

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: P935106

Luminaire Tested: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935106
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-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

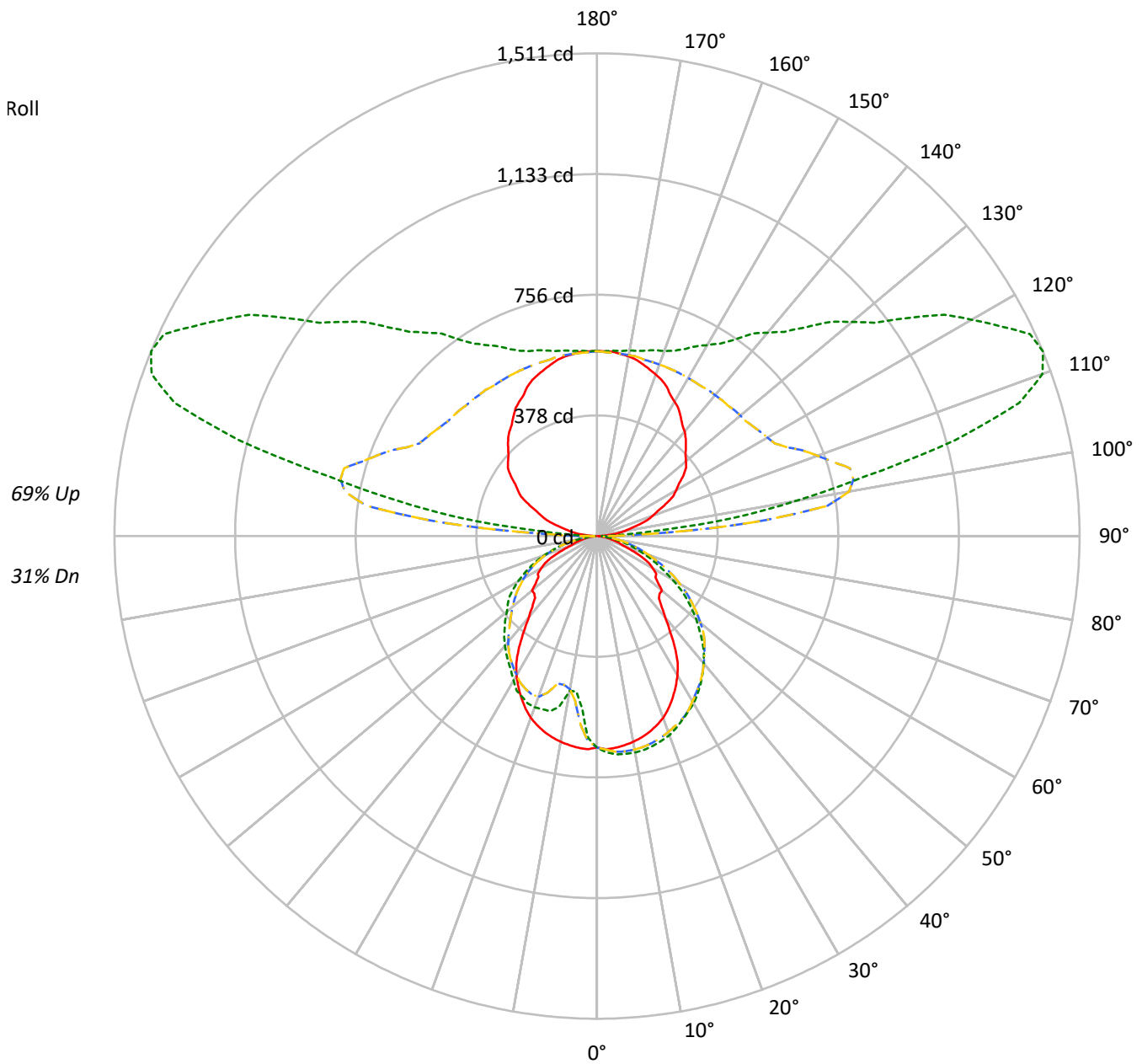
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5471.3 lumens
Efficiency: N/A
Efficacy: 132.8 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: P935106
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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°	6144	6144	6144	6144
5°	6183	6202	6183	4876
10°	6135	6109	6135	4368
15°	6061	5977	6061	4991
20°	5927	5820	5927	5001
25°	5661	5591	5661	4895
30°	5319	5402	5319	4663
35°	4735	5161	4735	4407
40°	3938	4879	3938	4214
45°	3512	4548	3512	3991
50°	3723	4153	3723	3768
55°	3493	3728	3493	3640
60°	3588	3165	3588	3333
65°	3236	2617	3236	2925
70°	2226	2086	2226	2453
75°	1928	1543	1928	1847
80°	1526	1020	1526	1110
85°	828	539	828	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.1
10°-20°	169.7	3.1
20°-30°	262.3	4.8
30°-40°	313.1	5.7
40°-50°	315.0	5.8
50°-60°	274.1	5.0
60°-70°	194.3	3.6
70°-80°	102.8	1.9
80°-90°	27.8	0.5
90°-100°	282.1	5.2
100°-110°	741.8	13.6
110°-120°	769.2	14.1
120°-130°	617.0	11.3
130°-140°	484.1	8.8
140°-150°	371.6	6.8
150°-160°	267.6	4.9
160°-170°	163.7	3.0
170°-180°	55.3	1.0
0°-30°	491.8	9.0
0°-40°	804.9	14.7
0°-60°	1394.0	25.5
0°-90°	1718.9	31.4
90°-120°	1793.2	32.8
90°-150°	3265.8	59.7
90°-180°	3752.0	68.6
0°-180°	5471.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	662	662	662	662	662	
5°	665	686	665	539	665	63
15°	635	680	635	568	635	179
25°	559	634	559	555	559	257
35°	425	566	425	483	425	263
45°	274	466	274	409	274	220
55°	224	344	224	336	224	206
65°	155	207	155	232	155	148
75°	59	98	59	118	59	62
85°	10	25	10	21	10	14
90°	4	15	4	15	4	4
95°	37	170	37	170	37	41
105°	134	1162	134	1162	134	142
115°	237	1496	237	1496	237	234
125°	330	1191	330	1191	330	293
135°	394	924	394	924	394	304
145°	456	750	456	750	456	286
155°	516	646	516	646	516	237
165°	557	601	557	601	557	157
175°	579	583	579	583	579	55
180°	579	579	579	579	579	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	667.7	667.7	671.5	672.8	672.8	670.9	669.0	670.9	676.5	678.4	677.7
5°	665.2	670.2	677.2	678.4	679.7	679.0	677.7	679.0	685.3	686.5	687.1
7.5°	660.2	669.6	678.4	680.2	682.1	680.2	679.7	680.9	687.1	688.4	688.4
10°	654.0	667.1	677.2	678.4	680.2	678.4	678.4	680.9	687.1	688.4	689.0
12.5°	645.2	663.3	672.8	674.0	676.5	675.8	675.3	677.7	684.1	685.3	685.3
15°	635.1	656.4	665.2	666.5	670.9	669.6	669.6	672.1	679.0	680.9	680.2
17.5°	621.4	647.7	657.7	659.6	662.8	662.1	662.8	665.2	671.5	672.8	673.4
20°	605.7	635.8	647.7	649.6	652.7	652.7	652.7	655.9	662.1	664.6	664.6
22.5°	584.4	623.3	635.8	637.1	640.8	640.8	642.0	646.4	652.0	652.7	652.7
25°	559.4	609.4	620.1	623.9	627.6	629.5	631.4	633.9	635.8	635.1	635.8
27.5°	533.0	592.0	605.7	608.2	613.3	615.1	617.7	618.2	618.9	620.7	619.5
30°	503.6	567.5	588.1	590.7	598.8	600.1	597.6	598.8	602.0	603.2	604.5
32.5°	470.5	531.2	570.0	575.6	583.2	579.5	578.8	580.7	585.7	585.7	586.9
35°	425.3	503.0	553.1	558.2	563.8	559.4	561.9	562.5	565.6	567.5	566.8
37.5°	375.8	478.6	535.6	539.3	543.7	538.1	541.8	543.7	546.2	545.0	545.0
40°	331.9	440.4	514.9	517.4	521.2	516.8	520.5	521.8	523.0	521.8	521.2
42.5°	299.4	398.4	493.0	496.1	493.6	496.7	498.0	500.5	498.6	496.1	496.1
45°	274.3	387.1	469.1	472.9	469.1	474.2	476.1	476.1	470.5	469.1	468.5
47.5°	266.2	364.5	445.3	445.3	443.5	449.7	452.9	448.5	442.9	440.9	440.9
50°	265.6	339.5	412.8	410.3	419.1	426.6	423.5	419.1	414.7	407.8	407.8
52.5°	241.2	308.8	370.8	380.2	394.0	398.4	393.4	389.0	381.4	378.4	375.8
55°	223.6	276.8	332.6	351.4	365.8	371.5	362.0	357.6	346.4	344.6	343.2
57.5°	219.9	230.5	297.6	321.3	338.9	338.3	332.6	324.5	315.0	313.2	312.6
60°	201.7	166.6	259.9	288.1	306.3	304.4	299.4	291.9	283.1	281.9	280.7
62.5°	182.9	120.9	217.3	249.3	275.0	274.3	270.0	258.7	252.5	249.3	246.8
65°	155.3	101.4	154.8	207.3	244.3	245.5	236.1	228.0	221.1	217.3	216.7
67.5°	118.4	82.7	104.6	172.9	214.8	213.6	201.7	197.9	189.1	187.3	183.5
70°	87.7	55.1	72.7	140.3	186.1	182.9	173.5	169.1	161.0	156.6	154.1
72.5°	72.7	44.5	53.2	109.0	156.6	152.8	144.7	139.7	132.8	129.1	126.6
75°	58.8	47.0	40.7	80.8	127.1	124.7	117.1	112.1	106.5	101.4	102.1
77.5°	43.2	43.8	32.6	59.5	100.9	97.1	92.7	86.5	84.0	78.9	78.9
80°	32.6	34.5	24.5	40.7	72.7	72.7	68.9	64.5	60.1	57.6	57.6
82.5°	21.9	21.9	18.1	25.7	49.5	47.6	45.1	43.8	41.4	40.1	40.1
85°	10.0	12.5	11.3	15.7	26.9	28.2	28.2	26.9	26.3	25.0	25.7
87.5°	3.2	5.6	6.9	8.8	13.8	14.4	15.0	15.0	15.0	15.7	15.7
90°	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7	14.8	14.8
92.5°	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6	73.8	70.9
95°	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0	250.6	241.7
97.5°	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0	578.4	561.5
100°	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7	812.3	792.1
102.5°	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9	1012.0	994.7
105°	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4	1245.1	1235.9
107.5°	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7	1366.3	1368.6
110°	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5	1397.4	1407.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4	1377.6	1392.4
115°	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6	1310.4	1331.0
117.5°	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0	1217.6	1240.4
120°	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4	1155.0	1177.2
122.5°	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6	1092.4	1114.3
125°	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3	1009.7	1029.8
127.5°	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3	943.2	960.2
130°	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3	901.3	917.0
132.5°	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5	865.5	879.6
135°	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3	815.0	827.2
137.5°	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1	777.7	787.6
140°	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3	747.9	757.1
142.5°	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3	726.8	734.9
145°	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1	695.4	701.4
147.5°	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5	669.0	674.1
150°	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3	653.8	657.8
152.5°	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3	641.8	644.8
155°	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8	627.4	629.4
157.5°	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5	614.9	616.3
160°	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4	608.8	609.6
162.5°	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4	602.9	603.6
165°	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6	594.0	594.9
167.5°	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2	590.1	590.5
170°	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2	590.1	590.1
172.5°	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1	587.0	586.7
175°	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3	582.7	582.7
177.5°	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0	582.0	581.6
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	679.0	677.2	679.0	677.7	678.4	676.5	670.9	669.0	670.9	672.8	672.8
5°	687.1	685.9	687.1	687.1	686.5	685.3	679.0	677.7	679.0	679.7	678.4
7.5°	689.7	687.8	689.7	688.4	688.4	687.1	680.9	679.7	680.2	682.1	680.2
10°	689.7	687.8	689.7	689.0	688.4	687.1	680.9	678.4	678.4	680.2	678.4
12.5°	686.5	685.3	686.5	685.3	685.3	684.1	677.7	675.3	675.8	676.5	674.0
15°	681.5	679.7	681.5	680.2	680.9	679.0	672.1	669.6	669.6	670.9	666.5
17.5°	674.0	671.5	674.0	673.4	672.8	671.5	665.2	662.8	662.1	662.8	659.6
20°	665.2	663.3	665.2	664.6	664.6	662.1	655.9	652.7	652.7	652.7	649.6
22.5°	651.5	649.6	651.5	652.7	652.7	652.0	646.4	642.0	640.8	640.8	637.1
25°	635.8	633.9	635.8	635.8	635.1	635.8	633.9	631.4	629.5	627.6	623.9
27.5°	620.7	619.5	620.7	619.5	620.7	618.9	618.2	617.7	615.1	613.3	608.2
30°	605.7	604.5	605.7	604.5	603.2	602.0	598.8	597.6	600.1	598.8	590.7
32.5°	586.9	585.7	586.9	586.9	585.7	585.7	580.7	578.8	579.5	583.2	575.6
35°	567.5	565.6	567.5	566.8	567.5	565.6	562.5	561.9	559.4	563.8	558.2
37.5°	545.0	543.1	545.0	545.0	545.0	546.2	543.7	541.8	538.1	543.7	539.3
40°	521.8	519.3	521.8	521.2	521.8	523.0	521.8	520.5	516.8	521.2	517.4
42.5°	495.5	494.8	495.5	496.1	496.1	498.6	500.5	498.0	496.7	493.6	496.1
45°	467.3	466.1	467.3	468.5	469.1	470.5	476.1	476.1	474.2	469.1	472.9
47.5°	437.2	434.1	437.2	440.9	440.9	442.9	448.5	452.9	449.7	443.5	445.3
50°	405.3	405.9	405.3	407.8	407.8	414.7	419.1	423.5	426.6	419.1	410.3
52.5°	374.0	373.3	374.0	375.8	378.4	381.4	389.0	393.4	398.4	394.0	380.2
55°	342.6	343.9	342.6	343.2	344.6	346.4	357.6	362.0	371.5	365.8	351.4
57.5°	311.3	309.4	311.3	312.6	313.2	315.0	324.5	332.6	338.3	338.9	321.3
60°	275.0	272.4	275.0	280.7	281.9	283.1	291.9	299.4	304.4	306.3	288.1
62.5°	243.0	238.6	243.0	246.8	249.3	252.5	258.7	270.0	274.3	275.0	249.3
65°	209.2	207.3	209.2	216.7	217.3	221.1	228.0	236.1	245.5	244.3	207.3
67.5°	178.5	178.5	178.5	183.5	187.3	189.1	197.9	201.7	213.6	214.8	172.9
70°	150.4	149.7	150.4	154.1	156.6	161.0	169.1	173.5	182.9	186.1	140.3
72.5°	123.4	122.7	123.4	126.6	129.1	132.8	139.7	144.7	152.8	156.6	109.0
75°	99.6	98.4	99.6	102.1	101.4	106.5	112.1	117.1	124.7	127.1	80.8
77.5°	76.4	76.4	76.4	78.9	78.9	84.0	86.5	92.7	97.1	100.9	59.5
80°	57.0	56.4	57.0	57.6	57.6	60.1	64.5	68.9	72.7	72.7	40.7
82.5°	40.1	38.9	40.1	40.1	40.1	41.4	43.8	45.1	47.6	49.5	25.7
85°	25.0	25.0	25.0	25.7	25.0	26.3	26.9	28.2	28.2	26.9	15.7
87.5°	16.3	15.7	16.3	15.7	15.7	15.0	15.0	15.0	14.4	13.8	8.8
90°	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4	17.1	10.8
92.5°	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0	105.4	75.0
95°	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4	259.4	146.1
97.5°	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3	349.4	160.5
100°	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7	382.2	172.5
102.5°	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7	397.2	184.6
105°	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8	408.3	202.4
107.5°	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4	410.4	228.8
110°	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5	407.2	243.6



TEST NUMBER: P935106

CATALOG NUMBER: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0	407.4	261.4
115°	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1	411.1	288.2
117.5°	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2	418.8	314.3
120°	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5	425.0	329.4
122.5°	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5	433.9	347.4
125°	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0	446.0	370.2
127.5°	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5	458.0	392.4
130°	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5	466.8	407.1
132.5°	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0	473.9	419.2
135°	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5	481.8	433.2
137.5°	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8	493.3	451.0
140°	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4	500.5	463.1
142.5°	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4	506.5	472.0
145°	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5	514.3	485.6
147.5°	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2	525.7	502.7
150°	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3	531.6	511.6
152.5°	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5	535.5	517.4
155°	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4	544.1	530.3
157.5°	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2	552.6	543.1
160°	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5	556.5	548.9
162.5°	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9	560.6	555.2
165°	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8	566.6	564.0
167.5°	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9	571.2	569.2
170°	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3	575.1	575.0
172.5°	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1	577.7	578.9
177.5°	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7	578.0	578.9
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935106

CATALOG NUMBER: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	671.5	667.7	667.7	661.5	658.9	657.1	654.0	644.6	642.0	639.5	643.3
5°	677.2	670.2	665.2	654.0	644.6	640.8	628.9	606.4	591.3	580.0	573.8
7.5°	678.4	669.6	660.2	642.7	620.1	610.1	573.8	532.5	521.2	511.2	504.8
10°	677.2	667.1	654.0	627.6	574.4	556.9	520.5	493.6	486.7	484.8	486.7
12.5°	672.8	663.3	645.2	601.3	526.8	514.9	493.6	477.9	476.7	479.8	496.7
15°	665.2	656.4	635.1	566.3	500.5	491.8	476.7	471.0	477.9	499.9	550.6
17.5°	657.7	647.7	621.4	531.8	480.4	474.2	463.5	474.8	513.6	543.1	560.0
20°	647.7	635.8	605.7	506.8	466.1	460.4	455.4	506.1	535.6	546.2	555.6
22.5°	635.8	623.3	584.4	489.2	451.0	446.6	449.7	523.7	535.6	543.1	551.2
25°	620.1	609.4	559.4	475.4	439.1	434.1	446.0	521.8	528.6	530.5	546.9
27.5°	605.7	592.0	533.0	462.9	424.7	422.8	449.2	513.6	518.7	520.5	538.1
30°	588.1	567.5	503.6	449.7	409.7	409.0	449.7	503.6	502.4	507.3	524.9
32.5°	570.0	531.2	470.5	433.5	395.3	394.6	445.3	488.6	487.4	494.2	507.3
35°	553.1	503.0	425.3	414.7	377.1	377.7	434.7	471.0	471.7	477.9	486.1
37.5°	535.6	478.6	375.8	394.0	359.6	359.6	420.3	454.8	453.6	455.4	466.6
40°	514.9	440.4	331.9	367.1	343.2	341.4	402.7	437.2	432.8	432.3	447.9
42.5°	493.0	398.4	299.4	331.4	324.5	321.9	381.4	415.9	407.8	409.7	429.7
45°	469.1	387.1	274.3	280.0	305.0	303.2	358.3	391.5	385.8	390.9	411.5
47.5°	445.3	364.5	266.2	232.4	284.4	283.7	332.6	367.7	364.5	369.6	391.5
50°	412.8	339.5	265.6	199.2	261.2	263.7	302.0	344.6	344.6	348.9	372.1
52.5°	370.8	308.8	241.2	180.4	234.2	241.8	275.0	324.5	325.7	330.1	350.8
55°	332.6	276.8	223.6	166.0	202.3	218.6	248.6	303.8	306.3	310.6	329.5
57.5°	297.6	230.5	219.9	149.1	172.9	188.6	225.5	283.7	285.0	288.8	306.9
60°	259.9	166.6	201.7	130.9	147.2	159.1	204.2	259.9	264.3	266.8	282.5
62.5°	217.3	120.9	182.9	118.4	134.7	137.2	186.7	237.4	243.0	244.9	254.3
65°	154.8	101.4	155.3	107.8	121.5	122.2	167.8	214.3	219.2	222.4	229.3
67.5°	104.6	82.7	118.4	97.7	111.5	112.1	149.7	187.3	194.2	196.7	201.1
70°	72.7	55.1	87.7	87.0	100.2	101.4	130.3	162.9	169.1	171.0	173.5
72.5°	53.2	44.5	72.7	78.3	88.4	89.6	110.2	135.3	141.6	143.5	144.7
75°	40.7	47.0	58.8	68.3	75.2	75.7	90.2	110.2	114.6	115.9	116.5
77.5°	32.6	43.8	43.2	55.1	61.4	60.1	70.8	85.2	88.9	88.9	88.9
80°	24.5	34.5	32.6	39.5	45.1	43.8	50.7	60.8	62.0	63.2	62.7
82.5°	18.1	21.9	21.9	25.0	30.1	28.9	33.8	39.5	39.5	39.5	40.7
85°	11.3	12.5	10.0	13.2	16.9	16.3	18.8	21.3	21.9	21.9	20.6
87.5°	6.9	5.6	3.2	5.0	7.5	7.5	8.8	9.4	8.8	8.8	8.8
90°	10.1	7.0	3.9	7.0	10.1	10.8	17.1	25.4	29.5	26.2	19.7
92.5°	68.4	41.9	15.5	41.9	68.4	75.0	105.4	146.0	166.3	145.7	104.6
95°	134.0	85.6	37.3	85.6	134.0	146.1	259.4	410.4	486.0	433.7	329.0
97.5°	149.8	107.1	64.4	107.1	149.8	160.5	349.4	601.3	727.2	694.1	628.0
100°	162.8	124.1	85.5	124.1	162.8	172.5	382.2	661.7	801.5	803.9	808.7
102.5°	175.5	139.4	103.3	139.4	175.5	184.6	397.2	680.7	822.5	864.6	948.9
105°	194.7	164.2	133.7	164.2	194.7	202.4	408.3	682.8	820.1	914.6	1103.4
107.5°	221.7	193.2	164.8	193.2	221.7	228.8	410.4	652.4	773.4	905.2	1168.7
110°	237.1	211.5	185.7	211.5	237.1	243.6	407.2	625.5	734.6	881.9	1176.5



TEST NUMBER: P935106

CATALOG NUMBER: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	255.3	230.8	206.3	230.8	255.3	261.4	407.4	602.0	699.3	850.0	1151.4
115°	282.5	259.9	237.3	259.9	282.5	288.2	411.1	575.1	657.0	802.2	1092.6
117.5°	309.2	288.6	268.1	288.6	309.2	314.3	418.8	558.2	627.8	758.9	1021.0
120°	324.6	305.2	285.9	305.2	324.6	329.4	425.0	552.5	616.2	735.9	975.4
122.5°	342.5	323.0	303.5	323.0	342.5	347.4	433.9	549.5	607.2	715.0	930.6
125°	365.8	348.0	330.3	348.0	365.8	370.2	446.0	547.0	597.5	689.1	872.3
127.5°	387.9	369.9	351.9	369.9	387.9	392.4	458.0	545.5	589.4	668.0	825.3
130°	402.3	382.9	363.6	382.9	402.3	407.1	466.8	546.5	586.3	656.3	796.3
132.5°	414.3	395.0	375.7	395.0	414.3	419.2	473.9	547.0	583.5	646.1	771.5
135°	428.8	411.1	393.6	411.1	428.8	433.2	481.8	546.5	578.9	631.4	736.3
137.5°	446.6	429.3	411.8	429.3	446.6	451.0	493.3	549.8	578.1	622.4	711.1
140°	459.1	443.0	426.9	443.0	459.1	463.1	500.5	550.4	575.3	613.6	690.3
142.5°	468.3	453.5	438.6	453.5	468.3	472.0	506.5	552.4	575.3	609.0	676.3
145°	482.3	469.4	456.4	469.4	482.3	485.6	514.3	552.5	571.5	599.1	654.1
147.5°	499.5	487.0	474.4	487.0	499.5	502.7	525.7	556.2	571.5	593.2	636.5
150°	508.7	497.4	486.0	497.4	508.7	511.6	531.6	558.3	571.5	589.8	626.3
152.5°	515.3	506.6	498.0	506.6	515.3	517.4	535.5	559.5	571.5	587.1	618.3
155°	528.7	522.3	515.9	522.3	528.7	530.3	544.1	562.4	571.5	583.9	608.8
157.5°	541.5	535.4	529.1	535.4	541.5	543.1	552.6	565.2	571.5	581.1	600.5
160°	547.7	542.9	538.1	542.9	547.7	548.9	556.5	566.5	571.5	579.8	596.4
162.5°	554.2	550.6	547.0	550.6	554.2	555.2	560.6	567.9	571.5	578.5	592.4
165°	563.2	559.9	556.7	559.9	563.2	564.0	566.6	569.8	571.5	576.6	586.6
167.5°	568.8	567.2	565.6	567.2	568.8	569.2	571.2	573.9	575.3	578.6	585.2
170°	574.6	573.0	571.5	573.0	574.6	575.0	575.1	575.3	575.3	578.6	585.2
172.5°	575.3	575.0	574.6	575.0	575.3	575.3	575.3	575.3	575.3	578.0	583.1
175°	578.9	578.9	578.9	578.9	578.9	578.9	577.7	576.1	575.3	577.0	580.3
177.5°	578.9	578.9	578.9	578.9	578.9	578.9	578.0	576.7	576.1	577.4	580.0
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935106
 CATALOG NUMBER: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	638.9	637.1	639.5	632.7	639.5	637.1	638.9	643.3	639.5	642.0	644.6
5°	560.6	557.5	547.5	539.3	547.5	557.5	560.6	573.8	580.0	591.3	606.4
7.5°	501.1	498.6	496.1	491.1	496.1	498.6	501.1	504.8	511.2	521.2	532.5
10°	487.9	488.6	492.3	491.8	492.3	488.6	487.9	486.7	484.8	486.7	493.6
12.5°	521.8	527.4	548.1	546.9	548.1	527.4	521.8	496.7	479.8	476.7	477.9
15°	560.6	562.5	566.8	567.5	566.8	562.5	560.6	550.6	499.9	477.9	471.0
17.5°	564.4	565.0	568.2	568.2	568.2	565.0	564.4	560.0	543.1	513.6	474.8
20°	561.2	562.5	568.8	570.0	568.8	562.5	561.2	555.6	546.2	535.6	506.1
22.5°	560.0	562.5	567.5	566.8	567.5	562.5	560.0	551.2	543.1	535.6	523.7
25°	553.8	553.8	554.3	555.0	554.3	553.8	553.8	546.9	530.5	528.6	521.8
27.5°	540.6	541.8	545.5	545.0	545.5	541.8	540.6	538.1	520.5	518.7	513.6
30°	528.6	527.4	524.3	521.8	524.3	527.4	528.6	524.9	507.3	502.4	503.6
32.5°	508.7	505.5	502.4	500.5	502.4	505.5	508.7	507.3	494.2	487.4	488.6
35°	484.8	485.5	484.8	483.0	484.8	485.5	484.8	486.1	477.9	471.7	471.0
37.5°	467.9	469.1	468.5	466.1	468.5	469.1	467.9	466.6	455.4	453.6	454.8
40°	450.4	451.0	450.4	448.5	450.4	451.0	450.4	447.9	432.3	432.8	437.2
42.5°	433.5	432.8	430.9	429.7	430.9	432.8	433.5	429.7	409.7	407.8	415.9
45°	414.0	414.7	410.9	409.0	410.9	414.7	414.0	411.5	390.9	385.8	391.5
47.5°	394.6	394.6	391.5	389.6	391.5	394.6	394.6	391.5	369.6	364.5	367.7
50°	374.0	373.3	368.9	368.3	368.9	373.3	374.0	372.1	348.9	344.6	344.6
52.5°	350.2	350.2	350.8	352.0	350.8	350.2	350.2	350.8	330.1	325.7	324.5
55°	329.5	330.1	334.5	335.8	334.5	330.1	329.5	329.5	310.6	306.3	303.8
57.5°	308.2	308.2	311.3	311.3	311.3	308.2	308.2	306.9	288.8	285.0	283.7
60°	283.7	285.0	287.5	286.9	287.5	285.0	283.7	282.5	266.8	264.3	259.9
62.5°	258.1	259.4	259.9	258.7	259.9	259.4	258.1	254.3	244.9	243.0	237.4
65°	231.2	232.4	233.0	231.7	233.0	232.4	231.2	229.3	222.4	219.2	214.3
67.5°	203.6	203.0	202.3	204.8	202.3	203.0	203.6	201.1	196.7	194.2	187.3
70°	175.4	175.4	174.8	176.1	174.8	175.4	175.4	173.5	171.0	169.1	162.9
72.5°	145.3	144.7	147.2	145.3	147.2	144.7	145.3	144.7	143.5	141.6	135.3
75°	115.9	117.1	115.9	117.8	115.9	117.1	115.9	116.5	115.9	114.6	110.2
77.5°	88.4	89.6	88.4	88.4	88.4	89.6	88.4	88.9	88.9	88.9	85.2
80°	62.7	62.0	62.0	61.4	62.0	62.0	62.7	62.7	63.2	62.0	60.8
82.5°	40.1	39.5	39.5	40.7	39.5	39.5	40.1	40.7	39.5	39.5	39.5
85°	21.9	22.5	21.3	21.3	21.3	22.5	21.9	20.6	21.9	21.9	21.3
87.5°	8.1	7.5	7.5	7.5	7.5	7.5	8.1	8.8	8.8	8.8	9.4
90°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	19.7	26.2	29.5	25.4
92.5°	73.8	70.9	59.1	47.4	59.1	70.9	73.8	104.6	145.7	166.3	146.0
95°	250.6	241.7	206.1	170.5	206.1	241.7	250.6	329.0	433.7	486.0	410.4
97.5°	578.4	561.5	493.8	426.2	493.8	561.5	578.4	628.0	694.1	727.2	601.3
100°	812.3	792.1	711.5	630.9	711.5	792.1	812.3	808.7	803.9	801.5	661.7
102.5°	1012.0	994.7	925.7	856.7	925.7	994.7	1012.0	948.9	864.6	822.5	680.7
105°	1245.1	1235.9	1198.7	1161.6	1198.7	1235.9	1245.1	1103.4	914.6	820.1	682.8
107.5°	1366.3	1368.6	1377.6	1386.5	1377.6	1368.6	1366.3	1168.7	905.2	773.4	652.4
110°	1397.4	1407.1	1445.7	1484.4	1445.7	1407.1	1397.4	1176.5	881.9	734.6	625.5



TEST NUMBER: P935106

CATALOG NUMBER: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1377.6	1392.4	1451.8	1511.2	1451.8	1392.4	1377.6	1151.4	850.0	699.3	602.0
115°	1310.4	1331.0	1413.3	1495.7	1413.3	1331.0	1310.4	1092.6	802.2	657.0	575.1
117.5°	1217.6	1240.4	1331.7	1423.0	1331.7	1240.4	1217.6	1021.0	758.9	627.8	558.2
120°	1155.0	1177.2	1265.9	1354.7	1265.9	1177.2	1155.0	975.4	735.9	616.2	552.5
122.5°	1092.4	1114.3	1201.9	1289.4	1201.9	1114.3	1092.4	930.6	715.0	607.2	549.5
125°	1009.7	1029.8	1110.4	1191.1	1110.4	1029.8	1009.7	872.3	689.1	597.5	547.0
127.5°	943.2	960.2	1028.3	1096.3	1028.3	960.2	943.2	825.3	668.0	589.4	545.5
130°	901.3	917.0	979.9	1042.7	979.9	917.0	901.3	796.3	656.3	586.3	546.5
132.5°	865.5	879.6	935.9	992.2	935.9	879.6	865.5	771.5	646.1	583.5	547.0
135°	815.0	827.2	875.6	924.2	875.6	827.2	815.0	736.3	631.4	578.9	546.5
137.5°	777.7	787.6	827.4	867.1	827.4	787.6	777.7	711.1	622.4	578.1	549.8
140°	747.9	757.1	794.3	831.4	794.3	757.1	747.9	690.3	613.6	575.3	550.4
142.5°	726.8	734.9	766.8	798.8	766.8	734.9	726.8	676.3	609.0	575.3	552.4
145°	695.4	701.4	725.6	749.8	725.6	701.4	695.4	654.1	599.1	571.5	552.5
147.5°	669.0	674.1	694.1	714.0	694.1	674.1	669.0	636.5	593.2	571.5	556.2
150°	653.8	657.8	674.1	690.3	674.1	657.8	653.8	626.3	589.8	571.5	558.3
152.5°	641.8	644.8	657.1	669.4	657.1	644.8	641.8	618.3	587.1	571.5	559.5
155°	627.4	629.4	637.5	645.7	637.5	629.4	627.4	608.8	583.9	571.5	562.4
157.5°	614.9	616.3	622.1	627.8	622.1	616.3	614.9	600.5	581.1	571.5	565.2
160°	608.8	609.6	612.9	616.2	612.9	609.6	608.8	596.4	579.8	571.5	566.5
162.5°	602.9	603.6	606.8	609.9	606.8	603.6	602.9	592.4	578.5	571.5	567.9
165°	594.0	594.9	598.1	601.4	598.1	594.9	594.0	586.6	576.6	571.5	569.8
167.5°	590.1	590.5	591.8	593.2	591.8	590.5	590.1	585.2	578.6	575.3	573.9
170°	590.1	590.1	590.1	590.1	590.1	590.1	590.1	585.2	578.6	575.3	575.3
172.5°	587.0	586.7	585.5	584.3	585.5	586.7	587.0	583.1	578.0	575.3	575.3
175°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	580.3	577.0	575.3	576.1
177.5°	582.0	581.6	580.3	578.9	580.3	581.6	582.0	580.0	577.4	576.1	576.7
180°	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935106

CATALOG NUMBER: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	654.0	657.1	658.9	661.5	667.7
5°	628.9	640.8	644.6	654.0	665.2
7.5°	573.8	610.1	620.1	642.7	660.2
10°	520.5	556.9	574.4	627.6	654.0
12.5°	493.6	514.9	526.8	601.3	645.2
15°	476.7	491.8	500.5	566.3	635.1
17.5°	463.5	474.2	480.4	531.8	621.4
20°	455.4	460.4	466.1	506.8	605.7
22.5°	449.7	446.6	451.0	489.2	584.4
25°	446.0	434.1	439.1	475.4	559.4
27.5°	449.2	422.8	424.7	462.9	533.0
30°	449.7	409.0	409.7	449.7	503.6
32.5°	445.3	394.6	395.3	433.5	470.5
35°	434.7	377.7	377.1	414.7	425.3
37.5°	420.3	359.6	359.6	394.0	375.8
40°	402.7	341.4	343.2	367.1	331.9
42.5°	381.4	321.9	324.5	331.4	299.4
45°	358.3	303.2	305.0	280.0	274.3
47.5°	332.6	283.7	284.4	232.4	266.2
50°	302.0	263.7	261.2	199.2	265.6
52.5°	275.0	241.8	234.2	180.4	241.2
55°	248.6	218.6	202.3	166.0	223.6
57.5°	225.5	188.6	172.9	149.1	219.9
60°	204.2	159.1	147.2	130.9	201.7
62.5°	186.7	137.2	134.7	118.4	182.9
65°	167.8	122.2	121.5	107.8	155.3
67.5°	149.7	112.1	111.5	97.7	118.4
70°	130.3	101.4	100.2	87.0	87.7
72.5°	110.2	89.6	88.4	78.3	72.7
75°	90.2	75.7	75.2	68.3	58.8
77.5°	70.8	60.1	61.4	55.1	43.2
80°	50.7	43.8	45.1	39.5	32.6
82.5°	33.8	28.9	30.1	25.0	21.9
85°	18.8	16.3	16.9	13.2	10.0
87.5°	8.8	7.5	7.5	5.0	3.2
90°	17.1	10.8	10.1	7.0	3.9
92.5°	105.4	75.0	68.4	41.9	15.5
95°	259.4	146.1	134.0	85.6	37.3
97.5°	349.4	160.5	149.8	107.1	64.4
100°	382.2	172.5	162.8	124.1	85.5
102.5°	397.2	184.6	175.5	139.4	103.3
105°	408.3	202.4	194.7	164.2	133.7
107.5°	410.4	228.8	221.7	193.2	164.8
110°	407.2	243.6	237.1	211.5	185.7



TEST NUMBER: P935106

CATALOG NUMBER: SQ4-FA-100U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	407.4	261.4	255.3	230.8	206.3
115°	411.1	288.2	282.5	259.9	237.3
117.5°	418.8	314.3	309.2	288.6	268.1
120°	425.0	329.4	324.6	305.2	285.9
122.5°	433.9	347.4	342.5	323.0	303.5
125°	446.0	370.2	365.8	348.0	330.3
127.5°	458.0	392.4	387.9	369.9	351.9
130°	466.8	407.1	402.3	382.9	363.6
132.5°	473.9	419.2	414.3	395.0	375.7
135°	481.8	433.2	428.8	411.1	393.6
137.5°	493.3	451.0	446.6	429.3	411.8
140°	500.5	463.1	459.1	443.0	426.9
142.5°	506.5	472.0	468.3	453.5	438.6
145°	514.3	485.6	482.3	469.4	456.4
147.5°	525.7	502.7	499.5	487.0	474.4
150°	531.6	511.6	508.7	497.4	486.0
152.5°	535.5	517.4	515.3	506.6	498.0
155°	544.1	530.3	528.7	522.3	515.9
157.5°	552.6	543.1	541.5	535.4	529.1
160°	556.5	548.9	547.7	542.9	538.1
162.5°	560.6	555.2	554.2	550.6	547.0
165°	566.6	564.0	563.2	559.9	556.7
167.5°	571.2	569.2	568.8	567.2	565.6
170°	575.1	575.0	574.6	573.0	571.5
172.5°	575.3	575.3	575.3	575.0	574.6
175°	577.7	578.9	578.9	578.9	578.9
177.5°	578.0	578.9	578.9	578.9	578.9
180°	578.9	578.9	578.9	578.9	578.9



TEST NUMBER: P935106
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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	9.08	9.79	10.18	10.89	12.41	11.87	12.59	12.98	13.69	15.20
	3H	9.54	10.18	10.65	11.29	12.82	13.20	13.84	14.31	14.95	16.48
	4H	9.73	10.34	10.85	11.44	12.98	13.63	14.24	14.75	15.35	16.88
	6H	9.84	10.40	10.97	11.51	13.06	13.90	14.46	15.03	15.57	17.12
	8H	9.84	10.37	10.97	11.49	13.04	13.97	14.50	15.10	15.62	17.17
	12H	9.80	10.31	10.94	11.43	12.99	13.99	14.50	15.13	15.62	17.18
4H	2H	10.08	10.69	11.21	11.80	13.34	12.27	12.88	13.40	13.98	15.52
	3H	11.10	11.60	12.23	12.74	14.29	13.75	14.26	14.88	15.39	16.94
	4H	11.37	11.83	12.50	12.96	14.52	14.26	14.73	15.40	15.85	17.42
	6H	11.48	11.88	12.63	13.03	14.59	14.61	15.01	15.76	16.16	17.72
	8H	11.49	11.86	12.63	13.00	14.57	14.71	15.08	15.86	16.22	17.80
	12H	11.45	11.78	12.61	12.93	14.52	14.76	15.09	15.92	16.24	17.83
8H	4H	11.80	12.18	12.95	13.31	14.89	14.38	14.75	15.52	15.89	17.47
	6H	12.06	12.37	13.22	13.55	15.12	14.80	15.11	15.96	16.29	17.86
	8H	12.10	12.37	13.27	13.53	15.12	14.95	15.21	16.12	16.37	17.97
	12H	12.08	12.31	13.25	13.47	15.10	15.03	15.27	16.21	16.42	18.05
12H	4H	11.80	12.14	12.96	13.29	14.87	14.34	14.67	15.50	15.82	17.41
	6H	12.12	12.39	13.29	13.54	15.14	14.80	15.06	15.97	16.22	17.82
	8H	12.18	12.41	13.35	13.57	15.20	14.95	15.18	16.12	16.34	17.97