

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: P935450

Luminaire Tested: SQ4-FA-125U-050D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935450
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

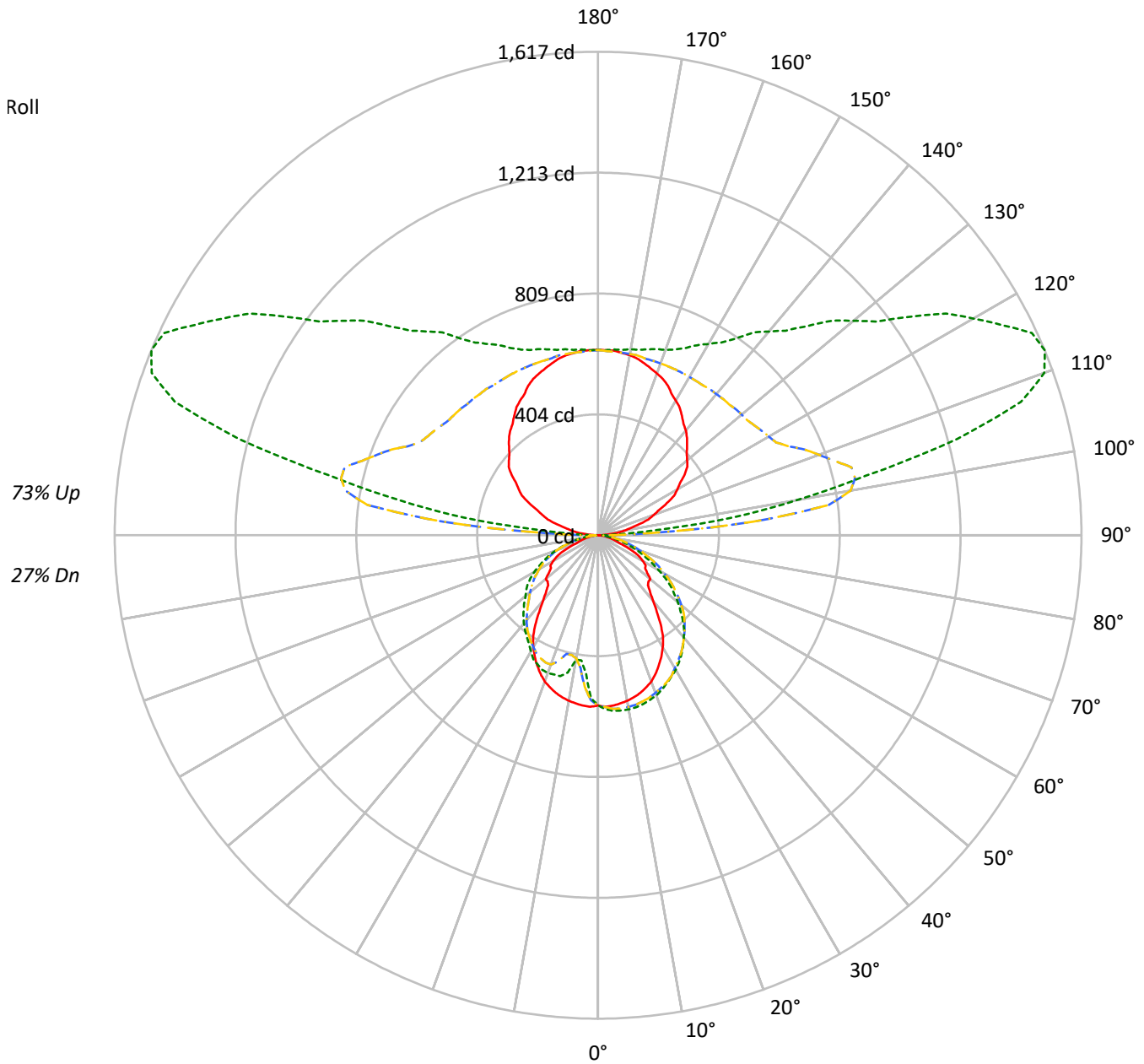
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5494.2 lumens
Efficiency: N/A
Efficacy: 115.4 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: Semi-Indirect

Input Watts (W): 47.6
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: P935450
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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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29				23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14				10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12				9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11				8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10				7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9				7

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	0.9
10°-20°	145.9	2.7
20°-30°	225.5	4.1
30°-40°	269.2	4.9
40°-50°	270.8	4.9
50°-60°	235.6	4.3
60°-70°	167.1	3.0
70°-80°	88.4	1.6
80°-90°	24.4	0.4
90°-100°	302.0	5.5
100°-110°	793.9	14.5
110°-120°	823.2	15.0
120°-130°	660.3	12.0
130°-140°	518.1	9.4
140°-150°	397.7	7.2
150°-160°	286.4	5.2
160°-170°	175.2	3.2
170°-180°	59.2	1.1
0°-30°	422.8	7.7
0°-40°	692.0	12.6
0°-60°	1198.4	21.8
0°-90°	1478.3	26.9
90°-120°	1919.0	34.9
90°-150°	3495.1	63.6
90°-180°	4016.0	73.1
0°-180°	5494.2	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°	4	16	4	16	4	4
95°	40	182	40	182	40	44
105°	143	1243	143	1243	143	152
115°	254	1601	254	1601	254	251
125°	353	1275	353	1275	353	314
135°	421	989	421	989	421	326
145°	488	802	488	802	488	306
155°	552	691	552	691	552	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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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°	4.2	7.5	10.8	11.6	18.3	27.1	31.6	28.0	21.0	15.8	15.8
92.5°	16.6	44.9	73.2	80.2	112.8	156.3	177.9	155.9	112.0	79.0	75.9
95°	39.9	91.6	143.4	156.3	277.6	439.2	520.1	464.1	352.2	268.2	258.6
97.5°	69.0	114.6	160.3	171.7	373.9	643.4	778.3	742.9	672.1	619.0	601.0
100°	91.5	132.9	174.3	184.6	409.0	708.1	857.7	860.3	865.5	869.3	847.7
102.5°	110.6	149.2	187.8	197.5	425.0	728.5	880.2	925.3	1015.5	1083.1	1064.6
105°	143.0	175.8	208.5	216.6	437.0	730.8	877.7	978.8	1180.9	1332.5	1322.5
107.5°	176.3	206.8	237.3	244.9	439.2	698.3	827.8	968.8	1250.8	1462.2	1464.6
110°	198.7	226.3	253.7	260.7	435.9	669.5	786.2	943.8	1259.1	1495.5	1505.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.7	247.0	273.2	279.8	435.9	644.2	748.4	909.7	1232.4	1474.3	1490.2
115°	254.0	278.2	302.5	308.5	440.0	615.3	703.0	858.4	1169.2	1402.4	1424.4
117.5°	286.9	308.9	330.9	336.4	448.2	597.4	671.9	812.1	1092.6	1302.9	1327.4
120°	306.0	326.7	347.5	352.6	454.9	591.2	659.4	787.6	1043.8	1236.1	1259.8
122.5°	324.7	345.6	366.5	371.7	464.5	588.0	649.9	765.3	996.0	1169.1	1192.5
125°	353.4	372.4	391.5	396.2	477.3	585.4	639.4	737.5	933.5	1080.5	1102.1
127.5°	376.7	395.9	415.1	419.9	490.2	583.9	630.7	714.8	883.2	1009.5	1027.7
130°	389.1	409.9	430.6	435.7	499.6	584.8	627.4	702.3	852.1	964.6	981.3
132.5°	402.1	422.8	443.5	448.6	507.3	585.4	624.5	691.5	825.7	926.3	941.4
135°	421.2	440.0	458.8	463.6	515.5	584.8	619.5	675.7	788.1	872.3	885.3
137.5°	440.7	459.3	478.0	482.7	528.0	588.4	618.6	666.1	761.1	832.3	842.9
140°	456.9	474.1	491.3	495.6	535.7	589.1	615.7	656.8	738.8	800.4	810.3
142.5°	469.4	485.3	501.2	505.2	542.0	591.2	615.7	651.8	723.8	777.9	786.4
145°	488.5	502.4	516.2	519.7	550.3	591.2	611.6	641.0	700.0	744.2	750.7
147.5°	507.7	521.1	534.6	538.0	562.5	595.2	611.6	634.8	681.2	716.0	721.3
150°	520.1	532.3	544.5	547.6	568.9	597.4	611.6	631.2	670.3	699.7	704.1
152.5°	533.0	542.3	551.5	553.8	573.1	598.7	611.6	628.3	661.8	686.8	690.1
155°	552.1	559.0	565.8	567.5	582.2	601.8	611.6	624.9	651.5	671.5	673.6
157.5°	566.3	572.9	579.5	581.2	591.3	604.8	611.6	621.9	642.6	658.1	659.7
160°	575.8	581.0	586.2	587.5	595.5	606.2	611.6	620.4	638.1	651.5	652.4
162.5°	585.4	589.2	593.2	594.1	599.9	607.7	611.6	619.0	634.0	645.3	646.1
165°	595.7	599.3	602.8	603.7	606.3	609.8	611.6	616.9	627.6	635.7	636.5
167.5°	605.4	607.0	608.7	609.1	611.3	614.3	615.7	619.3	626.3	631.6	632.0
170°	611.6	613.3	614.9	615.3	615.5	615.7	615.7	619.3	626.3	631.6	631.6
172.5°	614.9	615.3	615.7	615.7	615.7	615.7	615.7	618.5	624.0	628.2	627.9
175°	619.5	619.5	619.5	619.5	618.2	616.5	615.7	617.5	621.0	623.6	623.6
177.5°	619.5	619.5	619.5	619.5	618.6	617.2	616.5	617.9	620.7	622.8	622.4
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



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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°	15.8	15.8	15.8	15.8	15.8	21.0	28.0	31.6	27.1	18.3	11.6
92.5°	63.3	50.7	63.3	75.9	79.0	112.0	155.9	177.9	156.3	112.8	80.2
95°	220.6	182.5	220.6	258.6	268.2	352.2	464.1	520.1	439.2	277.6	156.3
97.5°	528.5	456.1	528.5	601.0	619.0	672.1	742.9	778.3	643.4	373.9	171.7
100°	761.5	675.2	761.5	847.7	869.3	865.5	860.3	857.7	708.1	409.0	184.6
102.5°	990.7	916.8	990.7	1064.6	1083.1	1015.5	925.3	880.2	728.5	425.0	197.5
105°	1282.9	1243.1	1282.9	1322.5	1332.5	1180.9	978.8	877.7	730.8	437.0	216.6
107.5°	1474.2	1483.9	1474.2	1464.6	1462.2	1250.8	968.8	827.8	698.3	439.2	244.9
110°	1547.2	1588.6	1547.2	1505.9	1495.5	1259.1	943.8	786.2	669.5	435.9	260.7



TEST NUMBER: P935450

CATALOG NUMBER: SQ4-FA-125U-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°	1553.7	1617.3	1553.7	1490.2	1474.3	1232.4	909.7	748.4	644.2	435.9	279.8
115°	1512.5	1600.7	1512.5	1424.4	1402.4	1169.2	858.4	703.0	615.3	440.0	308.5
117.5°	1425.2	1522.9	1425.2	1327.4	1302.9	1092.6	812.1	671.9	597.4	448.2	336.4
120°	1354.7	1449.7	1354.7	1259.8	1236.1	1043.8	787.6	659.4	591.2	454.9	352.6
122.5°	1286.2	1379.9	1286.2	1192.5	1169.1	996.0	765.3	649.9	588.0	464.5	371.7
125°	1188.4	1274.7	1188.4	1102.1	1080.5	933.5	737.5	639.4	585.4	477.3	396.2
127.5°	1100.4	1173.3	1100.4	1027.7	1009.5	883.2	714.8	630.7	583.9	490.2	419.9
130°	1048.6	1115.9	1048.6	981.3	964.6	852.1	702.3	627.4	584.8	499.6	435.7
132.5°	1001.6	1061.8	1001.6	941.4	926.3	825.7	691.5	624.5	585.4	507.3	448.6
135°	937.2	989.1	937.2	885.3	872.3	788.1	675.7	619.5	584.8	515.5	463.6
137.5°	885.5	927.9	885.5	842.9	832.3	761.1	666.1	618.6	588.4	528.0	482.7
140°	850.0	889.7	850.0	810.3	800.4	738.8	656.8	615.7	589.1	535.7	495.6
142.5°	820.6	854.8	820.6	786.4	777.9	723.8	651.8	615.7	591.2	542.0	505.2
145°	776.6	802.4	776.6	750.7	744.2	700.0	641.0	611.6	591.2	550.3	519.7
147.5°	742.7	764.1	742.7	721.3	716.0	681.2	634.8	611.6	595.2	562.5	538.0
150°	721.5	738.8	721.5	704.1	699.7	670.3	631.2	611.6	597.4	568.9	547.6
152.5°	703.2	716.4	703.2	690.1	686.8	661.8	628.3	611.6	598.7	573.1	553.8
155°	682.3	691.0	682.3	673.6	671.5	651.5	624.9	611.6	601.8	582.2	567.5
157.5°	665.8	671.9	665.8	659.7	658.1	642.6	621.9	611.6	604.8	591.3	581.2
160°	655.9	659.4	655.9	652.4	651.5	638.1	620.4	611.6	606.2	595.5	587.5
162.5°	649.5	652.8	649.5	646.1	645.3	634.0	619.0	611.6	607.7	599.9	594.1
165°	640.1	643.6	640.1	636.5	635.7	627.6	616.9	611.6	609.8	606.3	603.7
167.5°	633.4	634.9	633.4	632.0	631.6	626.3	619.3	615.7	614.3	611.3	609.1
170°	631.6	631.6	631.6	631.6	631.6	626.3	619.3	615.7	615.7	615.5	615.3
172.5°	626.6	625.3	626.6	627.9	628.2	624.0	618.5	615.7	615.7	615.7	615.7
175°	623.6	623.6	623.6	623.6	623.6	621.0	617.5	615.7	616.5	618.2	619.5
177.5°	621.0	619.5	621.0	622.4	622.8	620.7	617.9	616.5	617.2	618.6	619.5
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



TEST NUMBER: P935450

CATALOG NUMBER: SQ4-FA-125U-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°	10.8	7.5	4.2	7.5	10.8	11.6	18.3	27.1	31.6	28.0	21.0
92.5°	73.2	44.9	16.6	44.9	73.2	80.2	112.8	156.3	177.9	155.9	112.0
95°	143.4	91.6	39.9	91.6	143.4	156.3	277.6	439.2	520.1	464.1	352.2
97.5°	160.3	114.6	69.0	114.6	160.3	171.7	373.9	643.4	778.3	742.9	672.1
100°	174.3	132.9	91.5	132.9	174.3	184.6	409.0	708.1	857.7	860.3	865.5
102.5°	187.8	149.2	110.6	149.2	187.8	197.5	425.0	728.5	880.2	925.3	1015.5
105°	208.5	175.8	143.0	175.8	208.5	216.6	437.0	730.8	877.7	978.8	1180.9
107.5°	237.3	206.8	176.3	206.8	237.3	244.9	439.2	698.3	827.8	968.8	1250.8
110°	253.7	226.3	198.7	226.3	253.7	260.7	435.9	669.5	786.2	943.8	1259.1



TEST NUMBER: P935450

CATALOG NUMBER: SQ4-FA-125U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	273.2	247.0	220.7	247.0	273.2	279.8	435.9	644.2	748.4	909.7	1232.4
115°	302.5	278.2	254.0	278.2	302.5	308.5	440.0	615.3	703.0	858.4	1169.2
117.5°	330.9	308.9	286.9	308.9	330.9	336.4	448.2	597.4	671.9	812.1	1092.6
120°	347.5	326.7	306.0	326.7	347.5	352.6	454.9	591.2	659.4	787.6	1043.8
122.5°	366.5	345.6	324.7	345.6	366.5	371.7	464.5	588.0	649.9	765.3	996.0
125°	391.5	372.4	353.4	372.4	391.5	396.2	477.3	585.4	639.4	737.5	933.5
127.5°	415.1	395.9	376.7	395.9	415.1	419.9	490.2	583.9	630.7	714.8	883.2
130°	430.6	409.9	389.1	409.9	430.6	435.7	499.6	584.8	627.4	702.3	852.1
132.5°	443.5	422.8	402.1	422.8	443.5	448.6	507.3	585.4	624.5	691.5	825.7
135°	458.8	440.0	421.2	440.0	458.8	463.6	515.5	584.8	619.5	675.7	788.1
137.5°	478.0	459.3	440.7	459.3	478.0	482.7	528.0	588.4	618.6	666.1	761.1
140°	491.3	474.1	456.9	474.1	491.3	495.6	535.7	589.1	615.7	656.8	738.8
142.5°	501.2	485.3	469.4	485.3	501.2	505.2	542.0	591.2	615.7	651.8	723.8
145°	516.2	502.4	488.5	502.4	516.2	519.7	550.3	591.2	611.6	641.0	700.0
147.5°	534.6	521.1	507.7	521.1	534.6	538.0	562.5	595.2	611.6	634.8	681.2
150°	544.5	532.3	520.1	532.3	544.5	547.6	568.9	597.4	611.6	631.2	670.3
152.5°	551.5	542.3	533.0	542.3	551.5	553.8	573.1	598.7	611.6	628.3	661.8
155°	565.8	559.0	552.1	559.0	565.8	567.5	582.2	601.8	611.6	624.9	651.5
157.5°	579.5	572.9	566.3	572.9	579.5	581.2	591.3	604.8	611.6	621.9	642.6
160°	586.2	581.0	575.8	581.0	586.2	587.5	595.5	606.2	611.6	620.4	638.1
162.5°	593.2	589.2	585.4	589.2	593.2	594.1	599.9	607.7	611.6	619.0	634.0
165°	602.8	599.3	595.7	599.3	602.8	603.7	606.3	609.8	611.6	616.9	627.6
167.5°	608.7	607.0	605.4	607.0	608.7	609.1	611.3	614.3	615.7	619.3	626.3
170°	614.9	613.3	611.6	613.3	614.9	615.3	615.5	615.7	615.7	619.3	626.3
172.5°	615.7	615.3	614.9	615.3	615.7	615.7	615.7	615.7	615.7	618.5	624.0
175°	619.5	619.5	619.5	619.5	619.5	619.5	618.2	616.5	615.7	617.5	621.0
177.5°	619.5	619.5	619.5	619.5	619.5	619.5	618.6	617.2	616.5	617.9	620.7
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



TEST NUMBER: P935450
 CATALOG NUMBER: SQ4-FA-125U-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°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.0	28.0	31.6	27.1
92.5°	79.0	75.9	63.3	50.7	63.3	75.9	79.0	112.0	155.9	177.9	156.3
95°	268.2	258.6	220.6	182.5	220.6	258.6	268.2	352.2	464.1	520.1	439.2
97.5°	619.0	601.0	528.5	456.1	528.5	601.0	619.0	672.1	742.9	778.3	643.4
100°	869.3	847.7	761.5	675.2	761.5	847.7	869.3	865.5	860.3	857.7	708.1
102.5°	1083.1	1064.6	990.7	916.8	990.7	1064.6	1083.1	1015.5	925.3	880.2	728.5
105°	1332.5	1322.5	1282.9	1243.1	1282.9	1322.5	1332.5	1180.9	978.8	877.7	730.8
107.5°	1462.2	1464.6	1474.2	1483.9	1474.2	1464.6	1462.2	1250.8	968.8	827.8	698.3
110°	1495.5	1505.9	1547.2	1588.6	1547.2	1505.9	1495.5	1259.1	943.8	786.2	669.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1474.3	1490.2	1553.7	1617.3	1553.7	1490.2	1474.3	1232.4	909.7	748.4	644.2
115°	1402.4	1424.4	1512.5	1600.7	1512.5	1424.4	1402.4	1169.2	858.4	703.0	615.3
117.5°	1302.9	1327.4	1425.2	1522.9	1425.2	1327.4	1302.9	1092.6	812.1	671.9	597.4
120°	1236.1	1259.8	1354.7	1449.7	1354.7	1259.8	1236.1	1043.8	787.6	659.4	591.2
122.5°	1169.1	1192.5	1286.2	1379.9	1286.2	1192.5	1169.1	996.0	765.3	649.9	588.0
125°	1080.5	1102.1	1188.4	1274.7	1188.4	1102.1	1080.5	933.5	737.5	639.4	585.4
127.5°	1009.5	1027.7	1100.4	1173.3	1100.4	1027.7	1009.5	883.2	714.8	630.7	583.9
130°	964.6	981.3	1048.6	1115.9	1048.6	981.3	964.6	852.1	702.3	627.4	584.8
132.5°	926.3	941.4	1001.6	1061.8	1001.6	941.4	926.3	825.7	691.5	624.5	585.4
135°	872.3	885.3	937.2	989.1	937.2	885.3	872.3	788.1	675.7	619.5	584.8
137.5°	832.3	842.9	885.5	927.9	885.5	842.9	832.3	761.1	666.1	618.6	588.4
140°	800.4	810.3	850.0	889.7	850.0	810.3	800.4	738.8	656.8	615.7	589.1
142.5°	777.9	786.4	820.6	854.8	820.6	786.4	777.9	723.8	651.8	615.7	591.2
145°	744.2	750.7	776.6	802.4	776.6	750.7	744.2	700.0	641.0	611.6	591.2
147.5°	716.0	721.3	742.7	764.1	742.7	721.3	716.0	681.2	634.8	611.6	595.2
150°	699.7	704.1	721.5	738.8	721.5	704.1	699.7	670.3	631.2	611.6	597.4
152.5°	686.8	690.1	703.2	716.4	703.2	690.1	686.8	661.8	628.3	611.6	598.7
155°	671.5	673.6	682.3	691.0	682.3	673.6	671.5	651.5	624.9	611.6	601.8
157.5°	658.1	659.7	665.8	671.9	665.8	659.7	658.1	642.6	621.9	611.6	604.8
160°	651.5	652.4	655.9	659.4	655.9	652.4	651.5	638.1	620.4	611.6	606.2
162.5°	645.3	646.1	649.5	652.8	649.5	646.1	645.3	634.0	619.0	611.6	607.7
165°	635.7	636.5	640.1	643.6	640.1	636.5	635.7	627.6	616.9	611.6	609.8
167.5°	631.6	632.0	633.4	634.9	633.4	632.0	631.6	626.3	619.3	615.7	614.3
170°	631.6	631.6	631.6	631.6	631.6	631.6	631.6	626.3	619.3	615.7	615.7
172.5°	628.2	627.9	626.6	625.3	626.6	627.9	628.2	624.0	618.5	615.7	615.7
175°	623.6	623.6	623.6	623.6	623.6	623.6	623.6	621.0	617.5	615.7	616.5
177.5°	622.8	622.4	621.0	619.5	621.0	622.4	622.8	620.7	617.9	616.5	617.2
180°	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5	619.5



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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°	18.3	11.6	10.8	7.5	4.2
92.5°	112.8	80.2	73.2	44.9	16.6
95°	277.6	156.3	143.4	91.6	39.9
97.5°	373.9	171.7	160.3	114.6	69.0
100°	409.0	184.6	174.3	132.9	91.5
102.5°	425.0	197.5	187.8	149.2	110.6
105°	437.0	216.6	208.5	175.8	143.0
107.5°	439.2	244.9	237.3	206.8	176.3
110°	435.9	260.7	253.7	226.3	198.7



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CATALOG NUMBER: SQ4-FA-125U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	435.9	279.8	273.2	247.0	220.7
115°	440.0	308.5	302.5	278.2	254.0
117.5°	448.2	336.4	330.9	308.9	286.9
120°	454.9	352.6	347.5	326.7	306.0
122.5°	464.5	371.7	366.5	345.6	324.7
125°	477.3	396.2	391.5	372.4	353.4
127.5°	490.2	419.9	415.1	395.9	376.7
130°	499.6	435.7	430.6	409.9	389.1
132.5°	507.3	448.6	443.5	422.8	402.1
135°	515.5	463.6	458.8	440.0	421.2
137.5°	528.0	482.7	478.0	459.3	440.7
140°	535.7	495.6	491.3	474.1	456.9
142.5°	542.0	505.2	501.2	485.3	469.4
145°	550.3	519.7	516.2	502.4	488.5
147.5°	562.5	538.0	534.6	521.1	507.7
150°	568.9	547.6	544.5	532.3	520.1
152.5°	573.1	553.8	551.5	542.3	533.0
155°	582.2	567.5	565.8	559.0	552.1
157.5°	591.3	581.2	579.5	572.9	566.3
160°	595.5	587.5	586.2	581.0	575.8
162.5°	599.9	594.1	593.2	589.2	585.4
165°	606.3	603.7	602.8	599.3	595.7
167.5°	611.3	609.1	608.7	607.0	605.4
170°	615.5	615.3	614.9	613.3	611.6
172.5°	615.7	615.7	615.7	615.3	614.9
175°	618.2	619.5	619.5	619.5	619.5
177.5°	618.6	619.5	619.5	619.5	619.5
180°	619.5	619.5	619.5	619.5	619.5



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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	7.92	8.61	9.05	9.73	11.30	10.72	11.41	11.85	12.53	14.10
	3H	8.38	9.00	9.52	10.13	11.71	12.04	12.65	13.18	13.79	15.37
	4H	8.57	9.15	9.72	10.28	11.87	12.47	13.05	13.62	14.19	15.77
	6H	8.68	9.21	9.84	10.35	11.95	12.74	13.27	13.90	14.41	16.01
	8H	8.67	9.18	9.83	10.33	11.93	12.80	13.31	13.96	14.46	16.06
	12H	8.64	9.12	9.80	10.27	11.88	12.83	13.32	14.00	14.46	16.07
4H	2H	8.92	9.51	10.08	10.64	12.23	11.11	11.69	12.27	12.82	14.41
	3H	9.93	10.42	11.10	11.58	13.18	12.59	13.07	13.75	14.23	15.83
	4H	10.20	10.65	11.37	11.80	13.42	13.10	13.55	14.27	14.70	16.31
	6H	10.32	10.70	11.49	11.87	13.48	13.45	13.83	14.62	15.00	16.61
	8H	10.32	10.68	11.49	11.84	13.46	13.55	13.90	14.72	15.06	16.69
	12H	10.28	10.60	11.46	11.77	13.41	13.59	13.91	14.77	15.08	16.72
8H	4H	10.64	10.99	11.81	12.16	13.78	13.21	13.57	14.38	14.73	16.36
	6H	10.89	11.19	12.08	12.39	14.01	13.63	13.93	14.82	15.13	16.75
	8H	10.93	11.19	12.13	12.37	14.01	13.78	14.03	14.97	15.22	16.86
	12H	10.91	11.13	12.11	12.31	13.99	13.86	14.09	15.06	15.27	16.94
12H	4H	10.63	10.96	11.82	12.13	13.76	13.17	13.49	14.35	14.66	16.30
	6H	10.95	11.21	12.14	12.39	14.03	13.63	13.89	14.82	15.07	16.71
	8H	11.01	11.23	12.21	12.41	14.09	13.78	14.00	14.98	15.18	16.86