

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: P934433

Luminaire Tested: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

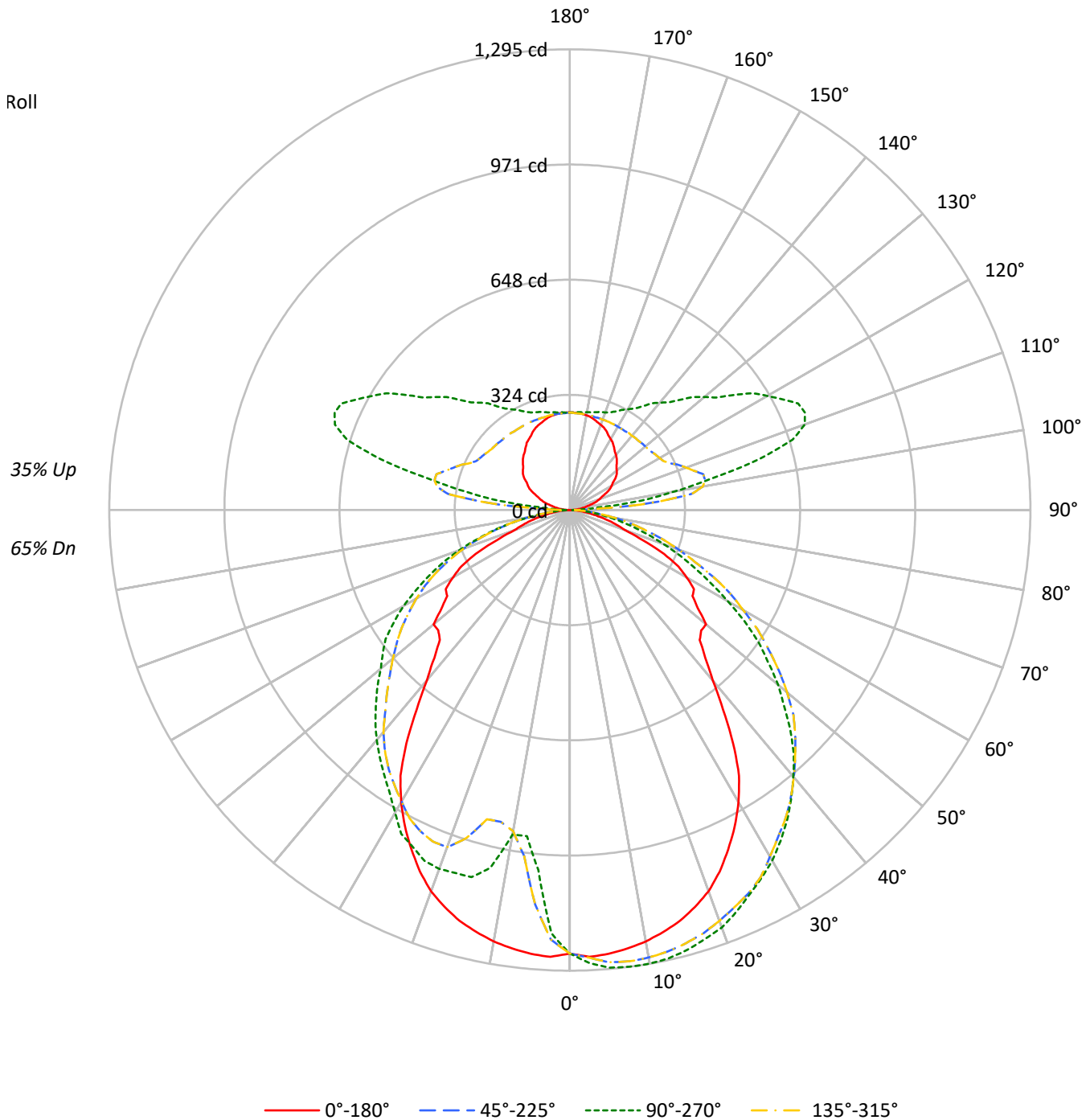
Test Method: LM-79-2019  
Report Number: P934433  
REPORT IS A COMBINATION OF REPORTS P933698 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5010.2 lumens  
Efficiency: N/A  
Efficacy: 110.8 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): 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

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CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K

### 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	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°	11567	11567	11567	11567
5°	11641	11677	11641	9181
10°	11551	11502	11551	8223
15°	11411	11253	11411	9396
20°	11160	10958	11160	9416
25°	10659	10527	10659	9216
30°	10015	10170	10015	8778
35°	8915	9718	8915	8297
40°	7416	9185	7416	7933
45°	6614	8562	6614	7516
50°	7009	7820	7009	7095
55°	6576	7019	6576	6853
60°	6754	5961	6754	6275
65°	6095	4927	6095	5508
70°	4191	3927	4191	4617
75°	3637	2902	3637	3476
80°	2869	1918	2869	2090
85°	1557	1015	1557	864

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10155 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	2.2
10°-20°	319.5	6.4
20°-30°	493.9	9.9
30°-40°	589.6	11.8
40°-50°	593.0	11.8
50°-60°	516.0	10.3
60°-70°	365.9	7.3
70°-80°	193.6	3.9
80°-90°	49.3	1.0
90°-100°	133.6	2.7
100°-110°	351.3	7.0
110°-120°	364.3	7.3
120°-130°	292.2	5.8
130°-140°	229.3	4.6
140°-150°	176.0	3.5
150°-160°	126.7	2.5
160°-170°	77.5	1.5
170°-180°	26.2	0.5
0°-30°	925.9	18.5
0°-40°	1515.5	30.2
0°-60°	2624.5	52.4
0°-90°	3233.2	64.5
90°-120°	849.2	16.9
90°-150°	1546.6	30.9
90°-180°	1777.0	35.5
0°-180°	5010.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1246	1246	1246	1246	1246	
5°	1252	1291	1252	1015	1252	119
15°	1196	1280	1196	1068	1196	336
25°	1053	1194	1053	1045	1053	484
35°	801	1065	801	909	801	495
45°	517	877	517	770	517	414
55°	421	648	421	632	421	387
65°	292	390	292	436	292	280
75°	111	185	111	222	111	117
85°	19	47	19	40	19	25
90°	2	7	2	7	2	2
95°	18	81	18	81	18	20
105°	63	550	63	550	63	67
115°	112	708	112	708	112	111
125°	156	564	156	564	156	139
135°	186	438	186	438	186	144
145°	216	355	216	355	216	135
155°	244	306	244	306	244	112
165°	264	285	264	285	264	74
175°	274	276	274	276	274	26
180°	274	274	274	274	274	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1257.2	1257.2	1264.3	1266.6	1266.6	1263.1	1259.6	1263.1	1273.7	1277.2	1276.1
5°	1252.5	1261.9	1274.9	1277.2	1279.6	1278.4	1276.1	1278.4	1290.2	1292.6	1293.8
7.5°	1243.1	1260.7	1277.2	1280.8	1284.3	1280.8	1279.6	1282.0	1293.8	1296.1	1296.1
10°	1231.3	1256.0	1274.9	1277.2	1280.8	1277.2	1277.2	1282.0	1293.8	1296.1	1297.3
12.5°	1214.8	1249.0	1266.6	1269.0	1273.7	1272.5	1271.4	1276.1	1287.9	1290.2	1290.2
15°	1195.8	1236.0	1252.5	1254.8	1263.1	1260.7	1260.7	1265.5	1278.4	1282.0	1280.8
17.5°	1170.0	1219.5	1238.3	1241.9	1247.8	1246.5	1247.8	1252.5	1264.3	1266.6	1267.8
20°	1140.4	1197.1	1219.5	1223.0	1228.9	1228.9	1228.9	1234.8	1246.5	1251.3	1251.3
22.5°	1100.3	1173.4	1197.1	1199.4	1206.5	1206.5	1208.9	1217.1	1227.7	1228.9	1228.9
25°	1053.2	1147.6	1167.5	1174.7	1181.7	1185.2	1188.8	1193.5	1197.1	1195.8	1197.1
27.5°	1003.7	1114.5	1140.4	1145.1	1154.6	1158.2	1162.8	1164.1	1165.2	1168.7	1166.4
30°	948.2	1068.5	1107.4	1112.1	1127.5	1129.8	1125.1	1127.5	1133.4	1135.8	1138.1
32.5°	885.7	1000.1	1073.2	1083.8	1098.0	1090.9	1089.7	1093.3	1102.7	1102.7	1105.1
35°	800.8	947.1	1041.4	1050.8	1061.4	1053.2	1057.8	1059.1	1065.0	1068.5	1067.3
37.5°	707.6	901.0	1008.4	1015.4	1023.7	1013.0	1020.2	1023.7	1028.4	1026.1	1026.1
40°	625.1	829.1	969.5	974.1	981.3	973.0	980.0	982.4	984.7	982.4	981.3
42.5°	563.8	750.1	928.1	934.0	929.3	935.2	937.6	942.3	938.8	934.0	934.0
45°	516.6	728.8	883.3	890.4	883.3	892.8	896.3	896.3	885.7	883.3	882.2
47.5°	501.2	686.4	838.5	838.5	835.0	846.7	852.7	844.4	833.8	830.3	830.3
50°	500.0	639.2	777.2	772.5	789.0	803.2	797.3	789.0	780.8	767.7	767.7
52.5°	454.1	581.5	698.2	715.9	741.9	750.1	740.6	732.4	718.2	712.3	707.6
55°	421.0	521.3	626.3	661.6	688.7	699.4	681.7	673.4	652.1	648.7	646.3
57.5°	414.0	434.0	560.2	605.0	638.0	636.9	626.3	610.9	593.2	589.7	588.5
60°	379.7	313.7	489.4	542.5	576.7	573.2	563.8	549.6	533.1	530.8	528.3
62.5°	344.4	227.6	409.3	469.4	517.7	516.6	508.3	487.1	475.3	469.4	464.7
65°	292.5	191.0	291.3	390.3	460.0	462.3	444.6	429.3	416.3	409.3	408.0
67.5°	222.9	155.7	196.9	325.5	404.5	402.1	379.7	372.7	356.2	352.6	345.5
70°	165.1	103.8	136.8	264.2	350.3	344.4	326.7	318.4	303.1	294.8	290.1
72.5°	136.8	83.7	100.2	205.2	294.8	287.8	272.4	263.0	250.0	243.0	238.2
75°	110.9	88.5	76.7	152.1	239.4	234.7	220.6	211.1	200.5	191.0	192.3
77.5°	81.4	82.6	61.3	112.0	189.9	182.8	174.5	162.7	158.0	148.6	148.6
80°	61.3	64.9	46.0	76.7	136.8	136.8	129.7	121.5	113.2	108.5	108.5
82.5°	41.2	41.2	34.2	48.4	93.2	89.6	84.9	82.6	77.8	75.5	75.5
85°	18.8	23.6	21.2	29.5	50.7	53.1	53.1	50.7	49.5	47.1	48.4
87.5°	5.9	10.6	12.9	16.5	26.0	27.1	28.3	28.3	28.3	29.5	29.5
90°	1.9	3.3	4.8	5.2	8.1	12.1	14.0	12.4	9.3	7.0	7.0
92.5°	7.3	19.8	32.4	35.5	49.9	69.1	78.7	69.0	49.5	35.0	33.6
95°	17.7	40.5	63.5	69.2	122.8	194.3	230.1	205.3	155.8	118.6	114.4
97.5°	30.5	50.7	70.9	76.0	165.4	284.7	344.4	328.8	297.4	273.9	265.9
100°	40.4	58.7	77.1	81.7	180.9	313.3	379.5	380.7	383.0	384.7	375.2
102.5°	48.9	66.1	83.1	87.4	188.1	322.3	389.5	409.4	449.3	479.2	471.0
105°	63.3	77.7	92.2	95.9	193.3	323.4	388.4	433.1	522.5	589.7	585.3
107.5°	78.0	91.5	105.0	108.4	194.3	309.0	366.3	428.7	553.5	647.1	648.1
110°	87.9	100.1	112.3	115.3	192.9	296.3	347.9	417.7	557.2	661.8	666.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.7	109.3	120.9	123.8	192.9	285.1	331.2	402.6	545.3	652.4	659.5
115°	112.4	123.1	133.8	136.5	194.7	272.2	311.1	379.8	517.4	620.5	630.3
117.5°	126.9	136.7	146.4	148.8	198.3	264.3	297.3	359.4	483.4	576.5	587.3
120°	135.4	144.6	153.7	156.0	201.3	261.6	291.8	348.5	461.9	547.0	557.5
122.5°	143.7	153.0	162.2	164.5	205.5	260.2	287.5	338.6	440.8	517.4	527.7
125°	156.4	164.8	173.2	175.3	211.2	259.0	283.0	326.3	413.1	478.2	487.7
127.5°	166.7	175.2	183.7	185.8	216.9	258.4	279.1	316.3	390.8	446.7	454.7
130°	172.2	181.4	190.5	192.8	221.1	258.8	277.6	310.8	377.1	426.9	434.3
132.5°	177.9	187.1	196.2	198.5	224.5	259.0	276.4	306.0	365.3	409.9	416.6
135°	186.4	194.7	203.1	205.1	228.2	258.8	274.1	298.9	348.7	386.0	391.7
137.5°	195.0	203.2	211.6	213.6	233.7	260.4	273.8	294.7	336.8	368.3	373.0
140°	202.2	209.8	217.4	219.3	237.0	260.6	272.4	290.6	327.0	354.2	358.6
142.5°	207.7	214.8	221.7	223.5	239.8	261.5	272.4	288.4	320.3	344.2	347.9
145°	216.2	222.3	228.4	229.9	243.5	261.6	270.6	283.7	309.7	329.3	332.1
147.5°	224.7	230.7	236.5	238.1	249.0	263.4	270.6	280.9	301.4	316.8	319.2
150°	230.1	235.5	240.9	242.3	251.7	264.3	270.6	279.3	296.6	309.6	311.6
152.5°	235.8	239.9	244.0	245.0	253.6	264.9	270.6	278.1	292.9	303.9	305.4
155°	244.3	247.3	250.4	251.1	257.6	266.3	270.6	276.5	288.3	297.2	298.1
157.5°	250.6	253.5	256.4	257.2	261.6	267.6	270.6	275.2	284.4	291.3	292.0
160°	254.8	257.1	259.4	259.9	263.5	268.2	270.6	274.6	282.4	288.3	288.7
162.5°	259.0	260.7	262.4	262.9	265.5	268.9	270.6	273.9	280.6	285.5	285.9
165°	263.7	265.2	266.8	267.2	268.3	269.8	270.6	273.0	277.7	281.3	281.6
167.5°	267.9	268.6	269.3	269.5	270.5	271.8	272.4	274.0	277.2	279.5	279.7
170°	270.6	271.4	272.1	272.2	272.3	272.4	272.4	274.0	277.2	279.5	279.5
172.5°	272.1	272.2	272.4	272.4	272.4	272.4	272.4	273.7	276.1	278.0	277.8
175°	274.1	274.1	274.1	274.1	273.6	272.8	272.4	273.2	274.8	276.0	276.0
177.5°	274.1	274.1	274.1	274.1	273.7	273.1	272.9	273.5	274.7	275.6	275.5
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1278.4	1274.9	1278.4	1276.1	1277.2	1273.7	1263.1	1259.6	1263.1	1266.6	1266.6
5°	1293.8	1291.4	1293.8	1293.8	1292.6	1290.2	1278.4	1276.1	1278.4	1279.6	1277.2
7.5°	1298.5	1294.9	1298.5	1296.1	1296.1	1293.8	1282.0	1279.6	1280.8	1284.3	1280.8
10°	1298.5	1294.9	1298.5	1297.3	1296.1	1293.8	1282.0	1277.2	1277.2	1280.8	1277.2
12.5°	1292.6	1290.2	1292.6	1290.2	1290.2	1287.9	1276.1	1271.4	1272.5	1273.7	1269.0
15°	1283.1	1279.6	1283.1	1280.8	1282.0	1278.4	1265.5	1260.7	1260.7	1263.1	1254.8
17.5°	1269.0	1264.3	1269.0	1267.8	1266.6	1264.3	1252.5	1247.8	1246.5	1247.8	1241.9
20°	1252.5	1249.0	1252.5	1251.3	1251.3	1246.5	1234.8	1228.9	1228.9	1228.9	1223.0
22.5°	1226.5	1223.0	1226.5	1228.9	1228.9	1227.7	1217.1	1208.9	1206.5	1206.5	1199.4
25°	1197.1	1193.5	1197.1	1197.1	1195.8	1197.1	1193.5	1188.8	1185.2	1181.7	1174.7
27.5°	1168.7	1166.4	1168.7	1166.4	1168.7	1165.2	1164.1	1162.8	1158.2	1154.6	1145.1
30°	1140.4	1138.1	1140.4	1138.1	1135.8	1133.4	1127.5	1125.1	1129.8	1127.5	1112.1
32.5°	1105.1	1102.7	1105.1	1105.1	1102.7	1102.7	1093.3	1089.7	1090.9	1098.0	1083.8
35°	1068.5	1065.0	1068.5	1067.3	1068.5	1065.0	1059.1	1057.8	1053.2	1061.4	1050.8
37.5°	1026.1	1022.5	1026.1	1026.1	1026.1	1028.4	1023.7	1020.2	1013.0	1023.7	1015.4
40°	982.4	977.7	982.4	981.3	982.4	984.7	982.4	980.0	973.0	981.3	974.1
42.5°	932.9	931.7	932.9	934.0	934.0	938.8	942.3	937.6	935.2	929.3	934.0
45°	879.8	877.4	879.8	882.2	883.3	885.7	896.3	896.3	892.8	883.3	890.4
47.5°	823.2	817.3	823.2	830.3	830.3	833.8	844.4	852.7	846.7	835.0	838.5
50°	763.0	764.3	763.0	767.7	767.7	780.8	789.0	797.3	803.2	789.0	772.5
52.5°	704.1	702.9	704.1	707.6	712.3	718.2	732.4	740.6	750.1	741.9	715.9
55°	645.1	647.5	645.1	646.3	648.7	652.1	673.4	681.7	699.4	688.7	661.6
57.5°	586.2	582.6	586.2	588.5	589.7	593.2	610.9	626.3	636.9	638.0	605.0
60°	517.7	513.0	517.7	528.3	530.8	533.1	549.6	563.8	573.2	576.7	542.5
62.5°	457.6	449.3	457.6	464.7	469.4	475.3	487.1	508.3	516.6	517.7	469.4
65°	393.9	390.3	393.9	408.0	409.3	416.3	429.3	444.6	462.3	460.0	390.3
67.5°	336.2	336.2	336.2	345.5	352.6	356.2	372.7	379.7	402.1	404.5	325.5
70°	283.0	281.9	283.0	290.1	294.8	303.1	318.4	326.7	344.4	350.3	264.2
72.5°	232.3	231.2	232.3	238.2	243.0	250.0	263.0	272.4	287.8	294.8	205.2
75°	187.5	185.1	187.5	192.3	191.0	200.5	211.1	220.6	234.7	239.4	152.1
77.5°	143.9	143.9	143.9	148.6	148.6	158.0	162.7	174.5	182.8	189.9	112.0
80°	107.3	106.1	107.3	108.5	108.5	113.2	121.5	129.7	136.8	136.8	76.7
82.5°	75.5	73.1	75.5	75.5	75.5	77.8	82.6	84.9	89.6	93.2	48.4
85°	47.1	47.1	47.1	48.4	47.1	49.5	50.7	53.1	53.1	50.7	29.5
87.5°	30.7	29.5	30.7	29.5	29.5	28.3	28.3	28.3	27.1	26.0	16.5
90°	7.0	7.0	7.0	7.0	7.0	9.3	12.4	14.0	12.1	8.1	5.2
92.5°	28.0	22.4	28.0	33.6	35.0	49.5	69.0	78.7	69.1	49.9	35.5
95°	97.6	80.8	97.6	114.4	118.6	155.8	205.3	230.1	194.3	122.8	69.2
97.5°	233.9	201.8	233.9	265.9	273.9	297.4	328.8	344.4	284.7	165.4	76.0
100°	337.0	298.8	337.0	375.2	384.7	383.0	380.7	379.5	313.3	180.9	81.7
102.5°	438.4	405.7	438.4	471.0	479.2	449.3	409.4	389.5	322.3	188.1	87.4
105°	567.7	550.1	567.7	585.3	589.7	522.5	433.1	388.4	323.4	193.3	95.9
107.5°	652.3	656.6	652.3	648.1	647.1	553.5	428.7	366.3	309.0	194.3	108.4
110°	684.6	702.9	684.6	666.3	661.8	557.2	417.7	347.9	296.3	192.9	115.3





TEST NUMBER: P934433

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	687.6	715.7	687.6	659.5	652.4	545.3	402.6	331.2	285.1	192.9	123.8
115°	669.3	708.3	669.3	630.3	620.5	517.4	379.8	311.1	272.2	194.7	136.5
117.5°	630.6	673.9	630.6	587.3	576.5	483.4	359.4	297.3	264.3	198.3	148.8
120°	599.5	641.5	599.5	557.5	547.0	461.9	348.5	291.8	261.6	201.3	156.0
122.5°	569.2	610.6	569.2	527.7	517.4	440.8	338.6	287.5	260.2	205.5	164.5
125°	525.8	564.0	525.8	487.7	478.2	413.1	326.3	283.0	259.0	211.2	175.3
127.5°	486.9	519.1	486.9	454.7	446.7	390.8	316.3	279.1	258.4	216.9	185.8
130°	464.1	493.8	464.1	434.3	426.9	377.1	310.8	277.6	258.8	221.1	192.8
132.5°	443.2	469.9	443.2	416.6	409.9	365.3	306.0	276.4	259.0	224.5	198.5
135°	414.7	437.7	414.7	391.7	386.0	348.7	298.9	274.1	258.8	228.2	205.1
137.5°	391.8	410.6	391.8	373.0	368.3	336.8	294.7	273.8	260.4	233.7	213.6
140°	376.2	393.7	376.2	358.6	354.2	327.0	290.6	272.4	260.6	237.0	219.3
142.5°	363.1	378.3	363.1	347.9	344.2	320.3	288.4	272.4	261.5	239.8	223.5
145°	343.7	355.1	343.7	332.1	329.3	309.7	283.7	270.6	261.6	243.5	229.9
147.5°	328.7	338.1	328.7	319.2	316.8	301.4	280.9	270.6	263.4	249.0	238.1
150°	319.3	327.0	319.3	311.6	309.6	296.6	279.3	270.6	264.3	251.7	242.3
152.5°	311.2	317.0	311.2	305.4	303.9	292.9	278.1	270.6	264.9	253.6	245.0
155°	302.0	305.8	302.0	298.1	297.2	288.3	276.5	270.6	266.3	257.6	251.1
157.5°	294.7	297.3	294.7	292.0	291.3	284.4	275.2	270.6	267.6	261.6	257.2
160°	290.3	291.8	290.3	288.7	288.3	282.4	274.6	270.6	268.2	263.5	259.9
162.5°	287.4	288.9	287.4	285.9	285.5	280.6	273.9	270.6	268.9	265.5	262.9
165°	283.2	284.8	283.2	281.6	281.3	277.7	273.0	270.6	269.8	268.3	267.2
167.5°	280.3	280.9	280.3	279.7	279.5	277.2	274.0	272.4	271.8	270.5	269.5
170°	279.5	279.5	279.5	279.5	279.5	277.2	274.0	272.4	272.4	272.3	272.2
172.5°	277.2	276.7	277.2	277.8	278.0	276.1	273.7	272.4	272.4	272.4	272.4
175°	276.0	276.0	276.0	276.0	276.0	274.8	273.2	272.4	272.8	273.6	274.1
177.5°	274.8	274.1	274.8	275.5	275.6	274.7	273.5	272.9	273.1	273.7	274.1
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934433

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1264.3	1257.2	1257.2	1245.4	1240.7	1237.2	1231.3	1213.6	1208.9	1204.1	1211.2
5°	1274.9	1261.9	1252.5	1231.3	1213.6	1206.5	1184.1	1141.7	1113.3	1092.1	1080.3
7.5°	1277.2	1260.7	1243.1	1210.0	1167.5	1148.7	1080.3	1002.5	981.3	962.3	950.6
10°	1274.9	1256.0	1231.3	1181.7	1081.5	1048.5	980.0	929.3	916.4	912.8	916.4
12.5°	1266.6	1249.0	1214.8	1132.2	991.9	969.5	929.3	899.9	897.5	903.4	935.2
15°	1252.5	1236.0	1195.8	1066.1	942.3	925.8	897.5	886.9	899.9	941.1	1036.7
17.5°	1238.3	1219.5	1170.0	1001.3	904.6	892.8	872.7	894.0	967.1	1022.5	1054.4
20°	1219.5	1197.1	1140.4	954.1	877.4	866.8	857.4	953.0	1008.4	1028.4	1046.1
22.5°	1197.1	1173.4	1100.3	921.1	849.1	840.8	846.7	986.0	1008.4	1022.5	1037.8
25°	1167.5	1147.6	1053.2	895.1	826.7	817.3	839.7	982.4	995.4	998.9	1029.5
27.5°	1140.4	1114.5	1003.7	871.6	799.6	796.0	845.6	967.1	976.5	980.0	1013.0
30°	1107.4	1068.5	948.2	846.7	771.3	770.2	846.7	948.2	945.8	955.3	988.3
32.5°	1073.2	1000.1	885.7	816.1	744.2	743.0	838.5	919.9	917.5	930.6	955.3
35°	1041.4	947.1	800.8	780.8	710.0	711.2	818.4	886.9	888.1	899.9	915.2
37.5°	1008.4	901.0	707.6	741.9	677.0	677.0	791.3	856.2	853.9	857.4	878.6
40°	969.5	829.1	625.1	691.1	646.3	642.8	758.4	823.2	815.0	813.8	843.3
42.5°	928.1	750.1	563.8	623.9	610.9	606.2	718.2	783.1	767.7	771.3	809.1
45°	883.3	728.8	516.6	527.2	574.3	570.8	674.6	737.1	726.5	736.0	774.9
47.5°	838.5	686.4	501.2	437.6	535.4	534.2	626.3	692.3	686.4	695.8	737.1
50°	777.2	639.2	500.0	375.1	491.8	496.5	568.4	648.7	648.7	656.9	700.5
52.5°	698.2	581.5	454.1	339.6	441.0	455.2	517.7	610.9	613.2	621.5	660.4
55°	626.3	521.3	421.0	312.5	381.0	411.6	468.2	572.0	576.7	584.9	620.4
57.5°	560.2	434.0	414.0	280.7	325.5	355.0	424.5	534.2	536.6	543.7	577.9
60°	489.4	313.7	379.7	246.5	277.2	299.6	384.5	489.4	497.7	502.4	531.9
62.5°	409.3	227.6	344.4	222.9	253.6	258.3	351.4	446.9	457.6	461.1	478.8
65°	291.3	191.0	292.5	202.9	228.8	229.9	316.1	403.4	412.7	418.6	431.7
67.5°	196.9	155.7	222.9	184.0	209.9	211.1	281.9	352.6	365.6	370.3	378.6
70°	136.8	103.8	165.1	164.0	188.7	191.0	245.3	306.6	318.4	322.0	326.7
72.5°	100.2	83.7	136.8	147.5	166.3	168.6	207.5	254.8	266.5	270.1	272.4
75°	76.7	88.5	110.9	128.5	141.5	142.7	169.9	207.5	215.8	218.2	219.3
77.5°	61.3	82.6	81.4	103.8	115.6	113.2	133.3	160.4	167.5	167.5	167.5
80°	46.0	64.9	61.3	74.3	84.9	82.6	95.5	114.4	116.8	119.1	117.9
82.5°	34.2	41.2	41.2	47.1	56.6	54.3	63.6	74.3	74.3	74.3	76.7
85°	21.2	23.6	18.8	24.7	31.9	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	12.9	10.6	5.9	9.5	14.2	14.2	16.5	17.7	16.5	16.5	16.5
90°	4.8	3.3	1.9	3.3	4.8	5.2	8.1	12.1	14.0	12.4	9.3
92.5°	32.4	19.8	7.3	19.8	32.4	35.5	49.9	69.1	78.7	69.0	49.5
95°	63.5	40.5	17.7	40.5	63.5	69.2	122.8	194.3	230.1	205.3	155.8
97.5°	70.9	50.7	30.5	50.7	70.9	76.0	165.4	284.7	344.4	328.8	297.4
100°	77.1	58.7	40.4	58.7	77.1	81.7	180.9	313.3	379.5	380.7	383.0
102.5°	83.1	66.1	48.9	66.1	83.1	87.4	188.1	322.3	389.5	409.4	449.3
105°	92.2	77.7	63.3	77.7	92.2	95.9	193.3	323.4	388.4	433.1	522.5
107.5°	105.0	91.5	78.0	91.5	105.0	108.4	194.3	309.0	366.3	428.7	553.5
110°	112.3	100.1	87.9	100.1	112.3	115.3	192.9	296.3	347.9	417.7	557.2



TEST NUMBER: P934433

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.9	109.3	97.7	109.3	120.9	123.8	192.9	285.1	331.2	402.6	545.3
115°	133.8	123.1	112.4	123.1	133.8	136.5	194.7	272.2	311.1	379.8	517.4
117.5°	146.4	136.7	126.9	136.7	146.4	148.8	198.3	264.3	297.3	359.4	483.4
120°	153.7	144.6	135.4	144.6	153.7	156.0	201.3	261.6	291.8	348.5	461.9
122.5°	162.2	153.0	143.7	153.0	162.2	164.5	205.5	260.2	287.5	338.6	440.8
125°	173.2	164.8	156.4	164.8	173.2	175.3	211.2	259.0	283.0	326.3	413.1
127.5°	183.7	175.2	166.7	175.2	183.7	185.8	216.9	258.4	279.1	316.3	390.8
130°	190.5	181.4	172.2	181.4	190.5	192.8	221.1	258.8	277.6	310.8	377.1
132.5°	196.2	187.1	177.9	187.1	196.2	198.5	224.5	259.0	276.4	306.0	365.3
135°	203.1	194.7	186.4	194.7	203.1	205.1	228.2	258.8	274.1	298.9	348.7
137.5°	211.6	203.2	195.0	203.2	211.6	213.6	233.7	260.4	273.8	294.7	336.8
140°	217.4	209.8	202.2	209.8	217.4	219.3	237.0	260.6	272.4	290.6	327.0
142.5°	221.7	214.8	207.7	214.8	221.7	223.5	239.8	261.5	272.4	288.4	320.3
145°	228.4	222.3	216.2	222.3	228.4	229.9	243.5	261.6	270.6	283.7	309.7
147.5°	236.5	230.7	224.7	230.7	236.5	238.1	249.0	263.4	270.6	280.9	301.4
150°	240.9	235.5	230.1	235.5	240.9	242.3	251.7	264.3	270.6	279.3	296.6
152.5°	244.0	239.9	235.8	239.9	244.0	245.0	253.6	264.9	270.6	278.1	292.9
155°	250.4	247.3	244.3	247.3	250.4	251.1	257.6	266.3	270.6	276.5	288.3
157.5°	256.4	253.5	250.6	253.5	256.4	257.2	261.6	267.6	270.6	275.2	284.4
160°	259.4	257.1	254.8	257.1	259.4	259.9	263.5	268.2	270.6	274.6	282.4
162.5°	262.4	260.7	259.0	260.7	262.4	262.9	265.5	268.9	270.6	273.9	280.6
165°	266.8	265.2	263.7	265.2	266.8	267.2	268.3	269.8	270.6	273.0	277.7
167.5°	269.3	268.6	267.9	268.6	269.3	269.5	270.5	271.8	272.4	274.0	277.2
170°	272.1	271.4	270.6	271.4	272.1	272.2	272.3	272.4	272.4	274.0	277.2
172.5°	272.4	272.2	272.1	272.2	272.4	272.4	272.4	272.4	272.4	273.7	276.1
175°	274.1	274.1	274.1	274.1	274.1	274.1	273.6	272.8	272.4	273.2	274.8
177.5°	274.1	274.1	274.1	274.1	274.1	274.1	273.7	273.1	272.9	273.5	274.7
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934433

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1203.0	1199.4	1204.1	1191.1	1204.1	1199.4	1203.0	1211.2	1204.1	1208.9	1213.6
5°	1055.5	1049.6	1030.8	1015.4	1030.8	1049.6	1055.5	1080.3	1092.1	1113.3	1141.7
7.5°	943.5	938.8	934.0	924.6	934.0	938.8	943.5	950.6	962.3	981.3	1002.5
10°	918.7	919.9	927.0	925.8	927.0	919.9	918.7	916.4	912.8	916.4	929.3
12.5°	982.4	993.0	1032.0	1029.5	1032.0	993.0	982.4	935.2	903.4	897.5	899.9
15°	1055.5	1059.1	1067.3	1068.5	1067.3	1059.1	1055.5	1036.7	941.1	899.9	886.9
17.5°	1062.6	1063.8	1069.7	1069.7	1069.7	1063.8	1062.6	1054.4	1022.5	967.1	894.0
20°	1056.7	1059.1	1070.9	1073.2	1070.9	1059.1	1056.7	1046.1	1028.4	1008.4	953.0
22.5°	1054.4	1059.1	1068.5	1067.3	1068.5	1059.1	1054.4	1037.8	1022.5	1008.4	986.0
25°	1042.6	1042.6	1043.7	1044.9	1043.7	1042.6	1042.6	1029.5	998.9	995.4	982.4
27.5°	1017.8	1020.2	1027.2	1026.1	1027.2	1020.2	1017.8	1013.0	980.0	976.5	967.1
30°	995.4	993.0	987.1	982.4	987.1	993.0	995.4	988.3	955.3	945.8	948.2
32.5°	957.6	951.7	945.8	942.3	945.8	951.7	957.6	955.3	930.6	917.5	919.9
35°	912.8	914.0	912.8	909.3	912.8	914.0	912.8	915.2	899.9	888.1	886.9
37.5°	881.0	883.3	882.2	877.4	882.2	883.3	881.0	878.6	857.4	853.9	856.2
40°	848.0	849.1	848.0	844.4	848.0	849.1	848.0	843.3	813.8	815.0	823.2
42.5°	816.1	815.0	811.4	809.1	811.4	815.0	816.1	809.1	771.3	767.7	783.1
45°	779.5	780.8	773.6	770.2	773.6	780.8	779.5	774.9	736.0	726.5	737.1
47.5°	743.0	743.0	737.1	733.6	737.1	743.0	743.0	737.1	695.8	686.4	692.3
50°	704.1	702.9	694.6	693.5	694.6	702.9	704.1	700.5	656.9	648.7	648.7
52.5°	659.3	659.3	660.4	662.8	660.4	659.3	659.3	660.4	621.5	613.2	610.9
55°	620.4	621.5	629.7	632.2	629.7	621.5	620.4	620.4	584.9	576.7	572.0
57.5°	580.2	580.2	586.2	586.2	586.2	580.2	580.2	577.9	543.7	536.6	534.2
60°	534.2	536.6	541.3	540.1	541.3	536.6	534.2	531.9	502.4	497.7	489.4
62.5°	485.9	488.3	489.4	487.1	489.4	488.3	485.9	478.8	461.1	457.6	446.9
65°	435.2	437.6	438.7	436.4	438.7	437.6	435.2	431.7	418.6	412.7	403.4
67.5°	383.3	382.1	381.0	385.6	381.0	382.1	383.3	378.6	370.3	365.6	352.6
70°	330.2	330.2	329.0	331.4	329.0	330.2	330.2	326.7	322.0	318.4	306.6
72.5°	273.6	272.4	277.2	273.6	277.2	272.4	273.6	272.4	270.1	266.5	254.8
75°	218.2	220.6	218.2	221.7	218.2	220.6	218.2	219.3	218.2	215.8	207.5
77.5°	166.3	168.6	166.3	166.3	166.3	168.6	166.3	167.5	167.5	167.5	160.4
80°	117.9	116.8	116.8	115.6	116.8	116.8	117.9	117.9	119.1	116.8	114.4
82.5°	75.5	74.3	74.3	76.7	74.3	74.3	75.5	76.7	74.3	74.3	74.3
85°	41.2	42.5	40.1	40.1	40.1	42.5	41.2	38.9	41.2	41.2	40.1
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.5	16.5	16.5	17.7
90°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.3	12.4	14.0	12.1
92.5°	35.0	33.6	28.0	22.4	28.0	33.6	35.0	49.5	69.0	78.7	69.1
95°	118.6	114.4	97.6	80.8	97.6	114.4	118.6	155.8	205.3	230.1	194.3
97.5°	273.9	265.9	233.9	201.8	233.9	265.9	273.9	297.4	328.8	344.4	284.7
100°	384.7	375.2	337.0	298.8	337.0	375.2	384.7	383.0	380.7	379.5	313.3
102.5°	479.2	471.0	438.4	405.7	438.4	471.0	479.2	449.3	409.4	389.5	322.3
105°	589.7	585.3	567.7	550.1	567.7	585.3	589.7	522.5	433.1	388.4	323.4
107.5°	647.1	648.1	652.3	656.6	652.3	648.1	647.1	553.5	428.7	366.3	309.0
110°	661.8	666.3	684.6	702.9	684.6	666.3	661.8	557.2	417.7	347.9	296.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	652.4	659.5	687.6	715.7	687.6	659.5	652.4	545.3	402.6	331.2	285.1
115°	620.5	630.3	669.3	708.3	669.3	630.3	620.5	517.4	379.8	311.1	272.2
117.5°	576.5	587.3	630.6	673.9	630.6	587.3	576.5	483.4	359.4	297.3	264.3
120°	547.0	557.5	599.5	641.5	599.5	557.5	547.0	461.9	348.5	291.8	261.6
122.5°	517.4	527.7	569.2	610.6	569.2	527.7	517.4	440.8	338.6	287.5	260.2
125°	478.2	487.7	525.8	564.0	525.8	487.7	478.2	413.1	326.3	283.0	259.0
127.5°	446.7	454.7	486.9	519.1	486.9	454.7	446.7	390.8	316.3	279.1	258.4
130°	426.9	434.3	464.1	493.8	464.1	434.3	426.9	377.1	310.8	277.6	258.8
132.5°	409.9	416.6	443.2	469.9	443.2	416.6	409.9	365.3	306.0	276.4	259.0
135°	386.0	391.7	414.7	437.7	414.7	391.7	386.0	348.7	298.9	274.1	258.8
137.5°	368.3	373.0	391.8	410.6	391.8	373.0	368.3	336.8	294.7	273.8	260.4
140°	354.2	358.6	376.2	393.7	376.2	358.6	354.2	327.0	290.6	272.4	260.6
142.5°	344.2	347.9	363.1	378.3	363.1	347.9	344.2	320.3	288.4	272.4	261.5
145°	329.3	332.1	343.7	355.1	343.7	332.1	329.3	309.7	283.7	270.6	261.6
147.5°	316.8	319.2	328.7	338.1	328.7	319.2	316.8	301.4	280.9	270.6	263.4
150°	309.6	311.6	319.3	327.0	319.3	311.6	309.6	296.6	279.3	270.6	264.3
152.5°	303.9	305.4	311.2	317.0	311.2	305.4	303.9	292.9	278.1	270.6	264.9
155°	297.2	298.1	302.0	305.8	302.0	298.1	297.2	288.3	276.5	270.6	266.3
157.5°	291.3	292.0	294.7	297.3	294.7	292.0	291.3	284.4	275.2	270.6	267.6
160°	288.3	288.7	290.3	291.8	290.3	288.7	288.3	282.4	274.6	270.6	268.2
162.5°	285.5	285.9	287.4	288.9	287.4	285.9	285.5	280.6	273.9	270.6	268.9
165°	281.3	281.6	283.2	284.8	283.2	281.6	281.3	277.7	273.0	270.6	269.8
167.5°	279.5	279.7	280.3	280.9	280.3	279.7	279.5	277.2	274.0	272.4	271.8
170°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	277.2	274.0	272.4	272.4
172.5°	278.0	277.8	277.2	276.7	277.2	277.8	278.0	276.1	273.7	272.4	272.4
175°	276.0	276.0	276.0	276.0	276.0	276.0	276.0	274.8	273.2	272.4	272.8
177.5°	275.6	275.5	274.8	274.1	274.8	275.5	275.6	274.7	273.5	272.9	273.1
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1231.3	1237.2	1240.7	1245.4	1257.2
5°	1184.1	1206.5	1213.6	1231.3	1252.5
7.5°	1080.3	1148.7	1167.5	1210.0	1243.1
10°	980.0	1048.5	1081.5	1181.7	1231.3
12.5°	929.3	969.5	991.9	1132.2	1214.8
15°	897.5	925.8	942.3	1066.1	1195.8
17.5°	872.7	892.8	904.6	1001.3	1170.0
20°	857.4	866.8	877.4	954.1	1140.4
22.5°	846.7	840.8	849.1	921.1	1100.3
25°	839.7	817.3	826.7	895.1	1053.2
27.5°	845.6	796.0	799.6	871.6	1003.7
30°	846.7	770.2	771.3	846.7	948.2
32.5°	838.5	743.0	744.2	816.1	885.7
35°	818.4	711.2	710.0	780.8	800.8
37.5°	791.3	677.0	677.0	741.9	707.6
40°	758.4	642.8	646.3	691.1	625.1
42.5°	718.2	606.2	610.9	623.9	563.8
45°	674.6	570.8	574.3	527.2	516.6
47.5°	626.3	534.2	535.4	437.6	501.2
50°	568.4	496.5	491.8	375.1	500.0
52.5°	517.7	455.2	441.0	339.6	454.1
55°	468.2	411.6	381.0	312.5	421.0
57.5°	424.5	355.0	325.5	280.7	414.0
60°	384.5	299.6	277.2	246.5	379.7
62.5°	351.4	258.3	253.6	222.9	344.4
65°	316.1	229.9	228.8	202.9	292.5
67.5°	281.9	211.1	209.9	184.0	222.9
70°	245.3	191.0	188.7	164.0	165.1
72.5°	207.5	168.6	166.3	147.5	136.8
75°	169.9	142.7	141.5	128.5	110.9
77.5°	133.3	113.2	115.6	103.8	81.4
80°	95.5	82.6	84.9	74.3	61.3
82.5°	63.6	54.3	56.6	47.1	41.2
85°	35.3	30.7	31.9	24.7	18.8
87.5°	16.5	14.2	14.2	9.5	5.9
90°	8.1	5.2	4.8	3.3	1.9
92.5°	49.9	35.5	32.4	19.8	7.3
95°	122.8	69.2	63.5	40.5	17.7
97.5°	165.4	76.0	70.9	50.7	30.5
100°	180.9	81.7	77.1	58.7	40.4
102.5°	188.1	87.4	83.1	66.1	48.9
105°	193.3	95.9	92.2	77.7	63.3
107.5°	194.3	108.4	105.0	91.5	78.0
110°	192.9	115.3	112.3	100.1	87.9



TEST NUMBER: P934433

CATALOG NUMBER: SQ4-FA-050U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	192.9	123.8	120.9	109.3	97.7
115°	194.7	136.5	133.8	123.1	112.4
117.5°	198.3	148.8	146.4	136.7	126.9
120°	201.3	156.0	153.7	144.6	135.4
122.5°	205.5	164.5	162.2	153.0	143.7
125°	211.2	175.3	173.2	164.8	156.4
127.5°	216.9	185.8	183.7	175.2	166.7
130°	221.1	192.8	190.5	181.4	172.2
132.5°	224.5	198.5	196.2	187.1	177.9
135°	228.2	205.1	203.1	194.7	186.4
137.5°	233.7	213.6	211.6	203.2	195.0
140°	237.0	219.3	217.4	209.8	202.2
142.5°	239.8	223.5	221.7	214.8	207.7
145°	243.5	229.9	228.4	222.3	216.2
147.5°	249.0	238.1	236.5	230.7	224.7
150°	251.7	242.3	240.9	235.5	230.1
152.5°	253.6	245.0	244.0	239.9	235.8
155°	257.6	251.1	250.4	247.3	244.3
157.5°	261.6	257.2	256.4	253.5	250.6
160°	263.5	259.9	259.4	257.1	254.8
162.5°	265.5	262.9	262.4	260.7	259.0
165°	268.3	267.2	266.8	265.2	263.7
167.5°	270.5	269.5	269.3	268.6	267.9
170°	272.3	272.2	272.1	271.4	270.6
172.5°	272.4	272.4	272.4	272.2	272.1
175°	273.6	274.1	274.1	274.1	274.1
177.5°	273.7	274.1	274.1	274.1	274.1
180°	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934433

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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	14.54	15.55	15.36	16.40	17.44	17.34	18.35	18.16	19.19	20.24
	3H	15.03	15.94	15.87	16.79	17.86	18.69	19.59	19.52	20.45	21.52
	4H	15.23	16.08	16.08	16.94	18.03	19.13	19.99	19.98	20.85	21.93
	6H	15.36	16.14	16.22	17.01	18.11	19.42	20.20	20.28	21.07	22.17
	8H	15.36	16.11	16.23	17.00	18.10	19.49	20.24	20.36	21.13	22.23
	12H	15.34	16.05	16.22	16.93	18.06	19.53	20.24	20.41	21.12	22.25
4H	2H	15.59	16.44	16.44	17.30	18.39	17.77	18.62	18.62	19.48	20.57
	3H	16.63	17.34	17.49	18.23	19.33	19.28	19.99	20.15	20.88	21.99
	4H	16.91	17.56	17.79	18.45	19.57	19.81	20.45	20.69	21.34	22.47
	6H	17.04	17.60	17.94	18.52	19.65	20.17	20.73	21.07	21.65	22.78
	8H	17.05	17.57	17.95	18.48	19.63	20.28	20.80	21.17	21.71	22.85
	12H	17.03	17.50	17.94	18.42	19.57	20.34	20.81	21.25	21.73	22.88
8H	4H	17.37	17.89	18.27	18.80	19.94	19.94	20.47	20.84	21.38	22.52
	6H	17.64	18.07	18.56	19.02	20.16	20.38	20.81	21.30	21.76	22.90
	8H	17.68	18.06	18.62	19.01	20.17	20.53	20.91	21.46	21.85	23.01
	12H	17.67	18.01	18.61	18.94	20.16	20.63	20.96	21.56	21.90	23.11
12H	4H	17.38	17.85	18.30	18.78	19.93	19.91	20.39	20.83	21.31	22.46
	6H	17.70	18.08	18.63	19.02	20.18	20.38	20.76	21.31	21.70	22.86
	8H	17.77	18.11	18.71	19.04	20.25	20.54	20.88	21.48	21.81	23.02