

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: P934482

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

**Test Information**

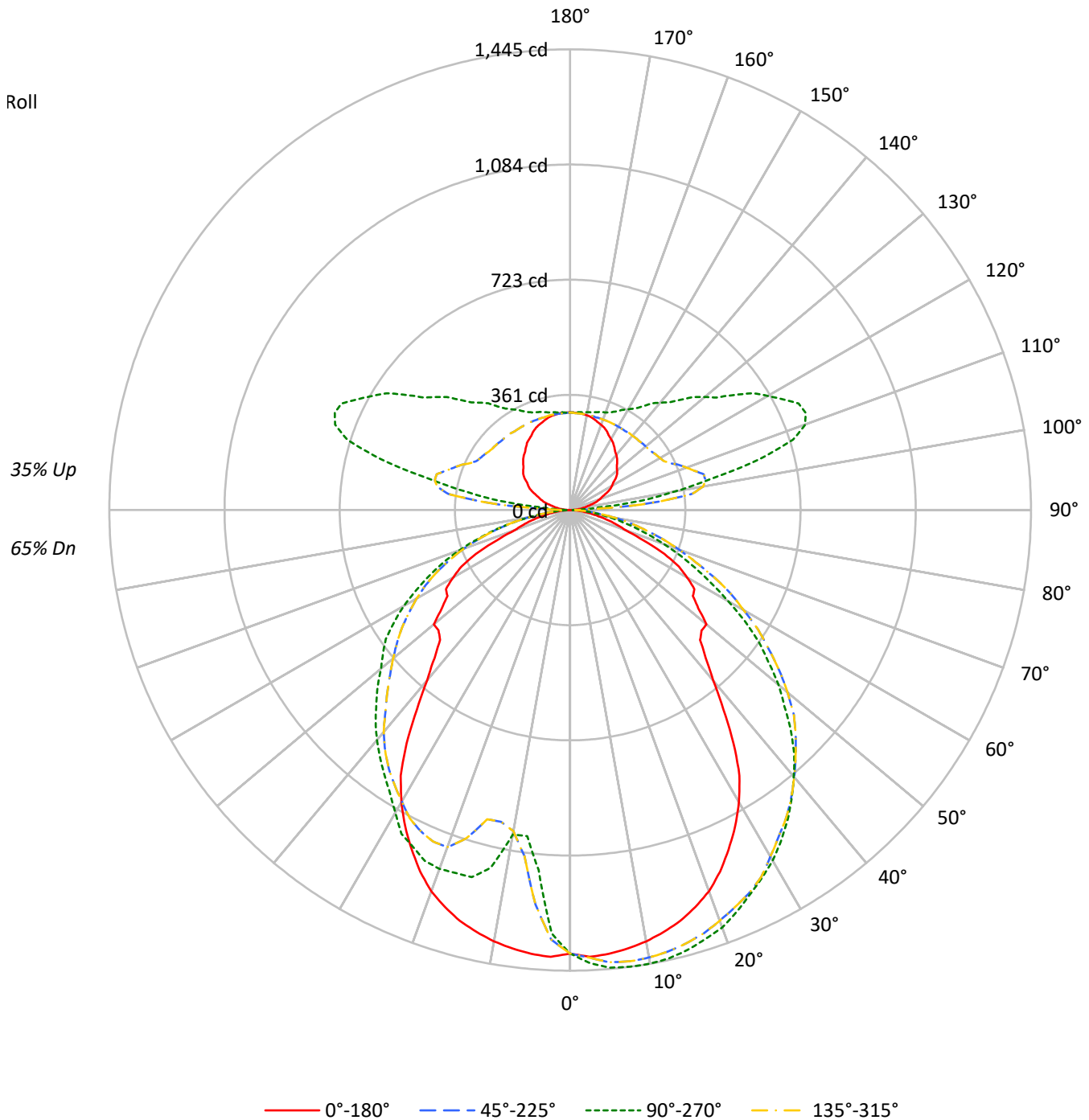
Test Method: LM-79-2019  
Report Number: P934482  
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-4-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5590.5 lumens  
Efficiency: N/A  
Efficacy: 123.7 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: Semi-Direct  
  
Input Watts (W): 45.2  
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: P934482  
CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-4-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P934482

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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	69	69	69	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	62	60	59	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	48	45	42	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	43	39	36	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	25	21	18	16

**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	2.2
10°-20°	356.5	6.4
20°-30°	551.1	9.9
30°-40°	657.9	11.8
40°-50°	661.7	11.8
50°-60°	575.8	10.3
60°-70°	408.2	7.3
70°-80°	216.0	3.9
80°-90°	55.0	1.0
90°-100°	149.1	2.7
100°-110°	392.0	7.0
110°-120°	406.4	7.3
120°-130°	326.0	5.8
130°-140°	255.8	4.6
140°-150°	196.3	3.5
150°-160°	141.4	2.5
160°-170°	86.5	1.5
170°-180°	29.2	0.5
0°-30°	1033.1	18.5
0°-40°	1691.0	30.2
0°-60°	2928.5	52.4
0°-90°	3607.7	64.5
90°-120°	947.5	16.9
90°-150°	1725.7	30.9
90°-180°	1983.0	35.5
0°-180°	5590.5	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°	2	8	2	8	2	3
95°	20	90	20	90	20	22
105°	71	614	71	614	71	75
115°	125	790	125	790	125	124
125°	174	629	174	629	174	155
135°	208	488	208	488	208	161
145°	241	396	241	396	241	151
155°	273	341	273	341	273	125
165°	294	318	294	318	294	83
175°	306	308	306	308	306	29
180°	306	306	306	306	306	



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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°	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4	7.8	7.8
92.5°	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3	39.0	37.4
95°	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8	132.4	127.7
97.5°	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9	305.7	296.7
100°	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4	429.3	418.6
102.5°	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4	534.8	525.6
105°	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1	658.0	653.1
107.5°	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6	722.0	723.2
110°	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7	738.4	743.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5	728.0	735.8
115°	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3	692.4	703.3
117.5°	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4	643.3	655.4
120°	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4	610.3	622.1
122.5°	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8	577.3	588.8
125°	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9	533.6	544.2
127.5°	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0	498.4	507.4
130°	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8	476.3	484.6
132.5°	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7	457.4	464.8
135°	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0	430.7	437.0
137.5°	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8	410.9	416.2
140°	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8	395.2	400.1
142.5°	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4	384.1	388.2
145°	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6	367.4	370.6
147.5°	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3	353.5	356.2
150°	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0	345.5	347.7
152.5°	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8	339.1	340.7
155°	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7	331.6	332.7
157.5°	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3	325.0	325.8
160°	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1	321.7	322.1
162.5°	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0	318.6	319.0
165°	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9	313.8	314.2
167.5°	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3	311.8	312.0
170°	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3	311.8	311.8
172.5°	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1	310.2	310.0
175°	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7	308.0	308.0
177.5°	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6	307.6	307.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



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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°	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4	9.1	5.8
92.5°	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1	55.7	39.6
95°	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8	137.0	77.2
97.5°	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7	184.6	84.8
100°	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6	201.9	91.1
102.5°	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7	209.9	97.5
105°	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9	215.7	107.0
107.5°	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8	216.8	120.9
110°	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6	215.2	128.7





TEST NUMBER: P934482

CATALOG NUMBER: SQ4-FA-050U-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°	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1	215.2	138.1
115°	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8	217.2	152.3
117.5°	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9	221.3	166.0
120°	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9	224.6	174.1
122.5°	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3	229.3	183.6
125°	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0	235.7	195.6
127.5°	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3	242.0	207.4
130°	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7	246.7	215.1
132.5°	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0	250.5	221.5
135°	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7	254.6	228.9
137.5°	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5	260.8	238.3
140°	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8	264.4	244.7
142.5°	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8	267.6	249.4
145°	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9	271.7	256.6
147.5°	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9	277.8	265.6
150°	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9	280.9	270.3
152.5°	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6	283.0	273.4
155°	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1	287.4	280.2
157.5°	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6	291.9	286.9
160°	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3	294.0	290.0
162.5°	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1	296.2	293.3
165°	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1	299.4	298.1
167.5°	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3	301.8	300.7
170°	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0	303.9	303.8
172.5°	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4	305.3	305.9
177.5°	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8	305.4	305.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934482

CATALOG NUMBER: SQ4-FA-050U-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°	5.4	3.7	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4
92.5°	36.2	22.1	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3
95°	70.8	45.2	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8
97.5°	79.1	56.6	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9
100°	86.1	65.5	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4
102.5°	92.7	73.7	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4
105°	102.9	86.8	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1
107.5°	117.1	102.1	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6
110°	125.3	111.7	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7



TEST NUMBER: P934482

CATALOG NUMBER: SQ4-FA-050U-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°	134.9	121.9	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5
115°	149.3	137.3	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3
117.5°	163.3	152.5	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4
120°	171.5	161.4	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4
122.5°	181.0	170.7	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8
125°	193.2	183.9	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9
127.5°	205.0	195.5	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0
130°	212.5	202.4	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8
132.5°	218.9	208.8	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7
135°	226.6	217.2	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0
137.5°	236.1	226.8	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8
140°	242.6	234.1	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8
142.5°	247.4	239.6	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4
145°	254.9	248.0	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6
147.5°	263.9	257.4	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3
150°	268.8	262.7	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0
152.5°	272.3	267.7	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8
155°	279.4	276.0	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7
157.5°	286.2	282.9	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3
160°	289.4	286.8	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1
162.5°	292.8	290.9	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0
165°	297.7	295.9	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9
167.5°	300.5	299.7	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3
170°	303.6	302.8	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3
172.5°	304.0	303.8	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1
175°	305.9	305.9	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7
177.5°	305.9	305.9	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934482

CATALOG NUMBER: SQ4-FA-050U-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°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4
92.5°	39.0	37.4	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1
95°	132.4	127.7	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8
97.5°	305.7	296.7	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7
100°	429.3	418.6	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6
102.5°	534.8	525.6	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7
105°	658.0	653.1	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9
107.5°	722.0	723.2	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8
110°	738.4	743.5	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6



TEST NUMBER: P934482

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	728.0	735.8	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1
115°	692.4	703.3	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8
117.5°	643.3	655.4	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9
120°	610.3	622.1	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9
122.5°	577.3	588.8	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3
125°	533.6	544.2	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0
127.5°	498.4	507.4	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3
130°	476.3	484.6	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7
132.5°	457.4	464.8	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0
135°	430.7	437.0	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7
137.5°	410.9	416.2	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5
140°	395.2	400.1	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8
142.5°	384.1	388.2	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8
145°	367.4	370.6	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9
147.5°	353.5	356.2	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9
150°	345.5	347.7	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9
152.5°	339.1	340.7	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6
155°	331.6	332.7	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1
157.5°	325.0	325.8	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6
160°	321.7	322.1	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3
162.5°	318.6	319.0	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1
165°	313.8	314.2	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1
167.5°	311.8	312.0	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3
170°	311.8	311.8	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0
172.5°	310.2	310.0	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4
177.5°	307.6	307.4	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934482

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**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°	9.1	5.8	5.4	3.7	2.1
92.5°	55.7	39.6	36.2	22.1	8.2
95°	137.0	77.2	70.8	45.2	19.7
97.5°	184.6	84.8	79.1	56.6	34.1
100°	201.9	91.1	86.1	65.5	45.1
102.5°	209.9	97.5	92.7	73.7	54.6
105°	215.7	107.0	102.9	86.8	70.6
107.5°	216.8	120.9	117.1	102.1	87.1
110°	215.2	128.7	125.3	111.7	98.1



TEST NUMBER: P934482

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	215.2	138.1	134.9	121.9	109.0
115°	217.2	152.3	149.3	137.3	125.4
117.5°	221.3	166.0	163.3	152.5	141.6
120°	224.6	174.1	171.5	161.4	151.1
122.5°	229.3	183.6	181.0	170.7	160.4
125°	235.7	195.6	193.2	183.9	174.5
127.5°	242.0	207.4	205.0	195.5	186.0
130°	246.7	215.1	212.5	202.4	192.1
132.5°	250.5	221.5	218.9	208.8	198.5
135°	254.6	228.9	226.6	217.2	208.0
137.5°	260.8	238.3	236.1	226.8	217.6
140°	264.4	244.7	242.6	234.1	225.6
142.5°	267.6	249.4	247.4	239.6	231.8
145°	271.7	256.6	254.9	248.0	241.2
147.5°	277.8	265.6	263.9	257.4	250.7
150°	280.9	270.3	268.8	262.7	256.8
152.5°	283.0	273.4	272.3	267.7	263.1
155°	287.4	280.2	279.4	276.0	272.6
157.5°	291.9	286.9	286.2	282.9	279.6
160°	294.0	290.0	289.4	286.8	284.4
162.5°	296.2	293.3	292.8	290.9	289.0
165°	299.4	298.1	297.7	295.9	294.2
167.5°	301.8	300.7	300.5	299.7	298.9
170°	303.9	303.8	303.6	302.8	302.0
172.5°	304.0	304.0	304.0	303.8	303.6
175°	305.3	305.9	305.9	305.9	305.9
177.5°	305.4	305.9	305.9	305.9	305.9
180°	305.9	305.9	305.9	305.9	305.9



TEST NUMBER: P934482  
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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	14.92	15.93	15.74	16.78	17.82	17.72	18.73	18.54	19.57	20.62
	3H	15.41	16.32	16.25	17.17	18.25	19.07	19.97	19.90	20.83	21.90
	4H	15.61	16.46	16.46	17.33	18.41	19.51	20.37	20.36	21.23	22.31
	6H	15.74	16.52	16.60	17.39	18.49	19.80	20.59	20.66	21.45	22.55
	8H	15.74	16.49	16.61	17.38	18.48	19.87	20.62	20.74	21.51	22.61
	12H	15.72	16.43	16.60	17.31	18.44	19.91	20.63	20.79	21.51	22.63
4H	2H	15.97	16.82	16.82	17.68	18.77	18.15	19.00	19.01	19.87	20.95
	3H	17.01	17.72	17.87	18.61	19.71	19.66	20.37	20.53	21.27	22.37
	4H	17.29	17.94	18.17	18.83	19.96	20.19	20.84	21.07	21.73	22.85
	6H	17.42	17.98	18.32	18.90	20.03	20.55	21.11	21.45	22.03	23.16
	8H	17.43	17.96	18.33	18.86	20.01	20.66	21.18	21.56	22.09	23.23
	12H	17.41	17.88	18.32	18.81	19.95	20.72	21.19	21.63	22.12	23.27
8H	4H	17.75	18.27	18.65	19.18	20.33	20.32	20.85	21.22	21.76	22.90
	6H	18.02	18.45	18.94	19.40	20.54	20.76	21.19	21.68	22.14	23.29
	8H	18.06	18.44	19.00	19.39	20.55	20.91	21.29	21.84	22.23	23.39
	12H	18.05	18.39	18.99	19.32	20.54	21.01	21.34	21.94	22.28	23.49
12H	4H	17.76	18.23	18.68	19.16	20.31	20.30	20.77	21.21	21.70	22.84
	6H	18.08	18.46	19.01	19.40	20.56	20.76	21.14	21.69	22.08	23.24
	8H	18.15	18.49	19.09	19.42	20.63	20.92	21.26	21.86	22.19	23.40