2.22	1.81	1.44	1.10	0.81	0.57
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Vert. Horizontal Angles**

	<b><u>350.0</u></b>	<b><u>352.5</u></b>	<b><u>355.0</u></b>	<b><u>357.5</u></b>	<b><u>360.0</u></b>
<b>0.0</b>	2155.99	2155.99	2155.99	2155.99	2155.99
<b>2.5</b>	2131.23	2130.90	2130.62	2130.39	2130.21
<b>5.0</b>	2106.19	2105.60	2105.11	2104.72	2104.43
<b>7.5</b>	2080.62	2080.09	2079.46	2078.98	2078.65
<b>10.0</b>	2054.83	2054.19	2053.66	2053.17	2052.86
<b>12.5</b>	2028.89	2028.19	2027.72	2027.29	2027.08
<b>15.0</b>	2002.83	2002.13	2001.62	2001.34	2001.30
<b>17.5</b>	1954.35	1952.40	1950.99	1950.14	1949.88
<b>20.0</b>	1903.64	1901.48	1899.85	1898.81	1898.45
<b>22.5</b>	1852.99	1850.60	1848.76	1847.50	1847.03
<b>25.0</b>	1802.26	1799.72	1797.68	1796.20	1795.60
<b>27.5</b>	1751.44	1748.86	1746.61	1744.94	1744.18
<b>30.0</b>	1700.62	1698.05	1695.57	1693.68	1692.75
<b>32.5</b>	1621.82	1617.64	1613.65	1610.79	1609.45
<b>35.0</b>	1537.84	1534.08	1530.47	1527.59	1526.15
<b>37.5</b>	1453.83	1450.40	1447.25	1444.38	1442.85
<b>40.0</b>	1369.08	1366.59	1363.84	1361.17	1359.55
<b>42.5</b>	1284.53	1282.75	1280.36	1277.94	1276.25
<b>45.0</b>	1200.09	1198.32	1196.81	1194.71	1192.95
<b>47.5</b>	1062.64	1056.08	1051.01	1046.92	1044.44
<b>50.0</b>	914.42	907.63	902.37	898.39	895.93
<b>52.5</b>	766.34	759.27	753.72	749.84	747.42
<b>55.0</b>	618.39	610.96	605.13	601.25	598.91
<b>57.5</b>	470.52	462.70	456.44	452.63	450.40
<b>60.0</b>	322.73	314.49	307.84	304.01	301.90
<b>62.5</b>	259.15	257.45	255.62	254.63	253.62
<b>65.0</b>	210.61	208.89	207.16	206.20	205.33
<b>67.5</b>	162.00	160.32	158.70	157.76	157.05
<b>70.0</b>	113.44	111.74	110.23	109.33	108.77
<b>72.5</b>	64.90	63.14	61.75	60.89	60.49
<b>75.0</b>	16.37	14.56	13.26	12.46	12.20
<b>77.5</b>	6.52	6.34	6.21	6.13	6.10
<b>80.0</b>	0.37	0.21	0.09	0.02	0.00
<b>82.5</b>	0.00	0.00	0.00	0.00	0.00
<b>85.0</b>	0.00	0.00	0.00	0.00	0.00
<b>87.5</b>	0.00	0.00	0.00	0.00	0.00
<b>90.0</b>	0.00	0.00	0.00	0.00	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	792.04	13.30	13.30
0-30	1696.21	28.40	28.50
0-40	2803.03	46.90	47.10
0-60	4955.85	83.00	83.40
0-80	5922.81	99.20	99.60
0-90	5945.44	99.60	100.00
10-90	5741.94	96.20	96.60
20-40	2010.99	33.70	33.80
20-50	3165.31	53.00	53.20
40-70	2830.64	47.40	47.60
60-80	966.96	16.20	16.30
70-80	289.14	4.80	4.90
80-90	22.63	0.40	0.40
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	5945.44	99.60	100.00

Total Luminaire Efficiency = 99.60%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	203.50
10-20	588.54
20-30	904.18
30-40	1106.82
40-50	1154.32
50-60	998.50
60-70	677.82
70-80	289.14
80-90	22.63
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

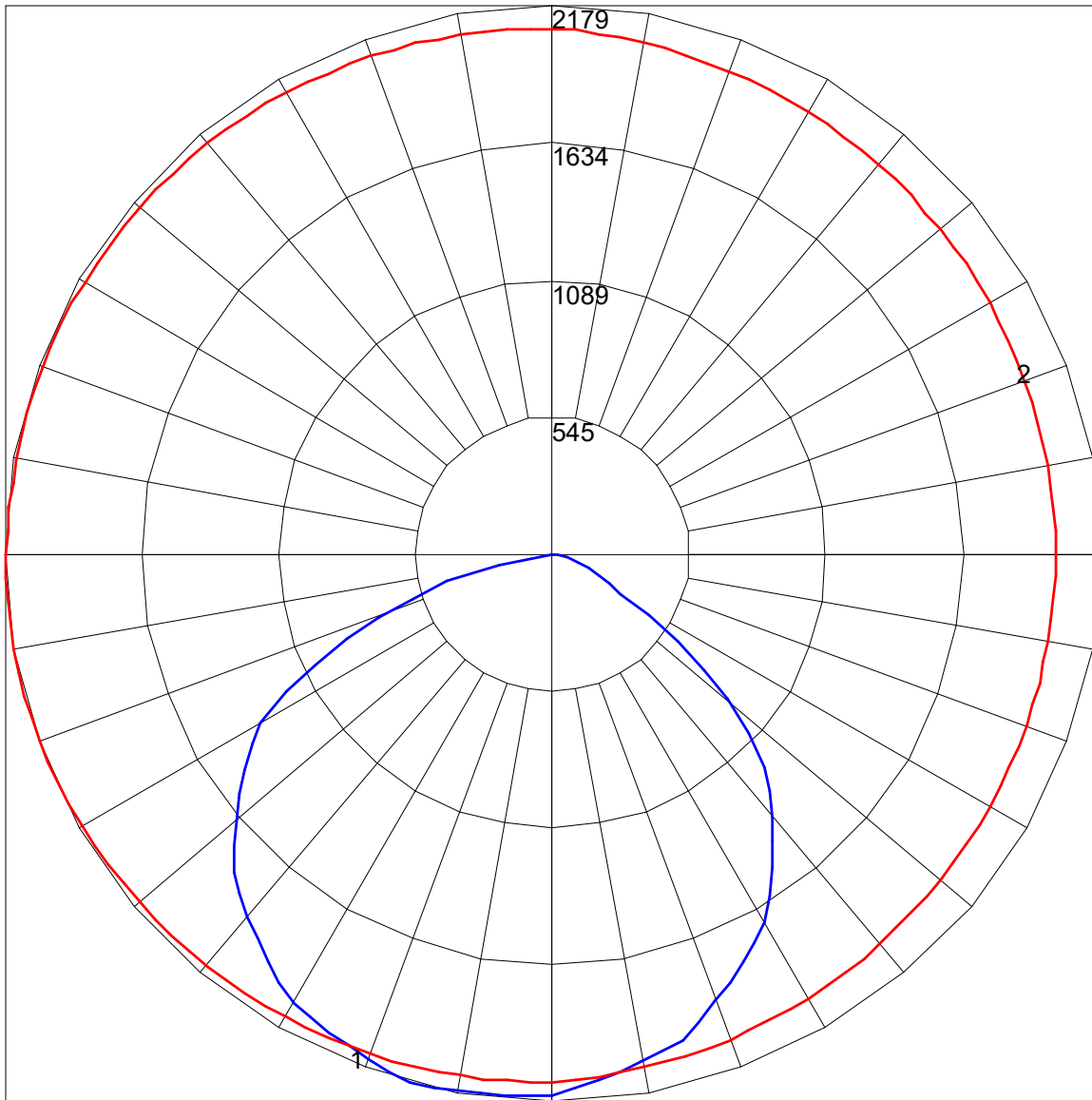
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : HZCAS6004HTVLOWT50120-277V.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	69	64	71	67	63	61
4	83	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	42	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	53	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

POLAR GRAPH



Maximum Candela = 2178.64 Located At Horizontal Angle = 187.5, Vertical Angle = 15  
# 1 - Vertical Plane Through Horizontal Angles (187.5 - 7.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)