

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: P935057

Luminaire Tested: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935057
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-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

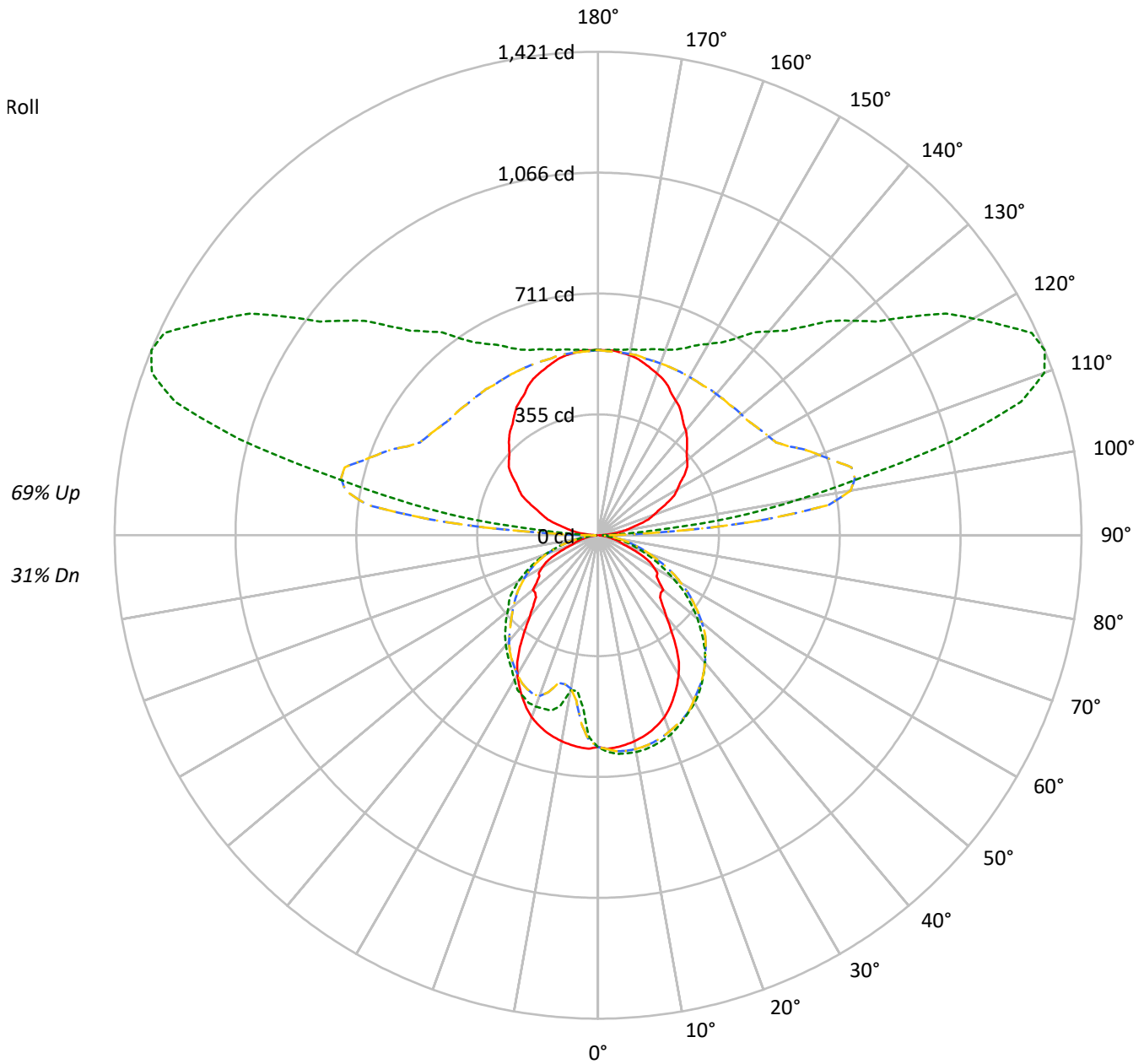
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5145.1 lumens
Efficiency: N/A
Efficacy: 124.9 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: P935057
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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	
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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5777	5777	5777	5777
5°	5814	5832	5814	4585
10°	5769	5745	5769	4107
15°	5699	5620	5699	4693
20°	5574	5473	5574	4703
25°	5323	5258	5323	4603
30°	5002	5079	5002	4385
35°	4453	4853	4453	4144
40°	3703	4587	3703	3963
45°	3303	4277	3303	3753
50°	3502	3905	3502	3543
55°	3285	3506	3285	3422
60°	3374	2977	3374	3135
65°	3045	2461	3045	2750
70°	2094	1962	2094	2307
75°	1813	1450	1813	1737
80°	1437	958	1437	1043
85°	778	506	778	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5072 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.1
10°-20°	159.6	3.1
20°-30°	246.7	4.8
30°-40°	294.5	5.7
40°-50°	296.2	5.8
50°-60°	257.7	5.0
60°-70°	182.7	3.6
70°-80°	96.7	1.9
80°-90°	26.2	0.5
90°-100°	265.3	5.2
100°-110°	697.6	13.6
110°-120°	723.3	14.1
120°-130°	580.2	11.3
130°-140°	455.2	8.8
140°-150°	349.4	6.8
150°-160°	251.6	4.9
160°-170°	154.0	3.0
170°-180°	52.0	1.0
0°-30°	462.4	9.0
0°-40°	756.9	14.7
0°-60°	1310.8	25.5
0°-90°	1616.4	31.4
90°-120°	1686.2	32.8
90°-150°	3071.0	59.7
90°-180°	3529.0	68.6
0°-180°	5145.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	623	623	623	623	623	
5°	626	645	626	507	626	59
15°	597	639	597	534	597	168
25°	526	596	526	522	526	242
35°	400	532	400	454	400	247
45°	258	438	258	385	258	207
55°	210	323	210	316	210	193
65°	146	195	146	218	146	140
75°	55	92	55	111	55	58
85°	9	24	9	20	9	13
90°	4	14	4	14	4	3
95°	35	160	35	160	35	39
105°	126	1092	126	1092	126	133
115°	223	1406	223	1406	223	220
125°	311	1120	311	1120	311	276
135°	370	869	370	869	370	286
145°	429	705	429	705	429	269
155°	485	607	485	607	485	223
165°	524	566	524	566	524	148
175°	544	548	544	548	544	52
180°	544	544	544	544	544	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	627.9	627.9	631.4	632.6	632.6	630.9	629.1	630.9	636.2	637.9	637.3
5°	625.5	630.3	636.8	637.9	639.1	638.5	637.3	638.5	644.4	645.6	646.2
7.5°	620.9	629.7	637.9	639.7	641.4	639.7	639.1	640.3	646.2	647.3	647.3
10°	615.0	627.3	636.8	637.9	639.7	637.9	637.9	640.3	646.2	647.3	647.9
12.5°	606.7	623.8	632.6	633.8	636.2	635.5	635.0	637.3	643.3	644.4	644.4
15°	597.2	617.3	625.5	626.8	630.9	629.7	629.7	632.0	638.5	640.3	639.7
17.5°	584.3	609.1	618.5	620.3	623.2	622.6	623.2	625.5	631.4	632.6	633.3
20°	569.6	597.9	609.1	610.9	613.8	613.8	613.8	616.7	622.6	625.0	625.0
22.5°	549.6	586.1	597.9	599.1	602.6	602.6	603.7	607.9	613.1	613.8	613.8
25°	526.0	573.1	583.1	586.7	590.2	592.0	593.7	596.1	597.9	597.2	597.9
27.5°	501.2	556.7	569.6	571.9	576.7	578.4	580.8	581.3	582.0	583.7	582.6
30°	473.6	533.7	553.1	555.4	563.1	564.3	561.9	563.1	566.1	567.2	568.4
32.5°	442.4	499.5	536.0	541.3	548.4	544.9	544.3	546.0	550.8	550.8	551.9
35°	400.0	473.0	520.1	524.9	530.1	526.0	528.4	528.9	531.9	533.7	533.0
37.5°	353.4	450.0	503.6	507.1	511.3	506.0	509.5	511.3	513.6	512.5	512.5
40°	312.1	414.1	484.2	486.6	490.1	486.0	489.5	490.7	491.8	490.7	490.1
42.5°	281.6	374.6	463.6	466.6	464.2	467.1	468.3	470.7	468.8	466.6	466.6
45°	258.0	364.1	441.2	444.7	441.2	445.9	447.7	447.7	442.4	441.2	440.6
47.5°	250.3	342.8	418.8	418.8	417.0	422.9	425.9	421.8	416.5	414.6	414.6
50°	249.8	319.3	388.2	385.8	394.1	401.1	398.2	394.1	390.0	383.5	383.5
52.5°	226.8	290.4	348.7	357.6	370.5	374.6	369.9	365.8	358.7	355.8	353.4
55°	210.3	260.3	312.8	330.4	344.0	349.3	340.4	336.3	325.8	324.0	322.8
57.5°	206.8	216.8	279.8	302.1	318.6	318.1	312.8	305.1	296.3	294.5	294.0
60°	189.7	156.7	244.4	271.0	288.0	286.2	281.6	274.5	266.2	265.1	263.9
62.5°	172.0	113.7	204.4	234.4	258.6	258.0	253.9	243.3	237.4	234.4	232.0
65°	146.1	95.4	145.5	195.0	229.8	230.9	222.0	214.4	207.9	204.4	203.8
67.5°	111.4	77.7	98.4	162.6	202.0	200.9	189.7	186.1	177.9	176.1	172.6
70°	82.5	51.8	68.3	131.9	175.0	172.0	163.2	159.1	151.4	147.3	144.9
72.5°	68.3	41.8	50.1	102.5	147.3	143.7	136.0	131.4	124.9	121.4	119.0
75°	55.3	44.2	38.3	76.0	119.5	117.3	110.1	105.4	100.1	95.4	96.0
77.5°	40.7	41.2	30.7	55.9	94.9	91.3	87.2	81.3	79.0	74.2	74.2
80°	30.7	32.4	23.0	38.3	68.3	68.3	64.8	60.7	56.6	54.2	54.2
82.5°	20.6	20.6	17.0	24.2	46.5	44.8	42.4	41.2	38.9	37.7	37.7
85°	9.4	11.8	10.6	14.8	25.3	26.5	26.5	25.3	24.8	23.5	24.2
87.5°	3.0	5.3	6.5	8.3	13.0	13.5	14.1	14.1	14.1	14.8	14.8
90°	3.7	6.6	9.5	10.2	16.1	23.9	27.8	24.7	18.5	13.9	13.9
92.5°	14.6	39.4	64.3	70.5	99.2	137.3	156.3	137.0	98.4	69.4	66.7
95°	35.0	80.5	126.0	137.4	243.9	385.9	457.0	407.8	309.4	235.6	227.3
97.5°	60.6	100.7	140.9	150.9	328.6	565.5	683.8	652.8	590.6	543.9	528.0
100°	80.4	116.7	153.1	162.2	359.4	622.3	753.7	756.0	760.4	763.9	744.9
102.5°	97.1	131.1	165.0	173.6	373.5	640.1	773.4	813.0	892.3	951.6	935.4
105°	125.7	154.4	183.1	190.3	384.0	642.1	771.2	860.0	1037.6	1170.9	1162.2
107.5°	154.9	181.7	208.5	215.2	385.9	613.5	727.3	851.2	1099.0	1284.9	1287.0
110°	174.6	198.8	223.0	229.1	382.9	588.2	690.8	829.3	1106.3	1314.0	1323.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	194.0	217.0	240.0	245.8	383.1	566.1	657.6	799.3	1082.8	1295.4	1309.4
115°	223.2	244.4	265.7	271.0	386.6	540.8	617.8	754.4	1027.4	1232.3	1251.6
117.5°	252.1	271.4	290.7	295.5	393.8	524.9	590.4	713.6	960.1	1145.0	1166.4
120°	268.8	287.0	305.2	309.8	399.6	519.5	579.4	692.0	917.2	1086.1	1107.0
122.5°	285.4	303.7	322.1	326.6	408.1	516.7	571.0	672.3	875.1	1027.3	1047.8
125°	310.6	327.3	343.9	348.2	419.4	514.3	561.8	648.0	820.2	949.4	968.4
127.5°	330.9	347.8	364.8	369.0	430.7	513.0	554.2	628.2	776.1	887.0	903.0
130°	341.9	360.1	378.3	382.9	439.0	513.9	551.3	617.2	748.8	847.6	862.3
132.5°	353.3	371.4	389.6	394.2	445.6	514.3	548.7	607.6	725.5	813.9	827.2
135°	370.1	386.6	403.2	407.4	453.0	513.9	544.4	593.7	692.4	766.4	777.8
137.5°	387.2	403.7	420.0	424.1	463.9	517.1	543.6	585.3	668.7	731.4	740.7
140°	401.5	416.6	431.7	435.5	470.7	517.6	541.0	577.0	649.2	703.3	712.0
142.5°	412.5	426.4	440.4	443.9	476.3	519.4	541.0	572.7	636.0	683.5	691.0
145°	429.2	441.4	453.6	456.6	483.6	519.5	537.4	563.3	615.1	653.9	659.6
147.5°	446.1	457.9	469.7	472.7	494.3	523.0	537.4	557.8	598.6	629.1	633.9
150°	457.0	467.7	478.4	481.1	499.9	525.0	537.4	554.6	589.0	614.8	618.6
152.5°	468.3	476.4	484.6	486.6	503.5	526.1	537.4	552.1	581.4	603.5	606.4
155°	485.2	491.1	497.2	498.7	511.6	528.8	537.4	549.1	572.5	590.0	591.9
157.5°	497.6	503.4	509.2	510.7	519.6	531.5	537.4	546.5	564.7	578.3	579.6
160°	506.0	510.6	515.0	516.2	523.3	532.7	537.4	545.2	560.8	572.5	573.3
162.5°	514.3	517.8	521.2	522.1	527.2	534.0	537.4	544.0	557.1	566.9	567.6
165°	523.5	526.5	529.6	530.4	532.8	535.9	537.4	542.2	551.6	558.6	559.4
167.5°	531.9	533.4	534.9	535.2	537.2	539.7	541.0	544.1	550.3	554.9	555.3
170°	537.4	538.8	540.3	540.7	540.8	540.9	541.0	544.1	550.3	554.9	554.9
172.5°	540.3	540.7	540.9	541.0	541.0	541.0	541.0	543.5	548.3	552.0	551.7
175°	544.4	544.4	544.4	544.4	543.2	541.7	541.0	542.6	545.7	548.0	548.0
177.5°	544.4	544.4	544.4	544.4	543.5	542.4	541.7	543.0	545.4	547.3	546.9
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	638.5	636.8	638.5	637.3	637.9	636.2	630.9	629.1	630.9	632.6	632.6
5°	646.2	645.0	646.2	646.2	645.6	644.4	638.5	637.3	638.5	639.1	637.9
7.5°	648.5	646.8	648.5	647.3	647.3	646.2	640.3	639.1	639.7	641.4	639.7
10°	648.5	646.8	648.5	647.9	647.3	646.2	640.3	637.9	637.9	639.7	637.9
12.5°	645.6	644.4	645.6	644.4	644.4	643.3	637.3	635.0	635.5	636.2	633.8
15°	640.9	639.1	640.9	639.7	640.3	638.5	632.0	629.7	629.7	630.9	626.8
17.5°	633.8	631.4	633.8	633.3	632.6	631.4	625.5	623.2	622.6	623.2	620.3
20°	625.5	623.8	625.5	625.0	625.0	622.6	616.7	613.8	613.8	613.8	610.9
22.5°	612.6	610.9	612.6	613.8	613.8	613.1	607.9	603.7	602.6	602.6	599.1
25°	597.9	596.1	597.9	597.9	597.2	597.9	596.1	593.7	592.0	590.2	586.7
27.5°	583.7	582.6	583.7	582.6	583.7	582.0	581.3	580.8	578.4	576.7	571.9
30°	569.6	568.4	569.6	568.4	567.2	566.1	563.1	561.9	564.3	563.1	555.4
32.5°	551.9	550.8	551.9	551.9	550.8	550.8	546.0	544.3	544.9	548.4	541.3
35°	533.7	531.9	533.7	533.0	533.7	531.9	528.9	528.4	526.0	530.1	524.9
37.5°	512.5	510.7	512.5	512.5	512.5	513.6	511.3	509.5	506.0	511.3	507.1
40°	490.7	488.3	490.7	490.1	490.7	491.8	490.7	489.5	486.0	490.1	486.6
42.5°	465.9	465.3	465.9	466.6	466.6	468.8	470.7	468.3	467.1	464.2	466.6
45°	439.4	438.3	439.4	440.6	441.2	442.4	447.7	447.7	445.9	441.2	444.7
47.5°	411.1	408.2	411.1	414.6	414.6	416.5	421.8	425.9	422.9	417.0	418.8
50°	381.1	381.7	381.1	383.5	383.5	390.0	394.1	398.2	401.1	394.1	385.8
52.5°	351.7	351.1	351.7	353.4	355.8	358.7	365.8	369.9	374.6	370.5	357.6
55°	322.2	323.4	322.2	322.8	324.0	325.8	336.3	340.4	349.3	344.0	330.4
57.5°	292.7	291.0	292.7	294.0	294.5	296.3	305.1	312.8	318.1	318.6	302.1
60°	258.6	256.2	258.6	263.9	265.1	266.2	274.5	281.6	286.2	288.0	271.0
62.5°	228.5	224.4	228.5	232.0	234.4	237.4	243.3	253.9	258.0	258.6	234.4
65°	196.7	195.0	196.7	203.8	204.4	207.9	214.4	222.0	230.9	229.8	195.0
67.5°	167.8	167.8	167.8	172.6	176.1	177.9	186.1	189.7	200.9	202.0	162.6
70°	141.4	140.8	141.4	144.9	147.3	151.4	159.1	163.2	172.0	175.0	131.9
72.5°	116.0	115.4	116.0	119.0	121.4	124.9	131.4	136.0	143.7	147.3	102.5
75°	93.6	92.5	93.6	96.0	95.4	100.1	105.4	110.1	117.3	119.5	76.0
77.5°	71.8	71.8	71.8	74.2	74.2	79.0	81.3	87.2	91.3	94.9	55.9
80°	53.6	53.0	53.6	54.2	54.2	56.6	60.7	64.8	68.3	68.3	38.3
82.5°	37.7	36.5	37.7	37.7	37.7	38.9	41.2	42.4	44.8	46.5	24.2
85°	23.5	23.5	23.5	24.2	23.5	24.8	25.3	26.5	26.5	25.3	14.8
87.5°	15.3	14.8	15.3	14.8	14.8	14.1	14.1	14.1	13.5	13.0	8.3
90°	13.9	13.9	13.9	13.9	13.9	18.5	24.7	27.8	23.9	16.1	10.2
92.5°	55.6	44.5	55.6	66.7	69.4	98.4	137.0	156.3	137.3	99.2	70.5
95°	193.8	160.4	193.8	227.3	235.6	309.4	407.8	457.0	385.9	243.9	137.4
97.5°	464.4	400.8	464.4	528.0	543.9	590.6	652.8	683.8	565.5	328.6	150.9
100°	669.1	593.3	669.1	744.9	763.9	760.4	756.0	753.7	622.3	359.4	162.2
102.5°	870.5	805.6	870.5	935.4	951.6	892.3	813.0	773.4	640.1	373.5	173.6
105°	1127.2	1092.3	1127.2	1162.2	1170.9	1037.6	860.0	771.2	642.1	384.0	190.3
107.5°	1295.4	1303.8	1295.4	1287.0	1284.9	1099.0	851.2	727.3	613.5	385.9	215.2
110°	1359.5	1395.9	1359.5	1323.2	1314.0	1106.3	829.3	690.8	588.2	382.9	229.1



TEST NUMBER: P935057

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1365.2	1421.1	1365.2	1309.4	1295.4	1082.8	799.3	657.6	566.1	383.1	245.8
115°	1329.0	1406.5	1329.0	1251.6	1232.3	1027.4	754.4	617.8	540.8	386.6	271.0
117.5°	1252.3	1338.2	1252.3	1166.4	1145.0	960.1	713.6	590.4	524.9	393.8	295.5
120°	1190.4	1273.9	1190.4	1107.0	1086.1	917.2	692.0	579.4	519.5	399.6	309.8
122.5°	1130.2	1212.5	1130.2	1047.8	1027.3	875.1	672.3	571.0	516.7	408.1	326.6
125°	1044.2	1120.1	1044.2	968.4	949.4	820.2	648.0	561.8	514.3	419.4	348.2
127.5°	967.0	1030.9	967.0	903.0	887.0	776.1	628.2	554.2	513.0	430.7	369.0
130°	921.4	980.5	921.4	862.3	847.6	748.8	617.2	551.3	513.9	439.0	382.9
132.5°	880.1	933.0	880.1	827.2	813.9	725.5	607.6	548.7	514.3	445.6	394.2
135°	823.4	869.1	823.4	777.8	766.4	692.4	593.7	544.4	513.9	453.0	407.4
137.5°	778.1	815.4	778.1	740.7	731.4	668.7	585.3	543.6	517.1	463.9	424.1
140°	746.9	781.8	746.9	712.0	703.3	649.2	577.0	541.0	517.6	470.7	435.5
142.5°	721.1	751.1	721.1	691.0	683.5	636.0	572.7	541.0	519.4	476.3	443.9
145°	682.4	705.1	682.4	659.6	653.9	615.1	563.3	537.4	519.5	483.6	456.6
147.5°	652.7	671.5	652.7	633.9	629.1	598.6	557.8	537.4	523.0	494.3	472.7
150°	633.9	649.2	633.9	618.6	614.8	589.0	554.6	537.4	525.0	499.9	481.1
152.5°	617.9	629.5	617.9	606.4	603.5	581.4	552.1	537.4	526.1	503.5	486.6
155°	599.5	607.2	599.5	591.9	590.0	572.5	549.1	537.4	528.8	511.6	498.7
157.5°	585.0	590.4	585.0	579.6	578.3	564.7	546.5	537.4	531.5	519.6	510.7
160°	576.3	579.4	576.3	573.3	572.5	560.8	545.2	537.4	532.7	523.3	516.2
162.5°	570.6	573.5	570.6	567.6	566.9	557.1	544.0	537.4	534.0	527.2	522.1
165°	562.5	565.5	562.5	559.4	558.6	551.6	542.2	537.4	535.9	532.8	530.4
167.5°	556.5	557.8	556.5	555.3	554.9	550.3	544.1	541.0	539.7	537.2	535.2
170°	554.9	554.9	554.9	554.9	554.9	550.3	544.1	541.0	540.9	540.8	540.7
172.5°	550.6	549.5	550.6	551.7	552.0	548.3	543.5	541.0	541.0	541.0	541.0
175°	548.0	548.0	548.0	548.0	548.0	545.7	542.6	541.0	541.7	543.2	544.4
177.5°	545.7	544.4	545.7	546.9	547.3	545.4	543.0	541.7	542.4	543.5	544.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



TEST NUMBER: P935057

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	631.4	627.9	627.9	622.0	619.6	617.9	615.0	606.1	603.7	601.4	605.0
5°	636.8	630.3	625.5	615.0	606.1	602.6	591.4	570.2	556.1	545.4	539.5
7.5°	637.9	629.7	620.9	604.4	583.1	573.7	539.5	500.7	490.1	480.7	474.7
10°	636.8	627.3	615.0	590.2	540.2	523.6	489.5	464.2	457.7	455.9	457.7
12.5°	632.6	623.8	606.7	565.5	495.4	484.2	464.2	449.4	448.3	451.2	467.1
15°	625.5	617.3	597.2	532.5	470.7	462.4	448.3	442.9	449.4	470.1	517.8
17.5°	618.5	609.1	584.3	500.1	451.8	445.9	435.9	446.5	483.0	510.7	526.6
20°	609.1	597.9	569.6	476.6	438.3	432.9	428.3	476.0	503.6	513.6	522.5
22.5°	597.9	586.1	549.6	460.1	424.1	420.0	422.9	492.5	503.6	510.7	518.4
25°	583.1	573.1	526.0	447.1	412.9	408.2	419.4	490.7	497.1	498.9	514.2
27.5°	569.6	556.7	501.2	435.3	399.4	397.6	422.4	483.0	487.7	489.5	506.0
30°	553.1	533.7	473.6	422.9	385.2	384.6	422.9	473.6	472.4	477.1	493.6
32.5°	536.0	499.5	442.4	407.6	371.7	371.1	418.8	459.4	458.3	464.7	477.1
35°	520.1	473.0	400.0	390.0	354.6	355.2	408.8	442.9	443.5	449.4	457.1
37.5°	503.6	450.0	353.4	370.5	338.1	338.1	395.2	427.6	426.5	428.3	438.8
40°	484.2	414.1	312.1	345.2	322.8	321.0	378.7	411.1	407.0	406.5	421.1
42.5°	463.6	374.6	281.6	311.6	305.1	302.8	358.7	391.1	383.5	385.2	404.1
45°	441.2	364.1	258.0	263.3	286.9	285.1	336.9	368.2	362.8	367.6	387.0
47.5°	418.8	342.8	250.3	218.5	267.4	266.8	312.8	345.8	342.8	347.5	368.2
50°	388.2	319.3	249.8	187.3	245.7	247.9	284.0	324.0	324.0	328.1	349.9
52.5°	348.7	290.4	226.8	169.6	220.3	227.4	258.6	305.1	306.3	310.4	329.9
55°	312.8	260.3	210.3	156.1	190.2	205.6	233.8	285.7	288.0	292.1	309.9
57.5°	279.8	216.8	206.8	140.2	162.6	177.3	212.0	266.8	268.0	271.6	288.6
60°	244.4	156.7	189.7	123.1	138.4	149.6	192.0	244.4	248.6	250.9	265.7
62.5°	204.4	113.7	172.0	111.4	126.7	129.0	175.6	223.3	228.5	230.3	239.2
65°	145.5	95.4	146.1	101.4	114.3	114.9	157.8	201.5	206.1	209.1	215.6
67.5°	98.4	77.7	111.4	91.9	104.9	105.4	140.8	176.1	182.6	185.0	189.1
70°	68.3	51.8	82.5	81.9	94.2	95.4	122.5	153.2	159.1	160.8	163.2
72.5°	50.1	41.8	68.3	73.6	83.1	84.2	103.6	127.3	133.2	134.9	136.0
75°	38.3	44.2	55.3	64.2	70.7	71.2	84.8	103.6	107.8	109.0	109.5
77.5°	30.7	41.2	40.7	51.8	57.7	56.6	66.6	80.1	83.6	83.6	83.6
80°	23.0	32.4	30.7	37.2	42.4	41.2	47.7	57.2	58.3	59.5	58.9
82.5°	17.0	20.6	20.6	23.5	28.3	27.1	31.8	37.2	37.2	37.2	38.3
85°	10.6	11.8	9.4	12.4	15.9	15.3	17.7	20.0	20.6	20.6	19.4
87.5°	6.5	5.3	3.0	4.7	7.0	7.0	8.3	8.9	8.3	8.3	8.3
90°	9.5	6.6	3.7	6.6	9.5	10.2	16.1	23.9	27.8	24.7	18.5
92.5°	64.3	39.4	14.6	39.4	64.3	70.5	99.2	137.3	156.3	137.0	98.4
95°	126.0	80.5	35.0	80.5	126.0	137.4	243.9	385.9	457.0	407.8	309.4
97.5°	140.9	100.7	60.6	100.7	140.9	150.9	328.6	565.5	683.8	652.8	590.6
100°	153.1	116.7	80.4	116.7	153.1	162.2	359.4	622.3	753.7	756.0	760.4
102.5°	165.0	131.1	97.1	131.1	165.0	173.6	373.5	640.1	773.4	813.0	892.3
105°	183.1	154.4	125.7	154.4	183.1	190.3	384.0	642.1	771.2	860.0	1037.6
107.5°	208.5	181.7	154.9	181.7	208.5	215.2	385.9	613.5	727.3	851.2	1099.0
110°	223.0	198.8	174.6	198.8	223.0	229.1	382.9	588.2	690.8	829.3	1106.3



TEST NUMBER: P935057

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	240.0	217.0	194.0	217.0	240.0	245.8	383.1	566.1	657.6	799.3	1082.8
115°	265.7	244.4	223.2	244.4	265.7	271.0	386.6	540.8	617.8	754.4	1027.4
117.5°	290.7	271.4	252.1	271.4	290.7	295.5	393.8	524.9	590.4	713.6	960.1
120°	305.2	287.0	268.8	287.0	305.2	309.8	399.6	519.5	579.4	692.0	917.2
122.5°	322.1	303.7	285.4	303.7	322.1	326.6	408.1	516.7	571.0	672.3	875.1
125°	343.9	327.3	310.6	327.3	343.9	348.2	419.4	514.3	561.8	648.0	820.2
127.5°	364.8	347.8	330.9	347.8	364.8	369.0	430.7	513.0	554.2	628.2	776.1
130°	378.3	360.1	341.9	360.1	378.3	382.9	439.0	513.9	551.3	617.2	748.8
132.5°	389.6	371.4	353.3	371.4	389.6	394.2	445.6	514.3	548.7	607.6	725.5
135°	403.2	386.6	370.1	386.6	403.2	407.4	453.0	513.9	544.4	593.7	692.4
137.5°	420.0	403.7	387.2	403.7	420.0	424.1	463.9	517.1	543.6	585.3	668.7
140°	431.7	416.6	401.5	416.6	431.7	435.5	470.7	517.6	541.0	577.0	649.2
142.5°	440.4	426.4	412.5	426.4	440.4	443.9	476.3	519.4	541.0	572.7	636.0
145°	453.6	441.4	429.2	441.4	453.6	456.6	483.6	519.5	537.4	563.3	615.1
147.5°	469.7	457.9	446.1	457.9	469.7	472.7	494.3	523.0	537.4	557.8	598.6
150°	478.4	467.7	457.0	467.7	478.4	481.1	499.9	525.0	537.4	554.6	589.0
152.5°	484.6	476.4	468.3	476.4	484.6	486.6	503.5	526.1	537.4	552.1	581.4
155°	497.2	491.1	485.2	491.1	497.2	498.7	511.6	528.8	537.4	549.1	572.5
157.5°	509.2	503.4	497.6	503.4	509.2	510.7	519.6	531.5	537.4	546.5	564.7
160°	515.0	510.6	506.0	510.6	515.0	516.2	523.3	532.7	537.4	545.2	560.8
162.5°	521.2	517.8	514.3	517.8	521.2	522.1	527.2	534.0	537.4	544.0	557.1
165°	529.6	526.5	523.5	526.5	529.6	530.4	532.8	535.9	537.4	542.2	551.6
167.5°	534.9	533.4	531.9	533.4	534.9	535.2	537.2	539.7	541.0	544.1	550.3
170°	540.3	538.8	537.4	538.8	540.3	540.7	540.8	540.9	541.0	544.1	550.3
172.5°	540.9	540.7	540.3	540.7	540.9	541.0	541.0	541.0	541.0	543.5	548.3
175°	544.4	544.4	544.4	544.4	544.4	544.4	543.2	541.7	541.0	542.6	545.7
177.5°	544.4	544.4	544.4	544.4	544.4	544.4	543.5	542.4	541.7	543.0	545.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



TEST NUMBER: P935057

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	600.8	599.1	601.4	595.0	601.4	599.1	600.8	605.0	601.4	603.7	606.1
5°	527.2	524.3	514.9	507.1	514.9	524.3	527.2	539.5	545.4	556.1	570.2
7.5°	471.2	468.8	466.6	461.8	466.6	468.8	471.2	474.7	480.7	490.1	500.7
10°	458.8	459.4	463.0	462.4	463.0	459.4	458.8	457.7	455.9	457.7	464.2
12.5°	490.7	496.0	515.4	514.2	515.4	496.0	490.7	467.1	451.2	448.3	449.4
15°	527.2	528.9	533.0	533.7	533.0	528.9	527.2	517.8	470.1	449.4	442.9
17.5°	530.8	531.3	534.3	534.3	534.3	531.3	530.8	526.6	510.7	483.0	446.5
20°	527.8	528.9	534.9	536.0	534.9	528.9	527.8	522.5	513.6	503.6	476.0
22.5°	526.6	528.9	533.7	533.0	533.7	528.9	526.6	518.4	510.7	503.6	492.5
25°	520.7	520.7	521.3	521.9	521.3	520.7	520.7	514.2	498.9	497.1	490.7
27.5°	508.4	509.5	513.0	512.5	513.0	509.5	508.4	506.0	489.5	487.7	483.0
30°	497.1	496.0	493.0	490.7	493.0	496.0	497.1	493.6	477.1	472.4	473.6
32.5°	478.3	475.3	472.4	470.7	472.4	475.3	478.3	477.1	464.7	458.3	459.4
35°	455.9	456.5	455.9	454.2	455.9	456.5	455.9	457.1	449.4	443.5	442.9
37.5°	440.0	441.2	440.6	438.3	440.6	441.2	440.0	438.8	428.3	426.5	427.6
40°	423.5	424.1	423.5	421.8	423.5	424.1	423.5	421.1	406.5	407.0	411.1
42.5°	407.6	407.0	405.2	404.1	405.2	407.0	407.6	404.1	385.2	383.5	391.1
45°	389.4	390.0	386.4	384.6	386.4	390.0	389.4	387.0	367.6	362.8	368.2
47.5°	371.1	371.1	368.2	366.3	368.2	371.1	371.1	368.2	347.5	342.8	345.8
50°	351.7	351.1	346.9	346.3	346.9	351.1	351.7	349.9	328.1	324.0	324.0
52.5°	329.3	329.3	329.9	331.0	329.9	329.3	329.3	329.9	310.4	306.3	305.1
55°	309.9	310.4	314.5	315.7	314.5	310.4	309.9	309.9	292.1	288.0	285.7
57.5°	289.8	289.8	292.7	292.7	292.7	289.8	289.8	288.6	271.6	268.0	266.8
60°	266.8	268.0	270.3	269.8	270.3	268.0	266.8	265.7	250.9	248.6	244.4
62.5°	242.7	243.9	244.4	243.3	244.4	243.9	242.7	239.2	230.3	228.5	223.3
65°	217.4	218.5	219.1	217.9	219.1	218.5	217.4	215.6	209.1	206.1	201.5
67.5°	191.5	190.9	190.2	192.6	190.2	190.9	191.5	189.1	185.0	182.6	176.1
70°	164.9	164.9	164.3	165.6	164.3	164.9	164.9	163.2	160.8	159.1	153.2
72.5°	136.7	136.0	138.4	136.7	138.4	136.0	136.7	136.0	134.9	133.2	127.3
75°	109.0	110.1	109.0	110.8	109.0	110.1	109.0	109.5	109.0	107.8	103.6
77.5°	83.1	84.2	83.1	83.1	83.1	84.2	83.1	83.6	83.6	83.6	80.1
80°	58.9	58.3	58.3	57.7	58.3	58.3	58.9	58.9	59.5	58.3	57.2
82.5°	37.7	37.2	37.2	38.3	37.2	37.2	37.7	38.3	37.2	37.2	37.2
85°	20.6	21.2	20.0	20.0	20.0	21.2	20.6	19.4	20.6	20.6	20.0
87.5°	7.6	7.0	7.0	7.0	7.0	7.0	7.6	8.3	8.3	8.3	8.9
90°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	18.5	24.7	27.8	23.9
92.5°	69.4	66.7	55.6	44.5	55.6	66.7	69.4	98.4	137.0	156.3	137.3
95°	235.6	227.3	193.8	160.4	193.8	227.3	235.6	309.4	407.8	457.0	385.9
97.5°	543.9	528.0	464.4	400.8	464.4	528.0	543.9	590.6	652.8	683.8	565.5
100°	763.9	744.9	669.1	593.3	669.1	744.9	763.9	760.4	756.0	753.7	622.3
102.5°	951.6	935.4	870.5	805.6	870.5	935.4	951.6	892.3	813.0	773.4	640.1
105°	1170.9	1162.2	1127.2	1092.3	1127.2	1162.2	1170.9	1037.6	860.0	771.2	642.1
107.5°	1284.9	1287.0	1295.4	1303.8	1295.4	1287.0	1284.9	1099.0	851.2	727.3	613.5
110°	1314.0	1323.2	1359.5	1395.9	1359.5	1323.2	1314.0	1106.3	829.3	690.8	588.2



TEST NUMBER: P935057

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1295.4	1309.4	1365.2	1421.1	1365.2	1309.4	1295.4	1082.8	799.3	657.6	566.1
115°	1232.3	1251.6	1329.0	1406.5	1329.0	1251.6	1232.3	1027.4	754.4	617.8	540.8
117.5°	1145.0	1166.4	1252.3	1338.2	1252.3	1166.4	1145.0	960.1	713.6	590.4	524.9
120°	1086.1	1107.0	1190.4	1273.9	1190.4	1107.0	1086.1	917.2	692.0	579.4	519.5
122.5°	1027.3	1047.8	1130.2	1212.5	1130.2	1047.8	1027.3	875.1	672.3	571.0	516.7
125°	949.4	968.4	1044.2	1120.1	1044.2	968.4	949.4	820.2	648.0	561.8	514.3
127.5°	887.0	903.0	967.0	1030.9	967.0	903.0	887.0	776.1	628.2	554.2	513.0
130°	847.6	862.3	921.4	980.5	921.4	862.3	847.6	748.8	617.2	551.3	513.9
132.5°	813.9	827.2	880.1	933.0	880.1	827.2	813.9	725.5	607.6	548.7	514.3
135°	766.4	777.8	823.4	869.1	823.4	777.8	766.4	692.4	593.7	544.4	513.9
137.5°	731.4	740.7	778.1	815.4	778.1	740.7	731.4	668.7	585.3	543.6	517.1
140°	703.3	712.0	746.9	781.8	746.9	712.0	703.3	649.2	577.0	541.0	517.6
142.5°	683.5	691.0	721.1	751.1	721.1	691.0	683.5	636.0	572.7	541.0	519.4
145°	653.9	659.6	682.4	705.1	682.4	659.6	653.9	615.1	563.3	537.4	519.5
147.5°	629.1	633.9	652.7	671.5	652.7	633.9	629.1	598.6	557.8	537.4	523.0
150°	614.8	618.6	633.9	649.2	633.9	618.6	614.8	589.0	554.6	537.4	525.0
152.5°	603.5	606.4	617.9	629.5	617.9	606.4	603.5	581.4	552.1	537.4	526.1
155°	590.0	591.9	599.5	607.2	599.5	591.9	590.0	572.5	549.1	537.4	528.8
157.5°	578.3	579.6	585.0	590.4	585.0	579.6	578.3	564.7	546.5	537.4	531.5
160°	572.5	573.3	576.3	579.4	576.3	573.3	572.5	560.8	545.2	537.4	532.7
162.5°	566.9	567.6	570.6	573.5	570.6	567.6	566.9	557.1	544.0	537.4	534.0
165°	558.6	559.4	562.5	565.5	562.5	559.4	558.6	551.6	542.2	537.4	535.9
167.5°	554.9	555.3	556.5	557.8	556.5	555.3	554.9	550.3	544.1	541.0	539.7
170°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	550.3	544.1	541.0	540.9
172.5°	552.0	551.7	550.6	549.5	550.6	551.7	552.0	548.3	543.5	541.0	541.0
175°	548.0	548.0	548.0	548.0	548.0	548.0	548.0	545.7	542.6	541.0	541.7
177.5°	547.3	546.9	545.7	544.4	545.7	546.9	547.3	545.4	543.0	541.7	542.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	622.6	622.6	622.6	622.6	622.6
2.5°	615.0	617.9	619.6	622.0	627.9
5°	591.4	602.6	606.1	615.0	625.5
7.5°	539.5	573.7	583.1	604.4	620.9
10°	489.5	523.6	540.2	590.2	615.0
12.5°	464.2	484.2	495.4	565.5	606.7
15°	448.3	462.4	470.7	532.5	597.2
17.5°	435.9	445.9	451.8	500.1	584.3
20°	428.3	432.9	438.3	476.6	569.6
22.5°	422.9	420.0	424.1	460.1	549.6
25°	419.4	408.2	412.9	447.1	526.0
27.5°	422.4	397.6	399.4	435.3	501.2
30°	422.9	384.6	385.2	422.9	473.6
32.5°	418.8	371.1	371.7	407.6	442.4
35°	408.8	355.2	354.6	390.0	400.0
37.5°	395.2	338.1	338.1	370.5	353.4
40°	378.7	321.0	322.8	345.2	312.1
42.5°	358.7	302.8	305.1	311.6	281.6
45°	336.9	285.1	286.9	263.3	258.0
47.5°	312.8	266.8	267.4	218.5	250.3
50°	284.0	247.9	245.7	187.3	249.8
52.5°	258.6	227.4	220.3	169.6	226.8
55°	233.8	205.6	190.2	156.1	210.3
57.5°	212.0	177.3	162.6	140.2	206.8
60°	192.0	149.6	138.4	123.1	189.7
62.5°	175.6	129.0	126.7	111.4	172.0
65°	157.8	114.9	114.3	101.4	146.1
67.5°	140.8	105.4	104.9	91.9	111.4
70°	122.5	95.4	94.2	81.9	82.5
72.5°	103.6	84.2	83.1	73.6	68.3
75°	84.8	71.2	70.7	64.2	55.3
77.5°	66.6	56.6	57.7	51.8	40.7
80°	47.7	41.2	42.4	37.2	30.7
82.5°	31.8	27.1	28.3	23.5	20.6
85°	17.7	15.3	15.9	12.4	9.4
87.5°	8.3	7.0	7.0	4.7	3.0
90°	16.1	10.2	9.5	6.6	3.7
92.5°	99.2	70.5	64.3	39.4	14.6
95°	243.9	137.4	126.0	80.5	35.0
97.5°	328.6	150.9	140.9	100.7	60.6
100°	359.4	162.2	153.1	116.7	80.4
102.5°	373.5	173.6	165.0	131.1	97.1
105°	384.0	190.3	183.1	154.4	125.7
107.5°	385.9	215.2	208.5	181.7	154.9
110°	382.9	229.1	223.0	198.8	174.6



TEST NUMBER: P935057

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	383.1	245.8	240.0	217.0	194.0
115°	386.6	271.0	265.7	244.4	223.2
117.5°	393.8	295.5	290.7	271.4	252.1
120°	399.6	309.8	305.2	287.0	268.8
122.5°	408.1	326.6	322.1	303.7	285.4
125°	419.4	348.2	343.9	327.3	310.6
127.5°	430.7	369.0	364.8	347.8	330.9
130°	439.0	382.9	378.3	360.1	341.9
132.5°	445.6	394.2	389.6	371.4	353.3
135°	453.0	407.4	403.2	386.6	370.1
137.5°	463.9	424.1	420.0	403.7	387.2
140°	470.7	435.5	431.7	416.6	401.5
142.5°	476.3	443.9	440.4	426.4	412.5
145°	483.6	456.6	453.6	441.4	429.2
147.5°	494.3	472.7	469.7	457.9	446.1
150°	499.9	481.1	478.4	467.7	457.0
152.5°	503.5	486.6	484.6	476.4	468.3
155°	511.6	498.7	497.2	491.1	485.2
157.5°	519.6	510.7	509.2	503.4	497.6
160°	523.3	516.2	515.0	510.6	506.0
162.5°	527.2	522.1	521.2	517.8	514.3
165°	532.8	530.4	529.6	526.5	523.5
167.5°	537.2	535.2	534.9	533.4	531.9
170°	540.8	540.7	540.3	538.8	537.4
172.5°	541.0	541.0	540.9	540.7	540.3
175°	543.2	544.4	544.4	544.4	544.4
177.5°	543.5	544.4	544.4	544.4	544.4
180°	544.4	544.4	544.4	544.4	544.4



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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	8.86	9.58	9.97	10.68	12.19	11.66	12.38	12.76	13.48	14.99
	3H	9.33	9.97	10.44	11.08	12.61	12.99	13.63	14.10	14.73	16.26
	4H	9.51	10.12	10.63	11.23	12.77	13.42	14.02	14.54	15.13	16.67
	6H	9.63	10.19	10.75	11.30	12.84	13.68	14.24	14.81	15.36	16.90
	8H	9.62	10.15	10.76	11.28	12.82	13.75	14.28	14.88	15.41	16.95
	12H	9.59	10.09	10.73	11.21	12.78	13.78	14.29	14.92	15.41	16.97
4H	2H	9.87	10.48	11.00	11.59	13.12	12.05	12.66	13.18	13.77	15.31
	3H	10.88	11.39	12.02	12.52	14.07	13.54	14.04	14.67	15.18	16.73
	4H	11.15	11.62	12.29	12.74	14.31	14.05	14.52	15.19	15.64	17.21
	6H	11.27	11.67	12.41	12.82	14.38	14.40	14.80	15.54	15.94	17.50
	8H	11.27	11.64	12.42	12.78	14.36	14.50	14.87	15.64	16.01	17.59
	12H	11.23	11.57	12.39	12.72	14.30	14.54	14.88	15.70	16.03	17.61
8H	4H	11.59	11.96	12.73	13.10	14.68	14.16	14.54	15.31	15.67	17.25
	6H	11.84	12.15	13.01	13.33	14.91	14.59	14.89	15.75	16.07	17.65
	8H	11.89	12.15	13.06	13.31	14.91	14.73	15.00	15.90	16.16	17.75
	12H	11.86	12.10	13.04	13.26	14.88	14.82	15.05	15.99	16.21	17.84
12H	4H	11.59	11.93	12.75	13.07	14.66	14.12	14.46	15.28	15.61	17.19
	6H	11.90	12.17	13.07	13.33	14.92	14.58	14.85	15.75	16.01	17.60
	8H	11.96	12.20	13.14	13.36	14.98	14.73	14.97	15.91	16.12	17.75