

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: P935282

Luminaire Tested: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935282
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

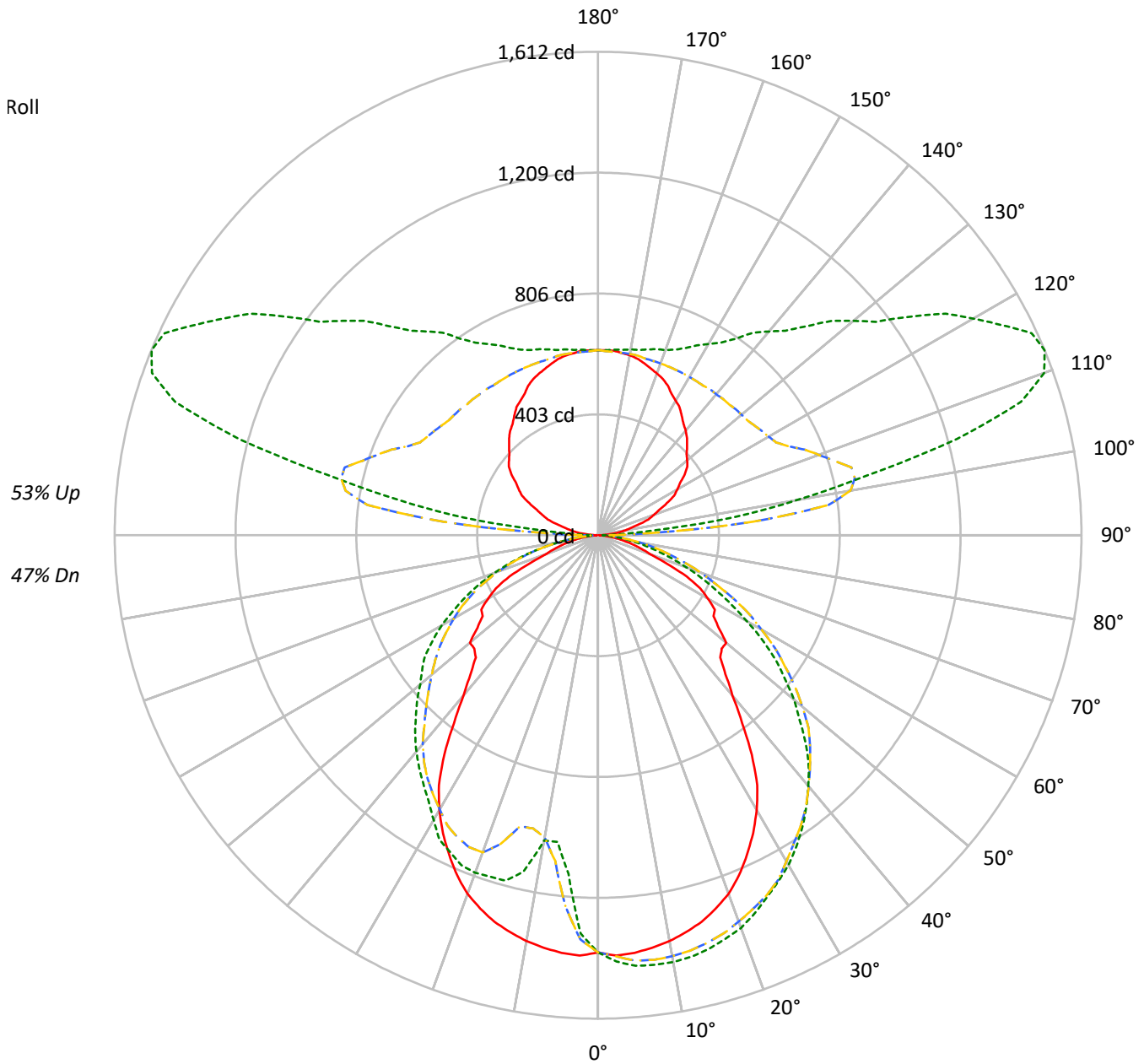
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7610.4 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 58
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: P935282
CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12906	12906	12906	12906
5°	12990	13029	12990	10244
10°	12889	12834	12889	9176
15°	12733	12556	12733	10484
20°	12452	12227	12452	10506
25°	11894	11747	11894	10284
30°	11176	11348	11176	9795
35°	9947	10843	9947	9258
40°	8275	10249	8275	8852
45°	7380	9554	7380	8385
50°	7822	8725	7822	7917
55°	7338	7832	7338	7646
60°	7537	6651	7537	7003
65°	6802	5498	6802	6146
70°	4679	4382	4679	5152
75°	4056	3239	4056	3879
80°	3201	2141	3201	2332
85°	1739	1133	1739	963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11331 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	1.6
10°-20°	356.5	4.7
20°-30°	551.1	7.2
30°-40°	657.9	8.6
40°-50°	661.7	8.7
50°-60°	575.8	7.6
60°-70°	408.2	5.4
70°-80°	216.0	2.8
80°-90°	56.1	0.7
90°-100°	300.9	4.0
100°-110°	791.1	10.4
110°-120°	820.2	10.8
120°-130°	657.9	8.6
130°-140°	516.2	6.8
140°-150°	396.2	5.2
150°-160°	285.4	3.7
160°-170°	174.6	2.3
170°-180°	59.0	0.8
0°-30°	1033.1	13.6
0°-40°	1691.0	22.2
0°-60°	2928.5	38.5
0°-90°	3608.9	47.4
90°-120°	1912.2	25.1
90°-150°	3482.6	45.8
90°-180°	4002.0	52.6
0°-180°	7610.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1391	1391	1391	1391	1391	
5°	1398	1441	1398	1133	1398	133
15°	1334	1428	1334	1192	1334	375
25°	1175	1332	1175	1166	1175	540
35°	894	1188	894	1015	894	553
45°	576	979	576	859	576	462
55°	470	722	470	705	470	432
65°	326	436	326	487	326	312
75°	124	207	124	247	124	130
85°	21	53	21	45	21	28
90°	4	16	4	16	4	4
95°	40	182	40	182	40	44
105°	142	1239	142	1239	142	151
115°	253	1595	253	1595	253	250
125°	352	1270	352	1270	352	313
135°	420	986	420	986	420	325
145°	487	800	487	800	487	305
155°	550	688	550	688	550	253
165°	594	641	594	641	594	168
175°	617	621	617	621	617	59
180°	617	617	617	617	617	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1402.8	1402.8	1410.7	1413.3	1413.3	1409.3	1405.5	1409.3	1421.2	1425.2	1423.9
5°	1397.6	1408.0	1422.6	1425.2	1427.8	1426.5	1423.9	1426.5	1439.6	1442.3	1443.6
7.5°	1387.0	1406.8	1425.2	1429.2	1433.0	1429.2	1427.8	1430.5	1443.6	1446.2	1446.2
10°	1373.9	1401.5	1422.6	1425.2	1429.2	1425.2	1425.2	1430.5	1443.6	1446.2	1447.6
12.5°	1355.5	1393.6	1413.3	1416.0	1421.2	1419.9	1418.6	1423.9	1437.0	1439.6	1439.6
15°	1334.3	1379.2	1397.6	1400.2	1409.3	1406.8	1406.8	1412.0	1426.5	1430.5	1429.2
17.5°	1305.5	1360.7	1381.8	1385.7	1392.3	1390.9	1392.3	1397.6	1410.7	1413.3	1414.6
20°	1272.5	1335.7	1360.7	1364.6	1371.2	1371.2	1371.2	1377.8	1390.9	1396.2	1396.2
22.5°	1227.8	1309.3	1335.7	1338.3	1346.2	1346.2	1348.9	1358.0	1369.9	1371.2	1371.2
25°	1175.2	1280.5	1302.8	1310.7	1318.6	1322.5	1326.5	1331.8	1335.7	1334.3	1335.7
27.5°	1119.9	1243.6	1272.5	1277.8	1288.3	1292.3	1297.5	1298.9	1300.2	1304.1	1301.5
30°	1058.1	1192.2	1235.6	1240.9	1258.0	1260.6	1255.5	1258.0	1264.6	1267.3	1269.9
32.5°	988.2	1115.9	1197.5	1209.3	1225.2	1217.2	1215.9	1219.9	1230.5	1230.5	1233.0
35°	893.5	1056.8	1162.0	1172.5	1184.3	1175.2	1180.4	1181.8	1188.3	1192.2	1190.9
37.5°	789.5	1005.4	1125.2	1133.0	1142.2	1130.4	1138.3	1142.2	1147.5	1144.9	1144.9
40°	697.5	925.1	1081.8	1086.9	1094.9	1085.6	1093.5	1096.2	1098.8	1096.2	1094.9
42.5°	629.1	836.9	1035.6	1042.2	1036.9	1043.5	1046.2	1051.5	1047.5	1042.2	1042.2
45°	576.4	813.2	985.6	993.5	985.6	996.2	1000.1	1000.1	988.2	985.6	984.3
47.5°	559.3	765.9	935.6	935.6	931.7	944.8	951.5	942.2	930.4	926.5	926.5
50°	558.0	713.2	867.2	861.9	880.4	896.2	889.6	880.4	871.2	856.7	856.7
52.5°	506.7	648.8	779.1	798.8	827.8	836.9	826.4	817.2	801.4	794.8	789.5
55°	469.8	581.7	698.8	738.2	768.5	780.4	760.6	751.4	727.7	723.8	721.1
57.5°	461.9	484.3	625.1	675.1	711.9	710.6	698.8	681.7	661.9	658.0	656.7
60°	423.7	350.0	546.1	605.4	643.5	639.5	629.1	613.2	594.8	592.2	589.5
62.5°	384.3	254.0	456.7	523.8	577.7	576.4	567.2	543.5	530.4	523.8	518.5
65°	326.4	213.1	325.0	435.6	513.2	515.8	496.1	479.0	464.5	456.7	455.3
67.5°	248.7	173.7	219.7	363.2	451.4	448.7	423.7	415.8	397.4	393.4	385.6
70°	184.3	115.8	152.7	294.8	390.8	384.3	364.5	355.3	338.2	329.0	323.7
72.5°	152.7	93.4	111.9	229.0	329.0	321.1	304.0	293.4	279.0	271.1	265.8
75°	123.7	98.7	85.6	169.7	267.1	261.8	246.1	235.6	223.7	213.1	214.5
77.5°	90.8	92.1	68.4	125.0	211.8	204.0	194.7	181.6	176.3	165.8	165.8
80°	68.4	72.4	51.3	85.6	152.7	152.7	144.7	135.6	126.3	121.1	121.1
82.5°	46.0	46.0	38.1	54.0	104.0	100.0	94.7	92.1	86.9	84.3	84.3
85°	21.0	26.3	23.7	32.9	56.6	59.3	59.3	56.6	55.3	52.6	54.0
87.5°	6.6	11.9	14.4	18.4	29.0	30.3	31.6	31.6	31.6	32.9	32.9
90°	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0	15.7	15.7
92.5°	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6	78.7	75.6
95°	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9	267.2	257.8
97.5°	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7	616.8	598.8
100°	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3	866.2	844.7
102.5°	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8	1079.2	1060.7
105°	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7	1327.8	1317.9
107.5°	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3	1457.0	1459.4
110°	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6	1490.1	1500.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9	1469.0	1484.8
115°	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1	1397.4	1419.3
117.5°	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7	1298.4	1322.7
120°	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1	1231.7	1255.4
122.5°	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4	1164.9	1188.2
125°	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2	1076.7	1098.2
127.5°	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1	1005.9	1024.0
130°	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2	961.1	977.9
132.5°	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7	923.0	938.0
135°	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1	869.1	882.1
137.5°	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4	829.4	839.9
140°	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1	797.5	807.4
142.5°	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2	775.1	783.7
145°	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5	741.5	748.0
147.5°	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8	713.4	718.8
150°	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9	697.2	701.5
152.5°	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4	684.4	687.6
155°	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2	669.0	671.2
157.5°	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3	655.8	657.3
160°	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9	649.2	650.1
162.5°	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8	642.9	643.7
165°	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5	633.5	634.4
167.5°	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0	629.3	629.7
170°	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0	629.3	629.3
172.5°	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8	626.0	625.7
175°	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8	621.4	621.4
177.5°	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5	620.6	620.2
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1426.5	1422.6	1426.5	1423.9	1425.2	1421.2	1409.3	1405.5	1409.3	1413.3	1413.3
5°	1443.6	1441.0	1443.6	1443.6	1442.3	1439.6	1426.5	1423.9	1426.5	1427.8	1425.2
7.5°	1448.9	1444.9	1448.9	1446.2	1446.2	1443.6	1430.5	1427.8	1429.2	1433.0	1429.2
10°	1448.9	1444.9	1448.9	1447.6	1446.2	1443.6	1430.5	1425.2	1425.2	1429.2	1425.2
12.5°	1442.3	1439.6	1442.3	1439.6	1439.6	1437.0	1423.9	1418.6	1419.9	1421.2	1416.0
15°	1431.8	1427.8	1431.8	1429.2	1430.5	1426.5	1412.0	1406.8	1406.8	1409.3	1400.2
17.5°	1416.0	1410.7	1416.0	1414.6	1413.3	1410.7	1397.6	1392.3	1390.9	1392.3	1385.7
20°	1397.6	1393.6	1397.6	1396.2	1396.2	1390.9	1377.8	1371.2	1371.2	1371.2	1364.6
22.5°	1368.6	1364.6	1368.6	1371.2	1371.2	1369.9	1358.0	1348.9	1346.2	1346.2	1338.3
25°	1335.7	1331.8	1335.7	1335.7	1334.3	1335.7	1331.8	1326.5	1322.5	1318.6	1310.7
27.5°	1304.1	1301.5	1304.1	1301.5	1304.1	1300.2	1298.9	1297.5	1292.3	1288.3	1277.8
30°	1272.5	1269.9	1272.5	1269.9	1267.3	1264.6	1258.0	1255.5	1260.6	1258.0	1240.9
32.5°	1233.0	1230.5	1233.0	1233.0	1230.5	1230.5	1219.9	1215.9	1217.2	1225.2	1209.3
35°	1192.2	1188.3	1192.2	1190.9	1192.2	1188.3	1181.8	1180.4	1175.2	1184.3	1172.5
37.5°	1144.9	1140.9	1144.9	1144.9	1144.9	1147.5	1142.2	1138.3	1130.4	1142.2	1133.0
40°	1096.2	1090.9	1096.2	1094.9	1096.2	1098.8	1096.2	1093.5	1085.6	1094.9	1086.9
42.5°	1040.9	1039.6	1040.9	1042.2	1042.2	1047.5	1051.5	1046.2	1043.5	1036.9	1042.2
45°	981.7	979.1	981.7	984.3	985.6	988.2	1000.1	1000.1	996.2	985.6	993.5
47.5°	918.5	911.9	918.5	926.5	926.5	930.4	942.2	951.5	944.8	931.7	935.6
50°	851.4	852.8	851.4	856.7	856.7	871.2	880.4	889.6	896.2	880.4	861.9
52.5°	785.6	784.4	785.6	789.5	794.8	801.4	817.2	826.4	836.9	827.8	798.8
55°	719.8	722.5	719.8	721.1	723.8	727.7	751.4	760.6	780.4	768.5	738.2
57.5°	654.1	650.1	654.1	656.7	658.0	661.9	681.7	698.8	710.6	711.9	675.1
60°	577.7	572.4	577.7	589.5	592.2	594.8	613.2	629.1	639.5	643.5	605.4
62.5°	510.5	501.4	510.5	518.5	523.8	530.4	543.5	567.2	576.4	577.7	523.8
65°	439.5	435.6	439.5	455.3	456.7	464.5	479.0	496.1	515.8	513.2	435.6
67.5°	375.1	375.1	375.1	385.6	393.4	397.4	415.8	423.7	448.7	451.4	363.2
70°	315.8	314.5	315.8	323.7	329.0	338.2	355.3	364.5	384.3	390.8	294.8
72.5°	259.3	258.0	259.3	265.8	271.1	279.0	293.4	304.0	321.1	329.0	229.0
75°	209.3	206.6	209.3	214.5	213.1	223.7	235.6	246.1	261.8	267.1	169.7
77.5°	160.6	160.6	160.6	165.8	165.8	176.3	181.6	194.7	204.0	211.8	125.0
80°	119.7	118.4	119.7	121.1	121.1	126.3	135.6	144.7	152.7	152.7	85.6
82.5°	84.3	81.6	84.3	84.3	84.3	86.9	92.1	94.7	100.0	104.0	54.0
85°	52.6	52.6	52.6	54.0	52.6	55.3	56.6	59.3	59.3	56.6	32.9
87.5°	34.3	32.9	34.3	32.9	32.9	31.6	31.6	31.6	30.3	29.0	18.4
90°	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1	18.2	11.6
92.5°	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7	112.4	80.0
95°	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6	276.6	155.8
97.5°	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2	372.6	171.1
100°	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7	407.6	184.0
102.5°	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9	423.6	196.8
105°	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2	435.5	215.8
107.5°	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7	437.6	244.0
110°	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0	434.3	259.8



TEST NUMBER: P935282

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9	434.5	278.8
115°	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2	438.4	307.4
117.5°	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2	446.6	335.2
120°	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1	453.2	351.3
122.5°	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9	462.7	370.4
125°	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3	475.6	394.8
127.5°	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8	488.4	418.4
130°	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8	497.8	434.2
132.5°	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3	505.4	447.0
135°	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8	513.7	461.9
137.5°	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3	526.1	481.0
140°	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9	533.8	493.8
142.5°	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0	540.1	503.4
145°	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1	548.4	517.8
147.5°	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1	560.5	536.0
150°	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3	566.9	545.6
152.5°	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6	571.0	551.8
155°	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7	580.2	565.5
157.5°	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7	589.2	579.2
160°	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1	593.4	585.3
162.5°	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6	597.8	592.0
165°	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7	604.2	601.5
167.5°	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0	609.2	607.0
170°	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4	613.2	613.1
172.5°	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3	616.0	617.3
177.5°	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0	616.3	617.3
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935282

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1410.7	1402.8	1402.8	1389.6	1384.3	1380.5	1373.9	1354.2	1348.9	1343.6	1351.5
5°	1422.6	1408.0	1397.6	1373.9	1354.2	1346.2	1321.2	1273.9	1242.2	1218.6	1205.5
7.5°	1425.2	1406.8	1387.0	1350.2	1302.8	1281.8	1205.5	1118.6	1094.9	1073.8	1060.6
10°	1422.6	1401.5	1373.9	1318.6	1206.8	1169.9	1093.5	1036.9	1022.5	1018.5	1022.5
12.5°	1413.3	1393.6	1355.5	1263.3	1106.8	1081.8	1036.9	1004.1	1001.5	1008.1	1043.5
15°	1397.6	1379.2	1334.3	1189.6	1051.5	1033.1	1001.5	989.6	1004.1	1050.1	1156.8
17.5°	1381.8	1360.7	1305.5	1117.2	1009.3	996.2	973.8	997.5	1079.1	1140.9	1176.5
20°	1360.7	1335.7	1272.5	1064.6	979.1	967.2	956.7	1063.3	1125.2	1147.5	1167.2
22.5°	1335.7	1309.3	1227.8	1027.8	947.5	938.2	944.8	1100.2	1125.2	1140.9	1158.0
25°	1302.8	1280.5	1175.2	998.8	922.5	911.9	936.9	1096.2	1110.6	1114.6	1148.8
27.5°	1272.5	1243.6	1119.9	972.5	892.2	888.2	943.5	1079.1	1089.6	1093.5	1130.4
30°	1235.6	1192.2	1058.1	944.8	860.6	859.3	944.8	1058.1	1055.4	1065.9	1102.8
32.5°	1197.5	1115.9	988.2	910.6	830.4	829.1	935.6	1026.5	1023.8	1038.3	1065.9
35°	1162.0	1056.8	893.5	871.2	792.2	793.5	913.2	989.6	990.9	1004.1	1021.2
37.5°	1125.2	1005.4	789.5	827.8	755.4	755.4	883.0	955.4	952.8	956.7	980.4
40°	1081.8	925.1	697.5	771.1	721.1	717.2	846.2	918.5	909.3	908.1	940.9
42.5°	1035.6	836.9	629.1	696.1	681.7	676.4	801.4	873.8	856.7	860.6	902.8
45°	985.6	813.2	576.4	588.2	640.8	636.9	752.7	822.5	810.6	821.2	864.6
47.5°	935.6	765.9	559.3	488.2	597.4	596.1	698.8	772.5	765.9	776.4	822.5
50°	867.2	713.2	558.0	418.5	548.8	554.0	634.3	723.8	723.8	733.0	781.7
52.5°	779.1	648.8	506.7	379.0	492.1	508.0	577.7	681.7	684.3	693.5	736.9
55°	698.8	581.7	469.8	348.7	425.1	459.3	522.4	638.2	643.5	652.7	692.2
57.5°	625.1	484.3	461.9	313.2	363.2	396.1	473.7	596.1	598.8	606.7	644.8
60°	546.1	350.0	423.7	275.0	309.3	334.3	429.0	546.1	555.4	560.5	593.5
62.5°	456.7	254.0	384.3	248.7	283.0	288.2	392.1	498.7	510.5	514.5	534.3
65°	325.0	213.1	326.4	226.4	255.3	256.6	352.7	450.1	460.6	467.1	481.7
67.5°	219.7	173.7	248.7	205.3	234.3	235.6	314.5	393.4	408.0	413.2	422.4
70°	152.7	115.8	184.3	183.0	210.6	213.1	273.7	342.1	355.3	359.3	364.5
72.5°	111.9	93.4	152.7	164.5	185.6	188.1	231.6	284.3	297.4	301.4	304.0
75°	85.6	98.7	123.7	143.4	157.9	159.3	189.5	231.6	240.8	243.4	244.7
77.5°	68.4	92.1	90.8	115.8	129.0	126.3	148.7	179.0	186.8	186.8	186.8
80°	51.3	72.4	68.4	82.9	94.7	92.1	106.6	127.7	130.3	132.9	131.6
82.5°	38.1	46.0	46.0	52.6	63.1	60.6	71.0	82.9	82.9	82.9	85.6
85°	23.7	26.3	21.0	27.6	35.6	34.3	39.4	44.7	46.0	46.0	43.4
87.5°	14.4	11.9	6.6	10.6	15.8	15.8	18.4	19.7	18.4	18.4	18.4
90°	10.8	7.5	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0
92.5°	72.9	44.7	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6
95°	142.9	91.3	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9
97.5°	159.8	114.2	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7
100°	173.6	132.4	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3
102.5°	187.1	148.7	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8
105°	207.7	175.1	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7
107.5°	236.5	206.1	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3
110°	252.9	225.5	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6



TEST NUMBER: P935282

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	272.2	246.1	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9
115°	301.3	277.2	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1
117.5°	329.7	307.8	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7
120°	346.1	325.5	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1
122.5°	365.2	344.4	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4
125°	390.0	371.1	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2
127.5°	413.6	394.4	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1
130°	429.0	408.4	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2
132.5°	441.8	421.2	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7
135°	457.3	438.4	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1
137.5°	476.3	457.8	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4
140°	489.5	472.4	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1
142.5°	499.4	483.6	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2
145°	514.3	500.6	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5
147.5°	532.7	519.3	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8
150°	542.5	530.4	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9
152.5°	549.5	540.2	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4
155°	563.8	557.0	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2
157.5°	577.5	570.9	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3
160°	584.1	579.0	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9
162.5°	591.0	587.1	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8
165°	600.6	597.1	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5
167.5°	606.6	604.9	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0
170°	612.7	611.0	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0
172.5°	613.4	613.1	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8
175°	617.3	617.3	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8
177.5°	617.3	617.3	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935282

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1342.3	1338.3	1343.6	1329.1	1343.6	1338.3	1342.3	1351.5	1343.6	1348.9	1354.2
5°	1177.8	1171.2	1150.2	1133.0	1150.2	1171.2	1177.8	1205.5	1218.6	1242.2	1273.9
7.5°	1052.8	1047.5	1042.2	1031.7	1042.2	1047.5	1052.8	1060.6	1073.8	1094.9	1118.6
10°	1025.1	1026.5	1034.3	1033.1	1034.3	1026.5	1025.1	1022.5	1018.5	1022.5	1036.9
12.5°	1096.2	1108.0	1151.5	1148.8	1151.5	1108.0	1096.2	1043.5	1008.1	1001.5	1004.1
15°	1177.8	1181.8	1190.9	1192.2	1190.9	1181.8	1177.8	1156.8	1050.1	1004.1	989.6
17.5°	1185.6	1187.0	1193.6	1193.6	1193.6	1187.0	1185.6	1176.5	1140.9	1079.1	997.5
20°	1179.1	1181.8	1194.9	1197.5	1194.9	1181.8	1179.1	1167.2	1147.5	1125.2	1063.3
22.5°	1176.5	1181.8	1192.2	1190.9	1192.2	1181.8	1176.5	1158.0	1140.9	1125.2	1100.2
25°	1163.3	1163.3	1164.6	1165.9	1164.6	1163.3	1163.3	1148.8	1114.6	1110.6	1096.2
27.5°	1135.6	1138.3	1146.2	1144.9	1146.2	1138.3	1135.6	1130.4	1093.5	1089.6	1079.1
30°	1110.6	1108.0	1101.5	1096.2	1101.5	1108.0	1110.6	1102.8	1065.9	1055.4	1058.1
32.5°	1068.5	1061.9	1055.4	1051.5	1055.4	1061.9	1068.5	1065.9	1038.3	1023.8	1026.5
35°	1018.5	1019.9	1018.5	1014.6	1018.5	1019.9	1018.5	1021.2	1004.1	990.9	989.6
37.5°	983.1	985.6	984.3	979.1	984.3	985.6	983.1	980.4	956.7	952.8	955.4
40°	946.2	947.5	946.2	942.2	946.2	947.5	946.2	940.9	908.1	909.3	918.5
42.5°	910.6	909.3	905.4	902.8	905.4	909.3	910.6	902.8	860.6	856.7	873.8
45°	869.8	871.2	863.2	859.3	863.2	871.2	869.8	864.6	821.2	810.6	822.5
47.5°	829.1	829.1	822.5	818.5	822.5	829.1	829.1	822.5	776.4	765.9	772.5
50°	785.6	784.4	775.1	773.8	775.1	784.4	785.6	781.7	733.0	723.8	723.8
52.5°	735.6	735.6	736.9	739.5	736.9	735.6	735.6	736.9	693.5	684.3	681.7
55°	692.2	693.5	702.7	705.4	702.7	693.5	692.2	692.2	652.7	643.5	638.2
57.5°	647.4	647.4	654.1	654.1	654.1	647.4	647.4	644.8	606.7	598.8	596.1
60°	596.1	598.8	604.0	602.7	604.0	598.8	596.1	593.5	560.5	555.4	546.1
62.5°	542.1	544.8	546.1	543.5	546.1	544.8	542.1	534.3	514.5	510.5	498.7
65°	485.6	488.2	489.5	486.9	489.5	488.2	485.6	481.7	467.1	460.6	450.1
67.5°	427.7	426.4	425.1	430.3	425.1	426.4	427.7	422.4	413.2	408.0	393.4
70°	368.4	368.4	367.1	369.8	367.1	368.4	368.4	364.5	359.3	355.3	342.1
72.5°	305.3	304.0	309.3	305.3	309.3	304.0	305.3	304.0	301.4	297.4	284.3
75°	243.4	246.1	243.4	247.4	243.4	246.1	243.4	244.7	243.4	240.8	231.6
77.5°	185.6	188.1	185.6	185.6	185.6	188.1	185.6	186.8	186.8	186.8	179.0
80°	131.6	130.3	130.3	129.0	130.3	130.3	131.6	131.6	132.9	130.3	127.7
82.5°	84.3	82.9	82.9	85.6	82.9	82.9	84.3	85.6	82.9	82.9	82.9
85°	46.0	47.4	44.7	44.7	44.7	47.4	46.0	43.4	46.0	46.0	44.7
87.5°	17.1	15.8	15.8	15.8	15.8	15.8	17.1	18.4	18.4	18.4	19.7
90°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1
92.5°	78.7	75.6	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7
95°	267.2	257.8	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6
97.5°	616.8	598.8	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2
100°	866.2	844.7	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7
102.5°	1079.2	1060.7	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9
105°	1327.8	1317.9	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2
107.5°	1457.0	1459.4	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7
110°	1490.1	1500.5	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0



TEST NUMBER: P935282

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1469.0	1484.8	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9
115°	1397.4	1419.3	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2
117.5°	1298.4	1322.7	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2
120°	1231.7	1255.4	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1
122.5°	1164.9	1188.2	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9
125°	1076.7	1098.2	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3
127.5°	1005.9	1024.0	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8
130°	961.1	977.9	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8
132.5°	923.0	938.0	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3
135°	869.1	882.1	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8
137.5°	829.4	839.9	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3
140°	797.5	807.4	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9
142.5°	775.1	783.7	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0
145°	741.5	748.0	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1
147.5°	713.4	718.8	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1
150°	697.2	701.5	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3
152.5°	684.4	687.6	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6
155°	669.0	671.2	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7
157.5°	655.8	657.3	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7
160°	649.2	650.1	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1
162.5°	642.9	643.7	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6
165°	633.5	634.4	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7
167.5°	629.3	629.7	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0
170°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4
172.5°	626.0	625.7	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3
177.5°	620.6	620.2	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935282

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1373.9	1380.5	1384.3	1389.6	1402.8
5°	1321.2	1346.2	1354.2	1373.9	1397.6
7.5°	1205.5	1281.8	1302.8	1350.2	1387.0
10°	1093.5	1169.9	1206.8	1318.6	1373.9
12.5°	1036.9	1081.8	1106.8	1263.3	1355.5
15°	1001.5	1033.1	1051.5	1189.6	1334.3
17.5°	973.8	996.2	1009.3	1117.2	1305.5
20°	956.7	967.2	979.1	1064.6	1272.5
22.5°	944.8	938.2	947.5	1027.8	1227.8
25°	936.9	911.9	922.5	998.8	1175.2
27.5°	943.5	888.2	892.2	972.5	1119.9
30°	944.8	859.3	860.6	944.8	1058.1
32.5°	935.6	829.1	830.4	910.6	988.2
35°	913.2	793.5	792.2	871.2	893.5
37.5°	883.0	755.4	755.4	827.8	789.5
40°	846.2	717.2	721.1	771.1	697.5
42.5°	801.4	676.4	681.7	696.1	629.1
45°	752.7	636.9	640.8	588.2	576.4
47.5°	698.8	596.1	597.4	488.2	559.3
50°	634.3	554.0	548.8	418.5	558.0
52.5°	577.7	508.0	492.1	379.0	506.7
55°	522.4	459.3	425.1	348.7	469.8
57.5°	473.7	396.1	363.2	313.2	461.9
60°	429.0	334.3	309.3	275.0	423.7
62.5°	392.1	288.2	283.0	248.7	384.3
65°	352.7	256.6	255.3	226.4	326.4
67.5°	314.5	235.6	234.3	205.3	248.7
70°	273.7	213.1	210.6	183.0	184.3
72.5°	231.6	188.1	185.6	164.5	152.7
75°	189.5	159.3	157.9	143.4	123.7
77.5°	148.7	126.3	129.0	115.8	90.8
80°	106.6	92.1	94.7	82.9	68.4
82.5°	71.0	60.6	63.1	52.6	46.0
85°	39.4	34.3	35.6	27.6	21.0
87.5°	18.4	15.8	15.8	10.6	6.6
90°	18.2	11.6	10.8	7.5	4.2
92.5°	112.4	80.0	72.9	44.7	16.5
95°	276.6	155.8	142.9	91.3	39.7
97.5°	372.6	171.1	159.8	114.2	68.7
100°	407.6	184.0	173.6	132.4	91.1
102.5°	423.6	196.8	187.1	148.7	110.2
105°	435.5	215.8	207.7	175.1	142.5
107.5°	437.6	244.0	236.5	206.1	175.7
110°	434.3	259.8	252.9	225.5	198.0



TEST NUMBER: P935282

CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	434.5	278.8	272.2	246.1	220.0
115°	438.4	307.4	301.3	277.2	253.1
117.5°	446.6	335.2	329.7	307.8	285.9
120°	453.2	351.3	346.1	325.5	304.9
122.5°	462.7	370.4	365.2	344.4	323.6
125°	475.6	394.8	390.0	371.1	352.2
127.5°	488.4	418.4	413.6	394.4	375.3
130°	497.8	434.2	429.0	408.4	387.7
132.5°	505.4	447.0	441.8	421.2	400.6
135°	513.7	461.9	457.3	438.4	419.7
137.5°	526.1	481.0	476.3	457.8	439.1
140°	533.8	493.8	489.5	472.4	455.3
142.5°	540.1	503.4	499.4	483.6	467.7
145°	548.4	517.8	514.3	500.6	486.7
147.5°	560.5	536.0	532.7	519.3	505.9
150°	566.9	545.6	542.5	530.4	518.2
152.5°	571.0	551.8	549.5	540.2	531.1
155°	580.2	565.5	563.8	557.0	550.2
157.5°	589.2	579.2	577.5	570.9	564.2
160°	593.4	585.3	584.1	579.0	573.8
162.5°	597.8	592.0	591.0	587.1	583.3
165°	604.2	601.5	600.6	597.1	593.6
167.5°	609.2	607.0	606.6	604.9	603.2
170°	613.2	613.1	612.7	611.0	609.5
172.5°	613.5	613.5	613.4	613.1	612.7
175°	616.0	617.3	617.3	617.3	617.3
177.5°	616.3	617.3	617.3	617.3	617.3
180°	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935282
 CATALOG NUMBER: SQ4-FA-100U-100D-B2750-1D-UNV-STD-W-4-2700K

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	13.44	14.28	14.42	15.27	16.57	16.23	17.07	17.21	18.07	19.37
	3H	13.91	14.66	14.90	15.66	16.99	17.57	18.32	18.56	19.32	20.65
	4H	14.10	14.81	15.11	15.82	17.16	18.00	18.72	19.01	19.72	21.06
	6H	14.22	14.88	15.23	15.88	17.23	18.28	18.94	19.29	19.95	21.30
	8H	14.22	14.84	15.24	15.87	17.22	18.35	18.97	19.37	20.00	21.35
	12H	14.19	14.78	15.22	15.80	17.17	18.38	18.98	19.41	20.00	21.37
4H	2H	14.46	15.17	15.47	16.17	17.51	16.64	17.35	17.65	18.36	19.70
	3H	15.48	16.08	16.50	17.11	18.46	18.14	18.73	19.15	19.76	21.11
	4H	15.76	16.30	16.78	17.33	18.70	18.66	19.20	19.68	20.22	21.60
	6H	15.88	16.35	16.92	17.40	18.77	19.01	19.48	20.05	20.53	21.90
	8H	15.89	16.32	16.93	17.37	18.75	19.11	19.55	20.15	20.59	21.98
	12H	15.85	16.25	16.91	17.30	18.69	19.16	19.56	20.22	20.62	22.01
8H	4H	16.21	16.64	17.24	17.68	19.07	18.78	19.22	19.82	20.26	21.64
	6H	16.47	16.83	17.53	17.91	19.29	19.21	19.57	20.27	20.65	22.03
	8H	16.51	16.82	17.58	17.89	19.29	19.35	19.67	20.42	20.74	22.14
	12H	16.49	16.77	17.56	17.83	19.28	19.45	19.72	20.52	20.79	22.23
12H	4H	16.21	16.60	17.27	17.66	19.05	18.74	19.14	19.80	20.19	21.58
	6H	16.52	16.84	17.59	17.91	19.31	19.20	19.52	20.27	20.59	21.99
	8H	16.59	16.87	17.66	17.93	19.38	19.36	19.64	20.43	20.70	22.15