



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CPYSA10LED60DMVBZ50-NVLAP-IES.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Dongguan New Testing Centre Co., Ltd

[TESTDATE] 14 November 2018

[ISSUE DATE] 2018-11-14 11:40:58

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] MOBERN LIGHTING CO.

[LUMCAT] CPYSA10LED60DMVBZ50

[LUMINAIRE] LED

[BALLAST] 120-277Vac 50/60Hz

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	136.97	136.97	1.70	1.70
[OTHER]	10- 20	446.87	583.84	7.24	7.24
[OTHER]	20- 30	772.19	1356.03	16.82	16.82
[OTHER]	30- 40	1062.40	2418.42	30.00	30.00
[OTHER]	40- 50	1278.96	3697.39	45.86	45.86
[OTHER]	50- 60	1444.18	5141.57	63.78	63.78
[OTHER]	60- 70	1360.85	6502.42	80.66	80.66
[OTHER]	70- 80	1142.11	7644.53	94.83	94.83
[OTHER]	80- 90	358.46	8002.99	99.27	99.27
[OTHER]	90-100	12.44	8015.43	99.43	99.43
[OTHER]	100-110	25.93	8041.36	99.75	99.75
[OTHER]	110-120	11.81	8053.17	99.89	99.89
[OTHER]	120-130	6.82	8059.99	99.98	99.98
[OTHER]	130-140	1.53	8061.52	100.00	100.00
[OTHER]	140-150	0.10	8061.62	100.00	100.00
[OTHER]	150-160	0.05	8061.67	100.00	100.00
[OTHER]	160-170	0.02	8061.69	100.00	100.00
[OTHER]	170-180	0.00	8061.69	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	8061.7 (1 lamp)
Total Lamp Lumens	8061.7
Luminaire Lumens	8062
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	134
Total Luminaire Watts	60.2973
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.74
Spacing Criterion (90-270)	1.74
Spacing Criterion (Diagonal)	1.86
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.23 m
Luminous Width (90-270)	0.19 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	52511	52795	53994
55	66813	62940	64292
65	77913	74241	71310
75	92581	91549	94099
85	57531	71367	76784

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CANDELA TABULATION

	0	15	30	45	60	75	90	105	120	135
0	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25
1	1445.34	1445.81	1446.95	1446.66	1448.64	1448.52	1448.02	1447.96	1446.50	1445.40
2	1443.68	1444.86	1446.00	1448.64	1451.53	1450.68	1449.61	1447.01	1445.37	1443.39
3	1442.43	1443.68	1443.59	1448.00	1450.35	1450.47	1448.18	1445.73	1444.24	1444.18
4	1441.36	1440.81	1442.04	1444.69	1447.05	1447.26	1444.59	1444.27	1444.64	1445.98
5	1438.36	1438.70	1441.29	1442.28	1442.30	1444.31	1441.13	1441.96	1443.93	1446.42
6	1434.85	1435.13	1438.12	1438.55	1437.52	1441.88	1439.12	1441.21	1442.09	1440.51
7	1431.48	1431.75	1434.32	1431.29	1433.07	1438.85	1438.05	1440.13	1440.18	1433.60
8	1432.04	1431.16	1431.87	1427.23	1433.30	1437.22	1437.10	1438.89	1438.05	1432.09
9	1438.36	1436.24	1431.61	1427.78	1433.11	1435.23	1437.47	1437.21	1438.14	1435.82
10	1453.66	1448.53	1441.33	1430.91	1435.90	1431.58	1433.16	1435.54	1440.80	1439.60
11	1481.66	1472.02	1465.39	1443.19	1445.44	1430.67	1429.92	1436.02	1447.45	1452.80
12	1517.66	1504.13	1497.51	1467.23	1466.79	1437.98	1439.03	1443.05	1466.73	1477.62
13	1551.25	1537.15	1529.88	1496.63	1497.26	1456.87	1466.20	1462.27	1496.70	1507.32
14	1579.07	1564.91	1553.69	1524.03	1530.08	1485.38	1510.30	1490.99	1530.77	1532.96
15	1593.42	1584.91	1567.84	1546.94	1563.08	1521.95	1555.52	1525.71	1562.81	1551.88
16	1607.64	1609.41	1579.60	1565.82	1600.34	1555.17	1585.58	1558.01	1593.21	1568.96
17	1619.54	1644.49	1595.40	1586.22	1640.04	1582.36	1598.15	1588.37	1627.21	1591.94
18	1615.30	1669.29	1612.71	1606.75	1674.55	1608.51	1601.32	1618.17	1669.43	1617.37
19	1604.88	1677.56	1619.95	1619.79	1693.10	1636.02	1605.70	1645.76	1705.58	1630.58
20	1590.31	1662.57	1609.44	1615.81	1689.68	1660.08	1618.56	1671.04	1714.55	1619.73
21	1577.62	1627.68	1588.97	1608.21	1667.20	1674.94	1642.91	1686.94	1698.28	1608.69
22	1581.59	1603.26	1579.15	1603.76	1641.52	1679.00	1662.41	1682.44	1662.90	1608.78
23	1589.55	1599.71	1595.62	1606.60	1618.32	1667.53	1673.49	1663.33	1634.15	1624.54
24	1602.57	1622.69	1628.80	1622.26	1605.87	1647.29	1670.01	1640.33	1619.56	1650.66
25	1633.79	1679.58	1695.69	1651.49	1606.43	1624.88	1655.63	1633.46	1629.66	1687.40
26	1660.20	1729.92	1735.18	1684.86	1637.41	1628.42	1654.37	1642.00	1649.04	1709.02
27	1686.54	1770.86	1752.08	1693.54	1657.25	1645.32	1656.64	1664.22	1666.10	1731.10
28	1700.59	1774.96	1761.77	1705.57	1669.97	1663.57	1664.52	1662.99	1672.80	1740.28
29	1708.63	1764.20	1756.18	1716.50	1662.35	1661.39	1643.94	1653.78	1670.25	1734.03
30	1700.07	1736.45	1754.61	1725.03	1668.89	1657.45	1617.51	1641.31	1683.15	1734.30
31	1679.45	1703.10	1745.17	1729.75	1679.89	1663.46	1608.39	1642.21	1700.35	1734.95
32	1672.22	1670.44	1717.70	1717.71	1688.82	1669.30	1606.11	1637.37	1711.27	1741.07
33	1672.13	1645.06	1679.74	1700.45	1699.01	1677.53	1599.35	1629.21	1714.48	1730.38
34	1672.58	1643.12	1654.16	1690.33	1715.95	1681.28	1582.37	1620.93	1717.71	1704.72
35	1679.83	1661.71	1658.76	1697.84	1730.33	1682.12	1565.46	1620.74	1722.86	1684.44
36	1686.82	1685.35	1694.31	1706.95	1745.90	1687.27	1570.75	1632.53	1713.16	1678.14
37	1713.53	1707.33	1732.91	1700.58	1747.14	1689.91	1596.42	1639.40	1705.59	1682.14
38	1730.92	1718.53	1747.49	1694.00	1730.01	1684.87	1631.51	1638.53	1698.88	1699.43
39	1728.73	1721.19	1741.74	1702.71	1701.46	1676.41	1671.26	1636.10	1696.89	1725.64
40	1712.79	1720.29	1727.91	1720.41	1686.96	1673.05	1694.64	1650.46	1690.00	1747.86
41	1675.11	1702.97	1708.41	1725.91	1686.17	1672.09	1678.41	1663.79	1681.31	1747.39
42	1640.60	1664.11	1675.82	1701.57	1690.43	1664.51	1648.84	1652.87	1676.36	1719.68
43	1622.95	1622.51	1632.11	1661.43	1680.94	1648.21	1631.84	1623.35	1661.90	1679.68
44	1619.82	1604.32	1602.70	1635.38	1647.15	1636.11	1642.03	1614.94	1636.51	1645.55
45	1623.31	1608.09	1602.67	1632.09	1607.11	1640.56	1669.16	1628.39	1614.33	1627.14
46	1626.11	1625.36	1624.78	1623.71	1593.21	1636.62	1689.11	1644.85	1609.40	1623.41
47	1641.78	1636.95	1647.15	1616.72	1607.87	1628.02	1675.00	1646.97	1617.04	1634.53
48	1665.62	1644.56	1640.41	1630.42	1635.39	1614.80	1631.91	1626.74	1628.06	1650.92
49	1669.81	1643.74	1610.53	1646.34	1658.11	1608.57	1611.25	1602.15	1634.56	1650.36
50	1653.46	1634.41	1594.27	1628.53	1648.97	1609.80	1625.87	1600.02	1614.12	1622.90
51	1626.29	1617.50	1593.43	1603.55	1615.83	1614.34	1639.32	1613.15	1586.63	1591.06
52	1626.60	1590.20	1608.68	1590.27	1598.57	1607.50	1619.09	1613.05	1578.62	1592.43
53	1661.83	1574.43	1636.59	1585.18	1617.55	1595.11	1585.87	1612.28	1578.75	1614.30

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54	1684.50	1579.02	1647.32	1580.36	1638.96	1598.99	1574.23	1626.76	1581.46	1635.12
55	1675.41	1589.29	1631.68	1578.28	1633.42	1614.48	1612.18	1638.73	1582.58	1653.02
56	1635.19	1571.95	1596.35	1583.85	1599.89	1646.04	1644.65	1630.20	1564.90	1668.27
57	1606.43	1561.11	1565.71	1591.00	1592.27	1673.14	1622.43	1606.48	1564.63	1675.43
58	1586.58	1549.70	1522.46	1564.25	1573.48	1654.25	1602.76	1594.80	1588.40	1615.89
59	1588.27	1560.08	1499.94	1543.05	1544.09	1581.01	1601.47	1568.56	1594.43	1564.62
60	1579.24	1595.13	1506.12	1556.68	1543.47	1529.12	1578.79	1584.55	1564.74	1530.44
61	1544.36	1580.73	1491.71	1535.22	1540.82	1505.32	1526.91	1611.02	1565.35	1471.55
62	1514.30	1528.28	1465.63	1527.35	1499.07	1460.02	1443.43	1575.37	1517.20	1490.07
63	1482.08	1490.87	1446.60	1489.82	1463.94	1449.08	1414.20	1546.37	1470.28	1469.33
64	1459.46	1439.72	1417.06	1425.19	1431.57	1420.59	1396.23	1442.23	1444.98	1447.67
65	1439.54	1407.85	1380.23	1371.70	1418.40	1365.31	1317.54	1338.11	1404.82	1396.94
66	1359.02	1373.07	1302.23	1330.35	1382.07	1311.70	1266.69	1309.10	1329.94	1327.96
67	1279.95	1287.02	1258.43	1312.75	1316.56	1255.22	1256.10	1280.33	1294.02	1290.03
68	1270.67	1226.71	1219.06	1266.21	1238.83	1238.19	1247.96	1246.81	1307.43	1223.68
69	1252.87	1180.96	1238.95	1228.18	1187.80	1200.51	1225.63	1222.80	1238.26	1188.04
70	1225.80	1195.23	1196.75	1196.19	1166.88	1157.63	1184.46	1195.06	1196.65	1154.16
71	1209.35	1191.67	1158.73	1156.85	1170.02	1167.63	1187.33	1193.76	1139.11	1100.03
72	1141.70	1157.28	1111.19	1109.05	1105.06	1151.35	1171.99	1157.99	1104.13	1117.15
73	1166.89	1171.90	1070.87	1052.49	1038.69	1117.58	1133.89	1129.26	1104.07	1059.48
74	1100.50	1123.42	1108.82	1001.36	1015.40	1105.47	1062.00	1052.46	1058.12	1004.69
75	1047.57	1055.37	1121.43	1035.89	1045.95	1045.97	1064.75	1004.47	1041.77	1048.52
76	1085.77	1093.07	1126.72	1114.49	1112.49	1066.61	1022.69	1017.64	1090.95	1062.89
77	984.74	1044.35	1144.65	1126.99	1134.07	1091.99	1074.84	1007.40	1130.76	1157.18
78	983.44	972.13	1081.18	1152.88	1093.84	1066.11	1078.79	1023.27	1119.31	1120.31
79	976.37	918.52	957.23	1062.31	1072.57	1005.02	1044.50	1026.55	1057.03	1047.66
80	862.05	846.55	822.36	945.43	873.28	895.92	977.78	915.46	938.83	966.93
81	775.73	775.13	703.24	803.57	730.57	762.99	867.48	824.99	769.00	768.78
82	629.99	659.68	596.46	616.66	575.69	659.11	697.13	665.79	639.25	591.59
83	445.70	530.06	488.51	484.35	507.88	504.61	532.45	544.20	532.61	455.92
84	345.65	414.47	365.10	378.14	347.57	394.94	412.51	356.68	418.55	350.63
85	219.21	298.89	238.45	271.93	202.63	285.26	292.57	218.17	304.49	208.92
86	171.57	184.45	185.10	167.11	173.72	176.36	173.91	172.68	192.08	176.23
87	127.00	143.12	135.80	137.44	136.50	143.32	153.79	143.00	147.73	129.64
88	101.71	110.00	104.49	111.21	108.89	112.86	117.29	112.25	110.96	102.81
89	77.09	81.37	80.07	78.69	75.87	87.27	87.34	86.01	96.12	83.00
90	52.47	61.04	55.68	52.66	42.85	57.96	70.89	59.77	65.44	63.13
91	31.18	40.63	28.95	26.63	9.82	28.65	61.38	33.54	43.57	35.09
92	8.36	20.22	19.35	1.30	4.50	0.00	51.86	22.36	21.70	8.40
93	4.21	0.06	9.85	0.00	0.03	0.05	42.35	11.17	0.02	4.23
94	0.11	0.05	0.34	0.03	3.03	2.22	32.84	0.07	0.23	0.08
95	0.03	0.10	0.17	0.13	11.11	15.02	23.36	11.01	6.49	0.13
96	0.09	0.45	0.27	1.02	7.95	10.44	19.46	8.63	12.39	0.40
97	0.23	10.17	0.97	1.04	4.48	6.62	15.56	5.37	7.68	1.72
98	6.05	19.89	2.39	0.54	2.69	4.00	11.66	3.40	4.98	0.87
99	34.30	30.42	9.61	0.68	1.07	2.24	7.37	1.98	3.15	0.50
100	63.14	69.78	18.88	0.81	0.19	0.83	5.01	0.66	0.82	0.57
101	91.97	85.29	28.20	1.02	0.29	0.07	2.27	0.09	0.16	0.69
102	95.01	87.58	37.51	1.29	0.39	0.04	0.26	0.08	0.20	0.86
103	94.03	87.60	44.03	1.97	0.45	0.05	0.17	0.08	0.25	1.07
104	89.74	83.25	47.66	3.82	0.45	0.06	0.16	0.08	0.27	1.61
105	83.96	79.16	49.25	6.00	0.48	0.06	0.08	0.07	0.30	3.01
106	77.38	73.39	47.27	7.42	0.56	0.07	0.14	0.07	0.34	4.41
107	71.50	67.82	43.62	8.29	0.66	0.07	0.11	0.06	0.42	5.02
108	64.45	61.94	39.53	8.12	0.82	0.07	0.05	0.06	0.51	5.64
109	57.59	55.07	34.58	8.26	1.20	0.06	0.05	0.06	0.60	5.47

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110	51.77	49.54	30.78	7.56	1.15	0.06	0.05	0.07	0.69	5.44
111	45.05	43.57	26.81	7.06	1.10	0.05	0.04	0.07	0.82	4.97
112	39.71	39.30	24.18	6.54	1.21	0.05	0.04	0.07	0.93	4.59
113	36.14	36.16	22.48	5.84	1.20	0.04	0.05	0.07	0.97	4.41
114	33.11	33.74	20.98	5.64	1.15	0.04	0.05	0.07	0.97	4.24
115	30.16	31.84	20.14	5.53	1.11	0.04	0.04	0.06	0.92	3.82
116	27.24	28.70	18.10	5.28	1.07	0.02	0.03	0.05	0.84	3.38
117	24.88	26.53	16.53	4.71	0.99	0.02	0.01	0.04	0.65	3.29
118	23.30	24.98	16.69	4.39	0.88	0.02	0.01	0.04	0.45	3.13
119	21.51	24.28	17.83	4.21	0.76	0.02	0.01	0.03	0.25	2.98
120	19.77	24.38	20.44	3.92	0.64	0.01	0.02	0.03	0.08	2.81
121	19.85	25.18	25.22	3.69	0.51	0.01	0.01	0.03	0.05	2.63
122	19.97	24.86	23.08	3.56	0.39	0.01	0.00	0.02	0.04	2.40
123	20.36	23.01	17.39	3.39	0.23	0.01	0.00	0.01	0.03	2.18
124	26.05	22.07	14.53	3.20	0.05	0.01	0.00	0.01	0.02	1.96
125	38.00	25.60	11.36	2.98	0.04	0.00	0.00	0.00	0.02	1.72
126	36.72	23.54	9.31	2.77	0.04	0.00	0.00	0.00	0.02	1.51
127	29.36	21.47	7.26	2.52	0.04	0.00	0.00	0.00	0.02	1.31
128	27.46	19.37	6.75	2.26	0.04	0.00	0.00	0.00	0.02	1.08
129	22.91	16.09	6.37	1.99	0.04	0.01	0.00	0.00	0.02	0.76
130	15.88	12.30	5.88	1.74	0.04	0.01	0.00	0.00	0.02	0.23
131	13.54	9.14	5.37	1.45	0.04	0.01	0.00	0.00	0.02	0.08
132	11.34	8.39	4.88	1.01	0.04	0.01	0.00	0.00	0.02	0.07
133	9.14	7.64	4.33	0.37	0.04	0.01	0.00	0.00	0.03	0.08
134	8.36	7.00	3.77	0.21	0.03	0.01	0.00	0.00	0.03	0.12
135	7.67	6.47	3.25	0.23	0.03	0.01	0.00	0.01	0.04	0.17
136	7.06	5.91	2.70	0.25	0.04	0.01	0.00	0.02	0.04	0.19
137	6.16	5.09	2.02	0.25	0.03	0.01	0.01	0.02	0.04	0.19
138	4.83	4.20	1.01	0.26	0.03	0.01	0.02	0.02	0.03	0.19
139	3.99	3.43	0.29	0.25	0.07	0.01	0.02	0.02	0.04	0.19
140	3.15	2.45	0.22	0.24	0.11	0.00	0.02	0.02	0.07	0.18
141	1.83	1.08	0.21	0.22	0.12	0.00	0.01	0.01	0.11	0.17
142	0.55	0.23	0.20	0.21	0.12	0.00	0.01	0.01	0.14	0.16
143	0.15	0.17	0.19	0.21	0.12	0.07	0.01	0.07	0.16	0.15
144	0.14	0.16	0.18	0.21	0.12	0.11	0.06	0.11	0.17	0.14
145	0.14	0.15	0.16	0.20	0.13	0.15	0.10	0.15	0.17	0.13
146	0.13	0.15	0.15	0.19	0.13	0.16	0.13	0.17	0.17	0.13
147	0.13	0.14	0.14	0.17	0.13	0.18	0.14	0.17	0.16	0.13
148	0.11	0.12	0.14	0.16	0.14	0.19	0.15	0.18	0.15	0.14
149	0.11	0.11	0.14	0.13	0.14	0.18	0.16	0.17	0.15	0.14
150	0.10	0.11	0.13	0.12	0.15	0.18	0.16	0.17	0.15	0.14
151	0.11	0.10	0.13	0.11	0.15	0.17	0.15	0.16	0.15	0.15
152	0.10	0.10	0.12	0.10	0.15	0.17	0.15	0.15	0.16	0.16
153	0.10	0.10	0.10	0.10	0.15	0.16	0.14	0.15	0.16	0.15
154	0.09	0.09	0.08	0.10	0.15	0.16	0.13	0.15	0.16	0.15
155	0.08	0.08	0.07	0.10	0.15	0.15	0.13	0.15	0.16	0.15
156	0.07	0.07	0.06	0.11	0.15	0.15	0.13	0.15	0.16	0.15
157	0.06	0.06	0.05	0.11	0.14	0.14	0.13	0.15	0.16	0.15
158	0.05	0.06	0.04	0.11	0.13	0.14	0.13	0.14	0.15	0.14
159	0.05	0.05	0.04	0.11	0.12	0.13	0.13	0.14	0.15	0.14
160	0.05	0.06	0.03	0.09	0.12	0.13	0.13	0.14	0.15	0.14
161	0.05	0.06	0.07	0.02	0.11	0.12	0.13	0.13	0.14	0.07
162	0.05	0.07	0.09	0.01	0.10	0.12	0.12	0.13	0.14	0.06
163	0.04	0.06	0.09	0.00	0.09	0.11	0.12	0.13	0.14	0.05
164	0.04	0.06	0.08	0.00	0.00	0.10	0.11	0.12	0.12	0.05
165	0.04	0.05	0.07	0.00	0.00	0.09	0.10	0.12	0.06	0.04

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CANDELA TABULATION - (Cont.)

166	0.04	0.05	0.06	0.00	0.00	0.00	0.09	0.05	0.05	0.04
167	0.03	0.04	0.05	0.05	0.00	0.00	0.04	0.05	0.05	0.09
168	0.03	0.04	0.05	0.06	0.00	0.00	0.04	0.05	0.05	0.11
169	0.03	0.03	0.04	0.06	0.01	0.00	0.04	0.05	0.05	0.11
170	0.03	0.03	0.04	0.06	0.06	0.00	0.04	0.05	0.11	0.11
171	0.02	0.03	0.04	0.06	0.06	0.04	0.07	0.09	0.11	0.11
172	0.02	0.02	0.04	0.05	0.05	0.04	0.07	0.08	0.10	0.10
173	0.02	0.02	0.03	0.04	0.04	0.03	0.06	0.07	0.08	0.08
174	0.01	0.02	0.02	0.02	0.03	0.01	0.05	0.06	0.07	0.07
175	0.00	0.01	0.01	0.01	0.01	0.00	0.04	0.05	0.05	0.05
176	0.02	0.02	0.01	0.01	0.01	0.00	0.03	0.04	0.03	0.04
177	0.02	0.02	0.03	0.02	0.02	0.01	0.02	0.03	0.03	0.03
178	0.00	0.02	0.02	0.02	0.03	0.03	0.02	0.03	0.02	0.02
179	0.00	0.00	0.01	0.01	0.03	0.03	0.01	0.02	0.02	0.01
180	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</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	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25	1446.25
1	1445.32	1443.15	1444.25	1443.93	1444.81	1444.33	1444.42	1445.22	1443.89	1445.45
2	1442.27	1441.39	1441.52	1441.31	1442.54	1442.09	1442.82	1442.53	1441.61	1442.78
3	1441.84	1439.94	1439.99	1440.68	1441.65	1438.72	1439.24	1437.05	1436.50	1437.87
4	1444.85	1440.26	1438.34	1438.09	1438.05	1433.33	1434.03	1433.02	1432.01	1432.46
5	1448.30	1441.12	1438.18	1437.48	1433.78	1427.48	1428.32	1428.99	1427.15	1428.66
6	1445.72	1437.87	1433.93	1433.34	1429.47	1424.48	1424.33	1423.88	1424.15	1424.76
7	1437.13	1434.91	1429.36	1428.33	1424.63	1421.80	1422.07	1419.89	1422.43	1422.47
8	1434.26	1436.14	1428.92	1429.42	1423.54	1421.55	1419.42	1417.48	1417.56	1419.93
9	1435.73	1442.13	1434.29	1438.11	1431.51	1429.02	1424.70	1415.76	1416.62	1419.12
10	1443.35	1448.20	1445.86	1456.67	1450.50	1449.82	1443.16	1423.13	1428.59	1424.07
11	1459.30	1476.47	1470.90	1486.94	1486.24	1479.57	1470.09	1447.70	1460.44	1443.16
12	1488.15	1511.97	1506.40	1517.04	1525.52	1507.86	1505.18	1488.19	1505.27	1477.92
13	1521.93	1548.36	1545.16	1544.67	1556.30	1525.90	1536.12	1530.41	1543.71	1523.16
14	1548.77	1579.72	1580.22	1564.14	1576.22	1539.30	1565.71	1567.61	1564.08	1561.63
15	1566.50	1603.93	1598.18	1580.16	1596.89	1557.11	1590.14	1595.48	1573.50	1592.24
16	1580.43	1627.75	1602.84	1602.10	1625.82	1579.93	1615.83	1620.33	1578.73	1622.67
17	1599.54	1649.22	1597.34	1619.63	1662.28	1609.85	1643.31	1648.16	1594.58	1652.44
18	1622.90	1666.75	1592.74	1629.42	1681.60	1623.36	1668.39	1680.62	1617.97	1682.32
19	1641.05	1666.00	1591.59	1624.70	1668.76	1610.16	1665.29	1708.64	1644.11	1698.84
20	1640.09	1649.48	1586.17	1605.77	1637.67	1587.58	1640.29	1707.49	1662.68	1699.33
21	1623.82	1623.63	1577.64	1586.64	1606.26	1579.79	1613.24	1678.80	1674.51	1678.51
22	1610.72	1597.45	1566.64	1575.63	1601.06	1596.14	1611.14	1641.04	1670.21	1648.83
23	1614.82	1584.57	1567.47	1577.05	1624.05	1633.92	1632.77	1615.46	1653.32	1622.38
24	1639.34	1598.01	1583.75	1587.94	1665.45	1685.12	1674.01	1627.60	1653.85	1620.40
25	1673.77	1644.57	1600.06	1615.02	1706.01	1727.79	1709.02	1658.12	1662.89	1650.85
26	1711.81	1707.74	1621.52	1644.09	1717.36	1750.84	1729.28	1693.17	1673.27	1689.35
27	1744.14	1754.55	1652.19	1670.89	1724.73	1765.23	1729.52	1706.29	1661.80	1711.59
28	1774.75	1754.40	1670.83	1671.26	1741.22	1776.32	1722.96	1690.02	1638.26	1707.82
29	1783.99	1724.88	1673.34	1664.09	1761.95	1781.86	1726.31	1668.00	1629.81	1686.19
30	1783.17	1699.84	1675.23	1674.27	1768.93	1771.30	1734.05	1649.84	1627.07	1661.42
31	1771.84	1697.01	1674.84	1691.13	1746.45	1740.18	1729.19	1635.23	1615.66	1632.58
32	1749.39	1700.12	1674.11	1714.70	1699.84	1709.20	1717.13	1635.69	1596.00	1613.91
33	1717.31	1701.27	1674.17	1726.10	1663.76	1684.79	1706.63	1650.36	1580.46	1608.68
34	1687.84	1695.68	1677.94	1721.67	1662.12	1675.46	1702.74	1666.08	1582.42	1612.91
35	1667.88	1693.52	1683.05	1715.63	1688.54	1680.42	1699.14	1667.17	1608.18	1615.29
36	1672.61	1702.98	1687.32	1718.19	1715.35	1690.69	1706.55	1665.83	1641.64	1614.71

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CANDELA TABULATION - (Cont.)

37	1686.78	1720.09	1692.03	1740.25	1719.39	1710.39	1715.06	1664.49	1670.15	1617.17
38	1706.31	1735.28	1698.27	1749.97	1717.21	1741.61	1731.24	1682.67	1681.39	1633.77
39	1724.12	1739.81	1709.10	1751.93	1718.49	1765.67	1736.19	1696.98	1665.43	1655.09
40	1732.54	1737.76	1707.13	1724.43	1719.87	1754.27	1722.62	1680.15	1646.14	1660.33
41	1722.56	1707.21	1682.49	1679.47	1716.83	1714.35	1697.38	1649.03	1645.37	1656.11
42	1687.15	1659.14	1639.11	1644.16	1680.34	1673.09	1670.50	1635.21	1668.02	1651.64
43	1646.14	1616.66	1609.64	1628.62	1626.34	1648.32	1652.32	1658.33	1699.97	1661.72
44	1628.85	1600.74	1604.56	1628.99	1601.21	1634.36	1629.79	1692.60	1704.76	1681.21
45	1625.32	1599.33	1614.95	1627.59	1612.82	1622.18	1624.01	1700.96	1677.97	1693.73
46	1634.28	1598.72	1634.51	1628.91	1653.09	1625.71	1643.45	1672.05	1643.42	1688.61
47	1643.01	1609.78	1661.42	1627.04	1674.02	1651.97	1668.92	1632.23	1627.77	1657.58
48	1660.99	1635.00	1681.89	1630.13	1664.55	1670.03	1671.08	1607.78	1649.16	1631.07
49	1669.27	1654.81	1682.52	1636.11	1644.93	1663.00	1651.04	1615.39	1672.29	1638.57
50	1649.97	1636.97	1650.02	1628.43	1624.23	1644.17	1626.44	1647.83	1669.42	1647.63
51	1613.03	1604.14	1615.15	1621.42	1599.12	1632.57	1607.33	1674.32	1646.20	1635.14
52	1601.84	1583.95	1594.92	1625.78	1600.84	1645.12	1610.43	1680.40	1638.09	1619.33
53	1610.28	1617.88	1617.35	1651.56	1618.10	1654.45	1614.34	1678.97	1672.92	1617.61
54	1610.14	1659.90	1642.53	1671.27	1618.70	1661.83	1597.51	1684.56	1703.58	1634.17
55	1598.73	1671.64	1653.58	1675.14	1599.03	1685.72	1589.29	1697.82	1671.60	1649.14
56	1594.66	1677.17	1640.79	1663.76	1596.23	1681.82	1594.94	1714.47	1623.93	1629.23
57	1594.77	1654.67	1618.51	1634.67	1609.77	1622.40	1585.29	1686.70	1630.74	1578.49
58	1576.81	1567.85	1564.80	1586.44	1594.99	1581.90	1569.24	1620.11	1629.55	1568.20
59	1567.77	1542.14	1525.65	1585.98	1597.30	1573.75	1587.21	1580.30	1581.36	1615.72
60	1600.60	1566.92	1488.05	1606.40	1591.01	1542.29	1597.08	1552.12	1518.18	1633.02
61	1571.64	1555.25	1460.33	1584.88	1530.25	1540.02	1566.86	1510.24	1474.69	1619.23
62	1485.94	1514.89	1453.42	1518.93	1491.02	1528.23	1521.40	1466.52	1474.58	1609.00
63	1473.70	1427.28	1416.34	1442.12	1479.20	1491.80	1450.62	1382.98	1394.87	1554.04
64	1445.75	1389.36	1387.87	1401.05	1468.09	1438.40	1416.58	1321.95	1331.05	1449.53
65	1418.89	1404.77	1358.51	1406.26	1403.79	1379.49	1386.06	1294.20	1322.86	1372.63
66	1381.00	1384.49	1333.02	1336.17	1376.73	1334.14	1383.03	1273.11	1303.19	1325.22
67	1362.39	1297.77	1266.02	1255.23	1364.10	1299.28	1327.05	1271.20	1287.29	1315.43
68	1312.23	1271.33	1236.96	1232.93	1310.51	1246.73	1273.16	1219.53	1232.34	1279.43
69	1195.42	1208.03	1212.03	1244.19	1194.14	1204.14	1228.68	1192.64	1237.06	1233.86
70	1157.29	1221.56	1222.32	1241.62	1141.36	1152.27	1178.75	1193.49	1197.75	1208.08
71	1144.69	1183.08	1213.15	1208.82	1144.08	1191.15	1161.61	1198.89	1204.92	1179.52
72	1130.46	1138.09	1175.29	1145.45	1127.84	1109.78	1081.01	1142.37	1089.37	1125.01
73	1067.96	1124.42	1130.03	1105.64	1094.13	997.60	1058.62	1105.57	1158.94	1083.37
74	1038.64	1078.49	1073.24	1037.08	1055.55	1045.06	1061.22	1110.13	1119.42	1077.58
75	1046.00	1016.00	1034.04	1002.06	1088.77	1050.69	1153.31	1169.60	1153.02	1107.00
76	1141.90	1077.44	1052.91	1023.83	1144.35	1141.99	1173.73	1217.25	1133.17	1085.64
77	1126.40	1024.32	1008.09	1046.13	1144.78	1141.08	1163.17	1105.03	1125.82	1065.22
78	1056.44	995.63	986.95	997.40	1065.58	1091.16	1135.16	1048.28	1030.06	1013.51
79	1034.58	932.14	988.75	942.90	958.56	1004.87	953.09	891.84	922.86	869.27
80	887.60	843.75	927.12	854.12	828.98	847.11	786.70	758.63	810.99	804.07
81	734.74	733.20	820.70	729.24	658.55	661.90	636.99	659.27	675.20	701.70
82	609.40	636.91	657.57	591.35	561.25	521.48	511.87	561.20	551.26	595.94
83	519.78	517.87	509.64	459.92	430.71	357.92	399.66	332.62	314.13	458.22
84	407.24	359.29	398.57	330.75	341.32	262.86	287.44	224.08	216.44	320.17
85	294.69	249.48	287.51	220.74	251.93	187.67	175.80	183.71	178.92	182.12
86	183.58	178.48	178.49	168.92	163.56	143.25	146.80	141.20	138.14	150.41
87	139.60	133.50	137.10	134.38	123.29	114.21	117.60	110.62	111.35	118.70
88	112.30	103.91	108.99	107.59	97.16	88.49	87.00	83.98	84.97	90.79
89	83.02	81.12	76.08	80.86	71.41	62.76	57.97	57.39	58.59	64.46
90	65.65	58.55	60.84	54.12	48.84	37.03	28.94	30.80	35.52	43.05
91	44.15	39.74	40.89	31.64	26.28	9.37	0.16	20.50	23.52	21.63
92	22.66	14.46	20.95	7.61	3.72	4.40	0.02	10.30	11.77	0.22

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CANDELA TABULATION - (Cont.)

93	1.40	9.53	1.22	3.55	0.07	0.13	0.63	0.10	0.02	0.00
94	0.12	4.88	0.04	0.15	0.11	0.08	11.99	21.23	7.81	4.02
95	0.19	0.23	0.07	0.16	0.17	0.40	15.15	18.44	15.63	12.67
96	0.27	0.29	0.11	0.24	0.26	2.00	9.91	13.12	23.46	10.10
97	0.38	0.41	0.22	0.35	0.67	1.70	6.08	8.26	16.14	6.38
98	1.07	1.57	4.00	4.26	5.74	0.64	4.02	4.89	10.43	4.09
99	4.79	26.91	8.44	29.88	10.80	0.63	2.19	3.01	7.50	2.87
100	8.51	52.33	37.11	56.13	15.87	0.77	0.36	1.52	4.65	2.00
101	12.29	77.75	76.11	82.38	22.83	0.98	0.30	0.26	1.44	0.49
102	19.58	84.15	92.88	84.41	31.69	1.28	0.38	0.07	0.07	0.08
103	27.06	82.85	92.78	82.11	38.70	2.03	0.39	0.07	0.03	0.08
104	32.87	78.25	89.14	77.38	41.89	3.80	0.41	0.07	0.04	0.08
105	36.50	74.26	84.21	73.78	43.69	5.19	0.46	0.07	0.04	0.08
106	38.12	69.28	77.91	68.62	42.72	6.55	0.55	0.06	0.04	0.08
107	36.26	64.99	71.35	63.99	39.60	6.52	0.64	0.06	0.04	0.08
108	33.33	59.47	65.72	58.69	35.28	6.88	0.76	0.06	0.05	0.08
109	29.46	53.17	58.12	52.53	31.52	6.52	0.84	0.06	0.05	0.09
110	25.93	47.74	52.57	47.84	27.51	6.23	0.93	0.06	0.04	0.09
111	23.32	40.99	46.70	41.59	25.09	5.76	1.03	0.06	0.03	0.08
112	20.72	36.85	40.30	37.49	22.68	5.21	1.10	0.06	0.04	0.08
113	18.12	33.64	37.03	33.63	20.28	5.05	1.09	0.06	0.03	0.07
114	17.19	30.46	32.55	30.89	19.12	4.83	1.07	0.06	0.03	0.07
115	16.20	28.20	29.51	28.22	18.04	4.48	1.02	0.05	0.02	0.07
116	14.63	25.66	25.94	25.16	16.71	3.96	0.94	0.04	0.00	0.05
117	13.15	23.67	22.80	23.67	15.71	3.79	0.80	0.03	0.00	0.05
118	12.93	22.55	21.08	22.70	15.48	3.64	0.61	0.03	0.00	0.05
119	13.21	22.45	19.17	22.64	16.78	3.41	0.44	0.03	0.01	0.04
120	15.52	23.41	17.76	23.17	19.24	3.18	0.22	0.02	0.02	0.05
121	18.58	25.46	17.71	24.01	21.27	2.96	0.10	0.01	0.02	0.05
122	17.03	24.86	18.20	24.36	17.25	2.75	0.04	0.01	0.02	0.05
123	13.52	22.57	18.14	21.59	13.82	2.50	0.03	0.01	0.02	0.05
124	9.88	19.97	19.05	19.16	10.30	2.29	0.02	0.01	0.03	0.05
125	7.13	18.89	24.80	20.16	7.43	2.05	0.03	0.00	0.03	0.05
126	5.78	17.38	33.72	18.94	6.27	1.82	0.03	0.00	0.02	0.04
127	5.34	15.11	28.35	16.22	5.76	1.57	0.03	0.00	0.00	0.03
128	4.98	12.65	22.99	13.78	5.36	1.35	0.03	0.00	0.00	0.03
129	4.61	10.93	17.62	11.75	4.94	1.03	0.02	0.00	0.00	0.04
130	4.20	9.21	13.40	9.73	4.49	0.58	0.02	0.00	0.00	0.04
131	3.76	7.49	10.23	7.70	3.96	0.13	0.02	0.01	0.00	0.04
132	3.27	6.89	8.99	7.05	3.43	0.08	0.03	0.01	0.01	0.03
133	2.78	6.10	8.11	6.18	2.93	0.11	0.03	0.01	0.01	0.02
134	2.29	5.27	7.10	5.40	2.46	0.16	0.03	0.01	0.01	0.02
135	1.68	4.56	6.11	4.71	1.84	0.18	0.04	0.02	0.01	0.01
136	0.76	3.82	5.42	3.96	0.95	0.19	0.04	0.03	0.01	0.01
137	0.20	3.12	4.38	3.25	0.22	0.18	0.04	0.03	0.01	0.01
138	0.19	2.21	3.62	2.31	0.16	0.17	0.04	0.03	0.01	0.02
139	0.18	0.91	2.69	0.98	0.15	0.16	0.05	0.04	0.01	0.02
140	0.17	0.21	1.23	0.18	0.15	0.16	0.09	0.04	0.01	0.01
141	0.17	0.18	0.25	0.13	0.14	0.15	0.11	0.04	0.00	0.00
142	0.15	0.17	0.15	0.12	0.13	0.13	0.12	0.04	0.00	0.00
143	0.14	0.16	0.14	0.12	0.11	0.14	0.13	0.10	0.00	0.01
144	0.13	0.16	0.14	0.12	0.11	0.13	0.14	0.13	0.05	0.09
145	0.13	0.13	0.13	0.10	0.11	0.13	0.14	0.15	0.07	0.11
146	0.13	0.12	0.11	0.10	0.11	0.13	0.13	0.15	0.08	0.12
147	0.12	0.12	0.11	0.10	0.11	0.12	0.12	0.15	0.08	0.11
148	0.12	0.12	0.11	0.09	0.13	0.11	0.12	0.14	0.08	0.11

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CANDELA TABULATION - (Cont.)

149	0.11	0.12	0.11	0.09	0.13	0.11	0.12	0.12	0.07	0.10
150	0.12	0.11	0.11	0.10	0.12	0.11	0.12	0.11	0.06	0.09
151	0.12	0.10	0.11	0.10	0.12	0.11	0.12	0.11	0.05	0.09
152	0.12	0.10	0.11	0.10	0.12	0.12	0.13	0.11	0.05	0.09
153	0.13	0.10	0.12	0.11	0.11	0.12	0.12	0.11	0.04	0.08
154	0.11	0.10	0.11	0.11	0.11	0.12	0.11	0.11	0.04	0.08
155	0.10	0.10	0.10	0.10	0.11	0.12	0.10	0.10	0.05	0.08
156	0.09	0.10	0.10	0.10	0.11	0.12	0.09	0.10	0.05	0.08
157	0.09	0.11	0.09	0.10	0.11	0.12	0.09	0.09	0.05	0.07
158	0.08	0.10	0.10	0.10	0.11	0.11	0.09	0.10	0.05	0.07
159	0.08	0.11	0.10	0.10	0.11	0.11	0.09	0.10	0.05	0.07
160	0.07	0.11	0.10	0.11	0.11	0.11	0.09	0.10	0.04	0.06
161	0.07	0.11	0.11	0.12	0.11	0.11	0.08	0.09	0.04	0.06
162	0.09	0.10	0.10	0.12	0.11	0.10	0.09	0.09	0.04	0.06
163	0.10	0.10	0.09	0.12	0.09	0.10	0.09	0.09	0.04	0.05
164	0.10	0.10	0.09	0.11	0.08	0.10	0.10	0.09	0.04	0.05
165	0.10	0.10	0.09	0.11	0.09	0.10	0.10	0.09	0.04	0.05
166	0.10	0.10	0.09	0.11	0.10	0.09	0.10	0.09	0.04	0.05
167	0.10	0.10	0.09	0.10	0.10	0.10	0.10	0.09	0.04	0.05
168	0.10	0.10	0.09	0.10	0.10	0.09	0.10	0.09	0.04	0.05
169	0.10	0.09	0.09	0.10	0.10	0.08	0.09	0.08	0.04	0.04
170	0.10	0.09	0.08	0.10	0.10	0.07	0.09	0.08	0.03	0.04
171	0.10	0.09	0.08	0.10	0.10	0.07	0.08	0.07	0.02	0.02
172	0.09	0.08	0.08	0.09	0.09	0.06	0.05	0.06	0.01	0.00
173	0.08	0.08	0.07	0.08	0.07	0.05	0.03	0.05	0.00	0.00
174	0.07	0.07	0.06	0.07	0.05	0.04	0.02	0.03	0.00	0.00
175	0.06	0.06	0.05	0.05	0.03	0.03	0.01	0.02	0.00	0.00
176	0.05	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00
177	0.03	0.02	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00
178	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	1446.25	1446.25	1446.25	1446.25	1446.25
1	1445.22	1446.48	1446.38	1446.09	1445.34
2	1441.77	1443.39	1443.13	1442.98	1443.68
3	1436.79	1439.49	1439.36	1441.19	1442.43
4	1432.28	1435.13	1436.92	1440.05	1441.36
5	1427.34	1431.02	1432.69	1437.34	1438.36
6	1425.78	1427.28	1427.86	1432.85	1434.85
7	1423.25	1426.75	1426.90	1428.97	1431.48
8	1424.06	1427.05	1430.37	1429.02	1432.04
9	1427.79	1429.97	1439.11	1436.21	1438.36
10	1440.90	1440.58	1459.81	1455.23	1453.66
11	1466.38	1461.59	1493.50	1474.36	1481.66
12	1502.18	1489.73	1530.15	1502.08	1517.66
13	1542.52	1518.00	1568.40	1532.09	1551.25
14	1580.07	1542.13	1598.96	1556.92	1579.07
15	1609.15	1563.12	1620.80	1577.73	1593.42
16	1632.11	1586.39	1647.68	1597.07	1607.64
17	1647.92	1612.16	1668.10	1613.83	1619.54
18	1649.38	1628.43	1671.56	1619.52	1615.30
19	1635.05	1627.93	1650.98	1613.97	1604.88

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CANDELA TABULATION - (Cont.)

20	1616.28	1616.34	1618.13	1596.25	1590.31
21	1603.63	1604.76	1593.51	1577.79	1577.62
22	1602.23	1599.61	1595.93	1566.26	1581.59
23	1618.33	1613.71	1614.63	1563.65	1589.55
24	1652.82	1635.71	1636.30	1567.95	1602.57
25	1686.16	1682.75	1661.93	1599.18	1633.79
26	1712.15	1721.36	1690.12	1614.03	1660.20
27	1740.53	1768.03	1739.47	1642.74	1686.54
28	1760.52	1811.72	1779.80	1672.60	1700.59
29	1780.56	1834.61	1798.59	1706.63	1708.63
30	1776.03	1833.61	1771.53	1731.44	1700.07
31	1744.88	1791.14	1718.61	1729.99	1679.45
32	1714.29	1724.45	1684.28	1717.30	1672.22
33	1686.48	1673.98	1682.37	1709.27	1672.13
34	1661.73	1649.67	1694.73	1715.44	1672.58
35	1646.77	1640.37	1694.19	1721.05	1679.83
36	1654.72	1646.97	1667.25	1735.36	1686.82
37	1684.75	1672.29	1649.05	1752.13	1713.53
38	1718.84	1732.31	1687.41	1754.69	1730.92
39	1725.33	1778.90	1745.81	1734.60	1728.73
40	1704.31	1763.64	1766.53	1688.55	1712.79
41	1674.60	1705.69	1722.68	1667.95	1675.11
42	1653.09	1666.22	1654.70	1659.58	1640.60
43	1643.94	1656.19	1619.00	1671.76	1622.95
44	1648.77	1646.03	1619.52	1660.30	1619.82
45	1657.02	1632.52	1626.39	1625.68	1623.31
46	1659.84	1639.30	1640.21	1602.02	1626.11
47	1650.13	1669.83	1667.41	1632.46	1641.78
48	1631.08	1687.48	1699.87	1684.02	1665.62
49	1614.29	1690.03	1703.89	1709.47	1669.81
50	1606.07	1675.57	1662.33	1671.43	1653.46
51	1610.68	1653.04	1619.82	1629.66	1626.29
52	1614.56	1636.46	1626.11	1622.12	1626.60
53	1622.31	1631.97	1669.13	1659.35	1661.83
54	1635.69	1643.47	1668.57	1682.09	1684.50
55	1635.43	1665.62	1639.16	1680.50	1675.41
56	1630.46	1654.07	1615.08	1665.59	1635.19
57	1601.10	1591.31	1557.11	1626.61	1606.43
58	1569.80	1520.32	1516.70	1555.17	1586.58
59	1533.01	1474.09	1531.76	1489.32	1588.27
60	1504.66	1457.19	1538.55	1461.31	1579.24
61	1487.12	1438.62	1492.22	1472.20	1544.36
62	1461.54	1423.79	1466.66	1456.92	1514.30
63	1471.33	1398.29	1441.68	1443.23	1482.08
64	1416.83	1378.62	1388.84	1440.48	1459.46
65	1324.34	1352.24	1395.49	1404.64	1439.54
66	1289.79	1323.34	1364.05	1337.67	1359.02
67	1236.77	1274.24	1262.09	1307.22	1279.95
68	1220.94	1254.90	1192.04	1262.83	1270.67
69	1197.65	1201.76	1200.83	1230.59	1252.87
70	1142.02	1167.89	1222.23	1198.48	1225.80
71	1140.39	1125.95	1166.74	1162.11	1209.35
72	1096.68	1055.77	1076.23	1172.63	1141.70
73	1054.43	1058.95	1075.49	1154.21	1166.89
74	1078.93	1036.33	1081.38	1131.99	1100.50
75	1132.32	1082.05	1141.49	1072.95	1047.57

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CANDELA TABULATION - (Cont.)

76	1190.96	1160.84	1167.16	1096.18	1085.77
77	1160.50	1151.77	1163.12	1046.56	984.74
78	1044.37	1141.35	1086.25	984.97	983.44
79	894.79	1065.17	953.71	956.18	976.37
80	739.85	880.94	795.37	844.81	862.05
81	607.35	702.96	634.78	760.64	775.73
82	516.07	562.43	542.95	642.28	629.99
83	381.07	439.73	426.65	509.30	445.70
84	215.24	317.03	301.22	399.86	345.65
85	190.32	194.33	201.13	290.42	219.21
86	142.04	146.71	158.06	182.47	171.57
87	111.09	132.39	122.96	136.04	127.00
88	87.65	89.82	98.20	108.78	101.71
89	64.27	73.41	73.74	78.56	77.09
90	40.89	49.15	49.28	60.56	52.47
91	2.37	24.86	22.64	40.32	31.18
92	0.73	0.77	15.14	20.08	8.36
93	0.02	0.00	7.69	0.08	4.21
94	11.90	0.03	0.23	0.08	0.11
95	15.59	0.17	0.18	0.15	0.03
96	9.81	1.71	0.31	0.29	0.09
97	6.21	2.24	1.18	2.93	0.23
98	4.22	1.18	2.06	5.62	6.05
99	2.21	0.76	5.47	30.12	34.30
100	0.43	0.89	9.38	68.27	63.14
101	0.32	1.11	16.22	81.76	91.97
102	0.35	1.26	23.11	83.88	95.01
103	0.36	1.78	30.00	83.14	94.03
104	0.38	2.31	34.39	78.78	89.74
105	0.44	3.58	35.93	74.62	83.96
106	0.51	4.56	35.23	69.29	77.38
107	0.57	5.27	33.26	64.01	71.50
108	0.63	5.72	30.81	58.85	64.45
109	0.68	5.61	27.10	52.53	57.59
110	0.77	5.54	24.07	47.24	51.77
111	0.88	5.22	21.46	41.68	45.05
112	0.94	4.97	19.57	37.57	39.71
113	0.96	4.85	18.24	34.82	36.14
114	0.90	4.73	17.44	32.48	33.11
115	0.86	4.34	16.47	29.67	30.16
116	0.78	3.87	15.53	27.04	27.24
117	0.62	3.71	15.14	26.35	24.88
118	0.46	3.62	15.87	26.12	23.30
119	0.30	3.51	16.68	25.79	21.51
120	0.17	3.33	18.41	26.40	19.77
121	0.10	3.14	20.18	28.32	19.85
122	0.09	2.91	15.54	27.08	19.97
123	0.09	2.70	13.04	23.64	20.36
124	0.08	2.50	10.92	24.83	26.05
125	0.09	2.30	8.80	22.88	38.00
126	0.09	2.06	6.67	20.92	36.72
127	0.09	1.81	6.22	18.96	29.36
128	0.08	1.58	5.80	16.03	27.46
129	0.08	1.33	5.37	13.10	22.91
130	0.07	0.96	4.92	9.70	15.88
131	0.06	0.33	4.47	8.63	13.54

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CANDELA TABULATION - (Cont.)

132	0.06	0.11	3.98	8.02	11.34
133	0.06	0.11	3.51	7.38	9.14
134	0.05	0.13	2.99	6.66	8.36
135	0.05	0.19	2.44	5.94	7.67
136	0.05	0.21	1.77	5.32	7.06
137	0.05	0.22	0.76	4.43	6.16
138	0.05	0.21	0.23	3.71	4.83
139	0.05	0.19	0.20	2.83	3.99
140	0.07	0.18	0.19	1.67	3.15
141	0.09	0.17	0.18	0.51	1.83
142	0.11	0.16	0.17	0.16	0.55
143	0.12	0.17	0.16	0.15	0.15
144	0.13	0.16	0.14	0.14	0.14
145	0.13	0.15	0.13	0.14	0.14
146	0.12	0.13	0.12	0.13	0.13
147	0.11	0.12	0.12	0.13	0.13
148	0.11	0.11	0.13	0.11	0.11
149	0.10	0.10	0.13	0.11	0.11
150	0.10	0.10	0.12	0.11	0.10
151	0.10	0.09	0.11	0.12	0.11
152	0.10	0.09	0.10	0.11	0.10
153	0.09	0.09	0.09	0.11	0.10
154	0.09	0.09	0.09	0.09	0.09
155	0.07	0.09	0.08	0.08	0.08
156	0.06	0.08	0.07	0.07	0.07
157	0.05	0.08	0.07	0.06	0.06
158	0.05	0.08	0.07	0.06	0.05
159	0.05	0.07	0.07	0.06	0.05
160	0.05	0.07	0.07	0.05	0.05
161	0.04	0.07	0.07	0.05	0.05
162	0.05	0.05	0.07	0.05	0.05
163	0.06	0.05	0.07	0.06	0.04
164	0.06	0.04	0.06	0.05	0.04
165	0.07	0.04	0.05	0.05	0.04
166	0.07	0.04	0.04	0.04	0.04
167	0.07	0.04	0.03	0.04	0.03
168	0.06	0.04	0.03	0.04	0.03
169	0.06	0.05	0.03	0.04	0.03
170	0.06	0.05	0.03	0.03	0.03
171	0.05	0.04	0.03	0.03	0.02
172	0.02	0.03	0.03	0.03	0.02
173	0.00	0.01	0.02	0.03	0.02
174	0.00	0.00	0.00	0.02	0.01
175	0.00	0.00	0.00	0.01	0.00
176	0.00	0.00	0.00	0.01	0.02
177	0.00	0.00	0.00	0.00	0.02
178	0.00	0.00	0.00	0.00	0.00
179	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	583.84	7.20	7.20
0-30	1356.03	16.80	16.80
0-40	2418.43	30.00	30.00
0-60	5141.57	63.80	63.80
0-80	7644.53	94.80	94.80
0-90	8002.99	99.30	99.30
10-90	7866.02	97.60	97.60
20-40	1834.58	22.80	22.80
20-50	3113.55	38.60	38.60
40-70	4084.00	50.70	50.70
60-80	2502.96	31.00	31.00
70-80	1142.11	14.20	14.20
80-90	358.45	4.40	4.40
90-110	38.37	0.50	0.50
90-120	50.18	0.60	0.60
90-130	57.00	0.70	0.70
90-150	58.63	0.70	0.70
90-180	58.71	0.70	0.70
110-180	20.33	0.30	0.30
0-180	8061.7	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.97
10-20	446.87
20-30	772.19
30-40	1062.4
40-50	1278.96
50-60	1444.18
60-70	1360.85
70-80	1142.11
80-90	358.45
90-100	12.44
100-110	25.93
110-120	11.81
120-130	6.82
130-140	1.53
140-150	0.10
150-160	0.05
160-170	0.02
170-180	0.00

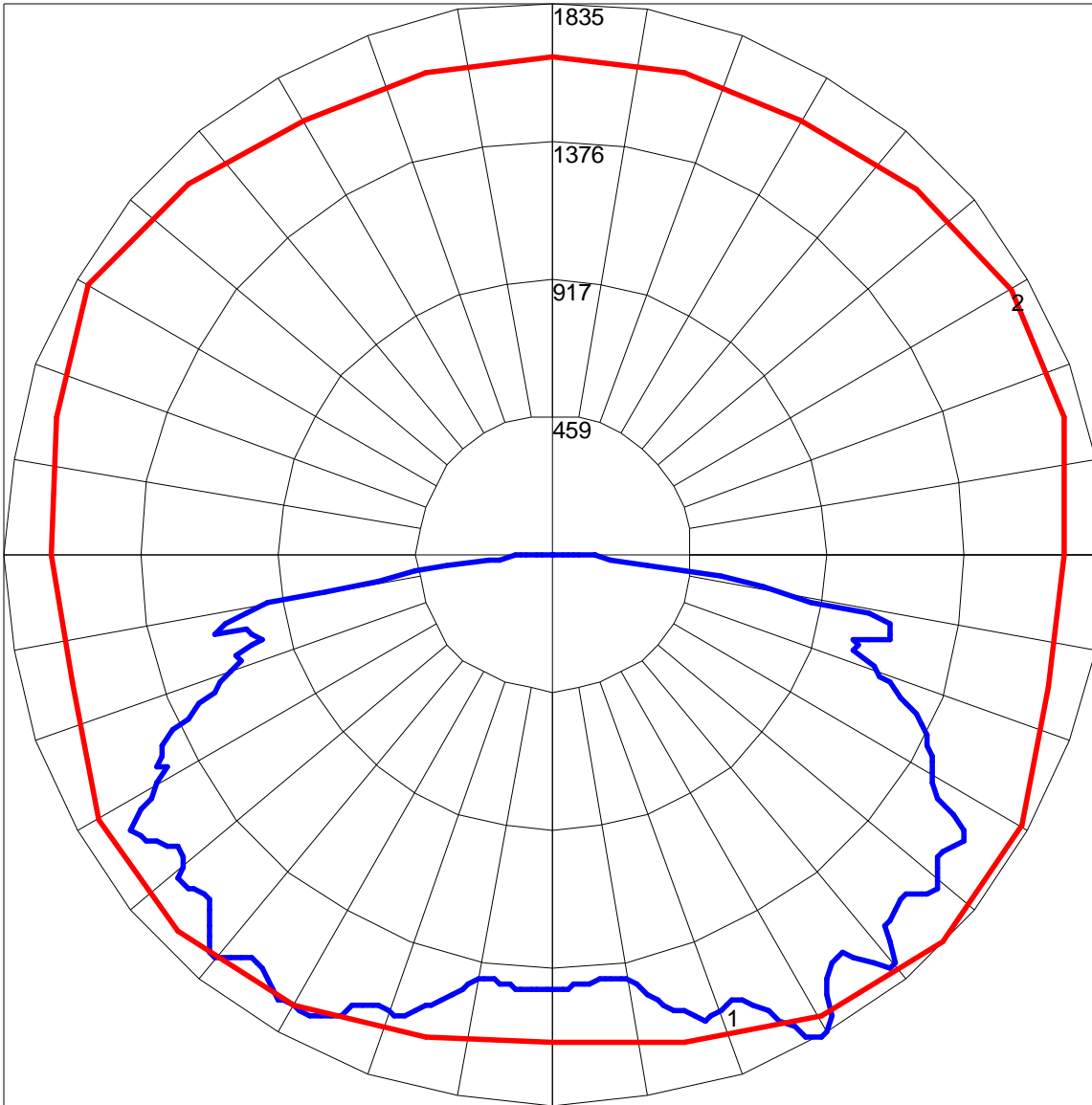
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	106	99	94	89	103	97	92	88	93	88	85	88	85	82	85	82	79	77
2	94	84	75	68	91	82	74	68	78	71	66	74	69	64	71	67	62	60
3	84	72	62	54	81	70	61	54	67	59	53	64	57	51	61	55	50	48
4	76	62	52	44	74	61	51	44	58	50	43	55	48	42	53	47	42	39
5	69	55	44	37	67	53	44	37	51	43	36	49	41	36	47	40	35	33
6	64	49	39	31	61	48	38	31	46	37	31	44	36	30	42	35	30	28
7	59	44	34	27	57	43	33	27	41	33	27	39	32	26	38	31	26	24
8	54	39	30	24	53	39	30	24	37	29	23	36	28	23	34	28	23	21
9	50	36	27	21	49	35	27	21	34	26	21	33	26	20	32	25	20	18
10	47	33	24	19	46	32	24	19	31	24	18	30	23	18	29	23	18	16

POLAR GRAPH



Maximum Candela = 1834.61 Located At Horizontal Angle = 315, Vertical Angle = 29
1 - Vertical Plane Through Horizontal Angles (315 - 135) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (29) (Through Max. Cd.)