

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: P934882

Luminaire Tested: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934882
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-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: -

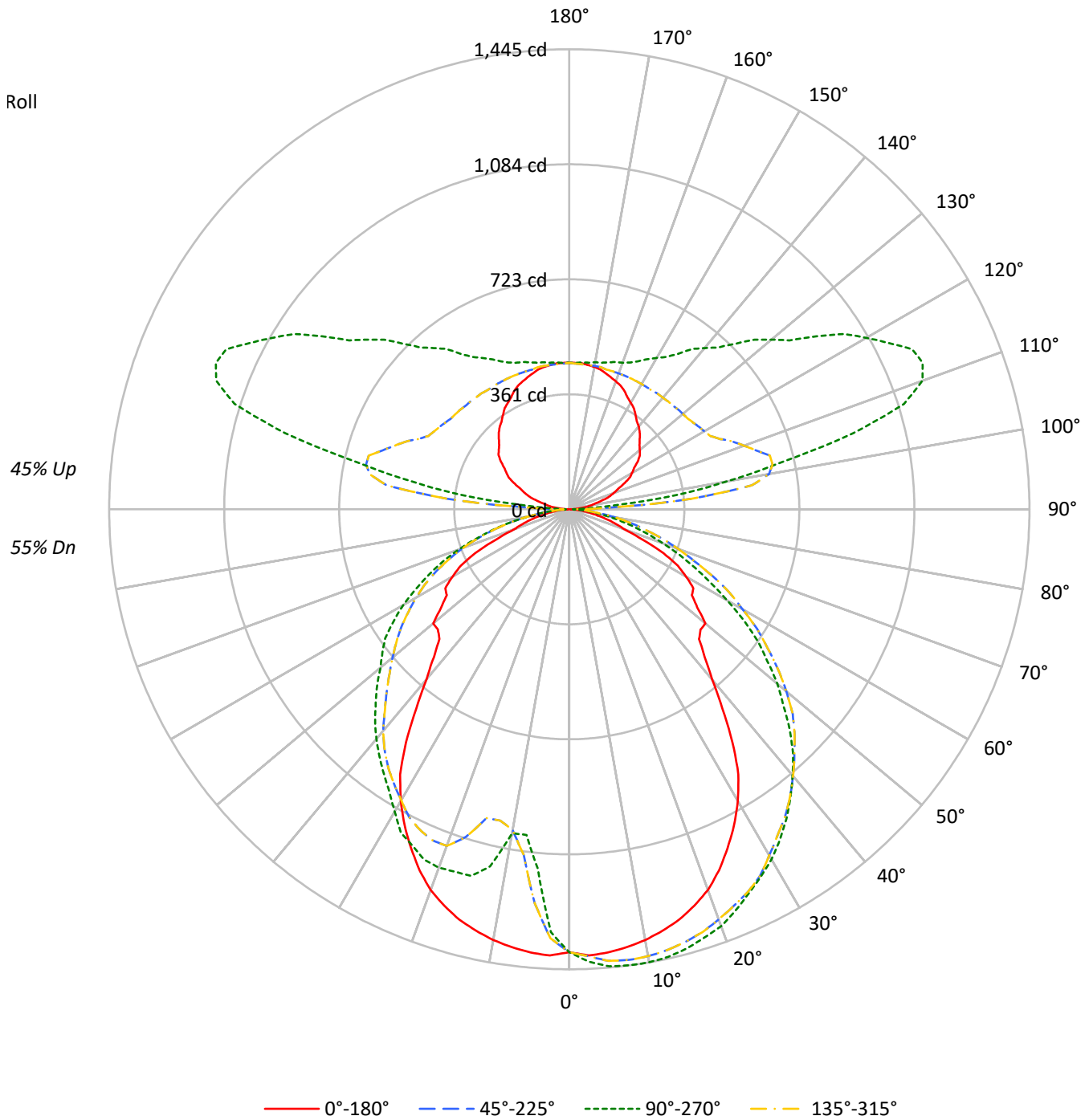
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6590.6 lumens
Efficiency: N/A
Efficacy: 128.7 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: General Diffuse

Input Watts (W): 51.2
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

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CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-2700K

Luminous Intensity Polar Plot





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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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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	1.9
10°-20°	356.5	5.4
20°-30°	551.1	8.4
30°-40°	657.9	10.0
40°-50°	661.7	10.0
50°-60°	575.8	8.7
60°-70°	408.2	6.2
70°-80°	216.0	3.3
80°-90°	55.6	0.8
90°-100°	224.3	3.4
100°-110°	589.6	8.9
110°-120°	611.3	9.3
120°-130°	490.4	7.4
130°-140°	384.8	5.8
140°-150°	295.3	4.5
150°-160°	212.7	3.2
160°-170°	130.1	2.0
170°-180°	44.0	0.7
0°-30°	1033.1	15.7
0°-40°	1691.0	25.7
0°-60°	2928.5	44.4
0°-90°	3608.3	54.7
90°-120°	1425.1	21.6
90°-150°	2595.5	39.4
90°-180°	2982.0	45.2
0°-180°	6590.6	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°	3	12	3	12	3	3
95°	30	136	30	136	30	33
105°	106	923	106	923	106	113
115°	189	1189	189	1189	189	186
125°	262	947	262	947	262	233
135°	313	735	313	735	313	242
145°	363	596	363	596	363	227
155°	410	513	410	513	410	188
165°	442	478	442	478	442	125
175°	460	463	460	463	460	44
180°	460	460	460	460	460	



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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°	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6	11.8	11.8
92.5°	12.4	33.4	54.3	59.6	83.8	116.0	132.2	115.8	83.2	58.7	56.4
95°	29.7	68.1	106.6	116.1	206.2	326.2	386.2	344.6	261.4	199.1	192.0
97.5°	51.3	85.2	119.0	127.5	277.7	477.9	578.0	551.7	499.2	459.8	446.3
100°	67.9	98.6	129.4	137.0	303.7	525.9	636.9	638.8	642.7	645.6	629.6
102.5°	82.2	110.9	139.4	146.6	315.6	541.0	653.7	687.1	754.1	804.3	790.5
105°	106.2	130.5	154.8	160.9	324.5	542.7	651.8	726.9	877.0	989.5	982.2
107.5°	130.9	153.6	176.2	181.9	326.2	518.5	614.7	719.4	928.8	1085.8	1087.6
110°	147.6	168.0	188.5	193.6	323.7	497.1	583.9	700.9	934.9	1110.5	1118.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	163.9	183.5	202.9	207.8	323.8	478.5	555.8	675.6	915.1	1094.8	1106.7
115°	188.6	206.6	224.6	229.1	326.8	457.0	522.1	637.5	868.3	1041.4	1057.8
117.5°	213.0	229.4	245.7	249.8	332.9	443.5	498.9	603.1	811.3	967.6	985.7
120°	227.3	242.6	258.0	261.8	337.7	439.0	489.6	584.9	775.2	917.9	935.5
122.5°	241.1	256.7	272.1	276.0	344.8	436.6	482.6	568.2	739.6	868.2	885.6
125°	262.4	276.6	290.7	294.2	354.5	434.8	474.9	547.7	693.3	802.5	818.5
127.5°	279.8	294.0	308.3	311.8	364.0	433.7	468.4	531.0	656.0	749.7	763.2
130°	289.0	304.4	319.7	323.6	371.0	434.3	465.9	521.6	632.9	716.3	728.8
132.5°	298.6	313.9	329.3	333.2	376.7	434.8	463.7	513.5	613.2	687.9	699.1
135°	312.7	326.7	340.7	344.2	382.9	434.4	460.1	501.8	585.2	647.8	657.5
137.5°	327.3	341.1	355.0	358.5	392.1	437.0	459.5	494.7	565.2	618.1	626.0
140°	339.3	352.1	364.8	368.0	397.8	437.4	457.3	487.7	548.6	594.3	601.7
142.5°	348.6	360.4	372.1	375.1	402.5	439.0	457.3	484.1	537.5	577.7	584.1
145°	362.7	373.1	383.4	386.0	408.7	439.0	454.2	476.1	519.8	552.7	557.5
147.5°	377.0	386.9	397.0	399.5	417.7	442.0	454.2	471.4	505.9	531.7	535.6
150°	386.2	395.3	404.4	406.7	422.5	443.6	454.2	468.7	497.8	519.6	522.8
152.5°	395.8	402.7	409.6	411.2	425.6	444.6	454.2	466.6	491.4	510.1	512.4
155°	410.1	415.1	420.1	421.4	432.4	446.9	454.2	464.0	483.8	498.6	500.2
157.5°	420.5	425.5	430.5	431.7	439.1	449.2	454.2	461.8	477.2	488.7	489.8
160°	427.6	431.5	435.3	436.2	442.2	450.2	454.2	460.7	474.0	483.9	484.5
162.5°	434.8	437.6	440.5	441.2	445.5	451.3	454.2	459.8	470.8	479.2	479.8
165°	442.4	445.0	447.6	448.3	450.3	452.9	454.2	458.2	466.1	472.1	472.8
167.5°	449.5	450.7	452.0	452.3	454.0	456.2	457.3	459.9	465.1	469.0	469.3
170°	454.2	455.4	456.7	457.0	457.1	457.2	457.3	459.9	465.1	469.0	469.0
172.5°	456.7	457.0	457.2	457.3	457.3	457.3	457.3	459.4	463.4	466.5	466.3
175°	460.1	460.1	460.1	460.1	459.2	457.9	457.3	458.6	461.1	463.1	463.1
177.5°	460.1	460.1	460.1	460.1	459.4	458.4	457.9	458.9	460.9	462.5	462.2
180°	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1



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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°	11.8	11.8	11.8	11.8	11.8	15.6	20.9	23.5	20.2	13.6	8.7
92.5°	47.0	37.6	47.0	56.4	58.7	83.2	115.8	132.2	116.0	83.8	59.6
95°	163.8	135.6	163.8	192.0	199.1	261.4	344.6	386.2	326.2	206.2	116.1
97.5°	392.5	338.7	392.5	446.3	459.8	499.2	551.7	578.0	477.9	277.7	127.5
100°	565.5	501.4	565.5	629.6	645.6	642.7	638.8	636.9	525.9	303.7	137.0
102.5°	735.6	680.8	735.6	790.5	804.3	754.1	687.1	653.7	541.0	315.6	146.6
105°	952.7	923.2	952.7	982.2	989.5	877.0	726.9	651.8	542.7	324.5	160.9
107.5°	1094.8	1102.0	1094.8	1087.6	1085.8	928.8	719.4	614.7	518.5	326.2	181.9
110°	1149.0	1179.8	1149.0	1118.2	1110.5	934.9	700.9	583.9	497.1	323.7	193.6



TEST NUMBER: P934882

CATALOG NUMBER: SQ4-FA-075U-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°	1153.9	1201.1	1153.9	1106.7	1094.8	915.1	675.6	555.8	478.5	323.8	207.8
115°	1123.3	1188.7	1123.3	1057.8	1041.4	868.3	637.5	522.1	457.0	326.8	229.1
117.5°	1058.3	1131.0	1058.3	985.7	967.6	811.3	603.1	498.9	443.5	332.9	249.8
120°	1006.1	1076.6	1006.1	935.5	917.9	775.2	584.9	489.6	439.0	337.7	261.8
122.5°	955.2	1024.8	955.2	885.6	868.2	739.6	568.2	482.6	436.6	344.8	276.0
125°	882.6	946.6	882.6	818.5	802.5	693.3	547.7	474.9	434.8	354.5	294.2
127.5°	817.2	871.3	817.2	763.2	749.7	656.0	531.0	468.4	433.7	364.0	311.8
130°	778.8	828.7	778.8	728.8	716.3	632.9	521.6	465.9	434.3	371.0	323.6
132.5°	743.8	788.5	743.8	699.1	687.9	613.2	513.5	463.7	434.8	376.7	333.2
135°	696.0	734.6	696.0	657.5	647.8	585.2	501.8	460.1	434.4	382.9	344.2
137.5°	657.6	689.1	657.6	626.0	618.1	565.2	494.7	459.5	437.0	392.1	358.5
140°	631.3	660.7	631.3	601.7	594.3	548.6	487.7	457.3	437.4	397.8	368.0
142.5°	609.4	634.8	609.4	584.1	577.7	537.5	484.1	457.3	439.0	402.5	375.1
145°	576.7	595.9	576.7	557.5	552.7	519.8	476.1	454.2	439.0	408.7	386.0
147.5°	551.6	567.5	551.6	535.6	531.7	505.9	471.4	454.2	442.0	417.7	399.5
150°	535.7	548.7	535.7	522.8	519.6	497.8	468.7	454.2	443.6	422.5	406.7
152.5°	522.2	532.0	522.2	512.4	510.1	491.4	466.6	454.2	444.6	425.6	411.2
155°	506.7	513.1	506.7	500.2	498.6	483.8	464.0	454.2	446.9	432.4	421.4
157.5°	494.4	498.9	494.4	489.8	488.7	477.2	461.8	454.2	449.2	439.1	431.7
160°	487.0	489.6	487.0	484.5	483.9	474.0	460.7	454.2	450.2	442.2	436.2
162.5°	482.3	484.8	482.3	479.8	479.2	470.8	459.8	454.2	451.3	445.5	441.2
165°	475.4	478.0	475.4	472.8	472.1	466.1	458.2	454.2	452.9	450.3	448.3
167.5°	470.4	471.5	470.4	469.3	469.0	465.1	459.9	457.3	456.2	454.0	452.3
170°	469.0	469.0	469.0	469.0	469.0	465.1	459.9	457.3	457.2	457.1	457.0
172.5°	465.3	464.3	465.3	466.3	466.5	463.4	459.4	457.3	457.3	457.3	457.3
175°	463.1	463.1	463.1	463.1	463.1	461.1	458.6	457.3	457.9	459.2	460.1
177.5°	461.1	460.1	461.1	462.2	462.5	460.9	458.9	457.9	458.4	459.4	460.1
180°	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1



TEST NUMBER: P934882

CATALOG NUMBER: SQ4-FA-075U-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°	8.1	5.6	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6
92.5°	54.3	33.4	12.4	33.4	54.3	59.6	83.8	116.0	132.2	115.8	83.2
95°	106.6	68.1	29.7	68.1	106.6	116.1	206.2	326.2	386.2	344.6	261.4
97.5°	119.0	85.2	51.3	85.2	119.0	127.5	277.7	477.9	578.0	551.7	499.2
100°	129.4	98.6	67.9	98.6	129.4	137.0	303.7	525.9	636.9	638.8	642.7
102.5°	139.4	110.9	82.2	110.9	139.4	146.6	315.6	541.0	653.7	687.1	754.1
105°	154.8	130.5	106.2	130.5	154.8	160.9	324.5	542.7	651.8	726.9	877.0
107.5°	176.2	153.6	130.9	153.6	176.2	181.9	326.2	518.5	614.7	719.4	928.8
110°	188.5	168.0	147.6	168.0	188.5	193.6	323.7	497.1	583.9	700.9	934.9



TEST NUMBER: P934882

CATALOG NUMBER: SQ4-FA-075U-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°	202.9	183.5	163.9	183.5	202.9	207.8	323.8	478.5	555.8	675.6	915.1
115°	224.6	206.6	188.6	206.6	224.6	229.1	326.8	457.0	522.1	637.5	868.3
117.5°	245.7	229.4	213.0	229.4	245.7	249.8	332.9	443.5	498.9	603.1	811.3
120°	258.0	242.6	227.3	242.6	258.0	261.8	337.7	439.0	489.6	584.9	775.2
122.5°	272.1	256.7	241.1	256.7	272.1	276.0	344.8	436.6	482.6	568.2	739.6
125°	290.7	276.6	262.4	276.6	290.7	294.2	354.5	434.8	474.9	547.7	693.3
127.5°	308.3	294.0	279.8	294.0	308.3	311.8	364.0	433.7	468.4	531.0	656.0
130°	319.7	304.4	289.0	304.4	319.7	323.6	371.0	434.3	465.9	521.6	632.9
132.5°	329.3	313.9	298.6	313.9	329.3	333.2	376.7	434.8	463.7	513.5	613.2
135°	340.7	326.7	312.7	326.7	340.7	344.2	382.9	434.4	460.1	501.8	585.2
137.5°	355.0	341.1	327.3	341.1	355.0	358.5	392.1	437.0	459.5	494.7	565.2
140°	364.8	352.1	339.3	352.1	364.8	368.0	397.8	437.4	457.3	487.7	548.6
142.5°	372.1	360.4	348.6	360.4	372.1	375.1	402.5	439.0	457.3	484.1	537.5
145°	383.4	373.1	362.7	373.1	383.4	386.0	408.7	439.0	454.2	476.1	519.8
147.5°	397.0	386.9	377.0	386.9	397.0	399.5	417.7	442.0	454.2	471.4	505.9
150°	404.4	395.3	386.2	395.3	404.4	406.7	422.5	443.6	454.2	468.7	497.8
152.5°	409.6	402.7	395.8	402.7	409.6	411.2	425.6	444.6	454.2	466.6	491.4
155°	420.1	415.1	410.1	415.1	420.1	421.4	432.4	446.9	454.2	464.0	483.8
157.5°	430.5	425.5	420.5	425.5	430.5	431.7	439.1	449.2	454.2	461.8	477.2
160°	435.3	431.5	427.6	431.5	435.3	436.2	442.2	450.2	454.2	460.7	474.0
162.5°	440.5	437.6	434.8	437.6	440.5	441.2	445.5	451.3	454.2	459.8	470.8
165°	447.6	445.0	442.4	445.0	447.6	448.3	450.3	452.9	454.2	458.2	466.1
167.5°	452.0	450.7	449.5	450.7	452.0	452.3	454.0	456.2	457.3	459.9	465.1
170°	456.7	455.4	454.2	455.4	456.7	457.0	457.1	457.2	457.3	459.9	465.1
172.5°	457.2	457.0	456.7	457.0	457.2	457.3	457.3	457.3	457.3	459.4	463.4
175°	460.1	460.1	460.1	460.1	460.1	460.1	459.2	457.9	457.3	458.6	461.1
177.5°	460.1	460.1	460.1	460.1	460.1	460.1	459.4	458.4	457.9	458.9	460.9
180°	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1



TEST NUMBER: P934882

CATALOG NUMBER: SQ4-FA-075U-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°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	15.6	20.9	23.5	20.2
92.5°	58.7	56.4	47.0	37.6	47.0	56.4	58.7	83.2	115.8	132.2	116.0
95°	199.1	192.0	163.8	135.6	163.8	192.0	199.1	261.4	344.6	386.2	326.2
97.5°	459.8	446.3	392.5	338.7	392.5	446.3	459.8	499.2	551.7	578.0	477.9
100°	645.6	629.6	565.5	501.4	565.5	629.6	645.6	642.7	638.8	636.9	525.9
102.5°	804.3	790.5	735.6	680.8	735.6	790.5	804.3	754.1	687.1	653.7	541.0
105°	989.5	982.2	952.7	923.2	952.7	982.2	989.5	877.0	726.9	651.8	542.7
107.5°	1085.8	1087.6	1094.8	1102.0	1094.8	1087.6	1085.8	928.8	719.4	614.7	518.5
110°	1110.5	1118.2	1149.0	1179.8	1149.0	1118.2	1110.5	934.9	700.9	583.9	497.1



TEST NUMBER: P934882

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1094.8	1106.7	1153.9	1201.1	1153.9	1106.7	1094.8	915.1	675.6	555.8	478.5
115°	1041.4	1057.8	1123.3	1188.7	1123.3	1057.8	1041.4	868.3	637.5	522.1	457.0
117.5°	967.6	985.7	1058.3	1131.0	1058.3	985.7	967.6	811.3	603.1	498.9	443.5
120°	917.9	935.5	1006.1	1076.6	1006.1	935.5	917.9	775.2	584.9	489.6	439.0
122.5°	868.2	885.6	955.2	1024.8	955.2	885.6	868.2	739.6	568.2	482.6	436.6
125°	802.5	818.5	882.6	946.6	882.6	818.5	802.5	693.3	547.7	474.9	434.8
127.5°	749.7	763.2	817.2	871.3	817.2	763.2	749.7	656.0	531.0	468.4	433.7
130°	716.3	728.8	778.8	828.7	778.8	728.8	716.3	632.9	521.6	465.9	434.3
132.5°	687.9	699.1	743.8	788.5	743.8	699.1	687.9	613.2	513.5	463.7	434.8
135°	647.8	657.5	696.0	734.6	696.0	657.5	647.8	585.2	501.8	460.1	434.4
137.5°	618.1	626.0	657.6	689.1	657.6	626.0	618.1	565.2	494.7	459.5	437.0
140°	594.3	601.7	631.3	660.7	631.3	601.7	594.3	548.6	487.7	457.3	437.4
142.5°	577.7	584.1	609.4	634.8	609.4	584.1	577.7	537.5	484.1	457.3	439.0
145°	552.7	557.5	576.7	595.9	576.7	557.5	552.7	519.8	476.1	454.2	439.0
147.5°	531.7	535.6	551.6	567.5	551.6	535.6	531.7	505.9	471.4	454.2	442.0
150°	519.6	522.8	535.7	548.7	535.7	522.8	519.6	497.8	468.7	454.2	443.6
152.5°	510.1	512.4	522.2	532.0	522.2	512.4	510.1	491.4	466.6	454.2	444.6
155°	498.6	500.2	506.7	513.1	506.7	500.2	498.6	483.8	464.0	454.2	446.9
157.5°	488.7	489.8	494.4	498.9	494.4	489.8	488.7	477.2	461.8	454.2	449.2
160°	483.9	484.5	487.0	489.6	487.0	484.5	483.9	474.0	460.7	454.2	450.2
162.5°	479.2	479.8	482.3	484.8	482.3	479.8	479.2	470.8	459.8	454.2	451.3
165°	472.1	472.8	475.4	478.0	475.4	472.8	472.1	466.1	458.2	454.2	452.9
167.5°	469.0	469.3	470.4	471.5	470.4	469.3	469.0	465.1	459.9	457.3	456.2
170°	469.0	469.0	469.0	469.0	469.0	469.0	469.0	465.1	459.9	457.3	457.2
172.5°	466.5	466.3	465.3	464.3	465.3	466.3	466.5	463.4	459.4	457.3	457.3
175°	463.1	463.1	463.1	463.1	463.1	463.1	463.1	461.1	458.6	457.3	457.9
177.5°	462.5	462.2	461.1	460.1	461.1	462.2	462.5	460.9	458.9	457.9	458.4
180°	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1



TEST NUMBER: P934882

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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°	13.6	8.7	8.1	5.6	3.1
92.5°	83.8	59.6	54.3	33.4	12.4
95°	206.2	116.1	106.6	68.1	29.7
97.5°	277.7	127.5	119.0	85.2	51.3
100°	303.7	137.0	129.4	98.6	67.9
102.5°	315.6	146.6	139.4	110.9	82.2
105°	324.5	160.9	154.8	130.5	106.2
107.5°	326.2	181.9	176.2	153.6	130.9
110°	323.7	193.6	188.5	168.0	147.6



TEST NUMBER: P934882

CATALOG NUMBER: SQ4-FA-075U-100D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	323.8	207.8	202.9	183.5	163.9
115°	326.8	229.1	224.6	206.6	188.6
117.5°	332.9	249.8	245.7	229.4	213.0
120°	337.7	261.8	258.0	242.6	227.3
122.5°	344.8	276.0	272.1	256.7	241.1
125°	354.5	294.2	290.7	276.6	262.4
127.5°	364.0	311.8	308.3	294.0	279.8
130°	371.0	323.6	319.7	304.4	289.0
132.5°	376.7	333.2	329.3	313.9	298.6
135°	382.9	344.2	340.7	326.7	312.7
137.5°	392.1	358.5	355.0	341.1	327.3
140°	397.8	368.0	364.8	352.1	339.3
142.5°	402.5	375.1	372.1	360.4	348.6
145°	408.7	386.0	383.4	373.1	362.7
147.5°	417.7	399.5	397.0	386.9	377.0
150°	422.5	406.7	404.4	395.3	386.2
152.5°	425.6	411.2	409.6	402.7	395.8
155°	432.4	421.4	420.1	415.1	410.1
157.5°	439.1	431.7	430.5	425.5	420.5
160°	442.2	436.2	435.3	431.5	427.6
162.5°	445.5	441.2	440.5	437.6	434.8
165°	450.3	448.3	447.6	445.0	442.4
167.5°	454.0	452.3	452.0	450.7	449.5
170°	457.1	457.0	456.7	455.4	454.2
172.5°	457.3	457.3	457.2	457.0	456.7
175°	459.2	460.1	460.1	460.1	460.1
177.5°	459.4	460.1	460.1	460.1	460.1
180°	460.1	460.1	460.1	460.1	460.1



TEST NUMBER: P934882
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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	14.11	15.01	15.02	15.95	17.15	16.91	17.81	17.82	18.75	19.95
	3H	14.59	15.40	15.52	16.34	17.57	18.24	19.06	19.17	20.00	21.23
	4H	14.78	15.55	15.72	16.50	17.73	18.68	19.45	19.63	20.40	21.64
	6H	14.90	15.61	15.86	16.56	17.81	18.96	19.67	19.92	20.63	21.87
	8H	14.91	15.58	15.87	16.55	17.80	19.04	19.71	20.00	20.68	21.93
	12H	14.88	15.52	15.84	16.48	17.76	19.07	19.71	20.04	20.68	21.95
4H	2H	15.14	15.91	16.09	16.85	18.09	17.32	18.09	18.27	19.04	20.27
	3H	16.17	16.81	17.13	17.79	19.04	18.82	19.46	19.78	20.44	21.69
	4H	16.45	17.03	17.41	18.00	19.28	19.35	19.93	20.31	20.90	22.18
	6H	16.58	17.08	17.56	18.07	19.35	19.71	20.21	20.69	21.20	22.48
	8H	16.58	17.05	17.56	18.04	19.33	19.81	20.28	20.79	21.27	22.56
	12H	16.55	16.98	17.55	17.98	19.27	19.86	20.29	20.86	21.29	22.58
8H	4H	16.90	17.37	17.88	18.36	19.65	19.47	19.94	20.46	20.93	22.22
	6H	17.16	17.55	18.17	18.58	19.87	19.90	20.29	20.91	21.32	22.61
	8H	17.21	17.55	18.22	18.57	19.87	20.05	20.40	21.07	21.41	22.72
	12H	17.19	17.49	18.21	18.51	19.86	20.15	20.45	21.17	21.46	22.81
12H	4H	16.91	17.33	17.91	18.34	19.63	19.44	19.87	20.44	20.87	22.16
	6H	17.22	17.57	18.24	18.58	19.89	19.90	20.25	20.92	21.26	22.57
	8H	17.29	17.59	18.31	18.61	19.95	20.06	20.36	21.08	21.38	22.72