

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: P934082

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

**Test Information**

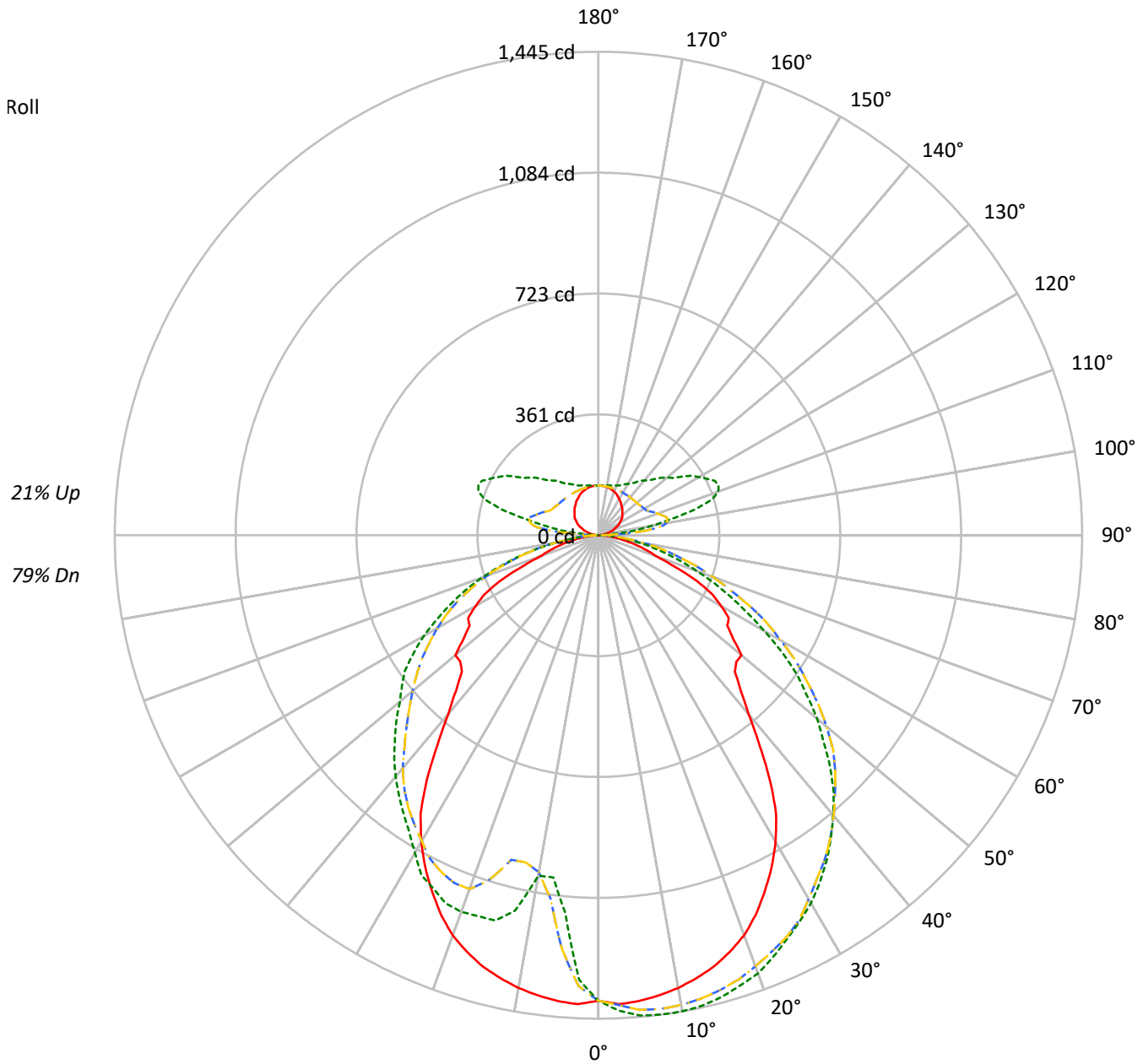
Test Method: LM-79-2019  
Report Number: P934082  
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4570.6 lumens  
Efficiency: N/A  
Efficacy: 117.8 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): 38.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

**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	2.7
10°-20°	356.5	7.8
20°-30°	551.1	12.1
30°-40°	657.9	14.4
40°-50°	661.7	14.5
50°-60°	575.8	12.6
60°-70°	408.2	8.9
70°-80°	216.0	4.7
80°-90°	54.4	1.2
90°-100°	72.5	1.6
100°-110°	190.5	4.2
110°-120°	197.5	4.3
120°-130°	158.4	3.5
130°-140°	124.3	2.7
140°-150°	95.4	2.1
150°-160°	68.7	1.5
160°-170°	42.0	0.9
170°-180°	14.2	0.3
0°-30°	1033.1	22.6
0°-40°	1691.0	37.0
0°-60°	2928.5	64.1
0°-90°	3607.1	78.9
90°-120°	460.5	10.1
90°-150°	838.6	18.3
90°-180°	964.0	21.1
0°-180°	4570.6	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°	1	4	1	4	1	2
95°	10	44	10	44	10	11
105°	34	298	34	298	34	36
115°	61	384	61	384	61	60
125°	85	306	85	306	85	75
135°	101	237	101	237	101	78
145°	117	192	117	192	117	73
155°	132	166	132	166	132	61
165°	143	154	143	154	143	40
175°	149	150	149	150	149	14
180°	149	149	149	149	149	



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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°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9	18.9	18.1
95°	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5	64.3	62.1
97.5°	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3	148.5	144.1
100°	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7	208.6	203.4
102.5°	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6	259.9	255.4
105°	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4	319.7	317.3
107.5°	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1	350.9	351.5
110°	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1	358.9	361.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7	353.8	357.6
115°	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6	336.4	341.7
117.5°	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1	312.6	318.5
120°	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5	296.6	302.3
122.5°	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9	280.5	286.1
125°	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0	259.3	264.4
127.5°	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9	242.2	246.6
130°	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5	231.5	235.5
132.5°	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1	222.3	225.9
135°	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0	209.3	212.3
137.5°	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6	199.7	202.3
140°	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3	192.0	194.4
142.5°	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7	186.7	188.7
145°	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9	178.6	180.2
147.5°	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4	171.8	173.1
150°	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9	167.9	168.9
152.5°	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8	164.8	165.6
155°	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4	161.2	161.7
157.5°	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2	157.9	158.3
160°	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1	156.3	156.5
162.5°	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1	154.8	155.0
165°	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6	152.5	152.7
167.5°	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2	151.5	151.6
170°	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2	151.5	151.5
172.5°	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7	150.7	150.6
175°	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0	149.6	149.6
177.5°	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9	149.4	149.3
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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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°	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5	4.4	2.8
92.5°	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5	27.1	19.2
95°	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4	66.6	37.5
97.5°	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4	89.7	41.2
100°	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9	98.1	44.3
102.5°	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8	102.0	47.4
105°	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3	104.9	52.0
107.5°	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5	105.4	58.8
110°	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7	104.6	62.5





TEST NUMBER: P934082

CATALOG NUMBER: SQ4-FA-025U-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°	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6	104.6	67.1
115°	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7	105.6	74.0
117.5°	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3	107.6	80.7
120°	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8	109.1	84.6
122.5°	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0	111.4	89.1
125°	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4	114.5	95.1
127.5°	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0	117.6	100.8
130°	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3	119.9	104.6
132.5°	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4	121.7	107.7
135°	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3	123.7	111.3
137.5°	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1	126.7	115.8
140°	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3	128.5	118.9
142.5°	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8	130.1	121.2
145°	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8	132.1	124.7
147.5°	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8	135.0	129.1
150°	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3	136.5	131.4
152.5°	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6	137.4	132.9
155°	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3	139.6	136.2
157.5°	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1	141.8	139.4
160°	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4	142.8	140.9
162.5°	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8	143.9	142.5
165°	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3	145.4	144.8
167.5°	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3	146.6	146.1
170°	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7	147.6	147.6
172.5°	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9	148.3	148.6
177.5°	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1	148.4	148.6
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P934082

CATALOG NUMBER: SQ4-FA-025U-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°	2.6	1.8	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1
92.5°	17.5	10.8	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9
95°	34.5	22.0	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5
97.5°	38.4	27.5	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3
100°	41.8	31.9	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7
102.5°	45.1	35.8	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6
105°	50.0	42.2	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4
107.5°	57.0	49.6	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1
110°	60.9	54.3	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1



TEST NUMBER: P934082

CATALOG NUMBER: SQ4-FA-025U-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°	65.5	59.3	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7
115°	72.5	66.7	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6
117.5°	79.4	74.1	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1
120°	83.4	78.4	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5
122.5°	87.8	82.9	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9
125°	93.9	89.3	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0
127.5°	99.6	95.0	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9
130°	103.3	98.3	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5
132.5°	106.5	101.5	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1
135°	110.2	105.6	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0
137.5°	114.7	110.3	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6
140°	117.9	113.7	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3
142.5°	120.2	116.4	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7
145°	123.9	120.5	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9
147.5°	128.3	125.0	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4
150°	130.7	127.7	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9
152.5°	132.3	130.1	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8
155°	135.8	134.1	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4
157.5°	139.0	137.4	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2
160°	140.6	139.3	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1
162.5°	142.3	141.3	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1
165°	144.6	143.7	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6
167.5°	146.0	145.6	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2
170°	147.5	147.1	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2
172.5°	147.7	147.6	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7
175°	148.6	148.6	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0
177.5°	148.6	148.6	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P934082

CATALOG NUMBER: SQ4-FA-025U-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5
92.5°	18.9	18.1	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5
95°	64.3	62.1	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4
97.5°	148.5	144.1	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4
100°	208.6	203.4	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9
102.5°	259.9	255.4	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8
105°	319.7	317.3	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3
107.5°	350.9	351.5	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5
110°	358.9	361.3	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	353.8	357.6	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6
115°	336.4	341.7	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7
117.5°	312.6	318.5	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3
120°	296.6	302.3	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8
122.5°	280.5	286.1	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0
125°	259.3	264.4	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4
127.5°	242.2	246.6	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0
130°	231.5	235.5	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3
132.5°	222.3	225.9	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4
135°	209.3	212.3	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3
137.5°	199.7	202.3	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1
140°	192.0	194.4	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3
142.5°	186.7	188.7	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8
145°	178.6	180.2	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8
147.5°	171.8	173.1	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8
150°	167.9	168.9	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3
152.5°	164.8	165.6	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6
155°	161.2	161.7	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3
157.5°	157.9	158.3	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1
160°	156.3	156.5	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4
162.5°	154.8	155.0	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8
165°	152.5	152.7	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3
167.5°	151.5	151.6	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3
170°	151.5	151.5	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7
172.5°	150.7	150.6	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9
177.5°	149.4	149.3	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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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°	4.4	2.8	2.6	1.8	1.0
92.5°	27.1	19.2	17.5	10.8	4.0
95°	66.6	37.5	34.5	22.0	9.6
97.5°	89.7	41.2	38.4	27.5	16.5
100°	98.1	44.3	41.8	31.9	21.9
102.5°	102.0	47.4	45.1	35.8	26.5
105°	104.9	52.0	50.0	42.2	34.4
107.5°	105.4	58.8	57.0	49.6	42.3
110°	104.6	62.5	60.9	54.3	47.7



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CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	104.6	67.1	65.5	59.3	53.0
115°	105.6	74.0	72.5	66.7	61.0
117.5°	107.6	80.7	79.4	74.1	68.8
120°	109.1	84.6	83.4	78.4	73.4
122.5°	111.4	89.1	87.8	82.9	77.9
125°	114.5	95.1	93.9	89.3	84.8
127.5°	117.6	100.8	99.6	95.0	90.3
130°	119.9	104.6	103.3	98.3	93.3
132.5°	121.7	107.7	106.5	101.5	96.5
135°	123.7	111.3	110.2	105.6	101.1
137.5°	126.7	115.8	114.7	110.3	105.8
140°	128.5	118.9	117.9	113.7	109.7
142.5°	130.1	121.2	120.2	116.4	112.6
145°	132.1	124.7	123.9	120.5	117.2
147.5°	135.0	129.1	128.3	125.0	121.8
150°	136.5	131.4	130.7	127.7	124.8
152.5°	137.4	132.9	132.3	130.1	127.9
155°	139.6	136.2	135.8	134.1	132.5
157.5°	141.8	139.4	139.0	137.4	135.9
160°	142.8	140.9	140.6	139.3	138.1
162.5°	143.9	142.5	142.3	141.3	140.4
165°	145.4	144.8	144.6	143.7	142.9
167.5°	146.6	146.1	146.0	145.6	145.2
170°	147.6	147.6	147.5	147.1	146.7
172.5°	147.7	147.7	147.7	147.6	147.5
175°	148.3	148.6	148.6	148.6	148.6
177.5°	148.4	148.6	148.6	148.6	148.6
180°	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P934082  
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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	16.01	17.21	16.68	17.89	18.68	18.81	20.01	19.47	20.69	21.48
	3H	16.52	17.59	17.19	18.28	19.10	20.17	21.25	20.85	21.94	22.76
	4H	16.72	17.74	17.42	18.44	19.27	20.63	21.64	21.32	22.34	23.18
	6H	16.86	17.80	17.57	18.51	19.36	20.92	21.86	21.63	22.57	23.42
	8H	16.87	17.76	17.59	18.49	19.35	21.00	21.89	21.72	22.62	23.48
	12H	16.85	17.71	17.58	18.43	19.31	21.05	21.90	21.77	22.62	23.50
4H	2H	17.08	18.10	17.78	18.80	19.63	19.26	20.28	19.96	20.98	21.81
	3H	18.14	18.98	18.85	19.72	20.57	20.79	21.64	21.50	22.37	23.23
	4H	18.43	19.20	19.15	19.93	20.82	21.33	22.09	22.05	22.83	23.72
	6H	18.57	19.24	19.32	20.00	20.89	21.70	22.37	22.45	23.13	24.02
	8H	18.59	19.21	19.34	19.97	20.87	21.81	22.43	22.56	23.19	24.10
	12H	18.57	19.13	19.34	19.91	20.82	21.88	22.44	22.65	23.22	24.13
8H	4H	18.90	19.53	19.65	20.29	21.19	21.48	22.10	22.23	22.86	23.76
	6H	19.18	19.69	19.96	20.50	21.40	21.92	22.44	22.70	23.24	24.14
	8H	19.22	19.68	20.02	20.49	21.41	22.07	22.53	22.86	23.33	24.25
	12H	19.22	19.63	20.02	20.42	21.40	22.18	22.58	22.97	23.38	24.36
12H	4H	18.92	19.48	19.69	20.27	21.18	21.46	22.02	22.23	22.80	23.71
	6H	19.24	19.70	20.03	20.50	21.42	21.92	22.38	22.71	23.18	24.10
	8H	19.32	19.73	20.12	20.52	21.50	22.09	22.50	22.89	23.29	24.27