

IES ROAD REPORT

PHOTOMETRIC FILENAME : HZX-EX-R4 50W 4000K.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] 1

[TESTLAB]

[TESTDATE] 25 March 2021

[ISSUEDATE] 2021-03-26 08:18:33

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER]

[MANUFAC] BELUCE

[LUMINAIRE] HZX-EX-R4 50W 4000K

[LAMP] LED

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

CHARACTERISTICS

IES Classification	N.A.
Longitudinal Classification	N.A.
Lumens Per Lamp	8898.3 (1 lamp)
Total Lamp Lumens	8898.3
Luminaire Lumens	7348
Downward Total Efficiency	83 %
Total Luminaire Efficiency	83 %
Luminaire Efficacy Rating (LER)	147
Total Luminaire Watts	49.9
Ballast Factor	1.00
Maximum Candela	2380.59
Maximum Candela Angle	205H 32.5V
Maximum Candela (<90 Degrees Vertical)	2384.67
Maximum Candela Angle (<90 Degrees Vertical)	13H -30V
Maximum Candela At 90 Degrees Vertical	15.36 (0.2% Lamp Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	643.91 (7.2% Lamp Lumens)
Cutoff Classification (deprecated)	Cutoff

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0.0	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2111.98	2110.62	2109.31	2108.04	2106.81	2105.63	2104.50	2103.42	2102.38	2100.84
5.0	2089.97	2087.76	2085.63	2083.59	2081.62	2079.70	2077.82	2076.01	2074.25	2071.57
7.5	2067.96	2065.40	2062.96	2060.44	2058.62	2056.70	2054.36	2052.45	2049.97	2047.53
10.0	2045.95	2043.55	2041.30	2039.70	2038.42	2036.75	2034.37	2031.97	2029.85	2027.70
12.5	2023.94	2022.20	2020.85	2020.90	2020.50	2018.87	2017.30	2015.76	2015.05	2015.20
15.0	2001.93	2001.34	2002.05	2004.35	2004.18	2003.92	2003.59	2004.87	2006.88	2010.77
17.5	2012.75	2010.31	2009.29	2008.33	2006.05	2003.40	2002.42	2003.42	2007.54	2009.81
20.0	2023.57	2019.02	2015.90	2012.24	2007.65	2003.29	2001.10	2002.29	2002.36	2001.70
22.5	2034.39	2026.98	2020.79	2015.10	2007.31	2001.02	1997.82	1994.95	1990.07	1986.06
25.0	2045.21	2035.20	2025.68	2016.49	2005.36	1996.48	1989.97	1981.26	1970.52	1963.15
27.5	2056.03	2042.60	2029.33	2016.21	2001.47	1989.38	1977.77	1959.10	1945.04	1932.82
30.0	2066.85	2049.46	2032.35	2014.61	1995.07	1978.76	1957.90	1933.26	1913.42	1895.81
32.5	2028.88	2013.27	1999.28	1981.71	1961.80	1943.43	1916.43	1892.30	1870.75	1851.19
35.0	1990.91	1977.15	1965.51	1945.40	1922.39	1898.68	1867.38	1840.48	1818.81	1797.95
37.5	1952.94	1941.52	1932.06	1908.52	1881.78	1850.79	1817.84	1791.31	1768.29	1746.89
40.0	1914.96	1906.34	1897.87	1871.12	1839.74	1802.60	1769.26	1741.46	1718.46	1699.84
42.5	1876.99	1871.59	1863.87	1833.20	1796.72	1755.27	1720.62	1693.23	1671.09	1657.31
45.0	1839.02	1837.25	1830.07	1794.62	1752.64	1707.58	1672.75	1646.00	1626.41	1621.71
47.5	1782.76	1780.90	1774.99	1745.84	1708.92	1669.65	1636.76	1611.43	1594.00	1586.92
50.0	1726.49	1724.13	1720.04	1698.45	1668.75	1639.25	1612.29	1594.34	1582.58	1574.77
52.5	1670.22	1667.41	1666.04	1653.00	1630.86	1612.44	1590.93	1581.17	1573.29	1559.88
55.0	1613.95	1610.69	1613.06	1610.32	1598.40	1587.37	1573.29	1570.17	1563.13	1542.01
57.5	1557.68	1553.99	1561.26	1568.92	1567.66	1563.31	1559.05	1559.87	1552.57	1521.69
60.0	1501.42	1497.32	1510.74	1529.29	1539.41	1540.71	1547.75	1550.48	1538.92	1496.38
62.5	1374.33	1370.71	1382.73	1400.20	1415.92	1425.73	1448.49	1466.00	1466.51	1437.95
65.0	1247.24	1243.31	1250.91	1262.04	1274.63	1282.70	1302.37	1316.02	1312.25	1285.83
67.5	1120.16	1115.78	1118.40	1123.14	1132.81	1138.73	1155.09	1165.68	1160.53	1138.05
70.0	993.07	988.15	985.30	984.08	990.38	993.94	1006.37	1014.79	1010.67	994.02
72.5	865.98	860.43	851.71	844.69	847.43	848.02	856.35	863.79	862.40	852.17
75.0	738.89	732.66	717.71	704.99	704.03	702.60	706.10	712.70	715.83	713.43
77.5	369.45	367.58	363.76	363.50	371.47	381.26	395.77	414.94	435.54	455.40
80.0	0.00	1.37	5.34	11.79	20.88	32.43	46.66	63.82	83.40	104.89
82.5	0.00	0.00	0.00	0.00	0.00	0.00	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									
	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2100.39	2099.37	2098.40	2097.49	2096.63	2095.82	2095.06	2094.36	2093.72	2093.13
5.0	2070.70	2068.76	2066.88	2065.06	2063.31	2061.66	2060.20	2058.81	2057.49	2056.24
7.5	2045.24	2043.08	2040.96	2038.94	2037.80	2036.65	2035.50	2034.33	2033.08	2031.98
10.0	2026.26	2025.42	2024.44	2023.98	2023.28	2022.14	2019.83	2017.32	2014.77	2012.92
12.5	2015.89	2016.98	2017.10	2016.05	2014.85	2013.88	2012.57	2011.95	2010.91	2008.43
15.0	2013.47	2014.83	2015.84	2016.44	2018.03	2018.66	2016.23	2013.52	2012.07	2009.74
17.5	2012.63	2015.98	2022.24	2026.93	2026.70	2028.60	2029.33	2027.59	2024.19	2019.38
20.0	2002.37	2005.44	2007.16	2013.18	2020.53	2028.01	2034.63	2043.36	2039.57	2034.17
22.5	1984.23	1983.08	1986.08	1989.28	1992.10	1996.73	2003.65	2012.48	2021.72	2031.75
25.0	1957.30	1954.77	1953.12	1951.54	1952.80	1957.30	1965.90	1976.00	1986.52	1996.41
27.5	1923.61	1916.05	1909.16	1906.37	1909.75	1918.60	1930.24	1943.08	1956.52	1966.80

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CANDELA TABULATION - (Cont.)

30.0	1881.59	1867.88	1859.49	1861.17	1871.02	1885.49	1904.43	1923.15	1939.39	1949.92
32.5	1830.99	1814.62	1812.39	1822.57	1840.86	1867.65	1894.51	1916.01	1929.38	1935.77
35.0	1777.89	1769.79	1776.37	1794.56	1829.65	1865.99	1894.21	1911.10	1913.47	1914.48
37.5	1730.89	1734.93	1747.35	1775.65	1814.58	1853.18	1885.19	1891.27	1885.00	1865.87
40.0	1695.40	1701.15	1719.81	1751.22	1783.68	1811.57	1825.02	1830.84	1811.58	1779.90
42.5	1659.25	1666.98	1688.17	1713.68	1736.83	1751.29	1759.48	1741.65	1714.19	1684.83
45.0	1621.71	1629.31	1646.64	1663.34	1677.77	1686.97	1678.48	1657.93	1631.75	1615.67
47.5	1581.59	1586.23	1594.19	1604.47	1616.22	1617.11	1606.60	1585.44	1572.19	1569.01
50.0	1561.53	1552.39	1543.56	1544.95	1553.35	1554.08	1542.67	1530.39	1532.80	1533.46
52.5	1540.95	1520.69	1505.52	1500.41	1497.41	1496.81	1489.51	1494.75	1501.99	1518.20
55.0	1513.93	1481.83	1461.88	1449.55	1442.88	1429.96	1431.09	1451.65	1487.86	1514.94
57.5	1480.59	1436.92	1410.17	1392.78	1382.54	1367.25	1373.13	1396.97	1437.84	1448.68
60.0	1440.51	1391.95	1357.23	1336.18	1317.82	1301.99	1319.63	1340.10	1357.10	1332.66
62.5	1390.41	1340.64	1300.34	1276.90	1252.05	1238.71	1254.78	1272.98	1244.71	1205.20
65.0	1246.35	1216.45	1197.65	1191.16	1176.90	1183.03	1185.35	1177.96	1117.19	1067.35
67.5	1106.66	1084.51	1073.11	1064.41	1051.32	1077.38	1084.51	1053.93	989.10	944.96
70.0	971.89	956.63	948.93	940.47	934.48	948.87	954.97	909.81	861.44	829.50
72.5	839.83	831.65	825.73	818.00	818.04	825.37	819.67	778.83	749.55	728.19
75.0	710.43	709.47	702.83	697.42	699.93	701.61	688.81	662.80	648.23	628.32
77.5	480.08	508.48	530.47	557.61	577.27	573.44	565.75	553.37	547.59	532.43
80.0	129.18	156.50	183.18	212.37	244.33	274.83	308.04	343.58	382.21	414.38
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.34	51.72	90.51
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	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2091.32	2091.88	2091.67	2091.25	2090.90	2090.63	2090.43	2090.30	2090.25	2090.28
5.0	2055.06	2053.48	2053.25	2052.71	2052.24	2051.83	2051.49	2051.23	2051.04	2050.94
7.5	2030.42	2028.48	2027.03	2024.82	2022.63	2020.46	2018.34	2015.08	2014.57	2013.31
10.0	2010.90	2008.17	2006.81	2004.89	2002.72	2000.56	1997.89	1994.42	1990.96	1987.57
12.5	2004.53	2000.30	1996.49	1992.63	1988.34	1983.69	1978.83	1973.78	1968.57	1962.38
15.0	2005.93	2001.49	1996.26	1990.50	1984.14	1978.46	1972.33	1965.96	1959.23	1952.05
17.5	2014.31	2008.87	2002.50	1995.28	1987.94	1981.73	1975.53	1970.11	1965.83	1961.63
20.0	2027.70	2020.65	2014.32	2009.01	2004.17	2000.07	1996.82	1994.52	1993.07	1992.18
22.5	2039.91	2031.44	2024.11	2018.10	2012.64	2008.44	2006.94	2007.37	2008.53	2008.88
25.0	2005.17	2010.60	2014.40	2009.43	2004.34	2000.90	1999.89	1999.67	1998.57	1997.04
27.5	1976.22	1981.05	1983.08	1984.81	1987.41	1986.83	1985.31	1980.88	1972.15	1960.39
30.0	1956.17	1960.12	1964.00	1970.70	1980.85	1992.34	1984.39	1973.82	1957.38	1934.87
32.5	1938.17	1942.22	1947.94	1951.68	1967.01	1986.78	2011.42	1984.60	1953.37	1920.47
35.0	1911.81	1903.24	1904.90	1911.02	1923.03	1939.67	1955.68	1967.73	1915.75	1867.71
37.5	1846.39	1835.28	1830.28	1839.83	1845.89	1848.08	1844.31	1837.24	1822.31	1775.35
40.0	1755.05	1746.69	1747.04	1749.04	1744.09	1735.38	1725.54	1721.81	1723.53	1706.03
42.5	1664.38	1660.42	1662.21	1657.00	1647.95	1644.18	1640.81	1630.76	1620.86	1613.57
45.0	1608.51	1598.99	1585.10	1579.37	1576.75	1566.59	1554.84	1543.29	1523.84	1503.00
47.5	1564.41	1556.18	1541.16	1521.68	1506.85	1498.78	1474.12	1451.44	1424.68	1398.48
50.0	1536.61	1528.87	1505.01	1476.57	1453.16	1430.29	1400.93	1384.18	1347.66	1303.86
52.5	1520.51	1494.24	1460.19	1422.09	1389.80	1378.65	1350.41	1312.75	1279.22	1251.41
55.0	1489.63	1448.47	1398.09	1351.94	1327.98	1301.07	1287.79	1269.47	1242.04	1213.65
57.5	1439.10	1384.95	1322.89	1279.80	1242.36	1224.96	1214.06	1208.22	1177.45	1137.39
60.0	1305.78	1272.51	1241.69	1194.80	1164.92	1138.26	1122.31	1107.56	1067.63	1006.74
62.5	1167.57	1138.51	1119.18	1104.72	1070.46	1046.60	1043.13	1009.96	961.63	904.78
65.0	1036.62	1014.25	1001.47	979.75	968.67	992.10	983.51	958.62	891.17	834.44

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CANDELA TABULATION - (Cont.)

67.5	922.42	903.74	884.99	874.66	881.92	899.53	954.38	892.28	820.99	779.05
70.0	806.11	796.26	784.74	783.08	773.51	793.08	794.49	788.26	774.35	758.73
72.5	708.59	693.83	692.75	675.43	652.07	648.60	642.99	666.62	711.59	692.91
75.0	613.25	603.01	599.13	567.74	538.30	503.96	530.42	566.22	573.50	526.46
77.5	519.56	511.15	500.12	474.76	447.10	426.07	437.50	435.65	407.72	418.97
80.0	429.62	420.76	407.20	390.69	369.56	360.84	357.38	332.20	306.93	314.88
82.5	131.56	171.74	211.44	249.42	288.02	282.38	271.22	245.91	232.82	221.83
85.0	0.00	0.00	0.00	0.00	0.00	38.00	77.73	111.31	139.99	147.98
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>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2090.39	2090.58	2090.86	2091.21	2091.65	2092.17	2092.79	2091.60	2090.50	2089.49
5.0	2050.94	2051.03	2050.24	2050.96	2051.68	2052.40	2053.12	2051.54	2049.97	2048.40
7.5	2012.13	2011.06	2010.10	2009.27	2008.60	2008.10	2007.80	2007.22	2006.83	2006.60
10.0	1984.26	1981.09	1978.08	1973.79	1972.03	1970.26	1968.49	1969.53	1970.57	1971.61
12.5	1958.01	1952.92	1947.90	1943.00	1938.25	1933.70	1929.40	1933.23	1937.29	1941.53
15.0	1944.78	1937.48	1930.21	1923.03	1915.38	1909.02	1902.65	1909.22	1915.78	1923.44
17.5	1957.44	1953.47	1949.77	1945.88	1941.65	1936.98	1931.72	1939.40	1946.41	1952.79
20.0	1990.93	1990.17	1989.68	1989.28	1990.04	1988.23	1986.41	1993.42	2000.41	2004.21
22.5	2010.22	2012.62	2014.13	2015.81	2017.70	2019.71	2021.74	2027.61	2033.42	2039.16
25.0	1994.77	1990.81	1986.57	1982.40	1978.67	1975.03	1974.09	1981.74	1992.44	2003.68
27.5	1944.80	1927.07	1908.31	1889.99	1871.70	1854.39	1839.02	1854.79	1873.11	1893.62
30.0	1908.82	1880.00	1850.27	1820.38	1790.89	1761.37	1735.34	1754.82	1778.36	1802.67
32.5	1884.35	1848.57	1813.92	1781.78	1750.79	1721.90	1694.58	1711.73	1730.43	1751.16
35.0	1822.42	1782.89	1748.74	1718.97	1692.92	1668.99	1649.02	1660.70	1675.96	1692.84
37.5	1735.61	1708.37	1684.25	1662.46	1643.09	1626.25	1611.23	1613.69	1618.45	1626.68
40.0	1670.45	1639.46	1617.10	1600.60	1587.81	1577.22	1569.92	1562.17	1557.89	1556.09
42.5	1585.75	1558.20	1535.73	1518.76	1506.04	1497.88	1493.87	1481.72	1473.42	1469.13
45.0	1479.65	1451.91	1432.86	1422.95	1419.61	1420.15	1426.95	1403.87	1386.76	1373.74
47.5	1370.61	1352.78	1341.91	1342.29	1360.12	1382.39	1406.09	1372.66	1339.15	1307.54
50.0	1275.45	1256.60	1275.71	1307.89	1340.19	1372.50	1406.92	1374.57	1344.19	1313.62
52.5	1238.58	1221.51	1230.78	1241.66	1244.74	1246.10	1253.63	1227.77	1213.17	1207.39
55.0	1192.17	1176.96	1162.45	1136.99	1116.17	1102.56	1108.33	1080.95	1067.28	1053.42
57.5	1092.22	1048.68	1021.86	1001.86	982.45	967.53	960.26	956.34	957.85	962.03
60.0	965.67	940.95	926.83	909.79	886.55	862.31	848.47	852.84	869.24	886.83
62.5	871.63	861.90	860.21	852.13	824.57	805.10	790.87	805.94	817.92	825.55
65.0	802.85	792.57	793.70	797.72	751.61	710.12	679.69	696.70	731.76	778.98
67.5	763.53	750.80	715.02	665.61	629.00	609.78	601.89	590.08	592.39	616.02
70.0	721.33	664.05	596.93	550.24	526.57	517.37	520.22	509.87	503.93	516.75
72.5	599.76	543.99	488.98	487.75	483.53	450.69	421.54	415.95	416.62	425.10
75.0	533.39	463.63	455.36	425.85	385.49	362.76	364.92	348.08	338.18	356.63
77.5	400.07	366.01	352.59	345.84	310.63	284.70	269.63	258.32	261.41	277.93
80.0	288.15	267.93	237.67	229.72	208.37	194.46	190.08	183.05	192.16	198.12
82.5	214.04	201.35	173.38	151.76	129.52	110.54	98.64	97.59	113.65	123.23
85.0	139.60	129.67	118.16	98.19	84.84	66.29	51.50	38.06	34.51	54.94
87.5	0.00	23.92	51.84	52.46	42.43	31.16	17.36	9.54	14.72	22.74
90.0	0.00	0.00	0.00	0.00	0.00	0.00	6.47	0.00	0.00	0.00

Vert. Angles	Horizontal Angles									
	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99

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CANDELA TABULATION - (Cont.)

2.5	2088.56	2087.72	2086.96	2086.29	2085.70	2085.19	2084.77	2084.42	2084.16	2083.97
5.0	2046.85	2046.71	2045.74	2044.85	2044.03	2043.29	2042.61	2041.99	2041.42	2040.91
7.5	2006.52	2006.55	2006.67	2006.86	2007.11	2006.67	2008.60	2009.47	2010.32	2011.12
10.0	1974.98	1977.09	1979.28	1981.51	1983.71	1985.85	1987.89	1989.41	1990.67	1991.79
12.5	1945.90	1950.34	1954.79	1958.57	1963.87	1968.21	1972.30	1976.09	1979.56	1982.56
15.0	1930.56	1937.61	1944.48	1951.08	1957.32	1963.22	1968.82	1974.03	1978.76	1983.78
17.5	1958.60	1963.86	1968.94	1973.68	1977.84	1981.43	1985.25	1988.89	1991.64	1996.02
20.0	2008.91	2013.12	2016.91	2020.36	2023.19	2025.92	2028.68	2031.08	2033.24	2034.84
22.5	2044.83	2050.48	2053.75	2057.53	2061.36	2063.72	2066.43	2068.17	2070.06	2072.25
25.0	2016.13	2029.63	2044.05	2056.45	2068.04	2079.68	2085.30	2090.82	2095.03	2099.34
27.5	1915.96	1940.24	1965.53	1991.23	2016.03	2040.01	2061.75	2081.83	2097.76	2099.05
30.0	1828.64	1856.12	1885.06	1914.65	1943.94	1976.25	2006.54	2038.41	2047.97	2053.70
32.5	1773.01	1799.74	1828.64	1860.31	1892.70	1927.35	1962.04	1965.35	1977.28	1993.79
35.0	1712.63	1735.75	1762.98	1794.53	1830.14	1870.52	1866.89	1867.78	1878.17	1899.11
37.5	1639.52	1658.12	1683.44	1714.54	1751.42	1752.51	1747.10	1744.93	1749.65	1767.07
40.0	1558.44	1567.02	1584.22	1608.78	1629.55	1638.47	1642.87	1641.55	1634.06	1635.37
42.5	1470.15	1477.69	1490.43	1507.99	1524.18	1537.77	1547.74	1552.25	1552.24	1546.50
45.0	1366.91	1369.62	1381.50	1409.92	1441.74	1469.40	1484.69	1492.72	1491.80	1482.46
47.5	1282.92	1260.75	1277.34	1329.28	1374.16	1410.28	1437.04	1457.91	1460.49	1457.85
50.0	1282.88	1237.40	1242.19	1278.60	1320.51	1374.88	1410.98	1434.82	1452.82	1468.02
52.5	1210.64	1222.31	1242.30	1260.74	1289.10	1342.57	1394.14	1415.05	1422.19	1470.01
55.0	1044.17	1069.34	1129.14	1188.82	1229.94	1278.32	1322.46	1332.80	1339.13	1385.16
57.5	967.12	978.47	1008.69	1059.21	1133.06	1182.94	1199.90	1224.59	1240.46	1261.54
60.0	892.36	890.89	910.55	950.04	1010.06	1052.29	1092.88	1118.87	1139.92	1156.31
62.5	817.61	817.28	808.14	832.04	886.77	939.35	979.94	1014.18	1050.09	1066.79
65.0	763.32	740.32	769.54	752.93	774.83	843.40	890.48	924.93	946.92	985.60
67.5	629.24	628.40	642.21	680.58	691.37	735.28	810.88	831.71	867.85	887.40
70.0	547.86	554.54	573.28	629.38	628.21	635.50	687.71	723.42	775.95	807.78
72.5	460.62	487.88	501.21	544.60	604.56	589.04	599.94	632.17	654.87	744.27
75.0	347.45	375.00	399.35	447.02	481.12	531.49	546.97	565.26	562.55	643.12
77.5	291.48	308.77	320.21	340.02	390.47	430.20	490.09	485.76	508.48	549.20
80.0	201.65	234.04	265.09	279.79	302.12	340.48	380.30	403.40	436.85	476.04
82.5	135.11	160.78	184.15	228.11	228.52	265.56	288.85	313.42	342.12	324.54
85.0	76.56	99.07	128.61	155.90	153.07	122.04	85.82	41.68	0.00	0.00
87.5	34.31	17.41	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>125.0</u>	<u>127.5</u>	<u>130.0</u>	<u>132.5</u>	<u>135.0</u>	<u>137.5</u>	<u>140.0</u>	<u>142.5</u>	<u>145.0</u>	<u>147.5</u>
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2083.86	2083.57	2082.54	2083.89	2084.04	2084.27	2084.56	2084.94	2085.38	2085.90
5.0	2040.43	2039.70	2040.21	2040.36	2040.58	2040.87	2041.21	2041.63	2042.32	2043.15
7.5	2011.86	2011.95	2012.59	2012.72	2012.79	2012.79	2012.36	2011.75	2011.09	2010.39
10.0	1992.76	1993.21	1994.02	1994.25	1994.23	1994.37	1994.25	1993.78	1992.94	1991.85
12.5	1985.02	1986.96	1988.41	1989.24	1989.54	1989.49	1989.03	1987.45	1985.47	1982.81
15.0	1988.15	1991.79	1994.39	1996.18	1996.27	1995.30	1993.44	1990.58	1988.16	1985.35
17.5	2000.11	2003.69	2007.26	2010.21	2012.65	2013.34	2012.02	2007.93	2002.75	1994.63
20.0	2035.50	2035.58	2034.63	2034.38	2033.52	2034.25	2029.05	2024.73	2018.35	2011.44
22.5	2075.26	2077.66	2080.15	2066.21	2052.29	2039.38	2029.98	2024.38	2020.97	2017.98
25.0	2103.05	2089.70	2075.69	2064.39	2052.87	2041.61	2030.91	2021.77	2015.27	2013.78
27.5	2085.34	2072.72	2062.11	2053.89	2037.79	2028.03	2019.98	2013.19	2007.44	2004.06
30.0	2055.06	2048.17	2035.64	2023.33	2016.89	2011.49	1997.56	1991.86	1989.66	1989.54
32.5	2010.34	2016.95	2012.40	1999.09	1983.08	1974.90	1977.85	1965.39	1960.67	1964.24
35.0	1933.08	1962.95	1983.76	1985.42	1967.06	1944.02	1932.06	1938.71	1932.96	1926.50
37.5	1795.46	1853.31	1908.39	1945.95	1957.93	1936.85	1902.93	1887.67	1894.99	1884.47

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CANDELA TABULATION - (Cont.)

40.0	1651.34	1692.43	1763.41	1849.16	1906.04	1913.49	1885.23	1853.42	1842.78	1851.22
42.5	1536.49	1546.52	1598.28	1698.09	1790.04	1843.50	1850.28	1825.40	1803.34	1800.17
45.0	1471.07	1486.10	1529.14	1591.88	1675.74	1749.68	1789.68	1786.59	1765.81	1755.41
47.5	1464.20	1484.01	1506.11	1547.00	1601.16	1668.62	1716.62	1734.01	1723.41	1712.99
50.0	1471.19	1478.64	1504.77	1528.40	1575.89	1617.40	1661.31	1677.56	1673.88	1663.47
52.5	1494.55	1485.25	1494.01	1528.57	1556.26	1602.74	1631.81	1625.85	1617.08	1602.95
55.0	1481.82	1520.90	1498.49	1513.96	1544.05	1553.79	1555.05	1556.15	1548.48	1544.49
57.5	1355.89	1513.04	1533.83	1462.03	1465.99	1470.18	1485.59	1480.24	1482.76	1479.64
60.0	1197.78	1337.19	1436.09	1397.43	1370.87	1398.88	1405.68	1406.56	1408.66	1410.56
62.5	1092.65	1160.38	1280.59	1310.97	1278.37	1309.18	1332.42	1337.17	1333.29	1342.68
65.0	1009.86	1047.60	1128.10	1195.71	1188.15	1208.19	1256.64	1266.23	1264.46	1283.01
67.5	930.23	965.33	1022.18	1079.98	1077.07	1109.39	1177.98	1207.60	1217.09	1231.47
70.0	841.31	891.54	940.90	995.98	1023.55	1045.97	1103.59	1148.02	1162.48	1185.11
72.5	752.37	806.26	849.36	919.36	980.33	992.37	1031.44	1084.14	1103.95	1142.47
75.0	684.06	721.05	778.00	838.11	929.50	943.11	970.05	1022.21	1048.43	1095.45
77.5	614.59	643.15	700.97	755.41	861.42	902.14	916.91	957.46	992.22	990.42
80.0	533.48	578.28	621.68	638.18	643.91	610.64	531.03	474.34	422.53	375.07
82.5	286.67	245.89	190.13	139.18	85.61	22.03	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. 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	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2086.50	2087.17	2087.91	2088.11	2089.64	2090.63	2091.71	2092.86	2094.08	2095.38
5.0	2044.06	2045.06	2046.14	2046.33	2048.52	2049.84	2051.28	2052.82	2053.86	2056.73
7.5	2010.64	2010.99	2011.36	2012.01	2013.00	2014.07	2014.78	2016.57	2018.02	2019.46
10.0	1990.55	1988.53	1986.39	1984.92	1984.26	1983.58	1983.76	1983.99	1984.48	1984.11
12.5	1979.49	1975.98	1972.38	1968.24	1963.65	1960.05	1957.43	1955.46	1953.97	1952.96
15.0	1980.44	1974.58	1966.87	1959.30	1952.03	1944.17	1936.74	1931.31	1926.79	1923.09
17.5	1988.88	1985.72	1981.04	1975.71	1970.78	1966.88	1963.91	1961.76	1960.74	1960.37
20.0	2004.70	1999.38	1999.00	1999.14	1998.23	1996.01	1996.61	1997.62	1998.86	2000.07
22.5	2013.25	2008.94	2006.80	2009.85	2015.54	2019.59	2022.63	2028.65	2034.47	2038.48
25.0	2013.27	2011.15	2010.30	2012.65	2021.93	2034.53	2043.43	2054.23	2066.63	2075.34
27.5	2004.63	2007.05	2007.95	2011.69	2020.38	2038.76	2059.40	2074.53	2094.16	2110.27
30.0	1990.92	1995.52	2001.55	2005.54	2016.75	2036.47	2065.78	2090.73	2117.19	2143.44
32.5	1970.98	1978.61	1988.56	1996.26	2002.05	2014.97	2037.04	2060.66	2079.95	2103.28
35.0	1931.44	1942.24	1958.29	1975.54	1980.47	1984.38	1998.77	2018.49	2033.80	2055.14
37.5	1880.15	1890.64	1911.63	1946.28	1965.62	1962.29	1966.53	1978.83	1990.17	2008.26
40.0	1835.71	1835.43	1859.54	1903.13	1943.91	1945.00	1940.78	1943.77	1950.08	1962.59
42.5	1803.10	1787.52	1800.07	1845.43	1911.44	1933.37	1919.02	1914.07	1912.05	1918.29
45.0	1759.83	1747.54	1744.32	1784.84	1864.49	1918.05	1902.91	1888.63	1876.18	1875.93
47.5	1713.45	1717.43	1697.33	1721.00	1797.92	1874.95	1866.29	1847.19	1833.10	1832.88
50.0	1662.56	1666.69	1654.29	1660.87	1721.91	1798.43	1812.33	1796.98	1786.45	1789.12
52.5	1598.76	1606.24	1609.50	1612.68	1658.30	1723.67	1754.60	1745.16	1738.06	1744.32
55.0	1534.33	1542.36	1556.66	1563.28	1601.44	1655.00	1690.31	1691.30	1689.35	1699.94
57.5	1471.89	1474.13	1497.24	1511.82	1547.24	1593.29	1623.74	1634.73	1639.67	1654.09
60.0	1413.72	1410.26	1434.24	1457.90	1496.02	1539.17	1556.78	1575.71	1588.96	1607.33
62.5	1350.87	1346.11	1370.73	1402.98	1442.35	1486.74	1502.30	1519.38	1529.80	1544.01
65.0	1299.87	1312.90	1331.83	1359.04	1387.08	1432.11	1452.00	1465.67	1469.53	1479.81
67.5	1260.83	1285.46	1298.35	1319.43	1337.17	1375.73	1401.44	1412.82	1409.96	1415.33
70.0	1218.56	1255.93	1268.43	1282.98	1291.12	1317.97	1350.45	1360.73	1351.04	1353.45
72.5	1172.59	1221.99	1238.49	1248.15	1248.27	1261.25	1298.87	1309.07	1292.68	1291.57
75.0	1123.02	1184.51	1209.94	1215.64	1206.91	1205.54	1247.30	1258.64	1234.76	1230.04

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CANDELA TABULATION - (Cont.)

77.5	945.21	933.52	896.04	840.08	781.33	734.00	723.14	699.58	661.07	639.13
80.0	325.62	286.17	241.57	193.77	149.75	112.88	85.20	59.54	37.19	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	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									
	175.0	177.5	180.0	182.5	185.0	187.5	190.0	192.5	195.0	197.5
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2096.75	2098.20	2099.71	2101.70	2103.75	2105.86	2108.01	2110.21	2112.45	2114.72
5.0	2059.62	2062.52	2065.42	2069.86	2074.29	2078.70	2083.08	2087.29	2094.92	2100.64
7.5	2023.36	2027.15	2031.14	2038.65	2046.34	2054.16	2063.68	2073.36	2083.05	2092.78
10.0	1986.70	1991.77	1996.85	2007.76	2018.66	2031.60	2047.11	2061.64	2076.20	2090.64
12.5	1952.28	1956.82	1962.57	1977.61	1990.69	2013.68	2033.85	2054.06	2077.99	2107.21
15.0	1919.19	1921.75	1928.28	1947.63	1969.95	1997.16	2023.85	2054.90	2094.43	2138.01
17.5	1959.99	1961.96	1968.71	1986.29	2007.94	2031.87	2056.29	2093.77	2136.41	2181.04
20.0	2002.19	2003.00	2009.13	2024.06	2044.18	2064.97	2092.45	2128.12	2165.58	2207.89
22.5	2041.38	2043.53	2049.56	2060.04	2075.61	2093.81	2119.31	2151.59	2185.44	2212.18
25.0	2082.53	2085.58	2089.98	2094.99	2105.97	2119.06	2137.87	2162.23	2188.30	2211.30
27.5	2120.03	2126.59	2130.41	2129.18	2132.14	2138.67	2147.21	2162.53	2184.96	2214.62
30.0	2159.56	2168.05	2170.84	2161.94	2157.40	2151.70	2146.47	2155.82	2185.67	2227.33
32.5	2116.51	2126.47	2132.23	2125.93	2123.44	2119.46	2117.03	2130.86	2169.54	2225.46
35.0	2071.44	2083.81	2093.61	2089.46	2087.97	2083.30	2081.91	2098.01	2137.40	2193.67
37.5	2026.01	2041.73	2055.00	2053.97	2052.40	2047.29	2045.71	2063.37	2096.19	2149.72
40.0	1980.43	1998.54	2016.38	2017.95	2016.31	2011.31	2009.81	2022.39	2052.15	2091.77
42.5	1934.92	1956.01	1977.76	1982.92	1980.63	1975.68	1970.57	1977.48	1995.18	2019.20
45.0	1889.50	1912.36	1939.14	1947.32	1945.19	1938.99	1928.93	1926.94	1930.95	1936.29
47.5	1847.62	1872.27	1898.01	1907.73	1907.28	1901.08	1890.46	1884.95	1878.98	1868.41
50.0	1805.79	1830.32	1856.87	1867.37	1869.53	1863.38	1853.56	1846.46	1838.33	1825.48
52.5	1763.38	1791.51	1815.74	1827.98	1832.05	1826.02	1816.77	1807.48	1797.49	1783.31
55.0	1721.88	1751.12	1774.60	1787.58	1794.61	1789.10	1780.58	1768.32	1755.84	1741.82
57.5	1679.72	1711.28	1733.46	1748.46	1756.66	1752.74	1744.38	1728.56	1714.16	1700.76
60.0	1635.83	1670.70	1692.33	1708.56	1717.71	1716.87	1707.92	1688.09	1672.91	1660.79
62.5	1572.85	1606.67	1620.82	1628.30	1633.04	1628.71	1620.33	1604.41	1594.22	1588.79
65.0	1505.48	1541.68	1549.30	1546.27	1541.54	1534.94	1523.81	1506.66	1495.43	1488.36
67.5	1442.49	1477.91	1477.79	1465.34	1455.44	1440.50	1425.67	1409.39	1396.19	1387.22
70.0	1375.73	1413.30	1406.27	1382.91	1363.49	1345.94	1328.37	1312.05	1297.41	1285.84
72.5	1312.68	1349.72	1334.76	1301.43	1276.17	1250.28	1231.30	1214.67	1197.40	1184.11
75.0	1246.59	1285.47	1263.24	1218.77	1184.16	1155.03	1134.44	1117.97	1098.06	1082.11
77.5	634.40	645.57	631.62	612.05	602.53	598.76	604.57	616.41	630.59	650.85
80.0	0.00	0.00	0.00	0.00	0.00	0.00	33.97	52.41	74.31	99.95
82.5	0.00	0.00	0.00	0.00	0.00	0.00	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									
	200.0	202.5	205.0	207.5	210.0	212.5	215.0	217.5	220.0	222.5
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2117.02	2119.34	2120.67	2124.31	2126.83	2129.35	2131.84	2134.31	2136.76	2139.16
5.0	2106.35	2112.03	2117.71	2123.36	2128.94	2134.42	2139.80	2144.12	2152.04	2158.40
7.5	2102.46	2112.04	2123.45	2136.21	2148.59	2159.71	2172.95	2184.67	2195.73	2203.80
10.0	2111.05	2131.10	2151.79	2172.79	2192.87	2209.98	2226.07	2238.33	2247.08	2253.96

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CANDELA TABULATION - (Cont.)

12.5	2137.78	2169.56	2198.29	2223.99	2242.75	2253.78	2261.29	2261.48	2261.82	2258.61
15.0	2176.51	2218.12	2244.36	2259.51	2262.37	2261.74	2255.25	2250.18	2238.03	2230.09
17.5	2222.38	2245.53	2257.82	2259.14	2251.06	2237.77	2221.17	2197.59	2174.98	2153.55
20.0	2231.68	2243.94	2247.16	2244.64	2232.39	2209.48	2178.24	2141.29	2104.79	2074.01
22.5	2229.85	2239.84	2244.05	2241.72	2227.92	2199.68	2166.71	2134.62	2105.91	2080.64
25.0	2231.14	2247.36	2259.59	2258.05	2239.60	2208.89	2174.93	2140.97	2108.58	2080.62
27.5	2240.74	2275.96	2294.77	2288.37	2258.90	2218.21	2176.38	2135.74	2099.00	2067.27
30.0	2278.26	2325.83	2340.83	2315.83	2267.93	2216.00	2163.55	2115.77	2078.47	2047.55
32.5	2300.07	2363.19	2380.59	2326.66	2263.76	2197.08	2136.19	2094.84	2057.02	2028.39
35.0	2256.85	2288.14	2275.55	2239.51	2195.23	2147.89	2112.33	2071.60	2041.79	2020.82
37.5	2194.73	2194.73	2168.90	2134.48	2092.27	2063.56	2040.67	2029.02	2027.15	2014.04
40.0	2110.48	2097.09	2073.29	2039.63	2010.38	1991.17	1978.80	1975.33	1971.41	1965.29
42.5	2019.86	2004.49	1985.59	1960.88	1943.65	1931.17	1925.26	1920.55	1913.62	1900.16
45.0	1929.39	1922.57	1909.28	1895.99	1885.95	1877.84	1872.31	1864.91	1854.07	1831.63
47.5	1855.97	1850.92	1844.74	1839.42	1833.16	1826.20	1818.61	1809.12	1791.05	1766.25
50.0	1814.56	1808.87	1801.12	1794.81	1784.01	1774.17	1766.82	1752.76	1731.01	1707.29
52.5	1775.04	1768.15	1761.47	1751.59	1736.93	1723.42	1712.80	1694.20	1676.77	1640.14
55.0	1734.75	1728.80	1721.68	1705.78	1687.87	1670.48	1649.79	1627.07	1606.50	1569.58
57.5	1694.54	1690.87	1681.28	1658.05	1636.51	1613.47	1584.18	1562.97	1532.21	1504.56
60.0	1655.50	1652.69	1637.29	1609.78	1583.30	1550.95	1519.21	1498.22	1474.03	1447.90
62.5	1592.31	1598.12	1588.87	1560.45	1527.39	1486.48	1456.75	1436.65	1420.27	1416.12
65.0	1489.96	1489.57	1475.75	1457.64	1433.92	1402.83	1390.46	1385.49	1381.73	1410.43
67.5	1385.97	1380.55	1364.52	1344.97	1318.97	1292.67	1280.35	1283.23	1315.57	1396.45
70.0	1280.85	1272.11	1255.08	1235.32	1206.16	1183.27	1169.22	1168.12	1207.55	1262.91
72.5	1174.93	1162.11	1146.36	1125.29	1096.56	1073.45	1056.78	1054.33	1089.42	1117.01
75.0	1067.17	1054.07	1039.45	1016.07	990.33	963.45	941.58	935.88	961.39	971.39
77.5	673.42	702.97	733.11	761.33	791.22	815.62	825.17	817.03	824.55	831.99
80.0	128.79	161.72	197.07	233.90	272.50	309.81	350.69	400.38	458.55	521.78
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.70
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	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2141.53	2143.86	2146.13	2148.36	2149.65	2152.67	2154.74	2156.74	2158.67	2160.53
5.0	2164.50	2170.31	2175.83	2181.05	2183.27	2190.62	2194.88	2198.79	2202.35	2205.58
7.5	2214.69	2222.87	2230.40	2237.27	2241.69	2245.06	2248.12	2250.89	2253.35	2255.52
10.0	2259.32	2260.11	2260.85	2261.65	2261.37	2260.83	2260.57	2260.59	2260.91	2259.73
12.5	2255.92	2252.05	2247.15	2243.12	2238.51	2234.41	2231.62	2231.22	2230.03	2231.18
15.0	2214.24	2202.82	2192.63	2184.87	2179.63	2176.33	2174.74	2177.09	2180.77	2185.30
17.5	2137.14	2125.06	2119.95	2119.04	2120.51	2123.68	2128.82	2132.45	2138.05	2144.82
20.0	2067.48	2067.31	2068.11	2069.85	2074.26	2080.73	2086.91	2092.90	2100.10	2105.15
22.5	2056.52	2037.14	2023.92	2028.78	2033.00	2037.12	2039.25	2040.61	2041.25	2043.72
25.0	2056.39	2035.07	2017.04	1998.42	1981.19	1981.86	1983.34	1984.68	1984.39	1983.70
27.5	2043.07	2017.73	1996.37	1979.16	1964.18	1949.69	1940.46	1938.02	1935.23	1931.07
30.0	2020.44	1999.96	1982.84	1966.32	1950.49	1937.19	1926.25	1918.48	1915.43	1909.98
32.5	2008.45	1990.06	1972.04	1955.69	1941.14	1929.64	1922.02	1914.81	1909.97	1895.39
35.0	2000.57	1980.60	1961.19	1941.99	1926.06	1907.98	1897.91	1886.88	1872.60	1854.91
37.5	1989.27	1961.94	1935.66	1906.76	1886.48	1866.23	1840.84	1822.28	1801.90	1779.23
40.0	1953.06	1925.52	1887.62	1857.90	1826.48	1798.61	1771.26	1740.45	1718.05	1710.43
42.5	1877.69	1852.38	1827.10	1792.73	1760.12	1721.29	1684.07	1667.29	1675.37	1718.26
45.0	1806.28	1779.58	1746.02	1720.44	1675.12	1635.05	1619.16	1637.22	1681.69	1739.87
47.5	1739.93	1701.45	1670.43	1621.42	1584.36	1559.25	1554.00	1588.67	1642.41	1651.09

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CANDELA TABULATION - (Cont.)

50.0	1665.88	1631.56	1579.82	1537.59	1508.67	1484.89	1508.21	1573.76	1570.63	1531.27
52.5	1601.33	1549.85	1498.94	1464.76	1442.10	1464.38	1510.00	1495.83	1437.24	1380.75
55.0	1529.59	1470.83	1428.07	1401.78	1408.98	1438.43	1414.41	1358.13	1323.79	1315.88
57.5	1462.59	1417.16	1368.58	1351.29	1369.21	1351.55	1308.32	1290.33	1273.81	1256.25
60.0	1425.98	1391.85	1345.93	1319.89	1300.48	1276.41	1261.27	1236.60	1205.69	1185.59
62.5	1419.77	1367.08	1320.90	1294.26	1256.40	1236.56	1207.03	1169.97	1140.96	1114.07
65.0	1404.83	1340.70	1297.16	1248.33	1219.59	1183.95	1142.61	1108.25	1075.61	1038.53
67.5	1377.21	1313.16	1262.10	1214.63	1168.21	1118.97	1106.25	1063.55	1015.21	965.65
70.0	1241.55	1220.01	1202.13	1169.35	1110.47	1088.28	1077.24	996.23	943.68	888.64
72.5	1097.64	1076.02	1060.16	1039.25	1028.81	1088.12	1006.55	927.83	863.78	819.80
75.0	960.92	933.93	911.02	892.70	900.95	945.55	885.22	859.55	794.60	742.09
77.5	815.79	792.60	764.12	748.55	770.55	760.16	729.10	702.06	691.13	609.92
80.0	571.24	613.58	623.14	614.78	615.08	589.35	579.83	549.66	535.08	460.94
82.5	77.48	133.85	190.26	253.08	308.73	364.22	417.26	407.71	379.08	345.26
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.90	109.41	160.98
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>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2162.31	2164.02	2165.66	2167.22	2168.70	2170.11	2171.43	2172.68	2173.85	2172.80
5.0	2208.47	2211.05	2213.32	2215.30	2217.00	2218.44	2219.65	2220.63	2221.42	2219.61
7.5	2256.62	2257.27	2257.65	2257.97	2258.24	2258.44	2258.57	2258.62	2258.58	2256.11
10.0	2259.39	2259.43	2259.80	2260.46	2261.37	2262.48	2263.74	2265.11	2266.54	2262.17
12.5	2233.49	2236.85	2241.55	2244.58	2249.18	2254.33	2259.93	2265.89	2272.10	2262.78
15.0	2191.56	2196.81	2203.44	2210.56	2218.15	2226.16	2234.57	2243.34	2252.43	2237.21
17.5	2152.64	2160.85	2169.44	2179.06	2187.07	2196.42	2206.25	2216.53	2227.27	2207.43
20.0	2111.54	2119.05	2123.27	2129.18	2135.93	2143.59	2152.23	2161.91	2172.70	2152.30
22.5	2047.48	2048.20	2050.95	2054.15	2057.71	2062.03	2067.41	2074.10	2082.31	2064.53
25.0	1980.07	1975.50	1973.70	1968.39	1965.79	1963.77	1962.72	1963.05	1965.18	1953.78
27.5	1925.78	1919.63	1913.69	1906.92	1900.79	1892.14	1885.03	1878.87	1874.20	1868.45
30.0	1901.77	1885.73	1867.78	1850.16	1832.87	1815.51	1798.63	1782.81	1768.64	1772.84
32.5	1874.65	1851.62	1825.70	1799.71	1775.89	1751.59	1728.16	1706.90	1688.61	1701.60
35.0	1825.66	1790.86	1750.05	1713.37	1675.65	1642.00	1610.67	1582.17	1556.99	1583.97
37.5	1756.83	1717.37	1678.60	1644.14	1608.47	1575.89	1545.98	1514.52	1482.37	1513.21
40.0	1718.72	1726.15	1717.65	1706.78	1692.91	1674.86	1650.27	1619.09	1581.33	1590.01
42.5	1786.22	1867.71	1862.75	1822.96	1774.20	1734.08	1682.67	1645.71	1615.99	1615.19
45.0	1779.22	1775.23	1731.31	1649.89	1589.42	1542.96	1499.82	1461.25	1429.73	1433.00
47.5	1618.45	1589.41	1563.15	1513.32	1463.11	1423.47	1390.70	1363.37	1340.48	1333.49
50.0	1481.42	1444.72	1429.77	1409.72	1366.46	1332.66	1305.40	1283.72	1266.65	1249.53
52.5	1364.14	1349.18	1329.79	1296.27	1261.98	1241.59	1228.93	1221.45	1219.79	1182.37
55.0	1293.66	1260.19	1224.30	1187.95	1133.15	1106.43	1090.93	1082.84	1083.66	1089.52
57.5	1221.60	1178.47	1120.49	1052.11	987.83	1013.10	1046.79	1086.24	1112.29	1064.73
60.0	1160.30	1097.69	1046.07	1051.07	1042.23	1021.96	1004.36	996.67	1006.94	972.63
62.5	1073.35	1033.40	990.26	936.54	900.22	870.98	861.37	853.70	855.55	833.36
65.0	990.75	941.51	897.28	842.62	807.93	784.23	758.09	732.29	714.05	743.79
67.5	909.34	859.55	799.60	748.55	717.36	693.87	667.27	652.15	648.59	638.73
70.0	847.80	779.45	719.62	672.28	645.93	600.79	548.43	531.66	532.29	522.08
72.5	763.39	726.73	695.69	628.52	577.46	514.80	483.36	465.99	445.02	438.79
75.0	651.66	660.78	592.76	540.68	500.22	465.11	424.35	387.16	352.85	351.36
77.5	531.41	489.51	468.73	456.34	405.38	405.02	359.71	339.06	302.60	283.26
80.0	400.53	356.99	329.09	323.67	273.80	265.40	272.07	273.61	250.67	234.86
82.5	309.19	259.00	229.95	202.50	176.56	140.08	134.58	145.00	172.81	184.70
85.0	203.35	196.89	169.12	143.80	128.33	107.44	85.65	62.71	111.60	107.58

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CANDELA TABULATION - (Cont.)

87.5	0.00	0.00	0.00	29.70	62.25	65.17	52.07	40.75	43.66	67.48
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.36	0.00

Vert. Angles **Horizontal Angles**

	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2171.68	2170.48	2169.21	2167.87	2166.46	2164.99	2163.46	2161.86	2160.22	2158.51
5.0	2217.63	2215.46	2213.10	2210.55	2207.82	2204.89	2201.77	2198.46	2194.96	2191.27
7.5	2253.55	2250.92	2248.22	2245.46	2242.66	2239.82	2236.69	2233.40	2229.29	2225.02
10.0	2257.85	2253.62	2249.52	2245.60	2241.90	2238.45	2235.29	2232.46	2230.31	2226.94
12.5	2253.73	2245.06	2236.89	2229.35	2223.49	2215.73	2209.12	2203.47	2198.90	2196.38
15.0	2222.44	2208.27	2194.84	2182.31	2170.81	2160.49	2153.03	2143.79	2137.76	2133.49
17.5	2188.09	2169.32	2151.16	2134.66	2116.97	2101.27	2086.67	2073.26	2061.73	2052.25
20.0	2132.90	2114.33	2096.42	2079.00	2061.91	2045.62	2028.14	2011.98	1997.38	1982.05
22.5	2048.25	2033.18	2019.08	2005.64	1992.64	1980.03	1969.24	1954.10	1939.88	1924.40
25.0	1944.12	1935.77	1928.26	1921.16	1916.32	1907.72	1900.89	1892.51	1881.59	1869.78
27.5	1864.28	1861.21	1859.96	1856.14	1853.12	1849.47	1846.85	1841.68	1835.32	1826.26
30.0	1778.80	1786.05	1794.12	1802.55	1810.00	1812.88	1811.09	1810.13	1807.05	1800.67
32.5	1716.98	1733.36	1748.72	1760.42	1770.86	1780.69	1791.41	1801.55	1810.13	1794.72
35.0	1613.85	1645.67	1678.50	1713.22	1741.37	1767.54	1784.57	1792.16	1773.89	1764.66
37.5	1544.55	1576.72	1613.07	1653.07	1694.05	1733.26	1770.94	1763.11	1745.81	1729.63
40.0	1596.05	1603.28	1615.38	1636.58	1667.11	1704.15	1708.82	1690.06	1675.14	1664.95
42.5	1619.32	1632.08	1635.90	1645.61	1654.52	1655.41	1640.46	1623.58	1603.39	1583.77
45.0	1444.50	1463.69	1489.98	1522.98	1566.53	1577.14	1579.99	1567.79	1542.23	1522.52
47.5	1331.57	1336.16	1346.92	1368.36	1390.74	1405.12	1428.73	1457.95	1482.02	1478.70
50.0	1236.77	1229.12	1227.65	1243.52	1256.66	1267.44	1277.80	1303.64	1333.61	1375.16
52.5	1147.47	1114.77	1094.61	1104.37	1148.36	1158.01	1167.61	1181.99	1196.11	1237.29
55.0	1096.25	1094.73	1072.30	1041.55	1045.19	1063.54	1090.89	1108.93	1110.97	1141.21
57.5	1017.72	1003.46	1032.45	1054.77	1060.78	1053.54	1053.95	1054.80	1065.32	1084.56
60.0	951.28	930.18	918.88	942.82	973.83	999.64	1027.00	1010.94	1019.30	1035.39
62.5	826.17	817.67	819.70	830.70	895.06	936.18	916.56	916.79	935.28	978.14
65.0	768.54	765.45	712.42	712.06	755.97	779.77	799.32	812.08	812.63	862.43
67.5	639.43	659.01	673.60	654.23	627.63	647.01	655.58	673.67	712.01	735.48
70.0	515.17	527.09	543.73	562.26	562.89	545.95	578.11	560.79	595.10	642.14
72.5	442.42	470.12	493.05	473.09	486.27	484.98	468.03	500.24	499.33	547.90
75.0	357.30	360.48	371.76	386.44	394.11	417.65	408.08	405.44	437.37	463.95
77.5	274.39	284.55	301.22	299.15	296.86	318.40	334.24	336.28	351.79	379.94
80.0	220.77	211.59	220.16	234.07	242.57	230.47	248.04	276.27	289.01	315.98
82.5	177.54	157.32	156.30	164.27	179.62	175.65	186.00	207.88	226.60	258.07
85.0	119.93	117.32	110.85	115.83	123.88	124.88	114.63	92.40	66.94	36.07
87.5	66.67	69.40	62.68	24.29	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>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2156.76	2154.96	2152.33	2151.25	2149.36	2147.44	2145.49	2143.52	2141.53	2139.52
5.0	2187.40	2183.34	2177.06	2174.73	2170.26	2165.68	2160.99	2156.21	2151.34	2145.50
7.5	2220.62	2216.09	2211.43	2206.26	2199.88	2193.85	2186.36	2177.91	2171.54	2163.44
10.0	2224.10	2220.87	2218.24	2215.42	2211.69	2208.08	2204.38	2198.34	2191.43	2183.45
12.5	2193.03	2191.58	2191.23	2191.38	2191.14	2191.67	2191.33	2190.03	2189.22	2185.50
15.0	2131.01	2130.07	2131.08	2133.28	2136.35	2141.67	2146.81	2155.49	2158.12	2164.01
17.5	2046.64	2040.86	2040.23	2042.56	2048.28	2056.57	2067.19	2079.92	2094.96	2109.35
20.0	1968.73	1957.78	1949.76	1945.18	1944.63	1950.48	1961.39	1978.73	2014.91	2050.20

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

22.5	1906.72	1889.63	1875.98	1864.27	1855.62	1875.71	1903.62	1935.36	1973.46	2012.62
25.0	1857.53	1843.99	1826.85	1832.60	1841.79	1860.01	1883.35	1911.84	1945.19	1983.09
27.5	1814.64	1811.15	1818.02	1828.97	1841.87	1854.56	1870.20	1893.88	1925.64	1962.84
30.0	1801.49	1804.59	1807.03	1812.30	1822.79	1839.67	1860.18	1880.72	1907.57	1943.01
32.5	1785.70	1787.96	1794.89	1801.13	1806.28	1815.64	1834.08	1861.52	1889.53	1926.42
35.0	1764.38	1768.66	1765.04	1775.21	1792.42	1801.40	1809.25	1829.19	1862.75	1900.84
37.5	1715.01	1709.74	1720.22	1736.90	1749.76	1771.55	1794.44	1805.93	1819.76	1841.25
40.0	1657.70	1656.57	1655.28	1665.17	1691.76	1722.08	1744.05	1760.02	1757.94	1765.49
42.5	1573.62	1573.84	1578.93	1593.95	1611.13	1637.68	1664.96	1686.10	1703.12	1702.80
45.0	1502.91	1486.49	1487.53	1512.08	1548.20	1568.66	1583.52	1610.05	1634.90	1646.63
47.5	1452.49	1428.45	1425.08	1444.46	1478.69	1515.62	1532.00	1535.79	1563.57	1585.20
50.0	1398.89	1388.40	1374.43	1382.38	1411.60	1451.40	1488.55	1495.96	1489.97	1523.29
52.5	1281.91	1313.23	1318.64	1319.76	1342.43	1387.07	1433.51	1463.97	1452.93	1443.47
55.0	1170.66	1208.07	1235.08	1249.44	1270.76	1311.78	1368.32	1405.32	1410.10	1385.47
57.5	1107.51	1123.61	1150.15	1162.12	1186.96	1230.36	1282.32	1326.42	1351.37	1342.81
60.0	1060.14	1082.25	1080.45	1097.52	1106.32	1138.98	1199.32	1253.33	1285.19	1288.94
62.5	1011.68	1027.24	1020.43	1007.92	1038.47	1059.80	1110.43	1176.22	1217.06	1231.85
65.0	923.74	924.68	935.33	937.80	953.11	982.39	1019.76	1103.25	1153.46	1173.26
67.5	785.30	833.94	829.11	850.49	867.27	910.73	946.51	1005.13	1051.75	1057.30
70.0	685.46	719.02	735.53	753.73	783.41	816.37	843.90	872.02	922.82	929.50
72.5	588.38	627.04	644.97	655.53	686.48	709.85	740.73	758.86	798.52	803.19
75.0	503.24	546.89	571.31	578.19	598.46	612.91	643.15	661.19	677.00	679.63
77.5	430.46	464.46	498.99	504.44	514.31	523.52	545.06	563.88	563.70	562.28
80.0	359.91	391.06	418.25	438.38	435.97	415.14	381.53	352.07	311.01	274.10
82.5	280.35	261.01	219.37	186.09	134.18	91.76	51.44	12.59	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	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2137.50	2135.48	2133.44	2131.41	2128.48	2127.44	2125.61	2123.80	2122.02	2120.26
5.0	2142.06	2137.92	2133.76	2129.59	2125.43	2121.32	2117.30	2113.30	2109.34	2104.12
7.5	2155.11	2146.01	2138.74	2130.92	2123.04	2115.89	2109.65	2103.45	2097.34	2091.46
10.0	2174.62	2163.84	2152.75	2140.22	2127.40	2115.49	2104.76	2094.05	2085.80	2077.63
12.5	2182.00	2174.77	2165.92	2153.86	2138.98	2122.73	2105.09	2089.43	2075.78	2064.16
15.0	2164.35	2165.83	2162.52	2157.70	2147.10	2132.06	2110.52	2090.35	2068.84	2052.22
17.5	2124.01	2133.09	2142.46	2149.05	2148.14	2141.77	2129.95	2109.57	2087.11	2066.62
20.0	2082.06	2109.70	2131.17	2145.13	2149.14	2148.72	2142.22	2128.96	2105.02	2084.33
22.5	2050.44	2084.92	2116.87	2137.24	2148.79	2152.18	2148.95	2139.43	2122.58	2100.03
25.0	2025.77	2065.56	2100.69	2130.13	2149.40	2157.06	2155.22	2147.07	2133.39	2112.15
27.5	2004.56	2048.68	2091.00	2125.87	2151.83	2164.81	2164.39	2154.96	2140.96	2122.56
30.0	1987.06	2034.30	2082.41	2125.37	2157.04	2176.65	2177.33	2165.86	2148.38	2130.11
32.5	1965.14	2018.57	2072.82	2124.53	2165.86	2170.21	2161.32	2140.50	2113.75	2089.08
35.0	1944.87	1977.27	2014.43	2048.81	2075.20	2087.40	2087.47	2075.06	2053.31	2030.57
37.5	1865.57	1893.98	1918.15	1953.62	1985.89	2001.89	2009.31	2003.22	1988.65	1969.39
40.0	1788.62	1812.60	1836.68	1863.53	1897.02	1918.10	1927.58	1927.85	1919.27	1905.35
42.5	1715.76	1740.84	1763.87	1782.70	1811.33	1840.81	1846.37	1849.60	1846.58	1838.71
45.0	1650.82	1671.73	1695.75	1716.61	1731.49	1759.79	1767.49	1770.64	1770.09	1769.38
47.5	1595.18	1606.58	1630.64	1652.45	1660.99	1681.88	1700.41	1704.89	1712.68	1721.62
50.0	1536.52	1545.48	1563.04	1582.04	1592.78	1606.05	1639.06	1651.67	1667.73	1680.86
52.5	1475.80	1481.06	1488.72	1508.23	1525.30	1530.53	1567.64	1593.52	1621.45	1638.59
55.0	1405.25	1418.16	1420.85	1435.55	1457.97	1458.12	1492.97	1533.26	1571.71	1594.85
57.5	1332.90	1355.09	1361.99	1364.13	1384.90	1389.81	1416.27	1471.04	1518.46	1549.84

IES ROAD REPORT
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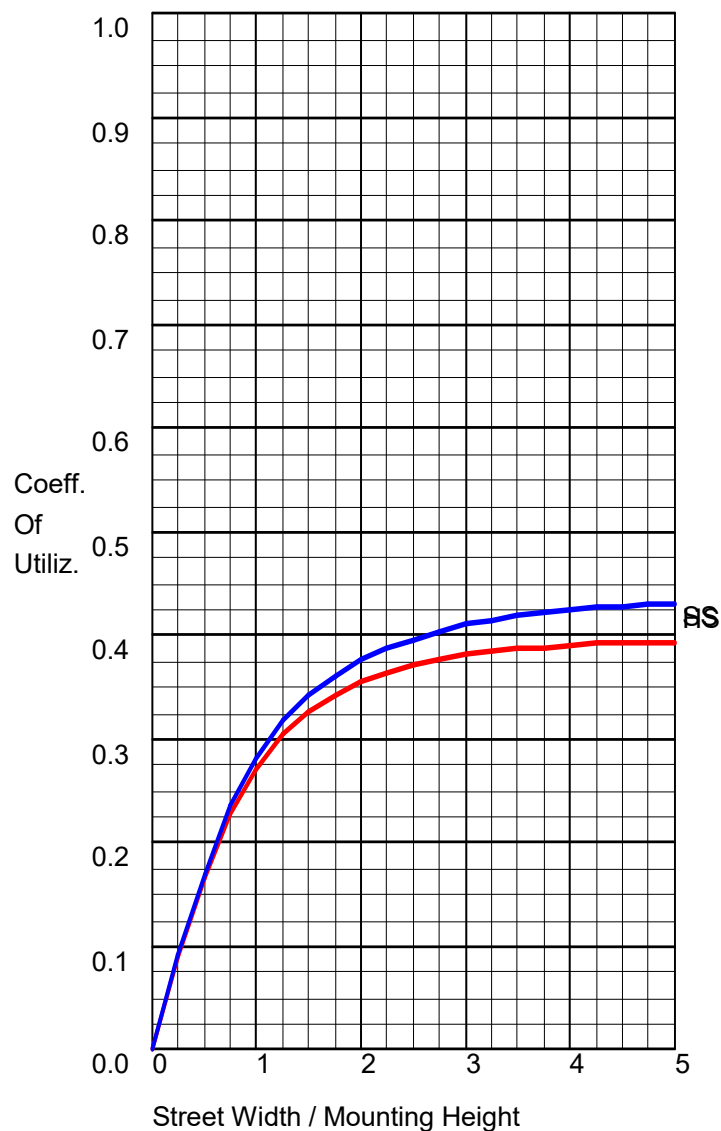
CANDELA TABULATION - (Cont.)

60.0	1279.76	1288.22	1302.90	1298.42	1314.06	1326.62	1340.45	1407.92	1463.08	1503.75
62.5	1230.10	1226.83	1242.81	1237.85	1242.69	1257.90	1248.71	1301.69	1353.95	1390.34
65.0	1166.36	1152.17	1148.54	1145.58	1136.52	1146.65	1133.12	1175.50	1221.50	1255.74
67.5	1043.13	1038.22	1035.33	1041.81	1034.44	1034.01	1023.47	1053.44	1092.38	1123.03
70.0	924.34	919.69	923.37	933.90	933.06	924.86	914.61	934.59	967.68	991.14
72.5	802.08	798.81	812.31	823.91	831.09	819.06	806.24	818.48	842.08	859.99
75.0	677.03	677.05	699.10	713.48	729.37	715.44	700.00	704.74	719.03	729.74
77.5	552.09	536.08	529.17	516.67	502.78	469.03	434.56	416.18	405.84	397.57
80.0	233.28	204.16	181.02	158.71	135.05	108.42	83.39	63.78	47.76	33.82
82.5	0.00	0.00	0.00	0.00	0.00	0.00	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. Horizontal Angles

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	2133.99	2133.99	2133.99	2133.99	2133.99
2.5	2118.54	2116.84	2115.18	2113.56	2111.98
5.0	2101.99	2098.87	2095.82	2092.85	2089.97
7.5	2085.66	2080.05	2075.90	2071.87	2067.96
10.0	2069.76	2062.14	2055.42	2050.60	2045.95
12.5	2054.00	2044.32	2033.62	2029.05	2023.94
15.0	2038.53	2026.50	2015.25	2007.22	2001.93
17.5	2050.63	2039.25	2028.20	2018.88	2012.75
20.0	2066.17	2052.44	2041.16	2030.77	2023.57
22.5	2079.65	2064.40	2053.40	2042.69	2034.39
25.0	2091.86	2075.92	2064.95	2054.15	2045.21
27.5	2101.59	2086.63	2075.74	2066.50	2056.03
30.0	2107.89	2095.84	2085.76	2077.95	2066.85
32.5	2065.99	2051.13	2041.72	2036.32	2028.88
35.0	2011.79	1999.58	1994.37	1993.50	1990.91
37.5	1953.56	1945.82	1945.98	1950.03	1952.93
40.0	1893.52	1890.06	1896.36	1905.95	1914.96
42.5	1830.79	1832.96	1845.52	1861.28	1876.99
45.0	1766.10	1773.57	1793.46	1816.06	1839.02
47.5	1726.73	1732.63	1748.12	1765.45	1782.75
50.0	1691.85	1695.41	1704.05	1715.36	1726.49
52.5	1655.74	1659.79	1660.88	1665.80	1670.22
55.0	1618.44	1625.84	1618.72	1616.77	1613.95
57.5	1580.02	1592.88	1577.89	1568.51	1557.68
60.0	1540.61	1560.67	1537.75	1520.57	1501.42
62.5	1416.05	1432.39	1406.97	1389.97	1374.33
65.0	1277.86	1294.48	1272.41	1258.25	1247.24
67.5	1139.45	1155.95	1137.66	1126.24	1120.16
70.0	1002.92	1016.73	1002.74	993.97	993.07
72.5	867.39	876.41	867.65	861.49	865.98
75.0	732.69	736.88	732.41	728.82	738.89
77.5	387.42	380.20	371.65	365.64	369.45
80.0	21.79	12.34	5.46	1.36	0.00
82.5	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00

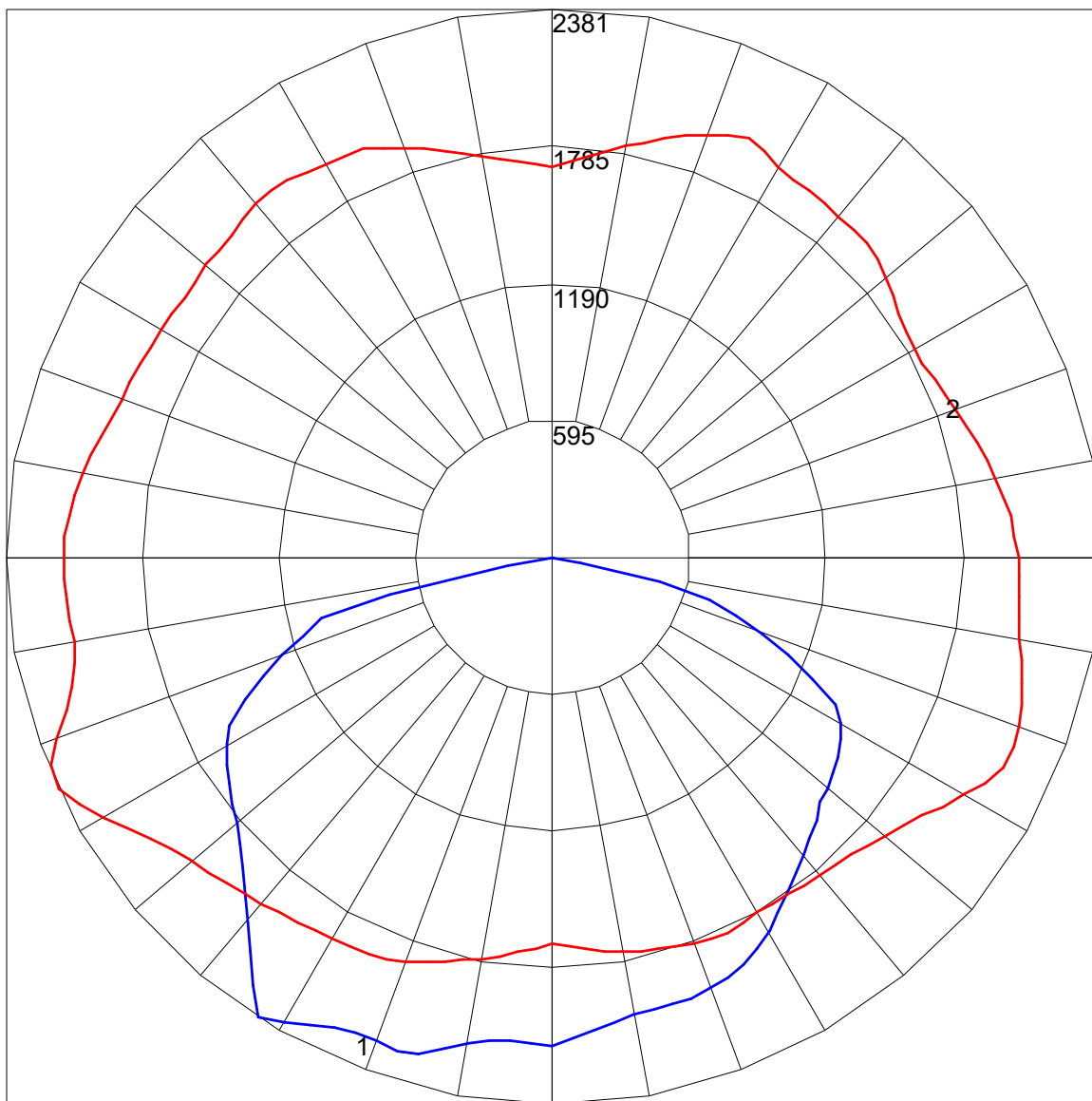
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

	Lumens	Percent Of Lamp
Downward Street Side	3509.5	39.4
Downward House Side	3838.9	43.1
Downward Total	7348.4	82.6
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	7348.4	82.6

POLAR GRAPH



Maximum Candela = 2380.59 Located At Horizontal Angle = 205, Vertical Angle = 32.5
1 - Vertical Plane Through Horizontal Angles (205 - 25) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (32.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE

