

IES INDOOR REPORT
PHOTOMETRIC FILENAME : CY6-58W(90)_IESNA2002.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] EVERFINE

[TESTDATE] 2025-03-06

[ISSUEDATE] 2025-03-12 11:13:10

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-2000B_V1 SYSTEM

[MANUFAC] OKT

[LUMINAIRE] CY6-58W(90)

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	192.71	192.71	4.21	4.21
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[OTHER]	10- 20	543.98	736.69	16.09	16.09
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[OTHER]	20- 30	798.39	1535.08	33.53	33.53
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[OTHER]	30- 40	905.14	2440.22	53.30	53.30
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[OTHER]	40- 50	852.08	3292.30	71.91	71.91
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[OTHER]	50- 60	663.83	3956.13	86.41	86.41
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[OTHER]	60- 70	391.31	4347.44	94.96	94.96
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[OTHER]	70- 80	142.64	4490.09	98.07	98.07
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[OTHER]	80- 90	32.63	4522.71	98.78	98.78
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[OTHER]	90-100	3.24	4525.95	98.85	98.85
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[OTHER]	100-110	4.81	4530.76	98.96	98.96
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[OTHER]	110-120	6.77	4537.53	99.11	99.11
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[OTHER]	120-130	8.35	4545.88	99.29	99.29
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[OTHER]	130-140	9.11	4554.99	99.49	99.49
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[OTHER]	140-150	8.85	4563.84	99.68	99.68
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[OTHER]	150-160	7.52	4571.37	99.85	99.85
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[OTHER]	160-170	5.15	4576.52	99.96	99.96
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[OTHER]	170-180	1.86	4578.38	100.00	100.00
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[OTHER]

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CHARACTERISTICS

Lumens Per Lamp	4578.4 (1 lamp)
Total Lamp Lumens	4578.4
Luminaire Lumens	4578
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	79
Total Luminaire Watts	57.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.26
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.15 m (Diameter)
Luminous Width (90-270)	0.15 m (Diameter)
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	94541	92605	84174
55	80748	78337	68009
65	62056	59295	46710
75	36675	33882	21754
85	26090	23397	11494

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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	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19
1	2045.89	2046.77	2045.94	2045.28	2044.26	2044.13	2042.11	2042.37	2042.14	2041.52
2	2046.45	2047.65	2046.16	2045.83	2045.45	2043.07	2040.40	2037.92	2038.16	2037.56
3	2045.72	2047.34	2046.21	2045.96	2043.38	2040.97	2036.20	2035.13	2033.44	2032.01
4	2043.84	2045.44	2044.34	2043.96	2042.03	2038.19	2032.70	2030.34	2028.30	2026.79
5	2041.71	2043.30	2042.20	2041.06	2038.75	2032.48	2027.09	2022.35	2021.49	2019.38
6	2037.86	2040.39	2038.19	2037.41	2034.17	2030.91	2019.95	2015.15	2013.30	2012.22
7	2033.83	2035.80	2034.74	2033.01	2029.23	2022.87	2013.13	2005.75	2005.48	2002.46
8	2028.82	2030.53	2028.06	2027.87	2022.74	2015.78	2003.79	1997.55	1995.49	1992.29
9	2022.23	2023.65	2022.22	2020.63	2015.90	2007.42	1994.56	1988.34	1985.64	1981.66
10	2013.80	2015.98	2014.76	2013.23	2007.47	1998.21	1983.56	1975.92	1973.71	1970.64
11	2005.25	2007.75	2006.10	2004.20	1998.67	1988.34	1972.35	1963.86	1960.52	1955.87
12	1996.16	1998.19	1996.15	1994.56	1987.40	1976.78	1960.18	1950.09	1947.94	1943.39
13	1985.64	1988.12	1985.30	1983.57	1976.15	1964.47	1945.96	1936.74	1933.39	1928.22
14	1974.32	1976.55	1974.23	1971.63	1964.16	1951.75	1931.57	1920.35	1917.88	1912.92
15	1961.66	1963.37	1960.36	1958.51	1950.43	1936.99	1915.90	1904.87	1900.96	1896.54
16	1948.33	1951.74	1947.92	1945.52	1936.47	1922.07	1898.64	1886.83	1883.87	1877.93
17	1933.93	1937.04	1932.71	1930.35	1921.04	1905.76	1880.66	1868.98	1865.83	1860.20
18	1919.56	1921.20	1917.16	1914.72	1904.60	1888.49	1862.70	1851.07	1845.93	1840.06
19	1902.64	1905.21	1901.17	1897.65	1887.41	1869.63	1843.50	1830.22	1826.07	1819.40
20	1886.03	1888.77	1883.65	1880.27	1868.48	1850.81	1822.04	1809.34	1804.33	1797.76
21	1868.79	1870.54	1864.97	1861.50	1849.68	1830.51	1799.86	1784.72	1782.52	1775.22
22	1849.73	1852.25	1845.55	1841.84	1828.81	1809.96	1779.05	1762.38	1759.18	1751.98
23	1830.29	1831.89	1826.01	1821.13	1808.25	1784.65	1754.53	1739.23	1734.22	1726.58
24	1809.78	1812.11	1804.85	1800.21	1785.13	1765.34	1730.91	1713.76	1709.96	1701.64
25	1788.71	1790.39	1782.15	1777.45	1762.72	1739.38	1704.00	1687.23	1682.37	1675.33
26	1765.86	1767.43	1759.08	1754.38	1736.86	1713.82	1676.58	1658.63	1655.27	1648.37
27	1743.55	1743.86	1734.69	1729.38	1712.66	1688.19	1648.30	1631.66	1627.46	1619.02
28	1717.99	1718.17	1708.99	1703.57	1685.06	1660.24	1621.06	1602.86	1598.46	1590.95
29	1692.49	1693.69	1682.54	1677.05	1658.35	1632.94	1591.28	1572.08	1568.04	1559.84
30	1665.91	1665.30	1655.44	1648.20	1629.52	1602.52	1561.28	1543.44	1538.09	1529.54
31	1638.53	1638.29	1626.85	1619.91	1600.23	1573.05	1531.23	1512.17	1507.45	1499.69
32	1609.42	1609.41	1597.85	1591.55	1570.24	1542.44	1499.03	1479.94	1475.39	1466.74
33	1580.10	1580.03	1567.86	1560.56	1539.55	1511.18	1467.50	1448.39	1443.76	1436.37
34	1549.83	1549.89	1537.52	1529.67	1507.91	1479.65	1434.99	1413.75	1410.71	1400.42
35	1519.12	1517.88	1505.49	1498.18	1475.97	1446.79	1401.64	1380.90	1377.94	1368.79
36	1486.78	1486.79	1473.75	1465.99	1443.62	1413.69	1368.18	1349.84	1344.23	1337.80
37	1455.06	1453.64	1441.81	1432.72	1410.93	1382.15	1334.03	1315.05	1309.35	1300.26
38	1422.30	1421.76	1408.87	1400.86	1377.33	1347.24	1299.36	1281.26	1275.34	1266.21
39	1389.74	1388.20	1375.39	1366.14	1343.78	1312.68	1265.80	1243.31	1240.45	1228.35
40	1356.00	1354.73	1341.80	1332.61	1309.59	1278.12	1231.15	1208.76	1205.80	1195.87
41	1321.96	1320.56	1307.18	1298.42	1274.95	1243.69	1195.71	1176.70	1170.31	1162.56
42	1287.22	1285.96	1272.30	1263.34	1239.61	1208.03	1159.88	1139.79	1134.52	1125.59
43	1252.28	1251.39	1237.41	1228.61	1204.65	1172.81	1123.62	1104.56	1098.34	1091.84
44	1217.63	1215.70	1201.55	1193.13	1168.91	1137.05	1088.28	1068.12	1062.36	1053.25
45	1181.85	1180.84	1166.55	1157.65	1133.66	1101.08	1052.25	1032.16	1026.23	1018.55
46	1146.55	1144.94	1131.13	1121.68	1098.21	1064.18	1015.78	996.05	990.24	981.23
47	1110.03	1109.38	1094.71	1085.85	1061.38	1028.95	979.12	959.80	953.56	944.97
48	1073.89	1072.54	1058.62	1049.37	1025.37	992.64	943.29	923.64	917.23	908.32
49	1037.85	1036.44	1022.35	1012.75	989.28	956.08	907.41	886.80	880.50	872.31
50	1001.32	1000.18	985.92	976.63	952.49	919.86	870.98	850.24	844.08	835.66
51	964.89	963.29	949.49	940.06	916.53	883.40	834.31	814.48	808.14	799.31
52	928.75	927.38	913.36	904.12	879.94	846.94	797.90	777.44	771.32	762.37
53	891.92	890.10	876.69	867.06	843.04	810.43	762.22	741.32	734.99	726.35

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CANDELA TABULATION - (Cont.)

54	855.82	854.64	840.21	831.57	806.88	774.86	726.09	704.92	699.06	689.81
55	818.80	817.30	803.48	794.36	770.74	738.21	689.63	669.16	662.98	653.90
56	782.85	781.34	767.64	758.78	734.79	702.83	654.39	633.15	627.44	617.69
57	746.08	744.36	731.17	722.61	698.74	666.33	618.48	597.49	591.52	581.74
58	709.98	708.31	695.14	686.34	662.74	630.52	583.39	562.81	556.42	547.21
59	674.44	672.75	659.45	650.86	627.33	595.46	547.92	527.50	521.10	511.22
60	637.47	636.42	623.33	614.80	591.64	560.21	513.43	494.01	486.75	477.73
61	603.09	601.40	588.87	580.41	557.57	526.18	479.21	457.38	452.42	441.49
62	566.73	565.37	553.06	544.70	522.19	491.19	446.16	424.12	419.22	408.19
63	532.45	531.21	518.85	510.62	488.76	458.17	413.21	393.54	386.42	377.77
64	497.37	496.21	484.13	476.24	454.48	424.66	380.60	359.85	354.07	344.13
65	463.65	462.40	450.82	443.02	421.91	392.25	348.99	329.95	322.95	314.40
66	429.66	428.94	417.48	410.14	388.91	360.55	318.14	296.26	292.54	280.71
67	397.03	395.84	385.03	378.06	357.50	329.45	289.20	268.49	263.24	253.39
68	364.57	364.08	353.03	346.29	326.69	299.89	260.09	241.99	233.98	227.26
69	333.00	332.42	322.12	315.75	296.44	270.52	231.02	214.62	207.74	200.35
70	303.01	302.35	292.41	285.67	267.92	241.17	204.77	189.90	182.55	176.14
71	272.98	272.75	263.20	255.63	239.47	214.66	180.49	165.55	159.49	152.65
72	244.61	243.16	235.26	229.16	213.17	189.82	157.18	144.21	137.93	132.66
73	217.55	215.64	208.93	202.17	187.96	165.69	136.01	123.35	118.63	112.70
74	191.74	190.87	183.70	178.53	164.19	144.20	116.67	105.99	101.59	96.78
75	167.81	166.53	160.50	155.03	142.94	123.69	99.54	90.35	87.25	83.40
76	145.27	144.39	139.46	133.97	121.71	105.72	85.19	78.35	76.44	75.02
77	124.40	124.34	118.45	114.90	103.87	90.31	74.22	69.77	68.37	66.74
78	106.40	106.01	100.90	97.56	88.53	77.46	66.22	61.97	60.50	58.91
79	90.77	90.64	86.02	83.49	76.23	69.01	58.46	54.17	52.78	51.13
80	78.39	77.79	74.51	72.53	67.92	61.15	51.16	46.95	45.45	43.94
81	69.80	69.15	66.46	64.86	60.20	53.72	43.78	39.60	38.27	36.69
82	62.10	61.45	59.04	57.29	52.83	46.34	36.78	32.94	31.48	30.04
83	54.60	54.05	51.63	50.01	45.55	39.39	29.97	26.16	24.96	23.38
84	47.26	46.82	44.48	42.88	38.56	32.44	23.67	20.11	18.85	17.37
85	40.20	39.84	37.62	36.05	31.82	26.01	17.71	14.18	12.98	11.45
86	33.40	33.10	30.96	29.43	25.30	19.72	11.96	8.58	7.45	5.97
87	26.91	26.64	24.64	23.15	19.21	14.09	6.62	3.60	2.60	1.82
88	20.73	20.55	18.63	17.23	13.51	8.51	2.13	1.60	1.59	1.61
89	14.82	14.65	12.88	11.56	8.02	3.76	1.61	1.65	1.72	1.73
90	9.38	9.25	7.54	6.29	3.40	2.38	1.73	1.79	1.84	1.85
91	4.32	4.16	3.07	2.52	2.41	2.52	1.85	1.91	1.97	2.00
92	2.45	2.42	2.43	2.47	2.51	2.66	1.99	2.04	2.11	2.14
93	2.54	2.56	2.58	2.62	2.68	2.83	2.13	2.20	2.26	2.30
94	2.70	2.71	2.73	2.77	2.82	2.99	2.28	2.38	2.41	2.44
95	2.88	2.87	2.89	2.93	2.98	3.15	2.42	2.50	2.56	2.59
96	3.03	3.05	3.06	3.10	3.17	3.32	2.58	2.66	2.72	2.75
97	3.18	3.21	3.24	3.27	3.33	3.52	2.75	2.83	2.90	2.92
98	3.36	3.39	3.41	3.45	3.51	3.69	2.92	3.00	3.06	3.09
99	3.55	3.57	3.61	3.63	3.69	3.88	3.09	3.18	3.24	3.31
100	3.74	3.77	3.78	3.82	3.90	4.09	3.27	3.36	3.42	3.46
101	3.93	3.95	3.96	4.01	4.11	4.27	3.45	3.54	3.62	3.64
102	4.13	4.15	4.17	4.21	4.28	4.48	3.64	3.73	3.80	3.86
103	4.33	4.35	4.39	4.41	4.49	4.69	3.84	3.93	4.00	4.04
104	4.54	4.56	4.59	4.63	4.70	4.91	4.04	4.15	4.21	4.24
105	4.76	4.78	4.81	4.84	4.91	5.13	4.23	4.34	4.41	4.45
106	4.98	5.00	5.02	5.06	5.14	5.35	4.44	4.56	4.64	4.67
107	5.20	5.22	5.25	5.28	5.37	5.58	4.66	4.76	4.85	4.88
108	5.44	5.45	5.47	5.51	5.59	5.81	4.88	4.99	5.07	5.10
109	5.69	5.67	5.71	5.75	5.83	6.06	5.09	5.20	5.28	5.32

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CANDELA TABULATION - (Cont.)

110	5.90	5.91	5.94	5.98	6.07	6.28	5.32	5.44	5.51	5.55
111	6.13	6.15	6.18	6.21	6.29	6.52	5.55	5.67	5.73	5.77
112	6.38	6.38	6.42	6.45	6.53	6.77	5.77	5.89	5.96	6.01
113	6.62	6.62	6.66	6.67	6.77	7.00	6.01	6.12	6.19	6.23
114	6.86	6.86	6.91	6.92	7.03	7.24	6.23	6.35	6.42	6.46
115	7.11	7.12	7.15	7.20	7.27	7.51	6.47	6.60	6.65	6.71
116	7.36	7.38	7.41	7.42	7.52	7.76	6.71	6.82	6.89	6.94
117	7.62	7.63	7.67	7.70	7.77	8.00	6.95	7.06	7.14	7.19
118	7.88	7.88	7.92	7.93	8.03	8.26	7.20	7.34	7.38	7.43
119	8.14	8.14	8.17	8.18	8.29	8.52	7.45	7.56	7.63	7.68
120	8.42	8.41	8.45	8.45	8.54	8.80	7.69	7.80	7.87	7.91
121	8.67	8.65	8.69	8.71	8.80	9.03	7.93	8.04	8.11	8.15
122	8.93	8.92	8.95	8.97	9.07	9.30	8.19	8.29	8.35	8.41
123	9.19	9.18	9.23	9.23	9.32	9.56	8.44	8.54	8.61	8.65
124	9.45	9.44	9.48	9.51	9.58	9.83	8.68	8.79	8.84	8.89
125	9.72	9.71	9.74	9.76	9.85	10.08	8.93	9.07	9.09	9.14
126	9.99	9.98	10.02	10.02	10.11	10.34	9.26	9.32	9.34	9.39
127	10.25	10.24	10.27	10.28	10.36	10.60	9.52	9.54	9.59	9.64
128	10.52	10.50	10.53	10.54	10.66	10.86	9.70	9.77	9.83	9.87
129	10.77	10.76	10.77	10.80	10.86	11.11	9.92	9.99	10.07	10.12
130	11.04	11.01	11.04	11.05	11.12	11.36	10.17	10.23	10.31	10.36
131	11.31	11.26	11.28	11.31	11.37	11.61	10.41	10.48	10.55	10.61
132	11.56	11.52	11.54	11.56	11.62	11.86	10.65	10.71	10.79	10.84
133	11.82	11.76	11.77	11.83	11.87	12.10	10.88	10.94	11.02	11.07
134	12.08	12.01	12.02	12.09	12.12	12.35	11.14	11.19	11.27	11.31
135	12.32	12.24	12.27	12.34	12.34	12.58	11.47	11.42	11.51	11.56
136	12.55	12.48	12.51	12.62	12.58	12.82	11.74	11.66	11.75	11.80
137	12.77	12.71	12.76	12.97	12.81	13.05	11.97	11.89	12.00	12.03
138	13.00	12.96	13.00	13.24	13.05	13.30	12.17	12.14	12.23	12.26
139	13.25	13.19	13.22	13.44	13.28	13.53	12.39	12.37	12.48	12.52
140	13.46	13.43	13.44	13.62	13.53	13.76	12.61	12.61	12.71	12.74
141	13.70	13.67	13.67	13.76	13.75	13.99	12.84	12.86	12.94	12.95
142	13.93	13.91	13.90	13.95	13.97	14.22	13.08	13.09	13.16	13.17
143	14.17	14.15	14.12	14.16	14.19	14.46	13.32	13.31	13.38	13.40
144	14.40	14.37	14.34	14.37	14.43	14.67	13.54	13.57	13.62	13.62
145	14.63	14.60	14.57	14.58	14.65	14.90	13.77	13.79	13.84	13.88
146	14.85	14.81	14.79	14.80	14.87	15.12	14.00	14.02	14.07	14.10
147	15.06	15.03	15.00	15.02	15.08	15.33	14.24	14.24	14.30	14.34
148	15.28	15.26	15.22	15.23	15.30	15.53	14.47	14.47	14.52	14.53
149	15.48	15.45	15.41	15.45	15.50	15.74	14.71	14.72	14.75	14.77
150	15.68	15.65	15.62	15.65	15.71	15.95	14.94	14.95	15.00	14.99
151	15.90	15.86	15.83	15.85	15.90	16.15	15.17	15.19	15.21	15.22
152	16.09	16.06	16.03	16.06	16.09	16.36	15.40	15.40	15.43	15.43
153	16.30	16.26	16.24	16.27	16.30	16.55	15.63	15.64	15.65	15.66
154	16.49	16.47	16.43	16.48	16.51	16.74	15.84	15.88	15.87	15.89
155	16.70	16.66	16.64	16.67	16.75	16.94	16.08	16.09	16.10	16.13
156	16.89	16.86	16.84	16.87	16.91	17.13	16.29	16.32	16.33	16.31
157	17.09	17.06	17.04	17.06	17.11	17.33	16.52	16.55	16.55	16.55
158	17.28	17.24	17.21	17.26	17.31	17.48	16.73	16.78	16.78	16.78
159	17.46	17.44	17.41	17.44	17.48	17.71	16.95	17.01	16.99	16.98
160	17.67	17.62	17.61	17.61	17.67	17.86	17.17	17.24	17.20	17.18
161	17.82	17.80	17.77	17.79	17.83	18.04	17.39	17.42	17.40	17.39
162	18.00	17.98	17.95	17.97	18.00	18.19	17.60	17.62	17.61	17.59
163	18.16	18.16	18.12	18.15	18.18	18.36	17.78	17.82	17.81	17.78
164	18.36	18.33	18.30	18.32	18.35	18.49	17.97	18.02	18.01	17.98
165	18.50	18.51	18.44	18.49	18.52	18.66	18.16	18.20	18.20	18.15

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CANDELA TABULATION - (Cont.)

166	18.68	18.66	18.59	18.65	18.68	18.81	18.35	18.39	18.39	18.37
167	18.81	18.81	18.75	18.82	18.83	18.96	18.54	18.56	18.58	18.53
168	18.96	18.96	18.89	18.96	18.98	19.11	18.72	18.77	18.76	18.69
169	19.11	19.09	19.02	19.11	19.13	19.24	18.89	18.92	18.93	18.85
170	19.21	19.22	19.16	19.24	19.27	19.36	19.05	19.08	19.10	19.02
171	19.31	19.34	19.29	19.38	19.38	19.47	19.20	19.23	19.25	19.17
172	19.46	19.46	19.42	19.50	19.49	19.56	19.32	19.36	19.40	19.31
173	19.54	19.57	19.54	19.62	19.59	19.63	19.45	19.49	19.53	19.47
174	19.63	19.67	19.67	19.73	19.69	19.70	19.55	19.58	19.64	19.59
175	19.76	19.78	19.77	19.82	19.76	19.78	19.63	19.68	19.75	19.69
176	19.81	19.86	19.85	19.89	19.84	19.83	19.73	19.74	19.83	19.76
177	19.90	19.93	19.89	19.95	19.88	19.84	19.81	19.81	19.90	19.86
178	19.91	19.93	19.92	19.95	19.88	19.83	19.88	19.87	19.97	19.91
179	19.91	19.93	19.95	19.94	19.89	19.81	19.96	19.93	20.02	19.97
180	19.92	19.92	19.92	19.92	19.92	19.92	19.92	19.92	19.92	19.92

**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	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19	2044.19
1	2042.82	2040.97	2041.49	2042.19	2041.69	2041.46	2042.37	2042.51	2044.07	2044.74
2	2038.84	2038.33	2037.07	2038.43	2038.43	2038.47	2039.02	2040.90	2044.51	2045.48
3	2034.46	2032.88	2032.73	2033.60	2033.64	2033.64	2035.21	2037.86	2041.96	2045.54
4	2029.12	2027.41	2027.64	2028.18	2027.75	2028.26	2030.34	2033.72	2038.85	2041.99
5	2022.10	2020.14	2020.62	2021.49	2021.66	2021.16	2024.33	2027.75	2036.17	2040.57
6	2013.51	2012.98	2012.71	2013.53	2013.97	2014.22	2017.37	2022.04	2030.56	2035.71
7	2005.60	2003.90	2004.09	2004.83	2004.99	2005.60	2009.06	2015.05	2024.72	2030.49
8	1997.25	1994.07	1994.42	1994.83	1995.83	1996.28	2000.08	2007.01	2017.40	2023.87
9	1985.91	1983.49	1983.82	1984.57	1985.26	1985.91	1990.46	1997.32	2011.09	2018.68
10	1973.84	1972.26	1972.67	1972.64	1973.84	1974.00	1979.60	1987.77	2002.45	2009.46
11	1962.33	1958.21	1959.55	1960.29	1961.92	1962.22	1967.45	1977.12	1991.92	2001.00
12	1947.98	1944.89	1946.90	1946.71	1948.74	1948.81	1955.44	1965.28	1982.34	1989.42
13	1933.95	1930.48	1932.33	1932.13	1933.54	1934.01	1942.17	1952.38	1969.98	1979.96
14	1918.58	1914.88	1916.66	1916.70	1918.29	1919.63	1927.31	1938.29	1956.81	1967.02
15	1902.18	1898.88	1900.00	1900.57	1903.17	1903.92	1911.41	1926.46	1942.70	1954.57
16	1884.89	1881.24	1883.19	1883.40	1885.98	1887.11	1895.50	1907.36	1929.49	1941.55
17	1867.96	1863.40	1865.09	1865.83	1868.82	1869.81	1878.68	1892.02	1914.60	1925.70
18	1848.04	1844.08	1846.58	1846.72	1850.12	1851.50	1860.48	1874.83	1898.02	1912.16
19	1828.65	1824.30	1827.04	1827.11	1830.83	1832.20	1841.67	1856.73	1881.52	1893.69
20	1807.42	1803.73	1806.31	1806.95	1810.29	1812.10	1822.01	1837.29	1863.40	1879.01
21	1785.65	1781.13	1784.93	1785.84	1789.35	1790.66	1800.91	1817.34	1843.89	1857.97
22	1762.69	1758.96	1763.73	1763.84	1767.92	1769.60	1780.14	1796.59	1825.74	1842.48
23	1739.17	1734.86	1739.77	1741.05	1745.58	1746.56	1757.69	1774.59	1805.06	1819.08
24	1714.17	1710.21	1715.49	1716.36	1722.13	1723.56	1734.47	1752.03	1783.27	1801.72
25	1688.71	1683.73	1689.94	1690.73	1696.32	1697.14	1709.86	1728.43	1761.71	1778.57
26	1661.91	1658.37	1663.67	1665.23	1671.03	1672.63	1684.10	1703.73	1738.58	1757.22
27	1633.49	1629.35	1635.64	1636.51	1643.62	1644.69	1657.29	1676.96	1713.84	1733.54
28	1605.30	1601.31	1607.83	1609.65	1615.79	1616.95	1629.82	1650.60	1689.85	1707.74
29	1575.59	1570.91	1578.05	1578.97	1586.38	1587.82	1600.97	1622.80	1662.98	1685.28
30	1545.56	1540.78	1548.45	1548.34	1556.46	1556.41	1571.99	1594.55	1635.24	1654.23
31	1515.39	1511.94	1517.52	1519.30	1525.71	1526.90	1541.34	1565.05	1607.05	1630.56
32	1484.71	1479.22	1486.25	1486.62	1494.80	1496.97	1510.84	1535.39	1578.41	1599.74
33	1452.32	1448.73	1454.04	1455.98	1463.05	1464.71	1479.73	1504.24	1549.52	1572.10
34	1419.92	1413.48	1422.22	1421.45	1430.06	1432.13	1447.82	1473.03	1518.92	1542.66
35	1386.96	1381.59	1389.20	1389.12	1397.85	1399.74	1415.41	1441.02	1487.61	1510.00
36	1353.28	1349.08	1355.35	1356.81	1363.93	1366.42	1381.92	1408.72	1455.41	1479.87

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CANDELA TABULATION - (Cont.)

37	1319.97	1314.75	1321.89	1322.56	1330.91	1333.09	1348.51	1376.11	1423.49	1446.66
38	1285.10	1280.59	1287.49	1287.56	1295.40	1297.73	1314.22	1342.15	1390.93	1415.82
39	1251.44	1243.29	1253.09	1250.54	1261.49	1263.34	1280.55	1308.33	1357.64	1380.58
40	1216.02	1209.31	1218.19	1217.14	1226.07	1229.16	1245.75	1274.27	1323.46	1348.41
41	1181.18	1176.74	1183.09	1184.08	1191.32	1193.30	1210.80	1240.31	1289.42	1313.17
42	1145.46	1139.75	1147.25	1146.57	1155.89	1158.16	1175.35	1204.66	1255.67	1281.10
43	1109.87	1104.74	1111.41	1112.48	1120.05	1122.40	1140.20	1170.24	1220.84	1244.96
44	1073.74	1067.92	1075.32	1075.17	1084.02	1086.92	1104.69	1134.19	1185.27	1210.92
45	1037.05	1032.61	1039.48	1039.90	1047.50	1050.06	1068.15	1098.77	1149.99	1174.10
46	1002.82	995.74	1003.54	1002.87	1011.66	1014.47	1032.39	1062.47	1114.46	1141.19
47	964.05	960.29	966.91	966.86	975.18	978.00	995.99	1026.60	1078.64	1104.83
48	928.55	922.83	930.66	929.72	938.80	942.02	959.55	990.44	1042.66	1067.99
49	891.44	886.68	893.59	893.67	901.83	904.51	923.10	954.23	1007.18	1032.91
50	854.82	849.75	857.29	856.88	865.25	868.33	887.04	918.16	970.67	995.65
51	818.35	813.56	820.56	820.57	828.62	831.76	850.11	881.80	934.25	962.45
52	782.18	776.73	783.98	783.44	792.14	795.09	814.00	844.74	898.41	922.53
53	745.81	740.39	747.55	747.08	755.67	758.71	777.66	808.82	861.22	888.34
54	709.24	704.01	711.75	710.29	719.44	722.19	741.40	772.16	825.27	851.91
55	672.73	667.82	674.92	674.23	682.86	685.91	704.71	736.00	788.47	812.78
56	637.05	631.14	638.69	637.59	646.63	649.39	668.61	699.04	752.43	779.60
57	601.28	595.34	603.01	601.63	610.41	613.26	632.52	663.17	716.11	740.84
58	565.79	560.39	567.71	566.23	574.88	577.83	596.91	627.50	679.69	705.03
59	529.93	524.21	531.78	530.58	538.81	541.61	560.68	591.19	643.61	668.43
60	495.31	490.05	496.64	495.86	503.78	507.42	525.38	556.27	607.24	632.67
61	461.17	453.29	462.05	459.63	468.95	470.57	490.44	518.78	572.54	596.47
62	427.05	420.14	427.96	426.78	434.43	437.10	455.90	485.77	536.43	561.25
63	394.06	388.66	394.61	393.23	401.04	404.31	422.00	450.58	501.29	525.47
64	361.22	354.93	361.71	360.85	367.95	370.44	388.45	417.35	466.59	491.81
65	329.48	323.94	329.61	327.75	335.37	338.05	355.41	382.50	432.15	455.30
66	298.48	289.97	298.50	294.73	303.98	303.69	323.04	348.29	398.69	423.83
67	268.70	262.23	268.38	266.11	273.46	275.05	292.78	318.24	365.14	389.46
68	238.94	234.88	238.29	238.47	242.98	246.90	262.35	287.04	332.87	355.73
69	212.01	207.30	211.08	211.08	215.53	218.61	231.94	258.01	301.64	326.83
70	186.28	182.62	185.22	184.39	189.22	192.35	204.45	228.15	271.30	293.63
71	162.79	158.11	161.48	159.73	165.18	167.25	179.26	200.13	241.86	263.86
72	140.64	137.55	139.16	139.05	142.62	145.33	155.56	176.36	214.12	234.10
73	120.95	117.01	119.60	118.39	122.64	124.38	134.50	153.34	188.18	205.31
74	103.44	100.59	102.72	102.26	105.41	107.68	116.21	133.70	163.73	181.62
75	89.10	87.10	89.52	89.59	92.17	94.06	101.10	114.10	142.75	156.84
76	79.09	79.17	81.45	82.57	84.77	86.46	90.42	99.34	121.81	135.95
77	71.61	71.37	74.25	75.29	78.35	80.26	84.55	89.51	105.36	116.83
78	63.47	63.22	65.82	66.76	69.52	71.50	76.72	83.88	92.43	100.69
79	55.58	55.16	57.66	58.42	61.04	62.85	67.91	75.51	85.01	89.09
80	48.05	47.62	49.89	50.49	53.04	54.79	59.56	67.13	78.24	82.08
81	40.70	40.18	42.29	42.81	45.12	46.75	51.43	58.52	69.41	74.48
82	33.66	33.13	35.01	35.58	37.65	39.29	43.66	50.78	61.21	65.97
83	26.89	26.25	28.10	28.45	30.51	31.97	36.29	42.75	53.11	57.92
84	20.53	19.96	21.57	21.93	23.81	25.37	29.27	35.49	45.51	49.92
85	14.59	13.78	15.45	15.61	17.56	18.86	22.80	28.71	38.10	42.60
86	8.86	8.25	9.62	9.90	11.56	12.99	16.57	22.08	31.13	35.28
87	3.68	3.08	4.31	4.49	6.11	7.35	10.82	16.13	24.60	28.71
88	1.59	1.60	1.58	1.62	1.80	2.41	5.38	10.10	18.41	22.13
89	1.69	1.68	1.69	1.65	1.64	1.61	1.62	4.83	12.61	16.08
90	1.82	1.81	1.82	1.80	1.76	1.74	1.66	1.64	7.24	10.39
91	1.95	1.94	1.94	1.90	1.89	1.83	1.78	1.65	2.79	5.36
92	2.09	2.08	2.07	2.04	2.02	1.96	1.91	1.78	2.46	2.42

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CANDELA TABULATION - (Cont.)

93	2.24	2.22	2.21	2.18	2.16	2.10	2.05	1.89	2.61	2.55
94	2.38	2.37	2.36	2.34	2.30	2.25	2.19	2.03	2.77	2.70
95	2.54	2.53	2.52	2.48	2.45	2.40	2.34	2.17	2.93	2.85
96	2.70	2.70	2.68	2.66	2.61	2.55	2.49	2.32	3.10	3.01
97	2.87	2.86	2.84	2.81	2.77	2.71	2.64	2.47	3.29	3.20
98	3.03	3.03	3.01	2.98	2.94	2.88	2.80	2.62	3.46	3.37
99	3.21	3.23	3.21	3.16	3.11	3.04	2.97	2.80	3.65	3.54
100	3.39	3.39	3.37	3.34	3.29	3.24	3.13	2.97	3.84	3.75
101	3.58	3.58	3.56	3.52	3.48	3.40	3.31	3.12	4.03	3.93
102	3.77	3.77	3.74	3.71	3.66	3.60	3.50	3.30	4.23	4.13
103	3.97	3.97	3.94	3.89	3.85	3.78	3.68	3.49	4.44	4.33
104	4.17	4.17	4.15	4.12	4.05	3.97	3.88	3.69	4.66	4.55
105	4.37	4.38	4.35	4.31	4.25	4.17	4.08	3.86	4.87	4.75
106	4.58	4.59	4.56	4.55	4.46	4.39	4.27	4.07	5.09	4.98
107	4.79	4.83	4.77	4.73	4.66	4.59	4.48	4.26	5.32	5.20
108	5.01	5.03	5.00	4.98	4.88	4.81	4.69	4.47	5.55	5.43
109	5.23	5.26	5.21	5.17	5.10	5.02	4.90	4.69	5.80	5.66
110	5.46	5.47	5.44	5.41	5.32	5.25	5.12	4.90	6.03	5.90
111	5.69	5.70	5.67	5.62	5.55	5.47	5.34	5.11	6.26	6.13
112	5.92	5.92	5.89	5.84	5.78	5.69	5.56	5.34	6.51	6.37
113	6.15	6.15	6.13	6.08	6.01	5.91	5.79	5.56	6.75	6.59
114	6.38	6.38	6.35	6.30	6.22	6.15	6.01	5.79	7.00	6.84
115	6.61	6.62	6.59	6.57	6.46	6.37	6.24	6.01	7.25	7.11
116	6.85	6.86	6.82	6.77	6.69	6.61	6.47	6.23	7.53	7.35
117	7.10	7.10	7.06	7.02	6.94	6.84	6.70	6.47	7.76	7.61
118	7.34	7.35	7.32	7.27	7.18	7.08	6.94	6.69	8.02	7.86
119	7.57	7.59	7.56	7.51	7.42	7.32	7.18	6.94	8.29	8.11
120	7.82	7.85	7.82	7.74	7.66	7.58	7.42	7.17	8.55	8.38
121	8.06	8.07	8.05	8.00	7.91	7.80	7.66	7.41	8.84	8.63
122	8.31	8.32	8.29	8.23	8.15	8.04	7.90	7.66	9.11	8.90
123	8.55	8.56	8.54	8.47	8.39	8.30	8.14	7.89	9.35	9.16
124	8.80	8.80	8.78	8.73	8.63	8.52	8.38	8.13	9.62	9.43
125	9.05	9.06	9.04	8.96	8.87	8.76	8.62	8.36	9.91	9.69
126	9.29	9.29	9.28	9.20	9.12	9.01	8.85	8.60	10.15	9.96
127	9.54	9.53	9.52	9.45	9.37	9.26	9.09	8.84	10.41	10.23
128	9.78	9.79	9.78	9.69	9.61	9.49	9.34	9.07	10.69	10.49
129	10.03	10.02	10.03	9.94	9.87	9.75	9.57	9.33	10.93	10.76
130	10.25	10.28	10.27	10.18	10.09	9.98	9.81	9.56	11.20	11.00
131	10.50	10.51	10.51	10.41	10.33	10.22	10.05	9.79	11.46	11.26
132	10.74	10.74	10.76	10.66	10.58	10.48	10.29	10.03	11.72	11.51
133	10.96	10.97	10.99	10.90	10.81	10.71	10.53	10.27	11.98	11.77
134	11.20	11.21	11.22	11.12	11.03	10.94	10.77	10.50	12.22	12.02
135	11.43	11.44	11.46	11.35	11.27	11.17	10.99	10.73	12.47	12.26
136	11.67	11.68	11.69	11.61	11.52	11.41	11.24	10.96	12.70	12.50
137	11.91	11.91	11.92	11.82	11.74	11.65	11.47	11.19	12.95	12.74
138	12.15	12.15	12.15	12.06	11.98	11.88	11.72	11.44	13.19	12.99
139	12.38	12.38	12.39	12.31	12.21	12.12	11.94	11.67	13.44	13.23
140	12.63	12.62	12.63	12.54	12.46	12.35	12.18	11.92	13.68	13.47
141	12.84	12.85	12.86	12.77	12.68	12.58	12.40	12.15	13.93	13.72
142	13.07	13.10	13.10	13.01	12.91	12.81	12.64	12.39	14.16	13.95
143	13.29	13.32	13.32	13.23	13.14	13.04	12.86	12.62	14.40	14.19
144	13.52	13.55	13.56	13.47	13.37	13.28	13.10	12.87	14.64	14.42
145	13.75	13.79	13.79	13.70	13.60	13.50	13.33	13.11	14.86	14.65
146	13.98	14.02	14.03	13.94	13.84	13.73	13.57	13.34	15.09	14.89
147	14.22	14.25	14.26	14.17	14.06	13.96	13.79	13.57	15.30	15.11
148	14.44	14.47	14.49	14.40	14.30	14.18	14.02	13.83	15.52	15.33

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CANDELA TABULATION - (Cont.)

149	14.67	14.69	14.71	14.63	14.53	14.40	14.26	14.05	15.74	15.54
150	14.90	14.92	14.94	14.86	14.76	14.63	14.50	14.29	15.94	15.75
151	15.14	15.16	15.17	15.09	14.99	14.87	14.72	14.53	16.16	15.95
152	15.36	15.36	15.38	15.32	15.22	15.09	14.94	14.77	16.37	16.18
153	15.57	15.59	15.60	15.53	15.45	15.33	15.17	15.00	16.57	16.38
154	15.80	15.81	15.83	15.74	15.65	15.55	15.40	15.22	16.76	16.58
155	16.03	16.03	16.04	15.98	15.88	15.78	15.62	15.45	16.95	16.77
156	16.25	16.25	16.26	16.19	16.10	16.01	15.84	15.67	17.13	16.97
157	16.46	16.45	16.47	16.41	16.32	16.23	16.07	15.91	17.31	17.16
158	16.68	16.66	16.69	16.62	16.55	16.45	16.30	16.12	17.50	17.35
159	16.90	16.88	16.89	16.83	16.77	16.66	16.53	16.35	17.66	17.54
160	17.12	17.10	17.10	17.05	17.00	16.88	16.76	16.60	17.87	17.73
161	17.32	17.30	17.30	17.26	17.21	17.09	16.97	16.81	18.03	17.92
162	17.54	17.52	17.52	17.47	17.42	17.31	17.19	17.05	18.21	18.11
163	17.73	17.72	17.72	17.69	17.63	17.51	17.40	17.26	18.38	18.28
164	17.92	17.93	17.91	17.89	17.83	17.72	17.60	17.47	18.53	18.44
165	18.11	18.11	18.12	18.07	18.02	17.93	17.81	17.69	18.67	18.60
166	18.29	18.30	18.31	18.27	18.21	18.10	18.02	17.84	18.81	18.76
167	18.46	18.47	18.49	18.46	18.40	18.30	18.19	18.07	18.97	18.91
168	18.63	18.63	18.68	18.64	18.58	18.47	18.38	18.27	19.12	19.05
169	18.78	18.80	18.85	18.82	18.75	18.64	18.56	18.44	19.25	19.19
170	18.95	18.94	18.98	18.97	18.91	18.81	18.73	18.60	19.36	19.32
171	19.12	19.09	19.12	19.13	19.10	18.98	18.90	18.76	19.47	19.44
172	19.26	19.23	19.27	19.26	19.25	19.13	19.04	18.91	19.56	19.54
173	19.42	19.37	19.39	19.40	19.41	19.29	19.19	19.06	19.65	19.64
174	19.54	19.47	19.50	19.51	19.54	19.42	19.32	19.17	19.73	19.72
175	19.65	19.58	19.58	19.58	19.62	19.53	19.43	19.29	19.82	19.83
176	19.74	19.66	19.66	19.65	19.71	19.62	19.54	19.39	19.90	19.92
177	19.82	19.76	19.71	19.71	19.79	19.69	19.63	19.52	19.95	19.99
178	19.87	19.78	19.78	19.77	19.84	19.77	19.72	19.58	19.97	20.00
179	19.95	19.85	19.86	19.85	19.91	19.84	19.81	19.72	19.99	20.01
180	19.92	19.92	19.92	19.92	19.92	19.92	19.92	19.92	19.92	19.92

Vert. Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	2044.19	2044.19	2044.19	2044.19	2044.19
1	2045.39	2045.88	2046.12	2046.75	2045.89
2	2045.65	2047.45	2045.90	2046.36	2046.45
3	2044.87	2047.14	2045.31	2046.25	2045.72
4	2043.34	2045.31	2044.41	2045.34	2043.84
5	2040.53	2043.75	2041.46	2042.69	2041.71
6	2037.06	2040.31	2039.95	2038.71	2037.86
7	2032.07	2035.78	2032.72	2034.53	2033.83
8	2026.37	2030.14	2027.97	2029.96	2028.82
9	2020.51	2024.60	2020.50	2023.59	2022.23
10	2012.60	2016.56	2012.85	2015.73	2013.80
11	2003.28	2008.65	2004.31	2007.27	2005.25
12	1992.77	1998.56	1994.59	1997.87	1996.16
13	1982.84	1988.48	1983.96	1987.77	1985.64
14	1971.93	1977.93	1972.69	1976.32	1974.32
15	1958.75	1965.61	1959.79	1963.74	1961.66
16	1945.24	1952.54	1947.00	1950.66	1948.33
17	1930.76	1938.03	1931.83	1936.68	1933.93
18	1916.03	1923.22	1917.07	1921.71	1919.56
19	1899.18	1907.47	1900.89	1905.80	1902.64

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CANDELA TABULATION - (Cont.)

20	1882.55	1891.51	1884.05	1889.58	1886.03
21	1864.50	1872.95	1867.11	1871.38	1868.79
22	1846.58	1855.21	1847.36	1852.94	1849.73
23	1827.63	1836.56	1829.06	1833.84	1830.29
24	1806.02	1815.12	1807.19	1813.51	1809.78
25	1785.66	1795.20	1786.65	1793.51	1788.71
26	1763.40	1774.63	1765.05	1771.48	1765.86
27	1740.09	1752.46	1743.05	1748.80	1743.55
28	1715.69	1728.58	1718.49	1724.10	1717.99
29	1691.96	1705.05	1693.94	1699.82	1692.49
30	1664.80	1677.77	1667.24	1673.74	1665.91
31	1638.58	1651.19	1639.87	1645.95	1638.53
32	1608.65	1623.77	1611.46	1617.95	1609.42
33	1580.83	1594.76	1582.30	1588.72	1580.10
34	1550.63	1565.00	1551.51	1559.08	1549.83
35	1520.11	1534.01	1520.66	1527.72	1519.12
36	1488.12	1503.11	1488.77	1496.29	1486.78
37	1456.50	1470.84	1456.72	1463.64	1455.06
38	1424.82	1439.23	1424.51	1431.71	1422.30
39	1391.39	1405.76	1391.19	1398.20	1389.74
40	1358.14	1372.29	1357.65	1363.96	1356.00
41	1324.84	1338.60	1323.18	1330.64	1321.96
42	1290.36	1304.19	1289.19	1296.34	1287.22
43	1255.08	1269.57	1254.27	1260.90	1252.28
44	1220.18	1234.86	1218.94	1225.65	1217.63
45	1185.83	1199.84	1183.81	1190.46	1181.85
46	1150.41	1164.13	1148.44	1154.77	1146.55
47	1114.13	1128.81	1111.98	1119.17	1110.03
48	1078.15	1092.27	1076.29	1083.03	1073.89
49	1042.61	1056.47	1040.27	1046.65	1037.85
50	1005.85	1020.99	1003.91	1010.51	1001.32
51	969.80	983.96	967.58	973.63	964.89
52	933.92	948.14	931.21	937.79	928.75
53	897.30	910.91	894.20	901.25	891.92
54	861.01	875.28	858.41	864.47	855.82
55	824.29	837.51	821.26	828.23	818.80
56	788.30	802.29	785.32	791.69	782.85
57	751.44	765.34	748.61	754.91	746.08
58	715.30	728.50	712.34	718.33	709.98
59	679.07	693.08	676.36	682.54	674.44
60	642.39	656.25	639.94	646.36	637.47
61	607.63	621.17	605.09	611.06	603.09
62	571.32	584.49	568.69	575.04	566.73
63	536.51	549.43	534.04	540.58	532.45
64	500.88	514.56	498.62	505.25	497.37
65	466.47	480.00	465.20	471.30	463.65
66	431.98	445.64	430.49	437.46	429.66
67	398.81	411.78	397.52	404.26	397.03
68	365.95	379.25	364.97	372.15	364.57
69	333.68	346.58	333.07	339.80	333.00
70	302.90	315.40	302.89	309.19	303.01
71	272.42	284.62	272.63	279.22	272.98
72	243.50	253.86	244.02	249.28	244.61
73	216.13	226.01	216.92	221.44	217.55
74	189.72	200.06	190.97	196.10	191.74
75	165.76	175.26	167.19	171.43	167.81

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CANDELA TABULATION - (Cont.)

76	144.30	152.45	144.52	148.88	145.27
77	122.87	131.65	123.92	128.54	124.40
78	105.72	112.83	106.21	109.83	106.40
79	91.91	97.29	91.21	94.12	90.77
80	82.82	84.92	80.16	81.13	78.39
81	75.80	77.55	72.56	72.70	69.80
82	67.51	69.38	64.49	64.71	62.10
83	59.30	61.26	56.62	57.04	54.60
84	51.51	53.24	49.02	49.49	47.26
85	43.94	45.87	41.70	42.33	40.20
86	36.70	38.49	34.59	35.38	33.40
87	29.87	31.76	27.96	28.65	26.91
88	23.38	25.00	21.61	22.35	20.73
89	17.17	18.86	15.59	16.32	14.82
90	11.56	12.91	10.09	10.79	9.38
91	6.20	7.73	4.91	5.54	4.32
92	2.56	3.10	2.46	2.42	2.45
93	2.51	2.48	2.53	2.54	2.54
94	2.64	2.63	2.68	2.69	2.70
95	2.81	2.78	2.86	2.84	2.88
96	2.96	2.94	3.02	3.01	3.03
97	3.13	3.11	3.17	3.18	3.18
98	3.31	3.29	3.37	3.35	3.36
99	3.49	3.46	3.54	3.55	3.55
100	3.68	3.66	3.74	3.72	3.74
101	3.87	3.83	3.97	3.92	3.93
102	4.07	4.04	4.11	4.11	4.13
103	4.27	4.24	4.32	4.31	4.33
104	4.48	4.45	4.54	4.52	4.54
105	4.69	4.65	4.75	4.74	4.76
106	4.91	4.87	4.97	4.95	4.98
107	5.13	5.09	5.19	5.18	5.20
108	5.37	5.32	5.42	5.41	5.44
109	5.60	5.55	5.66	5.64	5.69
110	5.83	5.80	5.89	5.87	5.90
111	6.07	6.01	6.12	6.11	6.13
112	6.30	6.25	6.36	6.34	6.38
113	6.54	6.47	6.60	6.56	6.62
114	6.78	6.71	6.85	6.81	6.86
115	7.04	6.98	7.12	7.08	7.11
116	7.29	7.25	7.35	7.32	7.36
117	7.55	7.48	7.60	7.59	7.62
118	7.79	7.73	7.86	7.83	7.88
119	8.05	7.98	8.12	8.09	8.14
120	8.32	8.25	8.37	8.36	8.42
121	8.56	8.50	8.63	8.60	8.67
122	8.83	8.77	8.90	8.88	8.93
123	9.12	9.03	9.16	9.14	9.19
124	9.36	9.29	9.43	9.40	9.45
125	9.63	9.56	9.69	9.67	9.72
126	9.90	9.82	9.96	9.93	9.99
127	10.15	10.09	10.22	10.20	10.25
128	10.42	10.35	10.48	10.46	10.52
129	10.67	10.61	10.74	10.73	10.77
130	10.92	10.86	11.00	10.97	11.04
131	11.17	11.12	11.23	11.23	11.31

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CANDELA TABULATION - (Cont.)

132	11.43	11.38	11.51	11.49	11.56
133	11.68	11.63	11.74	11.73	11.82
134	11.93	11.89	11.99	11.98	12.08
135	12.17	12.13	12.23	12.21	12.32
136	12.41	12.38	12.47	12.46	12.55
137	12.66	12.62	12.72	12.69	12.77
138	12.89	12.86	12.95	12.93	13.00
139	13.13	13.09	13.18	13.17	13.25
140	13.37	13.32	13.42	13.41	13.46
141	13.61	13.57	13.66	13.66	13.70
142	13.84	13.79	13.90	13.88	13.93
143	14.07	14.02	14.12	14.13	14.17
144	14.31	14.24	14.35	14.35	14.40
145	14.54	14.48	14.58	14.58	14.63
146	14.77	14.70	14.82	14.81	14.85
147	14.99	14.93	15.04	15.04	15.06
148	15.21	15.15	15.24	15.24	15.28
149	15.42	15.37	15.44	15.46	15.48
150	15.62	15.57	15.65	15.66	15.68
151	15.84	15.78	15.86	15.87	15.90
152	16.04	16.00	16.06	16.08	16.09
153	16.25	16.20	16.27	16.28	16.30
154	16.46	16.41	16.49	16.47	16.49
155	16.65	16.62	16.71	16.68	16.70
156	16.84	16.81	16.87	16.88	16.89
157	17.05	17.02	17.08	17.06	17.09
158	17.25	17.22	17.28	17.26	17.28
159	17.45	17.40	17.46	17.45	17.46
160	17.64	17.58	17.65	17.64	17.67
161	17.80	17.78	17.83	17.83	17.82
162	17.98	17.93	18.00	18.01	18.00
163	18.15	18.12	18.17	18.18	18.16
164	18.33	18.30	18.35	18.35	18.36
165	18.48	18.46	18.50	18.53	18.50
166	18.65	18.61	18.67	18.69	18.68
167	18.79	18.80	18.82	18.85	18.81
168	18.96	18.95	18.98	19.01	18.96
169	19.10	19.10	19.12	19.15	19.11
170	19.22	19.25	19.27	19.29	19.21
171	19.35	19.38	19.40	19.42	19.31
172	19.47	19.51	19.52	19.54	19.46
173	19.57	19.65	19.67	19.64	19.54
174	19.70	19.76	19.75	19.73	19.63
175	19.79	19.86	19.87	19.83	19.76
176	19.89	19.96	19.95	19.90	19.81
177	19.96	20.04	19.99	19.96	19.90
178	20.00	20.06	20.03	19.96	19.91
179	20.01	20.06	20.03	19.96	19.91
180	19.92	19.92	19.92	19.92	19.92

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	736.69	16.10	16.10
0-30	1535.08	33.50	33.50
0-40	2440.22	53.30	53.30
0-60	3956.12	86.40	86.40
0-80	4490.07	98.10	98.10
0-90	4522.69	98.80	98.80
10-90	4329.98	94.60	94.60
20-40	1703.53	37.20	37.20
20-50	2555.61	55.80	55.80
40-70	1907.21	41.70	41.70
60-80	533.95	11.70	11.70
70-80	142.64	3.10	3.10
80-90	32.63	0.70	0.70
90-110	8.05	0.20	0.20
90-120	14.82	0.30	0.30
90-130	23.16	0.50	0.50
90-150	41.13	0.90	0.90
90-180	55.67	1.20	1.20
110-180	47.62	1.00	1.00
0-180	4578.36	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	192.71
10-20	543.98
20-30	798.39
30-40	905.14
40-50	852.08
50-60	663.82
60-70	391.31
70-80	142.64
80-90	32.63
90-100	3.23
100-110	4.81
110-120	6.77
120-130	8.35
130-140	9.11
140-150	8.85
150-160	7.52
160-170	5.15
170-180	1.86

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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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	91	90	88	86
2	101	94	88	83	99	92	87	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	73	69	66	64
4	86	75	67	61	84	74	66	60	71	64	59	69	63	58	66	62	58	55
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	47	58	51	46	57	50	46	55	49	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	45	41	50	45	40	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	46	41	36	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	30	40	34	30	29

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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

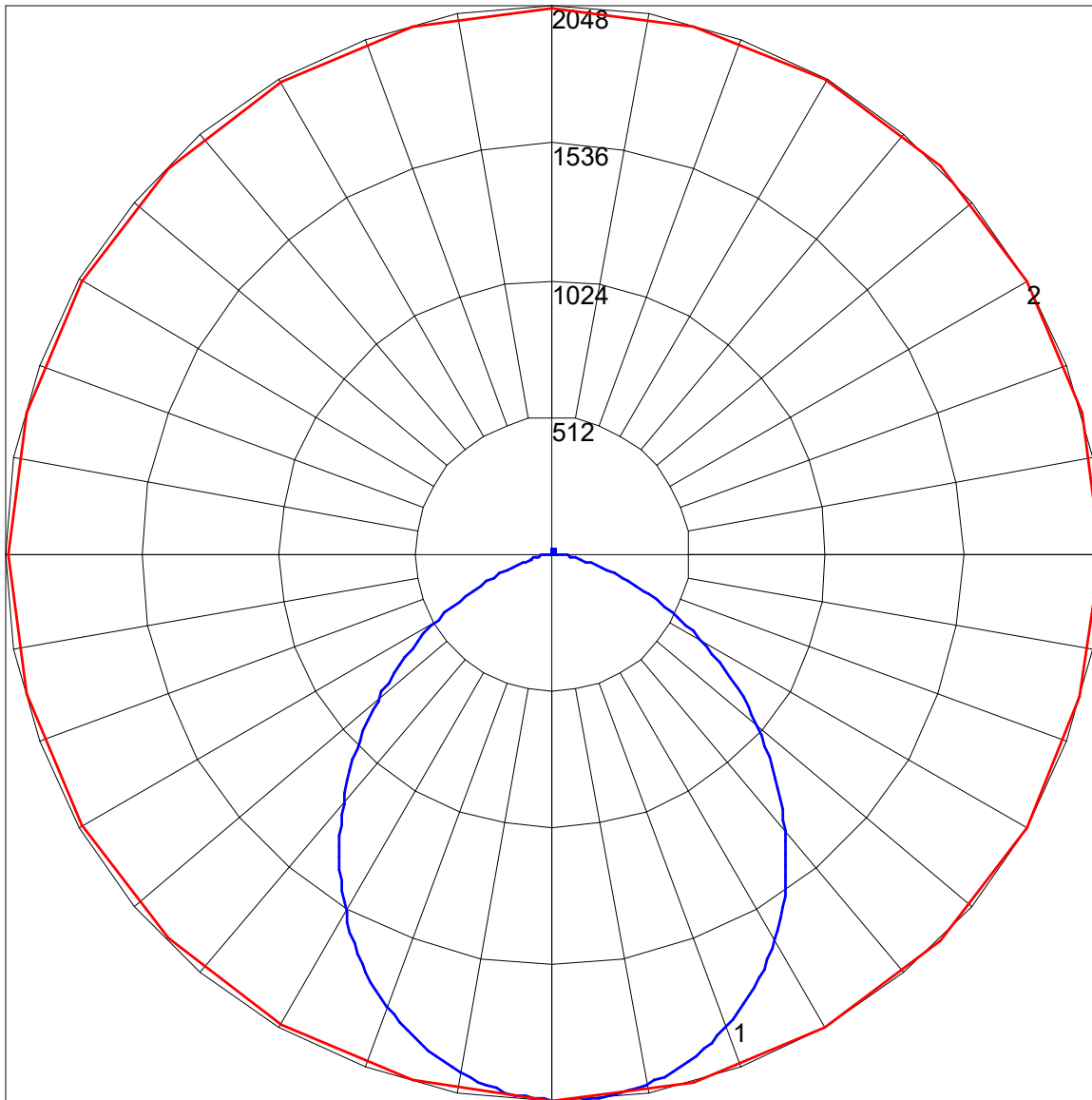
X=2H	Y=2H	26.4	27.9	26.8	28.2	28.6	25.2	26.7	25.6	27.1	27.4
	3H	27.6	28.9	28.0	29.2	29.6	26.1	27.4	26.5	27.8	28.2
	4H	27.8	29.1	28.3	29.5	29.9	26.2	27.5	26.7	27.9	28.3
	6H	28.0	29.1	28.4	29.5	29.9	26.3	27.4	26.7	27.8	28.3
	8H	28.0	29.1	28.4	29.5	29.9	26.3	27.4	26.7	27.8	28.2
	12H	28.0	29.0	28.5	29.5	29.9	26.3	27.3	26.7	27.7	28.2

UGR Viewed Endwise

4H	2H	26.8	28.1	27.3	28.5	28.9	25.7	26.9	26.1	27.3	27.7
	3H	28.2	29.2	28.6	29.6	30.0	26.7	27.7	27.1	28.1	28.5
	4H	28.5	29.4	28.9	29.8	30.3	26.9	27.8	27.3	28.2	28.7
	6H	28.7	29.5	29.1	29.9	30.4	27.0	27.8	27.5	28.2	28.7
	8H	28.7	29.5	29.2	29.9	30.4	27.0	27.7	27.5	28.2	28.7
	12H	28.8	29.4	29.3	29.9	30.4	27.0	27.7	27.5	28.2	28.6
8H	4H	28.6	29.3	29.1	29.8	30.3	27.0	27.7	27.4	28.2	28.6
	6H	28.8	29.4	29.3	29.9	30.4	27.1	27.7	27.6	28.2	28.7
	8H	28.9	29.4	29.4	30.0	30.5	27.1	27.7	27.7	28.2	28.7
	12H	29.0	29.5	29.5	30.0	30.6	27.2	27.6	27.7	28.2	28.7
12H	4H	28.5	29.2	29.0	29.7	30.2	26.9	27.6	27.4	28.1	28.6
	6H	28.8	29.3	29.3	29.8	30.4	27.1	27.6	27.6	28.1	28.7
	8H	28.9	29.4	29.4	29.9	30.5	27.1	27.6	27.7	28.1	28.7

Maximum UGR = 30.6

POLAR GRAPH



Maximum Candela = 2047.65 Located At Horizontal Angle = 15, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (15 - 195) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)