

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: P934282

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934282
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-B2750-1D-UNV-W2A-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

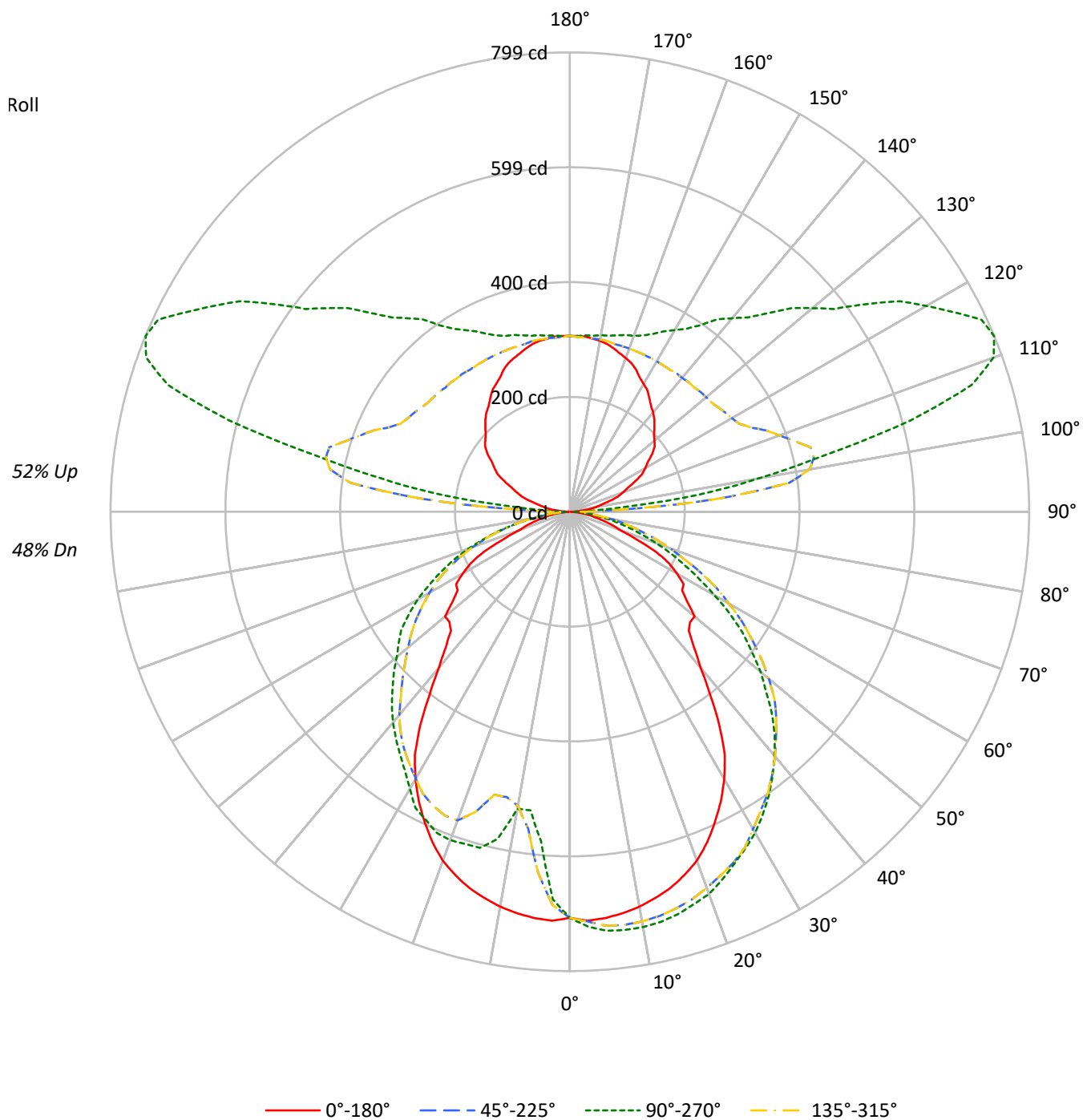
Lumens per Lamp: N/A
Luminaire Lumens: 3814.7 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

Luminous Intensity Polar Plot



TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6552	6552	6552	6552
5°	6593	6614	6593	5200
10°	6542	6515	6542	4658
15°	6463	6374	6463	5322
20°	6321	6206	6321	5333
25°	6037	5962	6037	5220
30°	5672	5760	5672	4973
35°	5050	5504	5050	4699
40°	4200	5203	4200	4494
45°	3745	4850	3745	4255
50°	3971	4429	3971	4018
55°	3724	3975	3724	3882
60°	3826	3375	3826	3555
65°	3451	2791	3451	3119
70°	2374	2225	2374	2615
75°	2056	1645	2056	1969
80°	1629	1088	1629	1182
85°	886	575	886	489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5752 cd/sqm

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CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.7
10°-20°	181.0	4.7
20°-30°	279.7	7.3
30°-40°	333.9	8.8
40°-50°	335.9	8.8
50°-60°	292.3	7.7
60°-70°	207.2	5.4
70°-80°	109.6	2.9
80°-90°	28.5	0.7
90°-100°	149.1	3.9
100°-110°	392.0	10.3
110°-120°	406.4	10.7
120°-130°	326.0	8.5
130°-140°	255.8	6.7
140°-150°	196.3	5.1
150°-160°	141.4	3.7
160°-170°	86.5	2.3
170°-180°	29.2	0.8
0°-30°	524.4	13.7
0°-40°	858.3	22.5
0°-60°	1486.5	39.0
0°-90°	1831.8	48.0
90°-120°	947.5	24.8
90°-150°	1725.7	45.2
90°-180°	1983.0	52.0
0°-180°	3814.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	706	706	706	706	706	
5°	709	732	709	575	709	67
15°	677	725	677	605	677	191
25°	596	676	596	592	596	274
35°	454	603	454	515	454	281
45°	292	497	292	436	292	234
55°	238	367	238	358	238	219
65°	166	221	166	247	166	158
75°	63	105	63	126	63	66
85°	11	27	11	23	11	14
90°	2	8	2	8	2	2
95°	20	90	20	90	20	22
105°	71	614	71	614	71	75
115°	125	790	125	790	125	124
125°	174	629	174	629	174	155
135°	208	488	208	488	208	161
145°	241	396	241	396	241	151
155°	273	341	273	341	273	125
165°	294	318	294	318	294	83
175°	306	308	306	308	306	29
180°	306	306	306	306	306	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	712.0	712.0	716.0	717.4	717.4	715.4	713.4	715.4	721.4	723.4	722.7
5°	709.4	714.7	722.1	723.4	724.8	724.1	722.7	724.1	730.8	732.1	732.8
7.5°	704.1	714.0	723.4	725.4	727.4	725.4	724.8	726.1	732.8	734.1	734.1
10°	697.4	711.3	722.1	723.4	725.4	723.4	723.4	726.1	732.8	734.1	734.7
12.5°	688.0	707.4	717.4	718.7	721.4	720.7	720.1	722.7	729.5	730.8	730.8
15°	677.3	700.0	709.4	710.7	715.4	714.0	714.0	716.7	724.1	726.1	725.4
17.5°	662.6	690.7	701.4	703.4	706.8	706.1	706.8	709.4	716.0	717.4	718.1
20°	645.9	678.0	690.7	692.7	696.0	696.0	696.0	699.4	706.1	708.8	708.8
22.5°	623.2	664.6	678.0	679.4	683.4	683.4	684.7	689.3	695.3	696.0	696.0
25°	596.5	649.9	661.2	665.3	669.3	671.3	673.3	676.0	678.0	677.3	678.0
27.5°	568.4	631.3	645.9	648.6	654.0	656.0	658.7	659.3	659.9	661.9	660.6
30°	537.0	605.2	627.2	629.9	638.5	639.9	637.2	638.5	641.9	643.2	644.6
32.5°	501.7	566.4	607.9	613.8	621.9	617.9	617.2	619.2	624.6	624.6	625.9
35°	453.6	536.3	589.8	595.2	601.2	596.5	599.2	599.8	603.2	605.2	604.5
37.5°	400.8	510.4	571.1	575.1	579.8	573.8	577.8	579.8	582.5	581.2	581.2
40°	354.0	469.6	549.1	551.8	555.8	551.1	555.1	556.5	557.8	556.5	555.8
42.5°	319.3	424.8	525.7	529.1	526.4	529.7	531.1	533.8	531.7	529.1	529.1
45°	292.5	412.8	500.3	504.3	500.3	505.7	507.7	507.7	501.7	500.3	499.6
47.5°	283.9	388.7	474.9	474.9	472.9	479.6	483.0	478.3	472.3	470.2	470.2
50°	283.3	362.0	440.2	437.5	446.9	454.9	451.6	446.9	442.2	434.9	434.9
52.5°	257.2	329.3	395.4	405.5	420.1	424.8	419.5	414.8	406.8	403.5	400.8
55°	238.4	295.2	354.7	374.7	390.1	396.1	386.0	381.4	369.4	367.4	366.0
57.5°	234.5	245.8	317.3	342.6	361.3	360.8	354.7	346.0	336.0	334.0	333.4
60°	215.1	177.7	277.2	307.3	326.6	324.6	319.3	311.2	301.9	300.6	299.3
62.5°	195.0	128.9	231.8	265.8	293.2	292.5	287.9	275.9	269.2	265.8	263.1
65°	165.6	108.2	165.0	221.1	260.6	261.8	251.8	243.1	235.8	231.8	231.1
67.5°	126.3	88.1	111.6	184.4	229.1	227.8	215.1	211.1	201.7	199.7	195.7
70°	93.5	58.8	77.5	149.6	198.4	195.0	185.1	180.4	171.7	167.0	164.3
72.5°	77.5	47.4	56.8	116.2	167.0	162.9	154.3	149.0	141.6	137.6	135.0
75°	62.7	50.1	43.4	86.2	135.6	133.0	124.9	119.5	113.5	108.2	108.9
77.5°	46.1	46.7	34.8	63.4	107.6	103.6	98.9	92.2	89.5	84.2	84.2
80°	34.8	36.8	26.1	43.4	77.5	77.5	73.5	68.8	64.1	61.5	61.5
82.5°	23.4	23.4	19.3	27.4	52.8	50.8	48.1	46.7	44.1	42.7	42.7
85°	10.7	13.3	12.1	16.7	28.7	30.1	30.1	28.7	28.1	26.7	27.4
87.5°	3.4	6.0	7.4	9.4	14.7	15.3	16.0	16.0	16.0	16.7	16.7
90°	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4	7.8	7.8
92.5°	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3	39.0	37.4
95°	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8	132.4	127.7
97.5°	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9	305.7	296.7
100°	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4	429.3	418.6
102.5°	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4	534.8	525.6
105°	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1	658.0	653.1
107.5°	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6	722.0	723.2
110°	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7	738.4	743.5

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5	728.0	735.8
115°	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3	692.4	703.3
117.5°	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4	643.3	655.4
120°	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4	610.3	622.1
122.5°	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8	577.3	588.8
125°	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9	533.6	544.2
127.5°	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0	498.4	507.4
130°	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8	476.3	484.6
132.5°	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7	457.4	464.8
135°	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0	430.7	437.0
137.5°	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8	410.9	416.2
140°	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8	395.2	400.1
142.5°	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4	384.1	388.2
145°	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6	367.4	370.6
147.5°	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3	353.5	356.2
150°	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0	345.5	347.7
152.5°	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8	339.1	340.7
155°	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7	331.6	332.7
157.5°	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3	325.0	325.8
160°	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1	321.7	322.1
162.5°	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0	318.6	319.0
165°	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9	313.8	314.2
167.5°	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3	311.8	312.0
170°	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3	311.8	311.8
172.5°	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1	310.2	310.0
175°	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7	308.0	308.0
177.5°	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6	307.6	307.4
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	724.1	722.1	724.1	722.7	723.4	721.4	715.4	713.4	715.4	717.4	717.4
5°	732.8	731.5	732.8	732.8	732.1	730.8	724.1	722.7	724.1	724.8	723.4
7.5°	735.4	733.5	735.4	734.1	734.1	732.8	726.1	724.8	725.4	727.4	725.4
10°	735.4	733.5	735.4	734.7	734.1	732.8	726.1	723.4	723.4	725.4	723.4
12.5°	732.1	730.8	732.1	730.8	730.8	729.5	722.7	720.1	720.7	721.4	718.7
15°	726.8	724.8	726.8	725.4	726.1	724.1	716.7	714.0	714.0	715.4	710.7
17.5°	718.7	716.0	718.7	718.1	717.4	716.0	709.4	706.8	706.1	706.8	703.4
20°	709.4	707.4	709.4	708.8	708.8	706.1	699.4	696.0	696.0	696.0	692.7
22.5°	694.7	692.7	694.7	696.0	696.0	695.3	689.3	684.7	683.4	683.4	679.4
25°	678.0	676.0	678.0	678.0	677.3	678.0	676.0	673.3	671.3	669.3	665.3
27.5°	661.9	660.6	661.9	660.6	661.9	659.9	659.3	658.7	656.0	654.0	648.6
30°	645.9	644.6	645.9	644.6	643.2	641.9	638.5	637.2	639.9	638.5	629.9
32.5°	625.9	624.6	625.9	625.9	624.6	624.6	619.2	617.2	617.9	621.9	613.8
35°	605.2	603.2	605.2	604.5	605.2	603.2	599.8	599.2	596.5	601.2	595.2
37.5°	581.2	579.2	581.2	581.2	581.2	582.5	579.8	577.8	573.8	579.8	575.1
40°	556.5	553.8	556.5	555.8	556.5	557.8	556.5	555.1	551.1	555.8	551.8
42.5°	528.4	527.7	528.4	529.1	529.1	531.7	533.8	531.1	529.7	526.4	529.1
45°	498.3	497.0	498.3	499.6	500.3	501.7	507.7	507.7	505.7	500.3	504.3
47.5°	466.2	462.9	466.2	470.2	470.2	472.3	478.3	483.0	479.6	472.9	474.9
50°	432.2	432.9	432.2	434.9	434.9	442.2	446.9	451.6	454.9	446.9	437.5
52.5°	398.8	398.1	398.8	400.8	403.5	406.8	414.8	419.5	424.8	420.1	405.5
55°	365.3	366.7	365.3	366.0	367.4	369.4	381.4	386.0	396.1	390.1	374.7
57.5°	332.0	330.0	332.0	333.4	334.0	336.0	346.0	354.7	360.8	361.3	342.6
60°	293.2	290.5	293.2	299.3	300.6	301.9	311.2	319.3	324.6	326.6	307.3
62.5°	259.2	254.5	259.2	263.1	265.8	269.2	275.9	287.9	292.5	293.2	265.8
65°	223.1	221.1	223.1	231.1	231.8	235.8	243.1	251.8	261.8	260.6	221.1
67.5°	190.3	190.3	190.3	195.7	199.7	201.7	211.1	215.1	227.8	229.1	184.4
70°	160.4	159.7	160.4	164.3	167.0	171.7	180.4	185.1	195.0	198.4	149.6
72.5°	131.6	130.9	131.6	135.0	137.6	141.6	149.0	154.3	162.9	167.0	116.2
75°	106.2	104.9	106.2	108.9	108.2	113.5	119.5	124.9	133.0	135.6	86.2
77.5°	81.5	81.5	81.5	84.2	84.2	89.5	92.2	98.9	103.6	107.6	63.4
80°	60.8	60.2	60.8	61.5	61.5	64.1	68.8	73.5	77.5	77.5	43.4
82.5°	42.7	41.4	42.7	42.7	42.7	44.1	46.7	48.1	50.8	52.8	27.4
85°	26.7	26.7	26.7	27.4	26.7	28.1	28.7	30.1	30.1	28.7	16.7
87.5°	17.3	16.7	17.3	16.7	16.7	16.0	16.0	16.0	15.3	14.7	9.4
90°	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4	9.1	5.8
92.5°	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1	55.7	39.6
95°	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8	137.0	77.2
97.5°	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7	184.6	84.8
100°	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6	201.9	91.1
102.5°	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7	209.9	97.5
105°	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9	215.7	107.0
107.5°	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8	216.8	120.9
110°	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6	215.2	128.7

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1	215.2	138.1
115°	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8	217.2	152.3
117.5°	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9	221.3	166.0
120°	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9	224.6	174.1
122.5°	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3	229.3	183.6
125°	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0	235.7	195.6
127.5°	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3	242.0	207.4
130°	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7	246.7	215.1
132.5°	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0	250.5	221.5
135°	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7	254.6	228.9
137.5°	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5	260.8	238.3
140°	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8	264.4	244.7
142.5°	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8	267.6	249.4
145°	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9	271.7	256.6
147.5°	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9	277.8	265.6
150°	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9	280.9	270.3
152.5°	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6	283.0	273.4
155°	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1	287.4	280.2
157.5°	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6	291.9	286.9
160°	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3	294.0	290.0
162.5°	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1	296.2	293.3
165°	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1	299.4	298.1
167.5°	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3	301.8	300.7
170°	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0	303.9	303.8
172.5°	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4	305.3	305.9
177.5°	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8	305.4	305.9
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	716.0	712.0	712.0	705.4	702.7	700.7	697.4	687.3	684.7	682.0	686.0
5°	722.1	714.7	709.4	697.4	687.3	683.4	670.6	646.6	630.6	618.5	611.8
7.5°	723.4	714.0	704.1	685.3	661.2	650.6	611.8	567.8	555.8	545.1	538.3
10°	722.1	711.3	697.4	669.3	612.5	593.8	555.1	526.4	519.0	517.0	519.0
12.5°	717.4	707.4	688.0	641.2	561.7	549.1	526.4	509.7	508.4	511.6	529.7
15°	709.4	700.0	677.3	603.9	533.8	524.4	508.4	502.3	509.7	533.1	587.1
17.5°	701.4	690.7	662.6	567.1	512.3	505.7	494.3	506.4	547.7	579.2	597.2
20°	690.7	678.0	645.9	540.4	497.0	490.9	485.6	539.7	571.1	582.5	592.5
22.5°	678.0	664.6	623.2	521.7	481.0	476.3	479.6	558.5	571.1	579.2	587.8
25°	661.2	649.9	596.5	507.0	468.2	462.9	475.6	556.5	563.7	565.7	583.2
27.5°	645.9	631.3	568.4	493.6	452.9	450.9	479.0	547.7	553.1	555.1	573.8
30°	627.2	605.2	537.0	479.6	436.8	436.1	479.6	537.0	535.7	541.0	559.8
32.5°	607.9	566.4	501.7	462.2	421.5	420.8	474.9	521.0	519.7	527.0	541.0
35°	589.8	536.3	453.6	442.2	402.1	402.8	463.5	502.3	503.0	509.7	518.3
37.5°	571.1	510.4	400.8	420.1	383.5	383.5	448.2	485.0	483.7	485.6	497.6
40°	549.1	469.6	354.0	391.4	366.0	364.0	429.5	466.2	461.5	460.9	477.6
42.5°	525.7	424.8	319.3	353.4	346.0	343.3	406.8	443.5	434.9	436.8	458.3
45°	500.3	412.8	292.5	298.6	325.3	323.3	382.1	417.5	411.4	416.8	438.8
47.5°	474.9	388.7	283.9	247.8	303.3	302.6	354.7	392.1	388.7	394.1	417.5
50°	440.2	362.0	283.3	212.4	278.6	281.2	322.0	367.4	367.4	372.1	396.8
52.5°	395.4	329.3	257.2	192.3	249.8	257.9	293.2	346.0	347.3	352.0	374.1
55°	354.7	295.2	238.4	177.0	215.7	233.2	265.1	324.0	326.6	331.3	351.4
57.5°	317.3	245.8	234.5	159.0	184.4	201.1	240.4	302.6	303.9	308.0	327.3
60°	277.2	177.7	215.1	139.6	157.0	169.6	217.7	277.2	281.9	284.6	301.3
62.5°	231.8	128.9	195.0	126.3	143.6	146.3	199.1	253.2	259.2	261.2	271.2
65°	165.0	108.2	165.6	114.9	129.6	130.3	179.0	228.5	233.8	237.1	244.5
67.5°	111.6	88.1	126.3	104.2	118.9	119.5	159.7	199.7	207.1	209.8	214.4
70°	77.5	58.8	93.5	92.8	106.9	108.2	138.9	173.7	180.4	182.4	185.1
72.5°	56.8	47.4	77.5	83.5	94.2	95.5	117.5	144.3	151.0	153.0	154.3
75°	43.4	50.1	62.7	72.8	80.2	80.8	96.2	117.5	122.2	123.6	124.2
77.5°	34.8	46.7	46.1	58.8	65.4	64.1	75.5	90.8	94.8	94.8	94.8
80°	26.1	36.8	34.8	42.1	48.1	46.7	54.1	64.8	66.1	67.4	66.8
82.5°	19.3	23.4	23.4	26.7	32.1	30.8	36.1	42.1	42.1	42.1	43.4
85°	12.1	13.3	10.7	14.0	18.0	17.3	20.0	22.7	23.4	23.4	22.0
87.5°	7.4	6.0	3.4	5.4	8.0	8.0	9.4	10.1	9.4	9.4	9.4
90°	5.4	3.7	2.1	3.7	5.4	5.8	9.1	13.4	15.6	13.8	10.4
92.5°	36.2	22.1	8.2	22.1	36.2	39.6	55.7	77.1	87.8	77.0	55.3
95°	70.8	45.2	19.7	45.2	70.8	77.2	137.0	216.8	256.8	229.1	173.8
97.5°	79.1	56.6	34.1	56.6	79.1	84.8	184.6	317.7	384.3	366.8	331.9
100°	86.1	65.5	45.1	65.5	86.1	91.1	201.9	349.6	423.5	424.8	427.4
102.5°	92.7	73.7	54.6	73.7	92.7	97.5	209.9	359.7	434.6	456.9	501.4
105°	102.9	86.8	70.6	86.8	102.9	107.0	215.7	360.9	433.4	483.3	583.1
107.5°	117.1	102.1	87.1	102.1	117.1	120.9	216.8	344.8	408.8	478.4	617.6
110°	125.3	111.7	98.1	111.7	125.3	128.7	215.2	330.6	388.2	466.0	621.7

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	134.9	121.9	109.0	121.9	134.9	138.1	215.2	318.1	369.5	449.2	608.5
115°	149.3	137.3	125.4	137.3	149.3	152.3	217.2	303.8	347.1	423.8	577.3
117.5°	163.3	152.5	141.6	152.5	163.3	166.0	221.3	294.9	331.8	401.0	539.4
120°	171.5	161.4	151.1	161.4	171.5	174.1	224.6	291.9	325.6	388.8	515.4
122.5°	181.0	170.7	160.4	170.7	181.0	183.6	229.3	290.3	320.8	377.8	491.8
125°	193.2	183.9	174.5	183.9	193.2	195.6	235.7	289.0	315.7	364.1	460.9
127.5°	205.0	195.5	186.0	195.5	205.0	207.4	242.0	288.3	311.4	353.0	436.0
130°	212.5	202.4	192.1	202.4	212.5	215.1	246.7	288.7	309.8	346.8	420.8
132.5°	218.9	208.8	198.5	208.8	218.9	221.5	250.5	289.0	308.4	341.4	407.7
135°	226.6	217.2	208.0	217.2	226.6	228.9	254.6	288.7	305.9	333.6	389.0
137.5°	236.1	226.8	217.6	226.8	236.1	238.3	260.8	290.5	305.5	328.9	375.8
140°	242.6	234.1	225.6	234.1	242.6	244.7	264.4	290.8	304.0	324.3	364.8
142.5°	247.4	239.6	231.8	239.6	247.4	249.4	267.6	291.8	304.0	321.8	357.4
145°	254.9	248.0	241.2	248.0	254.9	256.6	271.7	291.9	302.0	316.5	345.6
147.5°	263.9	257.4	250.7	257.4	263.9	265.6	277.8	293.9	302.0	313.4	336.3
150°	268.8	262.7	256.8	262.7	268.8	270.3	280.9	294.9	302.0	311.6	331.0
152.5°	272.3	267.7	263.1	267.7	272.3	273.4	283.0	295.6	302.0	310.3	326.8
155°	279.4	276.0	272.6	276.0	279.4	280.2	287.4	297.1	302.0	308.6	321.7
157.5°	286.2	282.9	279.6	282.9	286.2	286.9	291.9	298.6	302.0	307.1	317.3
160°	289.4	286.8	284.4	286.8	289.4	290.0	294.0	299.3	302.0	306.4	315.1
162.5°	292.8	290.9	289.0	290.9	292.8	293.3	296.2	300.1	302.0	305.7	313.0
165°	297.7	295.9	294.2	295.9	297.7	298.1	299.4	301.1	302.0	304.6	309.9
167.5°	300.5	299.7	298.9	299.7	300.5	300.7	301.8	303.3	304.0	305.8	309.3
170°	303.6	302.8	302.0	302.8	303.6	303.8	303.9	304.0	304.0	305.8	309.3
172.5°	304.0	303.8	303.6	303.8	304.0	304.0	304.0	304.0	304.0	305.4	308.1
175°	305.9	305.9	305.9	305.9	305.9	305.9	305.3	304.4	304.0	304.9	306.7
177.5°	305.9	305.9	305.9	305.9	305.9	305.9	305.4	304.8	304.5	305.2	306.6
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	681.4	679.4	682.0	674.7	682.0	679.4	681.4	686.0	682.0	684.7	687.3
5°	597.8	594.5	583.9	575.1	583.9	594.5	597.8	611.8	618.5	630.6	646.6
7.5°	534.4	531.7	529.1	523.7	529.1	531.7	534.4	538.3	545.1	555.8	567.8
10°	520.3	521.0	525.0	524.4	525.0	521.0	520.3	519.0	517.0	519.0	526.4
12.5°	556.5	562.4	584.5	583.2	584.5	562.4	556.5	529.7	511.6	508.4	509.7
15°	597.8	599.8	604.5	605.2	604.5	599.8	597.8	587.1	533.1	509.7	502.3
17.5°	601.9	602.5	605.9	605.9	605.9	602.5	601.9	597.2	579.2	547.7	506.4
20°	598.5	599.8	606.6	607.9	606.6	599.8	598.5	592.5	582.5	571.1	539.7
22.5°	597.2	599.8	605.2	604.5	605.2	599.8	597.2	587.8	579.2	571.1	558.5
25°	590.5	590.5	591.1	591.8	591.1	590.5	590.5	583.2	565.7	563.7	556.5
27.5°	576.5	577.8	581.8	581.2	581.8	577.8	576.5	573.8	555.1	553.1	547.7
30°	563.7	562.4	559.1	556.5	559.1	562.4	563.7	559.8	541.0	535.7	537.0
32.5°	542.4	539.0	535.7	533.8	535.7	539.0	542.4	541.0	527.0	519.7	521.0
35°	517.0	517.7	517.0	515.0	517.0	517.7	517.0	518.3	509.7	503.0	502.3
37.5°	499.0	500.3	499.6	497.0	499.6	500.3	499.0	497.6	485.6	483.7	485.0
40°	480.3	481.0	480.3	478.3	480.3	481.0	480.3	477.6	460.9	461.5	466.2
42.5°	462.2	461.5	459.6	458.3	459.6	461.5	462.2	458.3	436.8	434.9	443.5
45°	441.5	442.2	438.1	436.1	438.1	442.2	441.5	438.8	416.8	411.4	417.5
47.5°	420.8	420.8	417.5	415.4	417.5	420.8	420.8	417.5	394.1	388.7	392.1
50°	398.8	398.1	393.4	392.7	393.4	398.1	398.8	396.8	372.1	367.4	367.4
52.5°	373.4	373.4	374.1	375.4	374.1	373.4	373.4	374.1	352.0	347.3	346.0
55°	351.4	352.0	356.7	358.1	356.7	352.0	351.4	351.4	331.3	326.6	324.0
57.5°	328.7	328.7	332.0	332.0	332.0	328.7	328.7	327.3	308.0	303.9	302.6
60°	302.6	303.9	306.6	306.0	306.6	303.9	302.6	301.3	284.6	281.9	277.2
62.5°	275.2	276.6	277.2	275.9	277.2	276.6	275.2	271.2	261.2	259.2	253.2
65°	246.5	247.8	248.5	247.1	248.5	247.8	246.5	244.5	237.1	233.8	228.5
67.5°	217.1	216.4	215.7	218.4	215.7	216.4	217.1	214.4	209.8	207.1	199.7
70°	187.0	187.0	186.4	187.7	186.4	187.0	187.0	185.1	182.4	180.4	173.7
72.5°	155.0	154.3	157.0	155.0	157.0	154.3	155.0	154.3	153.0	151.0	144.3
75°	123.6	124.9	123.6	125.6	123.6	124.9	123.6	124.2	123.6	122.2	117.5
77.5°	94.2	95.5	94.2	94.2	94.2	95.5	94.2	94.8	94.8	94.8	90.8
80°	66.8	66.1	66.1	65.4	66.1	66.1	66.8	66.8	67.4	66.1	64.8
82.5°	42.7	42.1	42.1	43.4	42.1	42.1	42.7	43.4	42.1	42.1	42.1
85°	23.4	24.0	22.7	22.7	22.7	24.0	23.4	22.0	23.4	23.4	22.7
87.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.7	9.4	9.4	9.4	10.1
90°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	10.4	13.8	15.6	13.4
92.5°	39.0	37.4	31.3	25.0	31.3	37.4	39.0	55.3	77.0	87.8	77.1
95°	132.4	127.7	108.9	90.1	108.9	127.7	132.4	173.8	229.1	256.8	216.8
97.5°	305.7	296.7	261.0	225.2	261.0	296.7	305.7	331.9	366.8	384.3	317.7
100°	429.3	418.6	376.0	333.4	376.0	418.6	429.3	427.4	424.8	423.5	349.6
102.5°	534.8	525.6	489.1	452.7	489.1	525.6	534.8	501.4	456.9	434.6	359.7
105°	658.0	653.1	633.5	613.8	633.5	653.1	658.0	583.1	483.3	433.4	360.9
107.5°	722.0	723.2	727.9	732.7	727.9	723.2	722.0	617.6	478.4	408.8	344.8
110°	738.4	743.5	763.9	784.4	763.9	743.5	738.4	621.7	466.0	388.2	330.6

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	728.0	735.8	767.2	798.6	767.2	735.8	728.0	608.5	449.2	369.5	318.1
115°	692.4	703.3	746.8	790.3	746.8	703.3	692.4	577.3	423.8	347.1	303.8
117.5°	643.3	655.4	703.7	752.0	703.7	655.4	643.3	539.4	401.0	331.8	294.9
120°	610.3	622.1	668.9	715.8	668.9	622.1	610.3	515.4	388.8	325.6	291.9
122.5°	577.3	588.8	635.1	681.4	635.1	588.8	577.3	491.8	377.8	320.8	290.3
125°	533.6	544.2	586.7	629.4	586.7	544.2	533.6	460.9	364.1	315.7	289.0
127.5°	498.4	507.4	543.3	579.3	543.3	507.4	498.4	436.0	353.0	311.4	288.3
130°	476.3	484.6	517.8	551.0	517.8	484.6	476.3	420.8	346.8	309.8	288.7
132.5°	457.4	464.8	494.5	524.3	494.5	464.8	457.4	407.7	341.4	308.4	289.0
135°	430.7	437.0	462.7	488.3	462.7	437.0	430.7	389.0	333.6	305.9	288.7
137.5°	410.9	416.2	437.1	458.2	437.1	416.2	410.9	375.8	328.9	305.5	290.5
140°	395.2	400.1	419.7	439.3	419.7	400.1	395.2	364.8	324.3	304.0	290.8
142.5°	384.1	388.2	405.2	422.1	405.2	388.2	384.1	357.4	321.8	304.0	291.8
145°	367.4	370.6	383.5	396.2	383.5	370.6	367.4	345.6	316.5	302.0	291.9
147.5°	353.5	356.2	366.7	377.3	366.7	356.2	353.5	336.3	313.4	302.0	293.9
150°	345.5	347.7	356.3	364.8	356.3	347.7	345.5	331.0	311.6	302.0	294.9
152.5°	339.1	340.7	347.2	353.7	347.2	340.7	339.1	326.8	310.3	302.0	295.6
155°	331.6	332.7	336.9	341.2	336.9	332.7	331.6	321.7	308.6	302.0	297.1
157.5°	325.0	325.8	328.8	331.8	328.8	325.8	325.0	317.3	307.1	302.0	298.6
160°	321.7	322.1	323.9	325.6	323.9	322.1	321.7	315.1	306.4	302.0	299.3
162.5°	318.6	319.0	320.7	322.3	320.7	319.0	318.6	313.0	305.7	302.0	300.1
165°	313.8	314.2	316.0	317.8	316.0	314.2	313.8	309.9	304.6	302.0	301.1
167.5°	311.8	312.0	312.7	313.4	312.7	312.0	311.8	309.3	305.8	304.0	303.3
170°	311.8	311.8	311.8	311.8	311.8	311.8	311.8	309.3	305.8	304.0	304.0
172.5°	310.2	310.0	309.4	308.8	309.4	310.0	310.2	308.1	305.4	304.0	304.0
175°	308.0	308.0	308.0	308.0	308.0	308.0	308.0	306.7	304.9	304.0	304.4
177.5°	307.6	307.4	306.7	305.9	306.7	307.4	307.6	306.6	305.2	304.5	304.8
180°	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9	305.9

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	706.1	706.1	706.1	706.1	706.1
2.5°	697.4	700.7	702.7	705.4	712.0
5°	670.6	683.4	687.3	697.4	709.4
7.5°	611.8	650.6	661.2	685.3	704.1
10°	555.1	593.8	612.5	669.3	697.4
12.5°	526.4	549.1	561.7	641.2	688.0
15°	508.4	524.4	533.8	603.9	677.3
17.5°	494.3	505.7	512.3	567.1	662.6
20°	485.6	490.9	497.0	540.4	645.9
22.5°	479.6	476.3	481.0	521.7	623.2
25°	475.6	462.9	468.2	507.0	596.5
27.5°	479.0	450.9	452.9	493.6	568.4
30°	479.6	436.1	436.8	479.6	537.0
32.5°	474.9	420.8	421.5	462.2	501.7
35°	463.5	402.8	402.1	442.2	453.6
37.5°	448.2	383.5	383.5	420.1	400.8
40°	429.5	364.0	366.0	391.4	354.0
42.5°	406.8	343.3	346.0	353.4	319.3
45°	382.1	323.3	325.3	298.6	292.5
47.5°	354.7	302.6	303.3	247.8	283.9
50°	322.0	281.2	278.6	212.4	283.3
52.5°	293.2	257.9	249.8	192.3	257.2
55°	265.1	233.2	215.7	177.0	238.4
57.5°	240.4	201.1	184.4	159.0	234.5
60°	217.7	169.6	157.0	139.6	215.1
62.5°	199.1	146.3	143.6	126.3	195.0
65°	179.0	130.3	129.6	114.9	165.6
67.5°	159.7	119.5	118.9	104.2	126.3
70°	138.9	108.2	106.9	92.8	93.5
72.5°	117.5	95.5	94.2	83.5	77.5
75°	96.2	80.8	80.2	72.8	62.7
77.5°	75.5	64.1	65.4	58.8	46.1
80°	54.1	46.7	48.1	42.1	34.8
82.5°	36.1	30.8	32.1	26.7	23.4
85°	20.0	17.3	18.0	14.0	10.7
87.5°	9.4	8.0	8.0	5.4	3.4
90°	9.1	5.8	5.4	3.7	2.1
92.5°	55.7	39.6	36.2	22.1	8.2
95°	137.0	77.2	70.8	45.2	19.7
97.5°	184.6	84.8	79.1	56.6	34.1
100°	201.9	91.1	86.1	65.5	45.1
102.5°	209.9	97.5	92.7	73.7	54.6
105°	215.7	107.0	102.9	86.8	70.6
107.5°	216.8	120.9	117.1	102.1	87.1
110°	215.2	128.7	125.3	111.7	98.1

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	215.2	138.1	134.9	121.9	109.0
115°	217.2	152.3	149.3	137.3	125.4
117.5°	221.3	166.0	163.3	152.5	141.6
120°	224.6	174.1	171.5	161.4	151.1
122.5°	229.3	183.6	181.0	170.7	160.4
125°	235.7	195.6	193.2	183.9	174.5
127.5°	242.0	207.4	205.0	195.5	186.0
130°	246.7	215.1	212.5	202.4	192.1
132.5°	250.5	221.5	218.9	208.8	198.5
135°	254.6	228.9	226.6	217.2	208.0
137.5°	260.8	238.3	236.1	226.8	217.6
140°	264.4	244.7	242.6	234.1	225.6
142.5°	267.6	249.4	247.4	239.6	231.8
145°	271.7	256.6	254.9	248.0	241.2
147.5°	277.8	265.6	263.9	257.4	250.7
150°	280.9	270.3	268.8	262.7	256.8
152.5°	283.0	273.4	272.3	267.7	263.1
155°	287.4	280.2	279.4	276.0	272.6
157.5°	291.9	286.9	286.2	282.9	279.6
160°	294.0	290.0	289.4	286.8	284.4
162.5°	296.2	293.3	292.8	290.9	289.0
165°	299.4	298.1	297.7	295.9	294.2
167.5°	301.8	300.7	300.5	299.7	298.9
170°	303.9	303.8	303.6	302.8	302.0
172.5°	304.0	304.0	304.0	303.8	303.6
175°	305.3	305.9	305.9	305.9	305.9
177.5°	305.4	305.9	305.9	305.9	305.9
180°	305.9	305.9	305.9	305.9	305.9

TEST NUMBER: P934282

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-W2A-W-4-2700K

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	11.14	11.98	12.11	12.97	14.27	13.94	14.78	14.91	15.77	17.07
	3H	11.61	12.37	12.60	13.37	14.69	15.27	16.03	16.26	17.02	18.34
	4H	11.80	12.52	12.80	13.52	14.85	15.71	16.42	16.71	17.42	18.75
	6H	11.92	12.58	12.93	13.59	14.93	15.98	16.64	16.99	17.65	18.99
	8H	11.92	12.55	12.94	13.57	14.91	16.05	16.68	17.07	17.70	19.04
	12H	11.89	12.49	12.91	13.51	14.87	16.09	16.68	17.11	17.70	19.06
4H	2H	12.16	12.88	13.17	13.88	15.21	14.35	15.06	15.35	16.06	17.39
	3H	13.19	13.78	14.20	14.81	16.15	15.84	16.44	16.85	17.47	18.81
	4H	13.46	14.01	14.48	15.03	16.39	16.36	16.91	17.38	17.93	19.29
	6H	13.59	14.06	14.62	15.10	16.46	16.72	17.19	17.75	18.23	19.59
	8H	13.59	14.03	14.62	15.07	16.44	16.82	17.26	17.85	18.29	19.67
	12H	13.56	13.95	14.61	15.01	16.39	16.87	17.26	17.92	18.32	19.70
8H	4H	13.91	14.35	14.94	15.38	16.76	16.48	16.92	17.52	17.96	19.34
	6H	14.17	14.53	15.23	15.61	16.99	16.91	17.27	17.97	18.35	19.73
	8H	14.21	14.53	15.28	15.59	16.99	17.06	17.38	18.12	18.44	19.84
	12H	14.20	14.48	15.26	15.53	16.97	17.15	17.43	18.22	18.49	19.93
12H	4H	13.91	14.31	14.96	15.36	16.74	16.45	16.84	17.50	17.90	19.28
	6H	14.23	14.55	15.29	15.61	17.01	16.91	17.23	17.97	18.29	19.69
	8H	14.29	14.57	15.36	15.63	17.07	17.06	17.34	18.13	18.40	19.84

END OF REPORT