

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: P935074

Luminaire Tested: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

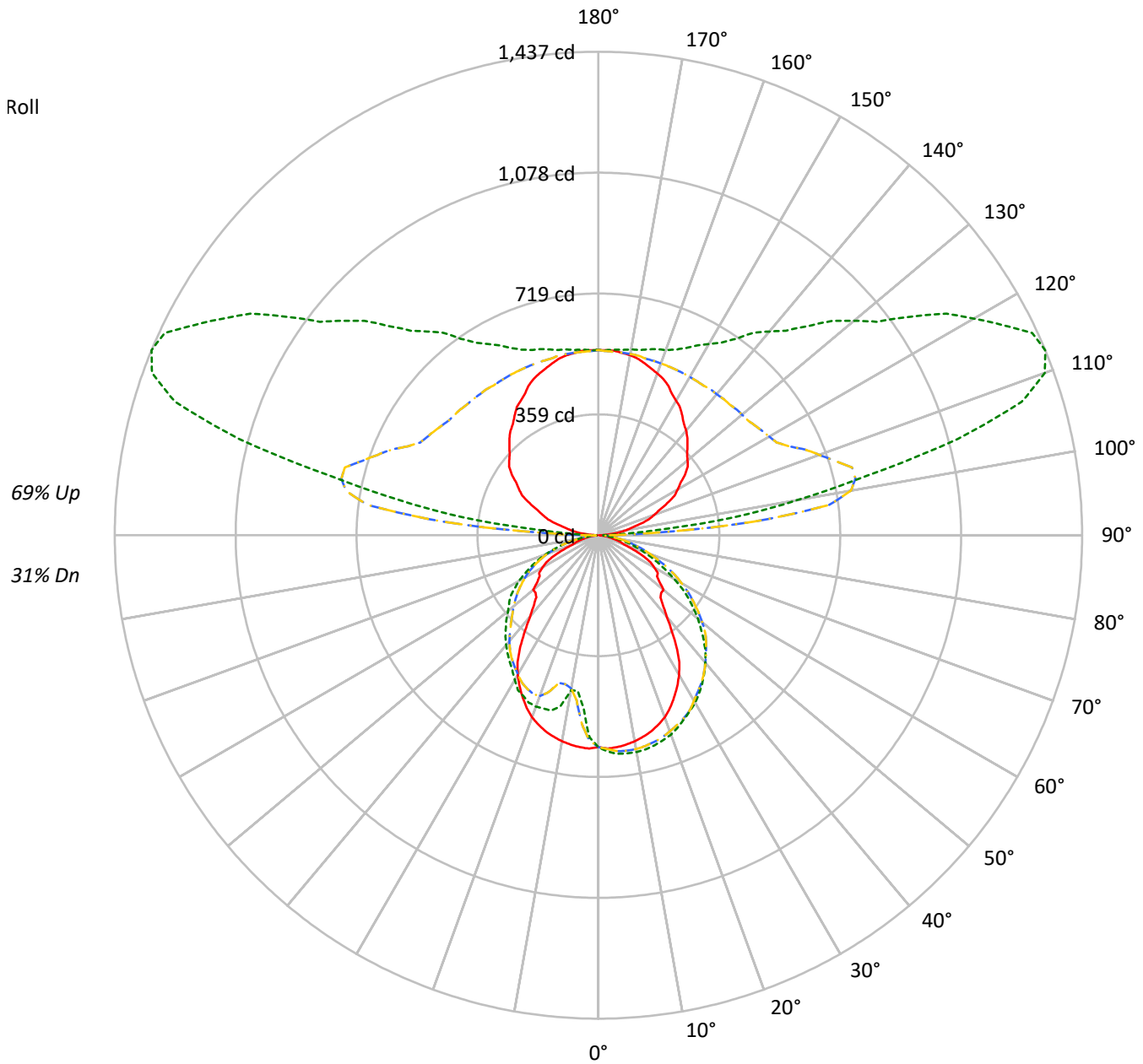
Test Method: LM-79-2019  
Report Number: P935074  
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5201.9 lumens  
Efficiency: N/A  
Efficacy: 126.3 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-Indirect  
  
Input Watts (W): 41.2  
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

TEST NUMBER: P935074  
CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

### 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				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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

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

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5878	5896	5878	4636
10°	5833	5808	5833	4152
15°	5762	5683	5762	4744
20°	5636	5534	5636	4754
25°	5382	5316	5382	4654
30°	5057	5135	5057	4433
35°	4502	4907	4502	4190
40°	3744	4638	3744	4006
45°	3339	4324	3339	3795
50°	3540	3948	3540	3582
55°	3321	3545	3321	3460
60°	3412	3009	3412	3170
65°	3078	2488	3078	2781
70°	2117	1982	2117	2332
75°	1833	1466	1833	1756
80°	1451	969	1451	1054
85°	787	513	787	435

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5128 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	1.1
10°-20°	161.3	3.1
20°-30°	249.4	4.8
30°-40°	297.7	5.7
40°-50°	299.5	5.8
50°-60°	260.6	5.0
60°-70°	184.7	3.6
70°-80°	97.7	1.9
80°-90°	26.4	0.5
90°-100°	268.3	5.2
100°-110°	705.3	13.6
110°-120°	731.3	14.1
120°-130°	586.6	11.3
130°-140°	460.3	8.8
140°-150°	353.3	6.8
150°-160°	254.4	4.9
160°-170°	155.7	3.0
170°-180°	52.6	1.0
0°-30°	467.5	9.0
0°-40°	765.3	14.7
0°-60°	1325.3	25.5
0°-90°	1634.2	31.4
90°-120°	1704.8	32.8
90°-150°	3105.0	59.7
90°-180°	3568.0	68.6
0°-180°	5201.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	630	630	630	630	630	
5°	632	652	632	513	632	60
15°	604	646	604	540	604	170
25°	532	603	532	528	532	244
35°	404	538	404	459	404	250
45°	261	443	261	389	261	209
55°	213	327	213	319	213	195
65°	148	197	148	220	148	141
75°	56	94	56	112	56	59
85°	10	24	10	20	10	13
90°	4	14	4	14	4	3
95°	35	162	35	162	35	39
105°	127	1104	127	1104	127	135
115°	226	1422	226	1422	226	223
125°	314	1132	314	1132	314	279
135°	374	879	374	879	374	289
145°	434	713	434	713	434	272
155°	490	614	490	614	490	225
165°	529	572	529	572	529	149
175°	550	554	550	554	550	52
180°	550	550	550	550	550	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	634.8	634.8	638.4	639.6	639.6	637.9	636.1	637.9	643.2	645.0	644.3
5°	632.4	637.2	643.8	645.0	646.2	645.6	644.3	645.6	651.5	652.7	653.3
7.5°	627.7	636.6	645.0	646.7	648.5	646.7	646.2	647.4	653.3	654.5	654.5
10°	621.8	634.2	643.8	645.0	646.7	645.0	645.0	647.4	653.3	654.5	655.1
12.5°	613.4	630.7	639.6	640.8	643.2	642.6	642.0	644.3	650.4	651.5	651.5
15°	603.8	624.1	632.4	633.7	637.9	636.6	636.6	639.0	645.6	647.4	646.7
17.5°	590.8	615.8	625.3	627.1	630.1	629.5	630.1	632.4	638.4	639.6	640.2
20°	575.9	604.5	615.8	617.6	620.5	620.5	620.5	623.6	629.5	631.9	631.9
22.5°	555.6	592.6	604.5	605.7	609.3	609.3	610.4	614.6	619.9	620.5	620.5
25°	531.8	579.4	589.5	593.2	596.7	598.5	600.3	602.7	604.5	603.8	604.5
27.5°	506.8	562.8	575.9	578.3	583.1	584.8	587.2	587.8	588.4	590.2	589.0
30°	478.8	539.5	559.2	561.6	569.3	570.5	568.1	569.3	572.3	573.5	574.7
32.5°	447.3	505.0	541.9	547.3	554.5	550.9	550.3	552.1	556.9	556.9	558.0
35°	404.4	478.2	525.9	530.7	536.0	531.8	534.2	534.8	537.8	539.5	538.9
37.5°	357.3	455.0	509.2	512.7	516.9	511.6	515.1	516.9	519.3	518.1	518.1
40°	315.6	418.7	489.6	492.0	495.5	491.3	494.9	496.1	497.3	496.1	495.5
42.5°	284.7	378.7	468.7	471.7	469.3	472.2	473.5	475.9	474.0	471.7	471.7
45°	260.8	368.1	446.0	449.6	446.0	450.8	452.6	452.6	447.3	446.0	445.4
47.5°	253.1	346.6	423.4	423.4	421.6	427.6	430.6	426.4	421.1	419.2	419.2
50°	252.5	322.8	392.5	390.1	398.4	405.5	402.6	398.4	394.3	387.7	387.7
52.5°	229.3	293.6	352.5	361.5	374.6	378.7	374.0	369.9	362.7	359.7	357.3
55°	212.6	263.2	316.2	334.1	347.8	353.2	344.2	340.0	329.4	327.6	326.3
57.5°	209.0	219.2	282.9	305.5	322.2	321.6	316.2	308.5	299.5	297.7	297.2
60°	191.8	158.4	247.1	273.9	291.2	289.4	284.7	277.5	269.2	268.0	266.8
62.5°	173.9	114.9	206.6	237.0	261.4	260.8	256.7	246.0	240.0	237.0	234.6
65°	147.7	96.4	147.1	197.1	232.3	233.5	224.5	216.8	210.2	206.6	206.0
67.5°	112.6	78.6	99.5	164.4	204.2	203.1	191.8	188.2	179.8	178.0	174.5
70°	83.4	52.4	69.1	133.4	176.9	173.9	165.0	160.8	153.1	148.9	146.5
72.5°	69.1	42.3	50.6	103.6	148.9	145.3	137.6	132.8	126.3	122.7	120.3
75°	55.9	44.7	38.7	76.8	120.9	118.5	111.4	106.6	101.2	96.4	97.1
77.5°	41.1	41.6	31.0	56.6	95.9	92.4	88.2	82.2	79.8	75.0	75.0
80°	31.0	32.8	23.3	38.7	69.1	69.1	65.5	61.4	57.2	54.8	54.8
82.5°	20.9	20.9	17.2	24.4	47.1	45.3	42.9	41.6	39.3	38.1	38.1
85°	9.5	11.9	10.7	14.9	25.6	26.8	26.8	25.6	25.0	23.8	24.4
87.5°	3.0	5.3	6.6	8.3	13.1	13.7	14.3	14.3	14.3	14.9	14.9
90°	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7	14.0	14.0
92.5°	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5	70.2	67.4
95°	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8	238.3	229.8
97.5°	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1	549.9	533.9
100°	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8	772.3	753.1
102.5°	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1	962.1	945.7
105°	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1	1183.8	1175.0
107.5°	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2	1299.1	1301.2
110°	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5	1328.5	1337.8



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CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7	1309.7	1323.8
115°	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8	1245.9	1265.4
117.5°	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7	1157.6	1179.3
120°	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3	1098.1	1119.2
122.5°	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8	1038.6	1059.4
125°	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3	959.9	979.1
127.5°	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6	896.8	913.0
130°	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1	856.9	871.8
132.5°	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5	822.9	836.3
135°	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0	774.9	786.4
137.5°	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1	739.4	748.9
140°	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3	711.0	719.8
142.5°	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0	691.0	698.7
145°	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9	661.1	666.9
147.5°	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2	636.1	640.9
150°	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5	621.6	625.4
152.5°	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9	610.1	613.1
155°	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8	596.5	598.4
157.5°	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9	584.7	586.0
160°	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0	578.8	579.6
162.5°	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3	573.2	573.9
165°	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7	564.8	565.6
167.5°	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3	561.0	561.4
170°	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3	561.0	561.0
172.5°	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4	558.1	557.8
175°	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7	554.0	554.0
177.5°	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4	553.3	553.0
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	645.6	643.8	645.6	644.3	645.0	643.2	637.9	636.1	637.9	639.6	639.6
5°	653.3	652.1	653.3	653.3	652.7	651.5	645.6	644.3	645.6	646.2	645.0
7.5°	655.7	653.9	655.7	654.5	654.5	653.3	647.4	646.2	646.7	648.5	646.7
10°	655.7	653.9	655.7	655.1	654.5	653.3	647.4	645.0	645.0	646.7	645.0
12.5°	652.7	651.5	652.7	651.5	651.5	650.4	644.3	642.0	642.6	643.2	640.8
15°	648.0	646.2	648.0	646.7	647.4	645.6	639.0	636.6	636.6	637.9	633.7
17.5°	640.8	638.4	640.8	640.2	639.6	638.4	632.4	630.1	629.5	630.1	627.1
20°	632.4	630.7	632.4	631.9	631.9	629.5	623.6	620.5	620.5	620.5	617.6
22.5°	619.4	617.6	619.4	620.5	620.5	619.9	614.6	610.4	609.3	609.3	605.7
25°	604.5	602.7	604.5	604.5	603.8	604.5	602.7	600.3	598.5	596.7	593.2
27.5°	590.2	589.0	590.2	589.0	590.2	588.4	587.8	587.2	584.8	583.1	578.3
30°	575.9	574.7	575.9	574.7	573.5	572.3	569.3	568.1	570.5	569.3	561.6
32.5°	558.0	556.9	558.0	558.0	556.9	556.9	552.1	550.3	550.9	554.5	547.3
35°	539.5	537.8	539.5	538.9	539.5	537.8	534.8	534.2	531.8	536.0	530.7
37.5°	518.1	516.4	518.1	518.1	518.1	519.3	516.9	515.1	511.6	516.9	512.7
40°	496.1	493.7	496.1	495.5	496.1	497.3	496.1	494.9	491.3	495.5	492.0
42.5°	471.1	470.5	471.1	471.7	471.7	474.0	475.9	473.5	472.2	469.3	471.7
45°	444.3	443.1	444.3	445.4	446.0	447.3	452.6	452.6	450.8	446.0	449.6
47.5°	415.7	412.7	415.7	419.2	419.2	421.1	426.4	430.6	427.6	421.6	423.4
50°	385.3	385.9	385.3	387.7	387.7	394.3	398.4	402.6	405.5	398.4	390.1
52.5°	355.6	354.9	355.6	357.3	359.7	362.7	369.9	374.0	378.7	374.6	361.5
55°	325.7	327.0	325.7	326.3	327.6	329.4	340.0	344.2	353.2	347.8	334.1
57.5°	296.0	294.2	296.0	297.2	297.7	299.5	308.5	316.2	321.6	322.2	305.5
60°	261.4	259.0	261.4	266.8	268.0	269.2	277.5	284.7	289.4	291.2	273.9
62.5°	231.1	226.9	231.1	234.6	237.0	240.0	246.0	256.7	260.8	261.4	237.0
65°	198.9	197.1	198.9	206.0	206.6	210.2	216.8	224.5	233.5	232.3	197.1
67.5°	169.7	169.7	169.7	174.5	178.0	179.8	188.2	191.8	203.1	204.2	164.4
70°	143.0	142.3	143.0	146.5	148.9	153.1	160.8	165.0	173.9	176.9	133.4
72.5°	117.3	116.7	117.3	120.3	122.7	126.3	132.8	137.6	145.3	148.9	103.6
75°	94.7	93.5	94.7	97.1	96.4	101.2	106.6	111.4	118.5	120.9	76.8
77.5°	72.6	72.6	72.6	75.0	75.0	79.8	82.2	88.2	92.4	95.9	56.6
80°	54.2	53.6	54.2	54.8	54.8	57.2	61.4	65.5	69.1	69.1	38.7
82.5°	38.1	36.9	38.1	38.1	38.1	39.3	41.6	42.9	45.3	47.1	24.4
85°	23.8	23.8	23.8	24.4	23.8	25.0	25.6	26.8	26.8	25.6	14.9
87.5°	15.5	14.9	15.5	14.9	14.9	14.3	14.3	14.3	13.7	13.1	8.3
90°	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2	16.3	10.3
92.5°	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8	100.3	71.3
95°	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2	246.6	138.9
97.5°	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7	332.2	152.6
100°	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1	363.4	164.0
102.5°	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2	377.7	175.5
105°	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2	388.2	192.4
107.5°	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3	390.2	217.6
110°	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7	387.2	231.6





TEST NUMBER: P935074

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3	387.3	248.6
115°	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7	390.9	274.0
117.5°	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7	398.2	298.8
120°	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3	404.0	313.2
122.5°	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4	412.6	330.2
125°	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0	424.0	352.0
127.5°	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7	435.5	373.0
130°	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6	443.8	387.1
132.5°	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0	450.6	398.5
135°	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6	458.0	411.9
137.5°	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8	469.0	428.8
140°	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3	475.9	440.3
142.5°	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2	481.6	448.8
145°	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3	488.9	461.7
147.5°	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8	499.8	477.9
150°	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8	505.4	486.4
152.5°	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9	509.1	492.0
155°	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7	517.3	504.2
157.5°	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3	525.3	516.4
160°	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6	529.1	521.9
162.5°	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9	533.0	527.8
165°	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8	538.7	536.3
167.5°	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7	543.1	541.1
170°	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9	546.7	546.7
172.5°	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7	549.2	550.4
177.5°	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3	549.5	550.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935074

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	638.4	634.8	634.8	628.9	626.5	624.7	621.8	612.8	610.4	608.0	611.7
5°	643.8	637.2	632.4	621.8	612.8	609.3	597.9	576.5	562.2	551.4	545.5
7.5°	645.0	636.6	627.7	611.0	589.5	580.0	545.5	506.2	495.5	486.0	480.0
10°	643.8	634.2	621.8	596.7	546.1	529.4	494.9	469.3	462.7	461.0	462.7
12.5°	639.6	630.7	613.4	571.7	500.8	489.6	469.3	454.4	453.2	456.2	472.2
15°	632.4	624.1	603.8	538.4	475.9	467.5	453.2	447.8	454.4	475.3	523.5
17.5°	625.3	615.8	590.8	505.6	456.8	450.8	440.7	451.5	488.3	516.4	532.4
20°	615.8	604.5	575.9	481.8	443.1	437.7	433.0	481.2	509.2	519.3	528.3
22.5°	604.5	592.6	555.6	465.1	428.8	424.6	427.6	497.9	509.2	516.4	524.1
25°	589.5	579.4	531.8	452.0	417.4	412.7	424.0	496.1	502.6	504.4	519.9
27.5°	575.9	562.8	506.8	440.1	403.8	402.0	427.0	488.3	493.1	494.9	511.6
30°	559.2	539.5	478.8	427.6	389.5	388.9	427.6	478.8	477.7	482.4	499.1
32.5°	541.9	505.0	447.3	412.1	375.8	375.2	423.4	464.5	463.4	469.8	482.4
35°	525.9	478.2	404.4	394.3	358.5	359.1	413.3	447.8	448.4	454.4	462.1
37.5°	509.2	455.0	357.3	374.6	341.9	341.9	399.6	432.4	431.2	433.0	443.6
40°	489.6	418.7	315.6	349.0	326.3	324.6	382.9	415.7	411.5	411.0	425.8
42.5°	468.7	378.7	284.7	315.1	308.5	306.1	362.7	395.4	387.7	389.5	408.6
45°	446.0	368.1	260.8	266.2	290.0	288.2	340.6	372.2	366.8	371.6	391.3
47.5°	423.4	346.6	253.1	220.9	270.4	269.8	316.2	349.6	346.6	351.4	372.2
50°	392.5	322.8	252.5	189.4	248.4	250.7	287.1	327.6	327.6	331.8	353.8
52.5°	352.5	293.6	229.3	171.5	222.7	229.9	261.4	308.5	309.6	313.8	333.5
55°	316.2	263.2	212.6	157.8	192.3	207.9	236.4	288.9	291.2	295.3	313.3
57.5°	282.9	219.2	209.0	141.7	164.4	179.3	214.4	269.8	270.9	274.6	291.8
60°	247.1	158.4	191.8	124.5	139.9	151.2	194.1	247.1	251.3	253.7	268.6
62.5°	206.6	114.9	173.9	112.6	128.0	130.4	177.5	225.7	231.1	232.8	241.8
65°	147.1	96.4	147.7	102.5	115.5	116.2	159.6	203.7	208.4	211.4	218.0
67.5°	99.5	78.6	112.6	92.9	106.0	106.6	142.3	178.0	184.6	187.0	191.2
70°	69.1	52.4	83.4	82.8	95.3	96.4	123.9	154.9	160.8	162.6	165.0
72.5°	50.6	42.3	69.1	74.4	84.0	85.2	104.8	128.7	134.6	136.4	137.6
75°	38.7	44.7	55.9	64.9	71.5	72.0	85.8	104.8	109.0	110.2	110.7
77.5°	31.0	41.6	41.1	52.4	58.3	57.2	67.3	81.0	84.5	84.5	84.5
80°	23.3	32.8	31.0	37.6	42.9	41.6	48.2	57.8	59.0	60.1	59.6
82.5°	17.2	20.9	20.9	23.8	28.6	27.4	32.1	37.6	37.6	37.6	38.7
85°	10.7	11.9	9.5	12.5	16.1	15.5	17.8	20.2	20.9	20.9	19.6
87.5°	6.6	5.3	3.0	4.8	7.1	7.1	8.3	9.0	8.3	8.3	8.3
90°	9.6	6.7	3.7	6.7	9.6	10.3	16.3	24.2	28.1	25.0	18.7
92.5°	65.0	39.9	14.7	39.9	65.0	71.3	100.3	138.8	158.1	138.5	99.5
95°	127.4	81.4	35.4	81.4	127.4	138.9	246.6	390.2	462.0	412.3	312.8
97.5°	142.4	101.9	61.3	101.9	142.4	152.6	332.2	571.7	691.4	660.0	597.1
100°	154.8	118.0	81.3	118.0	154.8	164.0	363.4	629.1	762.0	764.3	768.8
102.5°	166.9	132.6	98.2	132.6	166.9	175.5	377.7	647.2	782.0	822.0	902.1
105°	185.1	156.1	127.1	156.1	185.1	192.4	388.2	649.2	779.8	869.5	1049.1
107.5°	210.8	183.7	156.6	183.7	210.8	217.6	390.2	620.3	735.4	860.6	1111.2
110°	225.5	201.0	176.5	201.0	225.5	231.6	387.2	594.7	698.4	838.4	1118.5



TEST NUMBER: P935074

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	242.7	219.4	196.2	219.4	242.7	248.6	387.3	572.3	664.8	808.2	1094.7
115°	268.6	247.1	225.6	247.1	268.6	274.0	390.9	546.7	624.6	762.7	1038.8
117.5°	293.9	274.4	254.9	274.4	293.9	298.8	398.2	530.7	596.9	721.5	970.7
120°	308.6	290.2	271.8	290.2	308.6	313.2	404.0	525.3	585.8	699.7	927.3
122.5°	325.6	307.1	288.5	307.1	325.6	330.2	412.6	522.4	577.3	679.8	884.8
125°	347.7	330.9	314.0	330.9	347.7	352.0	424.0	520.0	568.1	655.2	829.3
127.5°	368.8	351.6	334.6	351.6	368.8	373.0	435.5	518.7	560.3	635.1	784.6
130°	382.5	364.1	345.7	364.1	382.5	387.1	443.8	519.6	557.4	624.0	757.1
132.5°	393.9	375.5	357.2	375.5	393.9	398.5	450.6	520.0	554.7	614.3	733.5
135°	407.7	390.9	374.2	390.9	407.7	411.9	458.0	519.6	550.4	600.3	700.0
137.5°	424.6	408.1	391.5	408.1	424.6	428.8	469.0	522.8	549.6	591.8	676.1
140°	436.5	421.2	405.9	421.2	436.5	440.3	475.9	523.3	547.0	583.4	656.3
142.5°	445.2	431.1	417.0	431.1	445.2	448.8	481.6	525.2	547.0	579.0	643.0
145°	458.6	446.3	434.0	446.3	458.6	461.7	488.9	525.3	543.4	569.6	621.9
147.5°	474.9	463.0	451.0	463.0	474.9	477.9	499.8	528.8	543.4	564.0	605.2
150°	483.7	472.9	462.0	472.9	483.7	486.4	505.4	530.8	543.4	560.8	595.5
152.5°	489.9	481.7	473.5	481.7	489.9	492.0	509.1	531.9	543.4	558.2	587.9
155°	502.7	496.6	490.5	496.6	502.7	504.2	517.3	534.7	543.4	555.2	578.8
157.5°	514.9	509.0	503.1	509.0	514.9	516.4	525.3	537.3	543.4	552.5	570.9
160°	520.7	516.2	511.6	516.2	520.7	521.9	529.1	538.6	543.4	551.3	567.0
162.5°	526.9	523.5	520.0	523.5	526.9	527.8	533.0	539.9	543.4	550.0	563.3
165°	535.5	532.4	529.2	532.4	535.5	536.3	538.7	541.8	543.4	548.2	557.7
167.5°	540.8	539.3	537.8	539.3	540.8	541.1	543.1	545.7	547.0	550.1	556.3
170°	546.3	544.8	543.4	544.8	546.3	546.7	546.7	546.9	547.0	550.1	556.3
172.5°	546.9	546.7	546.3	546.7	546.9	547.0	547.0	547.0	547.0	549.5	554.4
175°	550.4	550.4	550.4	550.4	550.4	550.4	549.2	547.7	547.0	548.6	551.7
177.5°	550.4	550.4	550.4	550.4	550.4	550.4	549.5	548.3	547.7	549.0	551.4
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935074

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	607.5	605.7	608.0	601.5	608.0	605.7	607.5	611.7	608.0	610.4	612.8
5°	533.0	530.0	520.5	512.7	520.5	530.0	533.0	545.5	551.4	562.2	576.5
7.5°	476.4	474.0	471.7	466.9	471.7	474.0	476.4	480.0	486.0	495.5	506.2
10°	463.9	464.5	468.1	467.5	468.1	464.5	463.9	462.7	461.0	462.7	469.3
12.5°	496.1	501.5	521.1	519.9	521.1	501.5	496.1	472.2	456.2	453.2	454.4
15°	533.0	534.8	538.9	539.5	538.9	534.8	533.0	523.5	475.3	454.4	447.8
17.5°	536.6	537.2	540.2	540.2	540.2	537.2	536.6	532.4	516.4	488.3	451.5
20°	533.6	534.8	540.8	541.9	540.8	534.8	533.6	528.3	519.3	509.2	481.2
22.5°	532.4	534.8	539.5	538.9	539.5	534.8	532.4	524.1	516.4	509.2	497.9
25°	526.5	526.5	527.0	527.6	527.0	526.5	526.5	519.9	504.4	502.6	496.1
27.5°	514.0	515.1	518.7	518.1	518.7	515.1	514.0	511.6	494.9	493.1	488.3
30°	502.6	501.5	498.4	496.1	498.4	501.5	502.6	499.1	482.4	477.7	478.8
32.5°	483.6	480.6	477.7	475.9	477.7	480.6	483.6	482.4	469.8	463.4	464.5
35°	461.0	461.6	461.0	459.2	461.0	461.6	461.0	462.1	454.4	448.4	447.8
37.5°	444.9	446.0	445.4	443.1	445.4	446.0	444.9	443.6	433.0	431.2	432.4
40°	428.2	428.8	428.2	426.4	428.2	428.8	428.2	425.8	411.0	411.5	415.7
42.5°	412.1	411.5	409.7	408.6	409.7	411.5	412.1	408.6	389.5	387.7	395.4
45°	393.7	394.3	390.6	388.9	390.6	394.3	393.7	391.3	371.6	366.8	372.2
47.5°	375.2	375.2	372.2	370.4	372.2	375.2	375.2	372.2	351.4	346.6	349.6
50°	355.6	354.9	350.8	350.1	350.8	354.9	355.6	353.8	331.8	327.6	327.6
52.5°	332.9	332.9	333.5	334.7	333.5	332.9	332.9	333.5	313.8	309.6	308.5
55°	313.3	313.8	318.0	319.2	318.0	313.8	313.3	313.3	295.3	291.2	288.9
57.5°	293.0	293.0	296.0	296.0	296.0	293.0	293.0	291.8	274.6	270.9	269.8
60°	269.8	270.9	273.3	272.8	273.3	270.9	269.8	268.6	253.7	251.3	247.1
62.5°	245.4	246.6	247.1	246.0	247.1	246.6	245.4	241.8	232.8	231.1	225.7
65°	219.8	220.9	221.6	220.3	221.6	220.9	219.8	218.0	211.4	208.4	203.7
67.5°	193.6	193.0	192.3	194.7	192.3	193.0	193.6	191.2	187.0	184.6	178.0
70°	166.8	166.8	166.1	167.4	166.1	166.8	166.8	165.0	162.6	160.8	154.9
72.5°	138.2	137.6	139.9	138.2	139.9	137.6	138.2	137.6	136.4	134.6	128.7
75°	110.2	111.4	110.2	112.0	110.2	111.4	110.2	110.7	110.2	109.0	104.8
77.5°	84.0	85.2	84.0	84.0	84.0	85.2	84.0	84.5	84.5	84.5	81.0
80°	59.6	59.0	59.0	58.3	59.0	59.0	59.6	59.6	60.1	59.0	57.8
82.5°	38.1	37.6	37.6	38.7	37.6	37.6	38.1	38.7	37.6	37.6	37.6
85°	20.9	21.4	20.2	20.2	20.2	21.4	20.9	19.6	20.9	20.9	20.2
87.5°	7.7	7.1	7.1	7.1	7.1	7.1	7.7	8.3	8.3	8.3	9.0
90°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	18.7	25.0	28.1	24.2
92.5°	70.2	67.4	56.2	45.0	56.2	67.4	70.2	99.5	138.5	158.1	138.8
95°	238.3	229.8	196.0	162.1	196.0	229.8	238.3	312.8	412.3	462.0	390.2
97.5°	549.9	533.9	469.5	405.2	469.5	533.9	549.9	597.1	660.0	691.4	571.7
100°	772.3	753.1	676.5	599.8	676.5	753.1	772.3	768.8	764.3	762.0	629.1
102.5°	962.1	945.7	880.1	814.5	880.1	945.7	962.1	902.1	822.0	782.0	647.2
105°	1183.8	1175.0	1139.7	1104.4	1139.7	1175.0	1183.8	1049.1	869.5	779.8	649.2
107.5°	1299.1	1301.2	1309.7	1318.2	1309.7	1301.2	1299.1	1111.2	860.6	735.4	620.3
110°	1328.5	1337.8	1374.5	1411.3	1374.5	1337.8	1328.5	1118.5	838.4	698.4	594.7



TEST NUMBER: P935074

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1309.7	1323.8	1380.3	1436.8	1380.3	1323.8	1309.7	1094.7	808.2	664.8	572.3
115°	1245.9	1265.4	1343.7	1422.0	1343.7	1265.4	1245.9	1038.8	762.7	624.6	546.7
117.5°	1157.6	1179.3	1266.1	1353.0	1266.1	1179.3	1157.6	970.7	721.5	596.9	530.7
120°	1098.1	1119.2	1203.6	1288.0	1203.6	1119.2	1098.1	927.3	699.7	585.8	525.3
122.5°	1038.6	1059.4	1142.7	1225.9	1142.7	1059.4	1038.6	884.8	679.8	577.3	522.4
125°	959.9	979.1	1055.7	1132.5	1055.7	979.1	959.9	829.3	655.2	568.1	520.0
127.5°	896.8	913.0	977.7	1042.3	977.7	913.0	896.8	784.6	635.1	560.3	518.7
130°	856.9	871.8	931.6	991.4	931.6	871.8	856.9	757.1	624.0	557.4	519.6
132.5°	822.9	836.3	889.8	943.3	889.8	836.3	822.9	733.5	614.3	554.7	520.0
135°	774.9	786.4	832.5	878.7	832.5	786.4	774.9	700.0	600.3	550.4	519.6
137.5°	739.4	748.9	786.7	824.4	786.7	748.9	739.4	676.1	591.8	549.6	522.8
140°	711.0	719.8	755.2	790.4	755.2	719.8	711.0	656.3	583.4	547.0	523.3
142.5°	691.0	698.7	729.0	759.4	729.0	698.7	691.0	643.0	579.0	547.0	525.2
145°	661.1	666.9	689.9	712.9	689.9	666.9	661.1	621.9	569.6	543.4	525.3
147.5°	636.1	640.9	659.9	678.9	659.9	640.9	636.1	605.2	564.0	543.4	528.8
150°	621.6	625.4	640.9	656.3	640.9	625.4	621.6	595.5	560.8	543.4	530.8
152.5°	610.1	613.1	624.7	636.4	624.7	613.1	610.1	587.9	558.2	543.4	531.9
155°	596.5	598.4	606.1	613.9	606.1	598.4	596.5	578.8	555.2	543.4	534.7
157.5°	584.7	586.0	591.5	596.9	591.5	586.0	584.7	570.9	552.5	543.4	537.3
160°	578.8	579.6	582.7	585.8	582.7	579.6	578.8	567.0	551.3	543.4	538.6
162.5°	573.2	573.9	576.9	579.9	576.9	573.9	573.2	563.3	550.0	543.4	539.9
165°	564.8	565.6	568.7	571.8	568.7	565.6	564.8	557.7	548.2	543.4	541.8
167.5°	561.0	561.4	562.6	564.0	562.6	561.4	561.0	556.3	550.1	547.0	545.7
170°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	556.3	550.1	547.0	546.9
172.5°	558.1	557.8	556.7	555.5	556.7	557.8	558.1	554.4	549.5	547.0	547.0
175°	554.0	554.0	554.0	554.0	554.0	554.0	554.0	551.7	548.6	547.0	547.7
177.5°	553.3	553.0	551.7	550.4	551.7	553.0	553.3	551.4	549.0	547.7	548.3
180°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935074

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	629.5	629.5	629.5	629.5	629.5
2.5°	621.8	624.7	626.5	628.9	634.8
5°	597.9	609.3	612.8	621.8	632.4
7.5°	545.5	580.0	589.5	611.0	627.7
10°	494.9	529.4	546.1	596.7	621.8
12.5°	469.3	489.6	500.8	571.7	613.4
15°	453.2	467.5	475.9	538.4	603.8
17.5°	440.7	450.8	456.8	505.6	590.8
20°	433.0	437.7	443.1	481.8	575.9
22.5°	427.6	424.6	428.8	465.1	555.6
25°	424.0	412.7	417.4	452.0	531.8
27.5°	427.0	402.0	403.8	440.1	506.8
30°	427.6	388.9	389.5	427.6	478.8
32.5°	423.4	375.2	375.8	412.1	447.3
35°	413.3	359.1	358.5	394.3	404.4
37.5°	399.6	341.9	341.9	374.6	357.3
40°	382.9	324.6	326.3	349.0	315.6
42.5°	362.7	306.1	308.5	315.1	284.7
45°	340.6	288.2	290.0	266.2	260.8
47.5°	316.2	269.8	270.4	220.9	253.1
50°	287.1	250.7	248.4	189.4	252.5
52.5°	261.4	229.9	222.7	171.5	229.3
55°	236.4	207.9	192.3	157.8	212.6
57.5°	214.4	179.3	164.4	141.7	209.0
60°	194.1	151.2	139.9	124.5	191.8
62.5°	177.5	130.4	128.0	112.6	173.9
65°	159.6	116.2	115.5	102.5	147.7
67.5°	142.3	106.6	106.0	92.9	112.6
70°	123.9	96.4	95.3	82.8	83.4
72.5°	104.8	85.2	84.0	74.4	69.1
75°	85.8	72.0	71.5	64.9	55.9
77.5°	67.3	57.2	58.3	52.4	41.1
80°	48.2	41.6	42.9	37.6	31.0
82.5°	32.1	27.4	28.6	23.8	20.9
85°	17.8	15.5	16.1	12.5	9.5
87.5°	8.3	7.1	7.1	4.8	3.0
90°	16.3	10.3	9.6	6.7	3.7
92.5°	100.3	71.3	65.0	39.9	14.7
95°	246.6	138.9	127.4	81.4	35.4
97.5°	332.2	152.6	142.4	101.9	61.3
100°	363.4	164.0	154.8	118.0	81.3
102.5°	377.7	175.5	166.9	132.6	98.2
105°	388.2	192.4	185.1	156.1	127.1
107.5°	390.2	217.6	210.8	183.7	156.6
110°	387.2	231.6	225.5	201.0	176.5



TEST NUMBER: P935074

CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	387.3	248.6	242.7	219.4	196.2
115°	390.9	274.0	268.6	247.1	225.6
117.5°	398.2	298.8	293.9	274.4	254.9
120°	404.0	313.2	308.6	290.2	271.8
122.5°	412.6	330.2	325.6	307.1	288.5
125°	424.0	352.0	347.7	330.9	314.0
127.5°	435.5	373.0	368.8	351.6	334.6
130°	443.8	387.1	382.5	364.1	345.7
132.5°	450.6	398.5	393.9	375.5	357.2
135°	458.0	411.9	407.7	390.9	374.2
137.5°	469.0	428.8	424.6	408.1	391.5
140°	475.9	440.3	436.5	421.2	405.9
142.5°	481.6	448.8	445.2	431.1	417.0
145°	488.9	461.7	458.6	446.3	434.0
147.5°	499.8	477.9	474.9	463.0	451.0
150°	505.4	486.4	483.7	472.9	462.0
152.5°	509.1	492.0	489.9	481.7	473.5
155°	517.3	504.2	502.7	496.6	490.5
157.5°	525.3	516.4	514.9	509.0	503.1
160°	529.1	521.9	520.7	516.2	511.6
162.5°	533.0	527.8	526.9	523.5	520.0
165°	538.7	536.3	535.5	532.4	529.2
167.5°	543.1	541.1	540.8	539.3	537.8
170°	546.7	546.7	546.3	544.8	543.4
172.5°	547.0	547.0	546.9	546.7	546.3
175°	549.2	550.4	550.4	550.4	550.4
177.5°	549.5	550.4	550.4	550.4	550.4
180°	550.4	550.4	550.4	550.4	550.4



TEST NUMBER: P935074  
 CATALOG NUMBER: SQ4-FA-100U-050D-940-1D-UNV-STD-W-4

**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	8.90	9.62	10.00	10.72	12.23	11.70	12.42	12.80	13.51	15.03
	3H	9.37	10.01	10.48	11.12	12.65	13.02	13.66	14.13	14.77	16.30
	4H	9.55	10.16	10.67	11.27	12.80	13.45	14.06	14.57	15.17	16.71
	6H	9.66	10.22	10.79	11.33	12.88	13.72	14.28	14.85	15.39	16.94
	8H	9.66	10.19	10.79	11.32	12.86	13.79	14.32	14.92	15.45	16.99
	12H	9.63	10.13	10.76	11.25	12.82	13.82	14.32	14.96	15.44	17.01
4H	2H	9.91	10.52	11.04	11.62	13.16	12.09	12.70	13.22	13.81	15.34
	3H	10.92	11.43	12.06	12.56	14.11	13.57	14.08	14.71	15.22	16.76
	4H	11.19	11.66	12.33	12.78	14.35	14.09	14.56	15.23	15.68	17.25
	6H	11.31	11.71	12.45	12.85	14.41	14.44	14.84	15.58	15.98	17.54
	8H	11.31	11.68	12.45	12.82	14.40	14.54	14.91	15.68	16.05	17.62
	12H	11.27	11.61	12.43	12.76	14.34	14.58	14.92	15.74	16.07	17.65
8H	4H	11.63	12.00	12.77	13.14	14.72	14.20	14.58	15.35	15.71	17.29
	6H	11.88	12.19	13.05	13.37	14.94	14.62	14.93	15.79	16.11	17.69
	8H	11.92	12.19	13.09	13.35	14.95	14.77	15.04	15.94	16.20	17.79
	12H	11.90	12.14	13.08	13.29	14.92	14.86	15.09	16.03	16.25	17.88
12H	4H	11.63	11.96	12.79	13.11	14.70	14.16	14.50	15.32	15.65	17.23
	6H	11.94	12.21	13.11	13.37	14.96	14.62	14.89	15.79	16.05	17.64
	8H	12.00	12.24	13.18	13.39	15.02	14.77	15.01	15.94	16.16	17.79