

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: P934257

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

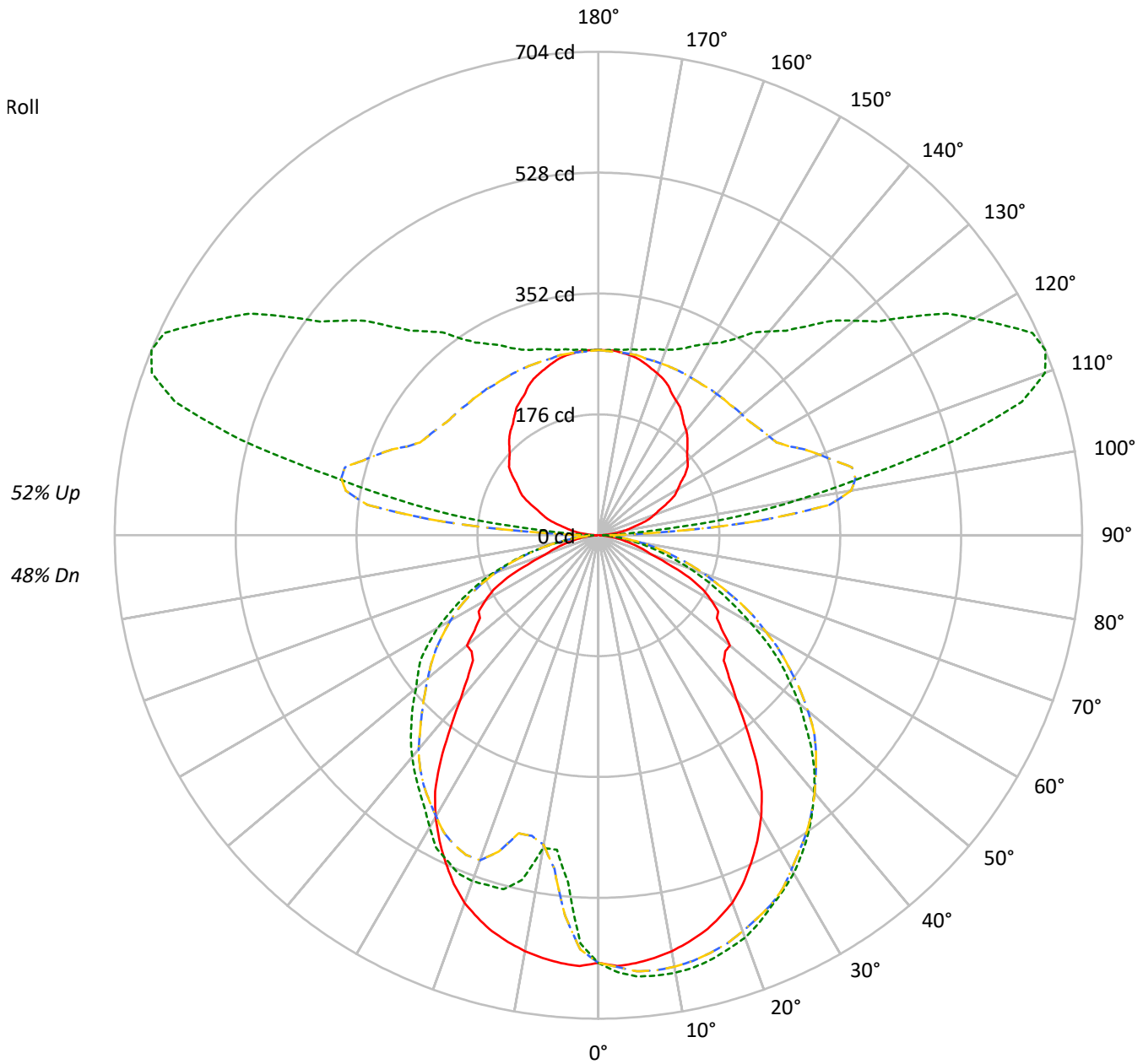
Test Method: LM-79-2019  
Report Number: P934257  
REPORT IS A COMBINATION OF REPORTS P933690 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3363.9 lumens  
Efficiency: N/A  
Efficacy: 118.4 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): 28.4  
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: P934257  
CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

### Luminous Intensity Polar Plot



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



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**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	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12

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

	0°	90°	180°	270°
0°	5777	5777	5777	5777
5°	5814	5832	5814	4585
10°	5769	5745	5769	4107
15°	5699	5620	5699	4693
20°	5574	5473	5574	4703
25°	5323	5258	5323	4603
30°	5002	5079	5002	4385
35°	4453	4853	4453	4144
40°	3703	4587	3703	3963
45°	3303	4277	3303	3753
50°	3502	3905	3502	3543
55°	3285	3506	3285	3422
60°	3374	2977	3374	3135
65°	3045	2461	3045	2750
70°	2094	1962	2094	2307
75°	1813	1450	1813	1737
80°	1437	958	1437	1043
85°	778	506	778	431

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5072 cd/sqm



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.2	1.7
10°-20°	159.6	4.7
20°-30°	246.7	7.3
30°-40°	294.5	8.8
40°-50°	296.2	8.8
50°-60°	257.7	7.7
60°-70°	182.7	5.4
70°-80°	96.7	2.9
80°-90°	25.1	0.7
90°-100°	131.5	3.9
100°-110°	345.7	10.3
110°-120°	358.4	10.7
120°-130°	287.5	8.5
130°-140°	225.6	6.7
140°-150°	173.1	5.1
150°-160°	124.7	3.7
160°-170°	76.3	2.3
170°-180°	25.8	0.8
0°-30°	462.4	13.7
0°-40°	756.9	22.5
0°-60°	1310.8	39.0
0°-90°	1615.4	48.0
90°-120°	835.6	24.8
90°-150°	1521.8	45.2
90°-180°	1749.0	52.0
0°-180°	3363.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	623	623	623	623	623	
5°	626	645	626	507	626	59
15°	597	639	597	534	597	168
25°	526	596	526	522	526	242
35°	400	532	400	454	400	247
45°	258	438	258	385	258	207
55°	210	323	210	316	210	193
65°	146	195	146	218	146	140
75°	55	92	55	111	55	58
85°	9	24	9	20	9	13
90°	2	7	2	7	2	2
95°	17	80	17	80	17	19
105°	62	541	62	541	62	66
115°	111	697	111	697	111	109
125°	154	555	154	555	154	137
135°	183	431	183	431	183	142
145°	213	349	213	349	213	133
155°	240	301	240	301	240	110
165°	260	280	260	280	260	73
175°	270	272	270	272	270	26
180°	270	270	270	270	270	



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	627.9	627.9	631.4	632.6	632.6	630.9	629.1	630.9	636.2	637.9	637.3
5°	625.5	630.3	636.8	637.9	639.1	638.5	637.3	638.5	644.4	645.6	646.2
7.5°	620.9	629.7	637.9	639.7	641.4	639.7	639.1	640.3	646.2	647.3	647.3
10°	615.0	627.3	636.8	637.9	639.7	637.9	637.9	640.3	646.2	647.3	647.9
12.5°	606.7	623.8	632.6	633.8	636.2	635.5	635.0	637.3	643.3	644.4	644.4
15°	597.2	617.3	625.5	626.8	630.9	629.7	629.7	632.0	638.5	640.3	639.7
17.5°	584.3	609.1	618.5	620.3	623.2	622.6	623.2	625.5	631.4	632.6	633.3
20°	569.6	597.9	609.1	610.9	613.8	613.8	613.8	616.7	622.6	625.0	625.0
22.5°	549.6	586.1	597.9	599.1	602.6	602.6	603.7	607.9	613.1	613.8	613.8
25°	526.0	573.1	583.1	586.7	590.2	592.0	593.7	596.1	597.9	597.2	597.9
27.5°	501.2	556.7	569.6	571.9	576.7	578.4	580.8	581.3	582.0	583.7	582.6
30°	473.6	533.7	553.1	555.4	563.1	564.3	561.9	563.1	566.1	567.2	568.4
32.5°	442.4	499.5	536.0	541.3	548.4	544.9	544.3	546.0	550.8	550.8	551.9
35°	400.0	473.0	520.1	524.9	530.1	526.0	528.4	528.9	531.9	533.7	533.0
37.5°	353.4	450.0	503.6	507.1	511.3	506.0	509.5	511.3	513.6	512.5	512.5
40°	312.1	414.1	484.2	486.6	490.1	486.0	489.5	490.7	491.8	490.7	490.1
42.5°	281.6	374.6	463.6	466.6	464.2	467.1	468.3	470.7	468.8	466.6	466.6
45°	258.0	364.1	441.2	444.7	441.2	445.9	447.7	447.7	442.4	441.2	440.6
47.5°	250.3	342.8	418.8	418.8	417.0	422.9	425.9	421.8	416.5	414.6	414.6
50°	249.8	319.3	388.2	385.8	394.1	401.1	398.2	394.1	390.0	383.5	383.5
52.5°	226.8	290.4	348.7	357.6	370.5	374.6	369.9	365.8	358.7	355.8	353.4
55°	210.3	260.3	312.8	330.4	344.0	349.3	340.4	336.3	325.8	324.0	322.8
57.5°	206.8	216.8	279.8	302.1	318.6	318.1	312.8	305.1	296.3	294.5	294.0
60°	189.7	156.7	244.4	271.0	288.0	286.2	281.6	274.5	266.2	265.1	263.9
62.5°	172.0	113.7	204.4	234.4	258.6	258.0	253.9	243.3	237.4	234.4	232.0
65°	146.1	95.4	145.5	195.0	229.8	230.9	222.0	214.4	207.9	204.4	203.8
67.5°	111.4	77.7	98.4	162.6	202.0	200.9	189.7	186.1	177.9	176.1	172.6
70°	82.5	51.8	68.3	131.9	175.0	172.0	163.2	159.1	151.4	147.3	144.9
72.5°	68.3	41.8	50.1	102.5	147.3	143.7	136.0	131.4	124.9	121.4	119.0
75°	55.3	44.2	38.3	76.0	119.5	117.3	110.1	105.4	100.1	95.4	96.0
77.5°	40.7	41.2	30.7	55.9	94.9	91.3	87.2	81.3	79.0	74.2	74.2
80°	30.7	32.4	23.0	38.3	68.3	68.3	64.8	60.7	56.6	54.2	54.2
82.5°	20.6	20.6	17.0	24.2	46.5	44.8	42.4	41.2	38.9	37.7	37.7
85°	9.4	11.8	10.6	14.8	25.3	26.5	26.5	25.3	24.8	23.5	24.2
87.5°	3.0	5.3	6.5	8.3	13.0	13.5	14.1	14.1	14.1	14.8	14.8
90°	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1	6.9	6.9
92.5°	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7	34.4	33.0
95°	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3	116.7	112.6
97.5°	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6	269.6	261.6
100°	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9	378.5	369.1
102.5°	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1	471.6	463.5
105°	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2	580.2	575.9
107.5°	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6	636.7	637.7
110°	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2	651.2	655.7



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6	642.0	648.9
115°	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1	610.6	620.2
117.5°	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7	567.3	577.9
120°	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5	538.2	548.6
122.5°	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7	509.1	519.3
125°	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5	470.5	479.9
127.5°	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5	439.5	447.4
130°	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1	420.0	427.3
132.5°	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5	403.3	409.9
135°	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1	379.8	385.4
137.5°	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4	362.4	367.0
140°	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7	348.5	352.8
142.5°	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1	338.7	342.4
145°	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8	324.0	326.8
147.5°	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6	311.7	314.1
150°	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9	304.7	306.6
152.5°	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2	299.1	300.5
155°	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7	292.4	293.4
157.5°	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8	286.6	287.3
160°	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9	283.7	284.0
162.5°	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1	281.0	281.3
165°	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2	276.8	277.1
167.5°	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7	275.0	275.2
170°	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7	275.0	275.0
172.5°	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7	273.5	273.3
175°	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4	271.6	271.6
177.5°	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3	271.2	271.0
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	638.5	636.8	638.5	637.3	637.9	636.2	630.9	629.1	630.9	632.6	632.6
5°	646.2	645.0	646.2	646.2	645.6	644.4	638.5	637.3	638.5	639.1	637.9
7.5°	648.5	646.8	648.5	647.3	647.3	646.2	640.3	639.1	639.7	641.4	639.7
10°	648.5	646.8	648.5	647.9	647.3	646.2	640.3	637.9	637.9	639.7	637.9
12.5°	645.6	644.4	645.6	644.4	644.4	643.3	637.3	635.0	635.5	636.2	633.8
15°	640.9	639.1	640.9	639.7	640.3	638.5	632.0	629.7	629.7	630.9	626.8
17.5°	633.8	631.4	633.8	633.3	632.6	631.4	625.5	623.2	622.6	623.2	620.3
20°	625.5	623.8	625.5	625.0	625.0	622.6	616.7	613.8	613.8	613.8	610.9
22.5°	612.6	610.9	612.6	613.8	613.8	613.1	607.9	603.7	602.6	602.6	599.1
25°	597.9	596.1	597.9	597.9	597.2	597.9	596.1	593.7	592.0	590.2	586.7
27.5°	583.7	582.6	583.7	582.6	583.7	582.0	581.3	580.8	578.4	576.7	571.9
30°	569.6	568.4	569.6	568.4	567.2	566.1	563.1	561.9	564.3	563.1	555.4
32.5°	551.9	550.8	551.9	551.9	550.8	550.8	546.0	544.3	544.9	548.4	541.3
35°	533.7	531.9	533.7	533.0	533.7	531.9	528.9	528.4	526.0	530.1	524.9
37.5°	512.5	510.7	512.5	512.5	512.5	513.6	511.3	509.5	506.0	511.3	507.1
40°	490.7	488.3	490.7	490.1	490.7	491.8	490.7	489.5	486.0	490.1	486.6
42.5°	465.9	465.3	465.9	466.6	466.6	468.8	470.7	468.3	467.1	464.2	466.6
45°	439.4	438.3	439.4	440.6	441.2	442.4	447.7	447.7	445.9	441.2	444.7
47.5°	411.1	408.2	411.1	414.6	414.6	416.5	421.8	425.9	422.9	417.0	418.8
50°	381.1	381.7	381.1	383.5	383.5	390.0	394.1	398.2	401.1	394.1	385.8
52.5°	351.7	351.1	351.7	353.4	355.8	358.7	365.8	369.9	374.6	370.5	357.6
55°	322.2	323.4	322.2	322.8	324.0	325.8	336.3	340.4	349.3	344.0	330.4
57.5°	292.7	291.0	292.7	294.0	294.5	296.3	305.1	312.8	318.1	318.6	302.1
60°	258.6	256.2	258.6	263.9	265.1	266.2	274.5	281.6	286.2	288.0	271.0
62.5°	228.5	224.4	228.5	232.0	234.4	237.4	243.3	253.9	258.0	258.6	234.4
65°	196.7	195.0	196.7	203.8	204.4	207.9	214.4	222.0	230.9	229.8	195.0
67.5°	167.8	167.8	167.8	172.6	176.1	177.9	186.1	189.7	200.9	202.0	162.6
70°	141.4	140.8	141.4	144.9	147.3	151.4	159.1	163.2	172.0	175.0	131.9
72.5°	116.0	115.4	116.0	119.0	121.4	124.9	131.4	136.0	143.7	147.3	102.5
75°	93.6	92.5	93.6	96.0	95.4	100.1	105.4	110.1	117.3	119.5	76.0
77.5°	71.8	71.8	71.8	74.2	74.2	79.0	81.3	87.2	91.3	94.9	55.9
80°	53.6	53.0	53.6	54.2	54.2	56.6	60.7	64.8	68.3	68.3	38.3
82.5°	37.7	36.5	37.7	37.7	37.7	38.9	41.2	42.4	44.8	46.5	24.2
85°	23.5	23.5	23.5	24.2	23.5	24.8	25.3	26.5	26.5	25.3	14.8
87.5°	15.3	14.8	15.3	14.8	14.8	14.1	14.1	14.1	13.5	13.0	8.3
90°	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9	8.0	5.1
92.5°	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0	49.1	35.0
95°	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2	120.9	68.1
97.5°	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2	162.7	74.7
100°	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3	178.0	80.4
102.5°	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2	185.1	86.0
105°	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2	190.2	94.3
107.5°	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1	191.2	106.6
110°	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5	189.8	113.5





TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5	189.8	121.8
115°	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9	191.6	134.3
117.5°	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1	195.2	146.4
120°	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4	198.1	153.5
122.5°	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0	202.2	161.9
125°	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9	207.8	172.5
127.5°	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3	213.4	182.9
130°	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6	217.6	189.7
132.5°	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9	220.9	195.3
135°	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6	224.5	201.8
137.5°	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2	229.9	210.2
140°	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5	233.2	215.8
142.5°	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3	236.0	219.9
145°	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4	239.6	226.3
147.5°	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2	245.0	234.2
150°	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1	247.7	238.4
152.5°	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7	249.5	241.1
155°	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0	253.5	247.1
157.5°	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3	257.4	253.0
160°	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9	259.3	255.8
162.5°	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6	261.2	258.7
165°	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5	264.0	262.9
167.5°	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4	266.1	265.2
170°	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1	268.0	267.9
172.5°	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4	269.2	269.7
177.5°	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8	269.3	269.7
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	631.4	627.9	627.9	622.0	619.6	617.9	615.0	606.1	603.7	601.4	605.0
5°	636.8	630.3	625.5	615.0	606.1	602.6	591.4	570.2	556.1	545.4	539.5
7.5°	637.9	629.7	620.9	604.4	583.1	573.7	539.5	500.7	490.1	480.7	474.7
10°	636.8	627.3	615.0	590.2	540.2	523.6	489.5	464.2	457.7	455.9	457.7
12.5°	632.6	623.8	606.7	565.5	495.4	484.2	464.2	449.4	448.3	451.2	467.1
15°	625.5	617.3	597.2	532.5	470.7	462.4	448.3	442.9	449.4	470.1	517.8
17.5°	618.5	609.1	584.3	500.1	451.8	445.9	435.9	446.5	483.0	510.7	526.6
20°	609.1	597.9	569.6	476.6	438.3	432.9	428.3	476.0	503.6	513.6	522.5
22.5°	597.9	586.1	549.6	460.1	424.1	420.0	422.9	492.5	503.6	510.7	518.4
25°	583.1	573.1	526.0	447.1	412.9	408.2	419.4	490.7	497.1	498.9	514.2
27.5°	569.6	556.7	501.2	435.3	399.4	397.6	422.4	483.0	487.7	489.5	506.0
30°	553.1	533.7	473.6	422.9	385.2	384.6	422.9	473.6	472.4	477.1	493.6
32.5°	536.0	499.5	442.4	407.6	371.7	371.1	418.8	459.4	458.3	464.7	477.1
35°	520.1	473.0	400.0	390.0	354.6	355.2	408.8	442.9	443.5	449.4	457.1
37.5°	503.6	450.0	353.4	370.5	338.1	338.1	395.2	427.6	426.5	428.3	438.8
40°	484.2	414.1	312.1	345.2	322.8	321.0	378.7	411.1	407.0	406.5	421.1
42.5°	463.6	374.6	281.6	311.6	305.1	302.8	358.7	391.1	383.5	385.2	404.1
45°	441.2	364.1	258.0	263.3	286.9	285.1	336.9	368.2	362.8	367.6	387.0
47.5°	418.8	342.8	250.3	218.5	267.4	266.8	312.8	345.8	342.8	347.5	368.2
50°	388.2	319.3	249.8	187.3	245.7	247.9	284.0	324.0	324.0	328.1	349.9
52.5°	348.7	290.4	226.8	169.6	220.3	227.4	258.6	305.1	306.3	310.4	329.9
55°	312.8	260.3	210.3	156.1	190.2	205.6	233.8	285.7	288.0	292.1	309.9
57.5°	279.8	216.8	206.8	140.2	162.6	177.3	212.0	266.8	268.0	271.6	288.6
60°	244.4	156.7	189.7	123.1	138.4	149.6	192.0	244.4	248.6	250.9	265.7
62.5°	204.4	113.7	172.0	111.4	126.7	129.0	175.6	223.3	228.5	230.3	239.2
65°	145.5	95.4	146.1	101.4	114.3	114.9	157.8	201.5	206.1	209.1	215.6
67.5°	98.4	77.7	111.4	91.9	104.9	105.4	140.8	176.1	182.6	185.0	189.1
70°	68.3	51.8	82.5	81.9	94.2	95.4	122.5	153.2	159.1	160.8	163.2
72.5°	50.1	41.8	68.3	73.6	83.1	84.2	103.6	127.3	133.2	134.9	136.0
75°	38.3	44.2	55.3	64.2	70.7	71.2	84.8	103.6	107.8	109.0	109.5
77.5°	30.7	41.2	40.7	51.8	57.7	56.6	66.6	80.1	83.6	83.6	83.6
80°	23.0	32.4	30.7	37.2	42.4	41.2	47.7	57.2	58.3	59.5	58.9
82.5°	17.0	20.6	20.6	23.5	28.3	27.1	31.8	37.2	37.2	37.2	38.3
85°	10.6	11.8	9.4	12.4	15.9	15.3	17.7	20.0	20.6	20.6	19.4
87.5°	6.5	5.3	3.0	4.7	7.0	7.0	8.3	8.9	8.3	8.3	8.3
90°	4.7	3.2	1.8	3.2	4.7	5.1	8.0	11.9	13.8	12.2	9.1
92.5°	31.9	19.5	7.2	19.5	31.9	35.0	49.1	68.0	77.5	67.9	48.7
95°	62.4	39.9	17.4	39.9	62.4	68.1	120.9	191.2	226.4	202.0	153.3
97.5°	69.7	49.9	30.0	49.9	69.7	74.7	162.7	280.2	338.8	323.5	292.6
100°	75.9	57.8	39.8	57.8	75.9	80.4	178.0	308.3	373.5	374.6	376.9
102.5°	81.8	65.0	48.1	65.0	81.8	86.0	185.1	317.2	383.2	402.9	442.1
105°	90.7	76.5	62.3	76.5	90.7	94.3	190.2	318.2	382.1	426.2	514.2
107.5°	103.3	90.0	76.8	90.0	103.3	106.6	191.2	304.1	360.5	421.8	544.6
110°	110.5	98.5	86.5	98.5	110.5	113.5	189.8	291.5	342.4	411.0	548.2



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	118.9	107.5	96.1	107.5	118.9	121.8	189.8	280.5	325.8	396.1	536.6
115°	131.7	121.1	110.6	121.1	131.7	134.3	191.6	267.9	306.1	373.7	509.1
117.5°	144.0	134.5	124.9	134.5	144.0	146.4	195.2	260.1	292.6	353.6	475.7
120°	151.2	142.3	133.2	142.3	151.2	153.5	198.1	257.4	287.1	342.9	454.5
122.5°	159.6	150.5	141.4	150.5	159.6	161.9	202.2	256.0	282.9	333.1	433.7
125°	170.4	162.1	153.9	162.1	170.4	172.5	207.8	254.9	278.4	321.1	406.5
127.5°	180.8	172.4	164.0	172.4	180.8	182.9	213.4	254.3	274.6	311.3	384.5
130°	187.4	178.5	169.4	178.5	187.4	189.7	217.6	254.6	273.2	305.8	371.1
132.5°	193.1	184.1	175.0	184.1	193.1	195.3	220.9	254.9	271.9	301.1	359.5
135°	199.8	191.6	183.4	191.6	199.8	201.8	224.5	254.6	269.7	294.1	343.1
137.5°	208.2	200.0	191.9	200.0	208.2	210.2	229.9	256.2	269.4	290.0	331.4
140°	214.0	206.4	198.9	206.4	214.0	215.8	233.2	256.5	268.1	286.0	321.7
142.5°	218.2	211.3	204.4	211.3	218.2	219.9	236.0	257.3	268.1	283.8	315.1
145°	224.8	218.7	212.7	218.7	224.8	226.3	239.6	257.4	266.3	279.1	304.8
147.5°	232.7	227.0	221.1	227.0	232.7	234.2	245.0	259.2	266.3	276.4	296.6
150°	237.1	231.7	226.4	231.7	237.1	238.4	247.7	260.1	266.3	274.8	291.9
152.5°	240.1	236.1	232.0	236.1	240.1	241.1	249.5	260.7	266.3	273.6	288.2
155°	246.4	243.4	240.4	243.4	246.4	247.1	253.5	262.0	266.3	272.1	283.7
157.5°	252.3	249.4	246.5	249.4	252.3	253.0	257.4	263.3	266.3	270.8	279.8
160°	255.2	253.0	250.8	253.0	255.2	255.8	259.3	263.9	266.3	270.2	277.9
162.5°	258.2	256.6	254.9	256.6	258.2	258.7	261.2	264.6	266.3	269.6	276.1
165°	262.5	260.9	259.5	260.9	262.5	262.9	264.0	265.5	266.3	268.6	273.2
167.5°	265.0	264.3	263.6	264.3	265.0	265.2	266.1	267.4	268.1	269.6	272.7
170°	267.7	267.0	266.3	267.0	267.7	267.9	268.0	268.1	268.1	269.6	272.7
172.5°	268.1	267.9	267.7	267.9	268.1	268.1	268.1	268.1	268.1	269.3	271.7
175°	269.7	269.7	269.7	269.7	269.7	269.7	269.2	268.4	268.1	268.8	270.4
177.5°	269.7	269.7	269.7	269.7	269.7	269.7	269.3	268.8	268.5	269.1	270.3
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	600.8	599.1	601.4	595.0	601.4	599.1	600.8	605.0	601.4	603.7	606.1
5°	527.2	524.3	514.9	507.1	514.9	524.3	527.2	539.5	545.4	556.1	570.2
7.5°	471.2	468.8	466.6	461.8	466.6	468.8	471.2	474.7	480.7	490.1	500.7
10°	458.8	459.4	463.0	462.4	463.0	459.4	458.8	457.7	455.9	457.7	464.2
12.5°	490.7	496.0	515.4	514.2	515.4	496.0	490.7	467.1	451.2	448.3	449.4
15°	527.2	528.9	533.0	533.7	533.0	528.9	527.2	517.8	470.1	449.4	442.9
17.5°	530.8	531.3	534.3	534.3	534.3	531.3	530.8	526.6	510.7	483.0	446.5
20°	527.8	528.9	534.9	536.0	534.9	528.9	527.8	522.5	513.6	503.6	476.0
22.5°	526.6	528.9	533.7	533.0	533.7	528.9	526.6	518.4	510.7	503.6	492.5
25°	520.7	520.7	521.3	521.9	521.3	520.7	520.7	514.2	498.9	497.1	490.7
27.5°	508.4	509.5	513.0	512.5	513.0	509.5	508.4	506.0	489.5	487.7	483.0
30°	497.1	496.0	493.0	490.7	493.0	496.0	497.1	493.6	477.1	472.4	473.6
32.5°	478.3	475.3	472.4	470.7	472.4	475.3	478.3	477.1	464.7	458.3	459.4
35°	455.9	456.5	455.9	454.2	455.9	456.5	455.9	457.1	449.4	443.5	442.9
37.5°	440.0	441.2	440.6	438.3	440.6	441.2	440.0	438.8	428.3	426.5	427.6
40°	423.5	424.1	423.5	421.8	423.5	424.1	423.5	421.1	406.5	407.0	411.1
42.5°	407.6	407.0	405.2	404.1	405.2	407.0	407.6	404.1	385.2	383.5	391.1
45°	389.4	390.0	386.4	384.6	386.4	390.0	389.4	387.0	367.6	362.8	368.2
47.5°	371.1	371.1	368.2	366.3	368.2	371.1	371.1	368.2	347.5	342.8	345.8
50°	351.7	351.1	346.9	346.3	346.9	351.1	351.7	349.9	328.1	324.0	324.0
52.5°	329.3	329.3	329.9	331.0	329.9	329.3	329.3	329.9	310.4	306.3	305.1
55°	309.9	310.4	314.5	315.7	314.5	310.4	309.9	309.9	292.1	288.0	285.7
57.5°	289.8	289.8	292.7	292.7	292.7	289.8	289.8	288.6	271.6	268.0	266.8
60°	266.8	268.0	270.3	269.8	270.3	268.0	266.8	265.7	250.9	248.6	244.4
62.5°	242.7	243.9	244.4	243.3	244.4	243.9	242.7	239.2	230.3	228.5	223.3
65°	217.4	218.5	219.1	217.9	219.1	218.5	217.4	215.6	209.1	206.1	201.5
67.5°	191.5	190.9	190.2	192.6	190.2	190.9	191.5	189.1	185.0	182.6	176.1
70°	164.9	164.9	164.3	165.6	164.3	164.9	164.9	163.2	160.8	159.1	153.2
72.5°	136.7	136.0	138.4	136.7	138.4	136.0	136.7	136.0	134.9	133.2	127.3
75°	109.0	110.1	109.0	110.8	109.0	110.1	109.0	109.5	109.0	107.8	103.6
77.5°	83.1	84.2	83.1	83.1	83.1	84.2	83.1	83.6	83.6	83.6	80.1
80°	58.9	58.3	58.3	57.7	58.3	58.3	58.9	58.9	59.5	58.3	57.2
82.5°	37.7	37.2	37.2	38.3	37.2	37.2	37.7	38.3	37.2	37.2	37.2
85°	20.6	21.2	20.0	20.0	20.0	21.2	20.6	19.4	20.6	20.6	20.0
87.5°	7.6	7.0	7.0	7.0	7.0	7.0	7.6	8.3	8.3	8.3	8.9
90°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	9.1	12.2	13.8	11.9
92.5°	34.4	33.0	27.6	22.0	27.6	33.0	34.4	48.7	67.9	77.5	68.0
95°	116.7	112.6	96.0	79.5	96.0	112.6	116.7	153.3	202.0	226.4	191.2
97.5°	269.6	261.6	230.1	198.6	230.1	261.6	269.6	292.6	323.5	338.8	280.2
100°	378.5	369.1	331.6	294.0	331.6	369.1	378.5	376.9	374.6	373.5	308.3
102.5°	471.6	463.5	431.3	399.2	431.3	463.5	471.6	442.1	402.9	383.2	317.2
105°	580.2	575.9	558.6	541.3	558.6	575.9	580.2	514.2	426.2	382.1	318.2
107.5°	636.7	637.7	641.9	646.1	641.9	637.7	636.7	544.6	421.8	360.5	304.1
110°	651.2	655.7	673.7	691.7	673.7	655.7	651.2	548.2	411.0	342.4	291.5



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	642.0	648.9	676.6	704.2	676.6	648.9	642.0	536.6	396.1	325.8	280.5
115°	610.6	620.2	658.6	696.9	658.6	620.2	610.6	509.1	373.7	306.1	267.9
117.5°	567.3	577.9	620.5	663.1	620.5	577.9	567.3	475.7	353.6	292.6	260.1
120°	538.2	548.6	589.9	631.2	589.9	548.6	538.2	454.5	342.9	287.1	257.4
122.5°	509.1	519.3	560.1	600.8	560.1	519.3	509.1	433.7	333.1	282.9	256.0
125°	470.5	479.9	517.4	555.0	517.4	479.9	470.5	406.5	321.1	278.4	254.9
127.5°	439.5	447.4	479.1	510.8	479.1	447.4	439.5	384.5	311.3	274.6	254.3
130°	420.0	427.3	456.6	485.9	456.6	427.3	420.0	371.1	305.8	273.2	254.6
132.5°	403.3	409.9	436.1	462.3	436.1	409.9	403.3	359.5	301.1	271.9	254.9
135°	379.8	385.4	408.1	430.6	408.1	385.4	379.8	343.1	294.1	269.7	254.6
137.5°	362.4	367.0	385.5	404.0	385.5	367.0	362.4	331.4	290.0	269.4	256.2
140°	348.5	352.8	370.1	387.4	370.1	352.8	348.5	321.7	286.0	268.1	256.5
142.5°	338.7	342.4	357.3	372.2	357.3	342.4	338.7	315.1	283.8	268.1	257.3
145°	324.0	326.8	338.1	349.4	338.1	326.8	324.0	304.8	279.1	266.3	257.4
147.5°	311.7	314.1	323.4	332.7	323.4	314.1	311.7	296.6	276.4	266.3	259.2
150°	304.7	306.6	314.2	321.7	314.2	306.6	304.7	291.9	274.8	266.3	260.1
152.5°	299.1	300.5	306.2	311.9	306.2	300.5	299.1	288.2	273.6	266.3	260.7
155°	292.4	293.4	297.1	300.9	297.1	293.4	292.4	283.7	272.1	266.3	262.0
157.5°	286.6	287.3	289.9	292.6	289.9	287.3	286.6	279.8	270.8	266.3	263.3
160°	283.7	284.0	285.6	287.1	285.6	284.0	283.7	277.9	270.2	266.3	263.9
162.5°	281.0	281.3	282.8	284.2	282.8	281.3	281.0	276.1	269.6	266.3	264.6
165°	276.8	277.1	278.7	280.3	278.7	277.1	276.8	273.2	268.6	266.3	265.5
167.5°	275.0	275.2	275.8	276.4	275.8	275.2	275.0	272.7	269.6	268.1	267.4
170°	275.0	275.0	275.0	275.0	275.0	275.0	275.0	272.7	269.6	268.1	268.1
172.5°	273.5	273.3	272.8	272.3	272.8	273.3	273.5	271.7	269.3	268.1	268.1
175°	271.6	271.6	271.6	271.6	271.6	271.6	271.6	270.4	268.8	268.1	268.4
177.5°	271.2	271.0	270.4	269.7	270.4	271.0	271.2	270.3	269.1	268.5	268.8
180°	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	622.6	622.6	622.6	622.6	622.6
2.5°	615.0	617.9	619.6	622.0	627.9
5°	591.4	602.6	606.1	615.0	625.5
7.5°	539.5	573.7	583.1	604.4	620.9
10°	489.5	523.6	540.2	590.2	615.0
12.5°	464.2	484.2	495.4	565.5	606.7
15°	448.3	462.4	470.7	532.5	597.2
17.5°	435.9	445.9	451.8	500.1	584.3
20°	428.3	432.9	438.3	476.6	569.6
22.5°	422.9	420.0	424.1	460.1	549.6
25°	419.4	408.2	412.9	447.1	526.0
27.5°	422.4	397.6	399.4	435.3	501.2
30°	422.9	384.6	385.2	422.9	473.6
32.5°	418.8	371.1	371.7	407.6	442.4
35°	408.8	355.2	354.6	390.0	400.0
37.5°	395.2	338.1	338.1	370.5	353.4
40°	378.7	321.0	322.8	345.2	312.1
42.5°	358.7	302.8	305.1	311.6	281.6
45°	336.9	285.1	286.9	263.3	258.0
47.5°	312.8	266.8	267.4	218.5	250.3
50°	284.0	247.9	245.7	187.3	249.8
52.5°	258.6	227.4	220.3	169.6	226.8
55°	233.8	205.6	190.2	156.1	210.3
57.5°	212.0	177.3	162.6	140.2	206.8
60°	192.0	149.6	138.4	123.1	189.7
62.5°	175.6	129.0	126.7	111.4	172.0
65°	157.8	114.9	114.3	101.4	146.1
67.5°	140.8	105.4	104.9	91.9	111.4
70°	122.5	95.4	94.2	81.9	82.5
72.5°	103.6	84.2	83.1	73.6	68.3
75°	84.8	71.2	70.7	64.2	55.3
77.5°	66.6	56.6	57.7	51.8	40.7
80°	47.7	41.2	42.4	37.2	30.7
82.5°	31.8	27.1	28.3	23.5	20.6
85°	17.7	15.3	15.9	12.4	9.4
87.5°	8.3	7.0	7.0	4.7	3.0
90°	8.0	5.1	4.7	3.2	1.8
92.5°	49.1	35.0	31.9	19.5	7.2
95°	120.9	68.1	62.4	39.9	17.4
97.5°	162.7	74.7	69.7	49.9	30.0
100°	178.0	80.4	75.9	57.8	39.8
102.5°	185.1	86.0	81.8	65.0	48.1
105°	190.2	94.3	90.7	76.5	62.3
107.5°	191.2	106.6	103.3	90.0	76.8
110°	189.8	113.5	110.5	98.5	86.5



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	189.8	121.8	118.9	107.5	96.1
115°	191.6	134.3	131.7	121.1	110.6
117.5°	195.2	146.4	144.0	134.5	124.9
120°	198.1	153.5	151.2	142.3	133.2
122.5°	202.2	161.9	159.6	150.5	141.4
125°	207.8	172.5	170.4	162.1	153.9
127.5°	213.4	182.9	180.8	172.4	164.0
130°	217.6	189.7	187.4	178.5	169.4
132.5°	220.9	195.3	193.1	184.1	175.0
135°	224.5	201.8	199.8	191.6	183.4
137.5°	229.9	210.2	208.2	200.0	191.9
140°	233.2	215.8	214.0	206.4	198.9
142.5°	236.0	219.9	218.2	211.3	204.4
145°	239.6	226.3	224.8	218.7	212.7
147.5°	245.0	234.2	232.7	227.0	221.1
150°	247.7	238.4	237.1	231.7	226.4
152.5°	249.5	241.1	240.1	236.1	232.0
155°	253.5	247.1	246.4	243.4	240.4
157.5°	257.4	253.0	252.3	249.4	246.5
160°	259.3	255.8	255.2	253.0	250.8
162.5°	261.2	258.7	258.2	256.6	254.9
165°	264.0	262.9	262.5	260.9	259.5
167.5°	266.1	265.2	265.0	264.3	263.6
170°	268.0	267.9	267.7	267.0	266.3
172.5°	268.1	268.1	268.1	267.9	267.7
175°	269.2	269.7	269.7	269.7	269.7
177.5°	269.3	269.7	269.7	269.7	269.7
180°	269.7	269.7	269.7	269.7	269.7



TEST NUMBER: P934257

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-3000K

**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	10.70	11.55	11.68	12.53	13.83	13.50	14.34	14.47	15.33	16.63
	3H	11.18	11.93	12.16	12.93	14.25	14.83	15.59	15.82	16.59	17.91
	4H	11.37	12.08	12.37	13.08	14.41	15.27	15.99	16.27	16.99	18.31
	6H	11.49	12.15	12.50	13.15	14.49	15.55	16.20	16.55	17.21	18.55
	8H	11.49	12.11	12.50	13.14	14.47	15.62	16.24	16.63	17.26	18.60
	12H	11.46	12.05	12.48	13.07	14.43	15.65	16.25	16.67	17.26	18.62
4H	2H	11.72	12.44	12.73	13.44	14.77	13.91	14.62	14.91	15.62	16.95
	3H	12.75	13.35	13.76	14.37	15.72	15.40	16.00	16.42	17.03	18.37
	4H	13.02	13.57	14.05	14.59	15.96	15.92	16.47	16.94	17.49	18.86
	6H	13.15	13.62	14.18	14.66	16.03	16.28	16.75	17.31	17.79	19.15
	8H	13.15	13.59	14.19	14.63	16.01	16.38	16.82	17.41	17.86	19.23
	12H	13.12	13.52	14.17	14.57	15.95	16.43	16.83	17.48	17.88	19.26
8H	4H	13.47	13.91	14.50	14.95	16.32	16.05	16.48	17.08	17.52	18.90
	6H	13.73	14.09	14.79	15.17	16.55	16.47	16.84	17.53	17.92	19.29
	8H	13.77	14.09	14.84	15.16	16.55	16.62	16.94	17.69	18.00	19.40
	12H	13.76	14.04	14.83	15.10	16.53	16.71	16.99	17.78	18.05	19.49
12H	4H	13.48	13.87	14.53	14.92	16.31	16.01	16.41	17.06	17.46	18.84
	6H	13.79	14.11	14.86	15.17	16.57	16.47	16.79	17.54	17.85	19.25
	8H	13.86	14.14	14.93	15.20	16.63	16.63	16.91	17.70	17.97	19.40