



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] BLP-22-A-D

[LUMINAIRE] 35W POWER SETTING 3500K CCT

[TESTLAB]

[TESTDATE] 2023-01-05

[ISSUEDATE] 2023-01-16 13:41:45

[NEARFIELD]

[LAMPPOSITION] 0,0

[OTHER] EVERFINE GO-3000H_V1 SYSTEM

[MANUFAC] Lamar LED

[OTHER]

[OTHER]	Gamma(deg)	Fz(lm)	Ft(lm)	%Lum	%Lamp
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[OTHER]	0- 10	126.72	126.72	3.23	3.23
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[OTHER]	10- 20	361.71	488.44	12.44	12.44
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[OTHER]	20- 30	551.62	1040.05	26.49	26.49
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[OTHER]	30- 40	666.01	1706.06	43.45	43.45
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[OTHER]	40- 50	696.58	2402.65	61.19	61.19
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[OTHER]	50- 60	633.66	3036.30	77.33	77.33
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[OTHER]	60- 70	490.79	3527.09	89.83	89.83
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[OTHER]	70- 80	300.65	3827.74	97.49	97.49
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[OTHER]	80- 90	98.50	3926.25	100.00	100.00
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[OTHER]	90-100	0.00	3926.25	100.00	100.00
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[OTHER]	100-110	0.00	3926.25	100.00	100.00
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[OTHER]	110-120	0.00	3926.25	100.00	100.00
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[OTHER]	120-130	0.00	3926.25	100.00	100.00
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[OTHER]	130-140	0.00	3926.25	100.00	100.00
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[OTHER]	140-150	0.00	3926.25	100.00	100.00
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[OTHER]	150-160	0.00	3926.25	100.00	100.00
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[OTHER]	160-170	0.00	3926.25	100.00	100.00
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[OTHER]	170-180	0.00	3926.25	100.00	100.00
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[OTHER]

Note: Candela values converted from Type-B to Type-C

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CHARACTERISTICS

Lumens Per Lamp	3926.2 (1 lamp)
Total Lamp Lumens	3926.2
Luminaire Lumens	3924
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	34.42
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.28
Spacing Criterion (Diagonal)	1.38
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	2.00 ft
Luminous Width (90-270)	20.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	350	342	348
55	334	339	337
65	321	317	318
75	315	298	284
85	319	296	215

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION

	<u>0.0</u>	<u>2.5</u>	<u>5.0</u>	<u>7.5</u>	<u>10.0</u>	<u>12.5</u>	<u>15.0</u>	<u>17.5</u>	<u>20.0</u>	<u>22.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1342.29	1342.18	1342.10	1342.04	1342.01	1342.00	1342.02	1342.06	1342.13	1342.22
5.0	1329.79	1329.58	1329.42	1329.31	1329.25	1329.23	1329.26	1329.34	1329.47	1329.65
7.5	1317.30	1316.98	1316.74	1316.58	1316.48	1316.45	1316.50	1316.62	1316.81	1317.08
10.0	1304.80	1304.39	1304.07	1303.84	1303.71	1303.68	1303.74	1303.90	1304.15	1304.49
12.5	1292.31	1291.79	1291.39	1291.11	1290.95	1290.90	1290.97	1291.16	1291.47	1291.90
15.0	1279.81	1279.20	1278.72	1278.38	1278.18	1278.12	1278.20	1278.42	1278.61	1277.80
17.5	1267.32	1266.60	1266.04	1265.65	1265.41	1265.33	1265.42	1265.26	1264.12	1263.17
20.0	1254.82	1254.01	1253.37	1252.92	1252.64	1252.54	1252.45	1250.95	1249.65	1248.56
22.5	1230.74	1229.94	1229.51	1229.46	1229.77	1230.46	1230.08	1229.55	1229.42	1229.68
25.0	1206.66	1205.79	1205.33	1205.27	1205.62	1205.85	1204.85	1204.27	1204.11	1204.38
27.5	1170.99	1170.19	1170.02	1170.50	1171.61	1171.85	1171.91	1172.63	1173.99	1175.66
30.0	1135.32	1134.49	1134.34	1134.86	1136.04	1135.50	1135.58	1136.35	1137.81	1137.98
32.5	1099.66	1098.81	1098.67	1099.24	1099.82	1099.20	1099.30	1100.12	1100.55	1100.41
35.0	1063.99	1063.14	1063.01	1063.62	1063.59	1062.96	1063.07	1063.73	1063.10	1062.92
37.5	1028.32	1027.46	1027.36	1028.00	1027.41	1026.76	1026.86	1026.75	1025.74	1025.52
40.0	992.65	991.80	991.71	992.38	991.27	990.59	990.69	989.55	988.47	988.19
42.5	956.99	956.14	956.06	956.66	955.17	954.47	954.43	952.45	951.28	950.86
45.0	921.32	920.49	920.43	920.64	919.12	918.38	917.52	915.44	914.17	912.72
47.5	869.33	868.67	869.14	869.90	869.67	870.57	871.00	871.24	872.62	873.24
50.0	817.33	816.67	817.13	817.59	817.40	818.32	818.21	818.53	819.72	819.88
52.5	765.34	764.68	765.12	765.32	765.16	766.11	765.56	765.94	766.50	766.71
55.0	713.35	712.69	713.10	713.09	712.97	713.64	713.02	713.45	713.48	713.72
57.5	661.36	660.71	661.08	660.90	660.80	661.12	660.58	661.06	660.64	660.91
60.0	609.37	608.72	609.06	608.74	608.66	608.70	608.24	608.66	607.96	608.24
62.5	557.38	556.74	557.03	556.60	556.54	556.37	555.99	556.08	555.43	555.71
65.0	505.38	504.75	504.99	504.49	504.45	504.12	503.81	503.64	503.04	503.03
67.5	454.38	453.78	453.97	453.40	453.31	452.80	452.47	451.98	451.30	450.80
70.0	403.38	402.82	402.98	402.41	402.34	401.78	401.51	400.89	400.27	399.57
72.5	353.37	352.88	353.01	352.44	352.35	351.72	351.42	350.63	349.98	349.04
75.0	303.35	302.94	303.08	302.56	302.49	301.89	301.64	300.86	300.30	299.34
77.5	253.34	253.01	253.14	252.69	252.66	252.11	251.91	251.18	250.71	249.80
80.0	203.32	203.07	203.18	202.84	202.83	202.37	202.21	201.57	201.19	200.38
82.5	153.31	153.14	153.26	153.00	152.97	152.65	152.54	152.02	151.73	151.08
85.0	103.29	103.22	103.33	103.17	103.19	102.95	102.86	102.52	102.26	101.84
87.5	53.28	53.29	53.39	53.34	53.39	53.27	53.25	53.04	52.92	52.66
90.0	3.26	3.36	3.46	3.52	3.58	3.60	3.62	3.59	3.55	3.51

Vert. Angles **Horizontal Angles**

	<u>25.0</u>	<u>27.5</u>	<u>30.0</u>	<u>32.5</u>	<u>35.0</u>	<u>37.5</u>	<u>40.0</u>	<u>42.5</u>	<u>45.0</u>	<u>47.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1342.33	1342.46	1342.62	1342.81	1343.01	1343.24	1343.49	1343.76	1344.06	1344.37
5.0	1329.87	1330.15	1330.47	1330.83	1331.24	1331.70	1332.20	1332.74	1333.32	1333.95
7.5	1317.41	1317.82	1318.29	1318.84	1319.45	1320.13	1320.88	1321.56	1321.91	1322.76
10.0	1304.94	1305.47	1306.08	1306.05	1306.06	1306.19	1306.43	1306.79	1307.25	1307.83
12.5	1291.90	1291.50	1291.23	1291.11	1291.12	1291.28	1291.57	1292.00	1292.58	1293.29
15.0	1277.14	1276.65	1276.33	1276.17	1276.18	1276.35	1276.69	1277.04	1276.62	1276.40
17.5	1262.40	1261.82	1261.43	1261.23	1261.00	1260.20	1259.24	1258.51	1258.00	1257.73
20.0	1247.67	1246.99	1246.53	1245.02	1243.43	1242.08	1240.98	1240.23	1239.54	1239.20
22.5	1230.33	1231.01	1229.49	1227.43	1225.64	1224.12	1222.87	1221.81	1219.77	1217.96
25.0	1204.50	1203.68	1203.31	1203.40	1203.95	1204.49	1203.31	1200.48	1198.04	1195.99
27.5	1176.21	1176.47	1176.06	1176.13	1175.96	1175.01	1174.61	1174.77	1175.49	1173.38
30.0	1138.57	1139.87	1141.90	1143.47	1144.74	1145.04	1144.55	1144.65	1143.85	1143.16

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

32.5	1101.03	1102.37	1103.36	1103.92	1105.25	1107.36	1109.85	1111.29	1110.41	1109.56
35.0	1063.52	1064.26	1064.04	1064.61	1065.98	1067.30	1067.88	1069.34	1071.67	1074.87
37.5	1025.68	1025.20	1024.95	1025.52	1026.07	1025.74	1026.28	1027.72	1029.32	1030.79
40.0	987.49	986.38	986.08	986.25	984.96	984.55	985.03	985.33	985.73	987.12
42.5	948.96	947.78	947.43	945.62	944.22	943.70	943.89	942.30	942.56	943.82
45.0	910.64	909.39	907.76	905.35	903.82	902.49	900.62	899.70	899.78	898.56
47.5	872.54	870.68	867.98	865.44	863.74	860.73	858.64	857.52	855.14	853.62
50.0	821.16	822.46	823.16	825.00	822.64	819.40	817.09	813.95	811.05	809.21
52.5	768.02	768.26	769.00	770.58	771.29	773.15	774.98	770.75	767.52	764.28
55.0	714.70	714.40	715.17	715.73	716.43	717.57	718.81	720.36	722.61	719.29
57.5	661.11	660.87	661.32	661.33	662.00	662.65	663.05	664.52	665.33	666.94
60.0	607.82	607.63	607.74	607.36	607.98	607.58	607.93	608.51	608.94	610.40
62.5	554.81	554.66	554.15	553.76	553.75	553.12	553.42	553.07	553.42	553.91
65.0	502.07	501.95	500.93	500.53	499.84	499.23	498.99	498.44	498.71	498.09
67.5	449.75	449.26	448.05	447.64	446.47	445.87	445.10	444.56	444.09	443.21
70.0	398.63	397.83	396.49	395.61	394.06	393.16	391.90	391.39	390.20	389.21
72.5	348.06	346.91	345.49	344.38	342.98	341.91	340.53	339.61	337.56	336.04
75.0	298.50	297.30	296.06	294.68	293.20	291.78	290.26	289.08	286.76	285.12
77.5	249.09	247.94	246.89	245.56	244.30	242.93	241.61	239.93	237.91	235.85
80.0	199.81	198.79	197.93	196.75	195.71	194.48	193.37	191.77	190.07	188.19
82.5	150.63	149.80	149.14	148.18	147.37	146.35	145.48	144.12	142.78	141.21
85.0	101.53	100.94	100.49	99.79	99.22	98.48	97.86	96.85	95.90	94.75
87.5	52.48	52.17	51.90	51.53	51.18	50.78	50.38	49.84	49.25	48.65
90.0	3.47	3.44	3.40	3.33	3.26	3.17	3.07	2.96	2.85	2.73

**Vert.
Angles**

Horizontal Angles

	<u>50.0</u>	<u>52.5</u>	<u>55.0</u>	<u>57.5</u>	<u>60.0</u>	<u>62.5</u>	<u>65.0</u>	<u>67.5</u>	<u>70.0</u>	<u>72.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1344.70	1345.05	1345.43	1345.81	1346.22	1346.64	1347.08	1347.53	1348.00	1348.48
5.0	1334.61	1335.32	1336.06	1336.84	1337.65	1338.49	1339.37	1340.27	1341.20	1342.16
7.5	1322.86	1323.46	1324.14	1324.90	1325.74	1326.66	1327.64	1328.71	1329.84	1331.04
10.0	1308.51	1309.31	1310.21	1311.22	1312.52	1313.55	1314.86	1316.28	1317.79	1319.39
12.5	1294.14	1295.13	1295.74	1296.26	1296.95	1297.81	1298.85	1300.05	1301.42	1302.96
15.0	1276.39	1276.57	1276.97	1277.56	1278.36	1279.37	1280.58	1281.99	1283.61	1285.43
17.5	1257.69	1257.88	1258.31	1258.98	1259.69	1260.10	1260.82	1261.83	1263.15	1264.77
20.0	1238.75	1237.83	1237.24	1236.99	1237.09	1237.53	1238.32	1239.45	1240.93	1242.76
22.5	1216.52	1215.45	1214.75	1214.43	1214.51	1214.97	1215.16	1215.47	1216.26	1217.53
25.0	1194.34	1193.11	1191.72	1189.93	1188.65	1187.88	1187.64	1187.93	1188.75	1190.12
27.5	1170.66	1167.53	1164.94	1162.90	1161.42	1160.50	1160.17	1159.91	1160.23	1160.35
30.0	1143.15	1141.18	1138.27	1135.40	1133.05	1130.68	1128.99	1127.98	1127.69	1128.12
32.5	1109.43	1109.66	1110.15	1105.72	1102.29	1099.56	1097.85	1096.29	1095.24	1094.70
35.0	1074.23	1073.08	1072.76	1073.28	1071.87	1067.72	1064.09	1061.39	1059.64	1058.88
37.5	1033.26	1037.22	1035.39	1035.09	1034.68	1033.45	1029.35	1026.25	1024.18	1022.23
40.0	989.53	991.84	994.41	995.35	994.65	995.05	993.68	988.64	984.80	982.22
42.5	944.16	945.41	947.83	951.46	953.52	951.81	951.37	949.87	945.47	942.24
45.0	898.43	899.45	901.03	902.48	905.23	908.61	907.72	907.02	903.92	899.19
47.5	853.77	852.75	852.59	853.68	856.12	858.75	861.64	860.15	860.28	856.38
50.0	807.16	805.40	804.83	805.21	805.46	807.16	810.39	813.71	811.96	811.25
52.5	760.98	758.78	757.11	755.50	755.20	756.34	757.84	760.74	762.69	762.11
55.0	715.55	712.29	708.89	706.69	705.58	704.41	704.85	707.05	710.81	711.05
57.5	669.44	665.60	661.62	658.43	655.06	653.13	652.78	653.02	655.01	659.07
60.0	611.36	613.14	615.14	609.76	605.62	602.72	600.23	599.35	600.29	602.66
62.5	554.31	555.78	556.77	558.63	557.19	552.38	548.90	546.92	545.31	546.01
65.0	498.25	498.56	498.93	500.32	501.84	503.50	498.77	494.02	491.11	490.35
67.5	443.12	442.36	442.41	442.75	443.63	445.56	446.84	442.64	438.26	435.37

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

70.0	388.31	387.39	387.02	386.60	386.98	387.08	387.57	388.95	386.63	382.11
72.5	334.62	333.59	332.61	331.90	331.45	330.71	330.53	330.76	331.72	330.89
75.0	283.11	281.49	279.50	278.60	277.43	276.41	275.67	275.21	275.18	275.88
77.5	233.60	231.39	229.48	227.74	225.70	224.07	223.15	222.29	221.66	221.29
80.0	186.26	184.20	182.03	179.77	177.35	175.37	173.71	172.07	171.10	169.35
82.5	139.67	137.92	136.16	134.21	132.18	130.18	128.16	126.14	124.34	122.68
85.0	93.65	92.36	91.08	89.63	88.78	86.65	85.11	83.55	81.85	79.99
87.5	47.95	47.29	46.45	45.73	44.81	44.05	43.17	42.29	41.31	40.20
90.0	2.61	2.47	2.32	2.18	2.04	1.93	1.81	1.74	1.67	1.59

Vert. Angles	Horizontal Angles									
	<u>75.0</u>	<u>77.5</u>	<u>80.0</u>	<u>82.5</u>	<u>85.0</u>	<u>87.5</u>	<u>90.0</u>	<u>92.5</u>	<u>95.0</u>	<u>97.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1348.97	1349.47	1349.98	1350.50	1351.03	1351.57	1352.11	1351.55	1351.00	1350.45
5.0	1343.14	1344.15	1345.09	1346.17	1347.26	1348.35	1349.44	1348.31	1347.19	1346.07
7.5	1332.31	1333.65	1335.04	1336.50	1338.01	1339.57	1341.19	1339.52	1337.91	1336.35
10.0	1321.09	1322.86	1324.73	1326.38	1328.56	1330.74	1332.93	1330.68	1328.44	1326.21
12.5	1304.67	1306.54	1308.57	1310.75	1313.10	1315.59	1318.23	1315.50	1312.93	1310.50
15.0	1287.44	1289.65	1292.05	1294.65	1297.08	1300.30	1303.52	1300.18	1296.84	1294.29
17.5	1266.68	1268.89	1271.40	1274.19	1277.26	1280.62	1284.25	1280.48	1276.99	1273.78
20.0	1244.93	1247.44	1250.29	1253.48	1256.38	1260.67	1264.97	1260.51	1256.07	1253.01
22.5	1219.29	1221.52	1224.24	1227.44	1231.12	1235.26	1239.86	1235.08	1230.76	1226.92
25.0	1192.02	1194.47	1197.46	1200.99	1205.05	1209.39	1214.75	1209.19	1204.65	1200.40
27.5	1161.58	1163.49	1166.11	1169.43	1173.45	1178.19	1183.63	1177.98	1173.04	1168.81
30.0	1129.30	1131.23	1133.93	1137.40	1141.65	1146.30	1152.51	1146.09	1141.24	1136.78
32.5	1095.08	1096.42	1098.72	1101.98	1106.22	1111.43	1117.63	1111.19	1105.73	1101.26
35.0	1059.13	1060.41	1062.75	1066.14	1070.60	1075.61	1082.74	1075.32	1070.03	1065.28
37.5	1021.28	1021.59	1023.17	1026.06	1030.26	1035.80	1042.68	1035.50	1029.66	1025.15
40.0	980.94	981.01	982.46	985.33	989.63	994.67	1002.62	994.36	989.01	984.40
42.5	939.65	938.65	939.29	941.62	945.65	951.42	958.94	951.10	945.00	940.64
45.0	896.10	894.73	895.12	897.34	901.41	906.44	915.26	906.10	900.66	896.32
47.5	852.16	849.45	848.77	850.18	853.76	859.56	867.62	859.18	853.00	849.05
50.0	805.83	802.48	801.29	802.38	805.82	810.45	819.98	810.02	804.97	801.12
52.5	759.80	754.81	752.28	752.34	755.10	760.67	769.09	760.21	754.19	750.97
55.0	710.68	705.51	702.21	701.70	704.12	708.03	718.19	707.54	703.14	700.23
57.5	658.36	656.16	651.20	649.33	650.76	655.66	664.17	655.12	649.67	647.72
60.0	605.06	604.25	599.33	596.47	597.17	599.68	610.16	599.07	595.97	594.68
62.5	549.08	549.96	547.38	542.93	542.49	546.34	554.71	545.74	541.28	541.09
65.0	491.54	495.30	494.28	489.25	487.77	491.00	499.26	490.42	486.57	487.44
67.5	434.80	437.02	438.68	435.51	432.39	434.52	442.36	433.86	431.07	433.58
70.0	379.69	379.70	382.89	382.08	377.20	378.12	385.46	377.35	375.69	379.87
72.5	326.47	324.24	323.49	326.74	323.04	322.55	329.28	321.73	321.39	324.18
75.0	275.82	271.46	269.93	271.85	269.78	267.29	273.10	266.40	268.00	268.23
77.5	221.55	222.28	217.87	216.84	218.51	215.52	220.42	212.19	213.19	209.38
80.0	169.57	169.44	170.52	167.05	167.42	164.63	167.74	157.42	154.87	150.89
82.5	121.27	119.88	119.32	121.61	117.22	117.00	118.73	102.54	96.80	94.65
85.0	77.83	74.21	70.54	70.36	71.17	68.68	69.72	46.11	50.24	52.33
87.5	38.86	36.03	31.89	28.87	26.11	29.81	35.79	19.03	19.47	22.43
90.0	1.51	1.47	1.43	1.41	1.39	1.39	1.86	2.00	2.14	2.15

Vert. Angles	Horizontal Angles									
	<u>100.0</u>	<u>102.5</u>	<u>105.0</u>	<u>107.5</u>	<u>110.0</u>	<u>112.5</u>	<u>115.0</u>	<u>117.5</u>	<u>120.0</u>	<u>122.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1349.91	1349.38	1348.86	1348.36	1347.86	1347.38	1346.91	1346.46	1346.02	1345.60

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

5.0	1344.95	1343.98	1342.94	1341.92	1340.93	1339.96	1339.03	1338.12	1337.25	1336.41
7.5	1334.85	1333.41	1332.03	1330.71	1329.46	1328.28	1327.17	1326.13	1325.17	1324.29
10.0	1324.50	1322.58	1320.74	1318.99	1317.33	1315.76	1314.29	1312.91	1311.64	1310.46
12.5	1308.23	1306.12	1304.18	1302.40	1300.79	1299.35	1298.08	1296.99	1296.08	1295.34
15.0	1291.58	1289.07	1286.75	1284.64	1282.72	1281.02	1279.52	1278.23	1277.15	1276.29
17.5	1270.85	1268.21	1265.87	1263.82	1262.07	1260.62	1259.47	1258.63	1258.09	1257.28
20.0	1249.68	1246.67	1244.01	1241.69	1239.71	1238.08	1236.80	1235.87	1235.29	1235.05
22.5	1223.54	1220.65	1218.25	1216.32	1214.89	1213.94	1213.12	1213.13	1212.51	1212.28
25.0	1196.67	1193.49	1190.85	1188.76	1187.21	1186.21	1185.75	1185.82	1186.42	1187.55
27.5	1165.29	1162.47	1160.34	1158.89	1158.12	1158.01	1158.06	1158.21	1158.95	1160.26
30.0	1133.10	1130.19	1128.04	1126.65	1125.99	1126.05	1126.81	1127.92	1130.38	1132.48
32.5	1097.76	1095.25	1093.70	1093.12	1093.48	1094.33	1095.35	1097.11	1099.57	1102.73
35.0	1061.62	1059.02	1057.49	1057.01	1057.56	1059.12	1061.65	1065.14	1069.12	1070.26
37.5	1021.96	1020.07	1019.46	1020.09	1021.75	1023.60	1026.51	1030.44	1031.57	1031.92
40.0	981.22	979.45	979.06	980.01	982.27	985.78	990.50	991.63	991.14	991.78
42.5	938.00	937.03	937.71	939.97	942.87	946.92	948.13	948.31	949.76	947.55
45.0	893.76	893.03	894.06	896.81	901.21	904.01	904.46	905.08	901.49	898.55
47.5	847.28	847.62	850.01	853.89	857.45	857.05	858.28	855.20	852.40	849.77
50.0	799.64	800.44	803.43	808.51	808.97	810.49	806.95	803.52	801.66	801.27
52.5	750.47	752.56	757.12	759.11	759.44	757.30	754.23	752.57	751.25	751.40
55.0	700.27	703.10	707.83	707.87	707.33	703.39	701.03	700.43	701.44	702.40
57.5	649.09	653.57	655.37	655.73	651.42	649.21	648.74	648.93	650.70	653.91
60.0	596.99	601.41	601.86	599.19	596.57	595.38	596.04	598.32	601.05	605.02
62.5	544.89	546.91	545.71	542.32	541.45	542.78	544.53	547.80	552.41	553.73
65.0	491.83	492.32	488.17	486.65	487.15	489.78	494.22	498.71	497.00	495.44
67.5	436.24	434.17	431.52	431.71	434.24	438.32	442.22	440.76	438.80	437.88
70.0	380.12	376.60	376.40	378.44	382.59	384.61	383.03	382.36	382.14	381.73
72.5	320.30	320.64	322.64	327.03	327.65	326.44	326.01	326.02	326.63	327.02
75.0	264.66	266.49	271.29	271.32	270.95	270.80	271.10	271.71	272.62	273.71
77.5	208.66	213.24	215.07	215.69	216.55	217.07	218.46	219.31	220.99	223.12
80.0	154.05	156.87	159.94	162.31	164.88	167.02	169.17	171.00	173.16	175.81
82.5	100.78	105.20	109.24	113.72	117.73	121.33	124.49	126.81	129.03	131.21
85.0	55.96	61.42	66.73	72.57	77.03	80.17	82.74	84.45	86.05	87.61
87.5	24.93	29.74	33.16	36.46	39.01	40.71	42.15	43.05	43.74	44.71
90.0	2.16	2.15	2.14	2.15	2.16	2.16	2.16	2.16	2.16	2.18

**Vert.
Angles**

Horizontal Angles

	125.0	127.5	130.0	132.5	135.0	137.5	140.0	142.5	145.0	147.5
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1345.20	1344.81	1344.45	1344.10	1343.77	1343.47	1343.19	1342.92	1342.69	1342.47
5.0	1335.60	1334.83	1334.10	1333.41	1332.76	1332.15	1331.58	1331.06	1330.59	1330.16
7.5	1323.48	1322.76	1322.11	1321.55	1321.07	1320.68	1319.96	1319.18	1318.47	1317.83
10.0	1309.40	1308.43	1307.58	1306.83	1306.20	1305.68	1305.27	1304.97	1304.78	1304.71
12.5	1294.78	1294.12	1293.06	1292.14	1291.36	1290.71	1290.20	1289.71	1289.61	1289.52
15.0	1275.64	1275.20	1274.98	1274.97	1275.17	1275.59	1275.16	1274.73	1274.46	1274.37
17.5	1256.55	1256.07	1255.83	1255.84	1256.09	1256.59	1257.33	1258.30	1259.13	1259.24
20.0	1235.16	1235.61	1236.39	1236.78	1237.09	1237.68	1238.54	1239.67	1241.06	1242.71
22.5	1212.44	1212.98	1213.46	1215.20	1216.87	1218.77	1219.85	1221.14	1222.72	1224.58
25.0	1189.06	1190.41	1191.48	1192.97	1194.86	1197.15	1199.82	1200.87	1200.46	1200.02
27.5	1162.13	1164.56	1167.52	1170.09	1172.04	1171.19	1170.91	1171.20	1172.04	1172.25
30.0	1135.17	1137.90	1139.72	1139.61	1140.19	1140.89	1140.65	1141.02	1140.62	1139.29
32.5	1106.25	1106.16	1105.79	1105.79	1106.52	1107.29	1105.79	1103.22	1101.04	1099.64
35.0	1069.50	1069.59	1070.48	1070.89	1067.62	1065.21	1063.69	1063.03	1061.64	1060.21
37.5	1032.16	1033.25	1029.55	1026.88	1025.20	1023.48	1021.96	1021.34	1021.59	1020.98
40.0	990.82	988.27	985.88	983.25	981.65	981.04	980.59	980.02	980.35	981.55

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

42.5	943.94	941.54	940.32	939.98	938.49	938.02	938.54	939.05	939.47	940.78
45.0	896.92	895.30	894.31	894.46	895.70	895.40	896.10	897.77	898.96	900.39
47.5	848.48	848.46	848.82	849.26	850.80	853.18	854.08	855.96	858.77	860.35
50.0	800.71	801.08	802.66	804.61	806.47	809.38	812.47	814.57	817.60	819.80
52.5	752.92	754.42	755.90	759.55	762.71	765.96	769.61	768.28	766.25	765.37
55.0	704.49	707.82	710.94	714.49	717.64	715.42	713.92	712.72	711.40	710.53
57.5	656.99	660.90	664.72	662.09	660.37	659.49	658.07	657.72	656.98	656.14
60.0	610.23	608.26	606.49	605.49	603.94	603.46	602.89	602.57	602.96	602.16
62.5	551.85	550.81	549.33	548.88	548.32	547.95	548.32	548.04	548.68	548.56
65.0	494.01	493.59	493.23	492.97	493.46	493.22	493.84	494.10	494.71	495.32
67.5	437.50	437.39	438.09	438.04	438.75	439.19	439.85	440.70	441.28	442.41
70.0	382.12	382.43	383.29	384.05	384.80	385.84	386.51	388.00	388.95	390.53
72.5	327.71	328.65	329.60	330.65	332.27	334.13	335.32	336.99	338.14	339.57
75.0	274.11	276.68	278.35	280.37	281.86	283.58	285.38	287.24	288.85	290.39
77.5	224.97	226.85	229.32	231.67	233.71	235.62	237.38	238.99	240.55	241.87
80.0	178.26	180.59	182.77	184.76	186.65	188.25	189.85	191.18	192.57	193.65
82.5	133.27	135.14	136.96	138.54	140.12	141.37	142.69	143.71	144.85	145.68
85.0	89.10	90.42	91.74	92.84	93.98	94.86	95.80	96.51	97.32	97.89
87.5	45.40	46.21	46.84	47.51	48.08	48.60	49.08	49.49	49.90	50.23
90.0	2.19	2.25	2.30	2.36	2.42	2.47	2.52	2.56	2.59	2.63

**Vert.
Angles**

Horizontal Angles

	<u>150.0</u>	<u>152.5</u>	<u>155.0</u>	<u>157.5</u>	<u>160.0</u>	<u>162.5</u>	<u>165.0</u>	<u>167.5</u>	<u>170.0</u>	<u>172.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1342.28	1342.11	1341.97	1341.85	1341.75	1341.68	1341.63	1341.61	1341.62	1341.65
5.0	1329.77	1329.44	1329.15	1328.91	1328.72	1328.58	1328.49	1328.45	1328.07	1328.30
7.5	1317.25	1316.75	1316.32	1315.97	1315.69	1315.48	1315.34	1315.28	1315.30	1315.39
10.0	1304.69	1304.05	1303.48	1303.01	1302.64	1302.37	1302.19	1302.12	1302.14	1301.82
12.5	1289.57	1289.77	1290.10	1290.05	1289.59	1289.25	1289.04	1288.95	1288.98	1289.13
15.0	1274.43	1274.67	1275.07	1275.63	1276.35	1276.12	1275.88	1275.77	1275.81	1276.00
17.5	1259.33	1259.61	1260.07	1260.73	1261.57	1262.60	1262.71	1262.59	1262.65	1262.87
20.0	1244.25	1244.58	1245.12	1245.87	1246.83	1247.99	1249.37	1249.41	1249.48	1249.74
22.5	1226.73	1228.37	1227.59	1226.78	1226.36	1226.34	1226.70	1226.97	1226.26	1225.93
25.0	1200.05	1200.55	1201.50	1201.29	1200.84	1200.81	1201.21	1202.03	1201.75	1201.40
27.5	1172.31	1172.86	1172.75	1172.35	1170.53	1168.97	1168.05	1167.78	1167.41	1166.32
30.0	1137.76	1135.89	1134.73	1134.28	1134.20	1132.51	1131.51	1131.19	1131.51	1130.38
32.5	1099.04	1098.09	1096.85	1096.37	1096.62	1096.10	1095.02	1094.66	1095.03	1094.43
35.0	1059.60	1059.79	1059.11	1058.60	1058.85	1059.54	1058.58	1058.19	1058.54	1058.48
37.5	1020.37	1020.60	1021.07	1020.96	1021.22	1022.26	1022.19	1021.77	1022.11	1022.52
40.0	981.35	981.63	982.75	983.45	983.73	984.80	985.83	985.39	985.72	986.56
42.5	942.51	942.86	944.06	945.99	946.36	947.46	949.37	949.05	949.38	950.50
45.0	902.68	904.28	905.57	907.69	909.10	910.26	912.21	912.75	913.09	914.21
47.5	862.77	865.35	867.28	868.05	867.46	865.96	865.61	864.96	863.69	863.56
50.0	817.86	817.07	815.78	814.58	814.50	813.24	812.84	812.81	811.53	811.38
52.5	763.68	762.84	762.54	761.31	761.18	760.61	760.17	760.66	759.40	759.23
55.0	709.83	708.96	709.16	708.23	708.06	708.07	707.61	708.22	707.28	707.11
57.5	655.95	655.40	655.54	655.33	655.13	655.61	655.14	655.70	655.18	655.01
60.0	602.36	602.12	602.22	602.58	602.36	603.12	602.75	603.27	603.10	602.94
62.5	548.77	549.13	549.17	549.98	549.75	550.45	550.44	550.91	551.03	550.89
65.0	495.53	496.38	496.39	497.26	497.29	497.93	498.20	498.63	498.98	498.86
67.5	442.64	443.06	444.09	445.09	445.62	446.38	446.99	447.51	448.10	448.06
70.0	391.31	392.52	393.25	394.14	394.86	395.54	396.27	396.74	397.41	397.38
72.5	340.51	341.95	343.07	344.04	345.02	345.75	346.65	347.16	347.93	347.95
75.0	291.78	292.96	294.12	294.96	295.94	296.57	297.44	297.87	298.62	298.63
77.5	243.21	244.21	245.32	246.03	246.95	247.48	248.28	248.63	249.31	249.31

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

80.0	194.84	195.67	196.66	197.23	198.03	198.46	199.16	199.44	200.01	198.36
82.5	146.65	147.28	148.09	148.53	149.18	149.50	150.06	150.27	150.69	150.72
85.0	98.59	99.03	99.61	99.91	100.32	100.59	100.95	101.13	99.95	100.60
87.5	50.59	50.85	51.16	51.34	51.59	51.72	51.92	52.00	52.17	52.15
90.0	2.67	2.72	2.76	2.80	2.83	2.86	2.88	2.89	2.89	2.88

Vert. Horizontal Angles
Angles

	<u>175.0</u>	<u>177.5</u>	<u>180.0</u>	<u>182.5</u>	<u>185.0</u>	<u>187.5</u>	<u>190.0</u>	<u>192.5</u>	<u>195.0</u>	<u>197.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1341.70	1341.78	1341.89	1341.77	1341.68	1341.61	1341.57	1341.55	1341.56	1341.60
5.0	1328.53	1328.76	1328.99	1328.74	1328.48	1328.23	1327.98	1328.34	1328.36	1328.43
7.5	1315.55	1315.78	1316.10	1315.76	1315.49	1315.30	1315.18	1315.14	1315.17	1315.28
10.0	1302.28	1302.74	1303.20	1302.71	1302.21	1301.72	1302.00	1301.95	1301.99	1302.14
12.5	1289.40	1289.79	1290.31	1289.76	1289.33	1289.02	1288.84	1288.77	1288.83	1289.00
15.0	1276.05	1276.73	1277.41	1276.69	1275.98	1275.90	1275.68	1275.60	1275.67	1275.88
17.5	1263.25	1263.80	1264.52	1263.77	1263.19	1262.78	1262.52	1262.43	1262.51	1262.34
20.0	1249.82	1250.72	1251.62	1250.70	1249.77	1249.66	1249.38	1249.27	1249.44	1247.66
22.5	1225.98	1226.41	1227.22	1226.39	1225.93	1225.86	1226.16	1226.84	1226.44	1225.91
25.0	1200.65	1201.73	1202.82	1201.71	1200.60	1201.33	1201.65	1201.87	1200.87	1200.29
27.5	1165.88	1166.08	1166.92	1166.04	1165.81	1166.22	1167.28	1167.51	1167.59	1168.32
30.0	1128.56	1129.79	1131.02	1129.74	1128.47	1130.25	1131.35	1130.81	1130.91	1131.71
32.5	1093.95	1094.18	1095.12	1094.12	1093.84	1094.26	1094.75	1094.17	1094.30	1095.15
35.0	1057.99	1057.87	1059.22	1057.80	1057.85	1058.27	1058.17	1057.58	1057.72	1058.62
37.5	1022.03	1022.29	1023.32	1022.21	1021.86	1022.27	1021.64	1021.04	1021.19	1021.05
40.0	986.07	985.97	987.41	985.87	985.87	986.26	985.16	984.54	984.70	983.44
42.5	950.11	950.42	951.51	950.31	949.88	950.30	948.73	948.09	948.42	945.94
45.0	914.15	914.10	915.61	913.97	913.90	913.79	912.34	911.68	910.81	908.54
47.5	862.90	862.71	863.64	862.58	862.66	863.14	862.94	863.87	864.17	864.16
50.0	810.95	810.20	811.67	810.08	810.72	810.96	810.79	811.74	811.44	811.51
52.5	759.00	758.80	759.70	758.70	758.79	758.82	758.68	759.63	758.85	758.98
55.0	707.05	706.33	707.73	706.23	706.86	706.72	706.60	707.25	706.39	706.58
57.5	655.10	654.92	655.76	654.83	654.93	654.65	654.54	654.80	654.03	654.27
60.0	601.19	602.49	603.79	602.42	601.05	602.60	602.51	602.46	601.77	602.34
62.5	551.20	551.04	551.82	550.98	551.08	550.59	550.51	550.21	549.61	549.47
65.0	497.51	498.68	499.84	498.63	497.42	498.60	498.52	498.06	497.54	497.13
67.5	448.54	448.44	449.13	448.40	448.46	447.83	447.69	447.02	446.47	445.71
70.0	396.46	397.44	398.42	397.41	396.39	397.18	397.05	396.33	395.86	394.98
72.5	348.46	348.41	348.97	348.38	348.40	347.76	347.60	346.80	346.30	345.26
75.0	298.01	298.77	299.52	298.74	297.96	298.45	298.31	297.56	297.13	296.12
77.5	249.72	249.67	250.07	249.64	249.67	249.15	249.04	248.35	248.00	247.08
80.0	199.60	200.12	200.62	200.09	199.57	198.22	199.78	199.19	198.91	198.12
82.5	150.97	150.94	151.17	150.91	150.93	150.60	150.52	150.07	149.85	149.22
85.0	101.23	101.48	101.72	101.46	101.19	100.49	99.79	100.96	100.82	100.38
87.5	52.23	52.20	52.27	52.19	52.20	52.07	52.04	51.87	51.80	51.57
90.0	2.86	2.84	2.82	2.83	2.83	2.82	2.81	2.80	2.78	2.78

Vert. Horizontal Angles
Angles

	<u>200.0</u>	<u>202.5</u>	<u>205.0</u>	<u>207.5</u>	<u>210.0</u>	<u>212.5</u>	<u>215.0</u>	<u>217.5</u>	<u>220.0</u>	<u>222.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1341.66	1341.74	1341.85	1341.98	1342.14	1342.32	1342.53	1342.76	1343.01	1343.28
5.0	1328.55	1328.72	1328.94	1329.20	1329.52	1329.88	1330.29	1330.75	1331.25	1331.80
7.5	1315.46	1315.71	1316.04	1316.44	1316.91	1317.45	1318.07	1318.75	1319.50	1320.39
10.0	1302.37	1302.71	1303.15	1303.68	1304.30	1304.21	1304.18	1304.26	1304.46	1304.78
12.5	1289.30	1289.72	1289.69	1289.24	1288.92	1288.75	1288.71	1288.69	1289.06	1289.45

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

15.0	1276.32	1275.19	1274.49	1273.95	1273.57	1273.36	1273.32	1273.44	1273.73	1274.43
17.5	1261.16	1260.16	1259.35	1258.73	1258.29	1258.05	1257.99	1256.92	1255.94	1255.19
20.0	1246.33	1245.20	1244.29	1243.58	1243.08	1241.50	1239.84	1238.44	1237.30	1236.43
22.5	1225.77	1226.02	1226.66	1227.32	1225.68	1223.53	1221.65	1220.06	1218.76	1217.76
25.0	1200.14	1200.41	1200.50	1199.55	1199.06	1199.04	1199.50	1200.43	1198.77	1195.93
27.5	1169.70	1171.37	1171.77	1171.89	1171.34	1171.29	1171.05	1170.12	1169.74	1169.91
30.0	1133.20	1133.23	1133.66	1134.81	1136.69	1138.22	1139.52	1139.85	1139.39	1139.51
32.5	1095.52	1095.20	1095.64	1096.84	1097.76	1098.33	1099.69	1101.84	1104.41	1106.02
35.0	1057.63	1057.28	1057.72	1058.33	1058.09	1058.66	1060.05	1061.45	1062.20	1063.84
37.5	1019.85	1019.46	1019.87	1018.91	1018.63	1019.18	1019.79	1019.62	1020.33	1021.96
40.0	982.17	981.72	980.89	979.71	979.37	979.53	978.38	978.12	978.78	979.23
42.5	944.58	944.06	941.97	940.71	940.30	938.58	937.31	936.95	936.42	935.80
45.0	907.09	905.47	903.26	901.90	900.26	897.98	896.58	895.37	893.57	892.76
47.5	865.28	865.65	864.75	863.28	860.13	857.70	856.28	853.16	851.14	850.10
50.0	812.44	812.33	813.35	814.48	815.13	816.91	814.57	811.36	809.10	806.14
52.5	759.29	759.22	760.26	760.41	761.11	762.62	763.17	764.85	765.98	762.60
55.0	706.34	706.30	707.03	706.70	707.43	707.89	708.43	710.07	710.64	712.22
57.5	653.57	653.56	653.59	653.31	654.07	653.62	654.14	654.72	655.13	656.62
60.0	600.97	600.97	600.45	600.23	600.29	599.79	600.29	599.89	600.25	600.72
62.5	548.53	548.52	547.59	547.42	546.85	546.38	546.29	545.66	545.96	545.35
65.0	496.24	495.98	495.00	494.87	493.80	493.34	492.61	492.00	491.67	490.80
67.5	444.72	443.99	442.89	441.75	441.10	440.64	439.46	438.85	437.88	437.02
70.0	394.07	393.19	392.21	391.36	389.95	388.99	387.37	386.39	384.78	383.95
72.5	344.32	343.22	342.17	340.94	339.34	338.27	336.80	335.59	333.83	332.54
75.0	295.31	294.24	293.34	292.08	290.76	289.29	287.71	286.06	284.14	282.35
77.5	246.40	245.42	244.67	243.47	242.36	240.96	239.61	238.02	236.36	234.64
80.0	197.58	196.73	196.13	195.07	194.17	192.94	191.84	190.41	189.04	187.52
82.5	148.81	148.15	147.70	146.84	146.16	145.16	144.32	143.15	142.10	140.86
85.0	100.10	99.64	99.34	98.74	98.28	97.58	97.00	96.17	95.45	94.57
87.5	51.43	51.19	51.04	50.73	50.49	50.12	49.81	49.37	48.99	48.52
90.0	2.77	2.77	2.77	2.76	2.75	2.72	2.69	2.66	2.63	2.60

Vert. Horizontal Angles

	<u>225.0</u>	<u>227.5</u>	<u>230.0</u>	<u>232.5</u>	<u>235.0</u>	<u>237.5</u>	<u>240.0</u>	<u>242.5</u>	<u>245.0</u>	<u>247.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1343.58	1343.89	1344.23	1344.59	1344.96	1345.36	1345.77	1346.20	1346.65	1347.11
5.0	1332.39	1333.02	1333.69	1334.41	1335.16	1335.95	1336.77	1337.63	1338.53	1339.45
7.5	1320.50	1320.91	1321.41	1321.99	1322.65	1323.40	1324.22	1325.13	1326.11	1327.17
10.0	1305.21	1305.75	1306.40	1307.17	1308.04	1309.03	1310.12	1311.32	1312.62	1314.02
12.5	1289.98	1290.65	1291.46	1292.40	1293.02	1293.56	1294.27	1295.17	1296.24	1297.48
15.0	1273.61	1273.39	1273.39	1273.59	1274.01	1274.64	1275.48	1276.53	1277.79	1279.26
17.5	1254.68	1254.41	1254.38	1254.60	1255.06	1255.77	1257.27	1256.89	1257.57	1258.55
20.0	1235.83	1235.50	1235.04	1234.07	1233.43	1233.13	1233.16	1233.53	1234.25	1235.32
22.5	1215.60	1213.75	1211.82	1211.12	1210.35	1209.96	1209.93	1210.29	1210.11	1210.75
25.0	1193.47	1191.38	1189.67	1188.35	1186.80	1185.14	1183.86	1183.08	1182.83	1183.09
27.5	1170.63	1169.20	1165.80	1162.70	1160.13	1158.09	1156.59	1155.66	1155.29	1155.03
30.0	1138.79	1138.21	1138.30	1136.39	1133.50	1131.18	1128.27	1125.60	1124.26	1123.29
32.5	1105.28	1104.55	1104.53	1104.86	1104.82	1101.03	1097.62	1094.92	1092.96	1091.74
35.0	1066.37	1069.96	1069.23	1068.17	1067.95	1068.58	1067.26	1063.04	1059.30	1056.51
37.5	1023.73	1025.36	1027.99	1031.67	1031.38	1030.12	1029.70	1028.42	1024.21	1021.00
40.0	979.76	981.30	983.89	986.33	988.99	989.96	989.22	989.60	988.42	983.55
42.5	936.18	937.60	938.05	939.40	941.90	945.60	947.97	946.59	946.48	945.27
45.0	892.97	891.88	891.88	893.00	894.75	896.58	899.79	903.67	903.14	902.69
47.5	847.90	846.54	846.26	846.01	846.18	847.69	850.61	853.71	857.05	855.79
50.0	803.45	801.78	799.91	798.40	798.17	798.96	799.65	801.80	805.54	810.20

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

52.5	759.60	756.51	752.81	751.38	750.05	748.82	748.97	750.61	752.68	756.20
55.0	714.42	711.05	707.41	704.37	701.33	699.53	698.89	698.32	699.38	702.23
57.5	657.18	658.51	660.74	657.13	653.51	650.76	647.98	646.66	646.96	647.79
60.0	600.85	602.01	602.88	604.55	606.43	601.63	598.10	595.80	593.80	593.52
62.5	545.39	545.74	546.14	547.53	548.48	550.29	549.13	544.69	541.71	540.92
65.0	490.76	490.25	490.48	490.78	491.12	492.47	493.63	494.92	490.75	487.09
67.5	436.44	435.77	436.30	435.05	435.08	435.24	435.76	437.69	438.63	435.36
70.0	382.93	382.25	381.47	380.54	380.14	379.49	379.56	379.61	380.22	381.76
72.5	330.82	329.35	328.24	327.21	326.17	325.30	324.69	323.99	323.92	324.23
75.0	280.78	279.41	277.35	275.83	273.11	272.60	271.37	270.35	269.62	269.19
77.5	232.89	230.94	228.60	226.17	224.36	222.53	220.33	218.60	217.54	216.01
80.0	186.05	184.22	182.23	180.11	177.90	175.51	172.86	170.63	168.68	166.52
82.5	139.71	138.17	136.60	134.85	133.08	131.04	128.86	126.60	124.23	121.22
85.0	93.77	92.65	91.56	90.30	89.06	87.57	86.01	84.38	82.62	80.22
87.5	48.10	47.49	46.91	46.25	45.59	44.81	43.99	43.12	42.18	40.85
90.0	2.56	2.52	2.47	2.45	2.42	2.40	2.38	2.37	2.35	2.34

**Vert.
Angles**

Horizontal Angles

	<u>250.0</u>	<u>252.5</u>	<u>255.0</u>	<u>257.5</u>	<u>260.0</u>	<u>262.5</u>	<u>265.0</u>	<u>267.5</u>	<u>270.0</u>	<u>272.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1347.59	1348.08	1348.58	1349.09	1349.62	1350.16	1350.70	1351.25	1351.81	1351.27
5.0	1340.40	1341.38	1342.38	1343.41	1344.46	1345.53	1346.62	1347.72	1348.84	1347.76
7.5	1328.31	1329.51	1330.79	1332.14	1333.55	1335.02	1336.55	1338.15	1339.80	1338.20
10.0	1315.52	1317.12	1318.81	1320.59	1322.46	1324.42	1326.45	1328.56	1330.75	1328.63
12.5	1298.90	1300.48	1302.24	1304.16	1306.24	1308.48	1310.88	1313.42	1316.12	1313.50
15.0	1280.94	1282.83	1284.91	1287.20	1289.68	1292.36	1295.22	1298.26	1301.48	1298.35
17.5	1259.84	1261.43	1263.32	1265.52	1268.02	1270.82	1273.92	1277.31	1280.98	1277.41
20.0	1236.73	1238.49	1240.60	1243.06	1245.86	1249.01	1252.50	1256.32	1260.48	1256.44
22.5	1211.53	1212.79	1214.54	1216.76	1219.46	1222.65	1226.31	1230.44	1235.04	1230.58
25.0	1183.89	1185.22	1187.09	1189.50	1192.45	1195.94	1199.97	1204.53	1209.61	1204.68
27.5	1154.93	1155.51	1156.76	1158.70	1161.34	1164.67	1168.71	1173.46	1178.90	1173.61
30.0	1123.04	1123.52	1124.74	1126.72	1129.46	1132.98	1137.27	1142.34	1148.19	1142.49
32.5	1090.68	1090.08	1090.42	1091.71	1093.98	1097.22	1101.45	1106.67	1112.88	1106.83
35.0	1054.69	1053.86	1054.05	1055.29	1057.58	1060.95	1065.40	1070.94	1077.56	1071.12
37.5	1018.84	1016.98	1016.14	1016.53	1018.17	1021.09	1025.32	1030.87	1037.76	1031.04
40.0	979.86	977.40	976.21	976.35	977.83	980.72	985.02	990.76	997.95	990.90
42.5	941.01	937.87	935.22	934.15	934.70	936.91	940.84	946.50	953.91	946.71
45.0	899.68	894.88	891.70	890.19	890.43	892.48	896.32	902.17	909.87	902.47
47.5	856.15	852.21	847.86	844.98	844.11	845.31	848.67	854.23	862.05	854.54
50.0	807.84	807.33	801.75	798.18	796.75	797.55	800.69	806.23	814.23	806.54
52.5	758.63	758.29	756.46	750.75	747.93	747.67	750.09	755.30	763.35	755.54
55.0	706.65	707.29	707.17	701.76	698.12	697.24	699.26	704.31	712.47	704.47
57.5	650.45	655.29	654.91	652.77	647.48	645.27	646.36	650.91	659.03	651.10
60.0	595.19	598.46	601.65	601.15	596.01	592.86	593.27	597.47	605.60	597.71
62.5	539.78	541.37	545.47	547.00	544.38	539.57	538.74	542.19	550.14	542.46
65.0	485.23	485.48	487.59	492.22	491.45	486.07	484.14	486.91	494.68	487.20
67.5	432.06	430.16	430.51	433.62	435.87	432.71	429.30	431.14	438.64	431.41
70.0	380.07	376.55	375.08	375.99	380.12	379.73	374.67	375.44	382.59	375.69
72.5	325.35	324.99	321.46	320.17	321.90	324.44	320.91	320.31	326.89	320.56
75.0	269.27	269.93	270.32	266.49	265.43	268.98	267.98	265.45	271.18	265.69
77.5	215.65	215.08	215.04	214.66	210.83	211.45	216.02	213.43	218.47	214.06
80.0	164.64	163.18	160.81	159.21	157.23	154.14	161.17	162.12	165.76	163.36
82.5	117.94	114.21	110.20	107.02	102.50	95.78	101.39	107.46	117.53	116.53
85.0	77.33	73.02	67.34	62.25	56.91	53.29	52.14	49.04	69.29	68.50
87.5	39.27	36.78	33.57	30.23	25.53	23.08	20.44	20.86	35.32	28.03

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

90.0	2.33	2.32	2.30	2.30	2.30	2.29	2.27	2.07	1.34	1.33
Vert. Angles	Horizontal Angles									
	<u>275.0</u>	<u>277.5</u>	<u>280.0</u>	<u>282.5</u>	<u>285.0</u>	<u>287.5</u>	<u>290.0</u>	<u>292.5</u>	<u>295.0</u>	<u>297.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1350.73	1350.21	1349.69	1349.18	1348.68	1348.19	1347.72	1347.26	1346.81	1346.38
5.0	1346.68	1345.63	1344.59	1343.57	1342.57	1341.60	1340.65	1339.73	1338.84	1337.98
7.5	1336.65	1335.17	1333.74	1332.38	1331.08	1329.85	1328.69	1327.60	1326.58	1325.64
10.0	1326.58	1324.62	1322.73	1320.92	1319.20	1317.58	1316.04	1314.60	1313.26	1312.02
12.5	1311.04	1308.72	1306.56	1304.56	1302.72	1301.04	1299.54	1298.20	1297.03	1296.04
15.0	1295.40	1292.64	1290.06	1287.67	1285.47	1283.48	1281.69	1280.10	1278.72	1277.54
17.5	1274.13	1271.14	1268.45	1266.05	1263.96	1262.17	1260.68	1259.49	1258.61	1258.03
20.0	1252.73	1249.36	1246.33	1243.65	1241.31	1239.31	1237.66	1236.36	1235.41	1234.80
22.5	1226.58	1223.05	1220.00	1217.42	1215.33	1213.71	1212.58	1211.92	1211.73	1211.69
25.0	1200.27	1196.39	1193.05	1190.25	1187.99	1186.26	1185.07	1184.40	1184.27	1184.66
27.5	1169.02	1165.13	1161.95	1159.48	1157.70	1156.61	1156.63	1156.48	1156.90	1157.41
30.0	1137.57	1133.43	1130.07	1127.49	1125.67	1124.62	1124.31	1124.75	1125.90	1127.76
32.5	1101.78	1097.71	1094.63	1092.52	1091.38	1091.20	1091.96	1093.18	1094.88	1096.76
35.0	1065.76	1061.49	1058.30	1056.18	1055.11	1055.08	1056.08	1058.06	1061.01	1064.90
37.5	1025.65	1021.60	1018.85	1017.40	1017.21	1018.27	1020.35	1022.69	1026.06	1030.43
40.0	985.30	981.15	978.43	977.11	977.17	978.56	981.25	985.19	990.33	991.76
42.5	941.26	937.52	935.46	935.04	936.21	938.89	942.23	946.73	948.23	948.64
45.0	896.98	893.34	891.53	891.49	893.15	896.43	901.26	904.26	904.73	905.57
47.5	849.28	846.23	845.34	846.54	849.74	854.34	858.35	857.96	859.18	855.81
50.0	801.30	798.47	797.98	799.73	803.63	809.56	810.33	812.95	808.19	804.38
52.5	750.59	748.44	749.02	752.20	758.33	760.46	761.05	758.81	755.47	753.52
55.0	699.60	697.79	698.94	702.90	708.69	709.19	708.91	704.68	702.02	701.15
57.5	646.75	645.84	648.21	653.63	656.04	656.83	652.37	650.03	649.43	649.34
60.0	593.75	593.55	596.90	602.20	602.88	599.89	596.93	595.62	596.16	598.33
62.5	539.27	540.36	545.41	548.28	546.96	543.16	541.68	543.03	544.09	547.25
65.0	484.72	486.93	492.58	493.61	489.26	487.45	487.41	489.47	493.32	497.64
67.5	429.86	433.58	437.06	435.11	432.27	432.23	434.49	438.02	441.43	440.44
70.0	375.19	380.53	381.26	377.49	376.90	378.69	382.57	384.56	383.00	382.34
72.5	321.41	325.28	323.05	321.71	323.34	327.18	327.78	326.85	326.68	326.70
75.0	268.47	270.33	267.66	268.57	272.34	272.28	271.61	271.68	272.26	273.04
77.5	217.37	214.92	215.12	218.87	218.20	217.98	218.38	219.07	220.09	221.28
80.0	166.11	164.56	167.11	166.17	166.44	167.07	168.08	169.12	171.00	172.92
82.5	115.37	118.24	116.22	116.94	118.43	119.92	121.71	123.68	125.91	128.15
85.0	68.42	67.74	67.97	71.81	75.59	77.94	79.94	81.76	83.44	85.11
87.5	24.64	27.39	30.40	34.71	37.64	39.05	40.19	41.21	42.12	43.02
90.0	1.33	1.33	1.33	1.34	1.35	1.36	1.37	1.39	1.40	1.43

Vert. Angles	Horizontal Angles									
	<u>300.0</u>	<u>302.5</u>	<u>305.0</u>	<u>307.5</u>	<u>310.0</u>	<u>312.5</u>	<u>315.0</u>	<u>317.5</u>	<u>320.0</u>	<u>322.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1345.96	1345.57	1345.18	1344.82	1344.48	1344.15	1343.85	1343.57	1343.30	1343.06
5.0	1337.14	1336.35	1335.59	1334.86	1334.17	1333.53	1332.92	1332.35	1331.83	1331.35
7.5	1324.78	1323.99	1323.29	1322.66	1322.12	1322.07	1321.28	1321.20	1320.35	1319.63
10.0	1311.06	1309.84	1308.91	1308.08	1307.37	1306.76	1306.26	1305.88	1305.60	1305.44
12.5	1295.22	1294.58	1294.11	1293.57	1292.69	1291.94	1291.32	1290.85	1290.51	1290.31
15.0	1276.58	1275.83	1275.28	1274.95	1274.83	1274.92	1275.22	1276.13	1275.49	1275.25
17.5	1258.51	1257.11	1256.50	1256.14	1256.02	1256.14	1256.51	1257.11	1257.96	1259.04
20.0	1234.54	1234.62	1235.03	1235.78	1236.85	1237.42	1237.86	1238.68	1239.56	1240.80
22.5	1211.46	1211.60	1212.12	1213.01	1214.26	1215.87	1217.83	1220.11	1221.23	1222.66

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

25.0	1185.55	1186.96	1188.86	1190.42	1191.86	1193.70	1195.91	1198.51	1201.46	1203.24
27.5	1158.49	1160.11	1162.28	1164.98	1168.20	1171.72	1173.28	1172.68	1172.63	1173.14
30.0	1130.31	1133.42	1135.88	1138.91	1140.94	1140.95	1141.62	1142.44	1142.46	1143.06
32.5	1099.67	1103.30	1107.94	1107.57	1107.38	1107.49	1108.33	1109.16	1107.63	1105.19
35.0	1069.29	1070.83	1070.41	1070.86	1072.15	1073.11	1069.60	1067.15	1065.60	1064.93
37.5	1031.86	1032.41	1033.81	1034.81	1030.89	1028.48	1027.07	1025.45	1023.91	1023.28
40.0	991.53	992.41	991.57	989.03	986.75	984.40	983.10	982.80	982.52	981.96
42.5	950.32	948.21	944.63	942.26	941.03	940.69	939.52	939.38	941.10	940.96
45.0	902.03	899.14	897.59	896.02	895.01	895.13	896.32	896.37	897.44	899.49
47.5	852.80	850.22	849.02	849.13	850.14	849.96	851.43	853.75	855.05	857.34
50.0	802.21	801.57	801.06	801.57	803.34	805.39	807.16	809.96	813.07	815.61
52.5	751.86	751.76	753.11	754.69	756.90	760.27	763.50	766.61	770.68	769.10
55.0	701.94	702.66	704.60	707.87	711.15	714.99	718.49	716.31	714.76	714.24
57.5	650.88	653.91	656.86	660.75	664.68	662.52	661.22	660.68	659.24	658.89
60.0	600.85	604.65	609.73	608.08	606.66	606.02	604.88	604.76	604.33	604.05
62.5	551.77	553.16	551.60	550.87	549.75	549.64	549.43	549.38	550.00	549.79
65.0	496.33	495.20	494.09	493.96	493.91	494.00	494.82	494.84	495.69	496.09
67.5	438.48	437.97	437.93	438.11	439.56	439.36	440.38	441.08	441.90	442.89
70.0	382.24	382.22	382.95	383.53	384.63	385.67	386.74	388.03	388.81	390.33
72.5	327.34	327.98	328.97	330.16	331.34	332.87	334.40	336.43	337.59	339.21
75.0	273.99	275.19	276.33	278.67	280.20	282.27	283.90	286.17	287.49	289.21
77.5	222.85	224.87	226.74	228.78	231.04	233.31	235.34	237.29	239.02	240.50
80.0	174.99	177.39	179.68	181.90	184.00	185.93	187.79	189.41	191.00	192.22
82.5	130.27	132.25	134.17	135.97	137.72	139.23	140.76	142.03	143.34	144.28
85.0	87.31	88.10	89.49	90.75	92.02	93.06	94.15	95.02	95.96	96.60
87.5	43.94	44.62	45.37	46.03	46.71	47.25	47.82	48.27	48.77	49.10
90.0	1.46	1.50	1.53	1.57	1.60	1.62	1.63	1.65	1.67	1.69

**Vert.
Angles**

Horizontal Angles

	<u>325.0</u>	<u>327.5</u>	<u>330.0</u>	<u>332.5</u>	<u>335.0</u>	<u>337.5</u>	<u>340.0</u>	<u>342.5</u>	<u>345.0</u>	<u>347.5</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1342.85	1342.65	1342.48	1342.33	1342.21	1342.10	1342.03	1341.97	1341.95	1341.94
5.0	1330.92	1330.53	1330.18	1329.89	1329.64	1329.43	1329.28	1329.17	1329.12	1329.11
7.5	1318.98	1318.40	1317.89	1317.44	1317.07	1316.77	1316.54	1316.38	1316.29	1316.28
10.0	1305.39	1305.45	1305.58	1304.99	1304.50	1304.10	1303.80	1303.59	1303.47	1303.46
12.5	1290.24	1290.32	1290.53	1290.88	1291.36	1291.42	1291.05	1290.79	1290.65	1290.64
15.0	1275.18	1275.27	1275.52	1275.93	1276.50	1277.23	1278.38	1277.99	1277.83	1277.81
17.5	1260.19	1260.30	1260.59	1261.07	1261.73	1262.57	1263.59	1264.79	1265.01	1265.00
20.0	1242.31	1244.07	1245.74	1246.28	1247.03	1247.98	1249.13	1250.48	1252.28	1252.18
22.5	1224.36	1226.36	1228.62	1230.37	1229.76	1229.14	1228.91	1229.07	1229.61	1230.04
25.0	1202.43	1202.10	1202.23	1202.82	1203.88	1203.84	1203.59	1203.76	1204.36	1205.36
27.5	1174.19	1174.55	1174.73	1175.40	1175.38	1175.07	1173.43	1172.07	1171.35	1171.28
30.0	1142.86	1141.69	1140.29	1138.52	1137.46	1137.11	1137.16	1135.69	1134.92	1134.84
32.5	1103.18	1101.97	1101.56	1100.77	1099.68	1099.30	1099.68	1099.35	1098.54	1098.44
35.0	1063.67	1062.45	1062.05	1062.48	1061.97	1061.60	1062.01	1063.04	1062.19	1062.09
37.5	1023.54	1023.09	1022.74	1023.23	1024.39	1024.03	1024.47	1025.69	1025.88	1025.79
40.0	982.31	983.56	983.60	984.18	985.60	986.56	987.04	988.32	989.61	989.52
42.5	941.42	942.80	944.64	945.31	946.84	949.19	949.73	951.08	953.54	953.30
45.0	900.86	902.37	904.77	906.62	908.28	910.80	912.53	913.95	916.18	917.11
47.5	860.73	862.27	864.82	868.10	869.90	871.11	870.93	869.71	869.62	869.30
50.0	819.09	821.64	819.93	819.37	818.45	817.69	818.04	817.03	816.86	817.09
52.5	767.63	767.28	765.88	765.31	765.32	764.51	764.78	764.48	764.23	764.91
55.0	712.79	712.44	712.15	711.57	712.08	711.54	711.75	712.04	711.73	712.46
57.5	658.44	658.09	658.69	658.14	658.62	658.77	658.93	659.71	659.34	659.98
60.0	604.54	604.20	604.84	604.99	605.46	606.20	606.30	607.75	607.05	607.59

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

CANDELA TABULATION - (Cont.)

62.5	550.53	550.75	551.35	552.11	552.58	553.80	553.86	554.83	554.86	555.31
65.0	496.84	497.69	498.27	499.46	499.93	501.26	501.57	502.44	502.75	503.11
67.5	443.65	444.99	445.54	446.86	447.70	449.14	449.91	450.82	451.44	451.82
70.0	391.41	393.14	394.12	395.54	396.62	397.95	398.95	399.76	400.51	400.83
72.5	340.46	342.05	343.26	344.72	346.09	347.44	348.67	349.49	350.41	350.76
75.0	290.80	292.43	293.91	295.19	296.55	297.73	298.98	299.69	300.61	300.92
77.5	242.02	243.41	244.83	245.92	247.18	248.19	249.37	249.99	250.85	251.13
80.0	193.56	194.70	195.96	196.85	197.95	198.80	199.85	200.36	201.13	201.37
82.5	145.36	146.24	147.26	147.95	148.84	149.51	150.39	150.79	151.42	151.64
85.0	97.36	97.96	98.69	99.18	99.81	100.31	100.97	101.27	101.74	101.93
87.5	49.50	49.82	50.21	50.49	50.85	51.17	51.58	51.78	52.07	52.23
90.0	1.71	1.75	1.78	1.85	1.92	2.07	2.21	2.31	2.41	2.55

Vert. Angles **Horizontal Angles**

	<u>350.0</u>	<u>352.5</u>	<u>355.0</u>	<u>357.5</u>	<u>360.0</u>
0.0	1354.78	1354.78	1354.78	1354.78	1354.78
2.5	1341.96	1342.01	1342.08	1342.17	1342.29
5.0	1329.15	1329.24	1329.37	1329.56	1329.79
7.5	1316.34	1316.47	1316.67	1316.95	1317.30
10.0	1303.54	1303.71	1303.98	1304.34	1304.80
12.5	1290.73	1290.95	1291.29	1291.74	1292.31
15.0	1277.94	1278.20	1278.60	1279.13	1279.81
17.5	1265.14	1265.45	1265.91	1266.53	1267.32
20.0	1252.35	1252.70	1253.23	1253.94	1254.82
22.5	1229.43	1229.20	1229.34	1229.85	1230.74
25.0	1205.21	1204.96	1205.13	1205.69	1206.66
27.5	1171.08	1170.10	1169.76	1170.06	1170.99
30.0	1135.40	1134.37	1134.01	1134.33	1135.32
32.5	1099.06	1098.63	1098.26	1098.61	1099.66
35.0	1062.74	1062.89	1062.52	1062.89	1063.99
37.5	1026.46	1027.14	1026.78	1027.17	1028.32
40.0	990.22	991.39	991.04	991.46	992.65
42.5	954.03	955.69	955.30	955.76	956.99
45.0	917.87	919.42	919.57	920.05	921.32
47.5	868.47	868.78	868.33	868.26	869.33
50.0	816.27	816.58	816.39	816.30	817.33
52.5	764.11	764.41	764.45	764.35	765.34
55.0	711.97	712.28	712.52	712.40	713.35
57.5	659.85	660.17	660.59	660.46	661.36
60.0	607.75	608.10	608.66	608.53	609.37
62.5	555.67	556.04	556.74	556.59	557.38
65.0	503.62	504.02	504.81	504.66	505.38
67.5	452.48	452.94	453.83	453.71	454.38
70.0	401.51	401.97	402.88	402.77	403.38
72.5	351.50	351.96	352.87	352.80	353.37
75.0	301.63	302.04	302.88	302.84	303.35
77.5	251.78	252.14	252.90	252.89	253.34
80.0	201.95	202.26	202.91	202.93	203.32
82.5	152.12	152.39	152.93	152.98	153.31
85.0	102.30	102.53	102.95	103.03	103.29
87.5	52.49	52.68	52.97	53.07	53.28
90.0	2.69	2.84	2.98	3.12	3.26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	488.20	12.40	12.40
0-30	1039.41	26.50	26.50
0-40	1704.95	43.40	43.40
0-60	3034.19	77.30	77.30
0-80	3825.28	97.40	97.50
0-90	3924.01	99.90	100.00
10-90	3797.34	96.70	96.80
20-40	1216.75	31.00	31.00
20-50	1912.79	48.70	48.70
40-70	1819.76	46.30	46.40
60-80	791.08	20.10	20.20
70-80	300.56	7.70	7.70
80-90	98.73	2.50	2.50
90-110	0.00	0.00	0.00
90-120	0.00	0.00	0.00
90-130	0.00	0.00	0.00
90-150	0.00	0.00	0.00
90-180	0.00	0.00	0.00
110-180	0.00	0.00	0.00
0-180	3924.01	99.90	100.00

Total Luminaire Efficiency = 99.90%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	126.67
10-20	361.53
20-30	551.20
30-40	665.55
40-50	696.04
50-60	633.20
60-70	490.52
70-80	300.56
80-90	98.73
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

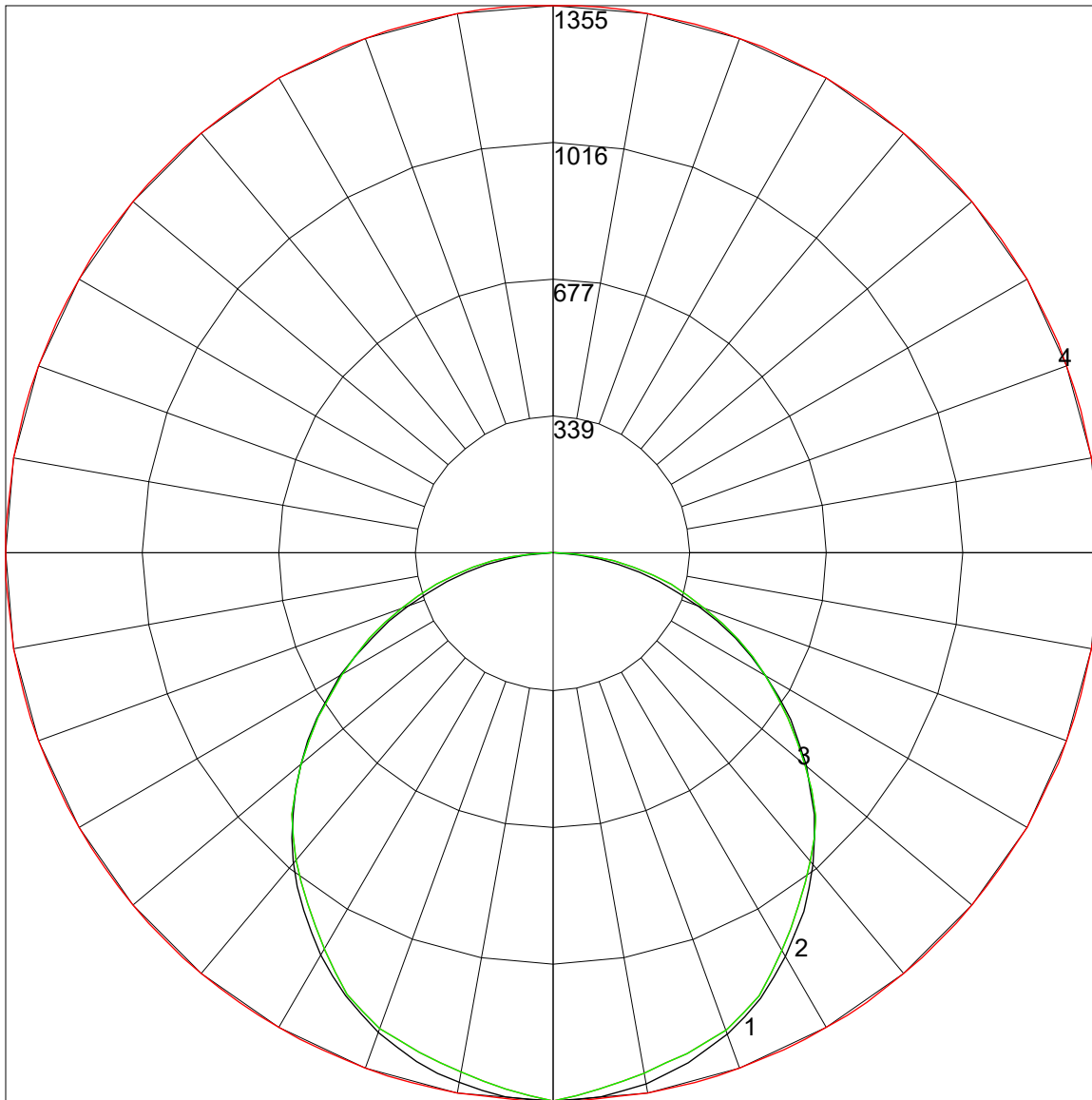
IES INDOOR REPORT
PHOTOMETRIC FILENAME : BLP-22AD-35W-35K.IES

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	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

POLAR GRAPH



Maximum Candela = 1354.78 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (0 - 180)

4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)