

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: P934283

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934283
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-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

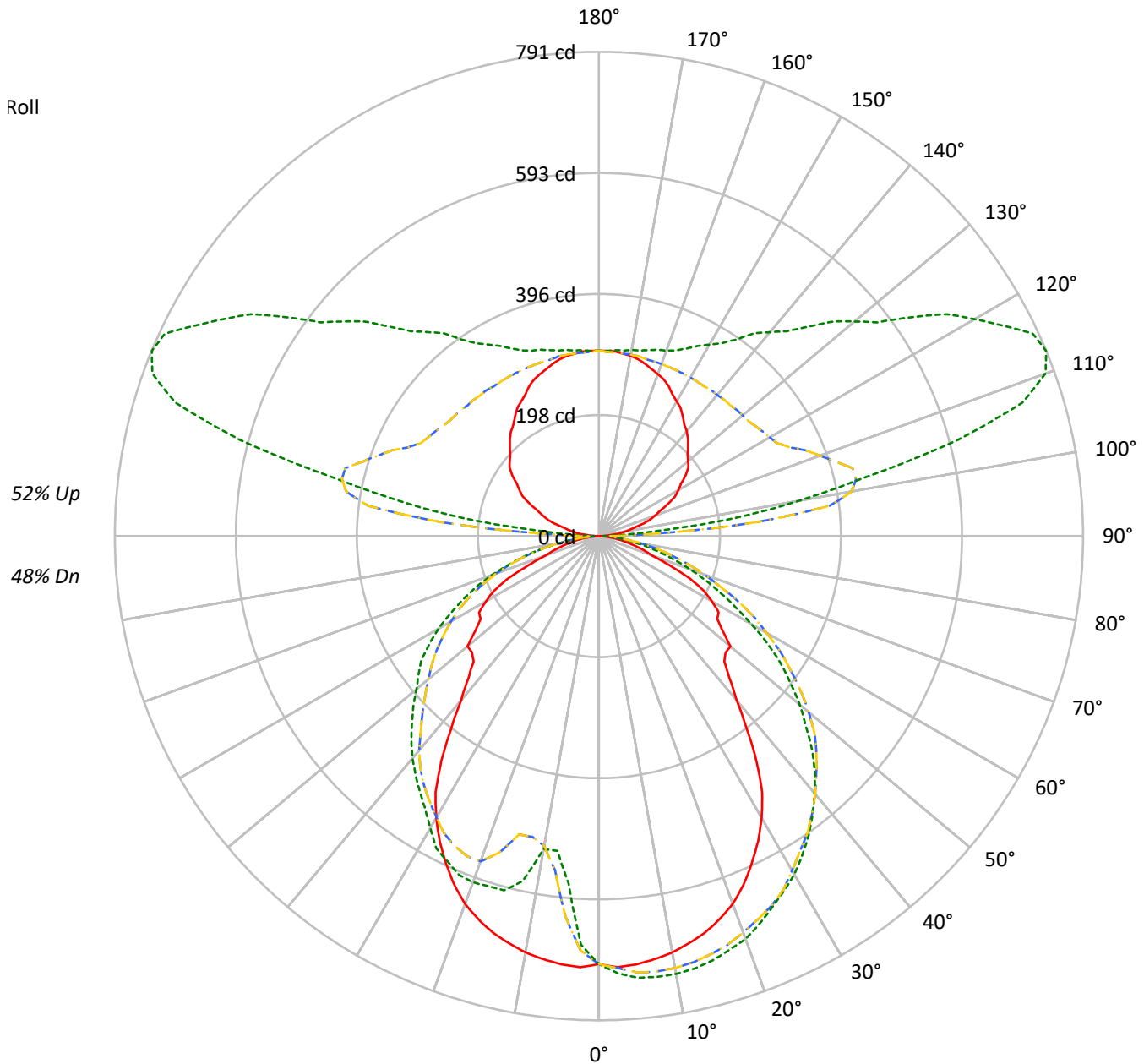
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3776.4 lumens
Efficiency: N/A
Efficacy: 133.0 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: P934283
CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



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



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6526	6547	6526	5148
10°	6477	6449	6477	4611
15°	6398	6310	6398	5269
20°	6257	6144	6257	5280
25°	5976	5903	5976	5168
30°	5616	5702	5616	4923
35°	4999	5448	4999	4653
40°	4157	5150	4157	4448
45°	3708	4801	3708	4214
50°	3931	4384	3931	3978
55°	3686	3935	3686	3843
60°	3789	3342	3789	3519
65°	3418	2763	3418	3087
70°	2351	2203	2351	2590
75°	2036	1627	2036	1949
80°	1610	1078	1610	1172
85°	878	569	878	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5694 cd/sqm



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	1.7
10°-20°	179.1	4.7
20°-30°	276.9	7.3
30°-40°	330.6	8.8
40°-50°	332.5	8.8
50°-60°	289.3	7.7
60°-70°	205.1	5.4
70°-80°	108.5	2.9
80°-90°	28.2	0.7
90°-100°	147.6	3.9
100°-110°	388.1	10.3
110°-120°	402.4	10.7
120°-130°	322.8	8.5
130°-140°	253.2	6.7
140°-150°	194.4	5.1
150°-160°	140.0	3.7
160°-170°	85.6	2.3
170°-180°	28.9	0.8
0°-30°	519.1	13.7
0°-40°	849.7	22.5
0°-60°	1471.6	39.0
0°-90°	1813.4	48.0
90°-120°	938.0	24.8
90°-150°	1708.4	45.2
90°-180°	1963.0	52.0
0°-180°	3776.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	699	699	699	699	699	
5°	702	724	702	569	702	67
15°	670	718	670	599	670	189
25°	590	669	590	586	590	271
35°	449	597	449	510	449	278
45°	290	492	290	432	290	232
55°	236	363	236	354	236	217
65°	164	219	164	245	164	157
75°	62	104	62	124	62	65
85°	11	26	11	22	11	14
90°	2	8	2	8	2	2
95°	20	89	20	89	20	22
105°	70	608	70	608	70	74
115°	124	782	124	782	124	123
125°	173	623	173	623	173	153
135°	206	483	206	483	206	159
145°	239	392	239	392	239	150
155°	270	338	270	338	270	124
165°	291	315	291	315	291	82
175°	303	305	303	305	303	29
180°	303	303	303	303	303	



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	704.9	704.9	708.8	710.2	710.2	708.2	706.3	708.2	714.2	716.1	715.4
5°	702.2	707.6	714.8	716.1	717.5	716.8	715.4	716.8	723.4	724.7	725.4
7.5°	697.0	706.9	716.1	718.1	720.1	718.1	717.5	718.8	725.4	726.7	726.7
10°	690.4	704.2	714.8	716.1	718.1	716.1	716.1	718.8	725.4	726.7	727.4
12.5°	681.1	700.3	710.2	711.5	714.2	713.5	712.9	715.4	722.1	723.4	723.4
15°	670.5	693.0	702.2	703.6	708.2	706.9	706.9	709.5	716.8	718.8	718.1
17.5°	656.0	683.8	694.3	696.3	699.7	699.0	699.7	702.2	708.8	710.2	710.9
20°	639.4	671.2	683.8	685.8	689.0	689.0	689.0	692.4	699.0	701.6	701.6
22.5°	616.9	658.0	671.2	672.6	676.5	676.5	677.8	682.4	688.3	689.0	689.0
25°	590.5	643.4	654.6	658.6	662.6	664.6	666.5	669.2	671.2	670.5	671.2
27.5°	562.7	624.9	639.4	642.1	647.4	649.4	652.0	652.6	653.3	655.3	654.0
30°	531.7	599.1	620.9	623.5	632.1	633.5	630.8	632.1	635.5	636.8	638.1
32.5°	496.6	560.7	601.8	607.7	615.7	611.7	611.0	613.0	618.3	618.3	619.6
35°	449.0	531.0	583.9	589.2	595.1	590.5	593.2	593.8	597.1	599.1	598.4
37.5°	396.8	505.2	565.4	569.3	574.0	568.0	572.0	574.0	576.6	575.3	575.3
40°	350.4	464.9	543.6	546.2	550.2	545.6	549.5	550.9	552.2	550.9	550.2
42.5°	316.1	420.5	520.4	523.8	521.1	524.4	525.7	528.4	526.3	523.8	523.8
45°	289.6	408.7	495.3	499.2	495.3	500.6	502.6	502.6	496.6	495.3	494.6
47.5°	281.0	384.8	470.1	470.1	468.2	474.8	478.1	473.5	467.6	465.5	465.5
50°	280.4	358.4	435.8	433.1	442.4	450.3	447.1	442.4	437.8	430.5	430.5
52.5°	254.6	326.0	391.4	401.4	415.9	420.5	415.3	410.7	402.7	399.4	396.8
55°	236.0	292.3	351.1	370.9	386.2	392.1	382.2	377.5	365.7	363.7	362.4
57.5°	232.1	243.3	314.1	339.2	357.7	357.1	351.1	342.5	332.6	330.6	330.0
60°	213.0	175.9	274.4	304.2	323.3	321.3	316.1	308.1	298.9	297.6	296.3
62.5°	193.1	127.6	229.4	263.2	290.3	289.6	285.1	273.1	266.5	263.2	260.5
65°	164.0	107.1	163.4	218.9	257.9	259.2	249.3	240.7	233.4	229.4	228.8
67.5°	125.0	87.3	110.4	182.5	226.8	225.5	213.0	208.9	199.7	197.7	193.7
70°	92.6	58.2	76.7	148.1	196.4	193.1	183.2	178.6	170.0	165.4	162.7
72.5°	76.7	46.9	56.2	115.1	165.4	161.3	152.7	147.5	140.2	136.3	133.6
75°	62.1	49.6	43.0	85.3	134.2	131.6	123.6	118.3	112.4	107.1	107.8
77.5°	45.7	46.2	34.4	62.8	106.5	102.5	97.9	91.3	88.6	83.3	83.3
80°	34.4	36.4	25.8	43.0	76.7	76.7	72.8	68.1	63.5	60.8	60.8
82.5°	23.2	23.2	19.1	27.1	52.3	50.3	47.6	46.2	43.7	42.3	42.3
85°	10.6	13.2	11.9	16.6	28.4	29.8	29.8	28.4	27.8	26.4	27.1
87.5°	3.4	5.9	7.3	9.3	14.6	15.2	15.9	15.9	15.9	16.6	16.6
90°	2.1	3.6	5.3	5.7	9.0	13.3	15.5	13.7	10.3	7.7	7.7
92.5°	8.1	21.9	35.8	39.2	55.1	76.3	87.0	76.2	54.7	38.7	37.1
95°	19.5	44.8	70.1	76.4	135.7	214.7	254.2	226.8	172.1	131.0	126.4
97.5°	33.7	56.0	78.3	83.9	182.7	314.5	380.4	363.1	328.5	302.6	293.7
100°	44.7	64.9	85.2	90.2	199.9	346.1	419.2	420.5	423.1	425.0	414.4
102.5°	54.0	73.0	91.8	96.5	207.8	356.0	430.2	452.3	496.4	529.4	520.3
105°	69.9	85.9	101.9	105.9	213.6	357.2	429.0	478.4	577.2	651.4	646.5
107.5°	86.2	101.1	116.0	119.7	214.7	341.4	404.7	473.6	611.4	714.8	715.9
110°	97.1	110.5	124.0	127.4	213.1	327.3	384.3	461.3	615.5	731.0	736.0



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	107.9	120.7	133.5	136.8	213.1	314.9	365.8	444.7	602.3	720.7	728.5
115°	124.1	136.0	147.8	150.8	215.0	300.7	343.6	419.5	571.5	685.5	696.2
117.5°	140.2	151.0	161.7	164.4	219.1	292.0	328.4	397.0	534.0	636.9	648.8
120°	149.6	159.7	169.8	172.4	222.3	289.0	322.3	384.9	510.3	604.2	615.9
122.5°	158.7	169.0	179.2	181.7	227.0	287.4	317.6	374.0	486.9	571.5	582.9
125°	172.7	182.0	191.3	193.7	233.3	286.1	312.6	360.5	456.3	528.2	538.8
127.5°	184.1	193.6	202.9	205.3	239.6	285.4	308.3	349.4	431.7	493.4	502.3
130°	190.2	200.4	210.4	213.0	244.2	285.8	306.6	343.3	416.6	471.5	479.7
132.5°	196.5	206.7	216.7	219.3	248.0	286.1	305.3	338.0	403.6	452.8	460.2
135°	205.9	215.0	224.3	226.6	252.0	285.8	302.8	330.2	385.1	426.3	432.7
137.5°	215.4	224.5	233.7	235.9	258.1	287.6	302.4	325.6	372.0	406.8	412.0
140°	223.3	231.7	240.2	242.3	261.8	287.9	300.9	321.0	361.2	391.2	396.1
142.5°	229.4	237.2	244.9	246.9	264.9	288.9	300.9	318.6	353.8	380.2	384.3
145°	238.8	245.5	252.3	254.0	269.0	289.0	299.0	313.4	342.1	363.7	366.9
147.5°	248.2	254.8	261.3	263.0	275.0	291.0	299.0	310.3	333.0	349.9	352.6
150°	254.2	260.1	266.1	267.6	278.1	292.0	299.0	308.5	327.6	342.0	344.2
152.5°	260.5	265.0	269.6	270.7	280.1	292.6	299.0	307.1	323.5	335.7	337.3
155°	269.9	273.2	276.6	277.4	284.6	294.1	299.0	305.5	318.5	328.2	329.3
157.5°	276.8	280.0	283.3	284.1	289.0	295.6	299.0	304.0	314.1	321.7	322.5
160°	281.5	284.0	286.5	287.1	291.1	296.3	299.0	303.3	312.0	318.5	318.9
162.5°	286.1	288.0	289.9	290.4	293.2	297.1	299.0	302.6	309.9	315.4	315.8
165°	291.3	292.9	294.7	295.1	296.4	298.1	299.0	301.5	306.7	310.7	311.1
167.5°	295.9	296.7	297.5	297.7	298.8	300.2	300.9	302.7	306.2	308.7	308.9
170°	299.0	299.7	300.5	300.7	300.8	300.9	300.9	302.7	306.2	308.7	308.7
172.5°	300.5	300.7	300.9	300.9	300.9	300.9	300.9	302.3	305.0	307.0	306.8
175°	302.8	302.8	302.8	302.8	302.2	301.3	300.9	301.8	303.6	304.9	304.9
177.5°	302.8	302.8	302.8	302.8	302.3	301.7	301.4	302.1	303.5	304.5	304.3
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	716.8	714.8	716.8	715.4	716.1	714.2	708.2	706.3	708.2	710.2	710.2
5°	725.4	724.1	725.4	725.4	724.7	723.4	716.8	715.4	716.8	717.5	716.1
7.5°	728.1	726.1	728.1	726.7	726.7	725.4	718.8	717.5	718.1	720.1	718.1
10°	728.1	726.1	728.1	727.4	726.7	725.4	718.8	716.1	716.1	718.1	716.1
12.5°	724.7	723.4	724.7	723.4	723.4	722.1	715.4	712.9	713.5	714.2	711.5
15°	719.5	717.5	719.5	718.1	718.8	716.8	709.5	706.9	706.9	708.2	703.6
17.5°	711.5	708.8	711.5	710.9	710.2	708.8	702.2	699.7	699.0	699.7	696.3
20°	702.2	700.3	702.2	701.6	701.6	699.0	692.4	689.0	689.0	689.0	685.8
22.5°	687.7	685.8	687.7	689.0	689.0	688.3	682.4	677.8	676.5	676.5	672.6
25°	671.2	669.2	671.2	671.2	670.5	671.2	669.2	666.5	664.6	662.6	658.6
27.5°	655.3	654.0	655.3	654.0	655.3	653.3	652.6	652.0	649.4	647.4	642.1
30°	639.4	638.1	639.4	638.1	636.8	635.5	632.1	630.8	633.5	632.1	623.5
32.5°	619.6	618.3	619.6	619.6	618.3	618.3	613.0	611.0	611.7	615.7	607.7
35°	599.1	597.1	599.1	598.4	599.1	597.1	593.8	593.2	590.5	595.1	589.2
37.5°	575.3	573.4	575.3	575.3	575.3	576.6	574.0	572.0	568.0	574.0	569.3
40°	550.9	548.2	550.9	550.2	550.9	552.2	550.9	549.5	545.6	550.2	546.2
42.5°	523.1	522.4	523.1	523.8	523.8	526.3	528.4	525.7	524.4	521.1	523.8
45°	493.3	492.0	493.3	494.6	495.3	496.6	502.6	502.6	500.6	495.3	499.2
47.5°	461.5	458.3	461.5	465.5	465.5	467.6	473.5	478.1	474.8	468.2	470.1
50°	427.8	428.5	427.8	430.5	430.5	437.8	442.4	447.1	450.3	442.4	433.1
52.5°	394.8	394.1	394.8	396.8	399.4	402.7	410.7	415.3	420.5	415.9	401.4
55°	361.7	363.0	361.7	362.4	363.7	365.7	377.5	382.2	392.1	386.2	370.9
57.5°	328.6	326.7	328.6	330.0	330.6	332.6	342.5	351.1	357.1	357.7	339.2
60°	290.3	287.6	290.3	296.3	297.6	298.9	308.1	316.1	321.3	323.3	304.2
62.5°	256.6	251.9	256.6	260.5	263.2	266.5	273.1	285.1	289.6	290.3	263.2
65°	220.9	218.9	220.9	228.8	229.4	233.4	240.7	249.3	259.2	257.9	218.9
67.5°	188.4	188.4	188.4	193.7	197.7	199.7	208.9	213.0	225.5	226.8	182.5
70°	158.7	158.1	158.7	162.7	165.4	170.0	178.6	183.2	193.1	196.4	148.1
72.5°	130.3	129.6	130.3	133.6	136.3	140.2	147.5	152.7	161.3	165.4	115.1
75°	105.1	103.8	105.1	107.8	107.1	112.4	118.3	123.6	131.6	134.2	85.3
77.5°	80.7	80.7	80.7	83.3	83.3	88.6	91.3	97.9	102.5	106.5	62.8
80°	60.1	59.6	60.1	60.8	60.8	63.5	68.1	72.8	76.7	76.7	43.0
82.5°	42.3	41.0	42.3	42.3	42.3	43.7	46.2	47.6	50.3	52.3	27.1
85°	26.4	26.4	26.4	27.1	26.4	27.8	28.4	29.8	29.8	28.4	16.6
87.5°	17.2	16.6	17.2	16.6	16.6	15.9	15.9	15.9	15.2	14.6	9.3
90°	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3	9.0	5.7
92.5°	31.0	24.7	31.0	37.1	38.7	54.7	76.2	87.0	76.3	55.1	39.2
95°	107.8	89.2	107.8	126.4	131.0	172.1	226.8	254.2	214.7	135.7	76.4
97.5°	258.3	222.9	258.3	293.7	302.6	328.5	363.1	380.4	314.5	182.7	83.9
100°	372.2	330.0	372.2	414.4	425.0	423.1	420.5	419.2	346.1	199.9	90.2
102.5°	484.2	448.1	484.2	520.3	529.4	496.4	452.3	430.2	356.0	207.8	96.5
105°	627.1	607.7	627.1	646.5	651.4	577.2	478.4	429.0	357.2	213.6	105.9
107.5°	720.6	725.3	720.6	715.9	714.8	611.4	473.6	404.7	341.4	214.7	119.7
110°	756.3	776.5	756.3	736.0	731.0	615.5	461.3	384.3	327.3	213.1	127.4



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	759.5	790.6	759.5	728.5	720.7	602.3	444.7	365.8	314.9	213.1	136.8
115°	739.3	782.4	739.3	696.2	685.5	571.5	419.5	343.6	300.7	215.0	150.8
117.5°	696.6	744.4	696.6	648.8	636.9	534.0	397.0	328.4	292.0	219.1	164.4
120°	662.2	708.6	662.2	615.9	604.2	510.3	384.9	322.3	289.0	222.3	172.4
122.5°	628.8	674.5	628.8	582.9	571.5	486.9	374.0	317.6	287.4	227.0	181.7
125°	580.9	623.1	580.9	538.8	528.2	456.3	360.5	312.6	286.1	233.3	193.7
127.5°	537.9	573.5	537.9	502.3	493.4	431.7	349.4	308.3	285.4	239.6	205.3
130°	512.6	545.5	512.6	479.7	471.5	416.6	343.3	306.6	285.8	244.2	213.0
132.5°	489.5	519.0	489.5	460.2	452.8	403.6	338.0	305.3	286.1	248.0	219.3
135°	458.1	483.4	458.1	432.7	426.3	385.1	330.2	302.8	285.8	252.0	226.6
137.5°	432.8	453.6	432.8	412.0	406.8	372.0	325.6	302.4	287.6	258.1	235.9
140°	415.5	434.9	415.5	396.1	391.2	361.2	321.0	300.9	287.9	261.8	242.3
142.5°	401.1	417.9	401.1	384.3	380.2	353.8	318.6	300.9	288.9	264.9	246.9
145°	379.6	392.2	379.6	366.9	363.7	342.1	313.4	299.0	289.0	269.0	254.0
147.5°	363.0	373.5	363.0	352.6	349.9	333.0	310.3	299.0	291.0	275.0	263.0
150°	352.7	361.2	352.7	344.2	342.0	327.6	308.5	299.0	292.0	278.1	267.6
152.5°	343.7	350.1	343.7	337.3	335.7	323.5	307.1	299.0	292.6	280.1	270.7
155°	333.6	337.8	333.6	329.3	328.2	318.5	305.5	299.0	294.1	284.6	277.4
157.5°	325.5	328.4	325.5	322.5	321.7	314.1	304.0	299.0	295.6	289.0	284.1
160°	320.6	322.3	320.6	318.9	318.5	312.0	303.3	299.0	296.3	291.1	287.1
162.5°	317.5	319.1	317.5	315.8	315.4	309.9	302.6	299.0	297.1	293.2	290.4
165°	312.9	314.6	312.9	311.1	310.7	306.7	301.5	299.0	298.1	296.4	295.1
167.5°	309.6	310.3	309.6	308.9	308.7	306.2	302.7	300.9	300.2	298.8	297.7
170°	308.7	308.7	308.7	308.7	308.7	306.2	302.7	300.9	300.9	300.8	300.7
172.5°	306.3	305.7	306.3	306.8	307.0	305.0	302.3	300.9	300.9	300.9	300.9
175°	304.9	304.9	304.9	304.9	304.9	303.6	301.8	300.9	301.3	302.2	302.8
177.5°	303.6	302.8	303.6	304.3	304.5	303.5	302.1	301.4	301.7	302.3	302.8
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	708.8	704.9	704.9	698.3	695.6	693.7	690.4	680.4	677.8	675.1	679.2
5°	714.8	707.6	702.2	690.4	680.4	676.5	663.9	640.1	624.2	612.3	605.7
7.5°	716.1	706.9	697.0	678.5	654.6	644.1	605.7	562.1	550.2	539.6	532.9
10°	714.8	704.2	690.4	662.6	606.4	587.9	549.5	521.1	513.8	511.8	513.8
12.5°	710.2	700.3	681.1	634.8	556.1	543.6	521.1	504.5	503.3	506.5	524.4
15°	702.2	693.0	670.5	597.8	528.4	519.1	503.3	497.2	504.5	527.7	581.2
17.5°	694.3	683.8	656.0	561.4	507.2	500.6	489.4	501.3	542.2	573.4	591.2
20°	683.8	671.2	639.4	535.0	492.0	486.0	480.8	534.3	565.4	576.6	586.6
22.5°	671.2	658.0	616.9	516.5	476.1	471.5	474.8	552.9	565.4	573.4	581.9
25°	654.6	643.4	590.5	501.9	463.5	458.3	470.8	550.9	558.1	560.0	577.3
27.5°	639.4	624.9	562.7	488.7	448.3	446.4	474.2	542.2	547.5	549.5	568.0
30°	620.9	599.1	531.7	474.8	432.5	431.8	474.8	531.7	530.4	535.6	554.1
32.5°	601.8	560.7	496.6	457.6	417.3	416.6	470.1	515.8	514.5	521.7	535.6
35°	583.9	531.0	449.0	437.8	398.0	398.7	458.9	497.2	497.9	504.5	513.1
37.5°	565.4	505.2	396.8	415.9	379.6	379.6	443.7	480.1	478.8	480.8	492.6
40°	543.6	464.9	350.4	387.5	362.4	360.4	425.2	461.5	456.9	456.3	472.8
42.5°	520.4	420.5	316.1	349.8	342.5	339.9	402.7	439.1	430.5	432.5	453.7
45°	495.3	408.7	289.6	295.6	322.0	320.1	378.2	413.3	407.3	412.6	434.4
47.5°	470.1	384.8	281.0	245.3	300.2	299.5	351.1	388.2	384.8	390.2	413.3
50°	435.8	358.4	280.4	210.3	275.8	278.3	318.8	363.7	363.7	368.4	392.8
52.5°	391.4	326.0	254.6	190.4	247.3	255.3	290.3	342.5	343.8	348.5	370.3
55°	351.1	292.3	236.0	175.2	213.6	230.8	262.5	320.7	323.3	327.9	347.9
57.5°	314.1	243.3	232.1	157.4	182.5	199.1	238.0	299.5	300.8	304.9	324.0
60°	274.4	175.9	213.0	138.2	155.4	167.9	215.5	274.4	279.0	281.7	298.3
62.5°	229.4	127.6	193.1	125.0	142.2	144.8	197.1	250.6	256.6	258.5	268.5
65°	163.4	107.1	164.0	113.8	128.3	129.0	177.2	226.2	231.4	234.8	242.1
67.5°	110.4	87.3	125.0	103.1	117.7	118.3	158.1	197.7	205.0	207.7	212.3
70°	76.7	58.2	92.6	91.9	105.8	107.1	137.5	172.0	178.6	180.5	183.2
72.5°	56.2	46.9	76.7	82.6	93.3	94.6	116.3	142.9	149.5	151.4	152.7
75°	43.0	49.6	62.1	72.1	79.4	80.0	95.2	116.3	121.0	122.4	123.0
77.5°	34.4	46.2	45.7	58.2	64.8	63.5	74.7	89.9	93.9	93.9	93.9
80°	25.8	36.4	34.4	41.7	47.6	46.2	53.5	64.2	65.5	66.8	66.2
82.5°	19.1	23.2	23.2	26.4	31.7	30.5	35.7	41.7	41.7	41.7	43.0
85°	11.9	13.2	10.6	13.9	17.8	17.2	19.8	22.5	23.2	23.2	21.8
87.5°	7.3	5.9	3.4	5.3	7.9	7.9	9.3	10.0	9.3	9.3	9.3
90°	5.3	3.6	2.1	3.6	5.3	5.7	9.0	13.3	15.5	13.7	10.3
92.5°	35.8	21.9	8.1	21.9	35.8	39.2	55.1	76.3	87.0	76.2	54.7
95°	70.1	44.8	19.5	44.8	70.1	76.4	135.7	214.7	254.2	226.8	172.1
97.5°	78.3	56.0	33.7	56.0	78.3	83.9	182.7	314.5	380.4	363.1	328.5
100°	85.2	64.9	44.7	64.9	85.2	90.2	199.9	346.1	419.2	420.5	423.1
102.5°	91.8	73.0	54.0	73.0	91.8	96.5	207.8	356.0	430.2	452.3	496.4
105°	101.9	85.9	69.9	85.9	101.9	105.9	213.6	357.2	429.0	478.4	577.2
107.5°	116.0	101.1	86.2	101.1	116.0	119.7	214.7	341.4	404.7	473.6	611.4
110°	124.0	110.5	97.1	110.5	124.0	127.4	213.1	327.3	384.3	461.3	615.5



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	133.5	120.7	107.9	120.7	133.5	136.8	213.1	314.9	365.8	444.7	602.3
115°	147.8	136.0	124.1	136.0	147.8	150.8	215.0	300.7	343.6	419.5	571.5
117.5°	161.7	151.0	140.2	151.0	161.7	164.4	219.1	292.0	328.4	397.0	534.0
120°	169.8	159.7	149.6	159.7	169.8	172.4	222.3	289.0	322.3	384.9	510.3
122.5°	179.2	169.0	158.7	169.0	179.2	181.7	227.0	287.4	317.6	374.0	486.9
125°	191.3	182.0	172.7	182.0	191.3	193.7	233.3	286.1	312.6	360.5	456.3
127.5°	202.9	193.6	184.1	193.6	202.9	205.3	239.6	285.4	308.3	349.4	431.7
130°	210.4	200.4	190.2	200.4	210.4	213.0	244.2	285.8	306.6	343.3	416.6
132.5°	216.7	206.7	196.5	206.7	216.7	219.3	248.0	286.1	305.3	338.0	403.6
135°	224.3	215.0	205.9	215.0	224.3	226.6	252.0	285.8	302.8	330.2	385.1
137.5°	233.7	224.5	215.4	224.5	233.7	235.9	258.1	287.6	302.4	325.6	372.0
140°	240.2	231.7	223.3	231.7	240.2	242.3	261.8	287.9	300.9	321.0	361.2
142.5°	244.9	237.2	229.4	237.2	244.9	246.9	264.9	288.9	300.9	318.6	353.8
145°	252.3	245.5	238.8	245.5	252.3	254.0	269.0	289.0	299.0	313.4	342.1
147.5°	261.3	254.8	248.2	254.8	261.3	263.0	275.0	291.0	299.0	310.3	333.0
150°	266.1	260.1	254.2	260.1	266.1	267.6	278.1	292.0	299.0	308.5	327.6
152.5°	269.6	265.0	260.5	265.0	269.6	270.7	280.1	292.6	299.0	307.1	323.5
155°	276.6	273.2	269.9	273.2	276.6	277.4	284.6	294.1	299.0	305.5	318.5
157.5°	283.3	280.0	276.8	280.0	283.3	284.1	289.0	295.6	299.0	304.0	314.1
160°	286.5	284.0	281.5	284.0	286.5	287.1	291.1	296.3	299.0	303.3	312.0
162.5°	289.9	288.0	286.1	288.0	289.9	290.4	293.2	297.1	299.0	302.6	309.9
165°	294.7	292.9	291.3	292.9	294.7	295.1	296.4	298.1	299.0	301.5	306.7
167.5°	297.5	296.7	295.9	296.7	297.5	297.7	298.8	300.2	300.9	302.7	306.2
170°	300.5	299.7	299.0	299.7	300.5	300.7	300.8	300.9	300.9	302.7	306.2
172.5°	300.9	300.7	300.5	300.7	300.9	300.9	300.9	300.9	300.9	302.3	305.0
175°	302.8	302.8	302.8	302.8	302.8	302.8	302.2	301.3	300.9	301.8	303.6
177.5°	302.8	302.8	302.8	302.8	302.8	302.8	302.3	301.7	301.4	302.1	303.5
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0	699.0
2.5°	674.5	672.6	675.1	667.9	675.1	672.6	674.5	679.2	675.1	677.8	680.4
5°	591.8	588.5	578.0	569.3	578.0	588.5	591.8	605.7	612.3	624.2	640.1
7.5°	529.0	526.3	523.8	518.4	523.8	526.3	529.0	532.9	539.6	550.2	562.1
10°	515.1	515.8	519.7	519.1	519.7	515.8	515.1	513.8	511.8	513.8	521.1
12.5°	550.9	556.8	578.6	577.3	578.6	556.8	550.9	524.4	506.5	503.3	504.5
15°	591.8	593.8	598.4	599.1	598.4	593.8	591.8	581.2	527.7	504.5	497.2
17.5°	595.8	596.4	599.8	599.8	599.8	596.4	595.8	591.2	573.4	542.2	501.3
20°	592.5	593.8	600.5	601.8	600.5	593.8	592.5	586.6	576.6	565.4	534.3
22.5°	591.2	593.8	599.1	598.4	599.1	593.8	591.2	581.9	573.4	565.4	552.9
25°	584.6	584.6	585.2	585.9	585.2	584.6	584.6	577.3	560.0	558.1	550.9
27.5°	570.7	572.0	575.9	575.3	575.9	572.0	570.7	568.0	549.5	547.5	542.2
30°	558.1	556.8	553.4	550.9	553.4	556.8	558.1	554.1	535.6	530.4	531.7
32.5°	537.0	533.6	530.4	528.4	530.4	533.6	537.0	535.6	521.7	514.5	515.8
35°	511.8	512.5	511.8	509.9	511.8	512.5	511.8	513.1	504.5	497.9	497.2
37.5°	494.0	495.3	494.6	492.0	494.6	495.3	494.0	492.6	480.8	478.8	480.1
40°	475.4	476.1	475.4	473.5	475.4	476.1	475.4	472.8	456.3	456.9	461.5
42.5°	457.6	456.9	454.9	453.7	454.9	456.9	457.6	453.7	432.5	430.5	439.1
45°	437.1	437.8	433.7	431.8	433.7	437.8	437.1	434.4	412.6	407.3	413.3
47.5°	416.6	416.6	413.3	411.3	413.3	416.6	416.6	413.3	390.2	384.8	388.2
50°	394.8	394.1	389.5	388.8	389.5	394.1	394.8	392.8	368.4	363.7	363.7
52.5°	369.7	369.7	370.3	371.6	370.3	369.7	369.7	370.3	348.5	343.8	342.5
55°	347.9	348.5	353.1	354.5	353.1	348.5	347.9	347.9	327.9	323.3	320.7
57.5°	325.4	325.4	328.6	328.6	328.6	325.4	325.4	324.0	304.9	300.8	299.5
60°	299.5	300.8	303.5	302.9	303.5	300.8	299.5	298.3	281.7	279.0	274.4
62.5°	272.4	273.8	274.4	273.1	274.4	273.8	272.4	268.5	258.5	256.6	250.6
65°	244.0	245.3	246.0	244.6	246.0	245.3	244.0	242.1	234.8	231.4	226.2
67.5°	214.9	214.3	213.6	216.2	213.6	214.3	214.9	212.3	207.7	205.0	197.7
70°	185.2	185.2	184.5	185.9	184.5	185.2	185.2	183.2	180.5	178.6	172.0
72.5°	153.4	152.7	155.4	153.4	155.4	152.7	153.4	152.7	151.4	149.5	142.9
75°	122.4	123.6	122.4	124.3	122.4	123.6	122.4	123.0	122.4	121.0	116.3
77.5°	93.3	94.6	93.3	93.3	93.3	94.6	93.3	93.9	93.9	93.9	89.9
80°	66.2	65.5	65.5	64.8	65.5	65.5	66.2	66.2	66.8	65.5	64.2
82.5°	42.3	41.7	41.7	43.0	41.7	41.7	42.3	43.0	41.7	41.7	41.7
85°	23.2	23.8	22.5	22.5	22.5	23.8	23.2	21.8	23.2	23.2	22.5
87.5°	8.6	7.9	7.9	7.9	7.9	7.9	8.6	9.3	9.3	9.3	10.0
90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3
92.5°	38.7	37.1	31.0	24.7	31.0	37.1	38.7	54.7	76.2	87.0	76.3
95°	131.0	126.4	107.8	89.2	107.8	126.4	131.0	172.1	226.8	254.2	214.7
97.5°	302.6	293.7	258.3	222.9	258.3	293.7	302.6	328.5	363.1	380.4	314.5
100°	425.0	414.4	372.2	330.0	372.2	414.4	425.0	423.1	420.5	419.2	346.1
102.5°	529.4	520.3	484.2	448.1	484.2	520.3	529.4	496.4	452.3	430.2	356.0
105°	651.4	646.5	627.1	607.7	627.1	646.5	651.4	577.2	478.4	429.0	357.2
107.5°	714.8	715.9	720.6	725.3	720.6	715.9	714.8	611.4	473.6	404.7	341.4
110°	731.0	736.0	756.3	776.5	756.3	736.0	731.0	615.5	461.3	384.3	327.3



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	720.7	728.5	759.5	790.6	759.5	728.5	720.7	602.3	444.7	365.8	314.9
115°	685.5	696.2	739.3	782.4	739.3	696.2	685.5	571.5	419.5	343.6	300.7
117.5°	636.9	648.8	696.6	744.4	696.6	648.8	636.9	534.0	397.0	328.4	292.0
120°	604.2	615.9	662.2	708.6	662.2	615.9	604.2	510.3	384.9	322.3	289.0
122.5°	571.5	582.9	628.8	674.5	628.8	582.9	571.5	486.9	374.0	317.6	287.4
125°	528.2	538.8	580.9	623.1	580.9	538.8	528.2	456.3	360.5	312.6	286.1
127.5°	493.4	502.3	537.9	573.5	537.9	502.3	493.4	431.7	349.4	308.3	285.4
130°	471.5	479.7	512.6	545.5	512.6	479.7	471.5	416.6	343.3	306.6	285.8
132.5°	452.8	460.2	489.5	519.0	489.5	460.2	452.8	403.6	338.0	305.3	286.1
135°	426.3	432.7	458.1	483.4	458.1	432.7	426.3	385.1	330.2	302.8	285.8
137.5°	406.8	412.0	432.8	453.6	432.8	412.0	406.8	372.0	325.6	302.4	287.6
140°	391.2	396.1	415.5	434.9	415.5	396.1	391.2	361.2	321.0	300.9	287.9
142.5°	380.2	384.3	401.1	417.9	401.1	384.3	380.2	353.8	318.6	300.9	288.9
145°	363.7	366.9	379.6	392.2	379.6	366.9	363.7	342.1	313.4	299.0	289.0
147.5°	349.9	352.6	363.0	373.5	363.0	352.6	349.9	333.0	310.3	299.0	291.0
150°	342.0	344.2	352.7	361.2	352.7	344.2	342.0	327.6	308.5	299.0	292.0
152.5°	335.7	337.3	343.7	350.1	343.7	337.3	335.7	323.5	307.1	299.0	292.6
155°	328.2	329.3	333.6	337.8	333.6	329.3	328.2	318.5	305.5	299.0	294.1
157.5°	321.7	322.5	325.5	328.4	325.5	322.5	321.7	314.1	304.0	299.0	295.6
160°	318.5	318.9	320.6	322.3	320.6	318.9	318.5	312.0	303.3	299.0	296.3
162.5°	315.4	315.8	317.5	319.1	317.5	315.8	315.4	309.9	302.6	299.0	297.1
165°	310.7	311.1	312.9	314.6	312.9	311.1	310.7	306.7	301.5	299.0	298.1
167.5°	308.7	308.9	309.6	310.3	309.6	308.9	308.7	306.2	302.7	300.9	300.2
170°	308.7	308.7	308.7	308.7	308.7	308.7	308.7	306.2	302.7	300.9	300.9
172.5°	307.0	306.8	306.3	305.7	306.3	306.8	307.0	305.0	302.3	300.9	300.9
175°	304.9	304.9	304.9	304.9	304.9	304.9	304.9	303.6	301.8	300.9	301.3
177.5°	304.5	304.3	303.6	302.8	303.6	304.3	304.5	303.5	302.1	301.4	301.7
180°	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	699.0	699.0	699.0	699.0	699.0
2.5°	690.4	693.7	695.6	698.3	704.9
5°	663.9	676.5	680.4	690.4	702.2
7.5°	605.7	644.1	654.6	678.5	697.0
10°	549.5	587.9	606.4	662.6	690.4
12.5°	521.1	543.6	556.1	634.8	681.1
15°	503.3	519.1	528.4	597.8	670.5
17.5°	489.4	500.6	507.2	561.4	656.0
20°	480.8	486.0	492.0	535.0	639.4
22.5°	474.8	471.5	476.1	516.5	616.9
25°	470.8	458.3	463.5	501.9	590.5
27.5°	474.2	446.4	448.3	488.7	562.7
30°	474.8	431.8	432.5	474.8	531.7
32.5°	470.1	416.6	417.3	457.6	496.6
35°	458.9	398.7	398.0	437.8	449.0
37.5°	443.7	379.6	379.6	415.9	396.8
40°	425.2	360.4	362.4	387.5	350.4
42.5°	402.7	339.9	342.5	349.8	316.1
45°	378.2	320.1	322.0	295.6	289.6
47.5°	351.1	299.5	300.2	245.3	281.0
50°	318.8	278.3	275.8	210.3	280.4
52.5°	290.3	255.3	247.3	190.4	254.6
55°	262.5	230.8	213.6	175.2	236.0
57.5°	238.0	199.1	182.5	157.4	232.1
60°	215.5	167.9	155.4	138.2	213.0
62.5°	197.1	144.8	142.2	125.0	193.1
65°	177.2	129.0	128.3	113.8	164.0
67.5°	158.1	118.3	117.7	103.1	125.0
70°	137.5	107.1	105.8	91.9	92.6
72.5°	116.3	94.6	93.3	82.6	76.7
75°	95.2	80.0	79.4	72.1	62.1
77.5°	74.7	63.5	64.8	58.2	45.7
80°	53.5	46.2	47.6	41.7	34.4
82.5°	35.7	30.5	31.7	26.4	23.2
85°	19.8	17.2	17.8	13.9	10.6
87.5°	9.3	7.9	7.9	5.3	3.4
90°	9.0	5.7	5.3	3.6	2.1
92.5°	55.1	39.2	35.8	21.9	8.1
95°	135.7	76.4	70.1	44.8	19.5
97.5°	182.7	83.9	78.3	56.0	33.7
100°	199.9	90.2	85.2	64.9	44.7
102.5°	207.8	96.5	91.8	73.0	54.0
105°	213.6	105.9	101.9	85.9	69.9
107.5°	214.7	119.7	116.0	101.1	86.2
110°	213.1	127.4	124.0	110.5	97.1



TEST NUMBER: P934283

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	213.1	136.8	133.5	120.7	107.9
115°	215.0	150.8	147.8	136.0	124.1
117.5°	219.1	164.4	161.7	151.0	140.2
120°	222.3	172.4	169.8	159.7	149.6
122.5°	227.0	181.7	179.2	169.0	158.7
125°	233.3	193.7	191.3	182.0	172.7
127.5°	239.6	205.3	202.9	193.6	184.1
130°	244.2	213.0	210.4	200.4	190.2
132.5°	248.0	219.3	216.7	206.7	196.5
135°	252.0	226.6	224.3	215.0	205.9
137.5°	258.1	235.9	233.7	224.5	215.4
140°	261.8	242.3	240.2	231.7	223.3
142.5°	264.9	246.9	244.9	237.2	229.4
145°	269.0	254.0	252.3	245.5	238.8
147.5°	275.0	263.0	261.3	254.8	248.2
150°	278.1	267.6	266.1	260.1	254.2
152.5°	280.1	270.7	269.6	265.0	260.5
155°	284.6	277.4	276.6	273.2	269.9
157.5°	289.0	284.1	283.3	280.0	276.8
160°	291.1	287.1	286.5	284.0	281.5
162.5°	293.2	290.4	289.9	288.0	286.1
165°	296.4	295.1	294.7	292.9	291.3
167.5°	298.8	297.7	297.5	296.7	295.9
170°	300.8	300.7	300.5	299.7	299.0
172.5°	300.9	300.9	300.9	300.7	300.5
175°	302.2	302.8	302.8	302.8	302.8
177.5°	302.3	302.8	302.8	302.8	302.8
180°	302.8	302.8	302.8	302.8	302.8



TEST NUMBER: P934283
 CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-3000K

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	11.10	11.95	12.08	12.93	14.23	13.90	14.74	14.87	15.73	17.03
	3H	11.58	12.33	12.56	13.33	14.65	15.23	15.99	16.22	16.99	18.31
	4H	11.77	12.48	12.77	13.48	14.81	15.67	16.39	16.67	17.39	18.72
	6H	11.89	12.55	12.90	13.55	14.89	15.95	16.61	16.96	17.61	18.95
	8H	11.89	12.52	12.90	13.54	14.88	16.02	16.64	17.03	17.67	19.00
	12H	11.86	12.46	12.88	13.47	14.83	16.05	16.65	17.07	17.66	19.03
4H	2H	12.13	12.84	13.13	13.84	15.17	14.31	15.03	15.31	16.03	17.35
	3H	13.15	13.75	14.16	14.78	16.12	15.80	16.40	16.82	17.43	18.77
	4H	13.43	13.97	14.45	14.99	16.36	16.32	16.87	17.35	17.89	19.26
	6H	13.55	14.02	14.58	15.06	16.43	16.68	17.15	17.71	18.19	19.56
	8H	13.56	13.99	14.59	15.03	16.41	16.78	17.22	17.82	18.26	19.64
	12H	13.52	13.92	14.57	14.97	16.35	16.83	17.23	17.88	18.28	19.66
8H	4H	13.87	14.31	14.91	15.35	16.73	16.45	16.89	17.48	17.92	19.30
	6H	14.13	14.50	15.19	15.58	16.95	16.88	17.24	17.93	18.32	19.69
	8H	14.18	14.50	15.24	15.56	16.95	17.02	17.34	18.09	18.41	19.80
	12H	14.16	14.44	15.23	15.50	16.94	17.11	17.39	18.18	18.45	19.89
12H	4H	13.88	14.27	14.93	15.33	16.71	16.41	16.81	17.46	17.86	19.24
	6H	14.19	14.51	15.26	15.58	16.97	16.87	17.19	17.94	18.26	19.65
	8H	14.26	14.54	15.33	15.60	17.03	17.03	17.31	18.10	18.37	19.80