

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: P935050

Luminaire Tested: SQ4-FA-100U-050D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935050
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-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

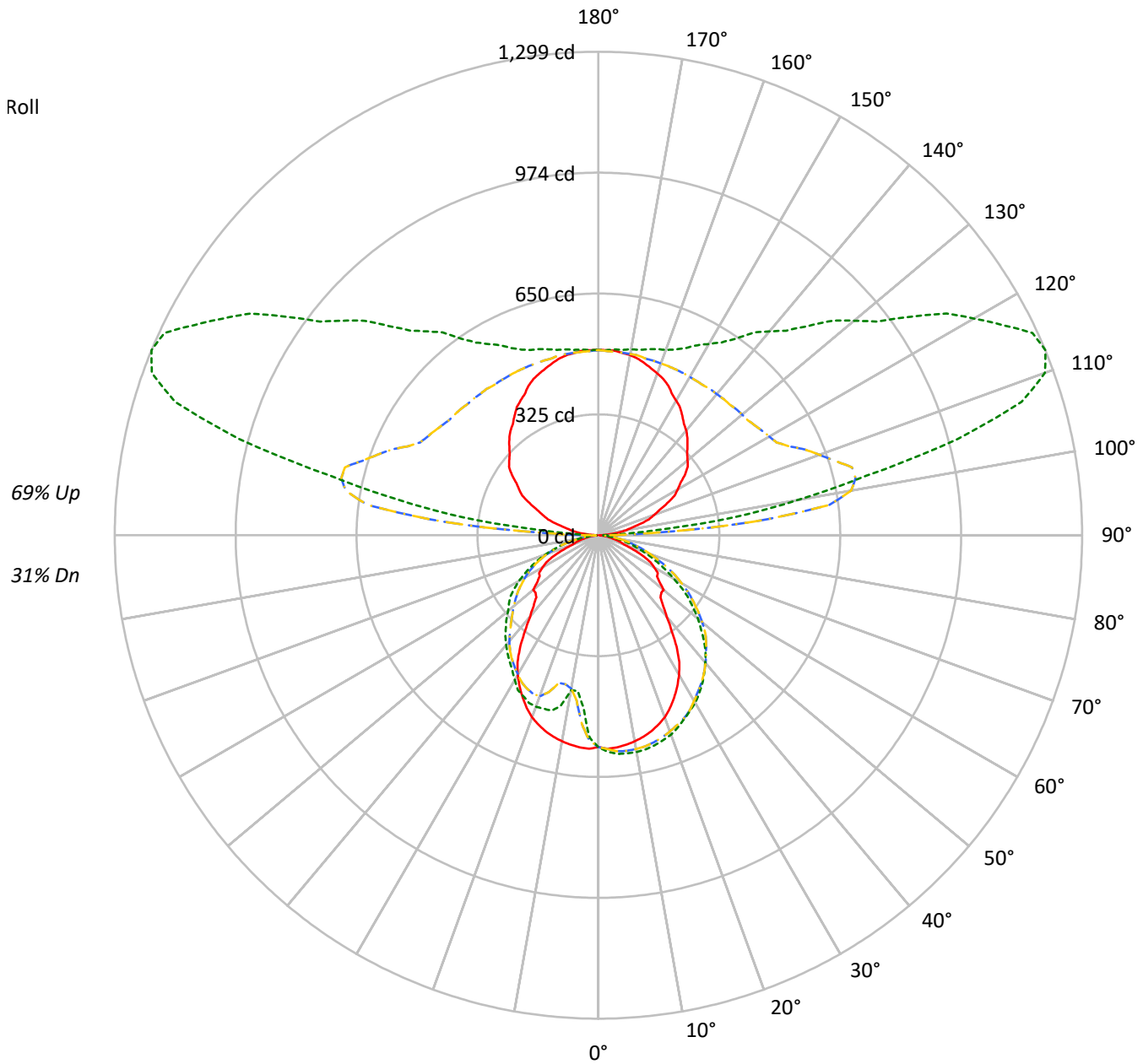
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4704.0 lumens
Efficiency: N/A
Efficacy: 114.2 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: P935050
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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°	5282	5282	5282	5282
5°	5315	5332	5315	4193
10°	5275	5252	5275	3755
15°	5210	5138	5210	4291
20°	5095	5004	5095	4300
25°	4867	4807	4867	4208
30°	4573	4644	4573	4009
35°	4071	4437	4071	3789
40°	3386	4195	3386	3623
45°	3019	3910	3019	3431
50°	3202	3571	3202	3239
55°	3002	3205	3002	3129
60°	3084	2721	3084	2866
65°	2782	2251	2782	2514
70°	1914	1793	1914	2109
75°	1659	1326	1659	1588
80°	1310	877	1310	955
85°	712	463	712	394

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4637 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.1
10°-20°	145.9	3.1
20°-30°	225.5	4.8
30°-40°	269.2	5.7
40°-50°	270.8	5.8
50°-60°	235.6	5.0
60°-70°	167.1	3.6
70°-80°	88.4	1.9
80°-90°	23.9	0.5
90°-100°	242.6	5.2
100°-110°	637.8	13.6
110°-120°	661.3	14.1
120°-130°	530.4	11.3
130°-140°	416.2	8.8
140°-150°	319.5	6.8
150°-160°	230.1	4.9
160°-170°	140.8	3.0
170°-180°	47.6	1.0
0°-30°	422.8	9.0
0°-40°	692.0	14.7
0°-60°	1198.4	25.5
0°-90°	1477.8	31.4
90°-120°	1541.7	32.8
90°-150°	2807.8	59.7
90°-180°	3226.0	68.6
0°-180°	4704.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	569	569	569	569	569	
5°	572	590	572	464	572	54
15°	546	584	546	488	546	154
25°	481	545	481	477	481	221
35°	366	486	366	415	366	226
45°	236	401	236	352	236	189
55°	192	296	192	289	192	177
65°	134	178	134	199	134	128
75°	51	85	51	101	51	53
85°	9	22	9	18	9	12
90°	3	13	3	13	3	3
95°	32	147	32	147	32	36
105°	115	999	115	999	115	122
115°	204	1286	204	1286	204	202
125°	284	1024	284	1024	284	252
135°	338	795	338	795	338	262
145°	392	645	392	645	392	246
155°	444	555	444	555	444	204
165°	479	517	479	517	479	135
175°	498	501	498	501	498	47
180°	498	498	498	498	498	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	574.1	574.1	577.3	578.4	578.4	576.8	575.2	576.8	581.6	583.2	582.7
5°	571.9	576.2	582.2	583.2	584.3	583.8	582.7	583.8	589.2	590.2	590.8
7.5°	567.6	575.7	583.2	584.8	586.4	584.8	584.3	585.4	590.8	591.8	591.8
10°	562.3	573.5	582.2	583.2	584.8	583.2	583.2	585.4	590.8	591.8	592.4
12.5°	554.7	570.3	578.4	579.4	581.6	581.1	580.6	582.7	588.1	589.2	589.2
15°	546.0	564.3	571.9	573.0	576.8	575.7	575.7	577.8	583.8	585.4	584.8
17.5°	534.2	556.9	565.5	567.1	569.8	569.2	569.8	571.9	577.3	578.4	579.0
20°	520.7	546.6	556.9	558.5	561.1	561.1	561.1	563.9	569.2	571.4	571.4
22.5°	502.4	535.8	546.6	547.7	550.9	550.9	552.0	555.8	560.6	561.1	561.1
25°	480.9	524.0	533.1	536.4	539.6	541.2	542.8	545.0	546.6	546.0	546.6
27.5°	458.3	508.9	520.7	522.9	527.2	528.9	531.0	531.5	532.1	533.7	532.6
30°	433.0	487.9	505.6	507.8	514.8	515.9	513.8	514.8	517.5	518.6	519.7
32.5°	404.5	456.7	490.1	494.9	501.4	498.2	497.6	499.2	503.6	503.6	504.6
35°	365.7	432.4	475.5	479.9	484.7	480.9	483.1	483.6	486.3	487.9	487.3
37.5°	323.1	411.5	460.4	463.7	467.4	462.6	465.8	467.4	469.6	468.6	468.6
40°	285.4	378.6	442.7	444.9	448.1	444.3	447.5	448.6	449.7	448.6	448.1
42.5°	257.4	342.5	423.8	426.6	424.4	427.0	428.2	430.3	428.6	426.6	426.6
45°	235.8	332.8	403.3	406.6	403.3	407.7	409.3	409.3	404.5	403.3	402.8
47.5°	228.9	313.4	382.9	382.9	381.3	386.6	389.4	385.6	380.8	379.1	379.1
50°	228.4	291.9	354.9	352.8	360.3	366.7	364.1	360.3	356.5	350.6	350.6
52.5°	207.3	265.5	318.8	326.9	338.7	342.5	338.2	334.4	327.9	325.3	323.1
55°	192.2	238.0	285.9	302.1	314.5	319.4	311.2	307.5	297.8	296.2	295.1
57.5°	189.0	198.2	255.8	276.2	291.3	290.8	285.9	279.0	270.9	269.2	268.8
60°	173.4	143.3	223.5	247.7	263.3	261.7	257.4	250.9	243.4	242.3	241.3
62.5°	157.2	103.9	186.9	214.3	236.4	235.8	232.1	222.4	217.1	214.3	212.2
65°	133.5	87.2	133.1	178.3	210.1	211.1	203.0	196.0	190.1	186.9	186.3
67.5°	101.8	71.1	89.9	148.6	184.7	183.6	173.4	170.2	162.6	161.0	157.8
70°	75.4	47.4	62.5	120.6	160.0	157.2	149.2	145.4	138.4	134.7	132.5
72.5°	62.5	38.2	45.8	93.7	134.7	131.4	124.4	120.1	114.2	111.0	108.8
75°	50.6	40.4	35.0	69.5	109.3	107.2	100.7	96.4	91.5	87.2	87.8
77.5°	37.2	37.7	28.0	51.2	86.7	83.5	79.7	74.4	72.2	67.9	67.9
80°	28.0	29.6	21.0	35.0	62.5	62.5	59.3	55.5	51.7	49.5	49.5
82.5°	18.9	18.9	15.6	22.1	42.6	41.0	38.8	37.7	35.6	34.4	34.4
85°	8.6	10.8	9.7	13.5	23.1	24.3	24.3	23.1	22.6	21.5	22.1
87.5°	2.7	4.8	5.9	7.5	11.9	12.4	12.9	12.9	12.9	13.5	13.5
90°	3.4	6.0	8.7	9.3	14.7	21.8	25.4	22.6	16.9	12.7	12.7
92.5°	13.3	36.1	58.8	64.5	90.7	125.5	142.9	125.3	89.9	63.4	60.9
95°	32.0	73.6	115.2	125.6	223.0	352.8	417.8	372.8	282.9	215.4	207.8
97.5°	55.4	92.1	128.8	138.0	300.4	517.0	625.2	596.8	539.9	497.3	482.8
100°	73.5	106.7	140.0	148.3	328.6	568.9	689.1	691.1	695.2	698.4	681.0
102.5°	88.8	119.9	150.9	158.7	341.5	585.2	707.1	743.3	815.8	870.1	855.2
105°	114.9	141.2	167.4	174.0	351.1	587.1	705.1	786.3	948.7	1070.5	1062.5
107.5°	141.6	166.1	190.6	196.7	352.8	560.9	665.0	778.3	1004.8	1174.7	1176.6
110°	159.6	181.8	203.9	209.4	350.1	537.8	631.6	758.2	1011.5	1201.4	1209.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	177.4	198.4	219.5	224.8	350.3	517.5	601.2	730.8	989.9	1184.3	1197.1
115°	204.0	223.5	242.9	247.8	353.5	494.4	564.8	689.7	939.3	1126.6	1144.3
117.5°	230.5	248.1	265.8	270.2	360.1	479.9	539.8	652.4	877.8	1046.8	1066.4
120°	245.8	262.4	279.0	283.2	365.4	475.0	529.7	632.7	838.6	993.0	1012.1
122.5°	260.9	277.7	294.5	298.6	373.1	472.4	522.0	614.7	800.1	939.2	958.0
125°	283.9	299.2	314.5	318.3	383.4	470.2	513.7	592.5	749.9	868.0	885.4
127.5°	302.6	318.0	333.5	337.3	393.8	469.0	506.7	574.3	709.5	810.9	825.6
130°	312.6	329.2	345.9	350.0	401.3	469.8	504.0	564.3	684.6	774.9	788.4
132.5°	323.0	339.6	356.2	360.4	407.4	470.2	501.6	555.5	663.3	744.1	756.3
135°	338.4	353.5	368.7	372.4	414.2	469.8	497.7	542.8	633.0	700.7	711.1
137.5°	354.0	369.1	384.0	387.8	424.1	472.7	497.0	535.1	611.4	668.7	677.2
140°	367.1	380.9	394.7	398.1	430.3	473.2	494.6	527.6	593.5	643.0	650.9
142.5°	377.1	389.9	402.6	405.8	435.5	474.9	494.6	523.6	581.5	624.9	631.8
145°	392.4	403.6	414.7	417.5	442.1	475.0	491.4	515.0	562.3	597.8	603.1
147.5°	407.8	418.7	429.4	432.2	451.9	478.2	491.4	510.0	547.2	575.2	579.5
150°	417.8	427.6	437.4	439.9	457.1	480.0	491.4	507.1	538.5	562.1	565.6
152.5°	428.2	435.5	443.0	444.9	460.4	481.0	491.4	504.8	531.6	551.7	554.4
155°	443.6	449.0	454.6	455.9	467.7	483.5	491.4	502.0	523.4	539.4	541.1
157.5°	454.9	460.3	465.6	466.9	475.1	485.9	491.4	499.6	516.2	528.7	529.9
160°	462.6	466.8	470.9	471.9	478.4	487.0	491.4	498.5	512.7	523.4	524.1
162.5°	470.2	473.4	476.5	477.3	482.0	488.2	491.4	497.4	509.3	518.3	519.0
165°	478.6	481.4	484.2	484.9	487.1	489.9	491.4	495.7	504.3	510.7	511.4
167.5°	486.3	487.7	489.0	489.3	491.1	493.4	494.6	497.5	503.1	507.3	507.7
170°	491.4	492.6	494.0	494.3	494.4	494.6	494.6	497.5	503.1	507.3	507.3
172.5°	494.0	494.3	494.6	494.6	494.6	494.6	494.6	496.9	501.3	504.7	504.4
175°	497.7	497.7	497.7	497.7	496.7	495.3	494.6	496.1	498.9	501.0	501.0
177.5°	497.7	497.7	497.7	497.7	496.9	495.9	495.3	496.4	498.7	500.3	500.0
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	583.8	582.2	583.8	582.7	583.2	581.6	576.8	575.2	576.8	578.4	578.4
5°	590.8	589.7	590.8	590.8	590.2	589.2	583.8	582.7	583.8	584.3	583.2
7.5°	592.9	591.3	592.9	591.8	591.8	590.8	585.4	584.3	584.8	586.4	584.8
10°	592.9	591.3	592.9	592.4	591.8	590.8	585.4	583.2	583.2	584.8	583.2
12.5°	590.2	589.2	590.2	589.2	589.2	588.1	582.7	580.6	581.1	581.6	579.4
15°	585.9	584.3	585.9	584.8	585.4	583.8	577.8	575.7	575.7	576.8	573.0
17.5°	579.4	577.3	579.4	579.0	578.4	577.3	571.9	569.8	569.2	569.8	567.1
20°	571.9	570.3	571.9	571.4	571.4	569.2	563.9	561.1	561.1	561.1	558.5
22.5°	560.1	558.5	560.1	561.1	561.1	560.6	555.8	552.0	550.9	550.9	547.7
25°	546.6	545.0	546.6	546.6	546.0	546.6	545.0	542.8	541.2	539.6	536.4
27.5°	533.7	532.6	533.7	532.6	533.7	532.1	531.5	531.0	528.9	527.2	522.9
30°	520.7	519.7	520.7	519.7	518.6	517.5	514.8	513.8	515.9	514.8	507.8
32.5°	504.6	503.6	504.6	504.6	503.6	503.6	499.2	497.6	498.2	501.4	494.9
35°	487.9	486.3	487.9	487.3	487.9	486.3	483.6	483.1	480.9	484.7	479.9
37.5°	468.6	466.9	468.6	468.6	468.6	469.6	467.4	465.8	462.6	467.4	463.7
40°	448.6	446.5	448.6	448.1	448.6	449.7	448.6	447.5	444.3	448.1	444.9
42.5°	426.0	425.4	426.0	426.6	426.6	428.6	430.3	428.2	427.0	424.4	426.6
45°	401.7	400.7	401.7	402.8	403.3	404.5	409.3	409.3	407.7	403.3	406.6
47.5°	375.9	373.2	375.9	379.1	379.1	380.8	385.6	389.4	386.6	381.3	382.9
50°	348.4	349.0	348.4	350.6	350.6	356.5	360.3	364.1	366.7	360.3	352.8
52.5°	321.5	321.0	321.5	323.1	325.3	327.9	334.4	338.2	342.5	338.7	326.9
55°	294.5	295.7	294.5	295.1	296.2	297.8	307.5	311.2	319.4	314.5	302.1
57.5°	267.6	266.0	267.6	268.8	269.2	270.9	279.0	285.9	290.8	291.3	276.2
60°	236.4	234.2	236.4	241.3	242.3	243.4	250.9	257.4	261.7	263.3	247.7
62.5°	208.9	205.2	208.9	212.2	214.3	217.1	222.4	232.1	235.8	236.4	214.3
65°	179.9	178.3	179.9	186.3	186.9	190.1	196.0	203.0	211.1	210.1	178.3
67.5°	153.5	153.5	153.5	157.8	161.0	162.6	170.2	173.4	183.6	184.7	148.6
70°	129.3	128.7	129.3	132.5	134.7	138.4	145.4	149.2	157.2	160.0	120.6
72.5°	106.1	105.5	106.1	108.8	111.0	114.2	120.1	124.4	131.4	134.7	93.7
75°	85.6	84.6	85.6	87.8	87.2	91.5	96.4	100.7	107.2	109.3	69.5
77.5°	65.7	65.7	65.7	67.9	67.9	72.2	74.4	79.7	83.5	86.7	51.2
80°	49.0	48.5	49.0	49.5	49.5	51.7	55.5	59.3	62.5	62.5	35.0
82.5°	34.4	33.4	34.4	34.4	34.4	35.6	37.7	38.8	41.0	42.6	22.1
85°	21.5	21.5	21.5	22.1	21.5	22.6	23.1	24.3	24.3	23.1	13.5
87.5°	14.0	13.5	14.0	13.5	13.5	12.9	12.9	12.9	12.4	11.9	7.5
90°	12.7	12.7	12.7	12.7	12.7	16.9	22.6	25.4	21.8	14.7	9.3
92.5°	50.8	40.7	50.8	60.9	63.4	89.9	125.3	142.9	125.5	90.7	64.5
95°	177.2	146.6	177.2	207.8	215.4	282.9	372.8	417.8	352.8	223.0	125.6
97.5°	424.5	366.4	424.5	482.8	497.3	539.9	596.8	625.2	517.0	300.4	138.0
100°	611.7	542.4	611.7	681.0	698.4	695.2	691.1	689.1	568.9	328.6	148.3
102.5°	795.9	736.5	795.9	855.2	870.1	815.8	743.3	707.1	585.2	341.5	158.7
105°	1030.6	998.7	1030.6	1062.5	1070.5	948.7	786.3	705.1	587.1	351.1	174.0
107.5°	1184.3	1192.1	1184.3	1176.6	1174.7	1004.8	778.3	665.0	560.9	352.8	196.7
110°	1243.0	1276.2	1243.0	1209.7	1201.4	1011.5	758.2	631.6	537.8	350.1	209.4



TEST NUMBER: P935050

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1248.2	1299.3	1248.2	1197.1	1184.3	989.9	730.8	601.2	517.5	350.3	224.8
115°	1215.1	1285.9	1215.1	1144.3	1126.6	939.3	689.7	564.8	494.4	353.5	247.8
117.5°	1144.9	1223.5	1144.9	1066.4	1046.8	877.8	652.4	539.8	479.9	360.1	270.2
120°	1088.4	1164.7	1088.4	1012.1	993.0	838.6	632.7	529.7	475.0	365.4	283.2
122.5°	1033.3	1108.5	1033.3	958.0	939.2	800.1	614.7	522.0	472.4	373.1	298.6
125°	954.7	1024.1	954.7	885.4	868.0	749.9	592.5	513.7	470.2	383.4	318.3
127.5°	884.1	942.6	884.1	825.6	810.9	709.5	574.3	506.7	469.0	393.8	337.3
130°	842.4	896.5	842.4	788.4	774.9	684.6	564.3	504.0	469.8	401.3	350.0
132.5°	804.6	853.0	804.6	756.3	744.1	663.3	555.5	501.6	470.2	407.4	360.4
135°	752.8	794.6	752.8	711.1	700.7	633.0	542.8	497.7	469.8	414.2	372.4
137.5°	711.4	745.5	711.4	677.2	668.7	611.4	535.1	497.0	472.7	424.1	387.8
140°	682.9	714.8	682.9	650.9	643.0	593.5	527.6	494.6	473.2	430.3	398.1
142.5°	659.3	686.7	659.3	631.8	624.9	581.5	523.6	494.6	474.9	435.5	405.8
145°	623.9	644.6	623.9	603.1	597.8	562.3	515.0	491.4	475.0	442.1	417.5
147.5°	596.7	613.9	596.7	579.5	575.2	547.2	510.0	491.4	478.2	451.9	432.2
150°	579.5	593.5	579.5	565.6	562.1	538.5	507.1	491.4	480.0	457.1	439.9
152.5°	564.9	575.5	564.9	554.4	551.7	531.6	504.8	491.4	481.0	460.4	444.9
155°	548.1	555.1	548.1	541.1	539.4	523.4	502.0	491.4	483.5	467.7	455.9
157.5°	534.9	539.8	534.9	529.9	528.7	516.2	499.6	491.4	485.9	475.1	466.9
160°	526.9	529.7	526.9	524.1	523.4	512.7	498.5	491.4	487.0	478.4	471.9
162.5°	521.7	524.4	521.7	519.0	518.3	509.3	497.4	491.4	488.2	482.0	477.3
165°	514.2	517.1	514.2	511.4	510.7	504.3	495.7	491.4	489.9	487.1	484.9
167.5°	508.8	510.0	508.8	507.7	507.3	503.1	497.5	494.6	493.4	491.1	489.3
170°	507.3	507.3	507.3	507.3	507.3	503.1	497.5	494.6	494.6	494.4	494.3
172.5°	503.4	502.4	503.4	504.4	504.7	501.3	496.9	494.6	494.6	494.6	494.6
175°	501.0	501.0	501.0	501.0	501.0	498.9	496.1	494.6	495.3	496.7	497.7
177.5°	498.9	497.7	498.9	500.0	500.3	498.7	496.4	495.3	495.9	496.9	497.7
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935050

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	577.3	574.1	574.1	568.7	566.5	564.9	562.3	554.2	552.0	549.8	553.1
5°	582.2	576.2	571.9	562.3	554.2	550.9	540.7	521.3	508.4	498.7	493.3
7.5°	583.2	575.7	567.6	552.5	533.1	524.5	493.3	457.8	448.1	439.5	434.0
10°	582.2	573.5	562.3	539.6	493.8	478.7	447.5	424.4	418.4	416.8	418.4
12.5°	578.4	570.3	554.7	517.0	452.9	442.7	424.4	410.9	409.9	412.5	427.0
15°	571.9	564.3	546.0	486.9	430.3	422.8	409.9	405.0	410.9	429.8	473.4
17.5°	565.5	556.9	534.2	457.2	413.1	407.7	398.5	408.2	441.6	466.9	481.5
20°	556.9	546.6	520.7	435.7	400.7	395.8	391.5	435.1	460.4	469.6	477.7
22.5°	546.6	535.8	502.4	420.6	387.8	384.0	386.6	450.2	460.4	466.9	473.9
25°	533.1	524.0	480.9	408.7	377.5	373.2	383.4	448.6	454.5	456.1	470.2
27.5°	520.7	508.9	458.3	398.0	365.1	363.5	386.2	441.6	445.9	447.5	462.6
30°	505.6	487.9	433.0	386.6	352.2	351.6	386.6	433.0	431.9	436.2	451.3
32.5°	490.1	456.7	404.5	372.7	339.8	339.3	382.9	420.0	419.0	424.9	436.2
35°	475.5	432.4	365.7	356.5	324.2	324.7	373.7	405.0	405.5	410.9	417.9
37.5°	460.4	411.5	323.1	338.7	309.2	309.2	361.4	391.0	389.9	391.5	401.2
40°	442.7	378.6	285.4	315.6	295.1	293.5	346.3	375.9	372.1	371.6	385.0
42.5°	423.8	342.5	257.4	284.9	279.0	276.8	327.9	357.6	350.6	352.2	369.5
45°	403.3	332.8	235.8	240.7	262.3	260.7	308.0	336.6	331.7	336.1	353.8
47.5°	382.9	313.4	228.9	199.8	244.5	244.0	285.9	316.1	313.4	317.7	336.6
50°	354.9	291.9	228.4	171.3	224.6	226.7	259.6	296.2	296.2	300.0	319.9
52.5°	318.8	265.5	207.3	155.1	201.4	207.9	236.4	279.0	280.0	283.8	301.6
55°	285.9	238.0	192.2	142.7	173.9	188.0	213.8	261.2	263.3	267.1	283.3
57.5°	255.8	198.2	189.0	128.2	148.6	162.1	193.8	244.0	245.0	248.3	263.9
60°	223.5	143.3	173.4	112.6	126.6	136.8	175.5	223.5	227.2	229.4	242.9
62.5°	186.9	103.9	157.2	101.8	115.8	118.0	160.5	204.1	208.9	210.5	218.7
65°	133.1	87.2	133.5	92.7	104.5	105.0	144.3	184.2	188.5	191.2	197.1
67.5°	89.9	71.1	101.8	84.0	95.9	96.4	128.7	161.0	166.9	169.1	172.9
70°	62.5	47.4	75.4	74.8	86.2	87.2	112.0	140.0	145.4	147.0	149.2
72.5°	45.8	38.2	62.5	67.3	76.0	77.0	94.8	116.4	121.7	123.3	124.4
75°	35.0	40.4	50.6	58.7	64.6	65.1	77.6	94.8	98.5	99.7	100.1
77.5°	28.0	37.7	37.2	47.4	52.8	51.7	60.9	73.2	76.4	76.4	76.4
80°	21.0	29.6	28.0	34.0	38.8	37.7	43.6	52.3	53.3	54.4	53.9
82.5°	15.6	18.9	18.9	21.5	25.9	24.8	29.1	34.0	34.0	34.0	35.0
85°	9.7	10.8	8.6	11.3	14.5	14.0	16.1	18.3	18.9	18.9	17.7
87.5°	5.9	4.8	2.7	4.3	6.4	6.4	7.5	8.1	7.5	7.5	7.5
90°	8.7	6.0	3.4	6.0	8.7	9.3	14.7	21.8	25.4	22.6	16.9
92.5°	58.8	36.1	13.3	36.1	58.8	64.5	90.7	125.5	142.9	125.3	89.9
95°	115.2	73.6	32.0	73.6	115.2	125.6	223.0	352.8	417.8	372.8	282.9
97.5°	128.8	92.1	55.4	92.1	128.8	138.0	300.4	517.0	625.2	596.8	539.9
100°	140.0	106.7	73.5	106.7	140.0	148.3	328.6	568.9	689.1	691.1	695.2
102.5°	150.9	119.9	88.8	119.9	150.9	158.7	341.5	585.2	707.1	743.3	815.8
105°	167.4	141.2	114.9	141.2	167.4	174.0	351.1	587.1	705.1	786.3	948.7
107.5°	190.6	166.1	141.6	166.1	190.6	196.7	352.8	560.9	665.0	778.3	1004.8
110°	203.9	181.8	159.6	181.8	203.9	209.4	350.1	537.8	631.6	758.2	1011.5



TEST NUMBER: P935050

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	219.5	198.4	177.4	198.4	219.5	224.8	350.3	517.5	601.2	730.8	989.9
115°	242.9	223.5	204.0	223.5	242.9	247.8	353.5	494.4	564.8	689.7	939.3
117.5°	265.8	248.1	230.5	248.1	265.8	270.2	360.1	479.9	539.8	652.4	877.8
120°	279.0	262.4	245.8	262.4	279.0	283.2	365.4	475.0	529.7	632.7	838.6
122.5°	294.5	277.7	260.9	277.7	294.5	298.6	373.1	472.4	522.0	614.7	800.1
125°	314.5	299.2	283.9	299.2	314.5	318.3	383.4	470.2	513.7	592.5	749.9
127.5°	333.5	318.0	302.6	318.0	333.5	337.3	393.8	469.0	506.7	574.3	709.5
130°	345.9	329.2	312.6	329.2	345.9	350.0	401.3	469.8	504.0	564.3	684.6
132.5°	356.2	339.6	323.0	339.6	356.2	360.4	407.4	470.2	501.6	555.5	663.3
135°	368.7	353.5	338.4	353.5	368.7	372.4	414.2	469.8	497.7	542.8	633.0
137.5°	384.0	369.1	354.0	369.1	384.0	387.8	424.1	472.7	497.0	535.1	611.4
140°	394.7	380.9	367.1	380.9	394.7	398.1	430.3	473.2	494.6	527.6	593.5
142.5°	402.6	389.9	377.1	389.9	402.6	405.8	435.5	474.9	494.6	523.6	581.5
145°	414.7	403.6	392.4	403.6	414.7	417.5	442.1	475.0	491.4	515.0	562.3
147.5°	429.4	418.7	407.8	418.7	429.4	432.2	451.9	478.2	491.4	510.0	547.2
150°	437.4	427.6	417.8	427.6	437.4	439.9	457.1	480.0	491.4	507.1	538.5
152.5°	443.0	435.5	428.2	435.5	443.0	444.9	460.4	481.0	491.4	504.8	531.6
155°	454.6	449.0	443.6	449.0	454.6	455.9	467.7	483.5	491.4	502.0	523.4
157.5°	465.6	460.3	454.9	460.3	465.6	466.9	475.1	485.9	491.4	499.6	516.2
160°	470.9	466.8	462.6	466.8	470.9	471.9	478.4	487.0	491.4	498.5	512.7
162.5°	476.5	473.4	470.2	473.4	476.5	477.3	482.0	488.2	491.4	497.4	509.3
165°	484.2	481.4	478.6	481.4	484.2	484.9	487.1	489.9	491.4	495.7	504.3
167.5°	489.0	487.7	486.3	487.7	489.0	489.3	491.1	493.4	494.6	497.5	503.1
170°	494.0	492.6	491.4	492.6	494.0	494.3	494.4	494.6	494.6	497.5	503.1
172.5°	494.6	494.3	494.0	494.3	494.6	494.6	494.6	494.6	494.6	496.9	501.3
175°	497.7	497.7	497.7	497.7	497.7	497.7	496.7	495.3	494.6	496.1	498.9
177.5°	497.7	497.7	497.7	497.7	497.7	497.7	496.9	495.9	495.3	496.4	498.7
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935050
 CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2	569.2
2.5°	549.3	547.7	549.8	544.0	549.8	547.7	549.3	553.1	549.8	552.0	554.2
5°	482.0	479.3	470.7	463.7	470.7	479.3	482.0	493.3	498.7	508.4	521.3
7.5°	430.8	428.6	426.6	422.2	426.6	428.6	430.8	434.0	439.5	448.1	457.8
10°	419.5	420.0	423.3	422.8	423.3	420.0	419.5	418.4	416.8	418.4	424.4
12.5°	448.6	453.5	471.2	470.2	471.2	453.5	448.6	427.0	412.5	409.9	410.9
15°	482.0	483.6	487.3	487.9	487.3	483.6	482.0	473.4	429.8	410.9	405.0
17.5°	485.3	485.7	488.5	488.5	488.5	485.7	485.3	481.5	466.9	441.6	408.2
20°	482.5	483.6	489.0	490.1	489.0	483.6	482.5	477.7	469.6	460.4	435.1
22.5°	481.5	483.6	487.9	487.3	487.9	483.6	481.5	473.9	466.9	460.4	450.2
25°	476.1	476.1	476.6	477.1	476.6	476.1	476.1	470.2	456.1	454.5	448.6
27.5°	464.8	465.8	469.0	468.6	469.0	465.8	464.8	462.6	447.5	445.9	441.6
30°	454.5	453.5	450.7	448.6	450.7	453.5	454.5	451.3	436.2	431.9	433.0
32.5°	437.3	434.6	431.9	430.3	431.9	434.6	437.3	436.2	424.9	419.0	420.0
35°	416.8	417.4	416.8	415.2	416.8	417.4	416.8	417.9	410.9	405.5	405.0
37.5°	402.3	403.3	402.8	400.7	402.8	403.3	402.3	401.2	391.5	389.9	391.0
40°	387.2	387.8	387.2	385.6	387.2	387.8	387.2	385.0	371.6	372.1	375.9
42.5°	372.7	372.1	370.5	369.5	370.5	372.1	372.7	369.5	352.2	350.6	357.6
45°	356.0	356.5	353.2	351.6	353.2	356.5	356.0	353.8	336.1	331.7	336.6
47.5°	339.3	339.3	336.6	334.9	336.6	339.3	339.3	336.6	317.7	313.4	316.1
50°	321.5	321.0	317.2	316.6	317.2	321.0	321.5	319.9	300.0	296.2	296.2
52.5°	301.0	301.0	301.6	302.7	301.6	301.0	301.0	301.6	283.8	280.0	279.0
55°	283.3	283.8	287.6	288.7	287.6	283.8	283.3	283.3	267.1	263.3	261.2
57.5°	265.0	265.0	267.6	267.6	267.6	265.0	265.0	263.9	248.3	245.0	244.0
60°	244.0	245.0	247.2	246.7	247.2	245.0	244.0	242.9	229.4	227.2	223.5
62.5°	221.9	223.0	223.5	222.4	223.5	223.0	221.9	218.7	210.5	208.9	204.1
65°	198.7	199.8	200.3	199.2	200.3	199.8	198.7	197.1	191.2	188.5	184.2
67.5°	175.1	174.5	173.9	176.1	173.9	174.5	175.1	172.9	169.1	166.9	161.0
70°	150.8	150.8	150.2	151.4	150.2	150.8	150.8	149.2	147.0	145.4	140.0
72.5°	124.9	124.4	126.6	124.9	126.6	124.4	124.9	124.4	123.3	121.7	116.4
75°	99.7	100.7	99.7	101.3	99.7	100.7	99.7	100.1	99.7	98.5	94.8
77.5°	76.0	77.0	76.0	76.0	76.0	77.0	76.0	76.4	76.4	76.4	73.2
80°	53.9	53.3	53.3	52.8	53.3	53.3	53.9	53.9	54.4	53.3	52.3
82.5°	34.4	34.0	34.0	35.0	34.0	34.0	34.4	35.0	34.0	34.0	34.0
85°	18.9	19.4	18.3	18.3	18.3	19.4	18.9	17.7	18.9	18.9	18.3
87.5°	7.0	6.4	6.4	6.4	6.4	6.4	7.0	7.5	7.5	7.5	8.1
90°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	16.9	22.6	25.4	21.8
92.5°	63.4	60.9	50.8	40.7	50.8	60.9	63.4	89.9	125.3	142.9	125.5
95°	215.4	207.8	177.2	146.6	177.2	207.8	215.4	282.9	372.8	417.8	352.8
97.5°	497.3	482.8	424.5	366.4	424.5	482.8	497.3	539.9	596.8	625.2	517.0
100°	698.4	681.0	611.7	542.4	611.7	681.0	698.4	695.2	691.1	689.1	568.9
102.5°	870.1	855.2	795.9	736.5	795.9	855.2	870.1	815.8	743.3	707.1	585.2
105°	1070.5	1062.5	1030.6	998.7	1030.6	1062.5	1070.5	948.7	786.3	705.1	587.1
107.5°	1174.7	1176.6	1184.3	1192.1	1184.3	1176.6	1174.7	1004.8	778.3	665.0	560.9
110°	1201.4	1209.7	1243.0	1276.2	1243.0	1209.7	1201.4	1011.5	758.2	631.6	537.8



TEST NUMBER: P935050

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1184.3	1197.1	1248.2	1299.3	1248.2	1197.1	1184.3	989.9	730.8	601.2	517.5
115°	1126.6	1144.3	1215.1	1285.9	1215.1	1144.3	1126.6	939.3	689.7	564.8	494.4
117.5°	1046.8	1066.4	1144.9	1223.5	1144.9	1066.4	1046.8	877.8	652.4	539.8	479.9
120°	993.0	1012.1	1088.4	1164.7	1088.4	1012.1	993.0	838.6	632.7	529.7	475.0
122.5°	939.2	958.0	1033.3	1108.5	1033.3	958.0	939.2	800.1	614.7	522.0	472.4
125°	868.0	885.4	954.7	1024.1	954.7	885.4	868.0	749.9	592.5	513.7	470.2
127.5°	810.9	825.6	884.1	942.6	884.1	825.6	810.9	709.5	574.3	506.7	469.0
130°	774.9	788.4	842.4	896.5	842.4	788.4	774.9	684.6	564.3	504.0	469.8
132.5°	744.1	756.3	804.6	853.0	804.6	756.3	744.1	663.3	555.5	501.6	470.2
135°	700.7	711.1	752.8	794.6	752.8	711.1	700.7	633.0	542.8	497.7	469.8
137.5°	668.7	677.2	711.4	745.5	711.4	677.2	668.7	611.4	535.1	497.0	472.7
140°	643.0	650.9	682.9	714.8	682.9	650.9	643.0	593.5	527.6	494.6	473.2
142.5°	624.9	631.8	659.3	686.7	659.3	631.8	624.9	581.5	523.6	494.6	474.9
145°	597.8	603.1	623.9	644.6	623.9	603.1	597.8	562.3	515.0	491.4	475.0
147.5°	575.2	579.5	596.7	613.9	596.7	579.5	575.2	547.2	510.0	491.4	478.2
150°	562.1	565.6	579.5	593.5	579.5	565.6	562.1	538.5	507.1	491.4	480.0
152.5°	551.7	554.4	564.9	575.5	564.9	554.4	551.7	531.6	504.8	491.4	481.0
155°	539.4	541.1	548.1	555.1	548.1	541.1	539.4	523.4	502.0	491.4	483.5
157.5°	528.7	529.9	534.9	539.8	534.9	529.9	528.7	516.2	499.6	491.4	485.9
160°	523.4	524.1	526.9	529.7	526.9	524.1	523.4	512.7	498.5	491.4	487.0
162.5°	518.3	519.0	521.7	524.4	521.7	519.0	518.3	509.3	497.4	491.4	488.2
165°	510.7	511.4	514.2	517.1	514.2	511.4	510.7	504.3	495.7	491.4	489.9
167.5°	507.3	507.7	508.8	510.0	508.8	507.7	507.3	503.1	497.5	494.6	493.4
170°	507.3	507.3	507.3	507.3	507.3	507.3	507.3	503.1	497.5	494.6	494.6
172.5°	504.7	504.4	503.4	502.4	503.4	504.4	504.7	501.3	496.9	494.6	494.6
175°	501.0	501.0	501.0	501.0	501.0	501.0	501.0	498.9	496.1	494.6	495.3
177.5°	500.3	500.0	498.9	497.7	498.9	500.0	500.3	498.7	496.4	495.3	495.9
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935050

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	569.2	569.2	569.2	569.2	569.2
2.5°	562.3	564.9	566.5	568.7	574.1
5°	540.7	550.9	554.2	562.3	571.9
7.5°	493.3	524.5	533.1	552.5	567.6
10°	447.5	478.7	493.8	539.6	562.3
12.5°	424.4	442.7	452.9	517.0	554.7
15°	409.9	422.8	430.3	486.9	546.0
17.5°	398.5	407.7	413.1	457.2	534.2
20°	391.5	395.8	400.7	435.7	520.7
22.5°	386.6	384.0	387.8	420.6	502.4
25°	383.4	373.2	377.5	408.7	480.9
27.5°	386.2	363.5	365.1	398.0	458.3
30°	386.6	351.6	352.2	386.6	433.0
32.5°	382.9	339.3	339.8	372.7	404.5
35°	373.7	324.7	324.2	356.5	365.7
37.5°	361.4	309.2	309.2	338.7	323.1
40°	346.3	293.5	295.1	315.6	285.4
42.5°	327.9	276.8	279.0	284.9	257.4
45°	308.0	260.7	262.3	240.7	235.8
47.5°	285.9	244.0	244.5	199.8	228.9
50°	259.6	226.7	224.6	171.3	228.4
52.5°	236.4	207.9	201.4	155.1	207.3
55°	213.8	188.0	173.9	142.7	192.2
57.5°	193.8	162.1	148.6	128.2	189.0
60°	175.5	136.8	126.6	112.6	173.4
62.5°	160.5	118.0	115.8	101.8	157.2
65°	144.3	105.0	104.5	92.7	133.5
67.5°	128.7	96.4	95.9	84.0	101.8
70°	112.0	87.2	86.2	74.8	75.4
72.5°	94.8	77.0	76.0	67.3	62.5
75°	77.6	65.1	64.6	58.7	50.6
77.5°	60.9	51.7	52.8	47.4	37.2
80°	43.6	37.7	38.8	34.0	28.0
82.5°	29.1	24.8	25.9	21.5	18.9
85°	16.1	14.0	14.5	11.3	8.6
87.5°	7.5	6.4	6.4	4.3	2.7
90°	14.7	9.3	8.7	6.0	3.4
92.5°	90.7	64.5	58.8	36.1	13.3
95°	223.0	125.6	115.2	73.6	32.0
97.5°	300.4	138.0	128.8	92.1	55.4
100°	328.6	148.3	140.0	106.7	73.5
102.5°	341.5	158.7	150.9	119.9	88.8
105°	351.1	174.0	167.4	141.2	114.9
107.5°	352.8	196.7	190.6	166.1	141.6
110°	350.1	209.4	203.9	181.8	159.6



TEST NUMBER: P935050

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	350.3	224.8	219.5	198.4	177.4
115°	353.5	247.8	242.9	223.5	204.0
117.5°	360.1	270.2	265.8	248.1	230.5
120°	365.4	283.2	279.0	262.4	245.8
122.5°	373.1	298.6	294.5	277.7	260.9
125°	383.4	318.3	314.5	299.2	283.9
127.5°	393.8	337.3	333.5	318.0	302.6
130°	401.3	350.0	345.9	329.2	312.6
132.5°	407.4	360.4	356.2	339.6	323.0
135°	414.2	372.4	368.7	353.5	338.4
137.5°	424.1	387.8	384.0	369.1	354.0
140°	430.3	398.1	394.7	380.9	367.1
142.5°	435.5	405.8	402.6	389.9	377.1
145°	442.1	417.5	414.7	403.6	392.4
147.5°	451.9	432.2	429.4	418.7	407.8
150°	457.1	439.9	437.4	427.6	417.8
152.5°	460.4	444.9	443.0	435.5	428.2
155°	467.7	455.9	454.6	449.0	443.6
157.5°	475.1	466.9	465.6	460.3	454.9
160°	478.4	471.9	470.9	466.8	462.6
162.5°	482.0	477.3	476.5	473.4	470.2
165°	487.1	484.9	484.2	481.4	478.6
167.5°	491.1	489.3	489.0	487.7	486.3
170°	494.4	494.3	494.0	492.6	491.4
172.5°	494.6	494.6	494.6	494.3	494.0
175°	496.7	497.7	497.7	497.7	497.7
177.5°	496.9	497.7	497.7	497.7	497.7
180°	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935050
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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	8.55	9.27	9.65	10.37	11.88	11.35	12.07	12.45	13.16	14.68
	3H	9.02	9.66	10.13	10.77	12.30	12.68	13.32	13.79	14.42	15.95
	4H	9.20	9.81	10.32	10.92	12.45	13.11	13.71	14.23	14.82	16.36
	6H	9.31	9.87	10.44	10.98	12.53	13.37	13.93	14.50	15.05	16.59
	8H	9.31	9.84	10.44	10.97	12.51	13.44	13.97	14.57	15.10	16.64
	12H	9.28	9.78	10.41	10.90	12.47	13.47	13.98	14.61	15.10	16.66
4H	2H	9.56	10.17	10.69	11.27	12.81	11.74	12.35	12.87	13.46	15.00
	3H	10.57	11.08	11.71	12.21	13.76	13.23	13.73	14.36	14.87	16.42
	4H	10.84	11.31	11.98	12.43	14.00	13.74	14.21	14.88	15.33	16.90
	6H	10.96	11.36	12.10	12.50	14.06	14.09	14.49	15.23	15.63	17.19
	8H	10.96	11.33	12.10	12.47	14.05	14.19	14.56	15.33	15.70	17.27
	12H	10.92	11.26	12.08	12.41	13.99	14.23	14.57	15.39	15.72	17.30
8H	4H	11.28	11.65	12.42	12.79	14.37	13.85	14.23	15.00	15.36	16.94
	6H	11.53	11.84	12.70	13.02	14.59	14.28	14.58	15.44	15.76	17.34
	8H	11.58	11.84	12.75	13.00	14.60	14.42	14.69	15.59	15.85	17.44
	12H	11.55	11.79	12.73	12.95	14.57	14.51	14.74	15.68	15.90	17.53
12H	4H	11.28	11.61	12.44	12.76	14.35	13.81	14.15	14.97	15.30	16.88
	6H	11.59	11.86	12.76	13.02	14.61	14.27	14.54	15.44	15.70	17.29
	8H	11.65	11.89	12.83	13.04	14.67	14.42	14.66	15.59	15.81	17.44