



IES INDOOR REPORT

PHOTOMETRIC FILENAME : CPYSA10LED60DMVBZ40-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 09:56:20

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000_V2 SYSTEM

[MANUFAC] MOBERN LIGHTING CO

[LUMCAT] CPYSA10LED60DMVBZ40-NVLAP-IES

[LUMINAIRE] LED

[BALLAST] 120-277Vac 50/60Hz

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER]	0- 10	132.06	132.06	1.68	1.68
[OTHER]	10- 20	430.58	562.64	7.16	7.16
[OTHER]	20- 30	748.33	1310.97	16.68	16.68
[OTHER]	30- 40	1029.73	2340.70	29.78	29.78
[OTHER]	40- 50	1243.87	3584.57	45.60	45.60
[OTHER]	50- 60	1412.79	4997.36	63.57	63.57
[OTHER]	60- 70	1337.63	6334.99	80.59	80.59
[OTHER]	70- 80	1121.74	7456.74	94.86	94.86
[OTHER]	80- 90	346.73	7803.46	99.27	99.27
[OTHER]	90-100	12.25	7815.71	99.42	99.42
[OTHER]	100-110	25.33	7841.04	99.75	99.75
[OTHER]	110-120	11.58	7852.62	99.89	99.89
[OTHER]	120-130	6.66	7859.28	99.98	99.98
[OTHER]	130-140	1.48	7860.76	100.00	100.00
[OTHER]	140-150	0.10	7860.86	100.00	100.00
[OTHER]	150-160	0.05	7860.91	100.00	100.00
[OTHER]	160-170	0.02	7860.93	100.00	100.00
[OTHER]	170-180	0.00	7860.93	100.00	100.00
[OTHER]					

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CHARACTERISTICS

Lumens Per Lamp	7860.9 (1 lamp)
Total Lamp Lumens	7860.9
Luminaire Lumens	7861
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	60.12
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.76
Spacing Criterion (90-270)	1.76
Spacing Criterion (Diagonal)	1.88
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	50780	51086	51610
55	65714	60970	61490
65	77751	73735	68592
75	90366	88175	90578
85	56675	70889	74655

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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	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20
1	1393.27	1392.89	1393.98	1394.48	1394.44	1393.73	1393.03	1392.69	1390.84	1391.06
2	1391.84	1392.76	1394.26	1396.05	1397.48	1397.07	1394.50	1392.46	1390.43	1390.07
3	1389.70	1390.77	1391.99	1395.58	1396.90	1397.28	1395.01	1391.72	1390.57	1391.27
4	1389.44	1388.49	1389.31	1392.73	1394.31	1394.82	1393.37	1391.00	1392.06	1394.08
5	1386.03	1386.34	1388.87	1391.19	1390.96	1392.07	1389.98	1389.51	1392.61	1395.33
6	1383.33	1383.34	1386.21	1387.78	1386.73	1389.21	1387.30	1387.43	1389.90	1388.51
7	1379.98	1379.60	1383.56	1381.24	1382.05	1386.42	1386.29	1385.86	1386.80	1381.93
8	1378.81	1377.33	1379.99	1377.29	1380.20	1385.23	1384.90	1384.85	1383.94	1379.19
9	1381.23	1378.79	1377.77	1375.01	1379.18	1383.89	1385.32	1385.18	1384.37	1380.20
10	1391.14	1385.83	1382.18	1377.26	1379.20	1380.92	1382.03	1382.79	1386.61	1387.98
11	1410.56	1402.73	1395.78	1384.20	1383.66	1378.65	1377.50	1382.79	1392.33	1404.04
12	1440.34	1429.78	1418.31	1399.66	1396.05	1380.48	1380.05	1388.27	1408.33	1431.00
13	1474.29	1462.00	1446.71	1425.11	1420.32	1391.82	1395.87	1403.62	1434.21	1461.41
14	1505.48	1492.46	1472.83	1452.11	1449.98	1416.29	1430.23	1427.67	1466.97	1487.38
15	1527.57	1516.55	1490.34	1475.61	1481.44	1449.16	1473.56	1460.46	1498.93	1505.47
16	1542.47	1537.02	1502.46	1495.81	1515.98	1480.31	1509.07	1491.70	1528.87	1523.25
17	1564.30	1566.13	1514.28	1516.05	1550.87	1506.58	1529.44	1519.39	1561.30	1546.88
18	1574.50	1588.41	1529.44	1537.94	1587.71	1528.96	1537.77	1545.83	1602.40	1571.35
19	1573.78	1605.75	1540.39	1555.74	1613.63	1551.38	1541.62	1570.54	1639.91	1584.11
20	1560.96	1604.82	1542.72	1562.49	1621.62	1576.70	1550.71	1596.79	1658.80	1573.72
21	1542.07	1576.88	1532.70	1556.73	1607.69	1595.97	1568.29	1615.02	1647.06	1558.90
22	1528.59	1551.84	1522.00	1547.92	1584.37	1606.49	1585.91	1619.02	1616.80	1554.72
23	1533.43	1545.46	1525.80	1541.88	1557.82	1602.76	1598.00	1608.14	1581.41	1565.72
24	1553.27	1560.43	1551.32	1548.90	1539.77	1586.78	1601.54	1589.79	1561.11	1586.39
25	1601.44	1615.63	1602.95	1570.53	1531.46	1565.96	1593.43	1581.18	1560.55	1614.57
26	1638.43	1669.24	1649.81	1608.70	1556.78	1561.06	1596.53	1581.69	1575.05	1628.51
27	1674.39	1719.78	1674.39	1619.19	1586.54	1575.13	1600.15	1594.70	1589.25	1651.14
28	1691.02	1741.43	1690.43	1624.94	1604.83	1592.25	1606.40	1588.83	1598.17	1660.95
29	1693.23	1739.46	1681.02	1630.72	1596.46	1596.70	1585.99	1575.47	1598.54	1659.58
30	1679.42	1711.75	1676.77	1638.23	1590.81	1591.27	1559.73	1564.94	1612.97	1660.57
31	1657.85	1667.95	1667.76	1645.75	1602.22	1592.95	1549.94	1571.72	1625.62	1661.38
32	1638.05	1622.21	1655.56	1646.21	1614.73	1597.02	1548.19	1579.11	1633.67	1664.32
33	1623.09	1584.90	1630.03	1641.82	1629.73	1603.67	1543.52	1582.01	1641.08	1656.51
34	1610.56	1566.87	1605.45	1633.24	1644.15	1601.28	1530.84	1579.60	1649.05	1636.71
35	1610.11	1576.04	1597.18	1634.49	1653.94	1600.77	1511.98	1583.24	1660.89	1619.37
36	1619.97	1600.46	1615.04	1637.33	1664.43	1604.67	1505.56	1592.87	1665.18	1617.09
37	1647.16	1625.77	1652.02	1640.27	1667.17	1611.31	1522.36	1599.15	1663.63	1622.92
38	1673.32	1644.78	1676.53	1636.09	1658.90	1609.41	1555.06	1599.43	1650.20	1635.77
39	1684.97	1653.83	1685.42	1637.79	1635.46	1605.55	1594.01	1593.88	1637.41	1658.05
40	1681.77	1663.09	1674.76	1648.21	1614.65	1599.58	1622.02	1595.78	1622.11	1679.60
41	1658.66	1655.55	1658.86	1659.38	1608.82	1605.10	1621.11	1602.22	1612.71	1681.25
42	1619.01	1626.19	1632.27	1653.36	1609.80	1602.45	1596.90	1595.35	1612.85	1657.23
43	1583.73	1586.05	1589.69	1622.59	1608.88	1584.70	1568.56	1572.05	1607.13	1622.27
44	1571.79	1554.67	1549.54	1592.45	1590.93	1565.61	1569.25	1560.08	1589.85	1596.09
45	1569.79	1545.75	1537.81	1579.27	1560.75	1563.05	1595.45	1569.50	1568.64	1578.76
46	1578.28	1562.73	1558.98	1571.59	1543.81	1571.19	1621.83	1582.49	1558.71	1572.04
47	1588.94	1577.60	1591.34	1560.59	1543.55	1574.03	1623.15	1582.91	1561.88	1577.54
48	1604.75	1588.96	1597.66	1557.99	1567.40	1561.45	1591.10	1568.11	1579.93	1590.21
49	1611.03	1590.58	1576.46	1577.02	1588.79	1548.19	1561.15	1550.61	1596.02	1591.29
50	1610.65	1587.28	1561.27	1576.80	1588.39	1542.78	1561.36	1544.93	1579.19	1568.21
51	1597.94	1573.76	1555.14	1553.04	1563.42	1549.18	1571.36	1557.96	1559.11	1547.94
52	1596.68	1549.32	1563.09	1535.21	1538.85	1553.74	1560.72	1561.60	1549.35	1550.84
53	1617.03	1530.27	1586.06	1529.33	1547.20	1541.51	1530.27	1563.78	1546.59	1570.09

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54	1646.32	1529.02	1605.87	1536.59	1570.02	1540.83	1516.05	1581.78	1554.14	1593.29
55	1647.83	1536.08	1602.02	1528.87	1577.13	1552.58	1541.91	1602.27	1551.04	1610.91
56	1608.63	1527.18	1574.60	1529.91	1551.14	1571.56	1577.90	1605.72	1528.66	1629.78
57	1573.85	1515.16	1537.14	1540.42	1530.60	1597.17	1568.84	1596.66	1521.44	1634.89
58	1553.83	1508.53	1501.83	1530.50	1521.57	1610.14	1547.62	1589.42	1540.98	1571.08
59	1568.61	1503.69	1468.23	1500.26	1502.67	1554.36	1554.16	1549.39	1541.06	1538.09
60	1582.82	1536.78	1467.22	1506.77	1494.03	1495.31	1539.19	1537.62	1529.85	1522.86
61	1551.66	1544.76	1474.94	1499.55	1496.78	1477.21	1489.55	1547.69	1539.21	1467.84
62	1511.64	1503.31	1447.91	1485.84	1465.45	1435.16	1395.81	1512.88	1499.37	1489.05
63	1469.88	1467.33	1416.78	1471.36	1433.39	1408.55	1348.73	1479.52	1449.77	1464.26
64	1442.16	1422.18	1396.06	1405.47	1391.44	1378.69	1331.80	1382.99	1414.19	1437.93
65	1436.54	1389.73	1365.91	1362.34	1367.32	1323.30	1267.32	1282.41	1364.59	1362.36
66	1370.77	1357.66	1305.09	1306.67	1341.16	1272.89	1214.86	1253.16	1306.48	1295.38
67	1277.93	1279.61	1249.48	1299.20	1296.36	1220.74	1204.62	1241.33	1285.57	1268.93
68	1251.63	1203.96	1197.69	1250.98	1218.76	1199.47	1205.73	1212.70	1290.28	1202.26
69	1230.51	1153.94	1200.65	1212.76	1166.55	1170.28	1182.04	1183.81	1219.12	1160.25
70	1216.97	1174.86	1188.91	1167.75	1136.03	1136.72	1141.15	1144.79	1172.29	1134.11
71	1197.82	1168.11	1130.47	1149.53	1146.57	1131.97	1155.77	1153.73	1119.36	1100.85
72	1123.76	1138.50	1096.98	1098.19	1084.19	1122.53	1142.94	1124.64	1084.07	1124.13
73	1148.25	1145.81	1051.22	1025.88	1009.72	1088.69	1122.57	1095.34	1070.64	1045.69
74	1101.97	1117.17	1076.45	974.24	988.98	1071.80	1036.24	1029.06	1026.57	980.17
75	1022.51	1038.12	1082.16	997.72	998.62	1006.95	1024.91	979.79	1011.39	1027.71
76	1061.48	1064.66	1081.09	1063.44	1054.33	1040.28	988.26	1014.95	1077.87	1036.86
77	961.15	1015.34	1122.39	1099.87	1090.72	1066.20	1032.78	1022.32	1123.69	1151.53
78	964.53	956.91	1061.52	1120.59	1055.97	1033.84	1008.32	1017.07	1090.99	1097.06
79	947.61	904.02	943.35	1023.79	1032.12	973.88	1000.00	1022.89	1028.92	1001.22
80	844.41	821.21	807.45	908.64	837.24	881.09	919.40	889.06	913.08	927.29
81	769.73	742.10	703.11	774.68	729.82	742.53	809.72	786.44	744.46	739.46
82	616.61	633.91	578.61	592.16	557.59	631.64	654.76	624.73	607.18	600.40
83	434.64	502.28	476.57	476.37	490.25	513.21	512.82	531.82	506.92	452.12
84	334.45	394.51	356.64	373.24	343.49	400.56	398.64	347.95	401.06	339.30
85	215.95	286.75	231.46	270.11	206.90	287.92	284.46	208.74	295.20	208.67
86	171.02	179.83	182.54	168.64	170.45	175.42	172.87	171.27	189.44	182.79
87	128.57	138.64	138.12	135.52	136.64	141.68	147.19	141.63	140.61	127.18
88	103.00	108.02	103.07	111.30	106.22	113.79	120.27	112.38	111.20	101.93
89	77.73	79.38	79.32	80.90	74.20	88.50	89.78	85.76	92.58	81.02
90	52.46	58.68	55.63	54.19	42.15	58.75	70.12	59.14	64.42	60.10
91	32.78	39.11	30.68	27.48	10.10	29.00	60.86	32.69	42.91	34.71
92	8.95	19.53	20.35	1.07	4.74	0.00	51.60	21.84	21.40	8.58
93	4.24	0.03	10.26	0.00	0.12	0.06	42.34	10.99	0.02	4.17
94	0.01	0.06	0.17	0.03	3.34	2.30	33.09	0.14	0.09	0.18
95	0.03	0.11	0.17	0.15	11.84	16.34	23.89	11.13	7.47	0.13
96	0.09	0.36	0.27	1.08	8.87	11.63	20.10	8.95	12.86	0.45
97	0.19	10.37	0.95	1.20	5.03	7.50	16.31	5.63	8.10	1.79
98	4.90	20.37	2.34	0.57	2.99	4.56	12.50	3.61	5.14	1.06
99	32.81	30.91	9.26	0.67	1.45	2.66	7.96	2.16	3.29	0.49
100	60.80	69.06	17.92	0.78	0.23	1.21	5.32	0.86	1.10	0.54
101	88.80	83.36	26.60	0.98	0.27	0.17	2.78	0.13	0.16	0.65
102	92.36	85.49	35.27	1.23	0.37	0.05	0.46	0.07	0.19	0.81
103	92.43	85.19	41.91	1.87	0.43	0.05	0.17	0.07	0.24	1.02
104	88.08	80.73	46.01	3.53	0.44	0.06	0.16	0.07	0.27	1.52
105	82.08	76.83	47.59	5.72	0.46	0.06	0.08	0.07	0.29	2.78
106	76.05	71.20	45.87	7.11	0.52	0.06	0.14	0.07	0.33	4.26
107	70.32	65.95	42.51	7.97	0.62	0.07	0.11	0.06	0.40	4.87
108	63.87	60.22	38.65	7.84	0.76	0.06	0.05	0.06	0.49	5.57
109	56.76	53.52	33.69	8.03	0.92	0.06	0.05	0.06	0.58	5.42

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110	51.55	48.15	30.04	7.34	1.08	0.06	0.05	0.06	0.66	5.42
111	44.47	42.22	26.09	6.88	1.04	0.05	0.04	0.07	0.78	4.98
112	38.99	38.16	23.59	6.39	1.15	0.05	0.04	0.07	0.90	4.57
113	35.82	35.24	22.01	5.72	1.15	0.05	0.05	0.07	0.95	4.40
114	32.60	32.88	20.56	5.52	1.10	0.04	0.05	0.06	0.96	4.22
115	29.73	30.71	19.67	5.40	1.07	0.04	0.04	0.06	0.90	3.84
116	27.03	27.76	17.72	5.14	1.03	0.02	0.03	0.04	0.84	3.38
117	24.54	25.72	16.14	4.57	0.95	0.01	0.01	0.04	0.67	3.28
118	23.01	24.52	16.26	4.26	0.84	0.02	0.01	0.03	0.47	3.13
119	21.23	23.96	17.52	4.10	0.73	0.02	0.02	0.03	0.28	2.98
120	19.37	23.94	19.72	3.82	0.61	0.01	0.02	0.03	0.09	2.83
121	19.22	24.21	24.54	3.59	0.49	0.01	0.01	0.02	0.05	2.65
122	19.26	24.18	21.20	3.48	0.37	0.01	0.00	0.02	0.04	2.43
123	19.54	22.46	16.10	3.32	0.21	0.01	0.00	0.01	0.03	2.21
124	23.80	21.74	13.83	3.12	0.05	0.01	0.00	0.01	0.02	2.00
125	34.38	24.75	11.56	2.90	0.04	0.00	0.00	0.00	0.02	1.75
126	37.21	22.81	9.29	2.69	0.04	0.00	0.00	0.00	0.02	1.55
127	30.47	20.88	7.02	2.45	0.04	0.00	0.00	0.00	0.02	1.35
128	28.32	18.90	6.55	2.19	0.04	0.00	0.00	0.00	0.02	1.12
129	23.34	15.55	6.18	1.94	0.04	0.01	0.00	0.00	0.02	0.80
130	16.31	11.62	5.71	1.68	0.03	0.01	0.00	0.00	0.02	0.27
131	10.52	8.80	5.23	1.41	0.03	0.01	0.00	0.00	0.02	0.07
132	9.66	8.10	4.75	0.95	0.04	0.01	0.00	0.00	0.02	0.07
133	8.95	7.39	4.24	0.31	0.03	0.01	0.00	0.00	0.03	0.07
134	8.22	6.78	3.70	0.17	0.03	0.01	0.00	0.00	0.03	0.08
135	7.53	6.27	3.19	0.21	0.03	0.01	0.00	0.01	0.04	0.14
136	6.95	5.74	2.66	0.23	0.03	0.01	0.00	0.01	0.04	0.18
137	6.15	4.92	2.00	0.24	0.03	0.01	0.01	0.02	0.03	0.20
138	4.81	4.05	1.01	0.24	0.03	0.01	0.02	0.02	0.03	0.21
139	3.97	3.31	0.30	0.24	0.04	0.01	0.02	0.02	0.03	0.21
140	3.16	2.33	0.22	0.23	0.08	0.00	0.02	0.01	0.04	0.21
141	1.91	0.98	0.21	0.21	0.11	0.00	0.01	0.01	0.08	0.20
142	0.63	0.20	0.20	0.20	0.12	0.00	0.00	0.01	0.11	0.20
143	0.16	0.16	0.19	0.20	0.12	0.02	0.01	0.03	0.13	0.19
144	0.13	0.15	0.18	0.20	0.11	0.08	0.03	0.09	0.15	0.20
145	0.13	0.14	0.16	0.19	0.12	0.13	0.08	0.13	0.16	0.19
146	0.12	0.13	0.14	0.19	0.12	0.15	0.13	0.16	0.17	0.18
147	0.11	0.12	0.14	0.18	0.13	0.16	0.15	0.17	0.18	0.17
148	0.10	0.10	0.13	0.16	0.13	0.18	0.16	0.18	0.18	0.16
149	0.09	0.09	0.12	0.14	0.14	0.18	0.18	0.18	0.18	0.15
150	0.09	0.09	0.12	0.13	0.15	0.18	0.18	0.18	0.17	0.14
151	0.09	0.09	0.12	0.11	0.15	0.17	0.18	0.17	0.17	0.14
152	0.08	0.08	0.11	0.10	0.15	0.17	0.18	0.17	0.17	0.15
153	0.08	0.08	0.09	0.10	0.16	0.16	0.17	0.16	0.17	0.15
154	0.08	0.08	0.08	0.10	0.16	0.16	0.16	0.16	0.17	0.16
155	0.07	0.08	0.07	0.10	0.16	0.16	0.15	0.15	0.17	0.16
156	0.07	0.07	0.06	0.10	0.15	0.16	0.15	0.15	0.16	0.16
157	0.06	0.06	0.05	0.10	0.14	0.15	0.15	0.15	0.17	0.16
158	0.05	0.06	0.04	0.10	0.13	0.15	0.15	0.15	0.17	0.15
159	0.05	0.05	0.03	0.10	0.12	0.14	0.15	0.15	0.16	0.15
160	0.04	0.05	0.03	0.08	0.11	0.14	0.15	0.15	0.16	0.15
161	0.04	0.04	0.05	0.01	0.10	0.13	0.15	0.15	0.15	0.07
162	0.03	0.04	0.07	0.01	0.09	0.12	0.14	0.15	0.15	0.05
163	0.03	0.04	0.07	0.00	0.08	0.11	0.13	0.14	0.15	0.05
164	0.02	0.04	0.05	0.00	0.01	0.10	0.13	0.14	0.12	0.04
165	0.02	0.03	0.05	0.00	0.00	0.08	0.12	0.13	0.04	0.04

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CANDELA TABULATION - (Cont.)

166	0.02	0.02	0.03	0.00	0.00	0.00	0.10	0.05	0.04	0.04
167	0.01	0.02	0.02	0.02	0.00	0.00	0.03	0.04	0.04	0.08
168	0.01	0.01	0.02	0.03	0.00	0.00	0.03	0.04	0.04	0.10
169	0.00	0.01	0.02	0.03	0.00	0.00	0.03	0.04	0.04	0.10
170	0.00	0.00	0.01	0.03	0.03	0.00	0.04	0.05	0.10	0.09
171	0.00	0.00	0.01	0.02	0.03	0.02	0.07	0.09	0.10	0.09
172	0.00	0.00	0.01	0.02	0.02	0.01	0.08	0.08	0.09	0.08
173	0.00	0.00	0.01	0.01	0.02	0.00	0.07	0.07	0.08	0.07
174	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.06	0.07	0.06
175	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05
176	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.03	0.04
177	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03
178	0.00	0.00	0.00	0.01	0.02	0.03	0.02	0.03	0.03	0.03
179	0.00	0.00	0.00	0.01	0.02	0.03	0.02	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
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	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20	1392.20
1	1389.64	1389.42	1388.92	1389.56	1390.17	1390.25	1390.28	1390.14	1391.13	1391.68
2	1387.74	1388.06	1387.19	1388.17	1387.89	1387.33	1387.35	1386.81	1387.28	1388.94
3	1387.43	1386.59	1386.89	1386.60	1386.48	1383.46	1383.70	1381.85	1383.27	1384.78
4	1389.70	1387.23	1385.10	1385.00	1382.97	1377.88	1378.80	1377.85	1379.55	1379.72
5	1392.35	1386.88	1384.62	1382.38	1378.76	1374.45	1374.38	1374.39	1375.33	1375.92
6	1389.51	1383.71	1380.69	1378.91	1373.91	1371.57	1370.75	1370.35	1372.38	1373.43
7	1383.68	1382.49	1378.35	1376.27	1371.96	1370.77	1368.71	1368.46	1370.59	1370.91
8	1382.60	1385.41	1381.11	1381.66	1376.86	1375.39	1371.02	1366.87	1366.14	1369.50
9	1385.36	1391.28	1390.46	1396.33	1393.73	1389.83	1384.59	1371.97	1371.04	1371.22
10	1394.59	1409.04	1411.88	1421.06	1422.29	1416.53	1409.08	1387.62	1391.88	1382.78
11	1413.36	1441.46	1442.36	1452.83	1460.32	1445.28	1439.52	1419.63	1429.30	1410.17
12	1442.53	1474.89	1477.64	1481.67	1493.65	1467.04	1472.45	1460.93	1471.29	1448.54
13	1471.33	1506.01	1507.60	1503.72	1515.32	1483.43	1502.64	1499.06	1503.15	1490.16
14	1494.78	1531.80	1530.62	1518.46	1534.07	1500.07	1530.52	1529.84	1519.61	1521.41
15	1508.48	1553.60	1545.69	1533.94	1561.16	1522.88	1558.83	1552.69	1528.14	1550.65
16	1522.50	1572.88	1548.18	1550.13	1593.66	1549.01	1587.40	1575.20	1541.79	1580.59
17	1537.96	1591.33	1547.18	1562.01	1618.59	1568.30	1616.90	1601.10	1564.13	1611.83
18	1556.31	1601.40	1541.11	1566.33	1616.20	1565.04	1624.58	1630.63	1591.62	1638.52
19	1567.67	1593.25	1532.29	1555.14	1588.11	1545.97	1607.61	1641.68	1609.76	1646.04
20	1566.84	1577.06	1523.30	1534.83	1556.60	1533.19	1581.28	1630.74	1620.28	1636.06
21	1552.66	1559.04	1517.32	1517.81	1543.53	1542.13	1565.54	1601.93	1616.48	1606.79
22	1543.98	1546.34	1519.68	1512.53	1560.83	1573.10	1573.37	1574.52	1604.51	1577.74
23	1556.37	1551.86	1536.44	1524.48	1593.89	1612.78	1592.96	1562.93	1595.01	1566.80
24	1586.28	1579.02	1557.25	1546.65	1627.42	1657.97	1627.56	1581.19	1612.26	1587.24
25	1624.88	1630.49	1575.64	1577.38	1647.02	1683.19	1648.49	1603.28	1628.77	1638.16
26	1662.14	1687.30	1602.67	1607.55	1667.88	1709.65	1665.80	1626.55	1644.16	1696.41
27	1694.64	1725.74	1627.90	1625.41	1691.55	1726.78	1669.46	1632.47	1637.31	1731.64
28	1717.44	1722.21	1639.97	1624.66	1716.17	1740.64	1677.01	1619.96	1623.23	1732.15
29	1723.43	1690.82	1637.93	1624.10	1726.55	1733.59	1680.69	1611.57	1618.97	1702.78
30	1719.76	1658.34	1627.27	1633.29	1712.82	1709.65	1681.58	1608.44	1611.01	1658.51
31	1709.22	1638.63	1618.93	1649.86	1671.85	1675.25	1674.39	1606.89	1595.99	1617.66
32	1679.41	1627.06	1610.06	1666.38	1630.81	1645.23	1665.88	1623.80	1580.26	1591.00
33	1645.29	1627.57	1612.53	1667.38	1614.43	1633.20	1665.88	1641.03	1574.43	1579.67
34	1617.33	1628.75	1624.77	1664.95	1627.51	1636.50	1666.00	1650.00	1585.45	1579.74
35	1610.03	1632.69	1638.37	1663.04	1655.50	1648.56	1669.97	1649.38	1609.18	1580.87
36	1620.46	1641.50	1652.69	1679.41	1664.48	1666.54	1678.39	1646.51	1638.33	1578.94

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CANDELA TABULATION - (Cont.)

37	1637.83	1655.33	1660.54	1708.68	1667.22	1697.77	1694.28	1657.77	1649.70	1584.25
38	1659.20	1670.12	1672.84	1720.64	1672.82	1726.31	1706.27	1668.98	1638.47	1605.75
39	1672.04	1685.78	1677.32	1710.79	1678.17	1729.63	1703.18	1660.66	1618.02	1623.79
40	1671.59	1681.76	1658.17	1661.72	1678.71	1697.48	1678.37	1628.41	1601.69	1625.14
41	1654.16	1652.61	1617.72	1618.57	1651.76	1654.73	1650.83	1606.05	1617.80	1617.68
42	1618.52	1607.54	1574.96	1596.64	1605.99	1622.40	1629.53	1616.76	1644.67	1614.26
43	1583.61	1563.67	1560.35	1592.55	1575.97	1604.97	1609.35	1645.61	1666.95	1627.95
44	1572.13	1550.64	1566.53	1597.38	1575.31	1593.27	1595.95	1667.14	1658.60	1645.90
45	1580.52	1553.63	1585.73	1594.51	1606.81	1593.27	1605.48	1654.43	1632.14	1654.30
46	1595.19	1563.83	1608.38	1592.49	1633.82	1611.02	1629.60	1619.58	1607.25	1641.61
47	1607.95	1583.88	1629.51	1590.55	1636.21	1637.20	1644.97	1588.03	1612.70	1615.20
48	1619.85	1605.31	1647.75	1602.72	1625.31	1647.03	1635.32	1581.50	1632.00	1601.06
49	1619.50	1613.02	1637.17	1611.58	1604.29	1630.52	1614.61	1605.23	1640.57	1611.78
50	1598.70	1591.25	1604.53	1607.94	1585.42	1609.96	1590.86	1637.24	1626.64	1613.15
51	1568.85	1556.26	1575.55	1602.96	1571.01	1609.60	1580.99	1651.36	1609.93	1599.83
52	1561.22	1552.38	1584.24	1619.05	1586.85	1626.43	1588.41	1655.00	1623.87	1582.98
53	1574.32	1585.43	1612.90	1649.24	1602.13	1630.50	1586.86	1651.83	1664.97	1580.18
54	1573.05	1615.46	1630.98	1663.02	1594.41	1645.06	1576.06	1659.49	1669.21	1593.67
55	1563.29	1617.78	1619.80	1659.88	1575.83	1656.61	1576.98	1680.59	1624.41	1604.81
56	1568.27	1630.42	1612.55	1640.77	1585.71	1632.16	1580.59	1682.12	1594.66	1579.34
57	1571.15	1592.59	1575.21	1594.15	1579.75	1576.36	1559.97	1633.88	1605.33	1540.65
58	1551.16	1533.66	1520.27	1549.43	1562.28	1558.37	1553.19	1571.83	1596.75	1552.50
59	1552.65	1548.48	1495.48	1552.43	1569.19	1535.29	1574.71	1539.20	1559.94	1590.49
60	1567.73	1571.07	1460.11	1565.93	1531.61	1513.93	1571.77	1499.66	1518.44	1590.67
61	1522.32	1547.43	1443.16	1541.49	1483.60	1522.64	1529.93	1469.69	1504.43	1584.83
62	1440.45	1486.70	1423.47	1480.97	1464.09	1499.19	1473.25	1427.11	1493.53	1590.53
63	1445.28	1409.43	1379.49	1408.44	1462.19	1465.80	1418.43	1359.01	1392.44	1542.98
64	1416.13	1379.84	1357.16	1389.79	1429.08	1400.02	1389.48	1310.91	1340.69	1439.48
65	1382.71	1391.95	1339.01	1392.64	1381.75	1360.52	1379.67	1284.88	1330.42	1353.72
66	1343.00	1349.82	1300.47	1310.14	1375.70	1304.25	1370.85	1274.90	1310.61	1325.75
67	1352.18	1264.16	1229.96	1253.79	1338.97	1280.30	1305.15	1254.73	1288.67	1301.27
68	1292.81	1234.27	1206.50	1224.17	1258.48	1210.46	1257.42	1194.46	1226.98	1254.04
69	1187.08	1185.72	1203.91	1240.65	1174.06	1190.06	1212.62	1184.29	1240.93	1216.37
70	1136.12	1205.89	1223.08	1221.17	1134.41	1156.76	1169.40	1190.01	1182.44	1189.53
71	1113.82	1179.26	1200.47	1193.61	1165.08	1164.78	1146.55	1174.94	1196.43	1168.45
72	1087.37	1113.23	1169.19	1129.67	1116.19	1070.24	1058.20	1131.22	1079.27	1120.39
73	1049.08	1091.92	1108.50	1097.89	1074.20	1012.09	1038.11	1084.56	1155.82	1071.96
74	1014.08	1027.56	1043.18	1018.30	1023.92	1040.40	1057.17	1135.47	1109.02	1103.73
75	1015.64	983.15	1004.80	1011.41	1078.54	1046.59	1141.51	1169.58	1155.47	1102.11
76	1099.58	1056.41	1029.76	1035.33	1153.19	1152.41	1165.24	1206.25	1126.53	1089.15
77	1108.61	1026.71	979.71	1042.13	1109.60	1151.25	1119.89	1067.96	1107.93	1029.86
78	1042.11	998.41	984.15	1002.93	1058.97	1067.12	1099.58	1015.85	1036.70	983.74
79	1006.06	923.17	971.89	928.74	970.40	967.04	924.84	867.84	888.03	863.57
80	867.15	833.80	895.96	823.43	798.95	809.99	760.84	725.97	773.30	760.01
81	691.12	720.02	752.54	703.64	646.48	651.96	629.19	641.55	663.57	670.04
82	587.46	634.96	622.84	587.12	531.70	511.37	492.73	521.34	525.11	566.09
83	498.66	489.21	470.50	455.19	421.07	345.09	384.90	299.30	299.72	437.00
84	390.15	338.62	373.27	313.13	332.19	253.51	277.06	219.85	208.08	307.90
85	281.64	230.19	276.03	208.81	243.31	185.48	169.82	175.06	168.59	178.80
86	174.63	180.34	179.69	162.75	155.39	138.53	147.45	136.93	132.69	141.62
87	137.13	131.14	124.97	134.71	119.59	109.09	110.21	103.90	107.00	115.14
88	108.33	102.53	104.93	107.12	92.72	84.53	85.58	78.38	81.58	86.02
89	78.81	79.61	73.09	79.53	68.42	60.12	57.01	53.02	56.16	60.79
90	62.10	56.80	57.03	51.93	46.56	35.71	28.44	27.65	34.98	40.58
91	41.64	38.42	38.11	29.87	24.69	9.33	0.11	18.31	23.32	20.37
92	21.18	14.30	19.19	7.54	3.35	4.51	0.02	9.28	11.77	0.16

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CANDELA TABULATION - (Cont.)

93	1.01	9.28	0.73	3.77	0.07	0.17	0.62	0.25	0.21	0.04
94	0.13	4.80	0.04	0.16	0.12	0.09	12.26	4.37	8.05	4.27
95	0.20	0.31	0.07	0.17	0.19	0.43	15.51	8.63	16.25	12.44
96	0.27	0.28	0.12	0.25	0.28	2.09	10.42	12.88	24.45	10.21
97	0.39	0.40	0.33	0.36	0.83	1.78	6.42	9.64	16.90	6.62
98	1.05	1.62	5.28	3.91	5.60	0.68	4.22	6.33	11.02	4.22
99	2.22	25.80	10.36	28.68	10.37	0.61	2.50	3.02	7.99	2.89
100	6.88	50.53	41.51	54.14	15.18	0.76	0.48	1.60	5.00	2.08
101	11.61	75.25	77.09	79.60	21.76	0.97	0.30	0.32	1.86	0.63
102	19.12	82.45	90.49	82.25	30.18	1.24	0.38	0.08	0.10	0.08
103	26.47	81.54	90.50	80.28	36.94	1.95	0.40	0.07	0.06	0.07
104	32.17	77.37	87.15	75.60	40.20	3.62	0.41	0.07	0.04	0.07
105	36.14	73.78	82.70	72.33	42.11	5.00	0.45	0.07	0.04	0.08
106	37.87	68.90	76.42	67.38	41.52	6.28	0.53	0.06	0.04	0.08
107	36.38	64.52	69.80	62.82	38.45	6.31	0.61	0.06	0.05	0.08
108	33.44	59.17	64.31	57.51	34.22	6.63	0.72	0.06	0.05	0.08
109	29.58	53.01	56.77	52.14	30.50	6.26	0.80	0.06	0.05	0.08
110	25.88	47.69	51.36	47.43	26.61	6.03	0.89	0.06	0.04	0.08
111	23.27	41.30	46.17	41.20	24.28	5.56	1.00	0.07	0.03	0.08
112	20.67	36.85	40.08	37.03	21.95	5.03	1.05	0.07	0.04	0.07
113	18.07	33.39	36.33	33.73	19.62	4.89	1.05	0.06	0.03	0.07
114	17.09	31.12	31.80	30.58	18.31	4.67	1.02	0.06	0.03	0.06
115	16.11	27.86	28.65	27.58	17.30	4.32	0.97	0.05	0.02	0.06
116	14.70	25.29	25.78	25.08	15.99	3.83	0.89	0.04	0.00	0.05
117	12.99	23.26	22.63	22.97	15.26	3.67	0.75	0.03	0.00	0.04
118	12.65	21.86	20.56	21.76	14.84	3.52	0.56	0.03	0.00	0.04
119	12.87	21.51	18.51	21.63	15.65	3.30	0.40	0.03	0.01	0.04
120	14.99	22.58	17.03	22.06	18.17	3.07	0.18	0.02	0.02	0.04
121	17.75	24.08	16.90	22.85	20.79	2.86	0.08	0.02	0.02	0.04
122	17.00	25.45	17.21	22.85	17.68	2.66	0.04	0.01	0.02	0.05
123	13.60	23.10	17.43	22.03	14.12	2.41	0.03	0.01	0.02	0.05
124	9.84	20.40	17.51	20.28	10.28	2.20	0.02	0.00	0.02	0.05
125	7.38	18.75	21.05	17.70	7.55	1.97	0.02	0.00	0.02	0.04
126	5.76	17.40	30.05	18.21	6.11	1.75	0.02	0.00	0.02	0.03
127	5.30	15.24	26.06	16.48	5.60	1.51	0.03	0.00	0.00	0.02
128	4.98	13.32	22.06	13.92	5.20	1.28	0.03	0.00	0.00	0.03
129	4.61	11.37	18.06	10.92	4.78	0.96	0.02	0.00	0.00	0.03
130	4.21	9.41	13.14	9.19	4.34	0.50	0.02	0.00	0.00	0.03
131	3.77	7.45	10.17	7.49	3.84	0.11	0.02	0.01	0.00	0.03
132	3.28	6.86	8.86	6.86	3.31	0.07	0.02	0.01	0.01	0.02
133	2.80	6.14	8.01	6.08	2.83	0.09	0.02	0.01	0.00	0.02
134	2.30	5.30	6.94	5.26	2.34	0.14	0.03	0.01	0.00	0.01
135	1.70	4.56	5.90	4.58	1.73	0.17	0.04	0.01	0.00	0.01
136	0.76	3.85	5.14	3.89	0.83	0.18	0.04	0.02	0.01	0.01
137	0.23	3.16	4.22	3.18	0.20	0.18	0.04	0.02	0.01	0.01
138	0.22	2.26	3.48	2.28	0.16	0.17	0.04	0.03	0.01	0.01
139	0.21	0.96	2.53	0.97	0.15	0.16	0.05	0.03	0.01	0.01
140	0.21	0.24	1.08	0.20	0.15	0.15	0.08	0.03	0.00	0.01
141	0.20	0.19	0.21	0.13	0.14	0.14	0.10	0.03	0.00	0.00
142	0.19	0.18	0.15	0.12	0.13	0.14	0.12	0.03	0.00	0.00
143	0.18	0.17	0.14	0.11	0.11	0.15	0.12	0.08	0.00	0.00
144	0.17	0.17	0.14	0.11	0.11	0.14	0.13	0.12	0.04	0.08
145	0.17	0.14	0.14	0.10	0.11	0.13	0.13	0.14	0.07	0.10
146	0.16	0.13	0.11	0.09	0.10	0.13	0.13	0.14	0.08	0.11
147	0.16	0.12	0.11	0.09	0.11	0.12	0.12	0.14	0.08	0.11
148	0.15	0.12	0.11	0.10	0.12	0.11	0.12	0.13	0.08	0.10

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CANDELA TABULATION - (Cont.)

149	0.15	0.12	0.11	0.09	0.12	0.10	0.12	0.12	0.07	0.09
150	0.16	0.11	0.11	0.11	0.12	0.10	0.12	0.11	0.05	0.09
151	0.16	0.11	0.11	0.10	0.11	0.10	0.12	0.11	0.05	0.09
152	0.15	0.11	0.12	0.10	0.11	0.11	0.12	0.11	0.05	0.09
153	0.14	0.10	0.12	0.10	0.11	0.11	0.12	0.10	0.04	0.08
154	0.12	0.10	0.11	0.09	0.11	0.11	0.11	0.10	0.04	0.08
155	0.10	0.10	0.10	0.09	0.10	0.11	0.10	0.10	0.05	0.08
156	0.10	0.10	0.10	0.09	0.10	0.11	0.09	0.09	0.05	0.08
157	0.09	0.10	0.09	0.09	0.10	0.11	0.08	0.09	0.05	0.07
158	0.09	0.10	0.09	0.09	0.10	0.11	0.09	0.09	0.05	0.07
159	0.08	0.10	0.09	0.09	0.09	0.11	0.09	0.09	0.04	0.07
160	0.07	0.10	0.09	0.09	0.09	0.10	0.09	0.09	0.04	0.06
161	0.06	0.09	0.09	0.10	0.09	0.10	0.08	0.09	0.04	0.06
162	0.08	0.09	0.08	0.09	0.09	0.09	0.08	0.09	0.04	0.06
163	0.09	0.09	0.08	0.09	0.08	0.09	0.09	0.09	0.04	0.06
164	0.09	0.08	0.08	0.09	0.07	0.09	0.09	0.09	0.04	0.05
165	0.08	0.08	0.08	0.09	0.07	0.08	0.09	0.09	0.04	0.05
166	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.04	0.05
167	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.09	0.04	0.05
168	0.08	0.08	0.07	0.08	0.08	0.08	0.09	0.09	0.04	0.05
169	0.08	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.04	0.04
170	0.08	0.07	0.07	0.08	0.08	0.06	0.07	0.07	0.03	0.04
171	0.08	0.07	0.07	0.08	0.07	0.05	0.07	0.06	0.01	0.02
172	0.08	0.07	0.06	0.07	0.06	0.05	0.05	0.06	0.01	0.00
173	0.07	0.06	0.06	0.06	0.06	0.05	0.04	0.05	0.00	0.00
174	0.06	0.06	0.05	0.06	0.05	0.04	0.02	0.03	0.00	0.00
175	0.05	0.05	0.04	0.05	0.03	0.03	0.01	0.02	0.00	0.00
176	0.04	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	0.01	0.01	0.02	0.00	0.00	0.00	0.00
178	0.02	0.02	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
179	0.01	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	1392.20	1392.20	1392.20	1392.20	1392.20
1	1391.73	1392.30	1393.24	1393.65	1393.27
2	1388.33	1390.25	1390.06	1391.47	1391.84
3	1384.09	1386.93	1385.67	1388.64	1389.70
4	1379.16	1381.76	1383.49	1387.50	1389.44
5	1375.85	1377.68	1379.47	1384.04	1386.03
6	1373.85	1374.62	1375.64	1380.30	1383.33
7	1371.87	1374.34	1374.46	1376.25	1379.98
8	1372.39	1375.24	1377.02	1376.60	1378.81
9	1378.30	1378.93	1384.14	1381.39	1381.23
10	1393.64	1392.30	1400.07	1394.91	1391.14
11	1419.10	1413.93	1428.02	1415.82	1410.56
12	1452.25	1440.18	1460.33	1443.23	1440.34
13	1487.17	1469.64	1493.42	1472.92	1474.29
14	1520.11	1494.79	1522.30	1498.39	1505.48
15	1542.76	1519.68	1545.07	1515.62	1527.57
16	1556.89	1546.51	1572.68	1526.57	1542.47
17	1567.87	1574.64	1601.27	1534.36	1564.30
18	1564.00	1592.33	1613.88	1536.79	1574.50
19	1552.93	1594.03	1604.44	1534.67	1573.78

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CANDELA TABULATION - (Cont.)

20	1542.85	1585.06	1579.11	1526.55	1560.96
21	1541.19	1576.66	1552.94	1521.17	1542.07
22	1552.56	1571.45	1543.41	1518.17	1528.59
23	1575.14	1574.36	1549.17	1519.71	1533.43
24	1617.95	1584.55	1565.34	1528.46	1553.27
25	1663.19	1628.26	1592.18	1561.17	1601.44
26	1694.24	1667.57	1615.83	1580.56	1638.43
27	1731.14	1711.76	1658.94	1609.06	1674.39
28	1761.54	1746.22	1693.43	1629.33	1691.02
29	1780.72	1763.07	1708.53	1658.31	1693.23
30	1768.82	1754.84	1692.74	1681.95	1679.42
31	1722.30	1714.27	1652.41	1686.41	1657.85
32	1673.96	1668.05	1622.24	1678.05	1638.05
33	1632.30	1629.75	1631.71	1662.48	1623.09
34	1606.16	1616.03	1650.58	1653.59	1610.56
35	1596.34	1609.99	1655.49	1651.34	1610.11
36	1614.82	1606.65	1635.59	1663.70	1619.97
37	1648.61	1621.82	1614.16	1681.81	1647.16
38	1675.66	1666.91	1639.66	1689.20	1673.32
39	1670.80	1703.23	1688.30	1681.67	1684.97
40	1649.69	1685.06	1709.05	1642.49	1681.77
41	1630.05	1641.94	1679.29	1623.38	1658.66
42	1622.23	1625.37	1625.68	1614.41	1619.01
43	1625.04	1630.43	1591.82	1624.62	1583.73
44	1632.89	1637.18	1584.15	1620.18	1571.79
45	1637.48	1624.95	1587.66	1590.34	1569.79
46	1632.51	1623.21	1595.03	1569.57	1578.28
47	1618.59	1635.76	1618.07	1594.94	1588.94
48	1599.04	1642.48	1637.92	1638.54	1604.75
49	1591.25	1631.49	1650.55	1661.50	1611.03
50	1589.23	1619.46	1630.05	1635.87	1610.65
51	1603.90	1606.17	1603.41	1597.96	1597.94
52	1620.14	1592.82	1609.60	1582.89	1596.68
53	1631.67	1586.11	1649.20	1610.30	1617.03
54	1636.12	1589.15	1657.27	1626.96	1646.32
55	1633.78	1608.22	1631.00	1623.10	1647.83
56	1616.53	1602.02	1600.22	1611.12	1608.63
57	1583.90	1547.56	1540.84	1590.31	1573.85
58	1549.52	1498.00	1487.33	1532.62	1553.83
59	1508.05	1471.05	1495.67	1474.66	1568.61
60	1480.81	1454.22	1501.55	1448.23	1582.82
61	1462.68	1422.59	1456.89	1461.11	1551.66
62	1428.95	1405.46	1436.13	1446.96	1511.64
63	1441.40	1375.98	1422.06	1433.58	1469.88
64	1392.97	1353.75	1370.15	1427.05	1442.16
65	1310.62	1327.18	1362.66	1387.61	1436.54
66	1266.04	1305.57	1335.67	1315.58	1370.77
67	1212.12	1266.52	1243.74	1279.92	1277.93
68	1210.26	1242.23	1190.52	1233.80	1251.63
69	1187.62	1191.68	1197.03	1202.76	1230.51
70	1139.98	1165.55	1210.97	1175.39	1216.97
71	1127.43	1105.14	1151.56	1150.70	1197.82
72	1084.02	1041.82	1059.63	1167.85	1123.76
73	1039.62	1051.62	1064.17	1138.99	1148.25
74	1081.31	1023.32	1074.71	1110.45	1101.97
75	1135.03	1078.71	1124.03	1050.20	1022.51

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CANDELA TABULATION - (Cont.)

76	1186.03	1137.17	1161.44	1075.96	1061.48
77	1162.04	1155.83	1161.28	1031.53	961.15
78	1028.35	1131.59	1059.77	963.28	964.53
79	870.38	1028.57	934.23	934.75	947.61
80	710.75	855.44	779.33	824.39	844.41
81	581.05	677.42	630.81	721.48	769.73
82	490.11	534.93	524.32	617.60	616.61
83	356.35	418.24	413.40	478.80	434.64
84	209.30	301.56	291.86	378.55	334.45
85	185.42	185.18	194.66	278.30	215.95
86	138.07	141.38	155.90	178.86	171.02
87	107.85	127.04	121.36	131.54	128.57
88	85.58	86.11	97.19	102.53	103.00
89	63.35	71.49	73.28	75.58	77.73
90	41.12	47.82	49.37	58.18	52.46
91	2.89	24.15	23.14	38.58	32.78
92	1.10	0.62	15.11	18.99	8.95
93	0.03	0.00	7.64	0.06	4.24
94	11.48	0.04	0.17	0.09	0.01
95	16.17	0.20	0.18	0.16	0.03
96	10.61	1.80	0.30	0.30	0.09
97	6.60	2.33	1.13	3.24	0.19
98	4.48	1.29	1.97	6.28	4.90
99	2.59	0.72	5.16	30.90	32.81
100	0.55	0.86	8.81	66.88	60.80
101	0.31	1.08	15.56	79.79	88.80
102	0.33	1.22	21.33	81.64	92.36
103	0.34	1.48	27.09	80.76	92.43
104	0.38	2.22	32.85	76.52	88.08
105	0.43	3.46	34.78	72.41	82.08
106	0.50	4.40	34.32	67.29	76.05
107	0.56	5.05	32.60	62.24	70.32
108	0.60	5.51	30.28	57.13	63.87
109	0.64	5.41	26.80	51.12	56.76
110	0.72	5.36	23.83	46.12	51.55
111	0.84	5.06	21.24	40.55	44.47
112	0.90	4.83	19.32	36.70	38.99
113	0.92	4.69	18.00	34.04	35.82
114	0.87	4.59	17.16	31.66	32.60
115	0.82	4.22	16.22	28.99	29.73
116	0.76	3.77	15.39	26.51	27.03
117	0.61	3.62	14.90	25.87	24.54
118	0.46	3.53	15.57	25.52	23.01
119	0.31	3.44	16.47	25.21	21.23
120	0.18	3.26	18.04	25.85	19.37
121	0.09	3.08	20.13	28.07	19.22
122	0.08	2.87	16.16	26.87	19.26
123	0.08	2.67	13.43	23.33	19.54
124	0.07	2.47	11.15	24.35	23.80
125	0.07	2.27	8.87	22.56	34.38
126	0.08	2.03	6.60	20.77	37.21
127	0.08	1.78	6.13	18.94	30.47
128	0.07	1.55	5.74	15.68	28.32
129	0.07	1.31	5.31	12.86	23.34
130	0.06	0.96	4.87	9.44	16.31
131	0.05	0.35	4.42	8.43	10.52

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CANDELA TABULATION - (Cont.)

132	0.05	0.10	3.94	7.83	9.66
133	0.05	0.10	3.47	7.18	8.95
134	0.05	0.11	2.98	6.51	8.22
135	0.05	0.17	2.44	5.81	7.53
136	0.05	0.20	1.81	5.19	6.95
137	0.05	0.20	0.82	4.33	6.15
138	0.05	0.20	0.23	3.61	4.81
139	0.05	0.18	0.19	2.74	3.97
140	0.06	0.17	0.18	1.58	3.16
141	0.09	0.16	0.17	0.45	1.91
142	0.10	0.15	0.16	0.15	0.63
143	0.11	0.16	0.15	0.14	0.16
144	0.12	0.15	0.14	0.14	0.13
145	0.12	0.14	0.12	0.13	0.13
146	0.11	0.13	0.11	0.13	0.12
147	0.11	0.12	0.11	0.12	0.11
148	0.10	0.11	0.12	0.11	0.10
149	0.10	0.10	0.12	0.10	0.09
150	0.10	0.09	0.11	0.10	0.09
151	0.09	0.09	0.11	0.11	0.09
152	0.10	0.09	0.10	0.11	0.08
153	0.09	0.09	0.09	0.10	0.08
154	0.09	0.08	0.08	0.09	0.08
155	0.07	0.08	0.07	0.08	0.07
156	0.06	0.08	0.07	0.07	0.07
157	0.05	0.07	0.07	0.06	0.06
158	0.05	0.07	0.07	0.05	0.05
159	0.05	0.07	0.06	0.05	0.05
160	0.04	0.07	0.06	0.04	0.04
161	0.04	0.06	0.06	0.04	0.04
162	0.05	0.05	0.06	0.04	0.03
163	0.06	0.04	0.05	0.04	0.03
164	0.06	0.03	0.05	0.03	0.02
165	0.06	0.03	0.04	0.03	0.02
166	0.06	0.03	0.02	0.02	0.02
167	0.06	0.03	0.02	0.02	0.01
168	0.05	0.03	0.01	0.01	0.01
169	0.05	0.03	0.01	0.01	0.00
170	0.04	0.03	0.01	0.01	0.00
171	0.03	0.02	0.01	0.01	0.00
172	0.01	0.01	0.00	0.00	0.00
173	0.00	0.00	0.00	0.00	0.00
174	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00
176	0.00	0.00	0.00	0.00	0.00
177	0.00	0.00	0.00	0.00	0.00
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	562.64	7.20	7.20
0-30	1310.97	16.70	16.70
0-40	2340.7	29.80	29.80
0-60	4997.36	63.60	63.60
0-80	7456.74	94.90	94.90
0-90	7803.47	99.30	99.30
10-90	7671.41	97.60	97.60
20-40	1778.06	22.60	22.60
20-50	3021.94	38.40	38.40
40-70	3994.29	50.80	50.80
60-80	2459.38	31.30	31.30
70-80	1121.74	14.30	14.30
80-90	346.73	4.40	4.40
90-110	37.57	0.50	0.50
90-120	49.16	0.60	0.60
90-130	55.82	0.70	0.70
90-150	57.40	0.70	0.70
90-180	57.47	0.70	0.70
110-180	19.90	0.30	0.30
0-180	7860.94	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	132.06
10-20	430.58
20-30	748.33
30-40	1029.73
40-50	1243.87
50-60	1412.79
60-70	1337.63
70-80	1121.74
80-90	346.73
90-100	12.25
100-110	25.33
110-120	11.58
120-130	6.66
130-140	1.48
140-150	0.10
150-160	0.05
160-170	0.02
170-180	0.00

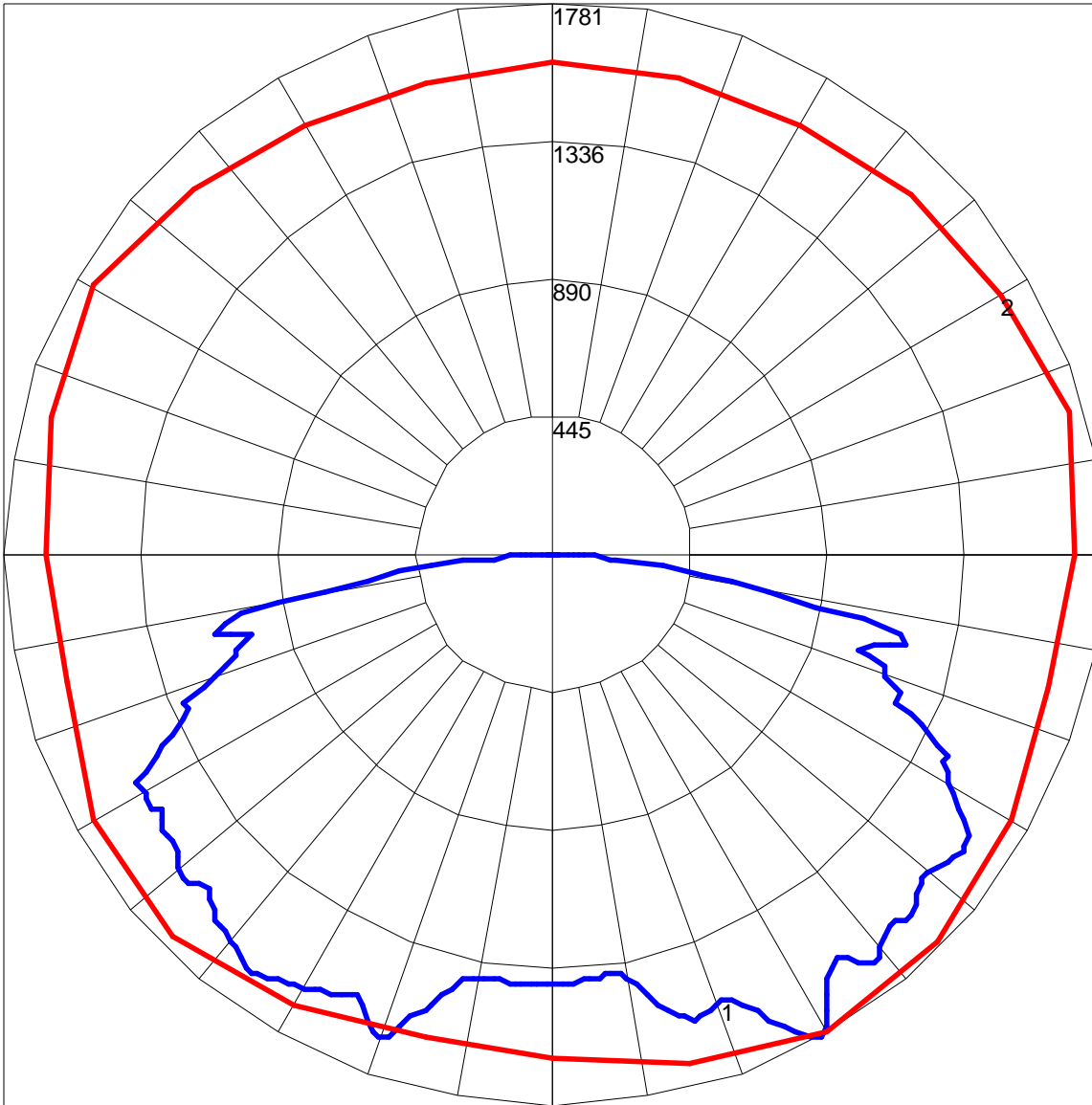
IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	111	111	106	106	106	101	101	101	99
1	106	99	94	89	103	97	92	88	92	88	85	88	85	82	84	82	79	77
2	94	84	75	68	91	82	74	67	78	71	66	74	69	64	71	66	62	60
3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	50	48
4	76	62	52	44	73	61	51	44	58	50	43	55	48	42	53	47	41	39
5	69	55	44	37	67	53	44	36	51	42	36	49	41	35	47	40	35	32
6	63	48	38	31	61	47	38	31	45	37	31	44	36	30	42	35	30	28
7	58	43	34	27	57	43	33	27	41	33	26	39	32	26	38	31	26	24
8	54	39	30	24	52	39	30	23	37	29	23	36	28	23	34	28	23	21
9	50	36	27	21	49	35	27	21	34	26	20	33	25	20	32	25	20	18
10	47	33	24	19	46	32	24	18	31	24	18	30	23	18	29	23	18	16

POLAR GRAPH



Maximum Candela = 1780.72 Located At Horizontal Angle = 300, Vertical Angle = 29
1 - Vertical Plane Through Horizontal Angles (300 - 120) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (29) (Through Max. Cd.)