

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: P935022

Luminaire Tested: SQ4-FA-100U-050D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

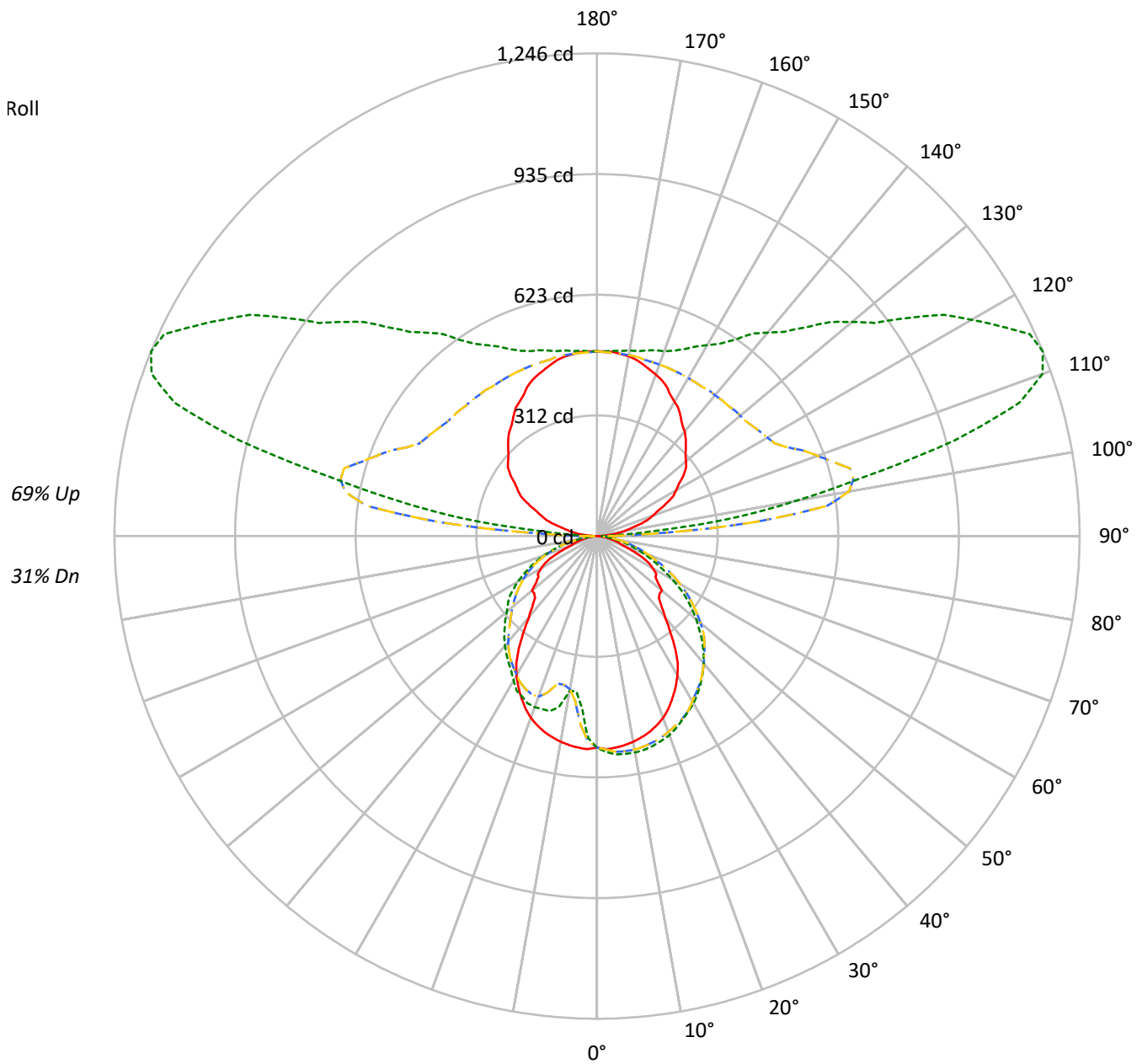
Test Method: LM-79-2019  
Report Number: P935022  
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-927-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4510.7 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

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### Luminous Intensity Polar Plot



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



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

RF	20				20				20				20				20				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°	5066	5066	5066	5066
5°	5097	5113	5097	4020
10°	5058	5036	5058	3601
15°	4997	4927	4997	4115
20°	4886	4798	4886	4123
25°	4668	4609	4668	4035
30°	4385	4453	4385	3844
35°	3904	4255	3904	3633
40°	3247	4022	3247	3474
45°	2895	3749	2895	3290
50°	3070	3423	3070	3106
55°	2879	3073	2879	3000
60°	2958	2610	2958	2748
65°	2670	2157	2670	2411
70°	1835	1719	1835	2021
75°	1590	1271	1590	1522
80°	1259	841	1259	915
85°	679	444	679	379

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4447 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	1.1
10°-20°	139.9	3.1
20°-30°	216.3	4.8
30°-40°	258.2	5.7
40°-50°	259.7	5.8
50°-60°	225.9	5.0
60°-70°	160.2	3.6
70°-80°	84.8	1.9
80°-90°	22.9	0.5
90°-100°	232.6	5.2
100°-110°	611.6	13.6
110°-120°	634.1	14.1
120°-130°	508.6	11.3
130°-140°	399.1	8.8
140°-150°	306.3	6.8
150°-160°	220.6	4.9
160°-170°	135.0	3.0
170°-180°	45.6	1.0
0°-30°	405.4	9.0
0°-40°	663.6	14.7
0°-60°	1149.2	25.5
0°-90°	1417.1	31.4
90°-120°	1478.3	32.8
90°-150°	2692.4	59.7
90°-180°	3094.0	68.6
0°-180°	4510.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	546	546	546	546	546	
5°	548	566	548	445	548	52
15°	524	560	524	468	524	147
25°	461	523	461	458	461	212
35°	351	466	351	398	351	217
45°	226	384	226	337	226	181
55°	184	284	184	277	184	169
65°	128	171	128	191	128	122
75°	48	81	48	97	48	51
85°	8	21	8	18	8	11
90°	3	12	3	12	3	3
95°	31	141	31	141	31	34
105°	110	958	110	958	110	117
115°	196	1233	196	1233	196	193
125°	272	982	272	982	272	242
135°	324	762	324	762	324	251
145°	376	618	376	618	376	236
155°	425	532	425	532	425	195
165°	459	496	459	496	459	130
175°	477	480	477	480	477	45
180°	477	477	477	477	477	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	550.5	550.5	553.6	554.6	554.6	553.1	551.6	553.1	557.7	559.3	558.7
5°	548.4	552.6	558.2	559.3	560.3	559.8	558.7	559.8	564.9	566.0	566.5
7.5°	544.3	552.0	559.3	560.8	562.3	560.8	560.3	561.3	566.5	567.5	567.5
10°	539.2	549.9	558.2	559.3	560.8	559.3	559.3	561.3	566.5	567.5	568.0
12.5°	531.9	546.9	554.6	555.6	557.7	557.2	556.7	558.7	563.9	564.9	564.9
15°	523.6	541.2	548.4	549.5	553.1	552.0	552.0	554.1	559.8	561.3	560.8
17.5°	512.3	534.0	542.2	543.8	546.4	545.9	546.4	548.4	553.6	554.6	555.2
20°	499.3	524.1	534.0	535.5	538.1	538.1	538.1	540.7	545.9	547.9	547.9
22.5°	481.8	513.8	524.1	525.2	528.3	528.3	529.3	532.9	537.5	538.1	538.1
25°	461.2	502.4	511.2	514.4	517.4	519.0	520.5	522.6	524.1	523.6	524.1
27.5°	439.4	488.0	499.3	501.4	505.6	507.1	509.2	509.7	510.2	511.7	510.7
30°	415.2	467.9	484.9	486.9	493.6	494.7	492.6	493.6	496.3	497.3	498.3
32.5°	387.8	437.9	469.9	474.6	480.8	477.7	477.2	478.7	482.9	482.9	483.9
35°	350.7	414.6	456.0	460.2	464.8	461.2	463.2	463.7	466.3	467.9	467.3
37.5°	309.8	394.5	441.5	444.6	448.2	443.6	446.7	448.2	450.3	449.3	449.3
40°	273.7	363.1	424.5	426.6	429.7	426.0	429.1	430.2	431.2	430.2	429.7
42.5°	246.9	328.4	406.4	409.0	406.9	409.5	410.6	412.6	411.0	409.0	409.0
45°	226.1	319.2	386.8	389.9	386.8	390.9	392.5	392.5	387.8	386.8	386.2
47.5°	219.4	300.5	367.1	367.1	365.6	370.8	373.4	369.8	365.1	363.5	363.5
50°	219.0	279.9	340.3	338.3	345.5	351.7	349.1	345.5	341.9	336.2	336.2
52.5°	198.8	254.6	305.7	313.5	324.8	328.4	324.3	320.7	314.5	311.9	309.8
55°	184.3	228.2	274.2	289.7	301.6	306.2	298.5	294.8	285.6	284.1	283.0
57.5°	181.3	190.0	245.3	264.9	279.4	278.9	274.2	267.5	259.7	258.2	257.7
60°	166.3	137.4	214.3	237.5	252.5	250.9	246.9	240.6	233.4	232.4	231.4
62.5°	150.8	99.6	179.2	205.5	226.7	226.1	222.6	213.3	208.1	205.5	203.4
65°	128.1	83.6	127.6	170.9	201.4	202.4	194.7	188.0	182.3	179.2	178.6
67.5°	97.6	68.1	86.2	142.5	177.1	176.1	166.3	163.2	155.9	154.4	151.3
70°	72.3	45.4	59.9	115.7	153.4	150.8	143.1	139.4	132.7	129.1	127.0
72.5°	59.9	36.7	43.9	89.9	129.1	126.0	119.3	115.2	109.5	106.4	104.3
75°	48.5	38.7	33.6	66.6	104.8	102.8	96.6	92.4	87.8	83.6	84.2
77.5°	35.7	36.1	26.9	49.0	83.2	80.1	76.5	71.3	69.2	65.1	65.1
80°	26.9	28.4	20.2	33.6	59.9	59.9	56.8	53.2	49.6	47.5	47.5
82.5°	18.1	18.1	14.9	21.2	40.8	39.3	37.2	36.1	34.1	33.0	33.0
85°	8.2	10.3	9.3	12.9	22.2	23.3	23.3	22.2	21.7	20.6	21.2
87.5°	2.6	4.6	5.7	7.2	11.4	11.9	12.4	12.4	12.4	12.9	12.9
90°	3.2	5.8	8.3	8.9	14.1	20.9	24.3	21.6	16.2	12.2	12.2
92.5°	12.8	34.6	56.4	61.8	86.9	120.4	137.1	120.1	86.2	60.8	58.4
95°	30.7	70.6	110.5	120.4	213.8	338.3	400.6	357.5	271.3	206.6	199.3
97.5°	53.1	88.3	123.5	132.3	288.1	495.7	599.5	572.3	517.7	476.9	462.9
100°	70.5	102.3	134.2	142.2	315.1	545.5	660.7	662.7	666.7	669.7	653.0
102.5°	85.2	115.0	144.7	152.2	327.5	561.2	678.1	712.8	782.2	834.3	820.0
105°	110.2	135.4	160.5	166.9	336.6	562.9	676.1	754.0	909.7	1026.5	1018.9
107.5°	135.8	159.3	182.8	188.6	338.3	537.8	637.6	746.3	963.5	1126.4	1128.3
110°	153.1	174.3	195.5	200.8	335.7	515.7	605.6	727.0	969.9	1152.0	1160.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	170.1	190.3	210.4	215.5	335.9	496.3	576.5	700.8	949.3	1135.7	1147.9
115°	195.7	214.3	232.9	237.6	339.0	474.1	541.6	661.4	900.7	1080.3	1097.2
117.5°	221.0	237.9	254.9	259.1	345.3	460.2	517.6	625.6	841.7	1003.8	1022.6
120°	235.7	251.6	267.6	271.6	350.4	455.5	508.0	606.7	804.1	952.2	970.5
122.5°	250.2	266.3	282.4	286.4	357.7	453.0	500.6	589.4	767.2	900.6	918.6
125°	272.3	286.9	301.5	305.2	367.7	450.9	492.6	568.1	719.1	832.4	849.0
127.5°	290.1	304.9	319.8	323.5	377.6	449.8	485.9	550.7	680.4	777.6	791.6
130°	299.8	315.7	331.6	335.6	384.8	450.5	483.3	541.1	656.5	743.1	756.0
132.5°	309.7	325.6	341.6	345.6	390.7	450.9	481.0	532.7	636.0	713.6	725.2
135°	324.5	339.0	353.5	357.1	397.2	450.5	477.2	520.5	607.0	671.9	681.9
137.5°	339.5	353.9	368.2	371.8	406.7	453.3	476.6	513.1	586.3	641.2	649.3
140°	352.0	365.2	378.5	381.8	412.6	453.8	474.3	505.9	569.1	616.5	624.2
142.5°	361.6	373.8	386.1	389.2	417.6	455.4	474.3	502.0	557.6	599.2	605.8
145°	376.3	387.0	397.6	400.3	424.0	455.5	471.2	493.9	539.2	573.3	578.3
147.5°	391.1	401.5	411.8	414.4	433.4	458.5	471.2	489.0	524.8	551.6	555.7
150°	400.6	410.0	419.4	421.8	438.3	460.2	471.2	486.3	516.4	539.0	542.3
152.5°	410.6	417.6	424.8	426.6	441.4	461.2	471.2	484.0	509.7	529.1	531.6
155°	425.3	430.6	435.9	437.2	448.5	463.6	471.2	481.4	501.9	517.2	518.9
157.5°	436.2	441.4	446.4	447.8	455.5	465.9	471.2	479.1	495.0	507.0	508.1
160°	443.6	447.6	451.5	452.5	458.8	467.0	471.2	478.0	491.6	501.9	502.6
162.5°	450.9	453.9	456.9	457.7	462.2	468.2	471.2	476.9	488.4	497.0	497.7
165°	458.9	461.6	464.3	465.0	467.1	469.8	471.2	475.3	483.6	489.7	490.4
167.5°	466.3	467.6	468.9	469.2	470.9	473.2	474.3	477.0	482.4	486.5	486.8
170°	471.2	472.4	473.7	474.0	474.1	474.2	474.3	477.0	482.4	486.5	486.5
172.5°	473.7	474.0	474.2	474.3	474.3	474.3	474.3	476.5	480.7	483.9	483.7
175°	477.2	477.2	477.2	477.2	476.2	474.9	474.3	475.7	478.4	480.4	480.4
177.5°	477.2	477.2	477.2	477.2	476.5	475.5	474.9	476.0	478.2	479.8	479.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	559.8	558.2	559.8	558.7	559.3	557.7	553.1	551.6	553.1	554.6	554.6
5°	566.5	565.5	566.5	566.5	566.0	564.9	559.8	558.7	559.8	560.3	559.3
7.5°	568.6	567.0	568.6	567.5	567.5	566.5	561.3	560.3	560.8	562.3	560.8
10°	568.6	567.0	568.6	568.0	567.5	566.5	561.3	559.3	559.3	560.8	559.3
12.5°	566.0	564.9	566.0	564.9	564.9	563.9	558.7	556.7	557.2	557.7	555.6
15°	561.9	560.3	561.9	560.8	561.3	559.8	554.1	552.0	552.0	553.1	549.5
17.5°	555.6	553.6	555.6	555.2	554.6	553.6	548.4	546.4	545.9	546.4	543.8
20°	548.4	546.9	548.4	547.9	547.9	545.9	540.7	538.1	538.1	538.1	535.5
22.5°	537.1	535.5	537.1	538.1	538.1	537.5	532.9	529.3	528.3	528.3	525.2
25°	524.1	522.6	524.1	524.1	523.6	524.1	522.6	520.5	519.0	517.4	514.4
27.5°	511.7	510.7	511.7	510.7	511.7	510.2	509.7	509.2	507.1	505.6	501.4
30°	499.3	498.3	499.3	498.3	497.3	496.3	493.6	492.6	494.7	493.6	486.9
32.5°	483.9	482.9	483.9	483.9	482.9	482.9	478.7	477.2	477.7	480.8	474.6
35°	467.9	466.3	467.9	467.3	467.9	466.3	463.7	463.2	461.2	464.8	460.2
37.5°	449.3	447.8	449.3	449.3	449.3	450.3	448.2	446.7	443.6	448.2	444.6
40°	430.2	428.1	430.2	429.7	430.2	431.2	430.2	429.1	426.0	429.7	426.6
42.5°	408.5	407.9	408.5	409.0	409.0	411.0	412.6	410.6	409.5	406.9	409.0
45°	385.2	384.2	385.2	386.2	386.8	387.8	392.5	392.5	390.9	386.8	389.9
47.5°	360.4	357.9	360.4	363.5	363.5	365.1	369.8	373.4	370.8	365.6	367.1
50°	334.1	334.6	334.1	336.2	336.2	341.9	345.5	349.1	351.7	345.5	338.3
52.5°	308.3	307.8	308.3	309.8	311.9	314.5	320.7	324.3	328.4	324.8	313.5
55°	282.4	283.5	282.4	283.0	284.1	285.6	294.8	298.5	306.2	301.6	289.7
57.5°	256.6	255.1	256.6	257.7	258.2	259.7	267.5	274.2	278.9	279.4	264.9
60°	226.7	224.6	226.7	231.4	232.4	233.4	240.6	246.9	250.9	252.5	237.5
62.5°	200.4	196.7	200.4	203.4	205.5	208.1	213.3	222.6	226.1	226.7	205.5
65°	172.5	170.9	172.5	178.6	179.2	182.3	188.0	194.7	202.4	201.4	170.9
67.5°	147.1	147.1	147.1	151.3	154.4	155.9	163.2	166.3	176.1	177.1	142.5
70°	124.0	123.4	124.0	127.0	129.1	132.7	139.4	143.1	150.8	153.4	115.7
72.5°	101.7	101.2	101.7	104.3	106.4	109.5	115.2	119.3	126.0	129.1	89.9
75°	82.1	81.1	82.1	84.2	83.6	87.8	92.4	96.6	102.8	104.8	66.6
77.5°	63.0	63.0	63.0	65.1	65.1	69.2	71.3	76.5	80.1	83.2	49.0
80°	47.0	46.5	47.0	47.5	47.5	49.6	53.2	56.8	59.9	59.9	33.6
82.5°	33.0	32.0	33.0	33.0	33.0	34.1	36.1	37.2	39.3	40.8	21.2
85°	20.6	20.6	20.6	21.2	20.6	21.7	22.2	23.3	23.3	22.2	12.9
87.5°	13.4	12.9	13.4	12.9	12.9	12.4	12.4	12.4	11.9	11.4	7.2
90°	12.2	12.2	12.2	12.2	12.2	16.2	21.6	24.3	20.9	14.1	8.9
92.5°	48.7	39.0	48.7	58.4	60.8	86.2	120.1	137.1	120.4	86.9	61.8
95°	169.9	140.6	169.9	199.3	206.6	271.3	357.5	400.6	338.3	213.8	120.4
97.5°	407.1	351.4	407.1	462.9	476.9	517.7	572.3	599.5	495.7	288.1	132.3
100°	586.6	520.1	586.6	653.0	669.7	666.7	662.7	660.7	545.5	315.1	142.2
102.5°	763.1	706.2	763.1	820.0	834.3	782.2	712.8	678.1	561.2	327.5	152.2
105°	988.2	957.6	988.2	1018.9	1026.5	909.7	754.0	676.1	562.9	336.6	166.9
107.5°	1135.7	1143.1	1135.7	1128.3	1126.4	963.5	746.3	637.6	537.8	338.3	188.6
110°	1191.9	1223.8	1191.9	1160.0	1152.0	969.9	727.0	605.6	515.7	335.7	200.8





TEST NUMBER: P935022

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1196.9	1245.9	1196.9	1147.9	1135.7	949.3	700.8	576.5	496.3	335.9	215.5
115°	1165.2	1233.1	1165.2	1097.2	1080.3	900.7	661.4	541.6	474.1	339.0	237.6
117.5°	1097.9	1173.2	1097.9	1022.6	1003.8	841.7	625.6	517.6	460.2	345.3	259.1
120°	1043.7	1116.8	1043.7	970.5	952.2	804.1	606.7	508.0	455.5	350.4	271.6
122.5°	990.8	1063.0	990.8	918.6	900.6	767.2	589.4	500.6	453.0	357.7	286.4
125°	915.5	982.0	915.5	849.0	832.4	719.1	568.1	492.6	450.9	367.7	305.2
127.5°	847.8	903.8	847.8	791.6	777.6	680.4	550.7	485.9	449.8	377.6	323.5
130°	807.8	859.6	807.8	756.0	743.1	656.5	541.1	483.3	450.5	384.8	335.6
132.5°	771.5	818.0	771.5	725.2	713.6	636.0	532.7	481.0	450.9	390.7	345.6
135°	721.9	761.9	721.9	681.9	671.9	607.0	520.5	477.2	450.5	397.2	357.1
137.5°	682.1	714.9	682.1	649.3	641.2	586.3	513.1	476.6	453.3	406.7	371.8
140°	654.8	685.4	654.8	624.2	616.5	569.1	505.9	474.3	453.8	412.6	381.8
142.5°	632.2	658.5	632.2	605.8	599.2	557.6	502.0	474.3	455.4	417.6	389.2
145°	598.2	618.2	598.2	578.3	573.3	539.2	493.9	471.2	455.5	424.0	400.3
147.5°	572.2	588.7	572.2	555.7	551.6	524.8	489.0	471.2	458.5	433.4	414.4
150°	555.7	569.1	555.7	542.3	539.0	516.4	486.3	471.2	460.2	438.3	421.8
152.5°	541.7	551.9	541.7	531.6	529.1	509.7	484.0	471.2	461.2	441.4	426.6
155°	525.6	532.3	525.6	518.9	517.2	501.9	481.4	471.2	463.6	448.5	437.2
157.5°	512.9	517.6	512.9	508.1	507.0	495.0	479.1	471.2	465.9	455.5	447.8
160°	505.3	508.0	505.3	502.6	501.9	491.6	478.0	471.2	467.0	458.8	452.5
162.5°	500.3	502.8	500.3	497.7	497.0	488.4	476.9	471.2	468.2	462.2	457.7
165°	493.1	495.8	493.1	490.4	489.7	483.6	475.3	471.2	469.8	467.1	465.0
167.5°	487.9	489.0	487.9	486.8	486.5	482.4	477.0	474.3	473.2	470.9	469.2
170°	486.5	486.5	486.5	486.5	486.5	482.4	477.0	474.3	474.2	474.1	474.0
172.5°	482.7	481.7	482.7	483.7	483.9	480.7	476.5	474.3	474.3	474.3	474.3
175°	480.4	480.4	480.4	480.4	480.4	478.4	475.7	474.3	474.9	476.2	477.2
177.5°	478.4	477.2	478.4	479.5	479.8	478.2	476.0	474.9	475.5	476.5	477.2
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935022

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	553.6	550.5	550.5	545.3	543.2	541.7	539.2	531.4	529.3	527.2	530.4
5°	558.2	552.6	548.4	539.2	531.4	528.3	518.4	499.9	487.5	478.2	473.0
7.5°	559.3	552.0	544.3	529.8	511.2	503.0	473.0	439.0	429.7	421.4	416.2
10°	558.2	549.9	539.2	517.4	473.6	459.1	429.1	406.9	401.2	399.7	401.2
12.5°	554.6	546.9	531.9	495.7	434.3	424.5	406.9	394.0	393.0	395.5	409.5
15°	548.4	541.2	523.6	466.9	412.6	405.4	393.0	388.3	394.0	412.1	453.9
17.5°	542.2	534.0	512.3	438.4	396.1	390.9	382.2	391.5	423.4	447.8	461.7
20°	534.0	524.1	499.3	417.8	384.2	379.5	375.5	417.3	441.5	450.3	458.1
22.5°	524.1	513.8	481.8	403.3	371.8	368.2	370.8	431.7	441.5	447.8	454.5
25°	511.2	502.4	461.2	391.9	362.0	357.9	367.7	430.2	435.8	437.4	450.8
27.5°	499.3	488.0	439.4	381.6	350.1	348.6	370.3	423.4	427.6	429.1	443.6
30°	484.9	467.9	415.2	370.8	337.7	337.2	370.8	415.2	414.2	418.3	432.7
32.5°	469.9	437.9	387.8	357.4	325.9	325.3	367.1	402.8	401.8	407.4	418.3
35°	456.0	414.6	350.7	341.9	310.8	311.4	358.4	388.3	388.8	394.0	400.7
37.5°	441.5	394.5	309.8	324.8	296.4	296.4	346.5	374.9	373.9	375.5	384.7
40°	424.5	363.1	273.7	302.6	283.0	281.4	332.0	360.4	356.8	356.4	369.2
42.5°	406.4	328.4	246.9	273.2	267.5	265.4	314.5	342.9	336.2	337.7	354.3
45°	386.8	319.2	226.1	230.8	251.5	249.9	295.4	322.8	318.1	322.2	339.3
47.5°	367.1	300.5	219.4	191.6	234.5	233.9	274.2	303.1	300.5	304.7	322.8
50°	340.3	279.9	219.0	164.2	215.4	217.4	248.9	284.1	284.1	287.7	306.8
52.5°	305.7	254.6	198.8	148.7	193.1	199.4	226.7	267.5	268.5	272.1	289.2
55°	274.2	228.2	184.3	136.8	166.8	180.3	205.0	250.5	252.5	256.1	271.7
57.5°	245.3	190.0	181.3	122.9	142.5	155.5	185.9	233.9	234.9	238.1	253.0
60°	214.3	137.4	166.3	108.0	121.4	131.1	168.3	214.3	217.9	220.0	232.9
62.5°	179.2	99.6	150.8	97.6	111.0	113.1	153.9	195.7	200.4	201.9	209.7
65°	127.6	83.6	128.1	88.9	100.2	100.7	138.4	176.6	180.7	183.3	189.0
67.5°	86.2	68.1	97.6	80.5	91.9	92.4	123.4	154.4	160.1	162.2	165.8
70°	59.9	45.4	72.3	71.8	82.6	83.6	107.4	134.3	139.4	141.0	143.1
72.5°	43.9	36.7	59.9	64.5	72.8	73.8	90.9	111.6	116.7	118.3	119.3
75°	33.6	38.7	48.5	56.3	62.0	62.4	74.4	90.9	94.5	95.6	96.0
77.5°	26.9	36.1	35.7	45.4	50.6	49.6	58.4	70.2	73.3	73.3	73.3
80°	20.2	28.4	26.9	32.6	37.2	36.1	41.8	50.1	51.1	52.1	51.7
82.5°	14.9	18.1	18.1	20.6	24.8	23.8	27.9	32.6	32.6	32.6	33.6
85°	9.3	10.3	8.2	10.9	13.9	13.4	15.5	17.6	18.1	18.1	17.0
87.5°	5.7	4.6	2.6	4.2	6.2	6.2	7.2	7.8	7.2	7.2	7.2
90°	8.3	5.8	3.2	5.8	8.3	8.9	14.1	20.9	24.3	21.6	16.2
92.5°	56.4	34.6	12.8	34.6	56.4	61.8	86.9	120.4	137.1	120.1	86.2
95°	110.5	70.6	30.7	70.6	110.5	120.4	213.8	338.3	400.6	357.5	271.3
97.5°	123.5	88.3	53.1	88.3	123.5	132.3	288.1	495.7	599.5	572.3	517.7
100°	134.2	102.3	70.5	102.3	134.2	142.2	315.1	545.5	660.7	662.7	666.7
102.5°	144.7	115.0	85.2	115.0	144.7	152.2	327.5	561.2	678.1	712.8	782.2
105°	160.5	135.4	110.2	135.4	160.5	166.9	336.6	562.9	676.1	754.0	909.7
107.5°	182.8	159.3	135.8	159.3	182.8	188.6	338.3	537.8	637.6	746.3	963.5
110°	195.5	174.3	153.1	174.3	195.5	200.8	335.7	515.7	605.6	727.0	969.9



TEST NUMBER: P935022

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	210.4	190.3	170.1	190.3	210.4	215.5	335.9	496.3	576.5	700.8	949.3
115°	232.9	214.3	195.7	214.3	232.9	237.6	339.0	474.1	541.6	661.4	900.7
117.5°	254.9	237.9	221.0	237.9	254.9	259.1	345.3	460.2	517.6	625.6	841.7
120°	267.6	251.6	235.7	251.6	267.6	271.6	350.4	455.5	508.0	606.7	804.1
122.5°	282.4	266.3	250.2	266.3	282.4	286.4	357.7	453.0	500.6	589.4	767.2
125°	301.5	286.9	272.3	286.9	301.5	305.2	367.7	450.9	492.6	568.1	719.1
127.5°	319.8	304.9	290.1	304.9	319.8	323.5	377.6	449.8	485.9	550.7	680.4
130°	331.6	315.7	299.8	315.7	331.6	335.6	384.8	450.5	483.3	541.1	656.5
132.5°	341.6	325.6	309.7	325.6	341.6	345.6	390.7	450.9	481.0	532.7	636.0
135°	353.5	339.0	324.5	339.0	353.5	357.1	397.2	450.5	477.2	520.5	607.0
137.5°	368.2	353.9	339.5	353.9	368.2	371.8	406.7	453.3	476.6	513.1	586.3
140°	378.5	365.2	352.0	365.2	378.5	381.8	412.6	453.8	474.3	505.9	569.1
142.5°	386.1	373.8	361.6	373.8	386.1	389.2	417.6	455.4	474.3	502.0	557.6
145°	397.6	387.0	376.3	387.0	397.6	400.3	424.0	455.5	471.2	493.9	539.2
147.5°	411.8	401.5	391.1	401.5	411.8	414.4	433.4	458.5	471.2	489.0	524.8
150°	419.4	410.0	400.6	410.0	419.4	421.8	438.3	460.2	471.2	486.3	516.4
152.5°	424.8	417.6	410.6	417.6	424.8	426.6	441.4	461.2	471.2	484.0	509.7
155°	435.9	430.6	425.3	430.6	435.9	437.2	448.5	463.6	471.2	481.4	501.9
157.5°	446.4	441.4	436.2	441.4	446.4	447.8	455.5	465.9	471.2	479.1	495.0
160°	451.5	447.6	443.6	447.6	451.5	452.5	458.8	467.0	471.2	478.0	491.6
162.5°	456.9	453.9	450.9	453.9	456.9	457.7	462.2	468.2	471.2	476.9	488.4
165°	464.3	461.6	458.9	461.6	464.3	465.0	467.1	469.8	471.2	475.3	483.6
167.5°	468.9	467.6	466.3	467.6	468.9	469.2	470.9	473.2	474.3	477.0	482.4
170°	473.7	472.4	471.2	472.4	473.7	474.0	474.1	474.2	474.3	477.0	482.4
172.5°	474.2	474.0	473.7	474.0	474.2	474.3	474.3	474.3	474.3	476.5	480.7
175°	477.2	477.2	477.2	477.2	477.2	477.2	476.2	474.9	474.3	475.7	478.4
177.5°	477.2	477.2	477.2	477.2	477.2	477.2	476.5	475.5	474.9	476.0	478.2
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935022

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	526.8	525.2	527.2	521.6	527.2	525.2	526.8	530.4	527.2	529.3	531.4
5°	462.2	459.6	451.4	444.6	451.4	459.6	462.2	473.0	478.2	487.5	499.9
7.5°	413.1	411.0	409.0	404.9	409.0	411.0	413.1	416.2	421.4	429.7	439.0
10°	402.2	402.8	405.9	405.4	405.9	402.8	402.2	401.2	399.7	401.2	406.9
12.5°	430.2	434.8	451.8	450.8	451.8	434.8	430.2	409.5	395.5	393.0	394.0
15°	462.2	463.7	467.3	467.9	467.3	463.7	462.2	453.9	412.1	394.0	388.3
17.5°	465.3	465.8	468.4	468.4	468.4	465.8	465.3	461.7	447.8	423.4	391.5
20°	462.7	463.7	468.9	469.9	468.9	463.7	462.7	458.1	450.3	441.5	417.3
22.5°	461.7	463.7	467.9	467.3	467.9	463.7	461.7	454.5	447.8	441.5	431.7
25°	456.5	456.5	457.0	457.5	457.0	456.5	456.5	450.8	437.4	435.8	430.2
27.5°	445.7	446.7	449.8	449.3	449.8	446.7	445.7	443.6	429.1	427.6	423.4
30°	435.8	434.8	432.2	430.2	432.2	434.8	435.8	432.7	418.3	414.2	415.2
32.5°	419.3	416.7	414.2	412.6	414.2	416.7	419.3	418.3	407.4	401.8	402.8
35°	399.7	400.2	399.7	398.2	399.7	400.2	399.7	400.7	394.0	388.8	388.3
37.5°	385.8	386.8	386.2	384.2	386.2	386.8	385.8	384.7	375.5	373.9	374.9
40°	371.3	371.8	371.3	369.8	371.3	371.8	371.3	369.2	356.4	356.8	360.4
42.5°	357.4	356.8	355.3	354.3	355.3	356.8	357.4	354.3	337.7	336.2	342.9
45°	341.3	341.9	338.7	337.2	338.7	341.9	341.3	339.3	322.2	318.1	322.8
47.5°	325.3	325.3	322.8	321.2	322.8	325.3	325.3	322.8	304.7	300.5	303.1
50°	308.3	307.8	304.2	303.6	304.2	307.8	308.3	306.8	287.7	284.1	284.1
52.5°	288.7	288.7	289.2	290.2	289.2	288.7	288.7	289.2	272.1	268.5	267.5
55°	271.7	272.1	275.7	276.8	275.7	272.1	271.7	271.7	256.1	252.5	250.5
57.5°	254.1	254.1	256.6	256.6	256.6	254.1	254.1	253.0	238.1	234.9	233.9
60°	233.9	234.9	237.0	236.5	237.0	234.9	233.9	232.9	220.0	217.9	214.3
62.5°	212.8	213.8	214.3	213.3	214.3	213.8	212.8	209.7	201.9	200.4	195.7
65°	190.6	191.6	192.1	191.0	192.1	191.6	190.6	189.0	183.3	180.7	176.6
67.5°	167.9	167.3	166.8	168.9	166.8	167.3	167.9	165.8	162.2	160.1	154.4
70°	144.6	144.6	144.1	145.1	144.1	144.6	144.6	143.1	141.0	139.4	134.3
72.5°	119.8	119.3	121.4	119.8	121.4	119.3	119.8	119.3	118.3	116.7	111.6
75°	95.6	96.6	95.6	97.1	95.6	96.6	95.6	96.0	95.6	94.5	90.9
77.5°	72.8	73.8	72.8	72.8	72.8	73.8	72.8	73.3	73.3	73.3	70.2
80°	51.7	51.1	51.1	50.6	51.1	51.1	51.7	51.7	52.1	51.1	50.1
82.5°	33.0	32.6	32.6	33.6	32.6	32.6	33.0	33.6	32.6	32.6	32.6
85°	18.1	18.6	17.6	17.6	17.6	18.6	18.1	17.0	18.1	18.1	17.6
87.5°	6.7	6.2	6.2	6.2	6.2	6.2	6.7	7.2	7.2	7.2	7.8
90°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	16.2	21.6	24.3	20.9
92.5°	60.8	58.4	48.7	39.0	48.7	58.4	60.8	86.2	120.1	137.1	120.4
95°	206.6	199.3	169.9	140.6	169.9	199.3	206.6	271.3	357.5	400.6	338.3
97.5°	476.9	462.9	407.1	351.4	407.1	462.9	476.9	517.7	572.3	599.5	495.7
100°	669.7	653.0	586.6	520.1	586.6	653.0	669.7	666.7	662.7	660.7	545.5
102.5°	834.3	820.0	763.1	706.2	763.1	820.0	834.3	782.2	712.8	678.1	561.2
105°	1026.5	1018.9	988.2	957.6	988.2	1018.9	1026.5	909.7	754.0	676.1	562.9
107.5°	1126.4	1128.3	1135.7	1143.1	1135.7	1128.3	1126.4	963.5	746.3	637.6	537.8
110°	1152.0	1160.0	1191.9	1223.8	1191.9	1160.0	1152.0	969.9	727.0	605.6	515.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1135.7	1147.9	1196.9	1245.9	1196.9	1147.9	1135.7	949.3	700.8	576.5	496.3
115°	1080.3	1097.2	1165.2	1233.1	1165.2	1097.2	1080.3	900.7	661.4	541.6	474.1
117.5°	1003.8	1022.6	1097.9	1173.2	1097.9	1022.6	1003.8	841.7	625.6	517.6	460.2
120°	952.2	970.5	1043.7	1116.8	1043.7	970.5	952.2	804.1	606.7	508.0	455.5
122.5°	900.6	918.6	990.8	1063.0	990.8	918.6	900.6	767.2	589.4	500.6	453.0
125°	832.4	849.0	915.5	982.0	915.5	849.0	832.4	719.1	568.1	492.6	450.9
127.5°	777.6	791.6	847.8	903.8	847.8	791.6	777.6	680.4	550.7	485.9	449.8
130°	743.1	756.0	807.8	859.6	807.8	756.0	743.1	656.5	541.1	483.3	450.5
132.5°	713.6	725.2	771.5	818.0	771.5	725.2	713.6	636.0	532.7	481.0	450.9
135°	671.9	681.9	721.9	761.9	721.9	681.9	671.9	607.0	520.5	477.2	450.5
137.5°	641.2	649.3	682.1	714.9	682.1	649.3	641.2	586.3	513.1	476.6	453.3
140°	616.5	624.2	654.8	685.4	654.8	624.2	616.5	569.1	505.9	474.3	453.8
142.5°	599.2	605.8	632.2	658.5	632.2	605.8	599.2	557.6	502.0	474.3	455.4
145°	573.3	578.3	598.2	618.2	598.2	578.3	573.3	539.2	493.9	471.2	455.5
147.5°	551.6	555.7	572.2	588.7	572.2	555.7	551.6	524.8	489.0	471.2	458.5
150°	539.0	542.3	555.7	569.1	555.7	542.3	539.0	516.4	486.3	471.2	460.2
152.5°	529.1	531.6	541.7	551.9	541.7	531.6	529.1	509.7	484.0	471.2	461.2
155°	517.2	518.9	525.6	532.3	525.6	518.9	517.2	501.9	481.4	471.2	463.6
157.5°	507.0	508.1	512.9	517.6	512.9	508.1	507.0	495.0	479.1	471.2	465.9
160°	501.9	502.6	505.3	508.0	505.3	502.6	501.9	491.6	478.0	471.2	467.0
162.5°	497.0	497.7	500.3	502.8	500.3	497.7	497.0	488.4	476.9	471.2	468.2
165°	489.7	490.4	493.1	495.8	493.1	490.4	489.7	483.6	475.3	471.2	469.8
167.5°	486.5	486.8	487.9	489.0	487.9	486.8	486.5	482.4	477.0	474.3	473.2
170°	486.5	486.5	486.5	486.5	486.5	486.5	486.5	482.4	477.0	474.3	474.2
172.5°	483.9	483.7	482.7	481.7	482.7	483.7	483.9	480.7	476.5	474.3	474.3
175°	480.4	480.4	480.4	480.4	480.4	480.4	480.4	478.4	475.7	474.3	474.9
177.5°	479.8	479.5	478.4	477.2	478.4	479.5	479.8	478.2	476.0	474.9	475.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	545.9	545.9	545.9	545.9	545.9
2.5°	539.2	541.7	543.2	545.3	550.5
5°	518.4	528.3	531.4	539.2	548.4
7.5°	473.0	503.0	511.2	529.8	544.3
10°	429.1	459.1	473.6	517.4	539.2
12.5°	406.9	424.5	434.3	495.7	531.9
15°	393.0	405.4	412.6	466.9	523.6
17.5°	382.2	390.9	396.1	438.4	512.3
20°	375.5	379.5	384.2	417.8	499.3
22.5°	370.8	368.2	371.8	403.3	481.8
25°	367.7	357.9	362.0	391.9	461.2
27.5°	370.3	348.6	350.1	381.6	439.4
30°	370.8	337.2	337.7	370.8	415.2
32.5°	367.1	325.3	325.9	357.4	387.8
35°	358.4	311.4	310.8	341.9	350.7
37.5°	346.5	296.4	296.4	324.8	309.8
40°	332.0	281.4	283.0	302.6	273.7
42.5°	314.5	265.4	267.5	273.2	246.9
45°	295.4	249.9	251.5	230.8	226.1
47.5°	274.2	233.9	234.5	191.6	219.4
50°	248.9	217.4	215.4	164.2	219.0
52.5°	226.7	199.4	193.1	148.7	198.8
55°	205.0	180.3	166.8	136.8	184.3
57.5°	185.9	155.5	142.5	122.9	181.3
60°	168.3	131.1	121.4	108.0	166.3
62.5°	153.9	113.1	111.0	97.6	150.8
65°	138.4	100.7	100.2	88.9	128.1
67.5°	123.4	92.4	91.9	80.5	97.6
70°	107.4	83.6	82.6	71.8	72.3
72.5°	90.9	73.8	72.8	64.5	59.9
75°	74.4	62.4	62.0	56.3	48.5
77.5°	58.4	49.6	50.6	45.4	35.7
80°	41.8	36.1	37.2	32.6	26.9
82.5°	27.9	23.8	24.8	20.6	18.1
85°	15.5	13.4	13.9	10.9	8.2
87.5°	7.2	6.2	6.2	4.2	2.6
90°	14.1	8.9	8.3	5.8	3.2
92.5°	86.9	61.8	56.4	34.6	12.8
95°	213.8	120.4	110.5	70.6	30.7
97.5°	288.1	132.3	123.5	88.3	53.1
100°	315.1	142.2	134.2	102.3	70.5
102.5°	327.5	152.2	144.7	115.0	85.2
105°	336.6	166.9	160.5	135.4	110.2
107.5°	338.3	188.6	182.8	159.3	135.8
110°	335.7	200.8	195.5	174.3	153.1



TEST NUMBER: P935022

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	335.9	215.5	210.4	190.3	170.1
115°	339.0	237.6	232.9	214.3	195.7
117.5°	345.3	259.1	254.9	237.9	221.0
120°	350.4	271.6	267.6	251.6	235.7
122.5°	357.7	286.4	282.4	266.3	250.2
125°	367.7	305.2	301.5	286.9	272.3
127.5°	377.6	323.5	319.8	304.9	290.1
130°	384.8	335.6	331.6	315.7	299.8
132.5°	390.7	345.6	341.6	325.6	309.7
135°	397.2	357.1	353.5	339.0	324.5
137.5°	406.7	371.8	368.2	353.9	339.5
140°	412.6	381.8	378.5	365.2	352.0
142.5°	417.6	389.2	386.1	373.8	361.6
145°	424.0	400.3	397.6	387.0	376.3
147.5°	433.4	414.4	411.8	401.5	391.1
150°	438.3	421.8	419.4	410.0	400.6
152.5°	441.4	426.6	424.8	417.6	410.6
155°	448.5	437.2	435.9	430.6	425.3
157.5°	455.5	447.8	446.4	441.4	436.2
160°	458.8	452.5	451.5	447.6	443.6
162.5°	462.2	457.7	456.9	453.9	450.9
165°	467.1	465.0	464.3	461.6	458.9
167.5°	470.9	469.2	468.9	467.6	466.3
170°	474.1	474.0	473.7	472.4	471.2
172.5°	474.3	474.3	474.2	474.0	473.7
175°	476.2	477.2	477.2	477.2	477.2
177.5°	476.5	477.2	477.2	477.2	477.2
180°	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935022  
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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	8.41	9.12	9.51	10.22	11.73	11.20	11.92	12.31	13.02	14.53
	3H	8.87	9.51	9.98	10.62	12.15	12.53	13.17	13.64	14.28	15.81
	4H	9.06	9.66	10.18	10.77	12.31	12.96	13.57	14.08	14.67	16.21
	6H	9.17	9.73	10.30	10.84	12.39	13.23	13.79	14.36	14.90	16.45
	8H	9.16	9.70	10.30	10.82	12.36	13.29	13.83	14.43	14.95	16.49
	12H	9.13	9.64	10.27	10.76	12.32	13.32	13.83	14.46	14.95	16.51
4H	2H	9.41	10.02	10.54	11.13	12.67	11.60	12.20	12.72	13.31	14.85
	3H	10.43	10.93	11.56	12.07	13.62	13.08	13.59	14.21	14.72	16.27
	4H	10.70	11.16	11.83	12.28	13.85	13.59	14.06	14.73	15.18	16.75
	6H	10.81	11.21	11.96	12.36	13.92	13.94	14.34	15.09	15.49	17.05
	8H	10.81	11.19	11.96	12.33	13.90	14.04	14.41	15.18	15.55	17.13
	12H	10.77	11.11	11.94	12.26	13.84	14.08	14.42	15.25	15.57	17.15
8H	4H	11.13	11.50	12.28	12.64	14.22	13.71	14.08	14.85	15.22	16.79
	6H	11.39	11.70	12.55	12.88	14.45	14.13	14.44	15.29	15.62	17.19
	8H	11.43	11.70	12.60	12.86	14.45	14.27	14.54	15.44	15.70	17.30
	12H	11.41	11.64	12.58	12.80	14.43	14.36	14.60	15.53	15.75	17.38
12H	4H	11.13	11.47	12.29	12.62	14.20	13.66	14.00	14.82	15.15	16.73
	6H	11.45	11.71	12.62	12.87	14.47	14.13	14.39	15.30	15.55	17.15
	8H	11.51	11.74	12.68	12.90	14.53	14.27	14.51	15.45	15.67	17.29