

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: P935258

Luminaire Tested: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

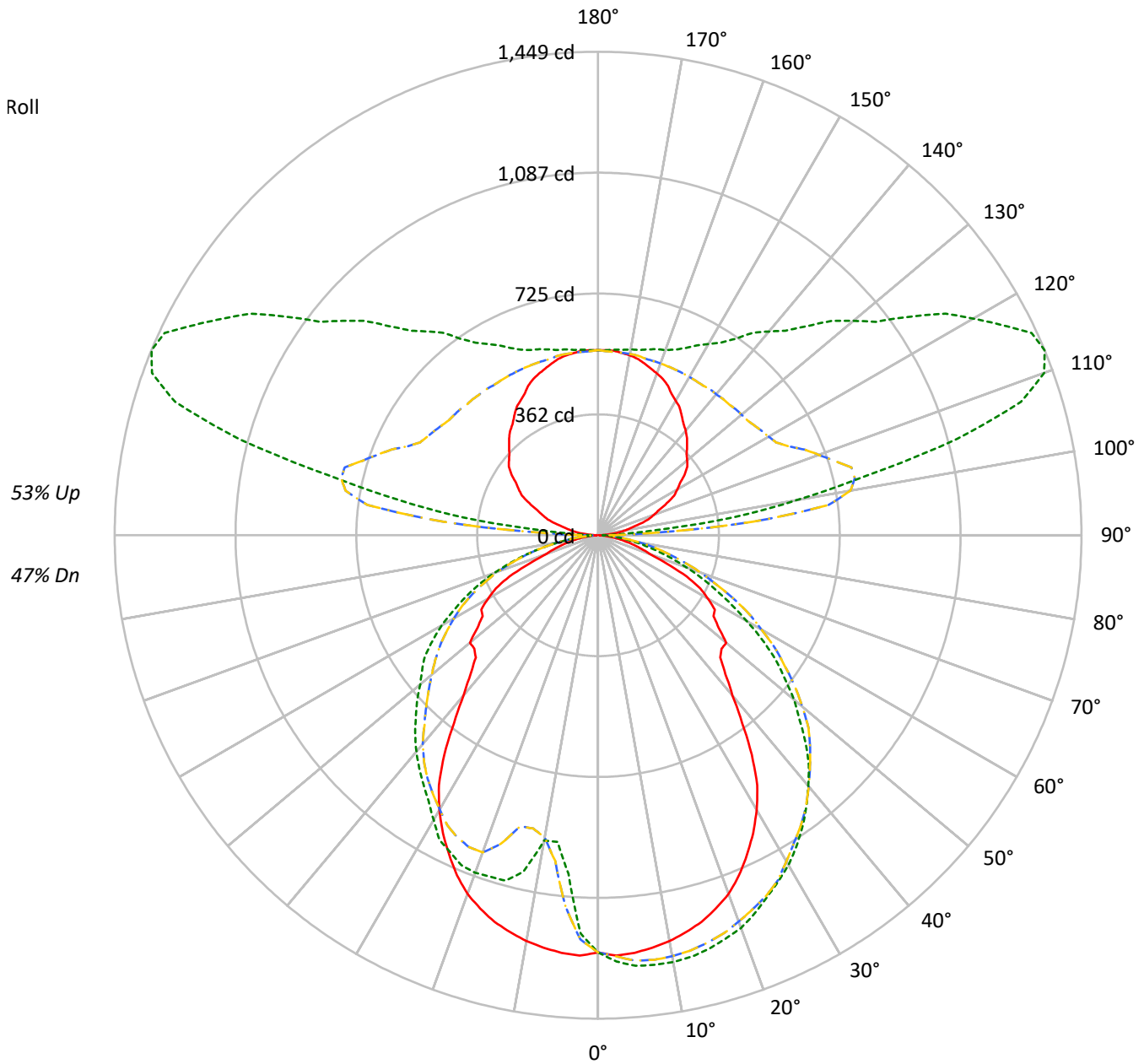
Test Method: LM-79-2019  
Report Number: P935258  
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6841.1 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P935258  
CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

### 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
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	11602	11602	11602	11602
5°	11676	11712	11676	9209
10°	11586	11536	11586	8248
15°	11445	11286	11445	9425
20°	11194	10991	11194	9444
25°	10691	10559	10691	9245
30°	10046	10200	10046	8805
35°	8942	9747	8942	8323
40°	7439	9213	7439	7957
45°	6633	8588	6633	7538
50°	7032	7843	7032	7117
55°	6596	7040	6596	6873
60°	6776	5978	6776	6295
65°	6114	4942	6114	5525
70°	4204	3938	4204	4631
75°	3647	2911	3647	3487
80°	2878	1926	2878	2095
85°	1565	1019	1565	866

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10186 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	1.6
10°-20°	320.5	4.7
20°-30°	495.4	7.2
30°-40°	591.4	8.6
40°-50°	594.8	8.7
50°-60°	517.6	7.6
60°-70°	367.0	5.4
70°-80°	194.1	2.8
80°-90°	50.5	0.7
90°-100°	270.5	4.0
100°-110°	711.1	10.4
110°-120°	737.3	10.8
120°-130°	591.4	8.6
130°-140°	464.0	6.8
140°-150°	356.2	5.2
150°-160°	256.5	3.7
160°-170°	156.9	2.3
170°-180°	53.0	0.8
0°-30°	928.7	13.6
0°-40°	1520.1	22.2
0°-60°	2632.5	38.5
0°-90°	3244.0	47.4
90°-120°	1718.9	25.1
90°-150°	3130.5	45.8
90°-180°	3597.0	52.6
0°-180°	6841.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1250	1250	1250	1250	1250	
5°	1256	1295	1256	1018	1256	119
15°	1199	1283	1199	1072	1199	337
25°	1056	1197	1056	1048	1056	485
35°	803	1068	803	912	803	497
45°	518	880	518	772	518	415
55°	422	650	422	634	422	388
65°	293	392	293	438	293	280
75°	111	186	111	222	111	117
85°	19	47	19	40	19	26
90°	4	14	4	14	4	4
95°	36	164	36	164	36	40
105°	128	1114	128	1114	128	136
115°	228	1434	228	1434	228	225
125°	317	1142	317	1142	317	281
135°	377	886	377	886	377	292
145°	438	719	438	719	438	274
155°	495	619	495	619	495	227
165°	534	576	534	576	534	151
175°	555	559	555	559	555	53
180°	555	555	555	555	555	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1261.0	1261.0	1268.1	1270.4	1270.4	1266.9	1263.4	1266.9	1277.5	1281.1	1279.9
5°	1256.3	1265.7	1278.8	1281.1	1283.4	1282.3	1279.9	1282.3	1294.1	1296.5	1297.7
7.5°	1246.8	1264.5	1281.1	1284.7	1288.2	1284.7	1283.4	1285.8	1297.7	1300.0	1300.0
10°	1235.0	1259.8	1278.8	1281.1	1284.7	1281.1	1281.1	1285.8	1297.7	1300.0	1301.2
12.5°	1218.4	1252.7	1270.4	1272.9	1277.5	1276.4	1275.2	1279.9	1291.8	1294.1	1294.1
15°	1199.4	1239.7	1256.3	1258.6	1266.9	1264.5	1264.5	1269.3	1282.3	1285.8	1284.7
17.5°	1173.5	1223.2	1242.1	1245.6	1251.6	1250.3	1251.6	1256.3	1268.1	1270.4	1271.6
20°	1143.9	1200.7	1223.2	1226.7	1232.6	1232.6	1232.6	1238.5	1250.3	1255.0	1255.0
22.5°	1103.7	1177.0	1200.7	1203.0	1210.1	1210.1	1212.5	1220.8	1231.4	1232.6	1232.6
25°	1056.4	1151.0	1171.1	1178.2	1185.3	1188.8	1192.4	1197.1	1200.7	1199.4	1200.7
27.5°	1006.7	1117.9	1143.9	1148.6	1158.1	1161.7	1166.3	1167.6	1168.7	1172.2	1169.9
30°	951.1	1071.7	1110.7	1115.5	1130.9	1133.2	1128.5	1130.9	1136.8	1139.2	1141.5
32.5°	888.3	1003.1	1076.4	1087.1	1101.3	1094.2	1093.0	1096.6	1106.1	1106.1	1108.4
35°	803.2	949.9	1044.6	1054.0	1064.6	1056.4	1061.0	1062.3	1068.2	1071.7	1070.5
37.5°	709.7	903.7	1011.4	1018.5	1026.7	1016.1	1023.3	1026.7	1031.5	1029.2	1029.2
40°	627.0	831.6	972.4	977.1	984.2	975.9	983.0	985.4	987.7	985.4	984.2
42.5°	565.5	752.3	930.9	936.9	932.1	938.0	940.4	945.2	941.6	936.9	936.9
45°	518.1	731.0	886.0	893.1	886.0	895.5	899.0	899.0	888.3	886.0	884.8
47.5°	502.7	688.5	841.1	841.1	837.5	849.3	855.3	847.0	836.3	832.8	832.8
50°	501.6	641.1	779.5	774.8	791.4	805.6	799.7	791.4	783.1	770.1	770.1
52.5°	455.4	583.2	700.3	718.0	744.1	752.3	742.8	734.6	720.4	714.5	709.7
55°	422.3	522.9	628.2	663.6	690.8	701.5	683.7	675.4	654.1	650.6	648.2
57.5°	415.2	435.3	561.9	606.8	640.0	638.8	628.2	612.8	595.0	591.4	590.3
60°	380.9	314.6	490.9	544.2	578.5	574.9	565.5	551.2	534.7	532.4	529.9
62.5°	345.4	228.3	410.5	470.8	519.3	518.1	509.9	488.6	476.8	470.8	466.1
65°	293.4	191.6	292.1	391.5	461.4	463.7	446.0	430.6	417.6	410.5	409.2
67.5°	223.6	156.1	197.5	326.5	405.8	403.3	380.9	373.8	357.2	353.6	346.6
70°	165.6	104.1	137.3	265.0	351.3	345.4	327.7	319.4	304.0	295.7	291.0
72.5°	137.3	84.0	100.5	205.8	295.7	288.6	273.2	263.8	250.8	243.7	239.0
75°	111.2	88.7	76.9	152.6	240.1	235.4	221.2	211.7	201.1	191.6	192.9
77.5°	81.7	82.8	61.5	112.4	190.4	183.4	175.0	163.2	158.5	149.1	149.1
80°	61.5	65.1	46.1	76.9	137.3	137.3	130.1	121.9	113.5	108.9	108.9
82.5°	41.4	41.4	34.3	48.5	93.5	89.9	85.1	82.8	78.1	75.7	75.7
85°	18.9	23.6	21.3	29.5	50.9	53.3	53.3	50.9	49.7	47.3	48.5
87.5°	5.9	10.7	13.0	16.6	26.1	27.2	28.4	28.4	28.4	29.5	29.5
90°	3.8	6.7	9.7	10.4	16.4	24.4	28.3	25.2	18.9	14.1	14.1
92.5°	14.9	40.2	65.5	71.9	101.1	139.9	159.4	139.7	100.3	70.7	68.0
95°	35.7	82.1	128.5	140.0	248.6	393.4	465.8	415.7	315.4	240.2	231.7
97.5°	61.8	102.7	143.6	153.8	334.9	576.4	697.1	665.4	602.0	554.5	538.3
100°	81.9	119.0	156.1	165.4	366.4	634.3	768.3	770.6	775.2	778.7	759.3
102.5°	99.0	133.7	168.2	176.9	380.8	652.5	788.4	828.8	909.5	970.1	953.5
105°	128.1	157.4	186.7	194.0	391.4	654.6	786.2	876.7	1057.7	1193.5	1184.7
107.5°	157.9	185.2	212.5	219.4	393.4	625.4	741.4	867.7	1120.3	1309.8	1311.9
110°	178.0	202.7	227.3	233.5	390.4	599.6	704.2	845.4	1127.7	1339.5	1348.8



TEST NUMBER: P935258

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	197.8	221.2	244.7	250.6	390.5	577.0	670.3	814.8	1103.7	1320.5	1334.7
115°	227.5	249.2	270.8	276.3	394.1	551.2	629.8	769.0	1047.3	1256.1	1275.8
117.5°	257.0	276.7	296.3	301.3	401.5	535.0	601.8	727.4	978.7	1167.1	1189.0
120°	274.1	292.6	311.1	315.8	407.4	529.6	590.6	705.4	935.0	1107.1	1128.5
122.5°	290.9	309.6	328.3	333.0	416.0	526.7	582.0	685.4	892.1	1047.2	1068.1
125°	316.6	333.6	350.6	354.9	427.5	524.3	572.7	660.6	836.1	967.8	987.2
127.5°	337.4	354.5	371.8	376.1	439.1	523.0	564.9	640.3	791.1	904.2	920.5
130°	348.5	367.1	385.6	390.3	447.5	523.8	562.0	629.1	763.3	864.0	879.0
132.5°	360.1	378.6	397.2	401.8	454.3	524.3	559.3	619.4	739.5	829.7	843.2
135°	377.3	394.1	411.0	415.2	461.8	523.8	554.9	605.2	705.8	781.2	792.9
137.5°	394.7	411.5	428.1	432.3	472.9	527.1	554.1	596.6	681.7	745.5	755.0
140°	409.2	424.6	440.0	443.9	479.8	527.6	551.5	588.2	661.7	716.9	725.7
142.5°	420.4	434.7	448.9	452.5	485.5	529.5	551.5	583.7	648.3	696.7	704.4
145°	437.5	450.0	462.3	465.5	493.0	529.6	547.8	574.3	627.0	666.6	672.4
147.5°	454.7	466.8	478.8	481.9	503.9	533.2	547.8	568.6	610.2	641.3	646.1
150°	465.8	476.8	487.7	490.5	509.6	535.1	547.8	565.4	600.4	626.7	630.6
152.5°	477.4	485.6	493.9	496.0	513.3	536.3	547.8	562.8	592.7	615.2	618.1
155°	494.6	500.7	506.8	508.4	521.5	539.1	547.8	559.7	583.6	601.4	603.4
157.5°	507.2	513.2	519.1	520.6	529.7	541.8	547.8	557.1	575.6	589.5	590.8
160°	515.8	520.4	525.0	526.2	533.4	543.0	547.8	555.8	571.7	583.6	584.4
162.5°	524.3	527.8	531.3	532.2	537.4	544.3	547.8	554.6	567.9	577.9	578.6
165°	533.6	536.7	539.9	540.7	543.1	546.2	547.8	552.7	562.3	569.4	570.2
167.5°	542.2	543.7	545.2	545.6	547.6	550.2	551.5	554.6	560.9	565.7	566.0
170°	547.8	549.3	550.8	551.2	551.2	551.4	551.5	554.6	560.9	565.7	565.7
172.5°	550.8	551.2	551.4	551.5	551.5	551.5	551.5	554.0	558.9	562.7	562.4
175°	554.9	554.9	554.9	554.9	553.8	552.2	551.5	553.1	556.3	558.6	558.6
177.5°	554.9	554.9	554.9	554.9	554.0	552.9	552.2	553.5	556.0	557.9	557.5
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1282.3	1278.8	1282.3	1279.9	1281.1	1277.5	1266.9	1263.4	1266.9	1270.4	1270.4
5°	1297.7	1295.3	1297.7	1297.7	1296.5	1294.1	1282.3	1279.9	1282.3	1283.4	1281.1
7.5°	1302.4	1298.8	1302.4	1300.0	1300.0	1297.7	1285.8	1283.4	1284.7	1288.2	1284.7
10°	1302.4	1298.8	1302.4	1301.2	1300.0	1297.7	1285.8	1281.1	1281.1	1284.7	1281.1
12.5°	1296.5	1294.1	1296.5	1294.1	1294.1	1291.8	1279.9	1275.2	1276.4	1277.5	1272.9
15°	1287.0	1283.4	1287.0	1284.7	1285.8	1282.3	1269.3	1264.5	1264.5	1266.9	1258.6
17.5°	1272.9	1268.1	1272.9	1271.6	1270.4	1268.1	1256.3	1251.6	1250.3	1251.6	1245.6
20°	1256.3	1252.7	1256.3	1255.0	1255.0	1250.3	1238.5	1232.6	1232.6	1232.6	1226.7
22.5°	1230.2	1226.7	1230.2	1232.6	1232.6	1231.4	1220.8	1212.5	1210.1	1210.1	1203.0
25°	1200.7	1197.1	1200.7	1200.7	1199.4	1200.7	1197.1	1192.4	1188.8	1185.3	1178.2
27.5°	1172.2	1169.9	1172.2	1169.9	1172.2	1168.7	1167.6	1166.3	1161.7	1158.1	1148.6
30°	1143.9	1141.5	1143.9	1141.5	1139.2	1136.8	1130.9	1128.5	1133.2	1130.9	1115.5
32.5°	1108.4	1106.1	1108.4	1108.4	1106.1	1106.1	1096.6	1093.0	1094.2	1101.3	1087.1
35°	1071.7	1068.2	1071.7	1070.5	1071.7	1068.2	1062.3	1061.0	1056.4	1064.6	1054.0
37.5°	1029.2	1025.6	1029.2	1029.2	1029.2	1031.5	1026.7	1023.3	1016.1	1026.7	1018.5
40°	985.4	980.6	985.4	984.2	985.4	987.7	985.4	983.0	975.9	984.2	977.1
42.5°	935.7	934.5	935.7	936.9	936.9	941.6	945.2	940.4	938.0	932.1	936.9
45°	882.4	880.1	882.4	884.8	886.0	888.3	899.0	899.0	895.5	886.0	893.1
47.5°	825.7	819.7	825.7	832.8	832.8	836.3	847.0	855.3	849.3	837.5	841.1
50°	765.3	766.6	765.3	770.1	770.1	783.1	791.4	799.7	805.6	791.4	774.8
52.5°	706.2	705.1	706.2	709.7	714.5	720.4	734.6	742.8	752.3	744.1	718.0
55°	647.0	649.5	647.0	648.2	650.6	654.1	675.4	683.7	701.5	690.8	663.6
57.5°	588.0	584.4	588.0	590.3	591.4	595.0	612.8	628.2	638.8	640.0	606.8
60°	519.3	514.5	519.3	529.9	532.4	534.7	551.2	565.5	574.9	578.5	544.2
62.5°	458.9	450.7	458.9	466.1	470.8	476.8	488.6	509.9	518.1	519.3	470.8
65°	395.1	391.5	395.1	409.2	410.5	417.6	430.6	446.0	463.7	461.4	391.5
67.5°	337.2	337.2	337.2	346.6	353.6	357.2	373.8	380.9	403.3	405.8	326.5
70°	283.9	282.7	283.9	291.0	295.7	304.0	319.4	327.7	345.4	351.3	265.0
72.5°	233.0	231.9	233.0	239.0	243.7	250.8	263.8	273.2	288.6	295.7	205.8
75°	188.1	185.7	188.1	192.9	191.6	201.1	211.7	221.2	235.4	240.1	152.6
77.5°	144.3	144.3	144.3	149.1	149.1	158.5	163.2	175.0	183.4	190.4	112.4
80°	107.6	106.5	107.6	108.9	108.9	113.5	121.9	130.1	137.3	137.3	76.9
82.5°	75.7	73.3	75.7	75.7	75.7	78.1	82.8	85.1	89.9	93.5	48.5
85°	47.3	47.3	47.3	48.5	47.3	49.7	50.9	53.3	53.3	50.9	29.5
87.5°	30.8	29.5	30.8	29.5	29.5	28.4	28.4	28.4	27.2	26.1	16.6
90°	14.1	14.1	14.1	14.1	14.1	18.9	25.2	28.3	24.4	16.4	10.4
92.5°	56.7	45.4	56.7	68.0	70.7	100.3	139.7	159.4	139.9	101.1	71.9
95°	197.6	163.5	197.6	231.7	240.2	315.4	415.7	465.8	393.4	248.6	140.0
97.5°	473.4	408.5	473.4	538.3	554.5	602.0	665.4	697.1	576.4	334.9	153.8
100°	682.0	604.8	682.0	759.3	778.7	775.2	770.6	768.3	634.3	366.4	165.4
102.5°	887.3	821.2	887.3	953.5	970.1	909.5	828.8	788.4	652.5	380.8	176.9
105°	1149.0	1113.5	1149.0	1184.7	1193.5	1057.7	876.7	786.2	654.6	391.4	194.0
107.5°	1320.5	1329.1	1320.5	1311.9	1309.8	1120.3	867.7	741.4	625.4	393.4	219.4
110°	1385.9	1422.9	1385.9	1348.8	1339.5	1127.7	845.4	704.2	599.6	390.4	233.5





TEST NUMBER: P935258

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1391.7	1448.6	1391.7	1334.7	1320.5	1103.7	814.8	670.3	577.0	390.5	250.6
115°	1354.8	1433.8	1354.8	1275.8	1256.1	1047.3	769.0	629.8	551.2	394.1	276.3
117.5°	1276.5	1364.1	1276.5	1189.0	1167.1	978.7	727.4	601.8	535.0	401.5	301.3
120°	1213.5	1298.6	1213.5	1128.5	1107.1	935.0	705.4	590.6	529.6	407.4	315.8
122.5°	1152.1	1236.0	1152.1	1068.1	1047.2	892.1	685.4	582.0	526.7	416.0	333.0
125°	1064.4	1141.8	1064.4	987.2	967.8	836.1	660.6	572.7	524.3	427.5	354.9
127.5°	985.7	1050.9	985.7	920.5	904.2	791.1	640.3	564.9	523.0	439.1	376.1
130°	939.3	999.5	939.3	879.0	864.0	763.3	629.1	562.0	523.8	447.5	390.3
132.5°	897.1	951.1	897.1	843.2	829.7	739.5	619.4	559.3	524.3	454.3	401.8
135°	839.4	885.9	839.4	792.9	781.2	705.8	605.2	554.9	523.8	461.8	415.2
137.5°	793.2	831.2	793.2	755.0	745.5	681.7	596.6	554.1	527.1	472.9	432.3
140°	761.4	796.9	761.4	725.7	716.9	661.7	588.2	551.5	527.6	479.8	443.9
142.5°	735.1	765.7	735.1	704.4	696.7	648.3	583.7	551.5	529.5	485.5	452.5
145°	695.6	718.8	695.6	672.4	666.6	627.0	574.3	547.8	529.6	493.0	465.5
147.5°	665.3	684.5	665.3	646.1	641.3	610.2	568.6	547.8	533.2	503.9	481.9
150°	646.1	661.7	646.1	630.6	626.7	600.4	565.4	547.8	535.1	509.6	490.5
152.5°	629.9	641.7	629.9	618.1	615.2	592.7	562.8	547.8	536.3	513.3	496.0
155°	611.1	618.9	611.1	603.4	601.4	583.6	559.7	547.8	539.1	521.5	508.4
157.5°	596.4	601.8	596.4	590.8	589.5	575.6	557.1	547.8	541.8	529.7	520.6
160°	587.5	590.6	587.5	584.4	583.6	571.7	555.8	547.8	543.0	533.4	526.2
162.5°	581.7	584.6	581.7	578.6	577.9	567.9	554.6	547.8	544.3	537.4	532.2
165°	573.4	576.5	573.4	570.2	569.4	562.3	552.7	547.8	546.2	543.1	540.7
167.5°	567.3	568.6	567.3	566.0	565.7	560.9	554.6	551.5	550.2	547.6	545.6
170°	565.7	565.7	565.7	565.7	565.7	560.9	554.6	551.5	551.4	551.2	551.2
172.5°	561.3	560.1	561.3	562.4	562.7	558.9	554.0	551.5	551.5	551.5	551.5
175°	558.6	558.6	558.6	558.6	558.6	556.3	553.1	551.5	552.2	553.8	554.9
177.5°	556.3	554.9	556.3	557.5	557.9	556.0	553.5	552.2	552.9	554.0	554.9
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935258

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1268.1	1261.0	1261.0	1249.1	1244.4	1240.9	1235.0	1217.3	1212.5	1207.8	1214.8
5°	1278.8	1265.7	1256.3	1235.0	1217.3	1210.1	1187.6	1145.1	1116.6	1095.4	1083.6
7.5°	1281.1	1264.5	1246.8	1213.7	1171.1	1152.2	1083.6	1005.5	984.2	965.2	953.4
10°	1278.8	1259.8	1235.0	1185.3	1084.8	1051.6	983.0	932.1	919.1	915.5	919.1
12.5°	1270.4	1252.7	1218.4	1135.6	994.9	972.4	932.1	902.6	900.2	906.1	938.0
15°	1256.3	1239.7	1199.4	1069.4	945.2	928.6	900.2	889.6	902.6	943.9	1039.8
17.5°	1242.1	1223.2	1173.5	1004.3	907.3	895.5	875.3	896.7	970.0	1025.6	1057.5
20°	1223.2	1200.7	1143.9	957.0	880.1	869.4	859.9	955.8	1011.4	1031.5	1049.2
22.5°	1200.7	1177.0	1103.7	923.9	851.7	843.4	849.3	989.0	1011.4	1025.6	1041.0
25°	1171.1	1151.0	1056.4	897.8	829.2	819.7	842.2	985.4	998.4	1001.9	1032.7
27.5°	1143.9	1117.9	1006.7	874.2	802.0	798.4	848.1	970.0	979.5	983.0	1016.1
30°	1110.7	1071.7	951.1	849.3	773.6	772.5	849.3	951.1	948.7	958.2	991.3
32.5°	1076.4	1003.1	888.3	818.6	746.4	745.3	841.1	922.7	920.3	933.4	958.2
35°	1044.6	949.9	803.2	783.1	712.1	713.3	820.9	889.6	890.7	902.6	918.0
37.5°	1011.4	903.7	709.7	744.1	679.0	679.0	793.7	858.8	856.5	859.9	881.3
40°	972.4	831.6	627.0	693.2	648.2	644.7	760.7	825.7	817.4	816.3	845.8
42.5°	930.9	752.3	565.5	625.7	612.8	608.0	720.4	785.5	770.1	773.6	811.5
45°	886.0	731.0	518.1	528.8	576.0	572.6	676.6	739.3	728.7	738.2	777.2
47.5°	841.1	688.5	502.7	438.9	537.0	535.8	628.2	694.4	688.5	697.9	739.3
50°	779.5	641.1	501.6	376.2	493.3	498.0	570.1	650.6	650.6	658.9	702.6
52.5°	700.3	583.2	455.4	340.7	442.4	456.6	519.3	612.8	615.1	623.4	662.4
55°	628.2	522.9	422.3	313.4	382.1	412.8	469.6	573.7	578.5	586.7	622.2
57.5°	561.9	435.3	415.2	281.6	326.5	356.1	425.8	535.8	538.3	545.3	579.6
60°	490.9	314.6	380.9	247.2	278.0	300.5	385.6	490.9	499.2	503.9	533.5
62.5°	410.5	228.3	345.4	223.6	254.4	259.1	352.5	448.3	458.9	462.5	480.2
65°	292.1	191.6	293.4	203.5	229.5	230.6	317.0	404.6	414.0	419.9	433.0
67.5°	197.5	156.1	223.6	184.5	210.6	211.7	282.7	353.6	366.7	371.5	379.7
70°	137.3	104.1	165.6	164.5	189.3	191.6	246.0	307.5	319.4	322.9	327.7
72.5°	100.5	84.0	137.3	147.9	166.8	169.1	208.2	255.5	267.3	270.9	273.2
75°	76.9	88.7	111.2	128.9	141.9	143.2	170.4	208.2	216.5	218.8	220.0
77.5°	61.5	82.8	81.7	104.1	115.9	113.5	133.7	160.9	168.0	168.0	168.0
80°	46.1	65.1	61.5	74.5	85.1	82.8	95.8	114.8	117.1	119.4	118.3
82.5°	34.3	41.4	41.4	47.3	56.8	54.4	63.8	74.5	74.5	74.5	76.9
85°	21.3	23.6	18.9	24.8	32.0	30.8	35.5	40.2	41.4	41.4	39.0
87.5°	13.0	10.7	5.9	9.5	14.2	14.2	16.6	17.7	16.6	16.6	16.6
90°	9.7	6.7	3.8	6.7	9.7	10.4	16.4	24.4	28.3	25.2	18.9
92.5°	65.5	40.2	14.9	40.2	65.5	71.9	101.1	139.9	159.4	139.7	100.3
95°	128.5	82.1	35.7	82.1	128.5	140.0	248.6	393.4	465.8	415.7	315.4
97.5°	143.6	102.7	61.8	102.7	143.6	153.8	334.9	576.4	697.1	665.4	602.0
100°	156.1	119.0	81.9	119.0	156.1	165.4	366.4	634.3	768.3	770.6	775.2
102.5°	168.2	133.7	99.0	133.7	168.2	176.9	380.8	652.5	788.4	828.8	909.5
105°	186.7	157.4	128.1	157.4	186.7	194.0	391.4	654.6	786.2	876.7	1057.7
107.5°	212.5	185.2	157.9	185.2	212.5	219.4	393.4	625.4	741.4	867.7	1120.3
110°	227.3	202.7	178.0	202.7	227.3	233.5	390.4	599.6	704.2	845.4	1127.7



TEST NUMBER: P935258

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	244.7	221.2	197.8	221.2	244.7	250.6	390.5	577.0	670.3	814.8	1103.7
115°	270.8	249.2	227.5	249.2	270.8	276.3	394.1	551.2	629.8	769.0	1047.3
117.5°	296.3	276.7	257.0	276.7	296.3	301.3	401.5	535.0	601.8	727.4	978.7
120°	311.1	292.6	274.1	292.6	311.1	315.8	407.4	529.6	590.6	705.4	935.0
122.5°	328.3	309.6	290.9	309.6	328.3	333.0	416.0	526.7	582.0	685.4	892.1
125°	350.6	333.6	316.6	333.6	350.6	354.9	427.5	524.3	572.7	660.6	836.1
127.5°	371.8	354.5	337.4	354.5	371.8	376.1	439.1	523.0	564.9	640.3	791.1
130°	385.6	367.1	348.5	367.1	385.6	390.3	447.5	523.8	562.0	629.1	763.3
132.5°	397.2	378.6	360.1	378.6	397.2	401.8	454.3	524.3	559.3	619.4	739.5
135°	411.0	394.1	377.3	394.1	411.0	415.2	461.8	523.8	554.9	605.2	705.8
137.5°	428.1	411.5	394.7	411.5	428.1	432.3	472.9	527.1	554.1	596.6	681.7
140°	440.0	424.6	409.2	424.6	440.0	443.9	479.8	527.6	551.5	588.2	661.7
142.5°	448.9	434.7	420.4	434.7	448.9	452.5	485.5	529.5	551.5	583.7	648.3
145°	462.3	450.0	437.5	450.0	462.3	465.5	493.0	529.6	547.8	574.3	627.0
147.5°	478.8	466.8	454.7	466.8	478.8	481.9	503.9	533.2	547.8	568.6	610.2
150°	487.7	476.8	465.8	476.8	487.7	490.5	509.6	535.1	547.8	565.4	600.4
152.5°	493.9	485.6	477.4	485.6	493.9	496.0	513.3	536.3	547.8	562.8	592.7
155°	506.8	500.7	494.6	500.7	506.8	508.4	521.5	539.1	547.8	559.7	583.6
157.5°	519.1	513.2	507.2	513.2	519.1	520.6	529.7	541.8	547.8	557.1	575.6
160°	525.0	520.4	515.8	520.4	525.0	526.2	533.4	543.0	547.8	555.8	571.7
162.5°	531.3	527.8	524.3	527.8	531.3	532.2	537.4	544.3	547.8	554.6	567.9
165°	539.9	536.7	533.6	536.7	539.9	540.7	543.1	546.2	547.8	552.7	562.3
167.5°	545.2	543.7	542.2	543.7	545.2	545.6	547.6	550.2	551.5	554.6	560.9
170°	550.8	549.3	547.8	549.3	550.8	551.2	551.2	551.4	551.5	554.6	560.9
172.5°	551.4	551.2	550.8	551.2	551.4	551.5	551.5	551.5	551.5	554.0	558.9
175°	554.9	554.9	554.9	554.9	554.9	554.9	553.8	552.2	551.5	553.1	556.3
177.5°	554.9	554.9	554.9	554.9	554.9	554.9	554.0	552.9	552.2	553.5	556.0
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935258

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1206.6	1203.0	1207.8	1194.7	1207.8	1203.0	1206.6	1214.8	1207.8	1212.5	1217.3
5°	1058.7	1052.8	1033.9	1018.5	1033.9	1052.8	1058.7	1083.6	1095.4	1116.6	1145.1
7.5°	946.3	941.6	936.9	927.4	936.9	941.6	946.3	953.4	965.2	984.2	1005.5
10°	921.5	922.7	929.8	928.6	929.8	922.7	921.5	919.1	915.5	919.1	932.1
12.5°	985.4	996.0	1035.1	1032.7	1035.1	996.0	985.4	938.0	906.1	900.2	902.6
15°	1058.7	1062.3	1070.5	1071.7	1070.5	1062.3	1058.7	1039.8	943.9	902.6	889.6
17.5°	1065.8	1067.0	1072.9	1072.9	1072.9	1067.0	1065.8	1057.5	1025.6	970.0	896.7
20°	1059.9	1062.3	1074.1	1076.4	1074.1	1062.3	1059.9	1049.2	1031.5	1011.4	955.8
22.5°	1057.5	1062.3	1071.7	1070.5	1071.7	1062.3	1057.5	1041.0	1025.6	1011.4	989.0
25°	1045.7	1045.7	1046.9	1048.1	1046.9	1045.7	1045.7	1032.7	1001.9	998.4	985.4
27.5°	1020.8	1023.3	1030.3	1029.2	1030.3	1023.3	1020.8	1016.1	983.0	979.5	970.0
30°	998.4	996.0	990.1	985.4	990.1	996.0	998.4	991.3	958.2	948.7	951.1
32.5°	960.5	954.6	948.7	945.2	948.7	954.6	960.5	958.2	933.4	920.3	922.7
35°	915.5	916.8	915.5	912.1	915.5	916.8	915.5	918.0	902.6	890.7	889.6
37.5°	883.7	886.0	884.8	880.1	884.8	886.0	883.7	881.3	859.9	856.5	858.8
40°	850.5	851.7	850.5	847.0	850.5	851.7	850.5	845.8	816.3	817.4	825.7
42.5°	818.6	817.4	813.8	811.5	813.8	817.4	818.6	811.5	773.6	770.1	785.5
45°	781.9	783.1	776.0	772.5	776.0	783.1	781.9	777.2	738.2	728.7	739.3
47.5°	745.3	745.3	739.3	735.8	739.3	745.3	745.3	739.3	697.9	688.5	694.4
50°	706.2	705.1	696.7	695.6	696.7	705.1	706.2	702.6	658.9	650.6	650.6
52.5°	661.3	661.3	662.4	664.8	662.4	661.3	661.3	662.4	623.4	615.1	612.8
55°	622.2	623.4	631.6	634.1	631.6	623.4	622.2	622.2	586.7	578.5	573.7
57.5°	582.0	582.0	588.0	588.0	588.0	582.0	582.0	579.6	545.3	538.3	535.8
60°	535.8	538.3	542.9	541.8	542.9	538.3	535.8	533.5	503.9	499.2	490.9
62.5°	487.3	489.7	490.9	488.6	490.9	489.7	487.3	480.2	462.5	458.9	448.3
65°	436.5	438.9	440.0	437.7	440.0	438.9	436.5	433.0	419.9	414.0	404.6
67.5°	384.4	383.3	382.1	386.8	382.1	383.3	384.4	379.7	371.5	366.7	353.6
70°	331.2	331.2	330.0	332.4	330.0	331.2	331.2	327.7	322.9	319.4	307.5
72.5°	274.4	273.2	278.0	274.4	278.0	273.2	274.4	273.2	270.9	267.3	255.5
75°	218.8	221.2	218.8	222.4	218.8	221.2	218.8	220.0	218.8	216.5	208.2
77.5°	166.8	169.1	166.8	166.8	166.8	169.1	166.8	168.0	168.0	168.0	160.9
80°	118.3	117.1	117.1	115.9	117.1	117.1	118.3	118.3	119.4	117.1	114.8
82.5°	75.7	74.5	74.5	76.9	74.5	74.5	75.7	76.9	74.5	74.5	74.5
85°	41.4	42.6	40.2	40.2	40.2	42.6	41.4	39.0	41.4	41.4	40.2
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.6	16.6	16.6	17.7
90°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	18.9	25.2	28.3	24.4
92.5°	70.7	68.0	56.7	45.4	56.7	68.0	70.7	100.3	139.7	159.4	139.9
95°	240.2	231.7	197.6	163.5	197.6	231.7	240.2	315.4	415.7	465.8	393.4
97.5°	554.5	538.3	473.4	408.5	473.4	538.3	554.5	602.0	665.4	697.1	576.4
100°	778.7	759.3	682.0	604.8	682.0	759.3	778.7	775.2	770.6	768.3	634.3
102.5°	970.1	953.5	887.3	821.2	887.3	953.5	970.1	909.5	828.8	788.4	652.5
105°	1193.5	1184.7	1149.0	1113.5	1149.0	1184.7	1193.5	1057.7	876.7	786.2	654.6
107.5°	1309.8	1311.9	1320.5	1329.1	1320.5	1311.9	1309.8	1120.3	867.7	741.4	625.4
110°	1339.5	1348.8	1385.9	1422.9	1385.9	1348.8	1339.5	1127.7	845.4	704.2	599.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1320.5	1334.7	1391.7	1448.6	1391.7	1334.7	1320.5	1103.7	814.8	670.3	577.0
115°	1256.1	1275.8	1354.8	1433.8	1354.8	1275.8	1256.1	1047.3	769.0	629.8	551.2
117.5°	1167.1	1189.0	1276.5	1364.1	1276.5	1189.0	1167.1	978.7	727.4	601.8	535.0
120°	1107.1	1128.5	1213.5	1298.6	1213.5	1128.5	1107.1	935.0	705.4	590.6	529.6
122.5°	1047.2	1068.1	1152.1	1236.0	1152.1	1068.1	1047.2	892.1	685.4	582.0	526.7
125°	967.8	987.2	1064.4	1141.8	1064.4	987.2	967.8	836.1	660.6	572.7	524.3
127.5°	904.2	920.5	985.7	1050.9	985.7	920.5	904.2	791.1	640.3	564.9	523.0
130°	864.0	879.0	939.3	999.5	939.3	879.0	864.0	763.3	629.1	562.0	523.8
132.5°	829.7	843.2	897.1	951.1	897.1	843.2	829.7	739.5	619.4	559.3	524.3
135°	781.2	792.9	839.4	885.9	839.4	792.9	781.2	705.8	605.2	554.9	523.8
137.5°	745.5	755.0	793.2	831.2	793.2	755.0	745.5	681.7	596.6	554.1	527.1
140°	716.9	725.7	761.4	796.9	761.4	725.7	716.9	661.7	588.2	551.5	527.6
142.5°	696.7	704.4	735.1	765.7	735.1	704.4	696.7	648.3	583.7	551.5	529.5
145°	666.6	672.4	695.6	718.8	695.6	672.4	666.6	627.0	574.3	547.8	529.6
147.5°	641.3	646.1	665.3	684.5	665.3	646.1	641.3	610.2	568.6	547.8	533.2
150°	626.7	630.6	646.1	661.7	646.1	630.6	626.7	600.4	565.4	547.8	535.1
152.5°	615.2	618.1	629.9	641.7	629.9	618.1	615.2	592.7	562.8	547.8	536.3
155°	601.4	603.4	611.1	618.9	611.1	603.4	601.4	583.6	559.7	547.8	539.1
157.5°	589.5	590.8	596.4	601.8	596.4	590.8	589.5	575.6	557.1	547.8	541.8
160°	583.6	584.4	587.5	590.6	587.5	584.4	583.6	571.7	555.8	547.8	543.0
162.5°	577.9	578.6	581.7	584.6	581.7	578.6	577.9	567.9	554.6	547.8	544.3
165°	569.4	570.2	573.4	576.5	573.4	570.2	569.4	562.3	552.7	547.8	546.2
167.5°	565.7	566.0	567.3	568.6	567.3	566.0	565.7	560.9	554.6	551.5	550.2
170°	565.7	565.7	565.7	565.7	565.7	565.7	565.7	560.9	554.6	551.5	551.4
172.5°	562.7	562.4	561.3	560.1	561.3	562.4	562.7	558.9	554.0	551.5	551.5
175°	558.6	558.6	558.6	558.6	558.6	558.6	558.6	556.3	553.1	551.5	552.2
177.5°	557.9	557.5	556.3	554.9	556.3	557.5	557.9	556.0	553.5	552.2	552.9
180°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9	554.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1235.0	1240.9	1244.4	1249.1	1261.0
5°	1187.6	1210.1	1217.3	1235.0	1256.3
7.5°	1083.6	1152.2	1171.1	1213.7	1246.8
10°	983.0	1051.6	1084.8	1185.3	1235.0
12.5°	932.1	972.4	994.9	1135.6	1218.4
15°	900.2	928.6	945.2	1069.4	1199.4
17.5°	875.3	895.5	907.3	1004.3	1173.5
20°	859.9	869.4	880.1	957.0	1143.9
22.5°	849.3	843.4	851.7	923.9	1103.7
25°	842.2	819.7	829.2	897.8	1056.4
27.5°	848.1	798.4	802.0	874.2	1006.7
30°	849.3	772.5	773.6	849.3	951.1
32.5°	841.1	745.3	746.4	818.6	888.3
35°	820.9	713.3	712.1	783.1	803.2
37.5°	793.7	679.0	679.0	744.1	709.7
40°	760.7	644.7	648.2	693.2	627.0
42.5°	720.4	608.0	612.8	625.7	565.5
45°	676.6	572.6	576.0	528.8	518.1
47.5°	628.2	535.8	537.0	438.9	502.7
50°	570.1	498.0	493.3	376.2	501.6
52.5°	519.3	456.6	442.4	340.7	455.4
55°	469.6	412.8	382.1	313.4	422.3
57.5°	425.8	356.1	326.5	281.6	415.2
60°	385.6	300.5	278.0	247.2	380.9
62.5°	352.5	259.1	254.4	223.6	345.4
65°	317.0	230.6	229.5	203.5	293.4
67.5°	282.7	211.7	210.6	184.5	223.6
70°	246.0	191.6	189.3	164.5	165.6
72.5°	208.2	169.1	166.8	147.9	137.3
75°	170.4	143.2	141.9	128.9	111.2
77.5°	133.7	113.5	115.9	104.1	81.7
80°	95.8	82.8	85.1	74.5	61.5
82.5°	63.8	54.4	56.8	47.3	41.4
85°	35.5	30.8	32.0	24.8	18.9
87.5°	16.6	14.2	14.2	9.5	5.9
90°	16.4	10.4	9.7	6.7	3.8
92.5°	101.1	71.9	65.5	40.2	14.9
95°	248.6	140.0	128.5	82.1	35.7
97.5°	334.9	153.8	143.6	102.7	61.8
100°	366.4	165.4	156.1	119.0	81.9
102.5°	380.8	176.9	168.2	133.7	99.0
105°	391.4	194.0	186.7	157.4	128.1
107.5°	393.4	219.4	212.5	185.2	157.9
110°	390.4	233.5	227.3	202.7	178.0



TEST NUMBER: P935258

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	390.5	250.6	244.7	221.2	197.8
115°	394.1	276.3	270.8	249.2	227.5
117.5°	401.5	301.3	296.3	276.7	257.0
120°	407.4	315.8	311.1	292.6	274.1
122.5°	416.0	333.0	328.3	309.6	290.9
125°	427.5	354.9	350.6	333.6	316.6
127.5°	439.1	376.1	371.8	354.5	337.4
130°	447.5	390.3	385.6	367.1	348.5
132.5°	454.3	401.8	397.2	378.6	360.1
135°	461.8	415.2	411.0	394.1	377.3
137.5°	472.9	432.3	428.1	411.5	394.7
140°	479.8	443.9	440.0	424.6	409.2
142.5°	485.5	452.5	448.9	434.7	420.4
145°	493.0	465.5	462.3	450.0	437.5
147.5°	503.9	481.9	478.8	466.8	454.7
150°	509.6	490.5	487.7	476.8	465.8
152.5°	513.3	496.0	493.9	485.6	477.4
155°	521.5	508.4	506.8	500.7	494.6
157.5°	529.7	520.6	519.1	513.2	507.2
160°	533.4	526.2	525.0	520.4	515.8
162.5°	537.4	532.2	531.3	527.8	524.3
165°	543.1	540.7	539.9	536.7	533.6
167.5°	547.6	545.6	545.2	543.7	542.2
170°	551.2	551.2	550.8	549.3	547.8
172.5°	551.5	551.5	551.4	551.2	550.8
175°	553.8	554.9	554.9	554.9	554.9
177.5°	554.0	554.9	554.9	554.9	554.9
180°	554.9	554.9	554.9	554.9	554.9



TEST NUMBER: P935258  
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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	13.07	13.90	14.04	14.90	16.20	15.86	16.70	16.84	17.69	19.00
	3H	13.54	14.29	14.53	15.29	16.62	17.20	17.95	18.19	18.95	20.28
	4H	13.73	14.44	14.74	15.45	16.79	17.63	18.35	18.64	19.35	20.69
	6H	13.85	14.51	14.86	15.51	16.86	17.91	18.57	18.92	19.57	20.92
	8H	13.85	14.47	14.87	15.50	16.85	17.98	18.60	19.00	19.63	20.98
	12H	13.82	14.41	14.85	15.43	16.80	18.01	18.61	19.04	19.63	21.00
4H	2H	14.09	14.80	15.10	15.80	17.14	16.27	16.98	17.28	17.99	19.33
	3H	15.11	15.71	16.13	16.74	18.09	17.77	18.36	18.78	19.39	20.74
	4H	15.39	15.93	16.41	16.96	18.33	18.29	18.83	19.31	19.85	21.23
	6H	15.51	15.98	16.55	17.03	18.40	18.64	19.11	19.68	20.16	21.53
	8H	15.52	15.95	16.56	17.00	18.38	18.74	19.18	19.78	20.22	21.61
	12H	15.48	15.88	16.54	16.93	18.32	18.79	19.19	19.85	20.24	21.64
8H	4H	15.84	16.27	16.87	17.31	18.70	18.41	18.85	19.45	19.89	21.27
	6H	16.10	16.46	17.16	17.54	18.92	18.84	19.20	19.90	20.28	21.66
	8H	16.14	16.45	17.21	17.52	18.92	18.98	19.30	20.05	20.37	21.77
	12H	16.12	16.40	17.19	17.46	18.91	19.08	19.35	20.15	20.42	21.86
12H	4H	15.84	16.23	16.90	17.29	18.68	18.37	18.77	19.43	19.82	21.21
	6H	16.15	16.47	17.22	17.54	18.94	18.83	19.15	19.90	20.22	21.62
	8H	16.22	16.50	17.29	17.56	19.01	18.99	19.27	20.06	20.33	21.77