

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P973012

Luminaire Tested: 14CGRK-L3C3-UNV-MP4-HI-5000K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DLF2412105-1a)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CGRK-L3C3-UNV-MP4-HI-5000K
Description: 1x4 CGRK Backlit Panel Retrofit Kit at, HI lumen, 5000K CCT settings
Light Source: -
Ballast/Driver: -

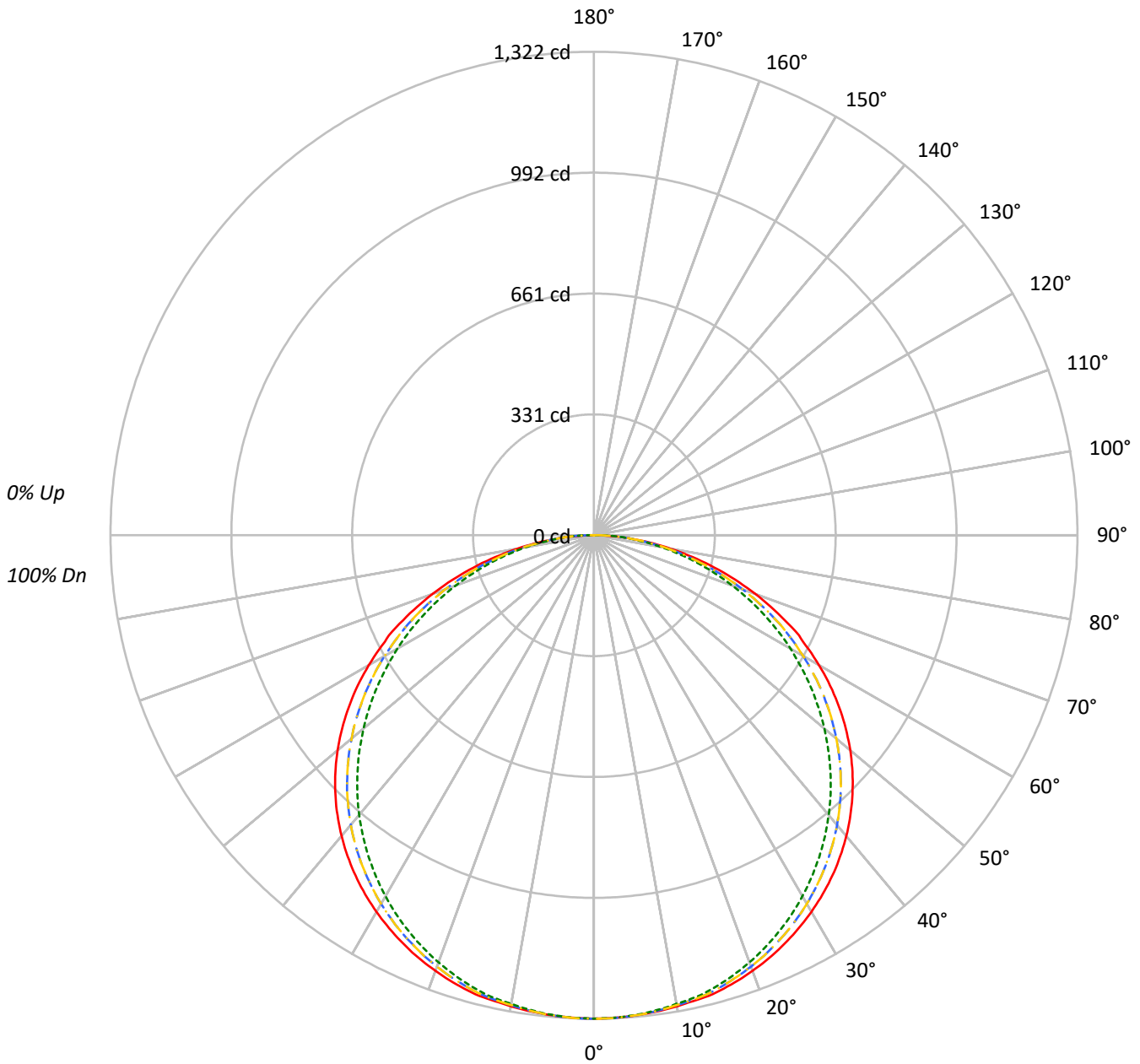
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4150.0 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.28 / 1.43
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82				82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	68				68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57				57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48				48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41				41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36				36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32				32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28				28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25				25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4454	4454	4454	4454
5°	4458	4453	4458	4453
10°	4475	4451	4475	4451
15°	4514	4463	4514	4463
20°	4545	4456	4545	4456
25°	4583	4446	4583	4446
30°	4627	4434	4627	4434
35°	4674	4417	4674	4417
40°	4723	4392	4723	4392
45°	4764	4358	4764	4358
50°	4797	4311	4797	4311
55°	4807	4250	4807	4250
60°	4792	4188	4792	4188
65°	4764	4089	4764	4089
70°	4632	3964	4632	3964
75°	4434	3816	4434	3816
80°	4149	3646	4149	3646
85°	3665	3681	3665	3681

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 89°
 Luminance: 7086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.0
10°-20°	363.3	8.8
20°-30°	560.1	13.5
30°-40°	691.1	16.7
40°-50°	737.1	17.8
50°-60°	687.0	16.6
60°-70°	545.1	13.1
70°-80°	333.4	8.0
80°-90°	107.5	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1048.7	25.3
0°-40°	1739.8	41.9
0°-60°	3163.9	76.2
0°-90°	4150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4150.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1322	1322	1322	1322	1322	
5°	1318	1316	1318	1316	1318	125
15°	1294	1279	1294	1279	1294	365
25°	1233	1196	1233	1196	1233	569
35°	1136	1074	1136	1074	1136	711
45°	1000	914	1000	914	1000	771
55°	818	723	818	723	818	731
65°	598	513	598	513	598	588
75°	341	293	341	293	341	360
85°	95	95	95	95	95	102
90°	0	0	0	0	0	6
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
1°	1321.4	1322.0	1321.8	1321.9	1321.4	1321.7	1321.3	1321.7	1321.4	1321.9	1321.8
2°	1320.8	1321.5	1321.3	1321.3	1320.8	1321.0	1320.8	1321.0	1320.8	1321.3	1321.3
3°	1320.1	1320.8	1320.6	1320.5	1320.0	1320.3	1319.9	1320.3	1320.0	1320.5	1320.6
4°	1319.3	1319.7	1319.5	1319.2	1318.7	1318.8	1318.4	1318.8	1318.7	1319.2	1319.5
5°	1318.0	1318.2	1318.0	1317.8	1317.1	1316.8	1316.5	1316.8	1317.1	1317.8	1318.0
6°	1316.4	1316.7	1316.2	1315.9	1314.9	1314.6	1314.4	1314.6	1314.9	1315.9	1316.2
7°	1314.6	1314.8	1314.2	1313.6	1312.5	1312.0	1311.4	1312.0	1312.5	1313.6	1314.2
8°	1312.8	1312.4	1311.8	1310.7	1309.7	1309.0	1308.4	1309.0	1309.7	1310.7	1311.8
9°	1310.0	1310.0	1309.0	1308.2	1306.7	1305.6	1305.0	1305.6	1306.7	1308.2	1309.0
10°	1307.8	1307.2	1306.0	1304.6	1303.3	1301.9	1301.0	1301.9	1303.3	1304.6	1306.0
11°	1305.0	1304.3	1302.7	1301.6	1300.1	1298.6	1297.8	1298.6	1300.1	1301.6	1302.7
12°	1302.4	1302.1	1300.5	1298.6	1296.9	1295.0	1294.7	1295.0	1296.9	1298.6	1300.5
13°	1300.3	1300.2	1298.4	1295.9	1293.4	1291.3	1291.0	1291.3	1293.4	1295.9	1298.4
14°	1298.2	1297.5	1294.7	1292.0	1289.2	1286.6	1285.3	1286.6	1289.2	1292.0	1294.7
15°	1294.0	1292.8	1290.1	1286.7	1283.4	1280.8	1279.4	1280.8	1283.4	1286.7	1290.1
16°	1289.4	1288.0	1285.2	1281.2	1277.5	1274.4	1272.8	1274.4	1277.5	1281.2	1285.2
17°	1284.5	1283.0	1279.5	1275.4	1271.1	1267.7	1266.1	1267.7	1271.1	1275.4	1279.5
18°	1279.2	1277.5	1273.8	1268.9	1264.3	1260.5	1258.6	1260.5	1264.3	1268.9	1273.8
19°	1273.6	1271.8	1267.6	1262.3	1257.0	1252.9	1250.8	1252.9	1257.0	1262.3	1267.6
20°	1267.6	1265.7	1261.2	1255.2	1249.4	1244.8	1242.8	1244.8	1249.4	1255.2	1261.2
21°	1261.4	1259.2	1254.2	1247.8	1241.6	1236.7	1234.5	1236.7	1241.6	1247.8	1254.2
22°	1255.0	1252.5	1247.0	1240.2	1232.9	1227.7	1225.5	1227.7	1232.9	1240.2	1247.0
23°	1247.9	1245.6	1239.5	1231.6	1224.2	1218.7	1215.9	1218.7	1224.2	1231.6	1239.5
24°	1240.6	1238.0	1231.5	1222.9	1215.0	1208.9	1206.4	1208.9	1215.0	1222.9	1231.5
25°	1232.6	1230.0	1223.2	1214.3	1205.5	1198.9	1195.9	1198.9	1205.5	1214.3	1223.2
26°	1224.6	1221.8	1214.8	1204.7	1195.6	1188.4	1185.7	1188.4	1195.6	1204.7	1214.8
27°	1216.3	1213.3	1205.9	1195.2	1185.2	1177.6	1174.5	1177.6	1185.2	1195.2	1205.9
28°	1207.5	1204.7	1196.5	1185.0	1174.5	1166.4	1163.7	1166.4	1174.5	1185.0	1196.5
29°	1198.5	1195.2	1186.7	1174.7	1163.2	1155.0	1151.9	1155.0	1163.2	1174.7	1186.7
30°	1189.1	1185.7	1176.5	1163.8	1151.9	1143.0	1139.6	1143.0	1151.9	1163.8	1176.5
31°	1179.3	1175.7	1166.1	1152.6	1139.9	1130.6	1127.3	1130.6	1139.9	1152.6	1166.1
32°	1169.2	1165.3	1155.2	1140.9	1127.6	1118.0	1114.4	1118.0	1127.6	1140.9	1155.2
33°	1158.6	1154.5	1143.7	1128.8	1114.8	1104.6	1101.1	1104.6	1114.8	1128.8	1143.7
34°	1147.7	1143.3	1131.9	1116.7	1102.0	1091.1	1087.6	1091.1	1102.0	1116.7	1131.9
35°	1136.3	1131.6	1120.0	1103.8	1088.5	1077.7	1073.8	1077.7	1088.5	1103.8	1120.0
36°	1124.7	1119.8	1107.4	1090.6	1074.7	1063.2	1059.6	1063.2	1074.7	1090.6	1107.4
37°	1112.4	1107.5	1094.5	1077.1	1060.7	1048.8	1044.8	1048.8	1060.7	1077.1	1094.5
38°	1100.0	1094.8	1081.2	1063.2	1046.0	1034.1	1029.9	1034.1	1046.0	1063.2	1081.2
39°	1086.9	1081.6	1067.4	1048.9	1031.2	1018.8	1014.1	1018.8	1031.2	1048.9	1067.4
40°	1073.7	1068.1	1053.0	1034.0	1015.9	1003.1	998.5	1003.1	1015.9	1034.0	1053.0
41°	1059.6	1053.9	1038.8	1019.0	1000.3	987.1	982.5	987.1	1000.3	1019.0	1038.8
42°	1045.3	1039.5	1023.6	1003.4	984.3	970.7	965.9	970.7	984.3	1003.4	1023.6
43°	1030.7	1024.6	1008.5	987.5	968.0	954.1	949.2	954.1	968.0	987.5	1008.5
44°	1015.7	1009.2	992.6	971.4	951.2	937.0	931.8	937.0	951.2	971.4	992.6



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	999.8	993.5	976.3	954.6	934.2	919.6	914.5	919.6	934.2	954.6	976.3
46°	983.8	977.2	959.5	937.4	916.7	902.1	896.7	902.1	916.7	937.4	959.5
47°	967.1	960.5	942.6	920.0	898.9	883.7	878.5	883.7	898.9	920.0	942.6
48°	950.2	943.5	925.3	902.4	880.8	865.4	860.2	865.4	880.8	902.4	925.3
49°	932.6	925.7	907.2	883.9	862.2	846.9	841.1	846.9	862.2	883.9	907.2
50°	915.0	907.8	888.9	865.4	843.4	827.8	822.4	827.8	843.4	865.4	888.9
51°	896.4	889.3	870.5	846.6	824.3	808.9	803.3	808.9	824.3	846.6	870.5
52°	877.3	870.1	851.2	827.0	804.7	789.2	783.7	789.2	804.7	827.0	851.2
53°	858.1	851.0	831.8	807.6	785.1	769.6	763.7	769.6	785.1	807.6	831.8
54°	838.2	831.0	811.8	787.4	765.2	749.7	744.3	749.7	765.2	787.4	811.8
55°	818.3	810.9	791.7	767.2	744.8	729.3	723.4	729.3	744.8	767.2	791.7
56°	797.6	790.3	770.9	746.7	724.1	708.8	703.2	708.8	724.1	746.7	770.9
57°	776.8	769.2	750.2	725.6	703.3	688.2	682.5	688.2	703.3	725.6	750.2
58°	755.2	747.8	728.6	704.4	682.3	667.1	661.6	667.1	682.3	704.4	728.6
59°	733.3	725.9	706.9	682.7	660.9	646.0	640.6	646.0	660.9	682.7	706.9
60°	711.1	703.6	684.9	660.9	639.5	625.3	621.4	625.3	639.5	660.9	684.9
61°	688.1	680.8	662.2	638.7	618.3	604.2	599.8	604.2	618.3	638.7	662.2
62°	665.1	657.9	639.6	616.7	596.8	583.0	578.5	583.0	596.8	616.7	639.6
63°	641.8	634.5	615.9	595.0	575.2	561.6	556.8	561.6	575.2	595.0	615.9
64°	623.9	611.4	594.1	572.9	552.8	539.6	534.7	539.6	552.8	572.9	594.1
65°	597.5	588.2	571.5	549.7	530.3	517.5	512.8	517.5	530.3	549.7	571.5
66°	571.1	564.4	547.4	526.4	507.7	495.4	490.8	495.4	507.7	526.4	547.4
67°	546.3	539.8	523.4	503.2	485.1	473.0	468.8	473.0	485.1	503.2	523.4
68°	521.1	514.8	499.0	479.7	462.2	450.7	446.6	450.7	462.2	479.7	499.0
69°	495.7	489.6	474.5	456.0	439.2	428.4	424.5	428.4	439.2	456.0	474.5
70°	470.2	464.4	449.9	432.3	416.5	406.1	402.4	406.1	416.5	432.3	449.9
71°	444.2	438.9	425.3	408.5	393.5	383.9	380.4	383.9	393.5	408.5	425.3
72°	418.4	413.4	400.4	384.9	370.9	361.6	358.3	361.6	370.9	384.9	400.4
73°	392.5	387.9	375.6	361.2	348.0	339.5	336.4	339.5	348.0	361.2	375.6
74°	366.5	362.2	351.0	337.5	325.5	317.6	314.8	317.6	325.5	337.5	351.0
75°	340.6	336.6	326.4	314.0	303.0	295.7	293.1	295.7	303.0	314.0	326.4
76°	315.0	311.3	302.1	290.8	280.8	274.2	271.8	274.2	280.8	290.8	302.1
77°	289.2	286.1	277.7	267.7	258.6	252.6	250.3	252.6	258.6	267.7	277.7
78°	263.9	260.9	253.6	244.7	236.7	231.3	229.3	231.3	236.7	244.7	253.6
79°	238.9	236.3	230.0	222.1	215.0	210.3	208.6	210.3	215.0	222.1	230.0
80°	213.8	212.0	206.6	199.8	193.6	189.5	187.9	189.5	193.6	199.8	206.6
81°	189.2	187.7	183.6	177.9	172.7	169.3	168.2	169.3	172.7	177.9	183.6
82°	164.9	163.8	160.9	156.3	152.0	149.6	148.7	149.6	152.0	156.3	160.9
83°	140.9	140.1	138.2	134.8	131.7	130.0	129.2	130.0	131.7	134.8	138.2
84°	117.4	117.2	115.9	114.3	112.4	111.8	111.5	111.8	112.4	114.3	115.9
85°	94.8	94.9	94.4	94.3	94.6	95.2	95.2	95.2	94.6	94.3	94.4
86°	73.2	73.5	74.0	76.1	78.6	79.9	80.3	79.9	78.6	76.1	74.0
87°	52.6	53.4	55.8	59.8	63.8	65.7	66.2	65.7	63.8	59.8	55.8
88°	34.1	35.2	40.0	45.5	49.3	52.0	51.9	52.0	49.3	45.5	40.0
89°	16.4	19.5	24.8	30.6	34.1	36.7	34.9	36.7	34.1	30.6	24.8



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973012
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973012
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973012
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9	1321.9
1°	1322.0	1321.4	1322.0	1321.8	1321.9	1321.4	1321.7	1321.3	1321.7	1321.4	1321.9
2°	1321.5	1320.8	1321.5	1321.3	1321.3	1320.8	1321.0	1320.8	1321.0	1320.8	1321.3
3°	1320.8	1320.1	1320.8	1320.6	1320.5	1320.0	1320.3	1319.9	1320.3	1320.0	1320.5
4°	1319.7	1319.3	1319.7	1319.5	1319.2	1318.7	1318.8	1318.4	1318.8	1318.7	1319.2
5°	1318.2	1318.0	1318.2	1318.0	1317.8	1317.1	1316.8	1316.5	1316.8	1317.1	1317.8
6°	1316.7	1316.4	1316.7	1316.2	1315.9	1314.9	1314.6	1314.4	1314.6	1314.9	1315.9
7°	1314.8	1314.6	1314.8	1314.2	1313.6	1312.5	1312.0	1311.4	1312.0	1312.5	1313.6
8°	1312.4	1312.8	1312.4	1311.8	1310.7	1309.7	1309.0	1308.4	1309.0	1309.7	1310.7
9°	1310.0	1310.0	1310.0	1309.0	1308.2	1306.7	1305.6	1305.0	1305.6	1306.7	1308.2
10°	1307.2	1307.8	1307.2	1306.0	1304.6	1303.3	1301.9	1301.0	1301.9	1303.3	1304.6
11°	1304.3	1305.0	1304.3	1302.7	1301.6	1300.1	1298.6	1297.8	1298.6	1300.1	1301.6
12°	1302.1	1302.4	1302.1	1300.5	1298.6	1296.9	1295.0	1294.7	1295.0	1296.9	1298.6
13°	1300.2	1300.3	1300.2	1298.4	1295.9	1293.4	1291.3	1291.0	1291.3	1293.4	1295.9
14°	1297.5	1298.2	1297.5	1294.7	1292.0	1289.2	1286.6	1285.3	1286.6	1289.2	1292.0
15°	1292.8	1294.0	1292.8	1290.1	1286.7	1283.4	1280.8	1279.4	1280.8	1283.4	1286.7
16°	1288.0	1289.4	1288.0	1285.2	1281.2	1277.5	1274.4	1272.8	1274.4	1277.5	1281.2
17°	1283.0	1284.5	1283.0	1279.5	1275.4	1271.1	1267.7	1266.1	1267.7	1271.1	1275.4
18°	1277.5	1279.2	1277.5	1273.8	1268.9	1264.3	1260.5	1258.6	1260.5	1264.3	1268.9
19°	1271.8	1273.6	1271.8	1267.6	1262.3	1257.0	1252.9	1250.8	1252.9	1257.0	1262.3
20°	1265.7	1267.6	1265.7	1261.2	1255.2	1249.4	1244.8	1242.8	1244.8	1249.4	1255.2
21°	1259.2	1261.4	1259.2	1254.2	1247.8	1241.6	1236.7	1234.5	1236.7	1241.6	1247.8
22°	1252.5	1255.0	1252.5	1247.0	1240.2	1232.9	1227.7	1225.5	1227.7	1232.9	1240.2
23°	1245.6	1247.9	1245.6	1239.5	1231.6	1224.2	1218.7	1215.9	1218.7	1224.2	1231.6
24°	1238.0	1240.6	1238.0	1231.5	1222.9	1215.0	1208.9	1206.4	1208.9	1215.0	1222.9
25°	1230.0	1232.6	1230.0	1223.2	1214.3	1205.5	1198.9	1195.9	1198.9	1205.5	1214.3
26°	1221.8	1224.6	1221.8	1214.8	1204.7	1195.6	1188.4	1185.7	1188.4	1195.6	1204.7
27°	1213.3	1216.3	1213.3	1205.9	1195.2	1185.2	1177.6	1174.5	1177.6	1185.2	1195.2
28°	1204.7	1207.5	1204.7	1196.5	1185.0	1174.5	1166.4	1163.7	1166.4	1174.5	1185.0
29°	1195.2	1198.5	1195.2	1186.7	1174.7	1163.2	1155.0	1151.9	1155.0	1163.2	1174.7
30°	1185.7	1189.1	1185.7	1176.5	1163.8	1151.9	1143.0	1139.6	1143.0	1151.9	1163.8
31°	1175.7	1179.3	1175.7	1166.1	1152.6	1139.9	1130.6	1127.3	1130.6	1139.9	1152.6
32°	1165.3	1169.2	1165.3	1155.2	1140.9	1127.6	1118.0	1114.4	1118.0	1127.6	1140.9
33°	1154.5	1158.6	1154.5	1143.7	1128.8	1114.8	1104.6	1101.1	1104.6	1114.8	1128.8
34°	1143.3	1147.7	1143.3	1131.9	1116.7	1102.0	1091.1	1087.6	1091.1	1102.0	1116.7
35°	1131.6	1136.3	1131.6	1120.0	1103.8	1088.5	1077.7	1073.8	1077.7	1088.5	1103.8
36°	1119.8	1124.7	1119.8	1107.4	1090.6	1074.7	1063.2	1059.6	1063.2	1074.7	1090.6
37°	1107.5	1112.4	1107.5	1094.5	1077.1	1060.7	1048.8	1044.8	1048.8	1060.7	1077.1
38°	1094.8	1100.0	1094.8	1081.2	1063.2	1046.0	1034.1	1029.9	1034.1	1046.0	1063.2
39°	1081.6	1086.9	1081.6	1067.4	1048.9	1031.2	1018.8	1014.1	1018.8	1031.2	1048.9
40°	1068.1	1073.7	1068.1	1053.0	1034.0	1015.9	1003.1	998.5	1003.1	1015.9	1034.0
41°	1053.9	1059.6	1053.9	1038.8	1019.0	1000.3	987.1	982.5	987.1	1000.3	1019.0
42°	1039.5	1045.3	1039.5	1023.6	1003.4	984.3	970.7	965.9	970.7	984.3	1003.4
43°	1024.6	1030.7	1024.6	1008.5	987.5	968.0	954.1	949.2	954.1	968.0	987.5
44°	1009.2	1015.7	1009.2	992.6	971.4	951.2	937.0	931.8	937.0	951.2	971.4



TEST NUMBER: P973012
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	993.5	999.8	993.5	976.3	954.6	934.2	919.6	914.5	919.6	934.2	954.6
46°	977.2	983.8	977.2	959.5	937.4	916.7	902.1	896.7	902.1	916.7	937.4
47°	960.5	967.1	960.5	942.6	920.0	898.9	883.7	878.5	883.7	898.9	920.0
48°	943.5	950.2	943.5	925.3	902.4	880.8	865.4	860.2	865.4	880.8	902.4
49°	925.7	932.6	925.7	907.2	883.9	862.2	846.9	841.1	846.9	862.2	883.9
50°	907.8	915.0	907.8	888.9	865.4	843.4	827.8	822.4	827.8	843.4	865.4
51°	889.3	896.4	889.3	870.5	846.6	824.3	808.9	803.3	808.9	824.3	846.6
52°	870.1	877.3	870.1	851.2	827.0	804.7	789.2	783.7	789.2	804.7	827.0
53°	851.0	858.1	851.0	831.8	807.6	785.1	769.6	763.7	769.6	785.1	807.6
54°	831.0	838.2	831.0	811.8	787.4	765.2	749.7	744.3	749.7	765.2	787.4
55°	810.9	818.3	810.9	791.7	767.2	744.8	729.3	723.4	729.3	744.8	767.2
56°	790.3	797.6	790.3	770.9	746.7	724.1	708.8	703.2	708.8	724.1	746.7
57°	769.2	776.8	769.2	750.2	725.6	703.3	688.2	682.5	688.2	703.3	725.6
58°	747.8	755.2	747.8	728.6	704.4	682.3	667.1	661.6	667.1	682.3	704.4
59°	725.9	733.3	725.9	706.9	682.7	660.9	646.0	640.6	646.0	660.9	682.7
60°	703.6	711.1	703.6	684.9	660.9	639.5	625.3	621.4	625.3	639.5	660.9
61°	680.8	688.1	680.8	662.2	638.7	618.3	604.2	599.8	604.2	618.3	638.7
62°	657.9	665.1	657.9	639.6	616.7	596.8	583.0	578.5	583.0	596.8	616.7
63°	634.5	641.8	634.5	615.9	595.0	575.2	561.6	556.8	561.6	575.2	595.0
64°	611.4	623.9	611.4	594.1	572.9	552.8	539.6	534.7	539.6	552.8	572.9
65°	588.2	597.5	588.2	571.5	549.7	530.3	517.5	512.8	517.5	530.3	549.7
66°	564.4	571.1	564.4	547.4	526.4	507.7	495.4	490.8	495.4	507.7	526.4
67°	539.8	546.3	539.8	523.4	503.2	485.1	473.0	468.8	473.0	485.1	503.2
68°	514.8	521.1	514.8	499.0	479.7	462.2	450.7	446.6	450.7	462.2	479.7
69°	489.6	495.7	489.6	474.5	456.0	439.2	428.4	424.5	428.4	439.2	456.0
70°	464.4	470.2	464.4	449.9	432.3	416.5	406.1	402.4	406.1	416.5	432.3
71°	438.9	444.2	438.9	425.3	408.5	393.5	383.9	380.4	383.9	393.5	408.5
72°	413.4	418.4	413.4	400.4	384.9	370.9	361.6	358.3	361.6	370.9	384.9
73°	387.9	392.5	387.9	375.6	361.2	348.0	339.5	336.4	339.5	348.0	361.2
74°	362.2	366.5	362.2	351.0	337.5	325.5	317.6	314.8	317.6	325.5	337.5
75°	336.6	340.6	336.6	326.4	314.0	303.0	295.7	293.1	295.7	303.0	314.0
76°	311.3	315.0	311.3	302.1	290.8	280.8	274.2	271.8	274.2	280.8	290.8
77°	286.1	289.2	286.1	277.7	267.7	258.6	252.6	250.3	252.6	258.6	267.7
78°	260.9	263.9	260.9	253.6	244.7	236.7	231.3	229.3	231.3	236.7	244.7
79°	236.3	238.9	236.3	230.0	222.1	215.0	210.3	208.6	210.3	215.0	222.1
80°	212.0	213.8	212.0	206.6	199.8	193.6	189.5	187.9	189.5	193.6	199.8
81°	187.7	189.2	187.7	183.6	177.9	172.7	169.3	168.2	169.3	172.7	177.9
82°	163.8	164.9	163.8	160.9	156.3	152.0	149.6	148.7	149.6	152.0	156.3
83°	140.1	140.9	140.1	138.2	134.8	131.7	130.0	129.2	130.0	131.7	134.8
84°	117.2	117.4	117.2	115.9	114.3	112.4	111.8	111.5	111.8	112.4	114.3
85°	94.9	94.8	94.9	94.4	94.3	94.6	95.2	95.2	95.2	94.6	94.3
86°	73.5	73.2	73.5	74.0	76.1	78.6	79.9	80.3	79.9	78.6	76.1
87°	53.4	52.6	53.4	55.8	59.8	63.8	65.7	66.2	65.7	63.8	59.8
88°	35.2	34.1	35.2	40.0	45.5	49.3	52.0	51.9	52.0	49.3	45.5
89°	19.5	16.4	19.5	24.8	30.6	34.1	36.7	34.9	36.7	34.1	30.6



TEST NUMBER: P973012
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
99°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
101°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
103°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
104°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
106°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
108°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
111°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
113°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
118°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
119°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
121°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
123°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
124°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
131°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
134°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973012
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
136°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
138°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
139°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
141°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
144°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
146°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
148°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
151°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
153°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
154°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
156°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
158°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
159°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
161°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
163°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
164°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
166°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
168°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
169°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
171°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
173°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
174°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
176°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973012
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P973012
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1321.9	1321.9	1321.9
1°	1321.8	1322.0	1321.4
2°	1321.3	1321.5	1320.8
3°	1320.6	1320.8	1320.1
4°	1319.5	1319.7	1319.3
5°	1318.0	1318.2	1318.0
6°	1316.2	1316.7	1316.4
7°	1314.2	1314.8	1314.6
8°	1311.8	1312.4	1312.8
9°	1309.0	1310.0	1310.0
10°	1306.0	1307.2	1307.8
11°	1302.7	1304.3	1305.0
12°	1300.5	1302.1	1302.4
13°	1298.4	1300.2	1300.3
14°	1294.7	1297.5	1298.2
15°	1290.1	1292.8	1294.0
16°	1285.2	1288.0	1289.4
17°	1279.5	1283.0	1284.5
18°	1273.8	1277.5	1279.2
19°	1267.6	1271.8	1273.6
20°	1261.2	1265.7	1267.6
21°	1254.2	1259.2	1261.4
22°	1247.0	1252.5	1255.0
23°	1239.5	1245.6	1247.9
24°	1231.5	1238.0	1240.6
25°	1223.2	1230.0	1232.6
26°	1214.8	1221.8	1224.6
27°	1205.9	1213.3	1216.3
28°	1196.5	1204.7	1207.5
29°	1186.7	1195.2	1198.5
30°	1176.5	1185.7	1189.1
31°	1166.1	1175.7	1179.3
32°	1155.2	1165.3	1169.2
33°	1143.7	1154.5	1158.6
34°	1131.9	1143.3	1147.7
35°	1120.0	1131.6	1136.3
36°	1107.4	1119.8	1124.7
37°	1094.5	1107.5	1112.4
38°	1081.2	1094.8	1100.0
39°	1067.4	1081.6	1086.9
40°	1053.0	1068.1	1073.7
41°	1038.8	1053.9	1059.6
42°	1023.6	1039.5	1045.3
43°	1008.5	1024.6	1030.7
44°	992.6	1009.2	1015.7



TEST NUMBER: P973012

CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	976.3	993.5	999.8
46°	959.5	977.2	983.8
47°	942.6	960.5	967.1
48°	925.3	943.5	950.2
49°	907.2	925.7	932.6
50°	888.9	907.8	915.0
51°	870.5	889.3	896.4
52°	851.2	870.1	877.3
53°	831.8	851.0	858.1
54°	811.8	831.0	838.2
55°	791.7	810.9	818.3
56°	770.9	790.3	797.6
57°	750.2	769.2	776.8
58°	728.6	747.8	755.2
59°	706.9	725.9	733.3
60°	684.9	703.6	711.1
61°	662.2	680.8	688.1
62°	639.6	657.9	665.1
63°	615.9	634.5	641.8
64°	594.1	611.4	623.9
65°	571.5	588.2	597.5
66°	547.4	564.4	571.1
67°	523.4	539.8	546.3
68°	499.0	514.8	521.1
69°	474.5	489.6	495.7
70°	449.9	464.4	470.2
71°	425.3	438.9	444.2
72°	400.4	413.4	418.4
73°	375.6	387.9	392.5
74°	351.0	362.2	366.5
75°	326.4	336.6	340.6
76°	302.1	311.3	315.0
77°	277.7	286.1	289.2
78°	253.6	260.9	263.9
79°	230.0	236.3	238.9
80°	206.6	212.0	213.8
81°	183.6	187.7	189.2
82°	160.9	163.8	164.9
83°	138.2	140.1	140.9
84°	115.9	117.2	117.4
85°	94.4	94.9	94.8
86°	74.0	73.5	73.2
87°	55.8	53.4	52.6
88°	40.0	35.2	34.1
89°	24.8	19.5	16.4



TEST NUMBER: P973012
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
90°	0.0	0.0	0.0
91°	0.0	0.0	0.0
92°	0.0	0.0	0.0
93°	0.0	0.0	0.0
94°	0.0	0.0	0.0
95°	0.0	0.0	0.0
96°	0.0	0.0	0.0
97°	0.0	0.0	0.0
98°	0.0	0.0	0.0
99°	0.0	0.0	0.0
100°	0.0	0.0	0.0
101°	0.0	0.0	0.0
102°	0.0	0.0	0.0
103°	0.0	0.0	0.0
104°	0.0	0.0	0.0
105°	0.0	0.0	0.0
106°	0.0	0.0	0.0
107°	0.0	0.0	0.0
108°	0.0	0.0	0.0
109°	0.0	0.0	0.0
110°	0.0	0.0	0.0
111°	0.0	0.0	0.0
112°	0.0	0.0	0.0
113°	0.0	0.0	0.0
114°	0.0	0.0	0.0
115°	0.0	0.0	0.0
116°	0.0	0.0	0.0
117°	0.0	0.0	0.0
118°	0.0	0.0	0.0
119°	0.0	0.0	0.0
120°	0.0	0.0	0.0
121°	0.0	0.0	0.0
122°	0.0	0.0	0.0
123°	0.0	0.0	0.0
124°	0.0	0.0	0.0
125°	0.0	0.0	0.0
126°	0.0	0.0	0.0
127°	0.0	0.0	0.0
128°	0.0	0.0	0.0
129°	0.0	0.0	0.0
130°	0.0	0.0	0.0
131°	0.0	0.0	0.0
132°	0.0	0.0	0.0
133°	0.0	0.0	0.0
134°	0.0	0.0	0.0



TEST NUMBER: P973012
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
135°	0.0	0.0	0.0
136°	0.0	0.0	0.0
137°	0.0	0.0	0.0
138°	0.0	0.0	0.0
139°	0.0	0.0	0.0
140°	0.0	0.0	0.0
141°	0.0	0.0	0.0
142°	0.0	0.0	0.0
143°	0.0	0.0	0.0
144°	0.0	0.0	0.0
145°	0.0	0.0	0.0
146°	0.0	0.0	0.0
147°	0.0	0.0	0.0
148°	0.0	0.0	0.0
149°	0.0	0.0	0.0
150°	0.0	0.0	0.0
151°	0.0	0.0	0.0
152°	0.0	0.0	0.0
153°	0.0	0.0	0.0
154°	0.0	0.0	0.0
155°	0.0	0.0	0.0
156°	0.0	0.0	0.0
157°	0.0	0.0	0.0
158°	0.0	0.0	0.0
159°	0.0	0.0	0.0
160°	0.0	0.0	0.0
161°	0.0	0.0	0.0
162°	0.0	0.0	0.0
163°	0.0	0.0	0.0
164°	0.0	0.0	0.0
165°	0.0	0.0	0.0
166°	0.0	0.0	0.0
167°	0.0	0.0	0.0
168°	0.0	0.0	0.0
169°	0.0	0.0	0.0
170°	0.0	0.0	0.0
171°	0.0	0.0	0.0
172°	0.0	0.0	0.0
173°	0.0	0.0	0.0
174°	0.0	0.0	0.0
175°	0.0	0.0	0.0
176°	0.0	0.0	0.0
177°	0.0	0.0	0.0
178°	0.0	0.0	0.0
179°	0.0	0.0	0.0



TEST NUMBER: P973012
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973012
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-5000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.85	19.53	18.22	19.85	20.16	17.14	18.82	17.50	19.13	19.45
	3H	19.88	21.41	20.26	21.73	22.09	19.05	20.58	19.43	20.91	21.27
	4H	20.67	22.11	21.06	22.45	22.83	19.81	21.25	20.21	21.60	21.97
	6H	21.27	22.61	21.68	22.97	23.36	20.41	21.74	20.82	22.11	22.50
	8H	21.48	22.76	21.90	23.15	23.55	20.62	21.90	21.05	22.29	22.69
	12H	21.58	22.81	22.01	23.19	23.61	20.74	21.97	21.17	22.35	22.78
4H	2H	18.46	19.90	18.86	20.24	20.62	17.91	19.35	18.30	19.69	20.07
	3H	20.72	21.93	21.12	22.33	22.73	20.03	21.25	20.44	21.65	22.04
	4H	21.64	22.75	22.08	23.16	23.59	20.92	22.02	21.35	22.43	22.87
	6H	22.40	23.37	22.85	23.81	24.26	21.65	22.62	22.10	23.06	23.51
	8H	22.67	23.57	23.12	24.01	24.48	21.92	22.83	22.38	23.27	23.73
	12H	22.83	23.65	23.31	24.12	24.59	22.11	22.93	22.59	23.41	23.87
8H	4H	21.96	22.87	22.42	23.31	23.77	21.33	22.24	21.79	22.68	23.14
	6H	22.86	23.61	23.35	24.10	24.57	22.20	22.96	22.69	23.44	23.92
	8H	23.21	23.89	23.72	24.39	24.88	22.56	23.24	23.07	23.74	24.23
	12H	23.47	24.08	23.98	24.56	25.12	22.86	23.46	23.36	23.95	24.51
12H	4H	22.00	22.82	22.48	23.29	23.76	21.39	22.21	21.87	22.68	23.15
	6H	22.92	23.60	23.43	24.11	24.59	22.29	22.98	22.80	23.48	23.97
	8H	23.34	23.94	23.84	24.43	24.99	22.72	23.32	23.23	23.81	24.37