



IES INDOOR REPORT

PHOTOMETRIC FILENAME : VP4-WS-3CS-WRV-250911-1516.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] STEPID-XXXXXX NTCLR25070078

[TESTLAB] Dongguan Co. Ltd

[TESTDATE] 07 July 2025

[ISSUEDATE] 2025-07-07 16:23:15

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] TAMCO GROUP

[MORE] TAMLITE CANADA

[LUMCAT] VP4-WS-3CS-WRV

[LUMINAIRE] 4FT VAPOURTITE LINEAR FIXTURE

[MORE] 120-347VAc 50/60Hz

[MORE] 35K,40K,50K

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	206.94	206.94	2.84	2.84
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[OTHER]	10- 20	604.85	811.79	11.13	11.13
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[OTHER]	20- 30	929.90	1741.69	23.88	23.88
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[OTHER]	30- 40	1136.43	2878.12	39.46	39.46
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[OTHER]	40- 50	1188.48	4066.60	55.75	55.75
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[OTHER]	50- 60	1087.48	5154.08	70.66	70.66
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[OTHER]	60- 70	863.70	6017.78	82.50	82.50
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[OTHER]	70- 80	569.88	6587.66	90.32	90.32
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[OTHER]	80- 90	301.42	6889.08	94.45	94.45
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[OTHER]	90-100	162.47	7051.55	96.68	96.68
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[OTHER]	100-110	108.59	7160.14	98.17	98.17
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[OTHER]	110-120	69.00	7229.14	99.11	99.11
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[OTHER]	120-130	36.85	7266.00	99.62	99.62
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[OTHER]	130-140	15.39	7281.38	99.83	99.83
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[OTHER]	140-150	5.85	7287.23	99.91	99.91
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[OTHER]	150-160	3.61	7290.84	99.96	99.96
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[OTHER]	160-170	2.21	7293.05	99.99	99.99
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[OTHER]	170-180	0.83	7293.88	100.00	100.00
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[OTHER]

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CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7294
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	49.86
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.40
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.25 m
Luminous Width (90-270)	0.11 m
Luminous Height	0.04 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12832	12950	13770
55	10246	11818	12891
65	7756	10119	11231
75	6225	8195	8876
85	5669	6493	6214

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CANDELA TABULATION

	<u>0</u>	<u>15</u>	<u>30</u>	<u>45</u>	<u>60</u>	<u>75</u>	<u>90</u>	<u>105</u>	<u>120</u>	<u>135</u>
0	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100
1	2154.600	2153.300	2155.100	2154.000	2150.900	2151.400	2154.300	2158.400	2152.700	2153.000
2	2155.300	2153.000	2155.400	2154.600	2153.100	2156.500	2158.400	2160.300	2154.300	2151.700
3	2154.000	2150.800	2154.900	2156.800	2159.100	2159.600	2164.400	2162.500	2159.000	2155.800
4	2149.700	2148.700	2157.200	2160.700	2160.900	2163.700	2165.300	2164.400	2161.700	2156.500
5	2146.200	2146.500	2157.200	2157.100	2156.800	2165.100	2164.600	2161.800	2162.300	2158.900
6	2143.900	2145.000	2155.000	2156.700	2153.900	2155.600	2155.800	2160.600	2157.300	2155.900
7	2138.600	2142.100	2153.200	2152.900	2148.200	2148.200	2152.500	2152.900	2149.700	2152.700
8	2131.100	2137.300	2150.800	2144.300	2140.000	2142.000	2142.400	2143.400	2142.800	2148.000
9	2122.800	2130.800	2139.700	2136.000	2130.700	2133.700	2136.700	2139.200	2135.800	2138.800
10	2114.300	2122.800	2133.300	2123.600	2121.400	2129.700	2135.600	2135.800	2128.100	2129.300
11	2102.000	2115.000	2124.900	2112.900	2117.200	2131.000	2136.100	2135.900	2126.000	2121.800
12	2091.100	2105.900	2113.900	2103.100	2117.200	2136.700	2142.000	2139.700	2124.200	2114.100
13	2077.400	2097.100	2101.800	2096.500	2118.700	2138.800	2143.800	2143.200	2126.500	2109.400
14	2064.400	2083.200	2088.400	2088.700	2120.600	2144.200	2147.900	2146.500	2129.100	2103.800
15	2051.100	2070.400	2074.000	2086.700	2120.500	2144.500	2148.300	2144.700	2129.000	2103.200
16	2039.000	2054.200	2056.800	2082.600	2119.500	2142.200	2146.200	2143.900	2130.600	2101.500
17	2022.300	2039.600	2044.100	2076.400	2116.200	2137.400	2138.700	2137.400	2127.600	2098.400
18	2005.800	2023.700	2029.200	2067.900	2112.100	2127.700	2130.500	2126.100	2120.700	2095.800
19	1987.600	2007.000	2017.900	2058.000	2098.700	2116.000	2120.400	2118.200	2113.400	2089.600
20	1969.900	1989.300	2004.400	2047.100	2085.600	2106.700	2111.200	2108.200	2100.500	2081.200
21	1949.300	1972.000	1990.900	2034.300	2073.100	2096.800	2102.700	2099.700	2090.900	2072.300
22	1931.700	1951.900	1973.900	2019.200	2062.300	2089.100	2094.400	2092.200	2079.700	2059.300
23	1911.300	1933.100	1959.100	2003.800	2047.300	2077.900	2084.900	2082.000	2068.200	2045.500
24	1890.200	1913.600	1947.200	1987.400	2035.900	2069.200	2076.400	2072.900	2057.700	2029.900
25	1867.600	1890.500	1931.200	1968.900	2020.100	2058.700	2069.400	2062.700	2047.000	2012.000
26	1844.300	1866.500	1913.600	1951.200	2005.200	2048.100	2060.400	2051.500	2033.900	1998.800
27	1822.200	1843.100	1895.500	1933.000	1987.600	2036.600	2054.300	2041.700	2020.200	1978.600
28	1797.000	1821.700	1876.800	1914.600	1971.600	2026.700	2044.900	2031.900	2006.200	1958.600
29	1771.300	1799.200	1855.300	1896.100	1959.100	2018.000	2034.400	2025.400	1993.600	1939.600
30	1743.500	1775.400	1831.900	1876.500	1943.000	2006.100	2024.800	2014.300	1979.400	1917.500
31	1715.900	1750.000	1807.500	1855.500	1926.500	1992.700	2012.400	2000.600	1965.000	1895.400
32	1687.000	1722.900	1783.500	1836.900	1912.500	1980.600	2000.800	1988.200	1949.500	1872.100
33	1656.300	1693.600	1758.500	1816.500	1893.200	1967.900	1985.600	1978.300	1933.700	1851.500
34	1625.400	1663.200	1731.400	1793.200	1879.500	1952.900	1968.800	1960.800	1918.200	1831.800
35	1592.600	1632.500	1702.700	1775.900	1861.600	1935.000	1952.400	1944.300	1901.100	1811.900
36	1558.900	1602.000	1671.200	1743.800	1844.300	1918.400	1937.100	1927.300	1886.000	1784.300
37	1525.100	1570.100	1645.400	1718.900	1828.500	1898.700	1914.900	1906.800	1866.900	1760.000
38	1491.600	1536.500	1614.000	1708.100	1809.000	1878.300	1894.100	1892.100	1845.500	1738.600
39	1455.600	1503.800	1579.400	1676.700	1784.100	1856.200	1873.000	1868.500	1825.900	1714.300
40	1419.600	1468.900	1548.000	1657.600	1764.600	1835.000	1849.800	1847.700	1800.900	1691.000
41	1383.900	1431.600	1512.200	1627.000	1745.200	1810.500	1826.100	1823.300	1779.500	1664.200
42	1346.500	1393.400	1475.800	1600.500	1721.000	1785.400	1803.000	1799.300	1757.600	1639.900
43	1304.000	1353.800	1447.100	1576.600	1699.200	1762.300	1779.700	1776.400	1737.100	1615.500
44	1263.100	1317.200	1412.900	1551.900	1676.000	1738.200	1753.500	1754.300	1713.800	1587.800
45	1226.700	1278.200	1370.700	1527.100	1649.200	1713.700	1729.000	1728.300	1688.200	1559.200
46	1184.100	1237.000	1339.100	1499.200	1624.300	1687.000	1704.000	1701.600	1661.700	1532.600
47	1142.200	1196.600	1304.400	1468.200	1598.600	1660.800	1679.200	1675.100	1632.200	1506.400
48	1100.800	1153.700	1266.400	1447.000	1569.800	1637.600	1654.200	1648.600	1604.700	1477.200
49	1057.300	1111.900	1234.300	1416.300	1543.400	1609.300	1629.500	1622.300	1581.800	1450.400
50	1016.300	1069.000	1196.300	1390.100	1515.700	1584.200	1604.100	1595.300	1555.000	1422.900
51	971.680	1024.700	1159.700	1356.900	1490.300	1555.400	1577.100	1567.600	1524.800	1388.600
52	931.300	982.440	1123.600	1325.400	1460.200	1526.900	1546.100	1539.500	1494.600	1360.000
53	887.830	939.980	1084.900	1294.300	1430.400	1496.600	1518.400	1511.000	1465.300	1327.100

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54	846.690	896.820	1053.800	1265.800	1399.700	1467.400	1489.800	1481.400	1436.200	1296.400
55	804.260	856.640	1017.100	1233.400	1367.700	1434.700	1459.500	1446.800	1405.100	1264.500
56	763.910	817.190	981.290	1198.200	1336.400	1402.500	1424.900	1417.600	1368.900	1233.700
57	727.590	777.380	948.170	1170.100	1304.200	1367.100	1389.600	1384.500	1336.000	1202.200
58	687.600	737.640	913.750	1136.100	1268.700	1330.600	1356.200	1351.900	1301.400	1169.800
59	651.340	701.310	877.370	1099.500	1233.200	1298.000	1318.500	1310.500	1264.200	1134.500
60	615.220	665.470	844.020	1067.000	1198.200	1258.500	1282.600	1280.600	1230.100	1099.200
61	581.590	631.100	811.180	1031.300	1160.800	1220.600	1246.000	1240.500	1190.200	1062.300
62	548.720	594.620	780.020	997.870	1124.300	1187.000	1208.000	1200.800	1156.600	1026.900
63	516.950	562.910	746.200	962.690	1085.900	1147.500	1169.900	1163.200	1114.500	992.860
64	487.710	532.500	715.610	927.810	1048.400	1111.200	1132.200	1126.800	1072.800	956.310
65	457.740	502.820	684.260	886.790	1012.100	1073.700	1094.200	1087.000	1038.000	919.950
66	431.340	476.120	652.800	858.170	972.870	1033.900	1053.700	1049.400	1001.900	883.510
67	403.060	447.010	621.900	820.820	938.310	995.510	1016.500	1008.900	962.380	846.690
68	378.900	421.720	591.190	786.430	901.150	958.270	975.790	971.570	925.330	811.080
69	354.230	397.460	561.160	750.960	866.610	919.200	938.660	933.960	887.860	775.040
70	332.130	375.010	535.590	718.100	830.270	882.250	896.860	894.350	850.220	737.890
71	310.750	353.010	506.780	684.000	793.210	840.750	856.090	855.470	818.830	704.320
72	290.110	332.750	480.030	651.500	758.610	801.300	816.300	816.680	780.610	670.830
73	270.680	312.330	453.500	618.240	722.960	761.830	778.200	776.910	743.620	639.610
74	251.450	293.400	428.770	587.920	686.950	723.560	736.590	738.860	705.200	604.930
75	234.940	276.610	406.160	559.260	653.120	686.350	698.340	700.030	668.970	575.590
76	217.150	258.390	380.870	529.560	618.770	647.190	657.530	661.930	633.360	543.240
77	200.070	241.530	357.180	501.600	584.220	611.000	618.630	622.760	601.120	516.080
78	184.650	225.960	337.420	474.000	551.060	574.500	579.840	585.610	566.790	488.010
79	168.740	210.910	317.790	445.750	520.060	538.820	543.770	552.080	534.600	459.720
80	154.140	196.680	297.570	419.300	487.000	504.550	508.610	514.520	500.810	434.360
81	140.330	182.270	278.880	394.790	457.300	470.950	475.030	479.820	468.200	406.480
82	127.710	169.850	262.150	372.040	428.900	440.620	443.380	449.530	439.090	379.950
83	112.680	157.090	244.860	348.780	399.190	410.640	412.850	417.480	408.520	357.230
84	100.570	145.420	227.910	326.180	372.890	382.290	384.130	389.650	383.620	335.060
85	86.823	132.830	212.620	303.710	349.180	355.980	357.530	363.400	356.370	312.510
86	74.484	121.900	197.330	284.650	324.980	332.030	334.580	336.740	331.640	290.450
87	62.498	111.340	184.110	265.720	303.330	311.860	310.810	316.100	309.390	270.760
88	50.364	100.800	170.400	246.530	283.040	289.350	290.420	294.270	287.600	251.640
89	39.402	91.446	157.970	229.160	263.300	271.250	271.950	275.410	269.750	234.820
90	30.063	82.863	147.530	216.830	249.040	255.370	257.300	259.920	253.130	221.160
91	27.385	77.890	139.130	207.020	237.370	244.840	246.150	248.820	242.620	210.300
92	26.223	73.153	133.290	197.150	226.880	233.850	236.030	238.700	232.310	201.690
93	25.948	69.709	128.380	187.380	218.390	225.000	226.680	229.240	223.360	192.830
94	25.396	65.834	123.110	179.690	209.090	216.730	218.770	221.260	214.950	184.730
95	24.586	62.299	117.600	172.260	200.950	209.200	211.430	212.950	207.500	177.030
96	24.205	58.551	113.460	166.170	194.280	202.470	204.750	206.710	199.280	170.010
97	23.558	55.076	107.420	158.780	188.320	195.770	199.050	200.450	192.400	163.780
98	23.194	51.531	103.500	151.690	181.300	189.800	193.520	194.950	186.620	157.730
99	22.911	48.249	98.743	146.280	176.250	184.110	188.000	189.370	180.550	150.560
100	22.280	44.790	94.166	140.920	170.400	180.190	182.990	184.780	174.470	144.950
101	21.817	41.445	89.434	135.340	164.240	175.370	178.400	179.640	167.980	139.870
102	21.261	38.334	85.501	129.960	159.190	170.480	173.560	174.680	162.910	133.770
103	20.807	34.784	81.273	124.980	154.440	165.900	169.900	170.250	157.940	128.990
104	20.251	31.869	77.196	119.390	149.190	161.690	165.170	166.130	152.680	123.180
105	19.691	28.605	73.090	114.700	143.920	157.230	161.000	160.650	148.430	119.020
106	19.242	25.451	69.442	110.040	139.480	152.970	157.820	156.480	143.600	114.060
107	18.601	22.460	65.617	105.490	134.380	149.090	153.270	152.330	138.960	109.740
108	18.220	19.540	61.691	100.810	130.080	144.180	149.140	147.860	134.110	104.500
109	17.767	16.975	57.934	96.327	125.440	140.200	144.790	143.400	129.060	100.200

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CANDELA TABULATION - (Cont.)

110	17.027	15.466	54.573	92.419	120.570	135.300	140.970	139.190	124.730	95.612
111	16.746	14.651	50.949	87.798	115.810	131.320	136.430	135.030	119.760	91.791
112	16.476	14.262	47.659	83.561	111.600	127.310	132.090	130.100	115.560	87.114
113	15.924	13.611	44.563	79.366	106.850	122.530	128.820	126.090	111.220	82.883
114	15.646	13.332	40.990	75.520	102.640	118.340	123.910	121.740	106.390	78.804
115	15.367	13.051	37.799	71.436	98.226	114.160	119.810	117.280	101.860	74.680
116	15.089	12.780	34.726	67.517	93.786	109.720	115.720	112.760	97.497	70.768
117	14.910	12.592	31.747	63.806	89.125	105.000	110.970	108.080	93.118	66.797
118	14.451	12.404	28.741	59.987	84.842	100.580	106.400	103.730	88.667	63.008
119	14.177	12.131	25.728	56.583	80.707	96.473	101.800	98.868	84.520	59.337
120	14.078	11.942	22.733	52.875	76.668	92.056	97.321	94.543	80.192	55.692
121	13.809	11.849	19.806	49.014	72.367	87.468	92.951	90.216	76.080	51.755
122	13.442	11.575	16.751	45.664	68.504	83.137	88.568	85.831	71.964	48.204
123	13.253	11.569	14.067	42.058	64.413	78.903	84.302	81.632	67.847	44.591
124	12.885	11.386	11.881	38.784	60.548	74.770	79.945	77.249	63.614	41.209
125	12.070	11.203	10.581	35.393	56.669	70.674	75.785	73.050	59.823	37.804
126	11.516	11.199	9.996	32.543	52.972	66.643	71.485	69.015	55.789	34.416
127	11.229	11.108	9.545	29.313	49.046	62.602	67.490	64.883	51.861	31.464
128	11.042	11.106	9.169	26.232	45.389	58.637	63.514	60.474	48.019	28.296
129	10.857	11.015	9.070	23.155	42.014	54.674	59.420	56.586	44.473	25.233
130	10.672	11.014	8.977	20.255	38.643	50.979	55.416	52.646	40.738	22.052
131	10.490	10.831	8.611	17.237	35.126	47.184	51.418	48.624	37.323	18.947
132	10.399	10.739	8.514	14.345	32.024	43.379	47.383	44.845	33.876	15.866
133	10.214	10.736	8.423	11.616	28.909	39.776	43.680	41.274	30.778	13.351
134	10.212	10.829	8.330	9.828	25.811	36.457	40.027	37.572	27.517	11.424
135	10.120	10.776	8.237	8.606	22.628	33.071	36.602	34.103	24.265	10.302
136	10.120	10.723	7.965	8.147	19.440	29.936	33.266	31.129	20.908	9.899
137	10.029	10.671	7.958	7.860	16.406	26.613	30.122	27.674	17.806	9.512
138	9.991	10.618	7.777	7.676	13.467	23.628	26.849	24.355	14.706	9.323
139	9.953	10.565	7.682	7.581	10.923	20.233	23.437	21.014	12.107	9.226
140	9.916	10.513	7.501	7.487	9.173	17.174	20.157	17.836	10.228	8.948
141	9.878	10.465	7.405	7.307	8.120	14.068	16.916	14.577	9.156	8.847
142	9.840	10.418	7.403	7.119	7.731	11.391	13.772	11.759	8.759	8.750
143	9.802	10.371	7.134	7.207	7.636	9.384	11.086	10.012	8.663	8.750
144	9.764	10.323	7.216	7.119	7.450	8.373	9.260	8.656	8.586	8.562
145	9.727	10.276	7.126	7.045	7.354	7.977	8.048	8.279	8.509	8.467
146	9.689	10.183	6.946	6.971	7.444	7.787	7.655	8.271	8.432	8.465
147	9.651	9.996	6.849	6.897	7.390	7.695	7.560	8.087	8.356	8.275
148	9.613	9.815	6.756	6.824	7.335	7.693	7.528	7.988	8.279	8.089
149	9.575	9.720	6.575	6.750	7.280	7.602	7.497	8.081	8.186	7.991
150	9.477	9.629	6.479	6.840	7.225	7.692	7.464	7.989	8.185	7.989
151	9.476	9.355	6.478	6.571	7.170	7.600	7.433	7.986	8.092	7.913
152	9.294	9.348	6.387	6.563	7.168	7.507	7.401	7.910	7.996	7.837
153	9.108	9.167	6.385	6.470	7.075	7.505	7.369	7.834	8.088	7.761
154	9.018	8.889	6.113	6.380	7.075	7.414	7.278	7.759	7.807	7.685
155	8.834	8.793	6.108	6.378	6.798	7.226	7.088	7.683	7.712	7.609
156	8.557	8.702	6.017	6.197	6.795	7.224	7.086	7.607	7.616	7.423
157	8.376	8.516	5.832	6.102	6.612	7.040	6.994	7.416	7.521	7.324
158	8.493	8.425	5.738	6.101	6.516	6.944	6.805	7.416	7.426	7.267
159	8.610	8.422	5.738	5.920	6.516	6.943	6.620	7.322	7.331	7.209
160	8.727	8.607	5.813	6.008	6.331	6.666	6.521	7.044	7.235	7.152
161	8.844	8.792	5.888	6.020	6.330	6.661	6.519	7.130	7.140	7.095
162	8.961	8.977	5.964	6.033	6.339	6.661	6.513	7.120	7.140	7.038
163	9.079	9.162	6.039	6.045	6.348	6.661	6.508	7.111	7.140	6.945
164	9.196	9.347	6.115	6.058	6.357	6.661	6.502	7.101	7.140	7.127
165	9.750	9.889	6.190	6.070	6.366	6.661	6.496	7.092	7.139	7.226

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166	10.203	10.179	6.752	6.083	6.376	6.661	6.490	7.082	7.139	7.323
167	10.669	10.541	7.025	6.096	6.385	6.661	6.484	7.073	7.139	7.602
168	11.299	10.823	7.033	6.191	6.394	6.661	6.478	7.064	7.138	7.609
169	11.588	11.195	7.217	6.377	6.403	6.661	6.472	7.054	7.231	7.793
170	11.948	11.469	7.398	6.648	6.412	6.661	6.466	7.045	7.327	7.892
171	12.141	11.477	7.678	6.686	6.422	6.661	6.460	7.036	7.329	8.179
172	12.236	11.745	7.771	6.725	6.603	6.661	6.454	7.128	7.423	8.272
173	12.508	11.663	7.682	6.763	6.609	6.661	6.448	7.407	7.517	8.369
174	12.691	11.843	7.862	6.802	6.791	6.661	6.443	7.322	7.424	8.275
175	12.696	11.847	7.777	6.840	6.705	6.661	6.437	7.321	7.424	8.553
176	12.879	11.847	7.773	7.116	6.888	6.661	6.431	7.321	7.424	8.560
177	12.971	11.847	7.773	7.026	6.795	6.661	6.425	7.321	7.424	8.560
178	12.880	11.847	7.773	7.025	6.795	6.661	6.519	7.321	7.424	8.560
179	13.061	11.847	7.773	7.025	6.795	6.661	6.519	7.416	7.424	8.560
180	13.242	13.242	13.242	13.242	13.242	13.242	13.242	13.242	13.242	13.242

Vert. Angles **Horizontal Angles**

	<u>150</u>	<u>165</u>	<u>180</u>	<u>195</u>	<u>210</u>	<u>225</u>	<u>240</u>	<u>255</u>	<u>270</u>	<u>285</u>
0	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100	2154.100
1	2154.000	2151.500	2151.600	2153.100	2156.700	2157.100	2155.800	2159.900	2160.300	2162.500
2	2156.000	2152.600	2150.600	2153.000	2159.500	2164.100	2163.700	2171.000	2172.300	2171.200
3	2154.800	2150.500	2150.700	2153.300	2162.800	2170.300	2176.900	2184.900	2188.200	2184.700
4	2156.500	2150.200	2148.100	2152.600	2165.300	2179.900	2191.500	2198.200	2203.900	2200.500
5	2158.400	2149.000	2145.100	2151.600	2173.000	2189.200	2205.900	2214.100	2218.700	2215.800
6	2154.400	2147.100	2140.900	2152.100	2176.800	2201.500	2216.000	2224.500	2230.400	2228.800
7	2151.300	2142.400	2136.300	2150.500	2182.100	2208.500	2222.700	2233.600	2237.400	2235.300
8	2146.000	2139.400	2131.200	2149.800	2183.600	2214.200	2229.400	2238.100	2241.800	2240.400
9	2143.100	2134.900	2125.600	2148.100	2188.400	2216.800	2234.300	2241.100	2245.100	2240.700
10	2139.500	2131.600	2118.600	2145.300	2189.200	2216.100	2237.100	2245.100	2247.900	2246.700
11	2132.500	2127.700	2111.200	2141.900	2189.200	2213.200	2236.600	2249.700	2251.400	2248.400
12	2121.500	2123.500	2102.600	2136.100	2185.900	2212.900	2234.400	2250.800	2256.000	2252.800
13	2108.700	2114.500	2092.500	2132.400	2183.500	2212.500	2237.300	2253.000	2257.500	2252.400
14	2098.400	2104.100	2079.200	2125.400	2179.400	2210.700	2234.100	2247.300	2255.700	2251.000
15	2089.800	2091.000	2068.100	2118.800	2173.400	2206.600	2231.100	2244.200	2249.700	2249.000
16	2078.700	2077.900	2054.000	2112.500	2167.700	2203.800	2230.300	2237.200	2240.600	2241.000
17	2065.200	2062.300	2037.800	2103.200	2158.800	2196.900	2220.700	2226.700	2231.500	2232.300
18	2053.800	2049.500	2024.700	2091.300	2146.700	2190.400	2210.100	2214.600	2220.200	2222.100
19	2042.600	2031.400	2006.600	2077.600	2136.100	2179.800	2198.400	2204.100	2209.500	2213.200
20	2036.300	2013.200	1990.000	2064.100	2125.600	2164.300	2184.000	2193.200	2199.500	2202.000
21	2024.100	1998.400	1972.100	2051.200	2114.000	2151.900	2172.800	2182.200	2188.400	2187.100
22	2009.700	1976.000	1951.600	2032.400	2098.500	2134.600	2162.600	2172.500	2177.400	2174.100
23	1994.900	1954.700	1929.600	2013.700	2082.000	2120.100	2147.000	2157.100	2163.700	2162.700
24	1977.200	1936.400	1906.500	1993.600	2065.500	2103.700	2134.300	2146.900	2150.500	2151.800
25	1960.100	1911.300	1884.800	1973.400	2046.700	2085.800	2120.500	2135.400	2140.300	2140.000
26	1945.700	1889.400	1862.600	1952.500	2027.200	2065.200	2107.000	2122.100	2125.100	2125.600
27	1925.000	1864.100	1839.600	1929.600	2004.200	2049.000	2090.100	2107.500	2111.600	2110.500
28	1903.500	1842.100	1813.900	1904.800	1980.200	2028.800	2075.200	2093.000	2095.900	2094.200
29	1883.000	1820.900	1787.700	1879.800	1955.300	2010.000	2060.800	2078.000	2078.800	2075.300
30	1856.900	1795.600	1761.200	1853.600	1930.200	1989.400	2043.700	2063.900	2064.000	2062.500
31	1831.000	1769.300	1733.400	1825.900	1902.000	1969.000	2028.600	2046.600	2047.900	2044.600
32	1809.200	1743.200	1705.200	1796.300	1875.000	1948.300	2011.100	2030.700	2034.000	2032.100
33	1784.000	1712.800	1675.200	1770.000	1849.200	1931.800	1992.100	2020.400	2022.700	2016.200
34	1756.000	1684.700	1643.600	1739.000	1826.400	1911.300	1977.400	2009.800	2012.000	2003.000
35	1726.400	1656.800	1612.800	1707.700	1795.400	1889.200	1962.100	1995.400	1998.700	1988.400
36	1695.000	1625.500	1580.500	1673.500	1767.800	1867.300	1946.900	1982.500	1985.800	1973.900

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37	1666.400	1592.900	1546.500	1639.800	1738.900	1845.400	1929.400	1969.400	1976.100	1959.900
38	1637.800	1562.300	1511.900	1603.000	1708.600	1825.400	1910.800	1952.500	1959.500	1943.700
39	1604.200	1527.000	1474.400	1566.300	1679.000	1800.900	1893.900	1935.100	1941.000	1928.100
40	1571.500	1492.400	1437.400	1530.200	1648.500	1778.200	1874.500	1914.900	1917.700	1907.300
41	1537.700	1455.900	1399.000	1490.900	1617.800	1757.000	1852.800	1891.700	1890.200	1882.300
42	1504.300	1418.100	1360.700	1451.900	1589.500	1732.800	1831.200	1865.100	1863.400	1855.700
43	1467.100	1381.900	1321.400	1410.000	1556.000	1709.000	1806.400	1834.200	1833.800	1828.900
44	1432.800	1344.000	1280.600	1369.700	1526.100	1682.200	1778.400	1805.200	1805.800	1798.300
45	1394.800	1301.600	1238.700	1329.700	1495.900	1654.800	1751.000	1775.200	1775.800	1770.000
46	1357.300	1259.500	1197.500	1288.000	1463.000	1627.600	1721.900	1744.000	1746.400	1741.100
47	1320.500	1216.100	1155.100	1246.700	1431.000	1599.600	1689.800	1717.100	1721.400	1712.300
48	1279.400	1171.000	1111.700	1204.300	1397.000	1568.600	1658.800	1693.000	1702.000	1690.400
49	1242.400	1132.100	1067.800	1162.700	1362.500	1539.200	1627.200	1670.000	1682.700	1666.300
50	1206.400	1086.100	1023.900	1120.200	1327.500	1504.100	1598.800	1649.100	1664.000	1643.700
51	1168.800	1043.800	979.950	1078.400	1293.100	1473.000	1569.500	1631.600	1647.300	1624.200
52	1131.800	999.290	935.980	1035.300	1256.400	1439.800	1541.400	1612.600	1633.100	1606.200
53	1092.200	953.190	892.640	992.850	1220.300	1405.000	1515.000	1594.100	1615.800	1589.200
54	1058.000	909.650	850.410	951.050	1183.100	1370.500	1491.500	1574.400	1596.600	1569.600
55	1023.600	870.510	808.720	909.220	1146.000	1338.000	1467.700	1552.200	1575.600	1547.500
56	984.530	828.140	767.410	869.220	1109.500	1304.000	1442.400	1527.500	1550.500	1526.200
57	949.990	786.880	727.780	829.210	1072.700	1271.300	1414.800	1502.100	1521.600	1498.100
58	915.680	746.110	688.940	790.470	1035.700	1237.500	1387.200	1473.700	1491.300	1471.000
59	882.290	707.230	652.210	753.090	999.200	1204.800	1359.100	1442.900	1459.700	1438.700
60	848.010	671.880	616.090	716.510	963.740	1171.700	1328.700	1406.700	1425.200	1403.100
61	812.500	632.450	581.600	680.690	927.970	1138.800	1296.200	1373.600	1389.900	1367.700
62	779.870	599.820	548.560	646.260	891.370	1105.700	1263.500	1336.500	1351.800	1329.400
63	747.140	566.160	516.830	612.140	856.310	1072.600	1231.100	1298.300	1312.600	1291.000
64	716.050	535.280	486.840	580.350	822.050	1039.000	1196.500	1258.100	1270.400	1252.400
65	684.690	505.050	459.520	550.260	787.270	1004.800	1159.700	1215.800	1228.600	1210.500
66	655.070	474.820	432.180	520.900	753.460	971.850	1121.500	1175.000	1185.300	1171.400
67	623.580	446.990	406.330	493.330	719.160	936.920	1081.900	1130.300	1141.100	1127.100
68	593.160	422.710	381.550	466.840	686.760	902.700	1041.200	1084.500	1092.900	1083.200
69	565.560	398.300	357.600	441.170	653.640	868.590	999.070	1037.000	1043.300	1036.700
70	538.570	375.760	335.340	415.950	621.920	834.560	956.120	989.010	995.720	988.070
71	509.380	353.830	313.800	392.150	591.730	799.430	913.870	939.940	947.940	941.090
72	483.520	334.340	293.020	368.540	562.770	765.040	868.510	890.300	896.220	892.500
73	458.540	314.280	273.170	347.370	533.630	730.990	822.690	841.410	847.030	843.910
74	433.470	294.260	254.480	326.340	505.940	695.100	777.290	792.620	797.750	795.840
75	408.470	276.810	236.250	306.410	479.020	659.590	731.140	744.740	749.370	747.840
76	383.990	259.100	218.940	287.520	451.940	624.400	687.290	697.640	702.950	700.070
77	363.200	242.620	202.780	269.190	426.640	587.860	643.900	652.920	656.140	655.070
78	341.130	226.750	186.460	252.030	402.300	552.540	600.800	610.030	612.190	611.480
79	320.760	211.170	170.970	235.090	377.710	516.420	558.350	565.800	570.150	568.410
80	300.440	197.360	155.920	218.550	354.730	482.410	518.260	526.910	530.180	529.890
81	281.730	183.420	140.340	203.470	332.310	448.770	483.230	490.160	493.420	493.650
82	263.700	169.940	125.640	188.090	310.370	415.870	447.350	454.820	457.370	457.570
83	246.110	157.770	111.760	173.860	289.060	385.700	414.390	422.100	425.100	423.920
84	228.950	144.970	98.058	160.210	269.020	357.430	384.510	392.810	396.200	395.190
85	212.950	133.220	84.769	146.620	249.960	329.840	356.970	366.120	368.330	368.530
86	199.280	121.920	71.614	134.200	232.370	305.550	330.830	340.760	341.850	341.810
87	184.990	111.600	59.551	122.610	214.890	282.050	306.590	317.450	318.650	318.290
88	171.220	100.310	47.499	110.730	198.030	260.290	284.280	294.080	296.080	295.110
89	158.780	90.497	37.668	100.450	182.700	241.060	263.560	272.910	274.700	274.750
90	148.620	82.227	30.077	92.120	169.760	223.600	245.540	254.730	255.960	256.660
91	140.830	77.276	27.409	86.444	160.670	211.210	232.150	240.450	241.490	241.610
92	135.700	73.672	26.113	82.160	152.110	199.930	220.670	227.660	228.610	229.200

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93	130.610	70.727	25.568	77.548	144.390	190.820	211.210	217.140	217.010	218.710
94	125.770	67.011	25.203	73.443	137.210	181.860	202.130	207.330	207.590	209.060
95	120.340	63.333	24.930	69.669	130.410	174.180	193.750	198.880	198.860	200.200
96	115.450	60.047	24.562	65.621	124.500	166.720	186.510	191.400	191.170	192.080
97	110.570	56.192	24.277	62.087	118.140	159.850	179.740	184.500	184.290	185.180
98	105.580	53.461	23.900	58.398	112.750	153.990	173.690	178.750	178.350	179.660
99	100.560	49.996	23.270	55.117	107.380	147.870	168.450	173.460	173.920	174.520
100	96.418	46.775	22.995	51.654	102.310	143.010	163.560	169.390	169.760	170.110
101	91.777	43.345	22.530	48.235	98.043	138.290	159.300	165.740	167.110	166.790
102	87.965	40.022	21.895	44.685	93.383	133.280	155.710	162.640	164.070	163.720
103	83.590	36.925	21.801	41.493	89.104	128.540	151.580	160.310	161.470	160.900
104	79.450	33.913	21.251	38.264	84.818	124.200	147.590	156.950	159.010	157.210
105	75.629	30.719	20.781	35.174	80.465	119.360	143.550	153.340	155.670	153.470
106	72.005	27.539	20.233	32.059	76.619	115.200	139.020	150.100	152.270	150.160
107	68.030	24.602	19.866	29.253	72.491	110.470	135.170	146.690	148.950	146.510
108	64.391	21.771	19.502	26.250	68.474	106.010	131.390	143.070	146.350	143.030
109	60.784	19.846	19.404	23.476	64.485	102.220	127.500	139.580	143.060	139.340
110	57.173	18.796	18.766	20.959	60.782	97.754	123.920	135.730	139.710	135.800
111	53.386	18.230	18.666	18.861	57.182	93.698	119.940	132.550	136.230	132.300
112	50.224	17.410	18.307	17.651	53.821	89.777	115.550	128.690	132.700	128.930
113	46.617	17.021	17.835	16.564	50.352	85.564	111.520	125.260	128.890	125.090
114	43.155	16.562	17.470	16.189	47.021	81.524	107.420	121.310	125.560	121.380
115	40.011	16.185	17.111	15.539	43.733	77.690	103.440	117.430	121.550	117.420
116	36.883	15.809	16.741	15.166	40.412	73.613	99.425	113.580	117.660	113.250
117	33.662	15.448	16.371	14.708	37.272	69.661	95.267	109.760	113.890	109.260
118	30.785	15.070	16.000	14.344	33.993	65.900	90.922	105.580	109.880	105.490
119	27.638	14.702	15.638	13.779	31.325	62.142	86.928	101.640	105.680	100.870
120	24.594	14.238	15.178	13.415	28.304	58.484	82.863	97.177	101.730	96.873
121	21.426	13.856	14.987	13.226	25.407	54.840	78.748	92.840	97.698	92.586
122	18.478	13.584	14.622	12.951	22.759	51.271	74.800	88.905	93.399	88.433
123	15.845	13.033	14.350	12.576	19.940	47.443	70.923	84.580	89.202	84.118
124	14.175	12.651	14.154	12.217	17.355	43.850	66.817	80.437	84.786	79.839
125	12.861	12.282	13.701	11.749	14.796	40.467	62.780	76.075	80.486	75.775
126	12.256	12.004	13.337	11.474	12.941	37.114	59.036	71.912	76.281	71.583
127	11.781	11.724	13.153	11.381	11.655	33.982	54.770	67.817	72.039	67.523
128	11.504	11.625	12.787	11.198	10.815	31.079	50.817	63.830	67.746	63.209
129	11.126	11.348	12.502	10.913	10.266	27.974	46.924	59.712	63.713	59.214
130	11.026	11.074	12.138	10.639	9.897	25.188	43.306	55.584	59.566	55.042
131	10.750	10.882	11.776	10.453	9.619	22.125	39.853	51.526	55.377	50.953
132	10.463	10.694	11.500	10.268	9.345	19.283	36.447	47.455	51.344	47.085
133	10.365	10.511	11.500	9.994	9.065	16.499	33.182	43.692	47.180	43.252
134	10.181	10.508	11.500	9.901	8.790	14.020	30.108	40.137	43.338	39.832
135	9.991	10.237	11.499	9.808	8.697	11.802	26.924	36.730	39.646	36.214
136	9.895	10.047	11.499	9.797	8.601	10.045	23.718	33.307	36.273	32.878
137	9.802	9.950	11.499	9.785	8.419	9.141	20.599	30.247	32.892	29.770
138	9.706	9.767	11.499	9.774	8.326	8.686	17.653	26.906	29.618	26.462
139	9.614	9.764	11.498	9.763	8.046	8.401	14.814	23.680	26.196	23.263
140	9.425	9.583	11.498	9.751	7.864	7.949	12.257	20.441	23.144	19.985
141	9.329	9.487	11.498	9.740	7.680	7.857	10.221	17.438	19.837	17.060
142	9.236	9.392	11.498	9.729	7.587	7.763	8.744	14.509	16.788	14.113
143	9.141	9.263	11.486	9.717	7.546	7.667	8.366	11.944	13.808	11.590
144	9.046	9.133	11.475	9.706	7.505	7.486	8.002	9.741	11.305	9.764
145	8.861	9.003	11.464	9.694	7.464	7.394	7.817	8.536	9.256	8.738
146	8.672	8.874	11.452	9.683	7.423	7.304	7.625	7.968	8.115	8.364
147	8.486	8.744	11.441	9.672	7.382	7.388	7.354	7.688	7.648	8.081
148	8.387	8.741	11.430	9.660	7.341	7.117	7.254	7.501	7.462	7.889

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CANDELA TABULATION - (Cont.)

149	8.198	8.561	11.418	9.649	7.300	7.117	6.981	7.317	7.369	7.794
150	8.014	8.372	11.407	9.637	7.259	7.028	6.981	7.039	7.275	7.511
151	8.009	8.277	11.132	9.626	7.218	7.111	6.888	7.124	7.179	7.508
152	7.915	7.999	11.040	9.723	7.220	6.841	6.884	6.849	7.085	7.321
153	7.731	7.904	10.948	9.908	7.311	6.932	6.870	6.846	6.989	7.226
154	7.633	7.720	10.856	10.095	7.311	6.916	6.856	6.660	6.706	7.227
155	7.540	7.626	10.764	10.372	7.406	6.901	6.842	6.653	6.517	7.317
156	7.351	7.440	10.672	10.560	7.588	6.885	6.828	6.647	6.517	7.121
157	7.256	7.347	10.580	10.924	7.592	6.869	6.814	6.640	6.517	6.750
158	7.255	7.346	10.580	11.035	7.773	6.854	6.800	6.634	6.518	6.652
159	7.348	7.438	10.581	11.146	7.782	6.838	6.786	6.627	6.518	6.369
160	7.167	7.530	10.581	11.256	8.053	6.751	6.772	6.620	6.518	6.177
161	7.254	7.622	10.581	11.367	8.144	6.933	6.758	6.614	6.518	6.166
162	7.164	7.714	10.582	11.477	8.239	6.937	6.744	6.607	6.518	6.154
163	7.161	7.806	10.582	11.569	8.335	7.117	6.730	6.600	6.518	6.142
164	7.714	8.361	10.583	11.571	8.612	7.118	6.743	6.594	6.518	6.131
165	8.191	9.012	10.766	11.764	8.982	7.210	6.757	6.587	6.518	6.119
166	8.562	9.667	11.045	12.312	9.255	7.213	6.770	6.581	6.519	6.108
167	8.943	10.318	11.413	12.498	9.540	7.310	6.783	6.597	6.519	6.096
168	9.045	11.066	11.778	12.778	9.813	7.581	6.842	6.614	6.519	6.085
169	9.422	11.616	11.966	12.812	10.184	7.602	6.900	6.630	6.519	6.088
170	9.515	11.807	12.420	12.846	10.370	7.622	6.958	6.646	6.535	6.179
171	9.893	12.542	12.703	12.880	10.832	7.642	7.017	6.663	6.551	6.085
172	10.078	12.922	12.763	12.914	11.016	7.663	7.075	6.849	6.566	6.178
173	10.082	13.110	12.823	12.948	11.182	7.683	7.168	6.849	6.582	6.086
174	10.269	13.297	12.883	12.983	11.348	7.703	7.259	6.941	6.598	6.186
175	10.455	13.482	12.944	13.017	11.513	7.724	7.170	6.849	6.614	6.370
176	10.367	13.484	13.004	13.051	11.679	7.744	7.259	6.849	6.616	6.278
177	10.549	13.760	13.064	13.141	11.845	7.765	7.167	6.849	6.708	6.372
178	10.461	13.670	13.064	13.050	11.845	7.765	7.075	6.849	6.708	6.653
179	10.459	13.670	13.064	13.050	11.845	7.765	7.075	6.849	6.708	6.560
180	13.242	13.242	13.242	13.242	13.242	13.242	13.242	13.242	13.242	13.242

Vert. Angles	Horizontal Angles				
	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	2154.100	2154.100	2154.100	2154.100	2154.100
1	2158.100	2154.600	2153.900	2153.500	2154.600
2	2166.700	2159.200	2155.900	2153.600	2155.300
3	2175.800	2164.800	2157.200	2152.400	2154.000
4	2189.100	2175.000	2160.900	2150.600	2149.700
5	2200.500	2184.400	2163.400	2147.100	2146.200
6	2212.600	2192.400	2165.900	2141.400	2143.900
7	2225.800	2199.600	2168.700	2139.900	2138.600
8	2233.100	2203.500	2171.000	2135.300	2131.100
9	2234.900	2210.100	2172.000	2129.400	2122.800
10	2235.000	2211.300	2173.600	2123.600	2114.300
11	2235.000	2208.700	2170.900	2114.600	2102.000
12	2236.000	2206.000	2167.500	2104.200	2091.100
13	2236.800	2201.000	2162.200	2095.600	2077.400
14	2231.900	2194.800	2156.600	2086.200	2064.400
15	2228.800	2190.600	2147.800	2077.000	2051.100
16	2223.900	2183.200	2135.900	2065.500	2039.000
17	2218.300	2175.300	2122.700	2052.400	2022.300
18	2206.600	2166.900	2110.300	2041.200	2005.800
19	2194.400	2158.500	2097.400	2027.700	1987.600

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CANDELA TABULATION - (Cont.)

20	2181.500	2146.700	2084.600	2013.200	1969.900
21	2166.500	2131.600	2069.000	1997.000	1949.300
22	2152.500	2113.200	2054.400	1979.000	1931.700
23	2137.600	2097.100	2038.200	1961.300	1911.300
24	2123.000	2077.200	2020.000	1942.100	1890.200
25	2108.300	2057.600	2003.000	1923.400	1867.600
26	2092.700	2037.400	1980.700	1902.100	1844.300
27	2073.600	2015.400	1959.400	1877.600	1822.200
28	2055.800	1994.500	1935.800	1852.500	1797.000
29	2038.000	1975.100	1912.500	1826.700	1771.300
30	2021.600	1952.200	1887.700	1799.800	1743.500
31	2005.200	1931.400	1859.000	1772.100	1715.900
32	1985.600	1909.100	1829.800	1743.400	1687.000
33	1967.800	1888.000	1801.400	1713.000	1656.300
34	1951.400	1865.400	1771.400	1680.400	1625.400
35	1932.700	1844.600	1742.600	1649.200	1592.600
36	1914.000	1822.800	1714.400	1613.900	1558.900
37	1892.900	1800.200	1684.100	1579.800	1525.100
38	1876.500	1778.000	1651.800	1544.500	1491.600
39	1859.000	1754.700	1619.200	1509.200	1455.600
40	1840.000	1732.500	1588.200	1472.200	1419.600
41	1819.300	1707.000	1556.400	1435.200	1383.900
42	1797.900	1681.900	1524.900	1397.200	1346.500
43	1775.600	1658.500	1493.400	1357.800	1304.000
44	1748.200	1632.100	1460.600	1316.100	1263.100
45	1720.000	1605.700	1428.400	1275.100	1226.700
46	1691.100	1578.800	1395.400	1234.200	1184.100
47	1659.100	1550.700	1360.500	1192.800	1142.200
48	1628.100	1522.600	1325.700	1151.600	1100.800
49	1599.200	1490.900	1291.300	1110.200	1057.300
50	1569.300	1460.900	1255.300	1068.000	1016.300
51	1542.400	1429.700	1219.900	1026.500	971.680
52	1516.500	1398.900	1183.400	984.710	931.300
53	1489.600	1365.200	1147.800	943.310	887.830
54	1465.800	1332.200	1112.300	902.440	846.690
55	1439.800	1299.500	1077.200	862.450	804.260
56	1416.000	1266.500	1041.800	822.550	763.910
57	1390.100	1233.400	1006.900	784.080	727.590
58	1363.100	1201.500	971.170	747.260	687.600
59	1334.900	1170.200	936.380	709.250	651.340
60	1304.600	1139.100	901.180	673.120	615.220
61	1274.900	1106.200	867.500	639.000	581.590
62	1241.200	1074.400	832.960	605.470	548.720
63	1208.200	1041.100	800.220	573.760	516.950
64	1173.000	1007.400	766.130	543.210	487.710
65	1138.500	975.200	733.360	513.330	457.740
66	1102.000	942.640	701.760	485.840	431.340
67	1063.800	908.500	671.150	458.400	403.060
68	1024.400	875.690	640.460	431.620	378.900
69	984.100	842.270	610.490	406.470	354.230
70	942.680	807.950	581.410	383.480	332.130
71	901.480	775.050	552.900	360.630	310.750
72	859.800	741.820	524.560	338.760	290.110
73	816.010	708.430	497.480	318.180	270.680
74	772.710	674.400	471.090	299.700	251.450
75	728.460	641.260	444.930	281.430	234.940

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CANDELA TABULATION - (Cont.)

76	684.710	607.870	419.910	263.730	217.150
77	641.870	573.620	395.420	246.620	200.070
78	599.960	540.070	372.800	229.610	184.650
79	560.450	507.220	350.460	214.080	168.740
80	522.500	474.790	329.370	199.450	154.140
81	486.240	443.820	308.880	184.600	140.330
82	450.980	413.590	289.680	170.960	127.710
83	417.800	385.000	270.630	157.880	112.680
84	387.680	357.820	252.630	145.060	100.570
85	359.530	331.390	234.130	132.510	86.823
86	333.660	305.860	217.370	120.490	74.484
87	309.320	282.720	201.440	109.140	62.498
88	286.320	261.300	185.480	97.742	50.364
89	265.980	241.820	171.420	88.275	39.402
90	248.040	224.860	159.610	80.056	30.063
91	234.420	211.710	150.460	74.752	27.385
92	222.760	200.350	142.600	70.013	26.223
93	213.240	191.070	135.570	66.346	25.948
94	204.100	181.640	128.650	62.114	25.396
95	195.430	173.850	122.550	58.335	24.586
96	188.050	166.270	116.530	54.728	24.205
97	181.490	158.960	110.240	51.244	23.558
98	175.100	152.470	104.660	47.587	23.194
99	169.470	146.410	99.484	44.349	22.911
100	164.160	141.200	94.771	40.963	22.280
101	160.160	136.360	90.634	37.535	21.817
102	155.930	131.260	86.052	34.445	21.261
103	151.960	126.200	81.743	31.616	20.807
104	147.600	121.400	77.160	28.639	20.251
105	142.840	116.480	73.001	25.622	19.691
106	138.770	112.020	69.052	22.680	19.242
107	134.570	107.690	64.897	20.156	18.601
108	130.680	103.360	61.167	17.815	18.220
109	126.520	98.586	57.303	16.353	17.767
110	123.000	94.520	53.891	15.807	17.027
111	118.480	90.343	50.575	15.527	16.746
112	114.300	86.472	47.190	15.063	16.476
113	109.970	81.820	43.957	14.871	15.924
114	105.980	77.702	40.566	14.411	15.646
115	102.030	73.810	37.304	14.226	15.367
116	97.884	69.871	34.281	14.041	15.089
117	93.452	66.244	31.466	13.949	14.910
118	89.628	62.432	28.525	13.948	14.451
119	85.179	58.868	25.806	13.855	14.177
120	81.351	55.094	22.990	13.760	14.078
121	77.171	51.331	20.232	13.713	13.809
122	73.091	47.715	17.641	13.667	13.442
123	68.890	43.991	15.155	13.621	13.253
124	65.153	40.715	13.286	13.575	12.885
125	60.929	37.236	12.326	13.529	12.070
126	57.284	33.944	11.683	13.483	11.516
127	52.989	30.962	11.213	13.390	11.229
128	49.076	27.993	11.116	13.298	11.042
129	45.198	24.845	10.833	13.297	10.857
130	41.778	22.012	10.736	13.112	10.672
131	38.211	19.090	10.550	13.037	10.490

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CANDELA TABULATION - (Cont.)

132	34.924	16.413	10.271	12.963	10.399
133	31.774	13.845	10.270	12.889	10.214
134	28.560	11.670	10.177	12.814	10.212
135	25.311	10.359	10.176	12.740	10.120
136	22.213	9.792	10.084	12.735	10.120
137	19.185	9.316	10.174	12.552	10.029
138	16.266	9.129	9.988	12.461	9.991
139	13.406	9.032	9.892	12.424	9.953
140	11.202	8.750	9.707	12.386	9.916
141	9.601	8.749	9.793	12.349	9.878
142	9.041	8.654	9.516	12.312	9.840
143	8.659	8.559	9.423	12.275	9.802
144	8.566	8.465	9.422	12.276	9.764
145	8.466	8.460	9.324	12.365	9.727
146	8.184	8.175	9.140	12.271	9.689
147	7.992	7.989	9.136	12.089	9.651
148	7.803	7.984	8.950	12.087	9.613
149	7.700	7.795	8.857	11.995	9.575
150	7.424	7.606	8.667	11.903	9.477
151	7.423	7.530	8.576	11.841	9.476
152	7.332	7.455	8.666	11.779	9.294
153	7.421	7.379	8.568	11.717	9.108
154	7.327	7.304	8.385	11.656	9.018
155	7.131	7.228	8.196	11.594	8.834
156	6.758	7.223	8.102	11.532	8.557
157	6.763	7.217	7.915	11.616	8.376
158	6.769	7.212	7.928	11.342	8.493
159	6.774	7.206	7.942	11.052	8.610
160	6.780	7.200	7.955	10.498	8.727
161	6.786	7.195	7.968	10.134	8.844
162	6.791	7.189	7.982	10.040	8.961
163	6.797	7.183	7.995	9.951	9.079
164	6.802	7.178	8.008	10.135	9.196
165	6.808	7.172	7.918	10.049	9.750
166	6.814	7.167	8.011	10.072	10.203
167	6.819	7.161	8.106	10.094	10.669
168	6.825	7.156	8.198	10.117	11.299
169	6.831	7.150	8.290	10.140	11.588
170	6.836	7.144	8.201	10.163	11.948
171	6.842	7.139	8.386	10.185	12.141
172	6.847	7.133	8.402	10.208	12.236
173	6.853	7.324	8.418	10.231	12.508
174	6.853	7.421	8.433	10.254	12.691
175	6.950	7.513	8.449	10.276	12.696
176	7.045	7.418	8.465	10.299	12.879
177	7.136	7.418	8.480	10.322	12.971
178	7.045	7.418	8.480	10.322	12.880
179	7.138	7.418	8.480	10.322	13.061
180	13.242	13.242	13.242	13.242	13.242

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	811.79	N.A.	11.10
0-30	1741.69	N.A.	23.90
0-40	2878.12	N.A.	39.50
0-60	5154.08	N.A.	70.70
0-80	6587.66	N.A.	90.30
0-90	6889.08	N.A.	94.50
10-90	6682.14	N.A.	91.60
20-40	2066.33	N.A.	28.30
20-50	3254.81	N.A.	44.60
40-70	3139.66	N.A.	43.00
60-80	1433.58	N.A.	19.70
70-80	569.88	N.A.	7.80
80-90	301.42	N.A.	4.10
90-110	271.07	N.A.	3.70
90-120	340.06	N.A.	4.70
90-130	376.92	N.A.	5.20
90-150	398.15	N.A.	5.50
90-180	404.81	N.A.	5.50
110-180	133.74	N.A.	1.80
0-180	7293.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	206.94
10-20	604.85
20-30	929.90
30-40	1136.43
40-50	1188.48
50-60	1087.48
60-70	863.70
70-80	569.88
80-90	301.42
90-100	162.47
100-110	108.59
110-120	69.00
120-130	36.85
130-140	15.39
140-150	5.85
150-160	3.61
160-170	2.21
170-180	0.83

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	101	96	92	103	98	94	90	93	89	86	88	85	83	84	81	79	77
2	96	87	80	74	93	85	78	73	81	75	70	76	72	68	73	69	66	63
3	88	76	68	61	84	74	67	60	71	64	58	67	61	57	64	59	55	53
4	80	68	58	52	77	66	57	51	63	55	50	60	53	48	57	51	47	45
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	38	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	39	33	46	38	33	44	37	32	42	36	32	29
8	58	45	36	30	56	44	35	30	42	34	29	40	34	29	39	33	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	31	26	36	30	25	24
10	51	38	30	24	49	37	29	24	36	29	24	34	28	23	33	27	23	21

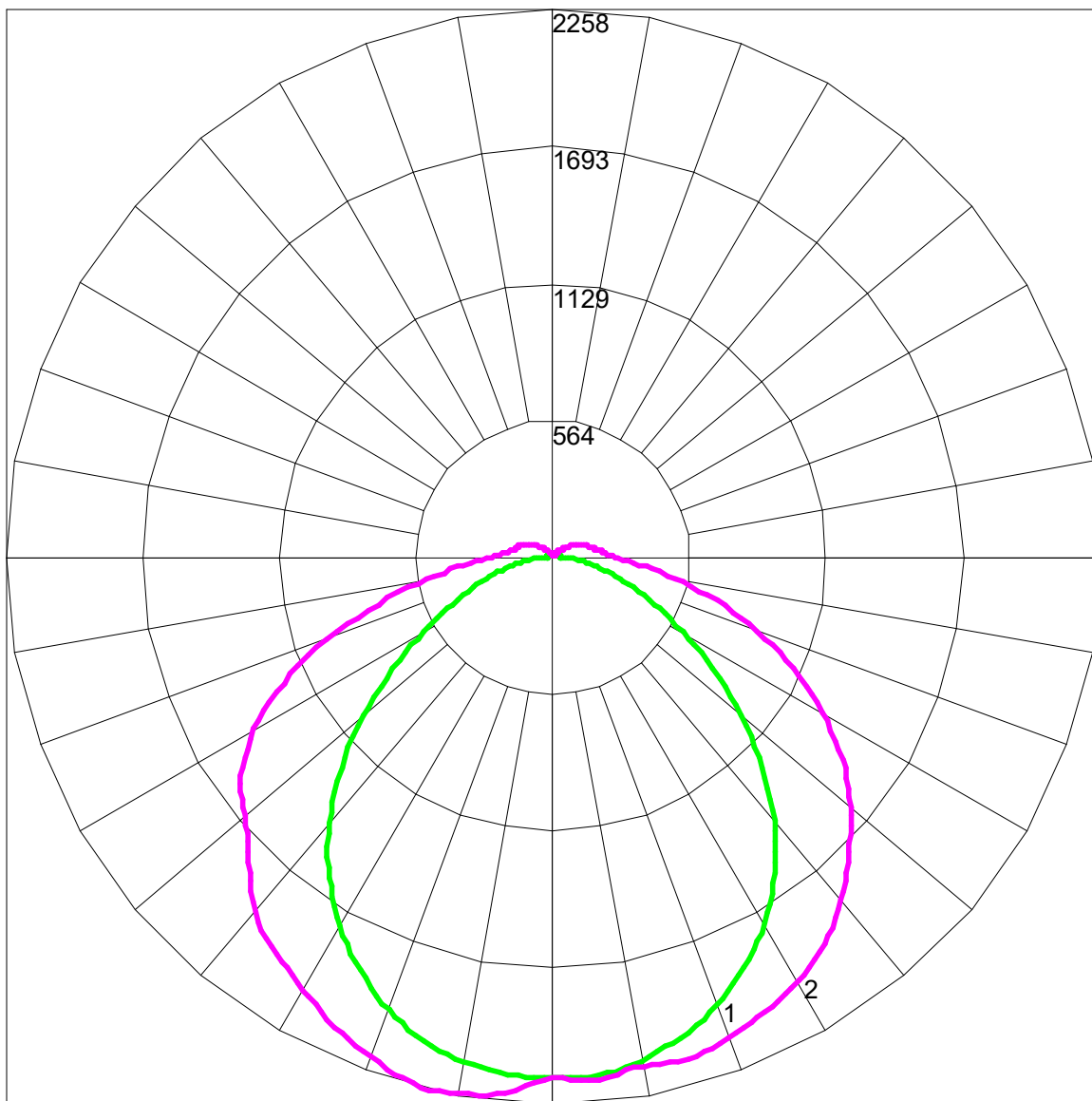
IES INDOOR REPORT
PHOTOMETRIC FILENAME : VP4-WS-3CS-WRV-250911-1516.IES

UGR TABLE - CORRECTED

Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	17.5	19.0	17.9	19.4	19.9	21.8	23.4	22.3	23.8	24.3
	3H	18.5	19.9	18.9	20.3	20.8	24.0	25.4	24.5	25.9	26.4
	4H	18.8	20.1	19.3	20.6	21.1	24.9	26.2	25.4	26.7	27.2
	6H	19.1	20.3	19.6	20.8	21.3	25.7	27.0	26.2	27.4	28.0
	8H	19.1	20.3	19.7	20.8	21.4	26.1	27.3	26.6	27.8	28.3
	12H	19.2	20.3	19.7	20.8	21.4	26.5	27.6	27.0	28.1	28.6
4H	2H	19.0	20.3	19.4	20.7	21.3	22.2	23.5	22.7	24.0	24.5
	3H	20.2	21.4	20.8	21.9	22.4	24.6	25.7	25.1	26.2	26.8
	4H	20.7	21.7	21.2	22.2	22.8	25.7	26.7	26.2	27.2	27.8
	6H	21.0	21.9	21.6	22.5	23.0	26.6	27.5	27.2	28.1	28.7
	8H	21.1	21.9	21.6	22.5	23.1	27.1	27.9	27.6	28.5	29.1
	12H	21.2	21.9	21.7	22.5	23.1	27.5	28.3	28.1	28.9	29.5
8H	4H	21.7	22.5	22.2	23.1	23.7	25.8	26.6	26.3	27.2	27.8
	6H	22.2	22.9	22.8	23.5	24.1	26.9	27.6	27.5	28.2	28.8
	8H	22.3	23.0	22.9	23.6	24.2	27.5	28.1	28.1	28.7	29.3
	12H	22.5	23.0	23.1	23.6	24.3	28.1	28.7	28.7	29.2	29.9
12H	4H	21.9	22.6	22.4	23.2	23.8	25.8	26.6	26.4	27.1	27.7
	6H	22.5	23.1	23.1	23.7	24.4	27.0	27.6	27.6	28.2	28.8
	8H	22.8	23.3	23.4	23.9	24.6	27.6	28.1	28.2	28.7	29.4

Maximum UGR = 29.9

POLAR GRAPH



Maximum Candela = 2257.5 Located At Horizontal Angle = 270, Vertical Angle = 13
1 - Vertical Plane Through Horizontal Angles (0 - 180)
2 - Vertical Plane Through Horizontal Angles (90 - 270)