

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: P973011

Luminaire Tested: 14CGRK-L3C3-UNV-MP4-HI-4000K

Issue Date: 3/12/2025

Test Information

Test Method: LM-79-2019
Report Number: P973011
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-4000K
Description: 1x4 CGRK Backlit Panel Retrofit Kit at, HI lumen, 4000K CCT settings
Light Source: -
Ballast/Driver: -

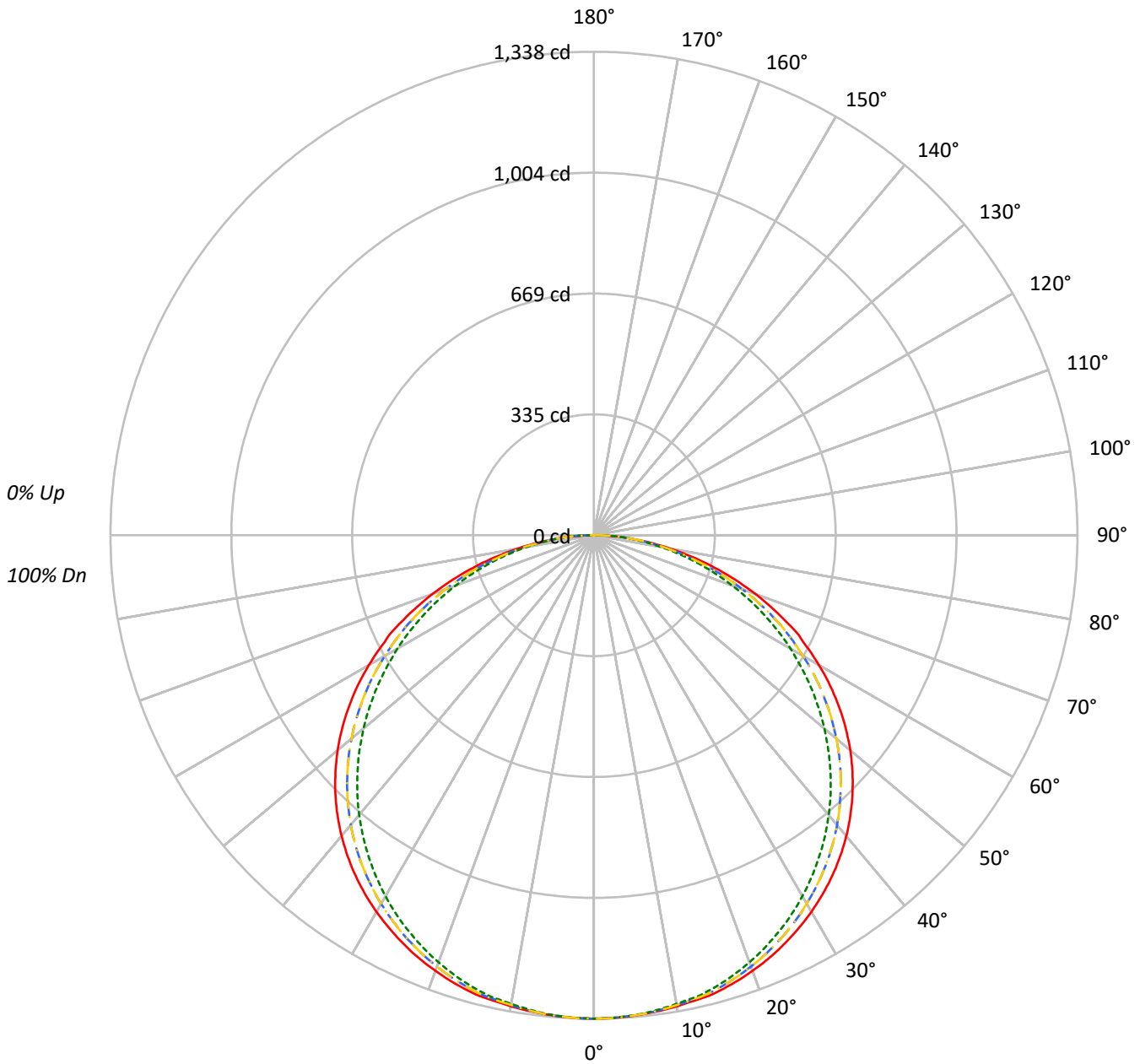
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4200.0 lumens
Efficiency: N/A
Efficacy: 146.9 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

TEST NUMBER: P973011
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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°	4508	4508	4508	4508
5°	4512	4507	4512	4507
10°	4529	4505	4529	4505
15°	4568	4517	4568	4517
20°	4600	4510	4600	4510
25°	4638	4500	4638	4500
30°	4683	4488	4683	4488
35°	4731	4470	4731	4470
40°	4780	4445	4780	4445
45°	4822	4410	4822	4410
50°	4854	4363	4854	4363
55°	4865	4301	4865	4301
60°	4850	4238	4850	4238
65°	4821	4137	4821	4137
70°	4689	4012	4689	4012
75°	4488	3861	4488	3861
80°	4199	3691	4199	3691
85°	3708	3723	3708	3723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 75°
 Vertical Angle: 89°
 Luminance: 7182 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	3.0
10°-20°	367.7	8.8
20°-30°	566.8	13.5
30°-40°	699.4	16.7
40°-50°	746.0	17.8
50°-60°	695.2	16.6
60°-70°	551.7	13.1
70°-80°	337.5	8.0
80°-90°	108.8	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°	1061.3	25.3
0°-40°	1760.8	41.9
0°-60°	3202.0	76.2
0°-90°	4200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1338	1338	1338	1338	1338	
5°	1334	1332	1334	1332	1334	127
15°	1310	1295	1310	1295	1310	370
25°	1248	1210	1248	1210	1248	576
35°	1150	1087	1150	1087	1150	720
45°	1012	926	1012	926	1012	780
55°	828	732	828	732	828	739
65°	605	519	605	519	605	595
75°	345	297	345	297	345	364
85°	96	96	96	96	96	103
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°	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9
1°	1337.4	1338.0	1337.8	1337.9	1337.4	1337.7	1337.3	1337.7	1337.4	1337.9	1337.8
2°	1336.7	1337.5	1337.3	1337.3	1336.8	1337.0	1336.7	1337.0	1336.8	1337.3	1337.3
3°	1336.0	1336.8	1336.5	1336.4	1335.9	1336.2	1335.8	1336.2	1335.9	1336.4	1336.5
4°	1335.2	1335.6	1335.4	1335.1	1334.6	1334.7	1334.3	1334.7	1334.6	1335.1	1335.4
5°	1333.9	1334.1	1333.9	1333.7	1333.0	1332.7	1332.4	1332.7	1333.0	1333.7	1333.9
6°	1332.3	1332.6	1332.1	1331.8	1330.8	1330.5	1330.3	1330.5	1330.8	1331.8	1332.1
7°	1330.5	1330.7	1330.1	1329.4	1328.3	1327.8	1327.2	1327.8	1328.3	1329.4	1330.1
8°	1328.6	1328.2	1327.6	1326.5	1325.5	1324.8	1324.2	1324.8	1325.5	1326.5	1327.6
9°	1325.8	1325.8	1324.8	1324.0	1322.4	1321.3	1320.7	1321.3	1322.4	1324.0	1324.8
10°	1323.6	1323.0	1321.7	1320.3	1319.0	1317.6	1316.7	1317.6	1319.0	1320.3	1321.7
11°	1320.7	1320.0	1318.4	1317.3	1315.8	1314.2	1313.4	1314.2	1315.8	1317.3	1318.4
12°	1318.1	1317.8	1316.2	1314.2	1312.5	1310.6	1310.3	1310.6	1312.5	1314.2	1316.2
13°	1316.0	1315.9	1314.0	1311.5	1309.0	1306.8	1306.5	1306.8	1309.0	1311.5	1314.0
14°	1313.8	1313.1	1310.3	1307.5	1304.7	1302.1	1300.7	1302.1	1304.7	1307.5	1310.3
15°	1309.6	1308.4	1305.6	1302.2	1298.8	1296.3	1294.9	1296.3	1298.8	1302.2	1305.6
16°	1304.9	1303.5	1300.6	1296.7	1292.9	1289.8	1288.2	1289.8	1292.9	1296.7	1300.6
17°	1299.9	1298.4	1295.0	1290.8	1286.4	1283.0	1281.4	1283.0	1286.4	1290.8	1295.0
18°	1294.7	1292.9	1289.2	1284.2	1279.5	1275.7	1273.8	1275.7	1279.5	1284.2	1289.2
19°	1289.0	1287.2	1282.9	1277.5	1272.1	1268.0	1265.9	1268.0	1272.1	1277.5	1282.9
20°	1282.9	1281.0	1276.4	1270.3	1264.4	1259.8	1257.7	1259.8	1264.4	1270.3	1276.4
21°	1276.6	1274.4	1269.3	1262.8	1256.5	1251.6	1249.4	1251.6	1256.5	1262.8	1269.3
22°	1270.1	1267.6	1262.0	1255.1	1247.8	1242.5	1240.3	1242.5	1247.8	1255.1	1262.0
23°	1262.9	1260.6	1254.4	1246.5	1239.0	1233.4	1230.6	1233.4	1239.0	1246.5	1254.4
24°	1255.5	1252.9	1246.4	1237.7	1229.6	1223.5	1220.9	1223.5	1229.6	1237.7	1246.4
25°	1247.5	1244.9	1238.0	1228.9	1220.0	1213.3	1210.3	1213.3	1220.0	1228.9	1238.0
26°	1239.4	1236.5	1229.4	1219.2	1210.0	1202.8	1200.0	1202.8	1210.0	1219.2	1229.4
27°	1231.0	1227.9	1220.4	1209.6	1199.5	1191.8	1188.7	1191.8	1199.5	1209.6	1220.4
28°	1222.0	1219.2	1210.9	1199.3	1188.7	1180.4	1177.7	1180.4	1188.7	1199.3	1210.9
29°	1212.9	1209.6	1201.0	1188.9	1177.2	1168.9	1165.7	1168.9	1177.2	1188.9	1201.0
30°	1203.5	1200.0	1190.7	1177.8	1165.7	1156.8	1153.4	1156.8	1165.7	1177.8	1190.7
31°	1193.5	1189.9	1180.1	1166.5	1153.7	1144.2	1140.9	1144.2	1153.7	1166.5	1180.1
32°	1183.3	1179.3	1169.1	1154.7	1141.2	1131.5	1127.8	1131.5	1141.2	1154.7	1169.1
33°	1172.5	1168.4	1157.5	1142.4	1128.2	1117.9	1114.4	1117.9	1128.2	1142.4	1157.5
34°	1161.5	1157.1	1145.6	1130.1	1115.2	1104.3	1100.7	1104.3	1115.2	1130.1	1145.6
35°	1150.0	1145.3	1133.5	1117.1	1101.6	1090.7	1086.7	1090.7	1101.6	1117.1	1133.5
36°	1138.3	1133.3	1120.7	1103.8	1087.6	1076.0	1072.3	1076.0	1087.6	1103.8	1120.7
37°	1125.8	1120.8	1107.7	1090.1	1073.4	1061.5	1057.4	1061.5	1073.4	1090.1	1107.7
38°	1113.3	1108.0	1094.2	1076.0	1058.6	1046.6	1042.3	1046.6	1058.6	1076.0	1094.2
39°	1100.0	1094.6	1080.2	1061.6	1043.6	1031.0	1026.3	1031.0	1043.6	1061.6	1080.2
40°	1086.6	1080.9	1065.7	1046.5	1028.1	1015.2	1010.5	1015.2	1028.1	1046.5	1065.7
41°	1072.3	1066.6	1051.3	1031.2	1012.4	999.0	994.3	999.0	1012.4	1031.2	1051.3
42°	1057.9	1052.0	1035.9	1015.5	996.2	982.4	977.5	982.4	996.2	1015.5	1035.9
43°	1043.1	1036.9	1020.7	999.4	979.6	965.6	960.7	965.6	979.6	999.4	1020.7
44°	1027.9	1021.4	1004.6	983.1	962.7	948.3	943.0	948.3	962.7	983.1	1004.6



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CANDELA DISTRIBUTION (continued):

	0°	15°	30°	45°	60°	75°	90°	105°	120°	135°	150°
45°	1011.9	1005.5	988.0	966.1	945.4	930.7	925.5	930.7	945.4	966.1	988.0
46°	995.6	989.0	971.1	948.7	927.7	913.0	907.5	913.0	927.7	948.7	971.1
47°	978.7	972.1	953.9	931.1	909.7	894.4	889.1	894.4	909.7	931.1	953.9
48°	961.7	954.9	936.4	913.3	891.4	875.9	870.6	875.9	891.4	913.3	936.4
49°	943.8	936.8	918.2	894.6	872.6	857.1	851.3	857.1	872.6	894.6	918.2
50°	926.0	918.7	899.6	875.8	853.5	837.8	832.3	837.8	853.5	875.8	899.6
51°	907.2	900.0	881.0	856.8	834.2	818.6	813.0	818.6	834.2	856.8	881.0
52°	887.9	880.6	861.5	837.0	814.4	798.7	793.1	798.7	814.4	837.0	861.5
53°	868.5	861.2	841.8	817.3	794.6	778.9	772.9	778.9	794.6	817.3	841.8
54°	848.3	841.0	821.6	796.9	774.4	758.7	753.3	758.7	774.4	796.9	821.6
55°	828.2	820.6	801.2	776.4	753.8	738.1	732.1	738.1	753.8	776.4	801.2
56°	807.2	799.8	780.2	755.6	732.9	717.3	711.7	717.3	732.9	755.6	780.2
57°	786.2	778.5	759.2	734.3	711.8	696.5	690.8	696.5	711.8	734.3	759.2
58°	764.3	756.8	737.4	712.9	690.5	675.1	669.6	675.1	690.5	712.9	737.4
59°	742.1	734.6	715.4	690.9	668.8	653.8	648.3	653.8	668.8	690.9	715.4
60°	719.7	712.0	693.1	668.8	647.2	632.8	628.8	632.8	647.2	668.8	693.1
61°	696.4	689.0	670.1	646.4	625.8	611.5	607.0	611.5	625.8	646.4	670.1
62°	673.2	665.8	647.3	624.1	604.0	590.0	585.4	590.0	604.0	624.1	647.3
63°	649.5	642.2	623.3	602.2	582.1	568.4	563.5	568.4	582.1	602.2	623.3
64°	631.4	618.8	601.3	579.8	559.5	546.1	541.1	546.1	559.5	579.8	601.3
65°	604.7	595.3	578.4	556.3	536.7	523.7	518.9	523.7	536.7	556.3	578.4
66°	578.0	571.2	554.0	532.8	513.9	501.3	496.7	501.3	513.9	532.8	554.0
67°	552.9	546.3	529.7	509.3	490.9	478.7	474.5	478.7	490.9	509.3	529.7
68°	527.3	521.0	505.0	485.5	467.8	456.1	452.0	456.1	467.8	485.5	505.0
69°	501.7	495.5	480.2	461.5	444.5	433.5	429.6	433.5	444.5	461.5	480.2
70°	475.9	470.0	455.4	437.6	421.5	411.0	407.2	411.0	421.5	437.6	455.4
71°	449.6	444.2	430.4	413.4	398.3	388.5	385.0	388.5	398.3	413.4	430.4
72°	423.4	418.3	405.3	389.5	375.4	366.0	362.6	366.0	375.4	389.5	405.3
73°	397.2	392.6	380.1	365.5	352.2	343.6	340.5	343.6	352.2	365.5	380.1
74°	370.9	366.6	355.3	341.6	329.4	321.4	318.6	321.4	329.4	341.6	355.3
75°	344.7	340.7	330.3	317.8	306.6	299.3	296.6	299.3	306.6	317.8	330.3
76°	318.8	315.0	305.7	294.4	284.2	277.5	275.0	277.5	284.2	294.4	305.7
77°	292.6	289.5	281.1	270.9	261.7	255.6	253.3	255.6	261.7	270.9	281.1
78°	267.1	264.0	256.7	247.7	239.6	234.1	232.0	234.1	239.6	247.7	256.7
79°	241.8	239.2	232.8	224.8	217.6	212.8	211.1	212.8	217.6	224.8	232.8
80°	216.4	214.5	209.1	202.2	195.9	191.8	190.2	191.8	195.9	202.2	209.1
81°	191.5	190.0	185.8	180.1	174.8	171.3	170.2	171.3	174.8	180.1	185.8
82°	166.9	165.8	162.8	158.1	153.8	151.4	150.5	151.4	153.8	158.1	162.8
83°	142.6	141.8	139.8	136.4	133.3	131.6	130.8	131.6	133.3	136.4	139.8
84°	118.8	118.6	117.3	115.7	113.8	113.2	112.8	113.2	113.8	115.7	117.3
85°	95.9	96.0	95.5	95.4	95.7	96.3	96.3	96.3	95.7	95.4	95.5
86°	74.1	74.4	74.9	77.0	79.6	80.8	81.3	80.8	79.6	77.0	74.9
87°	53.2	54.1	56.4	60.5	64.5	66.5	67.0	66.5	64.5	60.5	56.4
88°	34.5	35.6	40.5	46.1	49.9	52.6	52.6	52.6	49.9	46.1	40.5
89°	16.6	19.7	25.1	31.0	34.5	37.2	35.3	37.2	34.5	31.0	25.1



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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: P973011
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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: P973011
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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: P973011
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
0°	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9	1337.9
1°	1338.0	1337.4	1338.0	1337.8	1337.9	1337.4	1337.7	1337.3	1337.7	1337.4	1337.9
2°	1337.5	1336.7	1337.5	1337.3	1337.3	1336.8	1337.0	1336.7	1337.0	1336.8	1337.3
3°	1336.8	1336.0	1336.8	1336.5	1336.4	1335.9	1336.2	1335.8	1336.2	1335.9	1336.4
4°	1335.6	1335.2	1335.6	1335.4	1335.1	1334.6	1334.7	1334.3	1334.7	1334.6	1335.1
5°	1334.1	1333.9	1334.1	1333.9	1333.7	1333.0	1332.7	1332.4	1332.7	1333.0	1333.7
6°	1332.6	1332.3	1332.6	1332.1	1331.8	1330.8	1330.5	1330.3	1330.5	1330.8	1331.8
7°	1330.7	1330.5	1330.7	1330.1	1329.4	1328.3	1327.8	1327.2	1327.8	1328.3	1329.4
8°	1328.2	1328.6	1328.2	1327.6	1326.5	1325.5	1324.8	1324.2	1324.8	1325.5	1326.5
9°	1325.8	1325.8	1325.8	1324.8	1324.0	1322.4	1321.3	1320.7	1321.3	1322.4	1324.0
10°	1323.0	1323.6	1323.0	1321.7	1320.3	1319.0	1317.6	1316.7	1317.6	1319.0	1320.3
11°	1320.0	1320.7	1320.0	1318.4	1317.3	1315.8	1314.2	1313.4	1314.2	1315.8	1317.3
12°	1317.8	1318.1	1317.8	1316.2	1314.2	1312.5	1310.6	1310.3	1310.6	1312.5	1314.2
13°	1315.9	1316.0	1315.9	1314.0	1311.5	1309.0	1306.8	1306.5	1306.8	1309.0	1311.5
14°	1313.1	1313.8	1313.1	1310.3	1307.5	1304.7	1302.1	1300.7	1302.1	1304.7	1307.5
15°	1308.4	1309.6	1308.4	1305.6	1302.2	1298.8	1296.3	1294.9	1296.3	1298.8	1302.2
16°	1303.5	1304.9	1303.5	1300.6	1296.7	1292.9	1289.8	1288.2	1289.8	1292.9	1296.7
17°	1298.4	1299.9	1298.4	1295.0	1290.8	1286.4	1283.0	1281.4	1283.0	1286.4	1290.8
18°	1292.9	1294.7	1292.9	1289.2	1284.2	1279.5	1275.7	1273.8	1275.7	1279.5	1284.2
19°	1287.2	1289.0	1287.2	1282.9	1277.5	1272.1	1268.0	1265.9	1268.0	1272.1	1277.5
20°	1281.0	1282.9	1281.0	1276.4	1270.3	1264.4	1259.8	1257.7	1259.8	1264.4	1270.3
21°	1274.4	1276.6	1274.4	1269.3	1262.8	1256.5	1251.6	1249.4	1251.6	1256.5	1262.8
22°	1267.6	1270.1	1267.6	1262.0	1255.1	1247.8	1242.5	1240.3	1242.5	1247.8	1255.1
23°	1260.6	1262.9	1260.6	1254.4	1246.5	1239.0	1233.4	1230.6	1233.4	1239.0	1246.5
24°	1252.9	1255.5	1252.9	1246.4	1237.7	1229.6	1223.5	1220.9	1223.5	1229.6	1237.7
25°	1244.9	1247.5	1244.9	1238.0	1228.9	1220.0	1213.3	1210.3	1213.3	1220.0	1228.9
26°	1236.5	1239.4	1236.5	1229.4	1219.2	1210.0	1202.8	1200.0	1202.8	1210.0	1219.2
27°	1227.9	1231.0	1227.9	1220.4	1209.6	1199.5	1191.8	1188.7	1191.8	1199.5	1209.6
28°	1219.2	1222.0	1219.2	1210.9	1199.3	1188.7	1180.4	1177.7	1180.4	1188.7	1199.3
29°	1209.6	1212.9	1209.6	1201.0	1188.9	1177.2	1168.9	1165.7	1168.9	1177.2	1188.9
30°	1200.0	1203.5	1200.0	1190.7	1177.8	1165.7	1156.8	1153.4	1156.8	1165.7	1177.8
31°	1189.9	1193.5	1189.9	1180.1	1166.5	1153.7	1144.2	1140.9	1144.2	1153.7	1166.5
32°	1179.3	1183.3	1179.3	1169.1	1154.7	1141.2	1131.5	1127.8	1131.5	1141.2	1154.7
33°	1168.4	1172.5	1168.4	1157.5	1142.4	1128.2	1117.9	1114.4	1117.9	1128.2	1142.4
34°	1157.1	1161.5	1157.1	1145.6	1130.1	1115.2	1104.3	1100.7	1104.3	1115.2	1130.1
35°	1145.3	1150.0	1145.3	1133.5	1117.1	1101.6	1090.7	1086.7	1090.7	1101.6	1117.1
36°	1133.3	1138.3	1133.3	1120.7	1103.8	1087.6	1076.0	1072.3	1076.0	1087.6	1103.8
37°	1120.8	1125.8	1120.8	1107.7	1090.1	1073.4	1061.5	1057.4	1061.5	1073.4	1090.1
38°	1108.0	1113.3	1108.0	1094.2	1076.0	1058.6	1046.6	1042.3	1046.6	1058.6	1076.0
39°	1094.6	1100.0	1094.6	1080.2	1061.6	1043.6	1031.0	1026.3	1031.0	1043.6	1061.6
40°	1080.9	1086.6	1080.9	1065.7	1046.5	1028.1	1015.2	1010.5	1015.2	1028.1	1046.5
41°	1066.6	1072.3	1066.6	1051.3	1031.2	1012.4	999.0	994.3	999.0	1012.4	1031.2
42°	1052.0	1057.9	1052.0	1035.9	1015.5	996.2	982.4	977.5	982.4	996.2	1015.5
43°	1036.9	1043.1	1036.9	1020.7	999.4	979.6	965.6	960.7	965.6	979.6	999.4
44°	1021.4	1027.9	1021.4	1004.6	983.1	962.7	948.3	943.0	948.3	962.7	983.1



TEST NUMBER: P973011
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	165°	180°	195°	210°	225°	240°	255°	270°	285°	300°	315°
45°	1005.5	1011.9	1005.5	988.0	966.1	945.4	930.7	925.5	930.7	945.4	966.1
46°	989.0	995.6	989.0	971.1	948.7	927.7	913.0	907.5	913.0	927.7	948.7
47°	972.1	978.7	972.1	953.9	931.1	909.7	894.4	889.1	894.4	909.7	931.1
48°	954.9	961.7	954.9	936.4	913.3	891.4	875.9	870.6	875.9	891.4	913.3
49°	936.8	943.8	936.8	918.2	894.6	872.6	857.1	851.3	857.1	872.6	894.6
50°	918.7	926.0	918.7	899.6	875.8	853.5	837.8	832.3	837.8	853.5	875.8
51°	900.0	907.2	900.0	881.0	856.8	834.2	818.6	813.0	818.6	834.2	856.8
52°	880.6	887.9	880.6	861.5	837.0	814.4	798.7	793.1	798.7	814.4	837.0
53°	861.2	868.5	861.2	841.8	817.3	794.6	778.9	772.9	778.9	794.6	817.3
54°	841.0	848.3	841.0	821.6	796.9	774.4	758.7	753.3	758.7	774.4	796.9
55°	820.6	828.2	820.6	801.2	776.4	753.8	738.1	732.1	738.1	753.8	776.4
56°	799.8	807.2	799.8	780.2	755.6	732.9	717.3	711.7	717.3	732.9	755.6
57°	778.5	786.2	778.5	759.2	734.3	711.8	696.5	690.8	696.5	711.8	734.3
58°	756.8	764.3	756.8	737.4	712.9	690.5	675.1	669.6	675.1	690.5	712.9
59°	734.6	742.1	734.6	715.4	690.9	668.8	653.8	648.3	653.8	668.8	690.9
60°	712.0	719.7	712.0	693.1	668.8	647.2	632.8	628.8	632.8	647.2	668.8
61°	689.0	696.4	689.0	670.1	646.4	625.8	611.5	607.0	611.5	625.8	646.4
62°	665.8	673.2	665.8	647.3	624.1	604.0	590.0	585.4	590.0	604.0	624.1
63°	642.2	649.5	642.2	623.3	602.2	582.1	568.4	563.5	568.4	582.1	602.2
64°	618.8	631.4	618.8	601.3	579.8	559.5	546.1	541.1	546.1	559.5	579.8
65°	595.3	604.7	595.3	578.4	556.3	536.7	523.7	518.9	523.7	536.7	556.3
66°	571.2	578.0	571.2	554.0	532.8	513.9	501.3	496.7	501.3	513.9	532.8
67°	546.3	552.9	546.3	529.7	509.3	490.9	478.7	474.5	478.7	490.9	509.3
68°	521.0	527.3	521.0	505.0	485.5	467.8	456.1	452.0	456.1	467.8	485.5
69°	495.5	501.7	495.5	480.2	461.5	444.5	433.5	429.6	433.5	444.5	461.5
70°	470.0	475.9	470.0	455.4	437.6	421.5	411.0	407.2	411.0	421.5	437.6
71°	444.2	449.6	444.2	430.4	413.4	398.3	388.5	385.0	388.5	398.3	413.4
72°	418.3	423.4	418.3	405.3	389.5	375.4	366.0	362.6	366.0	375.4	389.5
73°	392.6	397.2	392.6	380.1	365.5	352.2	343.6	340.5	343.6	352.2	365.5
74°	366.6	370.9	366.6	355.3	341.6	329.4	321.4	318.6	321.4	329.4	341.6
75°	340.7	344.7	340.7	330.3	317.8	306.6	299.3	296.6	299.3	306.6	317.8
76°	315.0	318.8	315.0	305.7	294.4	284.2	277.5	275.0	277.5	284.2	294.4
77°	289.5	292.6	289.5	281.1	270.9	261.7	255.6	253.3	255.6	261.7	270.9
78°	264.0	267.1	264.0	256.7	247.7	239.6	234.1	232.0	234.1	239.6	247.7
79°	239.2	241.8	239.2	232.8	224.8	217.6	212.8	211.1	212.8	217.6	224.8
80°	214.5	216.4	214.5	209.1	202.2	195.9	191.8	190.2	191.8	195.9	202.2
81°	190.0	191.5	190.0	185.8	180.1	174.8	171.3	170.2	171.3	174.8	180.1
82°	165.8	166.9	165.8	162.8	158.1	153.8	151.4	150.5	151.4	153.8	158.1
83°	141.8	142.6	141.8	139.8	136.4	133.3	131.6	130.8	131.6	133.3	136.4
84°	118.6	118.8	118.6	117.3	115.7	113.8	113.2	112.8	113.2	113.8	115.7
85°	96.0	95.9	96.0	95.5	95.4	95.7	96.3	96.3	96.3	95.7	95.4
86°	74.4	74.1	74.4	74.9	77.0	79.6	80.8	81.3	80.8	79.6	77.0
87°	54.1	53.2	54.1	56.4	60.5	64.5	66.5	67.0	66.5	64.5	60.5
88°	35.6	34.5	35.6	40.5	46.1	49.9	52.6	52.6	52.6	49.9	46.1
89°	19.7	16.6	19.7	25.1	31.0	34.5	37.2	35.3	37.2	34.5	31.0



TEST NUMBER: P973011
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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: P973011
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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: P973011
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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: P973011
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
0°	1337.9	1337.9	1337.9
1°	1337.8	1338.0	1337.4
2°	1337.3	1337.5	1336.7
3°	1336.5	1336.8	1336.0
4°	1335.4	1335.6	1335.2
5°	1333.9	1334.1	1333.9
6°	1332.1	1332.6	1332.3
7°	1330.1	1330.7	1330.5
8°	1327.6	1328.2	1328.6
9°	1324.8	1325.8	1325.8
10°	1321.7	1323.0	1323.6
11°	1318.4	1320.0	1320.7
12°	1316.2	1317.8	1318.1
13°	1314.0	1315.9	1316.0
14°	1310.3	1313.1	1313.8
15°	1305.6	1308.4	1309.6
16°	1300.6	1303.5	1304.9
17°	1295.0	1298.4	1299.9
18°	1289.2	1292.9	1294.7
19°	1282.9	1287.2	1289.0
20°	1276.4	1281.0	1282.9
21°	1269.3	1274.4	1276.6
22°	1262.0	1267.6	1270.1
23°	1254.4	1260.6	1262.9
24°	1246.4	1252.9	1255.5
25°	1238.0	1244.9	1247.5
26°	1229.4	1236.5	1239.4
27°	1220.4	1227.9	1231.0
28°	1210.9	1219.2	1222.0
29°	1201.0	1209.6	1212.9
30°	1190.7	1200.0	1203.5
31°	1180.1	1189.9	1193.5
32°	1169.1	1179.3	1183.3
33°	1157.5	1168.4	1172.5
34°	1145.6	1157.1	1161.5
35°	1133.5	1145.3	1150.0
36°	1120.7	1133.3	1138.3
37°	1107.7	1120.8	1125.8
38°	1094.2	1108.0	1113.3
39°	1080.2	1094.6	1100.0
40°	1065.7	1080.9	1086.6
41°	1051.3	1066.6	1072.3
42°	1035.9	1052.0	1057.9
43°	1020.7	1036.9	1043.1
44°	1004.6	1021.4	1027.9



TEST NUMBER: P973011
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
45°	988.0	1005.5	1011.9
46°	971.1	989.0	995.6
47°	953.9	972.1	978.7
48°	936.4	954.9	961.7
49°	918.2	936.8	943.8
50°	899.6	918.7	926.0
51°	881.0	900.0	907.2
52°	861.5	880.6	887.9
53°	841.8	861.2	868.5
54°	821.6	841.0	848.3
55°	801.2	820.6	828.2
56°	780.2	799.8	807.2
57°	759.2	778.5	786.2
58°	737.4	756.8	764.3
59°	715.4	734.6	742.1
60°	693.1	712.0	719.7
61°	670.1	689.0	696.4
62°	647.3	665.8	673.2
63°	623.3	642.2	649.5
64°	601.3	618.8	631.4
65°	578.4	595.3	604.7
66°	554.0	571.2	578.0
67°	529.7	546.3	552.9
68°	505.0	521.0	527.3
69°	480.2	495.5	501.7
70°	455.4	470.0	475.9
71°	430.4	444.2	449.6
72°	405.3	418.3	423.4
73°	380.1	392.6	397.2
74°	355.3	366.6	370.9
75°	330.3	340.7	344.7
76°	305.7	315.0	318.8
77°	281.1	289.5	292.6
78°	256.7	264.0	267.1
79°	232.8	239.2	241.8
80°	209.1	214.5	216.4
81°	185.8	190.0	191.5
82°	162.8	165.8	166.9
83°	139.8	141.8	142.6
84°	117.3	118.6	118.8
85°	95.5	96.0	95.9
86°	74.9	74.4	74.1
87°	56.4	54.1	53.2
88°	40.5	35.6	34.5
89°	25.1	19.7	16.6



TEST NUMBER: P973011
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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: P973011
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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: P973011
CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

CANDELA DISTRIBUTION (continued):

	330°	345°	360°
180°	0.0	0.0	0.0



TEST NUMBER: P973011
 CATALOG NUMBER: 14CGRK-L3C3-UNV-MP4-HI-4000K

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	17.89	19.57	18.26	19.89	20.20	17.18	18.86	17.55	19.18	19.49
	3H	19.92	21.45	20.30	21.77	22.13	19.10	20.62	19.47	20.95	21.31
	4H	20.71	22.15	21.10	22.49	22.87	19.85	21.29	20.25	21.64	22.01
	6H	21.31	22.65	21.72	23.02	23.41	20.45	21.79	20.86	22.15	22.54
	8H	21.52	22.80	21.94	23.19	23.59	20.66	21.94	21.09	22.33	22.73
	12H	21.62	22.85	22.05	23.23	23.66	20.78	22.01	21.21	22.39	22.82
4H	2H	18.50	19.94	18.90	20.29	20.66	17.95	19.39	18.34	19.73	20.11
	3H	20.76	21.97	21.17	22.37	22.77	20.08	21.29	20.48	21.69	22.09
	4H	21.69	22.79	22.12	23.20	23.63	20.96	22.06	21.39	22.47	22.91
	6H	22.44	23.41	22.89	23.85	24.30	21.69	22.66	22.14	23.10	23.55
	8H	22.71	23.61	23.17	24.05	24.52	21.96	22.87	22.42	23.31	23.77
	12H	22.88	23.69	23.35	24.17	24.63	22.16	22.97	22.63	23.45	23.92
8H	4H	22.00	22.91	22.46	23.35	23.82	21.37	22.28	21.83	22.72	23.18
	6H	22.90	23.66	23.39	24.14	24.61	22.24	23.00	22.73	23.49	23.96
	8H	23.25	23.93	23.76	24.44	24.92	22.60	23.28	23.11	23.79	24.27
	12H	23.51	24.12	24.02	24.61	25.16	22.90	23.50	23.40	23.99	24.55
12H	4H	22.04	22.86	22.52	23.34	23.80	21.43	22.25	21.91	22.72	23.19
	6H	22.96	23.65	23.47	24.15	24.63	22.34	23.02	22.84	23.52	24.01
	8H	23.38	23.98	23.89	24.47	25.03	22.76	23.37	23.27	23.86	24.41