

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: P973010

Luminaire Tested: 14CGRK-L3C3-UNV-MP4-HI-3500K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973010
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-3500K
Description: 1x4 CGRK Backlit Panel Retrofit Kit at, HI lumen, 3500K CCT settings
Light Source: -
Ballast/Driver: -

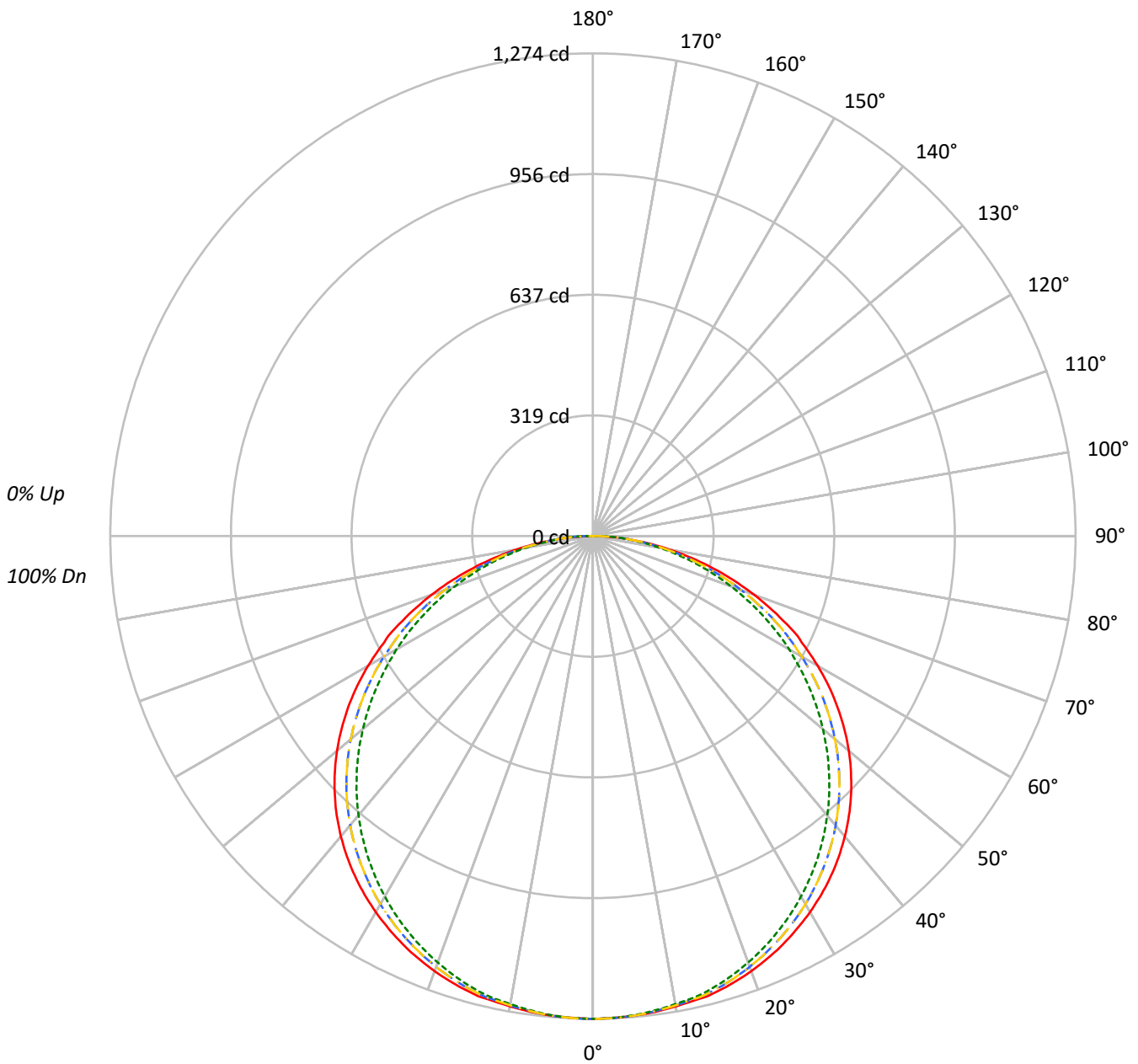
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 139.9 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): 28.6
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	102	102	102	100
1	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	85	85	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	74	70	70	70	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	59	59	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	50	50	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	43	43	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	38	38	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	30	30	30	28
9	55	42	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4294	4294	4294	4294
5°	4297	4292	4297	4292
10°	4313	4291	4313	4291
15°	4351	4302	4351	4302
20°	4381	4295	4381	4295
25°	4417	4286	4417	4286
30°	4459	4274	4459	4274
35°	4505	4257	4505	4257
40°	4552	4233	4552	4233
45°	4592	4201	4592	4201
50°	4623	4155	4623	4155
55°	4634	4096	4634	4096
60°	4619	4036	4619	4036
65°	4592	3940	4592	3940
70°	4465	3821	4465	3821
75°	4274	3678	4274	3678
80°	3999	3514	3999	3514
85°	3530	3545	3530	3545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 89°
 Luminance: 6835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	3.0
10°-20°	350.2	8.8
20°-30°	539.8	13.5
30°-40°	666.1	16.7
40°-50°	710.5	17.8
50°-60°	662.1	16.6
60°-70°	525.4	13.1
70°-80°	321.4	8.0
80°-90°	103.6	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°	1010.8	25.3
0°-40°	1676.9	41.9
0°-60°	3049.5	76.2
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1274	1274	1274	1274	1274	
5°	1270	1269	1270	1269	1270	121
15°	1247	1233	1247	1233	1247	352
25°	1188	1153	1188	1153	1188	548
35°	1095	1035	1095	1035	1095	686
45°	964	882	964	882	964	743
55°	789	697	789	697	789	704
65°	576	494	576	494	576	567
75°	328	282	328	282	328	347
85°	91	92	91	92	91	98
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°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2
1°	1273.7	1274.2	1274.1	1274.2	1273.7	1274.0	1273.6	1274.0	1273.7	1274.2	1274.1
2°	1273.0	1273.8	1273.6	1273.6	1273.1	1273.3	1273.0	1273.3	1273.1	1273.6	1273.6
3°	1272.3	1273.1	1272.8	1272.7	1272.3	1272.5	1272.2	1272.5	1272.3	1272.7	1272.8
4°	1271.6	1272.0	1271.8	1271.5	1271.0	1271.1	1270.7	1271.1	1271.0	1271.5	1271.8
5°	1270.4	1270.5	1270.4	1270.2	1269.5	1269.2	1268.9	1269.2	1269.5	1270.2	1270.4
6°	1268.8	1269.1	1268.6	1268.4	1267.4	1267.1	1266.9	1267.1	1267.4	1268.4	1268.6
7°	1267.1	1267.3	1266.7	1266.1	1265.0	1264.6	1264.0	1264.6	1265.0	1266.1	1266.7
8°	1265.3	1264.9	1264.4	1263.3	1262.4	1261.7	1261.1	1261.7	1262.4	1263.3	1264.4
9°	1262.7	1262.7	1261.7	1260.9	1259.4	1258.4	1257.8	1258.4	1259.4	1260.9	1261.7
10°	1260.6	1260.0	1258.8	1257.4	1256.2	1254.9	1254.0	1254.9	1256.2	1257.4	1258.8
11°	1257.8	1257.1	1255.6	1254.6	1253.2	1251.6	1250.9	1251.6	1253.2	1254.6	1255.6
12°	1255.3	1255.1	1253.5	1251.6	1250.0	1248.2	1247.9	1248.2	1250.0	1251.6	1253.5
13°	1253.3	1253.2	1251.4	1249.1	1246.7	1244.6	1244.3	1244.6	1246.7	1249.1	1251.4
14°	1251.3	1250.6	1247.9	1245.3	1242.6	1240.1	1238.8	1240.1	1242.6	1245.3	1247.9
15°	1247.3	1246.1	1243.5	1240.2	1237.0	1234.5	1233.2	1234.5	1237.0	1240.2	1243.5
16°	1242.8	1241.5	1238.7	1234.9	1231.3	1228.3	1226.8	1228.3	1231.3	1234.9	1238.7
17°	1238.0	1236.6	1233.3	1229.3	1225.1	1221.9	1220.4	1221.9	1225.1	1229.3	1233.3
18°	1233.0	1231.3	1227.8	1223.0	1218.6	1214.9	1213.1	1214.9	1218.6	1223.0	1227.8
19°	1227.6	1225.9	1221.8	1216.7	1211.5	1207.6	1205.6	1207.6	1211.5	1216.7	1221.8
20°	1221.8	1220.0	1215.6	1209.8	1204.2	1199.8	1197.8	1199.8	1204.2	1209.8	1215.6
21°	1215.8	1213.7	1208.9	1202.7	1196.7	1192.0	1189.9	1192.0	1196.7	1202.7	1208.9
22°	1209.6	1207.3	1201.9	1195.4	1188.3	1183.3	1181.2	1183.3	1188.3	1195.4	1201.9
23°	1202.8	1200.6	1194.7	1187.1	1180.0	1174.7	1172.0	1174.7	1180.0	1187.1	1194.7
24°	1195.8	1193.3	1187.0	1178.7	1171.0	1165.2	1162.8	1165.2	1171.0	1178.7	1187.0
25°	1188.1	1185.6	1179.0	1170.4	1161.9	1155.6	1152.7	1155.6	1161.9	1170.4	1179.0
26°	1180.4	1177.6	1170.9	1161.2	1152.4	1145.5	1142.8	1145.5	1152.4	1161.2	1170.9
27°	1172.4	1169.4	1162.3	1152.0	1142.3	1135.0	1132.1	1135.0	1142.3	1152.0	1162.3
28°	1163.8	1161.2	1153.3	1142.2	1132.1	1124.2	1121.6	1124.2	1132.1	1142.2	1153.3
29°	1155.2	1152.0	1143.8	1132.3	1121.2	1113.3	1110.2	1113.3	1121.2	1132.3	1143.8
30°	1146.1	1142.8	1134.0	1121.7	1110.2	1101.7	1098.4	1101.7	1110.2	1121.7	1134.0
31°	1136.6	1133.2	1123.9	1111.0	1098.7	1089.7	1086.6	1089.7	1098.7	1111.0	1123.9
32°	1127.0	1123.2	1113.5	1099.7	1086.9	1077.6	1074.1	1077.6	1086.9	1099.7	1113.5
33°	1116.7	1112.8	1102.3	1088.0	1074.5	1064.7	1061.3	1064.7	1074.5	1088.0	1102.3
34°	1106.2	1102.0	1091.0	1076.3	1062.1	1051.7	1048.3	1051.7	1062.1	1076.3	1091.0
35°	1095.2	1090.7	1079.5	1063.9	1049.1	1038.8	1035.0	1038.8	1049.1	1063.9	1079.5
36°	1084.1	1079.3	1067.4	1051.2	1035.8	1024.8	1021.3	1024.8	1035.8	1051.2	1067.4
37°	1072.2	1067.5	1054.9	1038.2	1022.3	1010.9	1007.0	1010.9	1022.3	1038.2	1054.9
38°	1060.2	1055.2	1042.1	1024.8	1008.2	996.8	992.7	996.8	1008.2	1024.8	1042.1
39°	1047.6	1042.5	1028.8	1011.0	993.9	981.9	977.5	981.9	993.9	1011.0	1028.8
40°	1034.9	1029.5	1014.9	996.7	979.2	966.8	962.4	966.8	979.2	996.7	1014.9
41°	1021.3	1015.8	1001.2	982.1	964.2	951.4	947.0	951.4	964.2	982.1	1001.2
42°	1007.5	1001.9	986.6	967.1	948.7	935.6	930.9	935.6	948.7	967.1	986.6
43°	993.4	987.5	972.1	951.8	933.0	919.6	914.9	919.6	933.0	951.8	972.1
44°	979.0	972.7	956.8	936.3	916.8	903.1	898.1	903.1	916.8	936.3	956.8



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	963.7	957.6	941.0	920.1	900.4	886.4	881.5	886.4	900.4	920.1	941.0
46°	948.2	941.9	924.8	903.5	883.6	869.5	864.3	869.5	883.6	903.5	924.8
47°	932.1	925.8	908.5	886.8	866.4	851.8	846.7	851.8	866.4	886.8	908.5
48°	915.9	909.4	891.9	869.8	848.9	834.2	829.1	834.2	848.9	869.8	891.9
49°	898.9	892.2	874.4	852.0	831.0	816.3	810.7	816.3	831.0	852.0	874.4
50°	881.9	874.9	856.8	834.1	812.9	797.9	792.7	797.9	812.9	834.1	856.8
51°	864.0	857.1	839.0	816.0	794.5	779.6	774.3	779.6	794.5	816.0	839.0
52°	845.6	838.7	820.4	797.1	775.6	760.6	755.4	760.6	775.6	797.1	820.4
53°	827.1	820.2	801.7	778.4	756.8	741.8	736.1	741.8	756.8	778.4	801.7
54°	807.9	801.0	782.5	759.0	737.5	722.6	717.4	722.6	737.5	759.0	782.5
55°	788.8	781.6	763.0	739.4	717.9	702.9	697.3	702.9	717.9	739.4	763.0
56°	768.7	761.7	743.1	719.7	698.0	683.2	677.8	683.2	698.0	719.7	743.1
57°	748.7	741.4	723.0	699.4	677.9	663.3	657.9	663.3	677.9	699.4	723.0
58°	727.9	720.8	702.3	678.9	657.6	643.0	637.7	643.0	657.6	678.9	702.3
59°	706.8	699.6	681.3	658.0	637.0	622.7	617.4	622.7	637.0	658.0	681.3
60°	685.4	678.1	660.1	637.0	616.4	602.7	598.9	602.7	616.4	637.0	660.1
61°	663.3	656.2	638.2	615.6	596.0	582.4	578.1	582.4	596.0	615.6	638.2
62°	641.1	634.1	616.4	594.4	575.3	561.9	557.6	561.9	575.3	594.4	616.4
63°	618.6	611.6	593.6	573.5	554.4	541.3	536.6	541.3	554.4	573.5	593.6
64°	601.3	589.3	572.6	552.2	532.9	520.1	515.3	520.1	532.9	552.2	572.6
65°	575.9	566.9	550.9	529.9	511.1	498.8	494.2	498.8	511.1	529.9	550.9
66°	550.5	544.0	527.6	507.4	489.4	477.5	473.0	477.5	489.4	507.4	527.6
67°	526.6	520.3	504.5	485.0	467.5	455.9	451.9	455.9	467.5	485.0	504.5
68°	502.2	496.2	480.9	462.3	445.5	434.4	430.5	434.4	445.5	462.3	480.9
69°	477.8	471.9	457.4	439.5	423.3	412.9	409.2	412.9	423.3	439.5	457.4
70°	453.2	447.6	433.7	416.7	401.4	391.4	387.8	391.4	401.4	416.7	433.7
71°	428.2	423.0	409.9	393.7	379.3	370.0	366.6	370.0	379.3	393.7	409.9
72°	403.2	398.4	386.0	371.0	357.5	348.6	345.3	348.6	357.5	371.0	386.0
73°	378.3	373.9	362.0	348.1	335.4	327.3	324.3	327.3	335.4	348.1	362.0
74°	353.3	349.1	338.4	325.3	313.7	306.1	303.4	306.1	313.7	325.3	338.4
75°	328.3	324.4	314.6	302.6	292.0	285.0	282.5	285.0	292.0	302.6	314.6
76°	303.6	300.0	291.2	280.3	270.7	264.2	261.9	264.2	270.7	280.3	291.2
77°	278.7	275.7	267.7	258.0	249.2	243.5	241.3	243.5	249.2	258.0	267.7
78°	254.4	251.5	244.5	235.9	228.2	222.9	221.0	222.9	228.2	235.9	244.5
79°	230.3	227.8	221.7	214.1	207.3	202.7	201.0	202.7	207.3	214.1	221.7
80°	206.1	204.3	199.1	192.6	186.6	182.7	181.1	182.7	186.6	192.6	199.1
81°	182.4	180.9	176.9	171.5	166.5	163.2	162.1	163.2	166.5	171.5	176.9
82°	159.0	157.9	155.0	150.6	146.5	144.2	143.3	144.2	146.5	150.6	155.0
83°	135.8	135.0	133.2	129.9	126.9	125.3	124.5	125.3	126.9	129.9	133.2
84°	113.2	113.0	111.7	110.2	108.4	107.8	107.4	107.8	108.4	110.2	111.7
85°	91.3	91.4	91.0	90.9	91.2	91.8	91.7	91.8	91.2	90.9	91.0
86°	70.6	70.8	71.3	73.4	75.8	77.0	77.4	77.0	75.8	73.4	71.3
87°	50.7	51.5	53.8	57.6	61.5	63.3	63.8	63.3	61.5	57.6	53.8
88°	32.8	33.9	38.6	43.9	47.5	50.1	50.1	50.1	47.5	43.9	38.6
89°	15.8	18.8	23.9	29.5	32.8	35.4	33.6	35.4	32.8	29.5	23.9



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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: P973010
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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: P973010
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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: P973010
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2	1274.2
1°	1274.2	1273.7	1274.2	1274.1	1274.2	1273.7	1274.0	1273.6	1274.0	1273.7	1274.2
2°	1273.8	1273.0	1273.8	1273.6	1273.6	1273.1	1273.3	1273.0	1273.3	1273.1	1273.6
3°	1273.1	1272.3	1273.1	1272.8	1272.7	1272.3	1272.5	1272.2	1272.5	1272.3	1272.7
4°	1272.0	1271.6	1272.0	1271.8	1271.5	1271.0	1271.1	1270.7	1271.1	1271.0	1271.5
5°	1270.5	1270.4	1270.5	1270.4	1270.2	1269.5	1269.2	1268.9	1269.2	1269.5	1270.2
6°	1269.1	1268.8	1269.1	1268.6	1268.4	1267.4	1267.1	1266.9	1267.1	1267.4	1268.4
7°	1267.3	1267.1	1267.3	1266.7	1266.1	1265.0	1264.6	1264.0	1264.6	1265.0	1266.1
8°	1264.9	1265.3	1264.9	1264.4	1263.3	1262.4	1261.7	1261.1	1261.7	1262.4	1263.3
9°	1262.7	1262.7	1262.7	1261.7	1260.9	1259.4	1258.4	1257.8	1258.4	1259.4	1260.9
10°	1260.0	1260.6	1260.0	1258.8	1257.4	1256.2	1254.9	1254.0	1254.9	1256.2	1257.4
11°	1257.1	1257.8	1257.1	1255.6	1254.6	1253.2	1251.6	1250.9	1251.6	1253.2	1254.6
12°	1255.1	1255.3	1255.1	1253.5	1251.6	1250.0	1248.2	1247.9	1248.2	1250.0	1251.6
13°	1253.2	1253.3	1253.2	1251.4	1249.1	1246.7	1244.6	1244.3	1244.6	1246.7	1249.1
14°	1250.6	1251.3	1250.6	1247.9	1245.3	1242.6	1240.1	1238.8	1240.1	1242.6	1245.3
15°	1246.1	1247.3	1246.1	1243.5	1240.2	1237.0	1234.5	1233.2	1234.5	1237.0	1240.2
16°	1241.5	1242.8	1241.5	1238.7	1234.9	1231.3	1228.3	1226.8	1228.3	1231.3	1234.9
17°	1236.6	1238.0	1236.6	1233.3	1229.3	1225.1	1221.9	1220.4	1221.9	1225.1	1229.3
18°	1231.3	1233.0	1231.3	1227.8	1223.0	1218.6	1214.9	1213.1	1214.9	1218.6	1223.0
19°	1225.9	1227.6	1225.9	1221.8	1216.7	1211.5	1207.6	1205.6	1207.6	1211.5	1216.7
20°	1220.0	1221.8	1220.0	1215.6	1209.8	1204.2	1199.8	1197.8	1199.8	1204.2	1209.8
21°	1213.7	1215.8	1213.7	1208.9	1202.7	1196.7	1192.0	1189.9	1192.0	1196.7	1202.7
22°	1207.3	1209.6	1207.3	1201.9	1195.4	1188.3	1183.3	1181.2	1183.3	1188.3	1195.4
23°	1200.6	1202.8	1200.6	1194.7	1187.1	1180.0	1174.7	1172.0	1174.7	1180.0	1187.1
24°	1193.3	1195.8	1193.3	1187.0	1178.7	1171.0	1165.2	1162.8	1165.2	1171.0	1178.7
25°	1185.6	1188.1	1185.6	1179.0	1170.4	1161.9	1155.6	1152.7	1155.6	1161.9	1170.4
26°	1177.6	1180.4	1177.6	1170.9	1161.2	1152.4	1145.5	1142.8	1145.5	1152.4	1161.2
27°	1169.4	1172.4	1169.4	1162.3	1152.0	1142.3	1135.0	1132.1	1135.0	1142.3	1152.0
28°	1161.2	1163.8	1161.2	1153.3	1142.2	1132.1	1124.2	1121.6	1124.2	1132.1	1142.2
29°	1152.0	1155.2	1152.0	1143.8	1132.3	1121.2	1113.3	1110.2	1113.3	1121.2	1132.3
30°	1142.8	1146.1	1142.8	1134.0	1121.7	1110.2	1101.7	1098.4	1101.7	1110.2	1121.7
31°	1133.2	1136.6	1133.2	1123.9	1111.0	1098.7	1089.7	1086.6	1089.7	1098.7	1111.0
32°	1123.2	1127.0	1123.2	1113.5	1099.7	1086.9	1077.6	1074.1	1077.6	1086.9	1099.7
33°	1112.8	1116.7	1112.8	1102.3	1088.0	1074.5	1064.7	1061.3	1064.7	1074.5	1088.0
34°	1102.0	1106.2	1102.0	1091.0	1076.3	1062.1	1051.7	1048.3	1051.7	1062.1	1076.3
35°	1090.7	1095.2	1090.7	1079.5	1063.9	1049.1	1038.8	1035.0	1038.8	1049.1	1063.9
36°	1079.3	1084.1	1079.3	1067.4	1051.2	1035.8	1024.8	1021.3	1024.8	1035.8	1051.2
37°	1067.5	1072.2	1067.5	1054.9	1038.2	1022.3	1010.9	1007.0	1010.9	1022.3	1038.2
38°	1055.2	1060.2	1055.2	1042.1	1024.8	1008.2	996.8	992.7	996.8	1008.2	1024.8
39°	1042.5	1047.6	1042.5	1028.8	1011.0	993.9	981.9	977.5	981.9	993.9	1011.0
40°	1029.5	1034.9	1029.5	1014.9	996.7	979.2	966.8	962.4	966.8	979.2	996.7
41°	1015.8	1021.3	1015.8	1001.2	982.1	964.2	951.4	947.0	951.4	964.2	982.1
42°	1001.9	1007.5	1001.9	986.6	967.1	948.7	935.6	930.9	935.6	948.7	967.1
43°	987.5	993.4	987.5	972.1	951.8	933.0	919.6	914.9	919.6	933.0	951.8
44°	972.7	979.0	972.7	956.8	936.3	916.8	903.1	898.1	903.1	916.8	936.3



TEST NUMBER: P973010
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	957.6	963.7	957.6	941.0	920.1	900.4	886.4	881.5	886.4	900.4	920.1
46°	941.9	948.2	941.9	924.8	903.5	883.6	869.5	864.3	869.5	883.6	903.5
47°	925.8	932.1	925.8	908.5	886.8	866.4	851.8	846.7	851.8	866.4	886.8
48°	909.4	915.9	909.4	891.9	869.8	848.9	834.2	829.1	834.2	848.9	869.8
49°	892.2	898.9	892.2	874.4	852.0	831.0	816.3	810.7	816.3	831.0	852.0
50°	874.9	881.9	874.9	856.8	834.1	812.9	797.9	792.7	797.9	812.9	834.1
51°	857.1	864.0	857.1	839.0	816.0	794.5	779.6	774.3	779.6	794.5	816.0
52°	838.7	845.6	838.7	820.4	797.1	775.6	760.6	755.4	760.6	775.6	797.1
53°	820.2	827.1	820.2	801.7	778.4	756.8	741.8	736.1	741.8	756.8	778.4
54°	801.0	807.9	801.0	782.5	759.0	737.5	722.6	717.4	722.6	737.5	759.0
55°	781.6	788.8	781.6	763.0	739.4	717.9	702.9	697.3	702.9	717.9	739.4
56°	761.7	768.7	761.7	743.1	719.7	698.0	683.2	677.8	683.2	698.0	719.7
57°	741.4	748.7	741.4	723.0	699.4	677.9	663.3	657.9	663.3	677.9	699.4
58°	720.8	727.9	720.8	702.3	678.9	657.6	643.0	637.7	643.0	657.6	678.9
59°	699.6	706.8	699.6	681.3	658.0	637.0	622.7	617.4	622.7	637.0	658.0
60°	678.1	685.4	678.1	660.1	637.0	616.4	602.7	598.9	602.7	616.4	637.0
61°	656.2	663.3	656.2	638.2	615.6	596.0	582.4	578.1	582.4	596.0	615.6
62°	634.1	641.1	634.1	616.4	594.4	575.3	561.9	557.6	561.9	575.3	594.4
63°	611.6	618.6	611.6	593.6	573.5	554.4	541.3	536.6	541.3	554.4	573.5
64°	589.3	601.3	589.3	572.6	552.2	532.9	520.1	515.3	520.1	532.9	552.2
65°	566.9	575.9	566.9	550.9	529.9	511.1	498.8	494.2	498.8	511.1	529.9
66°	544.0	550.5	544.0	527.6	507.4	489.4	477.5	473.0	477.5	489.4	507.4
67°	520.3	526.6	520.3	504.5	485.0	467.5	455.9	451.9	455.9	467.5	485.0
68°	496.2	502.2	496.2	480.9	462.3	445.5	434.4	430.5	434.4	445.5	462.3
69°	471.9	477.8	471.9	457.4	439.5	423.3	412.9	409.2	412.9	423.3	439.5
70°	447.6	453.2	447.6	433.7	416.7	401.4	391.4	387.8	391.4	401.4	416.7
71°	423.0	428.2	423.0	409.9	393.7	379.3	370.0	366.6	370.0	379.3	393.7
72°	398.4	403.2	398.4	386.0	371.0	357.5	348.6	345.3	348.6	357.5	371.0
73°	373.9	378.3	373.9	362.0	348.1	335.4	327.3	324.3	327.3	335.4	348.1
74°	349.1	353.3	349.1	338.4	325.3	313.7	306.1	303.4	306.1	313.7	325.3
75°	324.4	328.3	324.4	314.6	302.6	292.0	285.0	282.5	285.0	292.0	302.6
76°	300.0	303.6	300.0	291.2	280.3	270.7	264.2	261.9	264.2	270.7	280.3
77°	275.7	278.7	275.7	267.7	258.0	249.2	243.5	241.3	243.5	249.2	258.0
78°	251.5	254.4	251.5	244.5	235.9	228.2	222.9	221.0	222.9	228.2	235.9
79°	227.8	230.3	227.8	221.7	214.1	207.3	202.7	201.0	202.7	207.3	214.1
80°	204.3	206.1	204.3	199.1	192.6	186.6	182.7	181.1	182.7	186.6	192.6
81°	180.9	182.4	180.9	176.9	171.5	166.5	163.2	162.1	163.2	166.5	171.5
82°	157.9	159.0	157.9	155.0	150.6	146.5	144.2	143.3	144.2	146.5	150.6
83°	135.0	135.8	135.0	133.2	129.9	126.9	125.3	124.5	125.3	126.9	129.9
84°	113.0	113.2	113.0	111.7	110.2	108.4	107.8	107.4	107.8	108.4	110.2
85°	91.4	91.3	91.4	91.0	90.9	91.2	91.8	91.7	91.8	91.2	90.9
86°	70.8	70.6	70.8	71.3	73.4	75.8	77.0	77.4	77.0	75.8	73.4
87°	51.5	50.7	51.5	53.8	57.6	61.5	63.3	63.8	63.3	61.5	57.6
88°	33.9	32.8	33.9	38.6	43.9	47.5	50.1	50.1	50.1	47.5	43.9
89°	18.8	15.8	18.8	23.9	29.5	32.8	35.4	33.6	35.4	32.8	29.5



TEST NUMBER: P973010
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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: P973010
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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: P973010
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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: P973010
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1274.2	1274.2	1274.2
1°	1274.1	1274.2	1273.7
2°	1273.6	1273.8	1273.0
3°	1272.8	1273.1	1272.3
4°	1271.8	1272.0	1271.6
5°	1270.4	1270.5	1270.4
6°	1268.6	1269.1	1268.8
7°	1266.7	1267.3	1267.1
8°	1264.4	1264.9	1265.3
9°	1261.7	1262.7	1262.7
10°	1258.8	1260.0	1260.6
11°	1255.6	1257.1	1257.8
12°	1253.5	1255.1	1255.3
13°	1251.4	1253.2	1253.3
14°	1247.9	1250.6	1251.3
15°	1243.5	1246.1	1247.3
16°	1238.7	1241.5	1242.8
17°	1233.3	1236.6	1238.0
18°	1227.8	1231.3	1233.0
19°	1221.8	1225.9	1227.6
20°	1215.6	1220.0	1221.8
21°	1208.9	1213.7	1215.8
22°	1201.9	1207.3	1209.6
23°	1194.7	1200.6	1202.8
24°	1187.0	1193.3	1195.8
25°	1179.0	1185.6	1188.1
26°	1170.9	1177.6	1180.4
27°	1162.3	1169.4	1172.4
28°	1153.3	1161.2	1163.8
29°	1143.8	1152.0	1155.2
30°	1134.0	1142.8	1146.1
31°	1123.9	1133.2	1136.6
32°	1113.5	1123.2	1127.0
33°	1102.3	1112.8	1116.7
34°	1091.0	1102.0	1106.2
35°	1079.5	1090.7	1095.2
36°	1067.4	1079.3	1084.1
37°	1054.9	1067.5	1072.2
38°	1042.1	1055.2	1060.2
39°	1028.8	1042.5	1047.6
40°	1014.9	1029.5	1034.9
41°	1001.2	1015.8	1021.3
42°	986.6	1001.9	1007.5
43°	972.1	987.5	993.4
44°	956.8	972.7	979.0



TEST NUMBER: P973010
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	941.0	957.6	963.7
46°	924.8	941.9	948.2
47°	908.5	925.8	932.1
48°	891.9	909.4	915.9
49°	874.4	892.2	898.9
50°	856.8	874.9	881.9
51°	839.0	857.1	864.0
52°	820.4	838.7	845.6
53°	801.7	820.2	827.1
54°	782.5	801.0	807.9
55°	763.0	781.6	788.8
56°	743.1	761.7	768.7
57°	723.0	741.4	748.7
58°	702.3	720.8	727.9
59°	681.3	699.6	706.8
60°	660.1	678.1	685.4
61°	638.2	656.2	663.3
62°	616.4	634.1	641.1
63°	593.6	611.6	618.6
64°	572.6	589.3	601.3
65°	550.9	566.9	575.9
66°	527.6	544.0	550.5
67°	504.5	520.3	526.6
68°	480.9	496.2	502.2
69°	457.4	471.9	477.8
70°	433.7	447.6	453.2
71°	409.9	423.0	428.2
72°	386.0	398.4	403.2
73°	362.0	373.9	378.3
74°	338.4	349.1	353.3
75°	314.6	324.4	328.3
76°	291.2	300.0	303.6
77°	267.7	275.7	278.7
78°	244.5	251.5	254.4
79°	221.7	227.8	230.3
80°	199.1	204.3	206.1
81°	176.9	180.9	182.4
82°	155.0	157.9	159.0
83°	133.2	135.0	135.8
84°	111.7	113.0	113.2
85°	91.0	91.4	91.3
86°	71.3	70.8	70.6
87°	53.8	51.5	50.7
88°	38.6	33.9	32.8
89°	23.9	18.8	15.8



TEST NUMBER: P973010
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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: P973010
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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: P973010
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973010
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-3500K

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	17.72	19.40	18.09	19.72	20.03	17.01	18.69	17.38	19.01	19.32
	3H	19.75	21.28	20.13	21.60	21.96	18.93	20.45	19.30	20.78	21.14
	4H	20.54	21.98	20.94	22.32	22.70	19.68	21.12	20.08	21.47	21.84
	6H	21.15	22.48	21.56	22.85	23.24	20.28	21.62	20.69	21.98	22.37
	8H	21.35	22.63	21.78	23.02	23.42	20.50	21.78	20.92	22.16	22.56
	12H	21.45	22.68	21.88	23.06	23.49	20.62	21.84	21.04	22.22	22.65
4H	2H	18.33	19.77	18.73	20.12	20.49	17.78	19.22	18.17	19.56	19.94
	3H	20.59	21.80	21.00	22.20	22.60	19.91	21.12	20.32	21.52	21.92
	4H	21.52	22.62	21.95	23.03	23.47	20.79	21.89	21.22	22.30	22.74
	6H	22.27	23.24	22.72	23.68	24.13	21.52	22.49	21.97	22.93	23.38
	8H	22.54	23.44	23.00	23.89	24.35	21.79	22.70	22.25	23.14	23.60
	12H	22.71	23.52	23.18	24.00	24.46	21.99	22.80	22.47	23.28	23.75
8H	4H	21.83	22.74	22.29	23.18	23.65	21.20	22.11	21.66	22.55	23.01
	6H	22.73	23.49	23.22	23.97	24.45	22.07	22.83	22.56	23.32	23.79
	8H	23.08	23.76	23.59	24.27	24.75	22.43	23.11	22.94	23.62	24.10
	12H	23.34	23.95	23.85	24.44	24.99	22.73	23.33	23.23	23.82	24.38
12H	4H	21.88	22.69	22.35	23.17	23.63	21.26	22.08	21.74	22.55	23.02
	6H	22.79	23.48	23.30	23.98	24.46	22.17	22.85	22.67	23.35	23.84
	8H	23.21	23.82	23.72	24.30	24.86	22.59	23.20	23.10	23.69	24.24