

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: CORELITE

Report Number: P935068

Luminaire Tested: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935068
REPORT IS A COMBINATION OF REPORTS P933740 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

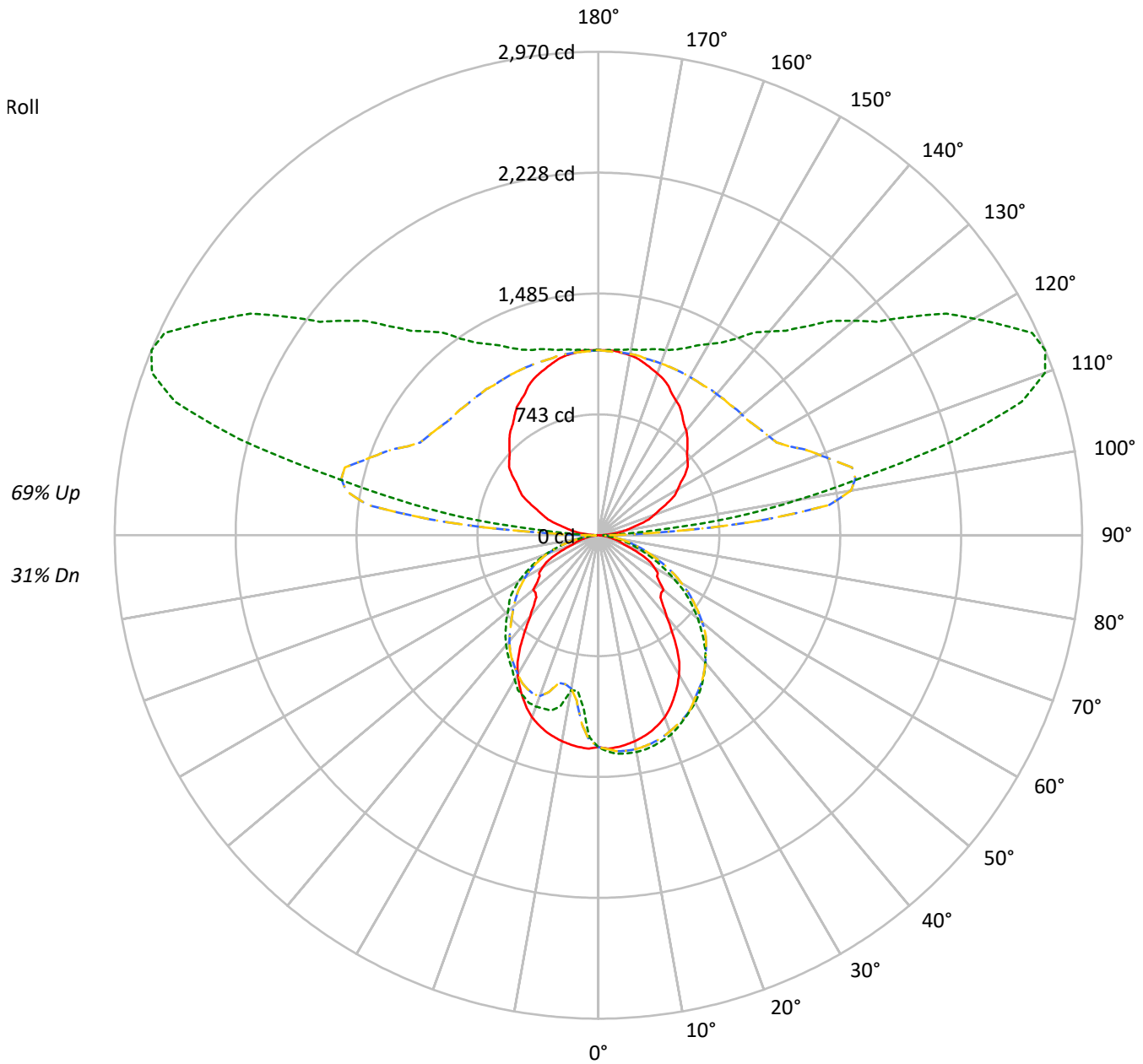
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10751.7 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 82.4
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				
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6037	6037	6037	6037
5°	6082	6093	6082	4791
10°	6041	6003	6041	4291
15°	5975	5872	5975	4904
20°	5850	5718	5850	4914
25°	5594	5494	5594	4810
30°	5264	5307	5264	4581
35°	4692	5071	4692	4330
40°	3910	4793	3910	4140
45°	3494	4468	3494	3922
50°	3712	4081	3712	3703
55°	3492	3663	3492	3575
60°	3600	3111	3600	3275
65°	3263	2572	3263	2875
70°	2260	2049	2260	2409
75°	1982	1515	1982	1814
80°	1597	1002	1597	1090
85°	918	531	918	450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.1
10°-20°	333.5	3.1
20°-30°	515.5	4.8
30°-40°	615.4	5.7
40°-50°	619.0	5.8
50°-60°	538.6	5.0
60°-70°	381.9	3.6
70°-80°	202.0	1.9
80°-90°	54.6	0.5
90°-100°	554.5	5.2
100°-110°	1457.7	13.6
110°-120°	1511.5	14.1
120°-130°	1212.4	11.3
130°-140°	951.3	8.8
140°-150°	730.2	6.8
150°-160°	525.8	4.9
160°-170°	321.7	3.0
170°-180°	108.7	1.0
0°-30°	966.4	9.0
0°-40°	1581.7	14.7
0°-60°	2739.3	25.5
0°-90°	3377.8	31.4
90°-120°	3523.7	32.8
90°-150°	6417.7	59.7
90°-180°	7374.0	68.6
0°-180°	10751.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1301	1301	1301	1301	1301	
5°	1307	1348	1307	1060	1307	124
15°	1248	1336	1248	1115	1248	351
25°	1099	1246	1099	1091	1099	505
35°	836	1112	836	949	836	517
45°	539	916	539	804	539	432
55°	439	676	439	660	439	404
65°	305	408	305	456	305	292
75°	116	193	116	231	116	122
85°	20	49	20	42	20	27
90°	8	29	8	29	8	7
95°	73	335	73	335	73	81
105°	263	2283	263	2283	263	278
115°	466	2939	466	2939	466	461
125°	649	2341	649	2341	649	576
135°	773	1816	773	1816	773	598
145°	897	1473	897	1473	897	562
155°	1014	1269	1014	1269	1014	466
165°	1094	1182	1094	1182	1094	309
175°	1138	1145	1138	1145	1138	108
180°	1138	1138	1138	1138	1138	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1312.1	1312.1	1319.6	1322.0	1322.0	1318.3	1314.6	1318.3	1329.4	1333.0	1331.9
5°	1307.3	1317.1	1330.7	1333.0	1335.5	1334.3	1331.9	1334.3	1346.6	1349.1	1350.3
7.5°	1297.3	1315.9	1333.0	1336.8	1340.5	1336.8	1335.5	1338.0	1350.3	1352.8	1352.8
10°	1285.0	1310.9	1330.7	1333.0	1336.8	1333.0	1333.0	1338.0	1350.3	1352.8	1354.0
12.5°	1267.8	1303.5	1322.0	1324.4	1329.4	1328.2	1326.9	1331.9	1344.1	1346.6	1346.6
15°	1248.2	1290.0	1307.3	1309.6	1318.3	1315.9	1315.9	1320.7	1334.3	1338.0	1336.8
17.5°	1221.1	1272.8	1292.5	1296.2	1302.3	1301.1	1302.3	1307.3	1319.6	1322.0	1323.2
20°	1190.3	1249.3	1272.8	1276.4	1282.6	1282.6	1282.6	1288.7	1301.1	1306.0	1306.0
22.5°	1148.4	1224.8	1249.3	1251.8	1259.3	1259.3	1261.6	1270.3	1281.4	1282.6	1282.6
25°	1099.2	1197.7	1218.6	1225.9	1233.4	1237.1	1240.7	1245.7	1249.3	1248.2	1249.3
27.5°	1047.5	1163.2	1190.3	1195.2	1205.0	1208.8	1213.7	1214.9	1216.1	1219.8	1217.4
30°	989.6	1115.2	1155.8	1160.8	1176.8	1179.2	1174.3	1176.8	1182.9	1185.4	1187.9
32.5°	924.4	1043.8	1120.1	1131.2	1146.0	1138.6	1137.4	1141.1	1150.9	1150.9	1153.4
35°	835.7	988.4	1086.9	1096.7	1107.8	1099.2	1104.2	1105.4	1111.5	1115.2	1114.0
37.5°	738.6	940.5	1052.4	1059.8	1068.5	1057.4	1064.7	1068.5	1073.3	1070.9	1070.9
40°	652.4	865.3	1011.9	1016.7	1024.1	1015.5	1022.9	1025.3	1027.8	1025.3	1024.1
42.5°	588.3	782.9	968.7	974.9	969.9	976.2	978.5	983.5	979.8	974.9	974.9
45°	539.1	760.7	921.9	929.3	921.9	931.8	935.5	935.5	924.4	921.9	920.7
47.5°	523.2	716.4	875.2	875.2	871.4	883.8	890.0	881.4	870.3	866.6	866.6
50°	521.9	667.2	811.2	806.3	823.4	838.2	832.1	823.4	814.8	801.3	801.3
52.5°	473.9	606.9	728.7	747.2	774.3	782.9	773.0	764.4	749.7	743.4	738.6
55°	439.4	544.1	653.6	690.6	718.8	729.9	711.5	702.9	680.7	677.0	674.5
57.5°	432.1	453.0	584.7	631.5	665.9	664.7	653.6	637.6	619.2	615.5	614.2
60°	396.4	327.4	510.8	566.2	601.9	598.2	588.3	573.6	556.4	553.9	551.4
62.5°	359.5	237.6	427.1	489.9	540.3	539.1	530.5	508.4	496.0	489.9	485.0
65°	305.2	199.4	304.0	407.5	480.0	482.5	464.1	448.0	434.5	427.1	425.9
67.5°	232.6	162.5	205.6	339.7	422.2	419.8	396.4	389.0	371.8	368.1	360.7
70°	172.3	108.3	142.8	275.8	365.6	359.5	340.9	332.4	316.3	307.7	302.8
72.5°	142.8	87.4	104.6	214.2	307.7	300.4	284.3	274.5	261.0	253.6	248.6
75°	115.7	92.3	80.0	158.8	249.9	244.9	230.2	220.3	209.2	199.4	200.6
77.5°	85.0	86.2	64.0	116.9	198.2	190.8	182.2	169.9	164.9	155.1	155.1
80°	64.0	67.7	48.0	80.0	142.8	142.8	135.4	126.8	118.2	113.2	113.2
82.5°	43.0	43.0	35.7	50.5	97.3	93.5	88.6	86.2	81.2	78.7	78.7
85°	19.7	24.6	22.1	30.7	53.0	55.4	55.4	53.0	51.7	49.3	50.5
87.5°	6.1	11.1	13.6	17.3	27.1	28.4	29.5	29.5	29.5	30.7	30.7
90°	7.6	13.8	19.8	21.4	33.6	49.8	58.0	51.6	38.6	29.0	29.0
92.5°	30.6	82.5	134.4	147.4	207.1	286.9	326.7	286.3	205.7	145.1	139.3
95°	73.3	168.3	263.3	287.1	509.7	806.6	955.0	852.3	646.6	492.4	475.0
97.5°	126.7	210.5	294.4	315.3	686.6	1181.6	1429.1	1364.2	1234.2	1136.7	1103.5
100°	167.9	243.9	320.0	339.0	750.9	1300.3	1574.9	1579.7	1589.2	1596.3	1556.7
102.5°	203.1	273.9	344.9	362.6	780.4	1337.5	1616.2	1698.9	1864.6	1988.7	1954.8
105°	262.6	322.7	382.7	397.7	802.3	1341.9	1611.6	1797.1	2168.3	2446.8	2428.5
107.5°	323.7	379.7	435.6	449.7	806.5	1282.1	1520.0	1778.9	2296.6	2684.9	2689.3
110°	364.9	415.4	466.0	478.7	800.3	1229.2	1443.6	1733.1	2311.9	2746.0	2765.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	405.3	453.5	501.8	513.8	800.6	1183.0	1374.2	1670.4	2262.8	2707.1	2736.3
115°	466.5	510.9	555.4	566.5	807.9	1130.0	1290.9	1576.3	2147.0	2575.1	2615.5
117.5°	526.8	567.1	607.5	617.6	823.0	1096.7	1233.7	1491.2	2006.3	2392.5	2437.4
120°	561.9	599.9	637.9	647.3	835.2	1085.6	1210.8	1446.1	1916.7	2269.6	2313.2
122.5°	596.2	634.6	672.9	682.5	852.7	1079.7	1193.2	1405.1	1828.9	2146.8	2189.8
125°	648.9	683.9	718.8	727.5	876.4	1074.9	1174.1	1354.2	1714.2	1984.1	2023.8
127.5°	691.7	726.9	762.2	771.0	900.1	1072.1	1158.1	1312.7	1621.8	1853.6	1887.0
130°	714.5	752.5	790.5	800.0	917.3	1073.8	1152.0	1289.5	1564.8	1771.2	1802.0
132.5°	738.2	776.2	814.2	823.7	931.4	1074.9	1146.7	1269.8	1516.1	1700.9	1728.5
135°	773.3	807.9	842.6	851.3	946.7	1073.9	1137.5	1240.6	1446.9	1601.7	1625.5
137.5°	809.2	843.5	877.8	886.3	969.5	1080.5	1135.9	1223.1	1397.6	1528.3	1547.9
140°	839.0	870.5	902.1	910.0	983.5	1081.6	1130.6	1205.9	1356.6	1469.6	1487.9
142.5°	861.9	891.1	920.3	927.5	995.2	1085.4	1130.6	1196.8	1329.1	1428.4	1444.1
145°	897.0	922.5	948.0	954.3	1010.6	1085.5	1123.0	1177.1	1285.3	1366.5	1378.4
147.5°	932.1	956.9	981.7	987.9	1033.0	1093.0	1123.0	1165.6	1250.7	1314.6	1324.4
150°	955.0	977.4	999.8	1005.4	1044.6	1096.8	1123.0	1159.0	1230.9	1284.9	1292.8
152.5°	978.7	995.7	1012.7	1016.9	1052.2	1099.4	1123.0	1153.7	1215.1	1261.2	1267.2
155°	1013.8	1026.4	1038.9	1042.0	1069.0	1105.0	1123.0	1147.4	1196.3	1232.9	1236.9
157.5°	1039.7	1052.0	1064.3	1067.3	1085.8	1110.6	1123.0	1142.0	1180.0	1208.5	1211.3
160°	1057.4	1066.9	1076.4	1078.8	1093.5	1113.2	1123.0	1139.3	1171.9	1196.3	1198.0
162.5°	1074.9	1082.1	1089.2	1091.0	1101.6	1115.8	1123.0	1136.7	1164.2	1184.8	1186.4
165°	1094.0	1100.4	1106.8	1108.5	1113.3	1119.8	1123.0	1132.8	1152.5	1167.3	1169.0
167.5°	1111.5	1114.5	1117.7	1118.4	1122.4	1127.8	1130.6	1137.0	1150.0	1159.6	1160.2
170°	1123.0	1126.0	1129.1	1129.9	1130.1	1130.4	1130.6	1137.0	1150.0	1159.6	1159.6
172.5°	1129.1	1129.8	1130.4	1130.6	1130.6	1130.6	1130.6	1135.7	1145.9	1153.5	1153.0
175°	1137.5	1137.5	1137.5	1137.5	1135.2	1132.2	1130.6	1133.8	1140.2	1145.1	1145.1
177.5°	1137.5	1137.5	1137.5	1137.5	1135.7	1133.4	1132.2	1134.7	1139.8	1143.6	1143.0
180°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1334.3	1330.7	1334.3	1331.9	1333.0	1329.4	1318.3	1314.6	1318.3	1322.0	1322.0
5°	1350.3	1347.8	1350.3	1350.3	1349.1	1346.6	1334.3	1331.9	1334.3	1335.5	1333.0
7.5°	1355.3	1351.6	1355.3	1352.8	1352.8	1350.3	1338.0	1335.5	1336.8	1340.5	1336.8
10°	1355.3	1351.6	1355.3	1354.0	1352.8	1350.3	1338.0	1333.0	1333.0	1336.8	1333.0
12.5°	1349.1	1346.6	1349.1	1346.6	1346.6	1344.1	1331.9	1326.9	1328.2	1329.4	1324.4
15°	1339.2	1335.5	1339.2	1336.8	1338.0	1334.3	1320.7	1315.9	1315.9	1318.3	1309.6
17.5°	1324.4	1319.6	1324.4	1323.2	1322.0	1319.6	1307.3	1302.3	1301.1	1302.3	1296.2
20°	1307.3	1303.5	1307.3	1306.0	1306.0	1301.1	1288.7	1282.6	1282.6	1282.6	1276.4
22.5°	1280.2	1276.4	1280.2	1282.6	1282.6	1281.4	1270.3	1261.6	1259.3	1259.3	1251.8
25°	1249.3	1245.7	1249.3	1249.3	1248.2	1249.3	1245.7	1240.7	1237.1	1233.4	1225.9
27.5°	1219.8	1217.4	1219.8	1217.4	1219.8	1216.1	1214.9	1213.7	1208.8	1205.0	1195.2
30°	1190.3	1187.9	1190.3	1187.9	1185.4	1182.9	1176.8	1174.3	1179.2	1176.8	1160.8
32.5°	1153.4	1150.9	1153.4	1153.4	1150.9	1150.9	1141.1	1137.4	1138.6	1146.0	1131.2
35°	1115.2	1111.5	1115.2	1114.0	1115.2	1111.5	1105.4	1104.2	1099.2	1107.8	1096.7
37.5°	1070.9	1067.2	1070.9	1070.9	1070.9	1073.3	1068.5	1064.7	1057.4	1068.5	1059.8
40°	1025.3	1020.4	1025.3	1024.1	1025.3	1027.8	1025.3	1022.9	1015.5	1024.1	1016.7
42.5°	973.7	972.4	973.7	974.9	974.9	979.8	983.5	978.5	976.2	969.9	974.9
45°	918.2	915.8	918.2	920.7	921.9	924.4	935.5	935.5	931.8	921.9	929.3
47.5°	859.1	853.0	859.1	866.6	866.6	870.3	881.4	890.0	883.8	871.4	875.2
50°	796.4	797.7	796.4	801.3	801.3	814.8	823.4	832.1	838.2	823.4	806.3
52.5°	734.9	733.6	734.9	738.6	743.4	749.7	764.4	773.0	782.9	774.3	747.2
55°	673.3	675.8	673.3	674.5	677.0	680.7	702.9	711.5	729.9	718.8	690.6
57.5°	611.7	608.1	611.7	614.2	615.5	619.2	637.6	653.6	664.7	665.9	631.5
60°	540.3	535.5	540.3	551.4	553.9	556.4	573.6	588.3	598.2	601.9	566.2
62.5°	477.6	468.9	477.6	485.0	489.9	496.0	508.4	530.5	539.1	540.3	489.9
65°	411.1	407.5	411.1	425.9	427.1	434.5	448.0	464.1	482.5	480.0	407.5
67.5°	350.8	350.8	350.8	360.7	368.1	371.8	389.0	396.4	419.8	422.2	339.7
70°	295.4	294.2	295.4	302.8	307.7	316.3	332.4	340.9	359.5	365.6	275.8
72.5°	242.5	241.3	242.5	248.6	253.6	261.0	274.5	284.3	300.4	307.7	214.2
75°	195.7	193.3	195.7	200.6	199.4	209.2	220.3	230.2	244.9	249.9	158.8
77.5°	150.1	150.1	150.1	155.1	155.1	164.9	169.9	182.2	190.8	198.2	116.9
80°	112.1	110.8	112.1	113.2	113.2	118.2	126.8	135.4	142.8	142.8	80.0
82.5°	78.7	76.4	78.7	78.7	78.7	81.2	86.2	88.6	93.5	97.3	50.5
85°	49.3	49.3	49.3	50.5	49.3	51.7	53.0	55.4	55.4	53.0	30.7
87.5°	32.0	30.7	32.0	30.7	30.7	29.5	29.5	29.5	28.4	27.1	17.3
90°	29.0	29.0	29.0	29.0	29.0	38.6	51.6	58.0	49.8	33.6	21.4
92.5°	116.3	93.1	116.3	139.3	145.1	205.7	286.3	326.7	286.9	207.1	147.4
95°	405.1	335.1	405.1	475.0	492.4	646.6	852.3	955.0	806.6	509.7	287.1
97.5°	970.5	837.5	970.5	1103.5	1136.7	1234.2	1364.2	1429.1	1181.6	686.6	315.3
100°	1398.3	1239.8	1398.3	1556.7	1596.3	1589.2	1579.7	1574.9	1300.3	750.9	339.0
102.5°	1819.1	1683.3	1819.1	1954.8	1988.7	1864.6	1698.9	1616.2	1337.5	780.4	362.6
105°	2355.5	2282.6	2355.5	2428.5	2446.8	2168.3	1797.1	1611.6	1341.9	802.3	397.7
107.5°	2707.0	2724.6	2707.0	2689.3	2684.9	2296.6	1778.9	1520.0	1282.1	806.5	449.7
110°	2841.0	2917.0	2841.0	2765.0	2746.0	2311.9	1733.1	1443.6	1229.2	800.3	478.7



TEST NUMBER: P935068

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2852.9	2969.7	2852.9	2736.3	2707.1	2262.8	1670.4	1374.2	1183.0	800.6	513.8
115°	2777.3	2939.2	2777.3	2615.5	2575.1	2147.0	1576.3	1290.9	1130.0	807.9	566.5
117.5°	2616.9	2796.4	2616.9	2437.4	2392.5	2006.3	1491.2	1233.7	1096.7	823.0	617.6
120°	2487.7	2662.0	2487.7	2313.2	2269.6	1916.7	1446.1	1210.8	1085.6	835.2	647.3
122.5°	2361.8	2533.8	2361.8	2189.8	2146.8	1828.9	1405.1	1193.2	1079.7	852.7	682.5
125°	2182.2	2340.7	2182.2	2023.8	1984.1	1714.2	1354.2	1174.1	1074.9	876.4	727.5
127.5°	2020.7	2154.4	2020.7	1887.0	1853.6	1621.8	1312.7	1158.1	1072.1	900.1	771.0
130°	1925.5	2049.0	1925.5	1802.0	1771.2	1564.8	1289.5	1152.0	1073.8	917.3	800.0
132.5°	1839.2	1949.7	1839.2	1728.5	1700.9	1516.1	1269.8	1146.7	1074.9	931.4	823.7
135°	1720.9	1816.2	1720.9	1625.5	1601.7	1446.9	1240.6	1137.5	1073.9	946.7	851.3
137.5°	1625.9	1704.0	1625.9	1547.9	1528.3	1397.6	1223.1	1135.9	1080.5	969.5	886.3
140°	1560.7	1633.7	1560.7	1487.9	1469.6	1356.6	1205.9	1130.6	1081.6	983.5	910.0
142.5°	1506.9	1569.6	1506.9	1444.1	1428.4	1329.1	1196.8	1130.6	1085.4	995.2	927.5
145°	1425.9	1473.4	1425.9	1378.4	1366.5	1285.3	1177.1	1123.0	1085.5	1010.6	954.3
147.5°	1363.8	1403.2	1363.8	1324.4	1314.6	1250.7	1165.6	1123.0	1093.0	1033.0	987.9
150°	1324.7	1356.6	1324.7	1292.8	1284.9	1230.9	1159.0	1123.0	1096.8	1044.6	1005.4
152.5°	1291.3	1315.3	1291.3	1267.2	1261.2	1215.1	1153.7	1123.0	1099.4	1052.2	1016.9
155°	1252.8	1268.8	1252.8	1236.9	1232.9	1196.3	1147.4	1123.0	1105.0	1069.0	1042.0
157.5°	1222.5	1233.7	1222.5	1211.3	1208.5	1180.0	1142.0	1123.0	1110.6	1085.8	1067.3
160°	1204.4	1210.8	1204.4	1198.0	1196.3	1171.9	1139.3	1123.0	1113.2	1093.5	1078.8
162.5°	1192.5	1198.6	1192.5	1186.4	1184.8	1164.2	1136.7	1123.0	1115.8	1101.6	1091.0
165°	1175.4	1181.8	1175.4	1169.0	1167.3	1152.5	1132.8	1123.0	1119.8	1113.3	1108.5
167.5°	1163.0	1165.7	1163.0	1160.2	1159.6	1150.0	1137.0	1130.6	1127.8	1122.4	1118.4
170°	1159.6	1159.6	1159.6	1159.6	1159.6	1150.0	1137.0	1130.6	1130.4	1130.1	1129.9
172.5°	1150.6	1148.2	1150.6	1153.0	1153.5	1145.9	1135.7	1130.6	1130.6	1130.6	1130.6
175°	1145.1	1145.1	1145.1	1145.1	1145.1	1140.2	1133.8	1130.6	1132.2	1135.2	1137.5
177.5°	1140.2	1137.5	1140.2	1143.0	1143.6	1139.8	1134.7	1132.2	1133.4	1135.7	1137.5
180°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5



TEST NUMBER: P935068

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1319.6	1312.1	1312.1	1299.8	1295.0	1291.2	1285.0	1266.6	1261.6	1256.8	1264.1
5°	1330.7	1317.1	1307.3	1285.0	1266.6	1259.3	1235.9	1191.5	1162.0	1139.8	1127.5
7.5°	1333.0	1315.9	1297.3	1262.9	1218.6	1198.9	1127.5	1046.3	1024.1	1004.4	992.1
10°	1330.7	1310.9	1285.0	1233.4	1128.8	1094.3	1022.9	969.9	956.4	952.8	956.4
12.5°	1322.0	1303.5	1267.8	1181.7	1035.2	1011.9	969.9	939.2	936.7	942.8	976.2
15°	1307.3	1290.0	1248.2	1112.7	983.5	966.2	936.7	925.7	939.2	982.3	1082.0
17.5°	1292.5	1272.8	1221.1	1045.1	944.1	931.8	910.9	933.0	1009.4	1067.2	1100.4
20°	1272.8	1249.3	1190.3	995.8	915.8	904.8	894.8	994.6	1052.4	1073.3	1091.8
22.5°	1249.3	1224.8	1148.4	961.4	886.2	877.7	883.8	1029.0	1052.4	1067.2	1083.2
25°	1218.6	1197.7	1099.2	934.3	862.9	853.0	876.4	1025.3	1038.9	1042.6	1074.6
27.5°	1190.3	1163.2	1047.5	909.6	834.6	830.9	882.5	1009.4	1019.2	1022.9	1057.4
30°	1155.8	1115.2	989.6	883.8	805.0	803.8	883.8	989.6	987.2	997.1	1031.5
32.5°	1120.1	1043.8	924.4	851.8	776.7	775.5	875.2	960.1	957.6	971.2	997.1
35°	1086.9	988.4	835.7	814.8	741.0	742.2	854.3	925.7	926.9	939.2	955.2
37.5°	1052.4	940.5	738.6	774.3	706.5	706.5	825.9	893.7	891.2	894.8	917.1
40°	1011.9	865.3	652.4	721.3	674.5	670.8	791.5	859.1	850.5	849.3	880.1
42.5°	968.7	782.9	588.3	651.2	637.6	632.7	749.7	817.3	801.3	805.0	844.4
45°	921.9	760.7	539.1	550.2	599.4	595.8	704.1	769.3	758.2	768.1	808.7
47.5°	875.2	716.4	523.2	456.6	558.9	557.6	653.6	722.5	716.4	726.3	769.3
50°	811.2	667.2	521.9	391.4	513.3	518.2	593.3	677.0	677.0	685.6	731.1
52.5°	728.7	606.9	473.9	354.5	460.3	475.1	540.3	637.6	640.1	648.7	689.3
55°	653.6	544.1	439.4	326.1	397.5	429.6	488.7	597.0	601.9	610.5	647.4
57.5°	584.7	453.0	432.1	292.9	339.7	370.5	443.2	557.6	560.1	567.4	603.1
60°	510.8	327.4	396.4	257.2	289.3	312.7	401.3	510.8	519.4	524.4	555.1
62.5°	427.1	237.6	359.5	232.6	264.7	269.5	366.8	466.6	477.6	481.3	499.8
65°	304.0	199.4	305.2	211.7	238.8	240.1	329.9	420.9	430.9	437.0	450.5
67.5°	205.6	162.5	232.6	192.0	219.1	220.3	294.2	368.1	381.6	386.5	395.2
70°	142.8	108.3	172.3	171.1	196.9	199.4	256.0	320.0	332.4	336.1	340.9
72.5°	104.6	87.4	142.8	153.9	173.5	176.0	216.7	265.9	278.2	281.9	284.3
75°	80.0	92.3	115.7	134.2	147.7	148.9	177.2	216.7	225.3	227.7	229.0
77.5°	64.0	86.2	85.0	108.3	120.6	118.2	139.1	167.4	174.8	174.8	174.8
80°	48.0	67.7	64.0	77.5	88.6	86.2	99.7	119.4	121.9	124.3	123.1
82.5°	35.7	43.0	43.0	49.3	59.1	56.6	66.4	77.5	77.5	77.5	80.0
85°	22.1	24.6	19.7	25.9	33.2	32.0	36.9	41.8	43.0	43.0	40.7
87.5°	13.6	11.1	6.1	9.8	14.8	14.8	17.3	18.4	17.3	17.3	17.3
90°	19.8	13.8	7.6	13.8	19.8	21.4	33.6	49.8	58.0	51.6	38.6
92.5°	134.4	82.5	30.6	82.5	134.4	147.4	207.1	286.9	326.7	286.3	205.7
95°	263.3	168.3	73.3	168.3	263.3	287.1	509.7	806.6	955.0	852.3	646.6
97.5°	294.4	210.5	126.7	210.5	294.4	315.3	686.6	1181.6	1429.1	1364.2	1234.2
100°	320.0	243.9	167.9	243.9	320.0	339.0	750.9	1300.3	1574.9	1579.7	1589.2
102.5°	344.9	273.9	203.1	273.9	344.9	362.6	780.4	1337.5	1616.2	1698.9	1864.6
105°	382.7	322.7	262.6	322.7	382.7	397.7	802.3	1341.9	1611.6	1797.1	2168.3
107.5°	435.6	379.7	323.7	379.7	435.6	449.7	806.5	1282.1	1520.0	1778.9	2296.6
110°	466.0	415.4	364.9	415.4	466.0	478.7	800.3	1229.2	1443.6	1733.1	2311.9



TEST NUMBER: P935068

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	501.8	453.5	405.3	453.5	501.8	513.8	800.6	1183.0	1374.2	1670.4	2262.8
115°	555.4	510.9	466.5	510.9	555.4	566.5	807.9	1130.0	1290.9	1576.3	2147.0
117.5°	607.5	567.1	526.8	567.1	607.5	617.6	823.0	1096.7	1233.7	1491.2	2006.3
120°	637.9	599.9	561.9	599.9	637.9	647.3	835.2	1085.6	1210.8	1446.1	1916.7
122.5°	672.9	634.6	596.2	634.6	672.9	682.5	852.7	1079.7	1193.2	1405.1	1828.9
125°	718.8	683.9	648.9	683.9	718.8	727.5	876.4	1074.9	1174.1	1354.2	1714.2
127.5°	762.2	726.9	691.7	726.9	762.2	771.0	900.1	1072.1	1158.1	1312.7	1621.8
130°	790.5	752.5	714.5	752.5	790.5	800.0	917.3	1073.8	1152.0	1289.5	1564.8
132.5°	814.2	776.2	738.2	776.2	814.2	823.7	931.4	1074.9	1146.7	1269.8	1516.1
135°	842.6	807.9	773.3	807.9	842.6	851.3	946.7	1073.9	1137.5	1240.6	1446.9
137.5°	877.8	843.5	809.2	843.5	877.8	886.3	969.5	1080.5	1135.9	1223.1	1397.6
140°	902.1	870.5	839.0	870.5	902.1	910.0	983.5	1081.6	1130.6	1205.9	1356.6
142.5°	920.3	891.1	861.9	891.1	920.3	927.5	995.2	1085.4	1130.6	1196.8	1329.1
145°	948.0	922.5	897.0	922.5	948.0	954.3	1010.6	1085.5	1123.0	1177.1	1285.3
147.5°	981.7	956.9	932.1	956.9	981.7	987.9	1033.0	1093.0	1123.0	1165.6	1250.7
150°	999.8	977.4	955.0	977.4	999.8	1005.4	1044.6	1096.8	1123.0	1159.0	1230.9
152.5°	1012.7	995.7	978.7	995.7	1012.7	1016.9	1052.2	1099.4	1123.0	1153.7	1215.1
155°	1038.9	1026.4	1013.8	1026.4	1038.9	1042.0	1069.0	1105.0	1123.0	1147.4	1196.3
157.5°	1064.3	1052.0	1039.7	1052.0	1064.3	1067.3	1085.8	1110.6	1123.0	1142.0	1180.0
160°	1076.4	1066.9	1057.4	1066.9	1076.4	1078.8	1093.5	1113.2	1123.0	1139.3	1171.9
162.5°	1089.2	1082.1	1074.9	1082.1	1089.2	1091.0	1101.6	1115.8	1123.0	1136.7	1164.2
165°	1106.8	1100.4	1094.0	1100.4	1106.8	1108.5	1113.3	1119.8	1123.0	1132.8	1152.5
167.5°	1117.7	1114.5	1111.5	1114.5	1117.7	1118.4	1122.4	1127.8	1130.6	1137.0	1150.0
170°	1129.1	1126.0	1123.0	1126.0	1129.1	1129.9	1130.1	1130.4	1130.6	1137.0	1150.0
172.5°	1130.4	1129.8	1129.1	1129.8	1130.4	1130.6	1130.6	1130.6	1130.6	1135.7	1145.9
175°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1135.2	1132.2	1130.6	1133.8	1140.2
177.5°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1135.7	1133.4	1132.2	1134.7	1139.8
180°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5



TEST NUMBER: P935068

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1255.5	1251.8	1256.8	1243.2	1256.8	1251.8	1255.5	1264.1	1256.8	1261.6	1266.6
5°	1101.7	1095.5	1075.8	1059.8	1075.8	1095.5	1101.7	1127.5	1139.8	1162.0	1191.5
7.5°	984.7	979.8	974.9	965.0	974.9	979.8	984.7	992.1	1004.4	1024.1	1046.3
10°	958.9	960.1	967.5	966.2	967.5	960.1	958.9	956.4	952.8	956.4	969.9
12.5°	1025.3	1036.4	1077.0	1074.6	1077.0	1036.4	1025.3	976.2	942.8	936.7	939.2
15°	1101.7	1105.4	1114.0	1115.2	1114.0	1105.4	1101.7	1082.0	982.3	939.2	925.7
17.5°	1109.0	1110.3	1116.5	1116.5	1116.5	1110.3	1109.0	1100.4	1067.2	1009.4	933.0
20°	1102.9	1105.4	1117.7	1120.1	1117.7	1105.4	1102.9	1091.8	1073.3	1052.4	994.6
22.5°	1100.4	1105.4	1115.2	1114.0	1115.2	1105.4	1100.4	1083.2	1067.2	1052.4	1029.0
25°	1088.1	1088.1	1089.4	1090.6	1089.4	1088.1	1088.1	1074.6	1042.6	1038.9	1025.3
27.5°	1062.2	1064.7	1072.1	1070.9	1072.1	1064.7	1062.2	1057.4	1022.9	1019.2	1009.4
30°	1038.9	1036.4	1030.3	1025.3	1030.3	1036.4	1038.9	1031.5	997.1	987.2	989.6
32.5°	999.5	993.3	987.2	983.5	987.2	993.3	999.5	997.1	971.2	957.6	960.1
35°	952.8	953.9	952.8	949.0	952.8	953.9	952.8	955.2	939.2	926.9	925.7
37.5°	919.5	921.9	920.7	915.8	920.7	921.9	919.5	917.1	894.8	891.2	893.7
40°	885.0	886.2	885.0	881.4	885.0	886.2	885.0	880.1	849.3	850.5	859.1
42.5°	851.8	850.5	846.8	844.4	846.8	850.5	851.8	844.4	805.0	801.3	817.3
45°	813.6	814.8	807.5	803.8	807.5	814.8	813.6	808.7	768.1	758.2	769.3
47.5°	775.5	775.5	769.3	765.6	769.3	775.5	775.5	769.3	726.3	716.4	722.5
50°	734.9	733.6	725.0	723.8	725.0	733.6	734.9	731.1	685.6	677.0	677.0
52.5°	688.1	688.1	689.3	691.8	689.3	688.1	688.1	689.3	648.7	640.1	637.6
55°	647.4	648.7	657.3	659.7	657.3	648.7	647.4	647.4	610.5	601.9	597.0
57.5°	605.6	605.6	611.7	611.7	611.7	605.6	605.6	603.1	567.4	560.1	557.6
60°	557.6	560.1	565.0	563.7	565.0	560.1	557.6	555.1	524.4	519.4	510.8
62.5°	507.1	509.6	510.8	508.4	510.8	509.6	507.1	499.8	481.3	477.6	466.6
65°	454.2	456.6	457.9	455.5	457.9	456.6	454.2	450.5	437.0	430.9	420.9
67.5°	400.0	398.8	397.5	402.5	397.5	398.8	400.0	395.2	386.5	381.6	368.1
70°	344.7	344.7	343.4	345.9	343.4	344.7	344.7	340.9	336.1	332.4	320.0
72.5°	285.6	284.3	289.3	285.6	289.3	284.3	285.6	284.3	281.9	278.2	265.9
75°	227.7	230.2	227.7	231.4	227.7	230.2	227.7	229.0	227.7	225.3	216.7
77.5°	173.5	176.0	173.5	173.5	173.5	176.0	173.5	174.8	174.8	174.8	167.4
80°	123.1	121.9	121.9	120.6	121.9	121.9	123.1	123.1	124.3	121.9	119.4
82.5°	78.7	77.5	77.5	80.0	77.5	77.5	78.7	80.0	77.5	77.5	77.5
85°	43.0	44.3	41.8	41.8	41.8	44.3	43.0	40.7	43.0	43.0	41.8
87.5°	16.0	14.8	14.8	14.8	14.8	14.8	16.0	17.3	17.3	17.3	18.4
90°	29.0	29.0	29.0	29.0	29.0	29.0	29.0	38.6	51.6	58.0	49.8
92.5°	145.1	139.3	116.3	93.1	116.3	139.3	145.1	205.7	286.3	326.7	286.9
95°	492.4	475.0	405.1	335.1	405.1	475.0	492.4	646.6	852.3	955.0	806.6
97.5°	1136.7	1103.5	970.5	837.5	970.5	1103.5	1136.7	1234.2	1364.2	1429.1	1181.6
100°	1596.3	1556.7	1398.3	1239.8	1398.3	1556.7	1596.3	1589.2	1579.7	1574.9	1300.3
102.5°	1988.7	1954.8	1819.1	1683.3	1819.1	1954.8	1988.7	1864.6	1698.9	1616.2	1337.5
105°	2446.8	2428.5	2355.5	2282.6	2355.5	2428.5	2446.8	2168.3	1797.1	1611.6	1341.9
107.5°	2684.9	2689.3	2707.0	2724.6	2707.0	2689.3	2684.9	2296.6	1778.9	1520.0	1282.1
110°	2746.0	2765.0	2841.0	2917.0	2841.0	2765.0	2746.0	2311.9	1733.1	1443.6	1229.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2707.1	2736.3	2852.9	2969.7	2852.9	2736.3	2707.1	2262.8	1670.4	1374.2	1183.0
115°	2575.1	2615.5	2777.3	2939.2	2777.3	2615.5	2575.1	2147.0	1576.3	1290.9	1130.0
117.5°	2392.5	2437.4	2616.9	2796.4	2616.9	2437.4	2392.5	2006.3	1491.2	1233.7	1096.7
120°	2269.6	2313.2	2487.7	2662.0	2487.7	2313.2	2269.6	1916.7	1446.1	1210.8	1085.6
122.5°	2146.8	2189.8	2361.8	2533.8	2361.8	2189.8	2146.8	1828.9	1405.1	1193.2	1079.7
125°	1984.1	2023.8	2182.2	2340.7	2182.2	2023.8	1984.1	1714.2	1354.2	1174.1	1074.9
127.5°	1853.6	1887.0	2020.7	2154.4	2020.7	1887.0	1853.6	1621.8	1312.7	1158.1	1072.1
130°	1771.2	1802.0	1925.5	2049.0	1925.5	1802.0	1771.2	1564.8	1289.5	1152.0	1073.8
132.5°	1700.9	1728.5	1839.2	1949.7	1839.2	1728.5	1700.9	1516.1	1269.8	1146.7	1074.9
135°	1601.7	1625.5	1720.9	1816.2	1720.9	1625.5	1601.7	1446.9	1240.6	1137.5	1073.9
137.5°	1528.3	1547.9	1625.9	1704.0	1625.9	1547.9	1528.3	1397.6	1223.1	1135.9	1080.5
140°	1469.6	1487.9	1560.7	1633.7	1560.7	1487.9	1469.6	1356.6	1205.9	1130.6	1081.6
142.5°	1428.4	1444.1	1506.9	1569.6	1506.9	1444.1	1428.4	1329.1	1196.8	1130.6	1085.4
145°	1366.5	1378.4	1425.9	1473.4	1425.9	1378.4	1366.5	1285.3	1177.1	1123.0	1085.5
147.5°	1314.6	1324.4	1363.8	1403.2	1363.8	1324.4	1314.6	1250.7	1165.6	1123.0	1093.0
150°	1284.9	1292.8	1324.7	1356.6	1324.7	1292.8	1284.9	1230.9	1159.0	1123.0	1096.8
152.5°	1261.2	1267.2	1291.3	1315.3	1291.3	1267.2	1261.2	1215.1	1153.7	1123.0	1099.4
155°	1232.9	1236.9	1252.8	1268.8	1252.8	1236.9	1232.9	1196.3	1147.4	1123.0	1105.0
157.5°	1208.5	1211.3	1222.5	1233.7	1222.5	1211.3	1208.5	1180.0	1142.0	1123.0	1110.6
160°	1196.3	1198.0	1204.4	1210.8	1204.4	1198.0	1196.3	1171.9	1139.3	1123.0	1113.2
162.5°	1184.8	1186.4	1192.5	1198.6	1192.5	1186.4	1184.8	1164.2	1136.7	1123.0	1115.8
165°	1167.3	1169.0	1175.4	1181.8	1175.4	1169.0	1167.3	1152.5	1132.8	1123.0	1119.8
167.5°	1159.6	1160.2	1163.0	1165.7	1163.0	1160.2	1159.6	1150.0	1137.0	1130.6	1127.8
170°	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1159.6	1150.0	1137.0	1130.6	1130.4
172.5°	1153.5	1153.0	1150.6	1148.2	1150.6	1153.0	1153.5	1145.9	1135.7	1130.6	1130.6
175°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1140.2	1133.8	1130.6	1132.2
177.5°	1143.6	1143.0	1140.2	1137.5	1140.2	1143.0	1143.6	1139.8	1134.7	1132.2	1133.4
180°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1285.0	1291.2	1295.0	1299.8	1312.1
5°	1235.9	1259.3	1266.6	1285.0	1307.3
7.5°	1127.5	1198.9	1218.6	1262.9	1297.3
10°	1022.9	1094.3	1128.8	1233.4	1285.0
12.5°	969.9	1011.9	1035.2	1181.7	1267.8
15°	936.7	966.2	983.5	1112.7	1248.2
17.5°	910.9	931.8	944.1	1045.1	1221.1
20°	894.8	904.8	915.8	995.8	1190.3
22.5°	883.8	877.7	886.2	961.4	1148.4
25°	876.4	853.0	862.9	934.3	1099.2
27.5°	882.5	830.9	834.6	909.6	1047.5
30°	883.8	803.8	805.0	883.8	989.6
32.5°	875.2	775.5	776.7	851.8	924.4
35°	854.3	742.2	741.0	814.8	835.7
37.5°	825.9	706.5	706.5	774.3	738.6
40°	791.5	670.8	674.5	721.3	652.4
42.5°	749.7	632.7	637.6	651.2	588.3
45°	704.1	595.8	599.4	550.2	539.1
47.5°	653.6	557.6	558.9	456.6	523.2
50°	593.3	518.2	513.3	391.4	521.9
52.5°	540.3	475.1	460.3	354.5	473.9
55°	488.7	429.6	397.5	326.1	439.4
57.5°	443.2	370.5	339.7	292.9	432.1
60°	401.3	312.7	289.3	257.2	396.4
62.5°	366.8	269.5	264.7	232.6	359.5
65°	329.9	240.1	238.8	211.7	305.2
67.5°	294.2	220.3	219.1	192.0	232.6
70°	256.0	199.4	196.9	171.1	172.3
72.5°	216.7	176.0	173.5	153.9	142.8
75°	177.2	148.9	147.7	134.2	115.7
77.5°	139.1	118.2	120.6	108.3	85.0
80°	99.7	86.2	88.6	77.5	64.0
82.5°	66.4	56.6	59.1	49.3	43.0
85°	36.9	32.0	33.2	25.9	19.7
87.5°	17.3	14.8	14.8	9.8	6.1
90°	33.6	21.4	19.8	13.8	7.6
92.5°	207.1	147.4	134.4	82.5	30.6
95°	509.7	287.1	263.3	168.3	73.3
97.5°	686.6	315.3	294.4	210.5	126.7
100°	750.9	339.0	320.0	243.9	167.9
102.5°	780.4	362.6	344.9	273.9	203.1
105°	802.3	397.7	382.7	322.7	262.6
107.5°	806.5	449.7	435.6	379.7	323.7
110°	800.3	478.7	466.0	415.4	364.9



TEST NUMBER: P935068

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	800.6	513.8	501.8	453.5	405.3
115°	807.9	566.5	555.4	510.9	466.5
117.5°	823.0	617.6	607.5	567.1	526.8
120°	835.2	647.3	637.9	599.9	561.9
122.5°	852.7	682.5	672.9	634.6	596.2
125°	876.4	727.5	718.8	683.9	648.9
127.5°	900.1	771.0	762.2	726.9	691.7
130°	917.3	800.0	790.5	752.5	714.5
132.5°	931.4	823.7	814.2	776.2	738.2
135°	946.7	851.3	842.6	807.9	773.3
137.5°	969.5	886.3	877.8	843.5	809.2
140°	983.5	910.0	902.1	870.5	839.0
142.5°	995.2	927.5	920.3	891.1	861.9
145°	1010.6	954.3	948.0	922.5	897.0
147.5°	1033.0	987.9	981.7	956.9	932.1
150°	1044.6	1005.4	999.8	977.4	955.0
152.5°	1052.2	1016.9	1012.7	995.7	978.7
155°	1069.0	1042.0	1038.9	1026.4	1013.8
157.5°	1085.8	1067.3	1064.3	1052.0	1039.7
160°	1093.5	1078.8	1076.4	1066.9	1057.4
162.5°	1101.6	1091.0	1089.2	1082.1	1074.9
165°	1113.3	1108.5	1106.8	1100.4	1094.0
167.5°	1122.4	1118.4	1117.7	1114.5	1111.5
170°	1130.1	1129.9	1129.1	1126.0	1123.0
172.5°	1130.6	1130.6	1130.4	1129.8	1129.1
175°	1135.2	1137.5	1137.5	1137.5	1137.5
177.5°	1135.7	1137.5	1137.5	1137.5	1137.5
180°	1137.5	1137.5	1137.5	1137.5	1137.5



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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	9.03	9.75	10.13	10.84	12.36	11.87	12.58	12.97	13.68	15.20
	3H	9.50	10.14	10.61	11.24	12.77	13.20	13.84	14.31	14.95	16.48
	4H	9.68	10.29	10.80	11.40	12.93	13.64	14.25	14.76	15.36	16.90
	6H	9.79	10.35	10.92	11.46	13.01	13.92	14.48	15.05	15.59	17.14
	8H	9.79	10.32	10.92	11.45	12.99	13.99	14.53	15.13	15.65	17.19
	12H	9.75	10.26	10.89	11.38	12.94	14.03	14.53	15.16	15.65	17.22
4H	2H	10.05	10.65	11.17	11.76	13.30	12.26	12.87	13.39	13.97	15.51
	3H	11.06	11.57	12.19	12.70	14.25	13.75	14.26	14.89	15.39	16.94
	4H	11.33	11.80	12.47	12.92	14.49	14.28	14.74	15.41	15.86	17.43
	6H	11.45	11.84	12.59	12.99	14.55	14.63	15.03	15.78	16.18	17.74
	8H	11.45	11.82	12.59	12.96	14.54	14.74	15.11	15.88	16.25	17.83
	12H	11.41	11.75	12.57	12.90	14.48	14.79	15.13	15.95	16.28	17.86
8H	4H	11.77	12.14	12.92	13.28	14.86	14.39	14.76	15.53	15.90	17.48
	6H	12.03	12.34	13.19	13.52	15.09	14.82	15.13	15.98	16.31	17.88
	8H	12.07	12.34	13.24	13.50	15.09	14.97	15.24	16.14	16.40	17.99
	12H	12.05	12.28	13.22	13.44	15.07	15.07	15.30	16.24	16.46	18.09
12H	4H	11.77	12.11	12.93	13.26	14.84	14.35	14.68	15.51	15.83	17.41
	6H	12.09	12.36	13.26	13.52	15.11	14.82	15.08	15.99	16.24	17.84
	8H	12.15	12.38	13.32	13.54	15.17	14.97	15.21	16.15	16.36	17.99