



# Photometric Toolbox™

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : CPYRA12PG-LED60DMVXX50.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]

[TESTLAB] Dongguan New Testing Centre Co., Ltd

[TESTDATE] 17 July 2017

[ISSUEDATE] 2017-07-17 11:30:41

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-R5000\_V2 SYSTEM

[MANUFAC] Mobern Lighting Co.

[LUMCAT] CPYRA12PG-LED60DMVxx50

[BALLAST] 100-277Vac,60Hz

[OTHER]

[OTHER] Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
[OTHER] 0- 10	101.21	101.21	1.39	1.39
[OTHER] 10- 20	311.19	412.40	5.65	5.65
[OTHER] 20- 30	553.37	965.77	13.22	13.22
[OTHER] 30- 40	843.49	1809.26	24.77	24.77
[OTHER] 40- 50	1164.75	2974.01	40.72	40.72
[OTHER] 50- 60	1437.91	4411.92	60.41	60.41
[OTHER] 60- 70	1380.23	5792.15	79.31	79.31
[OTHER] 70- 80	879.11	6671.26	91.35	91.35
[OTHER] 80- 90	393.15	7064.41	96.73	96.73
[OTHER] 90-100	138.84	7203.25	98.63	98.63
[OTHER] 100-110	54.08	7257.33	99.37	99.37
[OTHER] 110-120	27.25	7284.58	99.75	99.75
[OTHER] 120-130	13.88	7298.46	99.94	99.94
[OTHER] 130-140	4.11	7302.57	99.99	99.99
[OTHER] 140-150	0.46	7303.03	100.00	100.00
[OTHER] 150-160	0.04	7303.07	100.00	100.00
[OTHER] 160-170	0.02	7303.09	100.00	100.00
[OTHER] 170-180	0.01	7303.09	100.00	100.00
[OTHER]				

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**CHARACTERISTICS**

Lumens Per Lamp	7303.1 (1 lamp)
Total Lamp Lumens	7303.1
Luminaire Lumens	7303
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	61.014
Ballast Factor	0.99
CIE Type	Direct
Spacing Criterion (0-180)	1.98
Spacing Criterion (90-270)	1.90
Spacing Criterion (Diagonal)	2.16
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.30 m (Diameter)
Luminous Width (90-270)	0.30 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	29088	27468	27955
55	39378	36748	38081
65	48699	47074	49715
75	47558	50096	53060
85	61276	70229	72937

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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>
<b>0</b>	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30
<b>1</b>	1050.15	1048.51	1048.71	1047.84	1047.37	1048.11	1048.13	1048.26	1048.70	1049.25
<b>2</b>	1049.98	1048.83	1048.17	1046.42	1045.85	1045.76	1045.62	1046.76	1047.77	1049.53
<b>3</b>	1050.23	1048.51	1047.18	1045.31	1045.09	1044.34	1045.17	1045.74	1047.58	1049.75
<b>4</b>	1050.92	1049.06	1047.07	1045.97	1044.57	1044.12	1044.84	1046.20	1047.65	1050.14
<b>5</b>	1053.05	1050.17	1047.72	1045.57	1044.78	1044.21	1045.98	1046.78	1048.17	1051.30
<b>6</b>	1054.91	1051.45	1048.60	1046.07	1045.32	1044.34	1046.74	1047.37	1049.25	1052.36
<b>7</b>	1056.42	1052.69	1050.17	1046.98	1045.62	1045.54	1047.65	1048.37	1050.08	1053.87
<b>8</b>	1058.89	1053.83	1051.18	1047.82	1047.15	1046.42	1049.00	1049.67	1052.19	1056.35
<b>9</b>	1060.46	1056.25	1052.28	1049.05	1048.76	1047.76	1049.46	1051.28	1054.36	1057.95
<b>10</b>	1062.67	1058.32	1054.47	1050.67	1049.73	1048.63	1051.42	1053.46	1056.28	1060.51
<b>11</b>	1064.55	1059.98	1056.15	1052.44	1051.67	1050.68	1053.25	1055.47	1057.56	1062.34
<b>12</b>	1067.72	1061.65	1057.15	1053.45	1052.54	1052.42	1054.16	1057.53	1060.20	1064.42
<b>13</b>	1071.13	1064.20	1059.48	1055.32	1054.03	1053.80	1056.28	1059.18	1061.63	1067.26
<b>14</b>	1074.76	1067.29	1061.77	1057.25	1056.49	1056.16	1058.09	1061.88	1064.68	1070.57
<b>15</b>	1079.71	1071.07	1066.00	1060.63	1058.74	1058.80	1060.95	1064.58	1068.25	1075.02
<b>16</b>	1084.29	1075.60	1069.37	1064.21	1062.91	1062.59	1064.43	1068.51	1073.42	1080.50
<b>17</b>	1091.23	1081.36	1074.51	1068.20	1067.49	1067.01	1068.62	1073.45	1078.12	1086.47
<b>18</b>	1098.38	1087.46	1080.18	1074.16	1072.64	1071.18	1073.43	1078.43	1083.82	1093.78
<b>19</b>	1105.77	1093.79	1086.78	1079.99	1078.32	1076.99	1079.40	1085.04	1091.13	1101.26
<b>20</b>	1114.12	1101.58	1093.69	1087.33	1084.64	1083.24	1085.99	1092.13	1098.72	1109.62
<b>21</b>	1122.11	1109.44	1100.57	1093.81	1091.99	1090.59	1093.45	1099.39	1106.87	1118.24
<b>22</b>	1132.08	1117.04	1108.89	1100.92	1099.13	1097.99	1101.74	1107.51	1115.52	1128.16
<b>23</b>	1141.36	1126.55	1117.10	1108.72	1107.46	1106.14	1109.29	1117.03	1124.12	1137.94
<b>24</b>	1152.00	1135.61	1125.90	1116.45	1115.10	1114.04	1117.86	1125.98	1133.80	1148.28
<b>25</b>	1163.23	1145.93	1134.98	1125.19	1123.76	1123.13	1128.13	1136.42	1143.24	1158.82
<b>26</b>	1174.95	1156.86	1145.48	1134.38	1132.94	1132.70	1137.97	1147.03	1154.27	1171.28
<b>27</b>	1187.19	1168.21	1156.66	1144.40	1143.81	1142.51	1148.25	1158.55	1165.60	1183.10
<b>28</b>	1199.84	1180.58	1167.79	1155.13	1154.84	1154.18	1159.80	1170.72	1178.64	1196.67
<b>29</b>	1213.41	1193.02	1179.39	1165.97	1165.99	1165.58	1171.73	1182.85	1191.37	1210.73
<b>30</b>	1226.60	1205.74	1191.52	1178.50	1177.37	1178.18	1183.62	1195.21	1205.77	1226.14
<b>31</b>	1240.10	1218.79	1204.28	1191.13	1189.71	1190.30	1196.42	1209.46	1220.05	1240.00
<b>32</b>	1253.90	1232.25	1217.54	1203.06	1202.27	1203.53	1210.29	1223.30	1233.64	1255.07
<b>33</b>	1267.88	1246.60	1229.81	1215.08	1214.40	1216.38	1224.20	1237.35	1247.65	1269.64
<b>34</b>	1282.74	1259.64	1243.22	1227.72	1226.76	1228.72	1237.34	1252.06	1261.18	1283.80
<b>35</b>	1297.08	1273.79	1256.43	1239.96	1239.35	1242.40	1250.59	1266.50	1276.05	1299.73
<b>36</b>	1311.04	1288.15	1269.80	1253.12	1252.45	1255.40	1264.47	1280.88	1290.86	1313.70
<b>37</b>	1327.21	1301.87	1283.05	1266.56	1265.79	1269.40	1278.28	1296.37	1305.48	1329.81
<b>38</b>	1342.06	1316.51	1297.45	1279.23	1279.18	1282.51	1292.68	1310.92	1321.22	1344.78
<b>39</b>	1357.43	1330.91	1311.89	1292.61	1292.18	1296.61	1307.09	1325.19	1336.15	1360.06
<b>40</b>	1373.14	1345.72	1325.10	1306.35	1306.07	1310.86	1322.22	1340.89	1351.57	1375.05
<b>41</b>	1389.80	1360.96	1339.29	1319.47	1319.79	1324.89	1337.04	1356.42	1366.74	1390.41
<b>42</b>	1405.67	1376.92	1353.70	1332.53	1333.54	1339.41	1351.10	1372.35	1381.96	1405.79
<b>43</b>	1422.35	1392.38	1368.80	1346.13	1347.57	1353.49	1366.92	1387.05	1397.38	1421.46
<b>44</b>	1438.44	1408.03	1382.86	1360.46	1361.77	1368.74	1381.98	1403.68	1412.69	1436.98
<b>45</b>	1454.52	1422.83	1397.61	1373.48	1375.63	1383.02	1397.85	1419.38	1428.00	1452.78
<b>46</b>	1471.66	1439.08	1412.72	1387.71	1390.39	1398.36	1413.44	1435.79	1443.73	1468.16
<b>47</b>	1488.41	1455.08	1427.12	1401.01	1405.33	1413.42	1429.01	1451.25	1459.27	1483.06
<b>48</b>	1505.68	1469.96	1441.37	1413.99	1419.48	1428.05	1444.31	1467.96	1475.35	1497.91
<b>49</b>	1522.44	1486.48	1455.59	1426.43	1432.98	1444.23	1460.91	1482.51	1489.13	1511.20
<b>50</b>	1537.95	1501.08	1468.35	1439.14	1445.85	1459.20	1476.05	1498.59	1503.80	1524.91
<b>51</b>	1552.60	1515.86	1481.16	1451.36	1459.17	1473.92	1491.68	1513.24	1516.70	1536.92
<b>52</b>	1567.53	1529.58	1494.01	1463.23	1471.82	1487.72	1505.66	1527.77	1529.77	1548.25
<b>53</b>	1579.28	1542.12	1505.01	1473.72	1483.62	1501.03	1520.40	1540.22	1541.08	1557.71

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**CANDELA TABULATION - (Cont.)**

54	1589.61	1553.55	1514.08	1482.98	1494.32	1512.81	1532.58	1551.81	1550.40	1564.05
55	1597.22	1561.84	1522.39	1490.54	1503.69	1523.86	1544.60	1560.96	1558.11	1568.93
56	1601.12	1568.29	1527.82	1496.19	1510.63	1533.34	1553.75	1568.59	1563.68	1571.62
57	1602.82	1571.69	1531.37	1499.29	1515.81	1539.74	1560.01	1571.83	1565.26	1570.25
58	1599.71	1572.39	1531.58	1500.57	1517.94	1543.82	1563.82	1573.32	1564.60	1565.50
59	1593.98	1570.03	1528.37	1498.23	1517.59	1544.62	1565.08	1572.21	1560.42	1557.27
60	1583.14	1562.13	1521.52	1492.53	1512.95	1542.69	1561.90	1566.16	1552.34	1544.68
61	1567.70	1551.26	1511.79	1482.93	1506.75	1538.08	1555.66	1557.91	1540.43	1527.19
62	1548.57	1536.15	1497.43	1470.72	1495.09	1527.07	1544.63	1543.81	1524.08	1506.13
63	1522.94	1516.35	1479.45	1454.33	1479.73	1513.12	1530.12	1526.49	1503.36	1479.88
64	1492.95	1490.59	1456.39	1432.59	1460.05	1494.81	1510.13	1502.54	1476.35	1447.63
65	1455.40	1459.13	1427.87	1406.85	1434.22	1471.68	1485.78	1473.87	1446.11	1411.23
66	1415.22	1422.80	1393.61	1375.76	1403.90	1441.97	1455.48	1439.30	1409.65	1369.46
67	1367.72	1380.38	1354.39	1339.98	1367.23	1407.08	1419.88	1400.85	1368.17	1323.61
68	1315.81	1332.51	1310.90	1300.07	1327.36	1366.31	1378.87	1355.54	1321.69	1272.52
69	1257.85	1278.77	1261.44	1253.94	1281.85	1321.52	1332.67	1304.83	1270.25	1219.26
70	1197.39	1222.43	1208.66	1205.37	1230.65	1270.34	1281.73	1250.55	1215.25	1160.74
71	1132.06	1161.60	1150.94	1151.83	1176.52	1214.47	1225.28	1191.15	1155.88	1100.47
72	1067.72	1098.03	1091.22	1094.63	1117.73	1154.53	1164.78	1129.71	1094.97	1038.29
73	999.20	1033.34	1028.74	1035.57	1057.08	1090.90	1101.24	1065.87	1031.84	975.66
74	934.94	967.45	966.24	976.48	996.36	1028.13	1037.05	1000.07	968.32	914.96
75	870.44	903.91	904.85	916.88	933.16	964.05	971.14	935.86	906.22	855.38
76	810.00	842.33	844.88	857.47	873.78	900.52	907.57	873.63	845.93	798.72
77	751.58	784.08	787.02	800.66	815.13	839.20	846.03	813.04	788.25	743.99
78	696.69	727.70	731.99	746.38	759.46	781.13	786.79	755.34	732.85	691.43
79	644.50	675.06	679.94	694.64	705.03	726.18	729.84	702.73	681.16	642.42
80	594.59	624.71	629.87	645.43	655.03	672.90	677.76	650.76	632.09	595.74
81	548.63	576.87	583.20	598.06	606.75	623.56	626.44	602.44	585.03	550.83
82	504.18	532.18	539.07	553.43	562.05	576.07	578.59	556.86	540.83	509.29
83	462.46	489.68	496.83	511.27	518.62	531.29	533.55	513.40	498.98	468.68
84	420.70	449.33	456.78	471.58	478.61	489.72	491.18	472.38	459.58	431.24
85	377.66	407.76	418.16	432.84	438.38	449.20	449.53	431.59	420.60	392.52
86	331.71	364.81	378.82	395.96	400.87	408.79	408.85	390.45	380.53	352.58
87	289.98	318.74	333.19	355.89	358.34	366.28	365.36	345.67	336.55	305.68
88	254.72	277.59	290.06	308.77	312.07	319.30	318.62	300.12	291.70	266.94
89	225.37	245.19	253.88	269.49	271.08	277.71	277.51	262.21	256.18	235.76
90	197.90	222.54	225.44	238.41	240.09	244.76	244.55	231.63	231.75	207.05
91	182.47	199.88	198.20	217.37	211.23	222.33	222.34	203.82	207.33	187.76
92	169.92	177.47	182.71	196.32	189.70	199.91	200.13	185.82	183.07	174.35
93	158.70	165.43	170.27	175.48	176.39	177.80	177.98	172.87	170.48	162.87
94	148.29	154.29	158.61	163.46	163.71	165.73	165.95	161.20	159.03	151.83
95	138.68	144.04	148.05	152.75	127.10	149.24	154.45	150.51	143.03	142.13
96	129.81	134.79	138.43	142.47	78.21	118.03	102.86	74.71	98.50	133.02
97	121.83	126.17	129.65	127.09	53.80	86.83	51.27	77.26	64.40	121.19
98	114.25	118.40	121.26	102.54	29.64	55.63	0.47	80.12	40.75	100.43
99	107.41	111.07	110.33	77.99	43.19	25.58	26.59	82.99	36.37	82.62
100	100.96	104.26	95.85	59.91	51.13	81.64	52.76	85.85	45.03	64.88
101	94.89	96.34	81.75	46.85	57.23	91.09	100.08	88.71	50.29	47.14
102	89.13	87.12	67.67	38.37	62.90	85.46	99.09	83.31	57.85	40.09
103	80.99	76.62	53.59	31.72	67.62	80.28	93.40	78.30	64.12	34.11
104	72.77	65.84	43.52	28.74	73.10	75.52	87.92	73.61	70.61	29.16
105	64.55	55.13	31.65	30.07	78.08	70.97	82.93	69.18	75.10	27.41
106	52.72	43.74	21.54	32.97	76.63	66.78	78.22	65.08	74.72	31.00
107	38.54	32.12	16.14	35.58	72.29	62.77	73.89	61.16	70.48	34.47
108	22.73	20.49	14.95	37.83	68.16	59.00	69.61	57.54	66.38	36.99
109	11.17	9.05	17.36	39.52	64.26	55.50	65.74	54.07	62.56	38.38

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**CANDELA TABULATION - (Cont.)**

110	8.21	5.97	19.41	41.83	60.55	52.21	61.97	50.79	58.91	39.92
111	5.42	6.54	21.29	45.69	57.02	48.99	58.43	47.67	55.44	42.40
112	2.62	7.98	22.80	48.66	53.67	46.01	54.98	44.66	52.19	45.34
113	4.09	9.44	23.48	49.32	50.50	43.09	51.76	41.81	49.06	46.18
114	6.16	11.73	24.33	47.01	47.39	40.38	48.64	39.11	46.07	43.40
115	8.75	13.65	26.49	43.94	44.51	37.73	45.70	36.50	43.19	40.42
116	11.63	15.01	29.16	41.09	41.71	35.31	42.89	34.08	40.49	37.65
117	14.11	16.33	30.59	38.34	39.04	32.91	40.19	31.79	37.86	34.96
118	15.49	18.12	29.26	35.70	36.49	30.64	37.58	29.54	35.39	32.46
119	16.09	19.42	27.12	33.21	34.05	28.53	35.14	27.44	33.02	30.05
120	15.87	18.47	25.23	30.78	31.76	26.43	32.76	25.44	30.77	27.86
121	15.20	17.52	23.37	28.54	29.54	24.48	30.51	23.57	28.62	25.75
122	14.19	16.56	21.61	26.40	27.44	22.65	28.38	21.78	26.58	23.80
123	12.97	15.29	19.97	24.39	25.42	20.92	26.34	20.07	24.63	21.93
124	11.82	14.09	18.40	22.47	23.54	19.27	24.41	18.52	22.81	20.23
125	10.72	12.95	16.93	20.84	21.74	17.62	22.53	17.03	21.08	18.62
126	9.71	11.89	15.57	19.21	20.03	15.88	17.39	15.26	19.49	17.08
127	8.77	10.86	14.29	17.58	18.41	10.51	12.26	10.52	17.91	15.66
128	7.91	9.91	13.05	15.95	16.87	8.95	7.15	9.54	16.33	14.30
129	7.07	8.99	11.86	14.55	15.41	12.03	3.10	11.68	14.93	13.06
130	6.30	8.15	10.74	13.25	14.05	10.93	10.50	10.59	13.60	11.89
131	5.58	7.34	9.70	12.02	12.74	9.81	10.63	9.54	12.33	10.77
132	4.90	6.58	8.77	10.88	11.51	8.75	9.59	8.56	11.12	9.73
133	4.27	5.86	7.84	9.80	10.32	7.82	8.61	7.57	9.99	8.78
134	3.67	5.17	6.99	8.77	9.29	6.94	7.69	6.70	8.94	7.83
135	3.14	4.54	6.20	7.81	8.25	6.16	6.82	5.89	7.95	6.97
136	2.66	3.95	5.45	6.92	7.21	5.42	6.00	5.14	7.03	6.14
137	2.23	3.42	4.75	6.06	6.30	4.73	5.22	4.46	6.15	5.37
138	1.85	2.94	4.09	5.27	5.42	4.13	4.49	3.84	5.32	4.65
139	1.50	2.50	3.48	4.51	4.60	3.54	3.82	3.29	4.54	3.97
140	1.20	2.08	2.91	3.82	3.82	3.08	3.20	2.78	3.79	3.35
141	0.92	1.69	2.39	3.17	3.13	2.61	2.63	2.34	3.11	2.77
142	0.70	1.34	1.94	2.57	2.52	2.21	2.10	1.95	2.51	2.23
143	0.52	1.03	1.54	2.02	1.97	1.85	1.61	1.62	1.97	1.73
144	0.38	0.75	1.17	1.52	1.49	1.51	1.18	1.31	1.51	1.29
145	0.28	0.50	0.85	1.10	1.06	0.97	0.81	0.93	1.10	0.94
146	0.20	0.31	0.58	0.77	0.71	0.27	0.52	0.21	0.75	0.67
147	0.13	0.18	0.37	0.50	0.43	0.10	0.19	0.10	0.48	0.45
148	0.09	0.11	0.22	0.30	0.24	0.12	0.08	0.15	0.29	0.27
149	0.08	0.09	0.12	0.16	0.13	0.15	0.08	0.13	0.17	0.16
150	0.08	0.08	0.09	0.09	0.07	0.07	0.08	0.09	0.10	0.10
151	0.08	0.08	0.09	0.07	0.07	0.06	0.07	0.09	0.09	0.10
152	0.08	0.08	0.08	0.07	0.07	0.06	0.07	0.09	0.09	0.10
153	0.08	0.08	0.08	0.07	0.07	0.05	0.07	0.08	0.09	0.10
154	0.08	0.08	0.08	0.07	0.06	0.05	0.07	0.08	0.09	0.10
155	0.07	0.08	0.08	0.07	0.06	0.05	0.07	0.08	0.09	0.10
156	0.07	0.08	0.07	0.07	0.06	0.05	0.07	0.08	0.09	0.10
157	0.07	0.07	0.07	0.07	0.06	0.05	0.07	0.08	0.09	0.10
158	0.07	0.07	0.07	0.07	0.06	0.05	0.07	0.08	0.09	0.10
159	0.07	0.07	0.07	0.07	0.06	0.05	0.07	0.08	0.09	0.09
160	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.08	0.09	0.09
161	0.07	0.07	0.07	0.07	0.06	0.06	0.08	0.08	0.09	0.09
162	0.07	0.07	0.07	0.06	0.06	0.06	0.08	0.09	0.09	0.09
163	0.07	0.07	0.07	0.06	0.06	0.06	0.08	0.09	0.09	0.09
164	0.06	0.07	0.07	0.06	0.06	0.06	0.08	0.09	0.09	0.09
165	0.06	0.06	0.07	0.06	0.06	0.06	0.08	0.09	0.09	0.09

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

166	0.06	0.06	0.07	0.06	0.06	0.06	0.09	0.09	0.09	0.09
167	0.06	0.06	0.06	0.06	0.06	0.05	0.09	0.09	0.09	0.09
168	0.06	0.06	0.06	0.06	0.05	0.05	0.08	0.09	0.09	0.09
169	0.06	0.06	0.06	0.06	0.05	0.05	0.08	0.09	0.09	0.09
170	0.06	0.06	0.06	0.05	0.05	0.05	0.08	0.09	0.09	0.09
171	0.06	0.05	0.06	0.05	0.05	0.05	0.08	0.09	0.09	0.09
172	0.05	0.05	0.05	0.05	0.05	0.05	0.08	0.08	0.09	0.09
173	0.05	0.05	0.05	0.05	0.04	0.04	0.08	0.08	0.08	0.08
174	0.05	0.05	0.05	0.04	0.04	0.04	0.08	0.08	0.08	0.08
175	0.04	0.04	0.04	0.04	0.04	0.03	0.07	0.07	0.07	0.07
176	0.04	0.04	0.04	0.03	0.03	0.03	0.07	0.07	0.07	0.07
177	0.04	0.04	0.04	0.04	0.03	0.04	0.06	0.07	0.07	0.07
178	0.04	0.04	0.04	0.04	0.04	0.04	0.06	0.06	0.06	0.07
179	0.05	0.05	0.04	0.04	0.04	0.05	0.06	0.06	0.06	0.07
180	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05

**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	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30	1050.30
1	1050.43	1050.70	1051.47	1051.32	1052.06	1052.27	1051.99	1052.87	1053.38	1052.51
2	1050.18	1051.49	1052.95	1053.19	1054.37	1054.35	1055.19	1055.62	1056.28	1054.61
3	1050.35	1052.02	1054.71	1055.63	1057.11	1058.27	1058.35	1059.19	1060.12	1057.54
4	1051.91	1054.42	1056.88	1058.79	1060.09	1061.33	1061.85	1062.28	1063.35	1060.75
5	1053.40	1056.41	1059.14	1062.05	1063.39	1065.46	1065.89	1067.02	1066.52	1064.75
6	1054.26	1058.80	1061.74	1065.40	1067.21	1069.18	1070.64	1071.30	1070.93	1068.08
7	1057.00	1061.52	1064.69	1068.68	1070.96	1073.18	1074.61	1075.66	1075.14	1072.19
8	1059.52	1064.32	1067.74	1072.29	1074.56	1077.20	1078.69	1080.08	1079.28	1076.19
9	1061.69	1067.74	1071.40	1075.85	1078.26	1081.04	1082.87	1084.23	1084.18	1080.21
10	1064.48	1070.80	1074.40	1079.73	1082.53	1085.94	1087.77	1089.70	1089.29	1084.82
11	1067.30	1073.63	1078.62	1083.90	1087.06	1091.88	1093.29	1095.62	1094.93	1090.53
12	1070.02	1077.31	1082.60	1088.65	1092.99	1097.89	1099.75	1102.09	1100.46	1096.31
13	1073.46	1081.10	1087.94	1094.45	1099.96	1105.31	1106.90	1109.29	1108.08	1103.09
14	1077.64	1086.29	1093.58	1101.55	1107.14	1113.01	1115.05	1117.94	1116.20	1110.93
15	1082.23	1092.39	1100.53	1109.33	1115.19	1123.13	1124.30	1127.26	1126.11	1120.18
16	1088.76	1099.16	1108.05	1117.78	1124.99	1132.62	1134.57	1137.63	1136.27	1129.58
17	1095.43	1106.98	1116.39	1127.49	1134.71	1143.07	1145.04	1148.51	1146.84	1139.72
18	1103.11	1115.68	1126.14	1137.28	1145.01	1153.88	1156.31	1160.56	1157.99	1150.09
19	1111.07	1124.95	1136.14	1147.69	1156.18	1165.51	1168.67	1173.15	1170.71	1161.93
20	1120.27	1135.24	1147.55	1159.55	1168.21	1177.31	1181.17	1185.90	1183.33	1174.31
21	1129.74	1146.10	1158.34	1171.35	1180.30	1190.01	1195.02	1199.35	1197.38	1187.11
22	1140.09	1157.09	1170.31	1185.14	1193.35	1203.76	1209.27	1213.77	1211.61	1200.52
23	1151.06	1170.07	1183.92	1198.69	1207.50	1218.54	1224.39	1229.35	1226.72	1215.26
24	1162.74	1182.83	1197.33	1213.76	1222.31	1234.28	1240.08	1244.55	1242.53	1229.95
25	1174.78	1196.44	1212.32	1229.29	1238.75	1250.27	1256.36	1261.47	1259.43	1245.60
26	1188.19	1210.73	1226.90	1244.88	1255.06	1268.28	1273.87	1279.75	1276.08	1262.54
27	1201.71	1225.66	1242.93	1262.10	1273.39	1286.92	1291.82	1297.56	1293.97	1280.11
28	1216.55	1241.70	1260.05	1279.65	1291.43	1304.73	1310.74	1316.46	1311.34	1296.76
29	1231.59	1258.03	1276.88	1297.76	1308.90	1322.86	1329.17	1335.29	1329.18	1313.44
30	1246.95	1275.20	1294.26	1314.87	1327.02	1340.84	1347.51	1353.21	1346.64	1330.75
31	1262.57	1290.79	1310.94	1332.62	1344.33	1358.69	1366.28	1371.82	1364.48	1348.56
32	1277.72	1307.72	1328.67	1350.31	1362.63	1377.12	1385.16	1390.35	1383.14	1365.58
33	1293.31	1323.53	1346.14	1368.36	1380.92	1395.75	1403.92	1408.86	1400.44	1382.45
34	1309.58	1340.06	1362.91	1386.18	1399.29	1413.53	1423.57	1427.03	1418.93	1399.67
35	1324.98	1357.76	1381.37	1404.25	1417.13	1432.60	1441.77	1445.47	1437.30	1417.15
36	1341.48	1373.85	1397.89	1423.24	1436.25	1451.19	1460.91	1464.82	1456.62	1435.77

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

37	1357.78	1391.42	1416.17	1441.36	1454.86	1469.72	1480.36	1484.25	1473.99	1453.33
38	1374.50	1409.06	1434.37	1459.89	1472.06	1487.33	1499.03	1502.46	1492.40	1471.14
39	1390.44	1426.97	1452.07	1478.16	1490.24	1505.25	1517.67	1521.34	1510.43	1487.92
40	1407.54	1444.85	1471.30	1496.65	1508.70	1523.19	1536.73	1540.23	1529.44	1506.48
41	1423.97	1462.42	1488.59	1514.44	1526.19	1540.56	1555.48	1559.62	1548.57	1524.25
42	1440.03	1480.02	1507.23	1533.65	1544.13	1559.37	1575.26	1578.74	1566.73	1542.23
43	1457.73	1497.17	1525.93	1553.59	1560.90	1576.07	1593.55	1597.13	1585.54	1561.16
44	1474.65	1514.72	1544.66	1572.29	1578.06	1593.66	1611.37	1616.38	1604.55	1578.73
45	1492.38	1533.72	1563.78	1590.46	1596.66	1609.24	1628.91	1634.32	1622.93	1596.89
46	1510.30	1551.93	1583.13	1608.53	1610.61	1624.77	1645.91	1651.98	1640.53	1613.41
47	1526.83	1569.95	1601.96	1625.51	1626.07	1638.07	1661.43	1667.96	1657.52	1630.10
48	1543.40	1587.07	1618.17	1641.83	1639.99	1650.62	1675.53	1684.10	1673.07	1645.13
49	1558.28	1603.29	1634.83	1657.13	1653.21	1661.78	1688.48	1698.08	1687.36	1659.77
50	1573.46	1619.54	1649.69	1670.41	1662.89	1670.41	1699.05	1710.12	1699.69	1672.36
51	1587.61	1633.05	1662.07	1681.15	1671.45	1676.60	1707.26	1718.89	1709.15	1682.81
52	1599.72	1645.24	1673.09	1690.05	1676.88	1681.05	1712.34	1724.92	1714.81	1690.24
53	1610.18	1654.65	1681.81	1695.08	1678.84	1679.98	1712.83	1726.85	1717.93	1693.96
54	1618.01	1660.96	1686.43	1696.60	1677.36	1675.46	1709.48	1725.37	1716.02	1695.10
55	1622.76	1664.37	1688.17	1693.92	1672.21	1666.76	1701.91	1718.94	1712.09	1692.55
56	1623.95	1663.70	1684.98	1687.15	1663.59	1654.34	1690.07	1708.33	1701.80	1684.90
57	1621.47	1658.66	1678.69	1676.08	1649.39	1637.06	1673.24	1693.20	1688.10	1673.80
58	1615.52	1650.25	1666.82	1660.16	1632.58	1613.64	1651.12	1671.45	1667.47	1658.43
59	1605.11	1636.34	1650.32	1639.34	1608.56	1586.44	1623.75	1644.84	1642.51	1637.33
60	1589.99	1619.40	1629.37	1614.63	1581.28	1554.87	1590.22	1612.03	1612.64	1611.19
61	1570.94	1595.43	1601.33	1582.06	1547.14	1516.09	1551.61	1573.84	1576.75	1578.88
62	1546.44	1566.39	1569.01	1544.14	1508.17	1474.14	1507.29	1529.01	1533.57	1540.20
63	1515.53	1530.99	1531.03	1500.99	1464.01	1425.15	1456.88	1478.15	1483.95	1494.61
64	1479.70	1489.76	1486.66	1451.63	1413.19	1371.68	1401.41	1422.16	1430.83	1445.08
65	1437.32	1443.29	1436.75	1397.92	1358.73	1314.61	1342.60	1361.08	1370.40	1389.11
66	1391.92	1390.90	1381.05	1338.50	1299.85	1254.03	1280.34	1295.39	1307.42	1326.73
67	1340.86	1333.09	1321.81	1275.48	1237.28	1190.89	1213.02	1226.99	1238.55	1261.10
68	1284.80	1272.97	1259.44	1208.72	1172.68	1124.19	1145.95	1155.98	1168.03	1193.25
69	1226.11	1208.13	1192.61	1141.21	1105.02	1058.75	1077.41	1085.83	1097.41	1123.13
70	1163.38	1141.75	1124.84	1072.12	1038.46	992.43	1008.72	1013.93	1024.89	1050.65
71	1099.53	1074.04	1055.37	1003.38	970.68	927.57	941.99	944.91	954.59	980.56
72	1034.94	1007.21	988.35	937.83	905.76	866.38	876.57	879.79	887.63	913.27
73	969.97	941.09	922.31	873.05	844.16	806.27	816.07	816.14	823.03	848.03
74	907.02	877.37	859.06	812.69	784.37	750.19	756.55	756.67	764.26	786.93
75	846.09	817.64	799.23	753.86	728.84	696.22	702.30	700.49	706.84	728.61
76	788.05	759.04	741.23	700.16	675.02	645.56	649.71	647.70	653.33	672.95
77	732.65	705.21	687.34	647.31	625.74	596.86	601.27	597.84	601.92	621.56
78	680.26	652.11	635.90	599.12	578.52	551.98	555.19	550.76	554.68	573.74
79	631.26	604.24	587.27	552.89	533.94	509.38	511.63	507.26	509.51	528.12
80	583.82	557.69	541.25	509.32	492.22	468.85	470.51	465.08	466.82	484.85
81	540.05	514.06	497.65	467.78	452.02	429.98	430.46	424.31	425.35	443.28
82	497.69	472.63	455.98	427.56	413.32	392.21	391.56	382.45	382.59	402.42
83	458.02	431.84	414.63	386.38	372.88	350.79	348.74	336.41	336.52	358.14
84	419.01	390.75	371.77	340.22	327.97	305.05	302.42	291.99	292.21	312.16
85	378.80	344.73	325.02	295.61	284.75	265.76	263.78	255.51	256.08	272.44
86	333.72	299.67	282.34	257.79	249.84	234.33	236.77	225.44	226.60	240.46
87	289.52	261.14	248.33	227.48	225.90	205.01	209.77	197.07	198.19	218.68
88	253.97	231.04	224.64	198.43	201.97	185.29	183.19	180.62	181.65	196.89
89	229.58	201.69	200.95	181.53	178.30	172.41	170.48	168.13	169.08	175.13
90	205.19	184.01	177.58	169.06	166.25	160.67	158.87	156.92	157.78	163.09
91	180.80	171.32	165.56	157.52	154.93	149.91	148.16	146.59	147.26	152.34
92	168.26	159.83	154.50	147.14	144.59	140.07	138.35	136.94	137.56	141.96

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

93	156.83	149.23	144.42	137.50	135.11	131.16	129.49	128.21	128.89	132.81
94	146.57	139.56	135.27	128.91	126.66	122.90	121.46	120.27	120.80	124.28
95	137.06	130.76	126.70	120.75	118.66	115.43	113.84	112.99	113.34	116.55
96	128.48	122.51	118.87	113.41	111.41	108.45	102.73	104.86	106.47	109.19
97	120.28	114.99	111.58	106.52	104.66	101.93	69.05	57.99	89.80	92.09
98	113.01	107.97	104.82	100.23	98.42	94.05	46.50	9.85	60.47	75.00
99	104.60	101.46	98.56	94.40	92.66	79.60	24.85	22.33	30.85	57.90
100	93.32	95.29	92.70	88.93	86.90	65.07	20.36	36.21	1.23	40.81
101	80.23	88.52	87.33	83.50	79.93	50.55	30.98	50.10	23.78	24.59
102	66.76	79.56	82.07	78.07	70.18	39.02	37.70	63.98	46.48	60.35
103	55.08	70.61	76.37	72.65	59.56	26.12	41.83	60.46	69.19	62.56
104	44.66	61.65	69.73	65.05	48.68	17.43	46.71	56.91	66.17	58.90
105	36.47	51.76	61.31	54.84	37.41	15.42	52.36	53.50	62.38	55.35
106	26.54	41.55	50.90	42.97	27.37	19.20	57.59	50.27	58.80	52.11
107	18.69	29.87	39.53	30.19	17.33	21.59	55.89	47.22	55.45	48.93
108	14.63	18.25	28.48	17.42	7.34	23.41	52.60	44.30	52.24	45.84
109	15.00	9.98	17.43	8.28	8.38	25.27	49.44	41.52	49.11	42.96
110	17.72	7.98	6.46	5.18	9.43	27.14	46.49	38.88	46.18	40.27
111	19.88	6.12	2.12	2.11	11.23	29.73	43.59	36.36	43.32	37.67
112	21.25	7.96	1.88	3.17	12.66	33.22	40.89	33.92	40.62	35.14
113	22.26	9.20	3.17	3.98	14.18	35.89	38.27	31.59	37.94	32.76
114	23.25	10.16	4.89	4.66	15.85	35.43	35.77	29.39	35.49	30.48
115	24.12	11.31	6.76	6.05	16.70	33.10	33.38	27.31	33.11	28.32
116	25.88	12.86	8.24	8.21	18.04	30.71	31.10	25.33	30.85	26.25
117	26.75	14.11	9.29	10.79	20.71	28.50	28.92	23.47	28.70	24.32
118	26.79	15.08	9.97	13.71	22.67	26.38	26.84	21.67	26.66	22.46
119	25.05	16.75	10.39	16.34	21.65	24.35	24.89	19.98	24.72	20.78
120	23.10	17.75	11.35	17.41	20.05	22.45	23.03	18.38	22.88	19.10
121	21.44	17.42	12.25	16.71	18.44	20.65	21.27	16.86	21.09	17.42
122	19.92	16.13	12.59	15.19	16.84	19.00	19.67	15.43	19.44	16.01
123	18.40	14.82	11.69	13.89	15.45	17.42	18.06	14.07	17.89	14.62
124	16.88	13.63	10.71	12.71	14.16	15.95	16.46	12.80	16.41	13.30
125	15.53	12.46	9.76	11.56	12.92	14.56	15.04	11.56	15.00	12.05
126	14.26	11.37	8.89	10.48	11.77	13.24	13.69	10.40	13.66	10.89
127	13.04	10.32	8.05	9.44	10.68	12.01	12.40	8.53	12.30	9.76
128	11.89	9.36	7.25	8.47	9.63	10.85	11.17	6.65	9.28	7.47
129	10.81	8.45	6.53	7.57	8.66	9.78	10.04	4.76	5.86	4.61
130	9.78	7.60	5.83	6.74	7.71	8.79	8.95	6.26	2.43	5.71
131	8.79	6.80	5.19	5.97	6.84	7.80	7.92	5.54	5.93	5.59
132	7.88	6.04	4.59	5.26	6.05	6.90	6.99	4.74	5.27	4.85
133	7.00	5.35	4.01	4.62	5.30	6.06	6.10	4.09	4.55	4.19
134	6.21	4.70	3.49	4.02	4.60	5.27	5.27	3.50	3.87	3.57
135	5.47	4.11	2.99	3.46	3.96	4.52	4.48	2.94	3.24	3.01
136	4.79	3.57	2.55	2.95	3.36	3.83	3.78	2.45	2.66	2.53
137	4.11	3.05	2.14	2.47	2.79	3.19	3.13	2.00	2.13	2.11
138	3.51	2.58	1.79	2.04	2.28	2.59	2.55	1.62	1.65	1.79
139	2.94	2.15	1.47	1.65	1.84	2.04	2.03	1.32	1.21	1.47
140	2.44	1.75	1.19	1.29	1.46	1.53	1.55	1.05	0.83	1.19
141	2.00	1.39	0.94	0.97	1.11	1.11	1.13	0.82	0.54	0.91
142	1.62	1.06	0.73	0.69	0.81	0.77	0.76	0.58	0.34	0.64
143	1.27	0.78	0.56	0.46	0.55	0.51	0.47	0.37	0.20	0.40
144	0.96	0.53	0.43	0.28	0.35	0.32	0.26	0.20	0.11	0.18
145	0.69	0.34	0.31	0.16	0.20	0.18	0.13	0.08	0.06	0.06
146	0.47	0.21	0.20	0.11	0.11	0.10	0.09	0.07	0.05	0.05
147	0.30	0.13	0.12	0.10	0.09	0.09	0.09	0.07	0.05	0.05
148	0.18	0.10	0.10	0.10	0.09	0.09	0.09	0.07	0.05	0.06



**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

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

**Vert. Horizontal Angles**

	<u>300</u>	<u>315</u>	<u>330</u>	<u>345</u>	<u>360</u>
0	1050.30	1050.30	1050.30	1050.30	1050.30
1	1052.12	1051.69	1051.03	1050.31	1050.15
2	1054.56	1053.60	1052.34	1050.86	1049.98
3	1057.29	1055.31	1054.16	1052.39	1050.23
4	1060.20	1058.33	1055.91	1053.02	1050.92
5	1063.75	1060.61	1058.47	1054.97	1053.05
6	1067.06	1064.09	1061.24	1057.16	1054.91
7	1070.74	1067.18	1063.68	1059.11	1056.42
8	1074.38	1070.57	1066.61	1061.71	1058.89
9	1077.99	1073.65	1069.44	1064.32	1060.46
10	1082.43	1076.72	1071.75	1066.44	1062.67
11	1086.72	1080.47	1075.46	1069.27	1064.55
12	1092.81	1085.44	1079.53	1072.05	1067.72
13	1099.73	1091.20	1085.30	1076.00	1071.13
14	1106.82	1098.24	1090.96	1080.92	1074.76
15	1115.31	1105.26	1097.43	1086.55	1079.71
16	1123.99	1113.74	1105.21	1092.76	1084.29
17	1133.62	1122.28	1112.66	1100.01	1091.23
18	1143.82	1132.00	1121.63	1107.76	1098.38
19	1154.75	1141.40	1131.25	1115.92	1105.77

IES INDOOR REPORT  
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CANDELA TABULATION - (Cont.)

20	1166.28	1152.14	1140.88	1124.69	1114.12
21	1177.95	1162.46	1151.30	1134.52	1122.11
22	1190.71	1173.86	1161.47	1144.10	1132.08
23	1204.08	1186.07	1172.43	1154.35	1141.36
24	1218.21	1198.64	1184.76	1165.68	1152.00
25	1233.64	1212.84	1198.19	1177.45	1163.23
26	1248.74	1226.78	1212.64	1190.07	1174.95
27	1265.60	1242.49	1225.92	1203.01	1187.19
28	1280.62	1257.77	1240.85	1217.04	1199.84
29	1297.35	1273.42	1256.04	1231.19	1213.41
30	1312.67	1288.49	1270.52	1245.65	1226.60
31	1329.15	1303.28	1286.51	1260.30	1240.10
32	1346.16	1319.65	1300.55	1274.25	1253.90
33	1361.83	1335.09	1316.31	1289.75	1267.88
34	1378.38	1351.32	1332.20	1304.27	1282.74
35	1395.60	1366.95	1348.51	1319.49	1297.08
36	1412.45	1383.22	1364.17	1335.66	1311.04
37	1428.73	1400.41	1379.99	1350.35	1327.21
38	1445.49	1416.03	1396.11	1367.37	1342.06
39	1462.72	1432.41	1413.00	1384.05	1357.43
40	1479.43	1448.84	1430.14	1400.37	1373.14
41	1496.87	1465.02	1447.10	1416.71	1389.80
42	1513.63	1481.86	1463.96	1433.31	1405.67
43	1530.70	1497.54	1481.04	1450.76	1422.35
44	1547.80	1513.45	1498.26	1468.03	1438.44
45	1564.76	1529.19	1514.76	1485.26	1454.52
46	1580.09	1543.86	1531.57	1503.08	1471.66
47	1594.85	1558.75	1547.78	1520.15	1488.41
48	1608.30	1573.27	1562.73	1537.92	1505.68
49	1621.98	1586.95	1578.20	1553.97	1522.44
50	1632.92	1598.23	1591.28	1569.48	1537.95
51	1643.14	1609.08	1604.87	1584.67	1552.60
52	1650.05	1617.04	1614.44	1597.19	1567.53
53	1653.78	1623.17	1623.14	1608.58	1579.28
54	1654.92	1625.05	1627.85	1617.51	1589.61
55	1652.60	1624.28	1629.66	1623.23	1597.22
56	1646.69	1619.19	1629.87	1626.76	1601.12
57	1635.57	1610.48	1624.28	1626.62	1602.82
58	1621.20	1598.80	1615.96	1622.09	1599.71
59	1601.51	1581.54	1601.92	1613.90	1593.98
60	1576.80	1559.80	1583.33	1600.78	1583.14
61	1547.82	1532.22	1560.28	1581.72	1567.70
62	1512.50	1500.48	1530.67	1559.21	1548.57
63	1469.75	1462.37	1495.56	1529.65	1522.94
64	1422.76	1419.95	1454.62	1495.35	1492.95
65	1370.36	1371.94	1409.42	1454.67	1455.40
66	1313.38	1318.94	1359.25	1407.38	1415.22
67	1251.47	1262.13	1302.91	1356.50	1367.72
68	1185.95	1201.06	1243.35	1300.96	1315.81
69	1117.80	1136.74	1178.95	1239.87	1257.85
70	1048.43	1070.85	1113.04	1175.64	1197.39
71	980.36	1005.11	1046.34	1107.20	1132.06
72	913.86	939.51	979.38	1040.46	1067.72
73	849.55	875.58	913.46	972.49	999.20
74	788.91	815.77	850.84	907.92	934.94
75	731.30	757.49	790.77	844.55	870.44

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

76	676.93	702.46	733.74	784.84	810.00
77	625.02	650.88	679.62	727.79	751.58
78	577.89	602.10	628.78	672.91	696.69
79	532.52	556.15	580.64	622.74	644.50
80	490.14	512.70	535.42	574.12	594.59
81	449.25	471.53	493.33	529.48	548.63
82	410.48	431.97	452.37	486.44	504.18
83	370.38	394.67	413.43	445.26	462.46
84	324.07	354.28	373.09	403.84	420.70
85	283.23	308.51	327.22	360.53	377.66
86	249.86	270.70	285.54	315.37	331.71
87	220.88	240.04	252.02	275.79	289.98
88	194.94	218.72	222.69	243.52	254.72
89	180.82	197.41	196.32	221.49	225.37
90	168.32	176.33	181.66	199.47	197.90
91	156.82	164.31	169.15	177.52	182.47
92	146.28	153.22	157.43	165.32	169.92
93	136.53	142.99	147.13	154.36	158.70
94	127.89	133.66	137.54	144.20	148.29
95	120.03	125.38	128.93	134.87	138.68
96	112.45	117.58	120.86	126.42	129.81
97	90.31	110.48	113.47	118.59	121.83
98	64.18	103.76	106.47	111.30	114.25
99	37.97	95.37	100.25	104.69	107.41
100	11.77	80.65	94.43	98.41	100.96
101	25.68	63.09	87.85	92.63	94.89
102	35.26	47.93	77.72	87.28	89.13
103	42.65	30.52	67.53	81.54	80.99
104	50.68	16.92	54.33	74.00	72.77
105	59.79	12.96	39.77	63.34	64.55
106	61.59	16.77	22.34	49.83	52.72
107	58.05	21.29	10.74	35.90	38.54
108	54.66	25.04	8.64	21.98	22.73
109	51.39	28.15	6.74	8.08	11.17
110	48.25	30.40	9.97	2.50	8.21
111	45.27	35.20	12.74	1.58	5.42
112	42.41	40.60	14.96	3.14	2.62
113	39.69	41.47	16.86	4.85	4.09
114	37.08	38.73	18.92	6.57	6.16
115	34.60	36.03	20.98	8.12	8.75
116	32.24	33.50	23.04	9.11	11.63
117	29.95	31.06	25.08	11.20	14.11
118	27.84	28.81	24.90	14.59	15.49
119	25.78	26.66	23.37	17.17	16.09
120	23.83	24.60	21.60	17.53	15.87
121	22.01	22.67	19.93	16.35	15.20
122	20.24	20.89	18.31	14.88	14.19
123	18.61	19.25	16.88	13.66	12.97
124	17.04	17.62	15.48	12.52	11.82
125	15.56	15.99	14.16	11.45	10.72
126	14.16	14.57	12.91	10.44	9.71
127	12.86	13.22	11.71	9.49	8.77
128	11.57	11.97	10.59	8.61	7.91
129	10.38	10.79	9.52	7.75	7.07
130	9.35	9.67	8.56	6.94	6.30
131	8.33	8.63	7.60	6.19	5.58

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

132	7.30	7.64	6.72	5.48	4.90
133	6.39	6.73	5.89	4.83	4.27
134	5.53	5.86	5.10	4.20	3.67
135	4.73	5.05	4.40	3.64	3.14
136	3.98	4.30	3.74	3.13	2.66
137	3.28	3.60	3.14	2.65	2.23
138	2.64	2.96	2.60	2.21	1.85
139	2.08	2.36	2.12	1.81	1.50
140	1.59	1.81	1.69	1.45	1.20
141	1.15	1.32	1.30	1.11	0.92
142	0.78	0.93	0.96	0.81	0.70
143	0.48	0.62	0.66	0.55	0.52
144	0.26	0.39	0.40	0.34	0.38
145	0.13	0.22	0.22	0.20	0.28
146	0.07	0.11	0.11	0.12	0.20
147	0.07	0.08	0.08	0.09	0.13
148	0.07	0.07	0.08	0.08	0.09
149	0.07	0.07	0.08	0.08	0.08
150	0.07	0.07	0.07	0.07	0.08
151	0.07	0.07	0.07	0.07	0.08
152	0.06	0.07	0.07	0.07	0.08
153	0.06	0.07	0.07	0.07	0.08
154	0.06	0.07	0.07	0.07	0.08
155	0.06	0.06	0.07	0.07	0.07
156	0.06	0.06	0.07	0.07	0.07
157	0.06	0.06	0.07	0.07	0.07
158	0.06	0.06	0.06	0.07	0.07
159	0.06	0.06	0.06	0.07	0.07
160	0.06	0.06	0.06	0.07	0.07
161	0.05	0.05	0.06	0.06	0.07
162	0.05	0.05	0.06	0.06	0.07
163	0.05	0.05	0.06	0.06	0.07
164	0.05	0.05	0.06	0.06	0.06
165	0.05	0.05	0.06	0.06	0.06
166	0.05	0.05	0.06	0.06	0.06
167	0.05	0.05	0.05	0.06	0.06
168	0.05	0.05	0.05	0.06	0.06
169	0.05	0.05	0.05	0.06	0.06
170	0.05	0.05	0.05	0.05	0.06
171	0.05	0.05	0.05	0.05	0.06
172	0.05	0.05	0.05	0.05	0.05
173	0.04	0.05	0.05	0.05	0.05
174	0.04	0.04	0.04	0.04	0.05
175	0.04	0.04	0.04	0.04	0.04
176	0.04	0.04	0.04	0.04	0.04
177	0.04	0.04	0.04	0.04	0.04
178	0.05	0.05	0.05	0.05	0.04
179	0.06	0.06	0.05	0.05	0.05
180	0.05	0.05	0.05	0.05	0.05

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPYRA12PG-LED60DMVXX50.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	412.40	5.60	5.60
0-30	965.77	13.20	13.20
0-40	1809.26	24.80	24.80
0-60	4411.92	60.40	60.40
0-80	6671.25	91.30	91.30
0-90	7064.41	96.70	96.70
10-90	6963.2	95.30	95.30
20-40	1396.86	19.10	19.10
20-50	2561.61	35.10	35.10
40-70	3982.89	54.50	54.50
60-80	2259.34	30.90	30.90
70-80	879.11	12.00	12.00
80-90	393.15	5.40	5.40
90-110	192.92	2.60	2.60
90-120	220.17	3.00	3.00
90-130	234.05	3.20	3.20
90-150	238.62	3.30	3.30
90-180	238.68	3.30	3.30
110-180	45.76	0.60	0.60
0-180	7303.09	100.00	100.00

Total Luminaire Efficiency = 100.00%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.21
10-20	311.19
20-30	553.37
30-40	843.49
40-50	1164.75
50-60	1437.91
60-70	1380.23
70-80	879.11
80-90	393.15
90-100	138.84
100-110	54.08
110-120	27.25
120-130	13.88
130-140	4.11
140-150	0.46
150-160	0.04
160-170	0.02
170-180	0.01

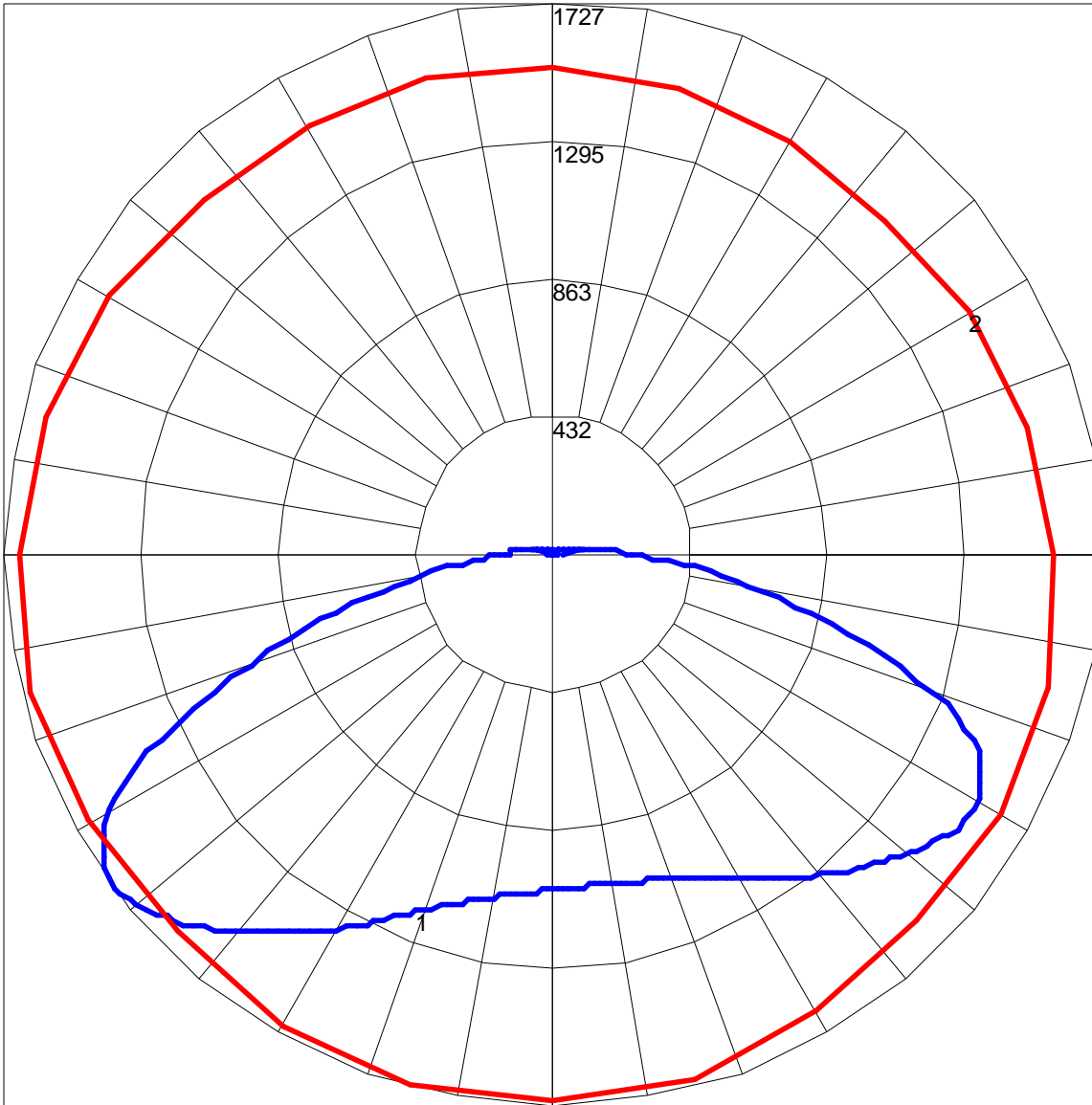
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CPYRA12PG-LED60DMVXX50.IES**

**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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	105	98	93	88	101	96	91	86	91	87	83	86	83	80	82	79	77	74
2	93	83	74	67	90	80	72	66	76	69	64	72	67	62	68	64	60	57
3	83	70	60	52	80	68	59	52	65	57	50	61	55	49	58	52	48	45
4	75	61	50	42	72	59	49	42	56	47	41	53	46	40	50	44	39	36
5	68	53	42	35	65	51	42	34	49	40	34	46	39	33	44	37	32	30
6	62	47	36	29	60	45	36	29	43	35	28	41	33	28	39	32	27	25
7	57	42	32	25	55	41	31	25	39	30	24	37	29	24	35	28	23	21
8	53	37	28	21	51	37	28	21	35	27	21	33	26	21	32	25	20	18
9	49	34	25	19	47	33	25	19	32	24	18	30	23	18	29	23	18	16
10	46	31	22	17	44	30	22	16	29	21	16	28	21	16	27	20	16	14

POLAR GRAPH



Maximum Candela = 1726.85 Located At Horizontal Angle = 255, Vertical Angle = 53  
# 1 - Vertical Plane Through Horizontal Angles (255 - 75) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (53) (Through Max. Cd.)