

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: P934236

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934236
REPORT IS A COMBINATION OF REPORTS P933690 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

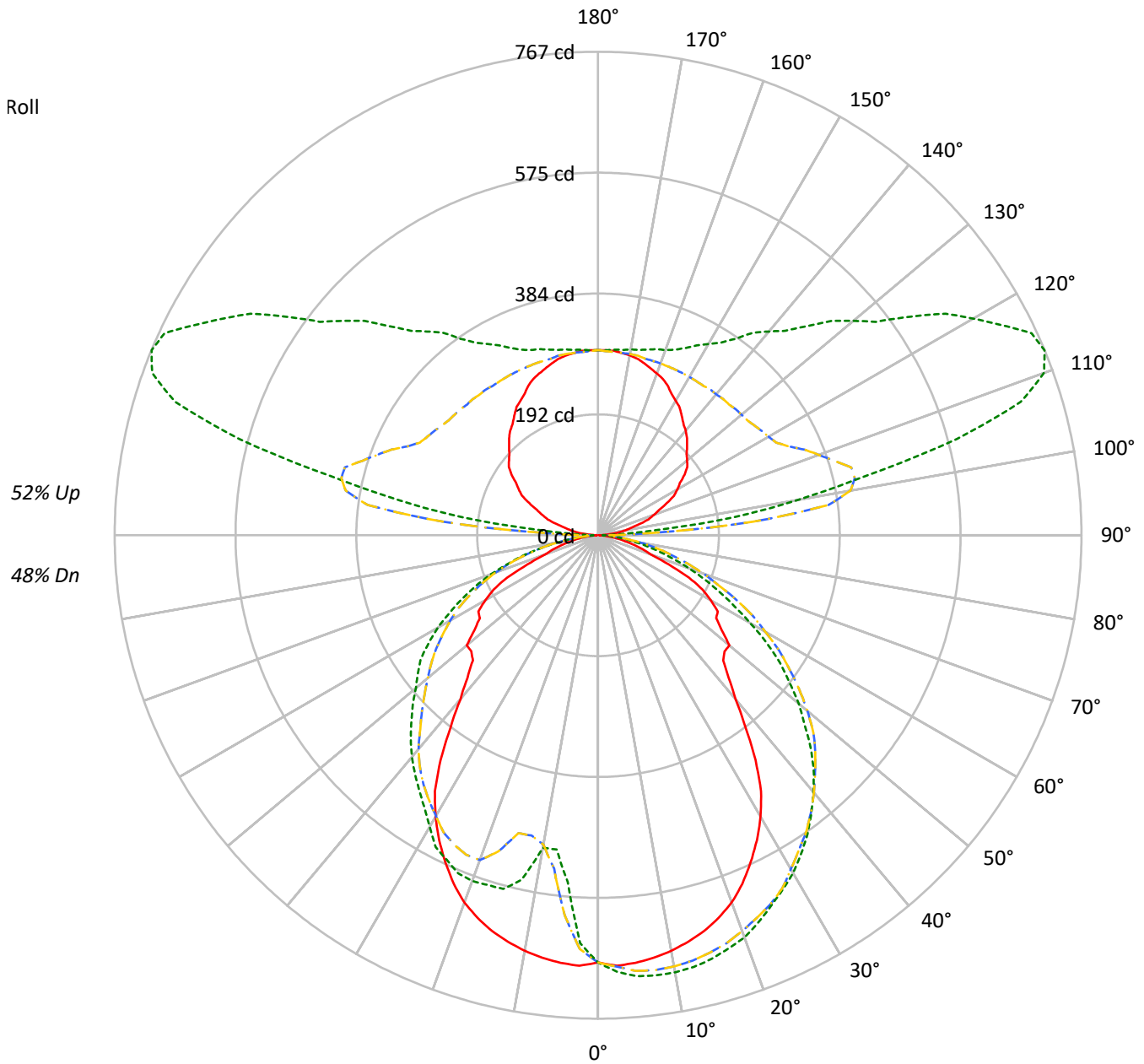
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3662.2 lumens
Efficiency: N/A
Efficacy: 128.9 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: General Diffuse

Input Watts (W): 28.4
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: P934236
CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

Luminous Intensity Polar Plot



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



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48	48	48	48	48	48	48	48	48	48																
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41	41	41	41	41	41	41	41	41	41																
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34	34	34	34	34	34	34	34	34	34																
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29	29	29	29	29	29	29	29	29	29																
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25	25	25	25	25	25	25	25	25	25																
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21	21	21	21	21	21	21	21	21	21																
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19	19	19	19	19	19	19	19	19	19																
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17	17	17	17	17	17	17	17	17	17																
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15	15	15	15	15	15	15	15	15	15																
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13	13	13	13	13	13	13	13	13	13																
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12	12	12	12	12	12	12	12	12	12																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6349	6329	4992
10°	6281	6254	6281	4471
15°	6205	6119	6205	5109
20°	6068	5958	6068	5120
25°	5796	5724	5796	5012
30°	5446	5529	5446	4773
35°	4848	5284	4848	4511
40°	4031	4994	4031	4314
45°	3595	4656	3595	4086
50°	3812	4252	3812	3857
55°	3575	3817	3575	3727
60°	3673	3241	3673	3412
65°	3313	2680	3313	2994
70°	2280	2136	2280	2510
75°	1974	1579	1974	1891
80°	1563	1045	1563	1135
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5522 cd/sqm



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	1.7
10°-20°	173.7	4.7
20°-30°	268.5	7.3
30°-40°	320.6	8.8
40°-50°	322.5	8.8
50°-60°	280.6	7.7
60°-70°	198.9	5.4
70°-80°	105.3	2.9
80°-90°	27.3	0.7
90°-100°	143.1	3.9
100°-110°	376.3	10.3
110°-120°	390.2	10.7
120°-130°	313.0	8.5
130°-140°	245.6	6.7
140°-150°	188.5	5.1
150°-160°	135.8	3.7
160°-170°	83.1	2.3
170°-180°	28.1	0.8
0°-30°	503.5	13.7
0°-40°	824.0	22.5
0°-60°	1427.1	39.0
0°-90°	1758.6	48.0
90°-120°	909.6	24.8
90°-150°	1656.7	45.2
90°-180°	1904.0	52.0
0°-180°	3662.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	681	702	681	552	681	65
15°	650	696	650	581	650	183
25°	573	649	573	568	573	263
35°	436	579	436	494	436	269
45°	281	477	281	419	281	225
55°	229	352	229	344	229	210
65°	159	212	159	237	159	152
75°	60	101	60	121	60	63
85°	10	26	10	22	10	14
90°	2	8	2	8	2	2
95°	19	86	19	86	19	21
105°	68	589	68	589	68	72
115°	120	759	120	759	120	119
125°	168	604	168	604	168	149
135°	200	469	200	469	200	154
145°	232	380	232	380	232	145
155°	262	328	262	328	262	120
165°	282	305	282	305	282	80
175°	294	296	294	296	294	28
180°	294	294	294	294	294	



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	683.6	683.6	687.4	688.7	688.7	686.8	684.9	686.8	692.6	694.5	693.8
5°	681.0	686.2	693.2	694.5	695.8	695.2	693.8	695.2	701.6	702.8	703.5
7.5°	675.9	685.5	694.5	696.4	698.3	696.4	695.8	697.1	703.5	704.7	704.7
10°	669.5	682.9	693.2	694.5	696.4	694.5	694.5	697.1	703.5	704.7	705.4
12.5°	660.5	679.1	688.7	690.0	692.6	691.9	691.3	693.8	700.3	701.6	701.6
15°	650.2	672.0	681.0	682.3	686.8	685.5	685.5	688.1	695.2	697.1	696.4
17.5°	636.2	663.1	673.4	675.3	678.5	677.8	678.5	681.0	687.4	688.7	689.4
20°	620.1	650.9	663.1	665.0	668.2	668.2	668.2	671.4	677.8	680.4	680.4
22.5°	598.3	638.1	650.9	652.2	656.0	656.0	657.3	661.8	667.5	668.2	668.2
25°	572.7	623.9	634.8	638.7	642.6	644.5	646.4	649.0	650.9	650.2	650.9
27.5°	545.7	606.0	620.1	622.7	627.8	629.7	632.3	632.9	633.6	635.5	634.2
30°	515.6	581.0	602.1	604.7	613.0	614.4	611.8	613.0	616.3	617.5	618.8
32.5°	481.6	543.8	583.6	589.3	597.0	593.2	592.6	594.5	599.6	599.6	600.9
35°	435.5	514.9	566.3	571.4	577.2	572.7	575.2	575.8	579.1	581.0	580.3
37.5°	384.8	490.0	548.3	552.1	556.6	550.9	554.7	556.6	559.2	557.9	557.9
40°	339.8	450.8	527.1	529.7	533.6	529.1	532.9	534.2	535.5	534.2	533.6
42.5°	306.6	407.8	504.7	507.9	505.3	508.5	509.8	512.4	510.4	507.9	507.9
45°	280.8	396.3	480.3	484.1	480.3	485.5	487.4	487.4	481.6	480.3	479.6
47.5°	272.5	373.2	455.9	455.9	454.0	460.4	463.7	459.2	453.4	451.4	451.4
50°	271.9	347.6	422.6	420.1	429.0	436.7	433.5	429.0	424.5	417.5	417.5
52.5°	246.9	316.1	379.6	389.3	403.3	407.8	402.7	398.3	390.5	387.4	384.8
55°	228.9	283.4	340.5	359.7	374.5	380.3	370.6	366.1	354.7	352.7	351.4
57.5°	225.1	236.0	304.6	328.9	346.9	346.3	340.5	332.2	322.5	320.6	320.0
60°	206.5	170.6	266.1	295.0	313.5	311.6	306.6	298.8	289.8	288.6	287.3
62.5°	187.2	123.7	222.5	255.2	281.5	280.8	276.4	264.9	258.5	255.2	252.6
65°	159.0	103.8	158.4	212.3	250.1	251.4	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.7	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.5	187.2	177.7	173.2	164.8	160.4	157.8
72.5°	74.4	45.5	54.5	111.6	160.4	156.4	148.1	143.0	136.0	132.1	129.6
75°	60.2	48.1	41.7	82.7	130.1	127.7	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.3	99.4	94.9	88.5	86.0	80.8	80.8
80°	33.4	35.3	25.1	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.6	26.3	50.7	48.8	46.2	44.8	42.4	41.0	41.0
85°	10.2	12.8	11.6	16.1	27.5	28.9	28.9	27.5	27.0	25.6	26.3
87.5°	3.3	5.7	7.1	9.0	14.2	14.7	15.4	15.4	15.4	16.1	16.1
90°	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9	7.5	7.5
92.5°	7.8	21.2	34.7	38.1	53.5	74.0	84.3	73.9	53.1	37.5	36.0
95°	18.9	43.4	68.0	74.1	131.6	208.2	246.5	219.9	166.9	127.1	122.6
97.5°	32.7	54.3	75.9	81.4	177.2	305.0	368.9	352.2	318.6	293.5	284.8
100°	43.3	62.9	82.6	87.5	193.8	335.6	406.6	407.8	410.3	412.1	401.9
102.5°	52.4	70.8	89.0	93.6	201.5	345.3	417.2	438.6	481.3	513.4	504.6
105°	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.8	631.7	627.0
107.5°	83.6	98.0	112.4	116.1	208.2	331.0	392.4	459.3	592.9	693.1	694.3
110°	94.2	107.2	120.3	123.5	206.6	317.4	372.7	447.4	596.9	708.9	713.8



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.6	117.0	129.5	132.6	206.6	305.4	354.7	431.2	584.1	698.9	706.4
115°	120.4	131.9	143.3	146.2	208.5	291.6	333.2	406.9	554.2	664.7	675.2
117.5°	136.0	146.4	156.8	159.4	212.5	283.1	318.5	385.0	517.9	617.6	629.2
120°	145.1	154.9	164.7	167.1	215.6	280.3	312.6	373.3	494.8	586.0	597.2
122.5°	153.9	163.9	173.7	176.2	220.1	278.7	308.0	362.7	472.2	554.2	565.3
125°	167.5	176.5	185.5	187.8	226.2	277.5	303.1	349.6	442.5	512.2	522.5
127.5°	178.5	187.7	196.8	199.1	232.4	276.8	299.0	338.9	418.6	478.5	487.1
130°	184.4	194.3	204.1	206.5	236.8	277.2	297.4	332.9	404.0	457.3	465.2
132.5°	190.6	200.4	210.2	212.7	240.5	277.5	296.0	327.8	391.4	439.1	446.3
135°	199.7	208.5	217.5	219.7	244.4	277.2	293.6	320.2	373.5	413.5	419.6
137.5°	208.9	217.7	226.6	228.8	250.3	278.9	293.3	315.7	360.8	394.5	399.6
140°	216.6	224.7	232.9	234.9	253.9	279.2	291.8	311.3	350.3	379.4	384.1
142.5°	222.5	230.1	237.5	239.4	256.9	280.2	291.8	308.9	343.1	368.7	372.7
145°	231.6	238.1	244.7	246.3	260.8	280.3	289.9	303.9	331.8	352.7	355.8
147.5°	240.7	247.1	253.4	255.0	266.7	282.2	289.9	300.9	322.9	339.4	341.9
150°	246.5	252.2	258.1	259.5	269.6	283.1	289.9	299.2	317.7	331.7	333.8
152.5°	252.6	257.0	261.4	262.5	271.7	283.8	289.9	297.9	313.7	325.6	327.1
155°	261.7	265.0	268.2	269.0	276.0	285.2	289.9	296.2	308.9	318.3	319.4
157.5°	268.4	271.6	274.7	275.5	280.3	286.7	289.9	294.8	304.6	312.0	312.8
160°	273.0	275.4	277.9	278.4	282.3	287.3	289.9	294.1	302.5	308.9	309.2
162.5°	277.5	279.3	281.1	281.6	284.4	288.1	289.9	293.5	300.5	305.9	306.3
165°	282.5	284.1	285.8	286.2	287.4	289.1	289.9	292.4	297.5	301.3	301.7
167.5°	287.0	287.7	288.5	288.7	289.7	291.2	291.8	293.6	296.9	299.4	299.6
170°	289.9	290.7	291.4	291.6	291.7	291.8	291.8	293.6	296.9	299.4	299.4
172.5°	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.2	295.8	297.8	297.6
175°	293.6	293.6	293.6	293.6	293.1	292.2	291.8	292.7	294.4	295.7	295.7
177.5°	293.6	293.6	293.6	293.6	293.2	292.6	292.3	293.0	294.3	295.3	295.1
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	695.2	693.2	695.2	693.8	694.5	692.6	686.8	684.9	686.8	688.7	688.7
5°	703.5	702.2	703.5	703.5	702.8	701.6	695.2	693.8	695.2	695.8	694.5
7.5°	706.1	704.1	706.1	704.7	704.7	703.5	697.1	695.8	696.4	698.3	696.4
10°	706.1	704.1	706.1	705.4	704.7	703.5	697.1	694.5	694.5	696.4	694.5
12.5°	702.8	701.6	702.8	701.6	701.6	700.3	693.8	691.3	691.9	692.6	690.0
15°	697.7	695.8	697.7	696.4	697.1	695.2	688.1	685.5	685.5	686.8	682.3
17.5°	690.0	687.4	690.0	689.4	688.7	687.4	681.0	678.5	677.8	678.5	675.3
20°	681.0	679.1	681.0	680.4	680.4	677.8	671.4	668.2	668.2	668.2	665.0
22.5°	666.9	665.0	666.9	668.2	668.2	667.5	661.8	657.3	656.0	656.0	652.2
25°	650.9	649.0	650.9	650.9	650.2	650.9	649.0	646.4	644.5	642.6	638.7
27.5°	635.5	634.2	635.5	634.2	635.5	633.6	632.9	632.3	629.7	627.8	622.7
30°	620.1	618.8	620.1	618.8	617.5	616.3	613.0	611.8	614.4	613.0	604.7
32.5°	600.9	599.6	600.9	600.9	599.6	599.6	594.5	592.6	593.2	597.0	589.3
35°	581.0	579.1	581.0	580.3	581.0	579.1	575.8	575.2	572.7	577.2	571.4
37.5°	557.9	556.0	557.9	557.9	557.9	559.2	556.6	554.7	550.9	556.6	552.1
40°	534.2	531.6	534.2	533.6	534.2	535.5	534.2	532.9	529.1	533.6	529.7
42.5°	507.3	506.6	507.3	507.9	507.9	510.4	512.4	509.8	508.5	505.3	507.9
45°	478.4	477.1	478.4	479.6	480.3	481.6	487.4	487.4	485.5	480.3	484.1
47.5°	447.6	444.4	447.6	451.4	451.4	453.4	459.2	463.7	460.4	454.0	455.9
50°	414.9	415.6	414.9	417.5	417.5	424.5	429.0	433.5	436.7	429.0	420.1
52.5°	382.9	382.2	382.9	384.8	387.4	390.5	398.3	402.7	407.8	403.3	389.3
55°	350.7	352.1	350.7	351.4	352.7	354.7	366.1	370.6	380.3	374.5	359.7
57.5°	318.7	316.8	318.7	320.0	320.6	322.5	332.2	340.5	346.3	346.9	328.9
60°	281.5	278.9	281.5	287.3	288.6	289.8	298.8	306.6	311.6	313.5	295.0
62.5°	248.8	244.3	248.8	252.6	255.2	258.5	264.9	276.4	280.8	281.5	255.2
65°	214.2	212.3	214.2	221.8	222.5	226.3	233.4	241.7	251.4	250.1	212.3
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.7	219.9	177.0
70°	153.9	153.3	153.9	157.8	160.4	164.8	173.2	177.7	187.2	190.5	143.6
72.5°	126.3	125.6	126.3	129.6	132.1	136.0	143.0	148.1	156.4	160.4	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.7	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	86.0	88.5	94.9	99.4	103.3	60.9
80°	58.3	57.8	58.3	59.0	59.0	61.6	66.1	70.6	74.4	74.4	41.7
82.5°	41.0	39.8	41.0	41.0	41.0	42.4	44.8	46.2	48.8	50.7	26.3
85°	25.6	25.6	25.6	26.3	25.6	27.0	27.5	28.9	28.9	27.5	16.1
87.5°	16.6	16.1	16.6	16.1	16.1	15.4	15.4	15.4	14.7	14.2	9.0
90°	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9	8.7	5.5
92.5°	30.0	24.0	30.0	36.0	37.5	53.1	73.9	84.3	74.0	53.5	38.1
95°	104.5	86.5	104.5	122.6	127.1	166.9	219.9	246.5	208.2	131.6	74.1
97.5°	250.5	216.2	250.5	284.8	293.5	318.6	352.2	368.9	305.0	177.2	81.4
100°	361.0	320.0	361.0	401.9	412.1	410.3	407.8	406.6	335.6	193.8	87.5
102.5°	469.6	434.6	469.6	504.6	513.4	481.3	438.6	417.2	345.3	201.5	93.6
105°	608.1	589.3	608.1	627.0	631.7	559.8	463.9	416.0	346.4	207.1	102.7
107.5°	698.8	703.4	698.8	694.3	693.1	592.9	459.3	392.4	331.0	208.2	116.1
110°	733.4	753.0	733.4	713.8	708.9	596.9	447.4	372.7	317.4	206.6	123.5



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	736.6	766.7	736.6	706.4	698.9	584.1	431.2	354.7	305.4	206.6	132.6
115°	717.0	758.7	717.0	675.2	664.7	554.2	406.9	333.2	291.6	208.5	146.2
117.5°	675.6	721.9	675.6	629.2	617.6	517.9	385.0	318.5	283.1	212.5	159.4
120°	642.2	687.2	642.2	597.2	586.0	494.8	373.3	312.6	280.3	215.6	167.1
122.5°	609.8	654.1	609.8	565.3	554.2	472.2	362.7	308.0	278.7	220.1	176.2
125°	563.3	604.2	563.3	522.5	512.2	442.5	349.6	303.1	277.5	226.2	187.8
127.5°	521.6	556.1	521.6	487.1	478.5	418.6	338.9	299.0	276.8	232.4	199.1
130°	497.1	529.0	497.1	465.2	457.3	404.0	332.9	297.4	277.2	236.8	206.5
132.5°	474.7	503.3	474.7	446.3	439.1	391.4	327.8	296.0	277.5	240.5	212.7
135°	444.2	468.8	444.2	419.6	413.5	373.5	320.2	293.6	277.2	244.4	219.7
137.5°	419.7	439.8	419.7	399.6	394.5	360.8	315.7	293.3	278.9	250.3	228.8
140°	402.9	421.8	402.9	384.1	379.4	350.3	311.3	291.8	279.2	253.9	234.9
142.5°	389.0	405.2	389.0	372.7	368.7	343.1	308.9	291.8	280.2	256.9	239.4
145°	368.1	380.4	368.1	355.8	352.7	331.8	303.9	289.9	280.3	260.8	246.3
147.5°	352.1	362.2	352.1	341.9	339.4	322.9	300.9	289.9	282.2	266.7	255.0
150°	342.0	350.3	342.0	333.8	331.7	317.7	299.2	289.9	283.1	269.6	259.5
152.5°	333.3	339.5	333.3	327.1	325.6	313.7	297.9	289.9	283.8	271.7	262.5
155°	323.5	327.6	323.5	319.4	318.3	308.9	296.2	289.9	285.2	276.0	269.0
157.5°	315.6	318.5	315.6	312.8	312.0	304.6	294.8	289.9	286.7	280.3	275.5
160°	311.0	312.6	311.0	309.2	308.9	302.5	294.1	289.9	287.3	282.3	278.4
162.5°	307.9	309.4	307.9	306.3	305.9	300.5	293.5	289.9	288.1	284.4	281.6
165°	303.4	305.1	303.4	301.7	301.3	297.5	292.4	289.9	289.1	287.4	286.2
167.5°	300.2	300.9	300.2	299.6	299.4	296.9	293.6	291.8	291.2	289.7	288.7
170°	299.4	299.4	299.4	299.4	299.4	296.9	293.6	291.8	291.8	291.7	291.6
172.5°	297.0	296.4	297.0	297.6	297.8	295.8	293.2	291.8	291.8	291.8	291.8
175°	295.7	295.7	295.7	295.7	295.7	294.4	292.7	291.8	292.2	293.1	293.6
177.5°	294.4	293.6	294.4	295.1	295.3	294.3	293.0	292.3	292.6	293.2	293.6
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	687.4	683.6	683.6	677.2	674.6	672.7	669.5	659.9	657.3	654.7	658.6
5°	693.2	686.2	681.0	669.5	659.9	656.0	643.8	620.8	605.4	593.8	587.4
7.5°	694.5	685.5	675.9	658.0	634.8	624.6	587.4	545.1	533.6	523.3	516.8
10°	693.2	682.9	669.5	642.6	588.1	570.1	532.9	505.3	498.3	496.4	498.3
12.5°	688.7	679.1	660.5	615.6	539.3	527.1	505.3	489.3	488.0	491.2	508.5
15°	681.0	672.0	650.2	579.7	512.4	503.4	488.0	482.2	489.3	511.8	563.7
17.5°	673.4	663.1	636.2	544.5	491.9	485.5	474.6	486.1	525.8	556.0	573.3
20°	663.1	650.9	620.1	518.8	477.1	471.3	466.2	518.2	548.3	559.2	568.8
22.5°	650.9	638.1	598.3	500.9	461.7	457.3	460.4	536.1	548.3	556.0	564.3
25°	634.8	623.9	572.7	486.7	449.5	444.4	456.6	534.2	541.2	543.1	559.9
27.5°	620.1	606.0	545.7	473.9	434.8	432.9	459.8	525.8	531.0	532.9	550.9
30°	602.1	581.0	515.6	460.4	419.4	418.7	460.4	515.6	514.3	519.4	537.4
32.5°	583.6	543.8	481.6	443.8	404.7	404.0	455.9	500.2	498.9	505.9	519.4
35°	566.3	514.9	435.5	424.5	386.0	386.7	445.0	482.2	482.9	489.3	497.6
37.5°	548.3	490.0	384.8	403.3	368.1	368.1	430.3	465.6	464.3	466.2	477.7
40°	527.1	450.8	339.8	375.8	351.4	349.5	412.3	447.6	443.1	442.5	458.5
42.5°	504.7	407.8	306.6	339.3	332.2	329.6	390.5	425.8	417.5	419.4	439.9
45°	480.3	396.3	280.8	286.7	312.3	310.4	366.8	400.8	395.0	400.2	421.3
47.5°	455.9	373.2	272.5	237.9	291.2	290.5	340.5	376.5	373.2	378.4	400.8
50°	422.6	347.6	271.9	204.0	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.6	316.1	246.9	184.6	239.8	247.6	281.5	332.2	333.4	337.9	359.1
55°	340.5	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	236.0	225.1	152.6	177.0	193.1	230.8	290.5	291.7	295.7	314.2
60°	266.1	170.6	206.5	134.1	150.7	162.8	209.0	266.1	270.6	273.2	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.5	191.1	243.1	248.8	250.7	260.4
65°	158.4	103.8	159.0	110.3	124.4	125.1	171.8	219.4	224.4	227.7	234.7
67.5°	107.1	84.6	121.2	100.0	114.2	114.7	153.3	191.7	198.8	201.4	205.9
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.8	173.2	175.1	177.7
72.5°	54.5	45.5	74.4	80.1	90.5	91.7	112.8	138.6	145.0	146.9	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.4	112.8	117.3	118.7	119.2
77.5°	33.4	44.8	44.3	56.4	62.8	61.6	72.5	87.2	91.0	91.0	91.0
80°	25.1	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.2
82.5°	18.6	22.5	22.5	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.7
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.5	22.5	21.1
87.5°	7.1	5.7	3.3	5.2	7.6	7.6	9.0	9.7	9.0	9.0	9.0
90°	5.2	3.5	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9
92.5°	34.7	21.2	7.8	21.2	34.7	38.1	53.5	74.0	84.3	73.9	53.1
95°	68.0	43.4	18.9	43.4	68.0	74.1	131.6	208.2	246.5	219.9	166.9
97.5°	75.9	54.3	32.7	54.3	75.9	81.4	177.2	305.0	368.9	352.2	318.6
100°	82.6	62.9	43.3	62.9	82.6	87.5	193.8	335.6	406.6	407.8	410.3
102.5°	89.0	70.8	52.4	70.8	89.0	93.6	201.5	345.3	417.2	438.6	481.3
105°	98.8	83.3	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.8
107.5°	112.4	98.0	83.6	98.0	112.4	116.1	208.2	331.0	392.4	459.3	592.9
110°	120.3	107.2	94.2	107.2	120.3	123.5	206.6	317.4	372.7	447.4	596.9



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.5	117.0	104.6	117.0	129.5	132.6	206.6	305.4	354.7	431.2	584.1
115°	143.3	131.9	120.4	131.9	143.3	146.2	208.5	291.6	333.2	406.9	554.2
117.5°	156.8	146.4	136.0	146.4	156.8	159.4	212.5	283.1	318.5	385.0	517.9
120°	164.7	154.9	145.1	154.9	164.7	167.1	215.6	280.3	312.6	373.3	494.8
122.5°	173.7	163.9	153.9	163.9	173.7	176.2	220.1	278.7	308.0	362.7	472.2
125°	185.5	176.5	167.5	176.5	185.5	187.8	226.2	277.5	303.1	349.6	442.5
127.5°	196.8	187.7	178.5	187.7	196.8	199.1	232.4	276.8	299.0	338.9	418.6
130°	204.1	194.3	184.4	194.3	204.1	206.5	236.8	277.2	297.4	332.9	404.0
132.5°	210.2	200.4	190.6	200.4	210.2	212.7	240.5	277.5	296.0	327.8	391.4
135°	217.5	208.5	199.7	208.5	217.5	219.7	244.4	277.2	293.6	320.2	373.5
137.5°	226.6	217.7	208.9	217.7	226.6	228.8	250.3	278.9	293.3	315.7	360.8
140°	232.9	224.7	216.6	224.7	232.9	234.9	253.9	279.2	291.8	311.3	350.3
142.5°	237.5	230.1	222.5	230.1	237.5	239.4	256.9	280.2	291.8	308.9	343.1
145°	244.7	238.1	231.6	238.1	244.7	246.3	260.8	280.3	289.9	303.9	331.8
147.5°	253.4	247.1	240.7	247.1	253.4	255.0	266.7	282.2	289.9	300.9	322.9
150°	258.1	252.2	246.5	252.2	258.1	259.5	269.6	283.1	289.9	299.2	317.7
152.5°	261.4	257.0	252.6	257.0	261.4	262.5	271.7	283.8	289.9	297.9	313.7
155°	268.2	265.0	261.7	265.0	268.2	269.0	276.0	285.2	289.9	296.2	308.9
157.5°	274.7	271.6	268.4	271.6	274.7	275.5	280.3	286.7	289.9	294.8	304.6
160°	277.9	275.4	273.0	275.4	277.9	278.4	282.3	287.3	289.9	294.1	302.5
162.5°	281.1	279.3	277.5	279.3	281.1	281.6	284.4	288.1	289.9	293.5	300.5
165°	285.8	284.1	282.5	284.1	285.8	286.2	287.4	289.1	289.9	292.4	297.5
167.5°	288.5	287.7	287.0	287.7	288.5	288.7	289.7	291.2	291.8	293.6	296.9
170°	291.4	290.7	289.9	290.7	291.4	291.6	291.7	291.8	291.8	293.6	296.9
172.5°	291.8	291.6	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.2	295.8
175°	293.6	293.6	293.6	293.6	293.6	293.6	293.1	292.2	291.8	292.7	294.4
177.5°	293.6	293.6	293.6	293.6	293.6	293.6	293.2	292.6	292.3	293.0	294.3
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8	677.8
2.5°	654.1	652.2	654.7	647.7	654.7	652.2	654.1	658.6	654.7	657.3	659.9
5°	573.9	570.8	560.5	552.1	560.5	570.8	573.9	587.4	593.8	605.4	620.8
7.5°	513.0	510.4	507.9	502.8	507.9	510.4	513.0	516.8	523.3	533.6	545.1
10°	499.5	500.2	504.0	503.4	504.0	500.2	499.5	498.3	496.4	498.3	505.3
12.5°	534.2	540.0	561.1	559.9	561.1	540.0	534.2	508.5	491.2	488.0	489.3
15°	573.9	575.8	580.3	581.0	580.3	575.8	573.9	563.7	511.8	489.3	482.2
17.5°	577.8	578.4	581.7	581.7	581.7	578.4	577.8	573.3	556.0	525.8	486.1
20°	574.6	575.8	582.3	583.6	582.3	575.8	574.6	568.8	559.2	548.3	518.2
22.5°	573.3	575.8	581.0	580.3	581.0	575.8	573.3	564.3	556.0	548.3	536.1
25°	566.9	566.9	567.5	568.2	567.5	566.9	566.9	559.9	543.1	541.2	534.2
27.5°	553.4	554.7	558.5	557.9	558.5	554.7	553.4	550.9	532.9	531.0	525.8
30°	541.2	540.0	536.7	534.2	536.7	540.0	541.2	537.4	519.4	514.3	515.6
32.5°	520.7	517.5	514.3	512.4	514.3	517.5	520.7	519.4	505.9	498.9	500.2
35°	496.4	497.0	496.4	494.4	496.4	497.0	496.4	497.6	489.3	482.9	482.2
37.5°	479.1	480.3	479.6	477.1	479.6	480.3	479.1	477.7	466.2	464.3	465.6
40°	461.1	461.7	461.1	459.2	461.1	461.7	461.1	458.5	442.5	443.1	447.6
42.5°	443.8	443.1	441.2	439.9	441.2	443.1	443.8	439.9	419.4	417.5	425.8
45°	423.9	424.5	420.6	418.7	420.6	424.5	423.9	421.3	400.2	395.0	400.8
47.5°	404.0	404.0	400.8	398.8	400.8	404.0	404.0	400.8	378.4	373.2	376.5
50°	382.9	382.2	377.7	377.0	377.7	382.2	382.9	380.9	357.2	352.7	352.7
52.5°	358.5	358.5	359.1	360.4	359.1	358.5	358.5	359.1	337.9	333.4	332.2
55°	337.3	337.9	342.4	343.8	342.4	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.7	318.7	318.7	315.5	315.5	314.2	295.7	291.7	290.5
60°	290.5	291.7	294.3	293.7	294.3	291.7	290.5	289.2	273.2	270.6	266.1
62.5°	264.2	265.5	266.1	264.9	266.1	265.5	264.2	260.4	250.7	248.8	243.1
65°	236.7	237.9	238.6	237.2	238.6	237.9	236.7	234.7	227.7	224.4	219.4
67.5°	208.5	207.8	207.1	209.7	207.1	207.8	208.5	205.9	201.4	198.8	191.7
70°	179.6	179.6	178.9	180.2	178.9	179.6	179.6	177.7	175.1	173.2	166.8
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.9	145.0	138.6
75°	118.7	119.9	118.7	120.6	118.7	119.9	118.7	119.2	118.7	117.3	112.8
77.5°	90.5	91.7	90.5	90.5	90.5	91.7	90.5	91.0	91.0	91.0	87.2
80°	64.2	63.5	63.5	62.8	63.5	63.5	64.2	64.2	64.7	63.5	62.2
82.5°	41.0	40.4	40.4	41.7	40.4	40.4	41.0	41.7	40.4	40.4	40.4
85°	22.5	23.0	21.8	21.8	21.8	23.0	22.5	21.1	22.5	22.5	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.7
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9
92.5°	37.5	36.0	30.0	24.0	30.0	36.0	37.5	53.1	73.9	84.3	74.0
95°	127.1	122.6	104.5	86.5	104.5	122.6	127.1	166.9	219.9	246.5	208.2
97.5°	293.5	284.8	250.5	216.2	250.5	284.8	293.5	318.6	352.2	368.9	305.0
100°	412.1	401.9	361.0	320.0	361.0	401.9	412.1	410.3	407.8	406.6	335.6
102.5°	513.4	504.6	469.6	434.6	469.6	504.6	513.4	481.3	438.6	417.2	345.3
105°	631.7	627.0	608.1	589.3	608.1	627.0	631.7	559.8	463.9	416.0	346.4
107.5°	693.1	694.3	698.8	703.4	698.8	694.3	693.1	592.9	459.3	392.4	331.0
110°	708.9	713.8	733.4	753.0	733.4	713.8	708.9	596.9	447.4	372.7	317.4



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	698.9	706.4	736.6	766.7	736.6	706.4	698.9	584.1	431.2	354.7	305.4
115°	664.7	675.2	717.0	758.7	717.0	675.2	664.7	554.2	406.9	333.2	291.6
117.5°	617.6	629.2	675.6	721.9	675.6	629.2	617.6	517.9	385.0	318.5	283.1
120°	586.0	597.2	642.2	687.2	642.2	597.2	586.0	494.8	373.3	312.6	280.3
122.5°	554.2	565.3	609.8	654.1	609.8	565.3	554.2	472.2	362.7	308.0	278.7
125°	512.2	522.5	563.3	604.2	563.3	522.5	512.2	442.5	349.6	303.1	277.5
127.5°	478.5	487.1	521.6	556.1	521.6	487.1	478.5	418.6	338.9	299.0	276.8
130°	457.3	465.2	497.1	529.0	497.1	465.2	457.3	404.0	332.9	297.4	277.2
132.5°	439.1	446.3	474.7	503.3	474.7	446.3	439.1	391.4	327.8	296.0	277.5
135°	413.5	419.6	444.2	468.8	444.2	419.6	413.5	373.5	320.2	293.6	277.2
137.5°	394.5	399.6	419.7	439.8	419.7	399.6	394.5	360.8	315.7	293.3	278.9
140°	379.4	384.1	402.9	421.8	402.9	384.1	379.4	350.3	311.3	291.8	279.2
142.5°	368.7	372.7	389.0	405.2	389.0	372.7	368.7	343.1	308.9	291.8	280.2
145°	352.7	355.8	368.1	380.4	368.1	355.8	352.7	331.8	303.9	289.9	280.3
147.5°	339.4	341.9	352.1	362.2	352.1	341.9	339.4	322.9	300.9	289.9	282.2
150°	331.7	333.8	342.0	350.3	342.0	333.8	331.7	317.7	299.2	289.9	283.1
152.5°	325.6	327.1	333.3	339.5	333.3	327.1	325.6	313.7	297.9	289.9	283.8
155°	318.3	319.4	323.5	327.6	323.5	319.4	318.3	308.9	296.2	289.9	285.2
157.5°	312.0	312.8	315.6	318.5	315.6	312.8	312.0	304.6	294.8	289.9	286.7
160°	308.9	309.2	311.0	312.6	311.0	309.2	308.9	302.5	294.1	289.9	287.3
162.5°	305.9	306.3	307.9	309.4	307.9	306.3	305.9	300.5	293.5	289.9	288.1
165°	301.3	301.7	303.4	305.1	303.4	301.7	301.3	297.5	292.4	289.9	289.1
167.5°	299.4	299.6	300.2	300.9	300.2	299.6	299.4	296.9	293.6	291.8	291.2
170°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	296.9	293.6	291.8	291.8
172.5°	297.8	297.6	297.0	296.4	297.0	297.6	297.8	295.8	293.2	291.8	291.8
175°	295.7	295.7	295.7	295.7	295.7	295.7	295.7	294.4	292.7	291.8	292.2
177.5°	295.3	295.1	294.4	293.6	294.4	295.1	295.3	294.3	293.0	292.3	292.6
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.8	677.8	677.8	677.8	677.8
2.5°	669.5	672.7	674.6	677.2	683.6
5°	643.8	656.0	659.9	669.5	681.0
7.5°	587.4	624.6	634.8	658.0	675.9
10°	532.9	570.1	588.1	642.6	669.5
12.5°	505.3	527.1	539.3	615.6	660.5
15°	488.0	503.4	512.4	579.7	650.2
17.5°	474.6	485.5	491.9	544.5	636.2
20°	466.2	471.3	477.1	518.8	620.1
22.5°	460.4	457.3	461.7	500.9	598.3
25°	456.6	444.4	449.5	486.7	572.7
27.5°	459.8	432.9	434.8	473.9	545.7
30°	460.4	418.7	419.4	460.4	515.6
32.5°	455.9	404.0	404.7	443.8	481.6
35°	445.0	386.7	386.0	424.5	435.5
37.5°	430.3	368.1	368.1	403.3	384.8
40°	412.3	349.5	351.4	375.8	339.8
42.5°	390.5	329.6	332.2	339.3	306.6
45°	366.8	310.4	312.3	286.7	280.8
47.5°	340.5	290.5	291.2	237.9	272.5
50°	309.1	269.9	267.4	204.0	271.9
52.5°	281.5	247.6	239.8	184.6	246.9
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.1	177.0	152.6	225.1
60°	209.0	162.8	150.7	134.1	206.5
62.5°	191.1	140.5	137.9	121.2	187.2
65°	171.8	125.1	124.4	110.3	159.0
67.5°	153.3	114.7	114.2	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.5	80.1	74.4
75°	92.4	77.5	77.0	69.9	60.2
77.5°	72.5	61.6	62.8	56.4	44.3
80°	51.9	44.8	46.2	40.4	33.4
82.5°	34.6	29.5	30.8	25.6	22.5
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.3
90°	8.7	5.5	5.2	3.5	2.0
92.5°	53.5	38.1	34.7	21.2	7.8
95°	131.6	74.1	68.0	43.4	18.9
97.5°	177.2	81.4	75.9	54.3	32.7
100°	193.8	87.5	82.6	62.9	43.3
102.5°	201.5	93.6	89.0	70.8	52.4
105°	207.1	102.7	98.8	83.3	67.8
107.5°	208.2	116.1	112.4	98.0	83.6
110°	206.6	123.5	120.3	107.2	94.2



TEST NUMBER: P934236

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	206.6	132.6	129.5	117.0	104.6
115°	208.5	146.2	143.3	131.9	120.4
117.5°	212.5	159.4	156.8	146.4	136.0
120°	215.6	167.1	164.7	154.9	145.1
122.5°	220.1	176.2	173.7	163.9	153.9
125°	226.2	187.8	185.5	176.5	167.5
127.5°	232.4	199.1	196.8	187.7	178.5
130°	236.8	206.5	204.1	194.3	184.4
132.5°	240.5	212.7	210.2	200.4	190.6
135°	244.4	219.7	217.5	208.5	199.7
137.5°	250.3	228.8	226.6	217.7	208.9
140°	253.9	234.9	232.9	224.7	216.6
142.5°	256.9	239.4	237.5	230.1	222.5
145°	260.8	246.3	244.7	238.1	231.6
147.5°	266.7	255.0	253.4	247.1	240.7
150°	269.6	259.5	258.1	252.2	246.5
152.5°	271.7	262.5	261.4	257.0	252.6
155°	276.0	269.0	268.2	265.0	261.7
157.5°	280.3	275.5	274.7	271.6	268.4
160°	282.3	278.4	277.9	275.4	273.0
162.5°	284.4	281.6	281.1	279.3	277.5
165°	287.4	286.2	285.8	284.1	282.5
167.5°	289.7	288.7	288.5	287.7	287.0
170°	291.7	291.6	291.4	290.7	289.9
172.5°	291.8	291.8	291.8	291.6	291.4
175°	293.1	293.6	293.6	293.6	293.6
177.5°	293.2	293.6	293.6	293.6	293.6
180°	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934236
 CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-6500K

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	11.00	11.84	11.97	12.83	14.13	13.79	14.64	14.77	15.63	16.92
	3H	11.47	12.23	12.46	13.22	14.55	15.13	15.88	16.11	16.88	18.20
	4H	11.66	12.38	12.66	13.38	14.71	15.56	16.28	16.56	17.28	18.61
	6H	11.78	12.44	12.79	13.44	14.79	15.84	16.50	16.85	17.50	18.85
	8H	11.78	12.41	12.80	13.43	14.77	15.91	16.54	16.93	17.56	18.90
	12H	11.75	12.35	12.77	13.36	14.73	15.94	16.54	16.96	17.56	18.92
4H	2H	12.02	12.73	13.02	13.73	15.06	14.20	14.92	15.21	15.92	17.25
	3H	13.04	13.64	14.06	14.67	16.01	15.70	16.29	16.71	17.32	18.67
	4H	13.32	13.86	14.34	14.89	16.25	16.22	16.76	17.24	17.78	19.15
	6H	13.44	13.91	14.48	14.96	16.32	16.57	17.04	17.61	18.09	19.45
	8H	13.45	13.89	14.48	14.93	16.30	16.67	17.11	17.71	18.15	19.53
	12H	13.42	13.81	14.47	14.86	16.25	16.73	17.12	17.78	18.17	19.56
8H	4H	13.77	14.20	14.80	15.24	16.62	16.34	16.78	17.37	17.82	19.19
	6H	14.03	14.39	15.08	15.47	16.84	16.77	17.13	17.83	18.21	19.59
	8H	14.07	14.39	15.13	15.45	16.85	16.92	17.23	17.98	18.30	19.69
	12H	14.05	14.33	15.12	15.39	16.83	17.01	17.29	18.08	18.35	19.78
12H	4H	13.77	14.17	14.82	15.22	16.60	16.30	16.70	17.36	17.75	19.14
	6H	14.09	14.41	15.15	15.47	16.86	16.77	17.08	17.83	18.15	19.54
	8H	14.15	14.43	15.22	15.49	16.93	16.92	17.20	17.99	18.26	19.70