

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: P933883

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933883
REPORT IS A COMBINATION OF REPORTS P933674 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

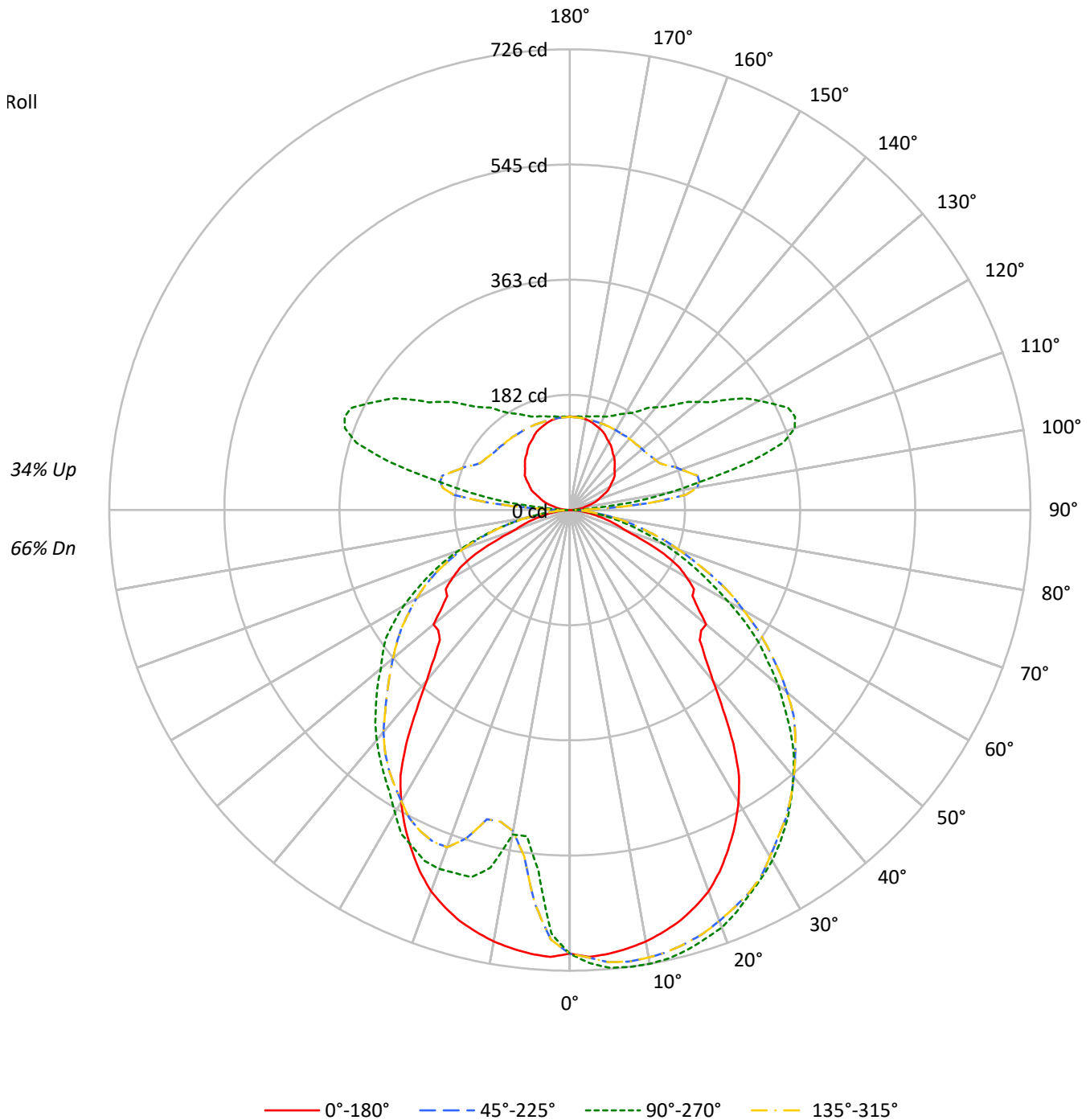
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.7 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 22
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: P933883
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	2.3
10°-20°	179.1	6.5
20°-30°	276.9	10.0
30°-40°	330.6	11.9
40°-50°	332.5	12.0
50°-60°	289.3	10.5
60°-70°	205.1	7.4
70°-80°	108.5	3.9
80°-90°	27.6	1.0
90°-100°	71.7	2.6
100°-110°	188.6	6.8
110°-120°	195.5	7.1
120°-130°	156.8	5.7
130°-140°	123.1	4.4
140°-150°	94.5	3.4
150°-160°	68.0	2.5
160°-170°	41.6	1.5
170°-180°	14.1	0.5
0°-30°	519.1	18.8
0°-40°	849.7	30.7
0°-60°	1471.6	53.2
0°-90°	1812.8	65.5
90°-120°	455.8	16.5
90°-150°	830.2	30.0
90°-180°	954.0	34.5
0°-180°	2766.7	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°	1	4	1	4	1	1
95°	10	43	10	43	10	11
105°	34	295	34	295	34	36
115°	60	380	60	380	60	60
125°	84	303	84	303	84	74
135°	100	235	100	235	100	77
145°	116	191	116	191	116	73
155°	131	164	131	164	131	60
165°	142	153	142	153	142	40
175°	147	148	147	148	147	14
180°	147	147	147	147	147	



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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°	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0	3.7	3.7
92.5°	3.9	10.6	17.4	19.0	26.8	37.2	42.3	37.1	26.6	18.7	17.9
95°	9.5	21.8	34.1	37.2	66.0	104.3	123.5	110.2	83.6	63.7	61.4
97.5°	16.4	27.2	38.1	40.8	88.8	152.8	184.9	176.5	159.6	147.0	142.7
100°	21.7	31.6	41.4	43.9	97.1	168.2	203.7	204.3	205.6	206.5	201.3
102.5°	26.2	35.4	44.7	46.9	101.0	173.0	209.0	219.8	241.2	257.2	252.8
105°	34.0	41.8	49.5	51.5	103.8	173.5	208.4	232.5	280.5	316.5	314.1
107.5°	41.9	49.1	56.4	58.2	104.3	165.8	196.6	230.1	297.1	347.4	348.0
110°	47.2	53.7	60.2	61.9	103.5	159.0	186.7	224.2	299.1	355.3	357.7



TEST NUMBER: P933883

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	52.5	58.7	64.9	66.5	103.5	153.0	177.8	216.1	292.7	350.2	354.0
115°	60.3	66.1	71.8	73.3	104.5	146.2	167.0	203.9	277.8	333.1	338.3
117.5°	68.1	73.4	78.6	79.9	106.5	141.9	159.6	193.0	259.5	309.5	315.3
120°	72.7	77.6	82.5	83.7	108.0	140.4	156.6	187.0	248.0	293.6	299.3
122.5°	77.1	82.0	87.0	88.2	110.2	139.6	154.3	181.7	236.5	277.7	283.2
125°	83.9	88.4	93.0	94.2	113.4	139.0	151.8	175.1	221.8	256.7	261.8
127.5°	89.4	94.1	98.6	99.8	116.4	138.6	149.8	169.8	209.8	239.8	244.1
130°	92.4	97.3	102.2	103.5	118.7	138.9	149.0	166.8	202.4	229.1	233.1
132.5°	95.5	100.5	105.4	106.6	120.5	139.0	148.3	164.3	196.1	220.1	223.6
135°	100.1	104.5	109.1	110.1	122.5	138.9	147.1	160.4	187.1	207.2	210.2
137.5°	104.7	109.2	113.6	114.7	125.4	139.7	146.9	158.2	180.7	197.7	200.3
140°	108.6	112.6	116.7	117.7	127.2	139.9	146.2	156.0	175.5	190.1	192.5
142.5°	111.5	115.3	119.0	120.0	128.8	140.4	146.2	154.8	172.0	184.8	186.8
145°	116.1	119.3	122.7	123.4	130.7	140.4	145.2	152.2	166.2	176.8	178.4
147.5°	120.6	123.7	127.0	127.8	133.6	141.4	145.2	150.8	161.8	170.1	171.4
150°	123.5	126.4	129.4	130.1	135.1	141.9	145.2	149.9	159.2	166.2	167.2
152.5°	126.6	128.8	130.9	131.5	136.1	142.2	145.2	149.2	157.2	163.2	164.0
155°	131.1	132.7	134.4	134.8	138.2	142.9	145.2	148.4	154.8	159.5	160.0
157.5°	134.5	136.1	137.6	138.0	140.4	143.7	145.2	147.7	152.6	156.3	156.7
160°	136.8	137.9	139.2	139.5	141.4	144.0	145.2	147.3	151.5	154.7	154.9
162.5°	139.0	139.9	140.9	141.1	142.5	144.4	145.2	147.0	150.6	153.2	153.4
165°	141.5	142.3	143.2	143.4	144.0	144.8	145.2	146.5	149.1	151.0	151.2
167.5°	143.8	144.2	144.5	144.6	145.1	145.8	146.2	147.0	148.7	150.0	150.1
170°	145.2	145.6	146.0	146.1	146.1	146.2	146.2	147.0	148.7	150.0	150.0
172.5°	146.0	146.1	146.2	146.2	146.2	146.2	146.2	146.9	148.2	149.2	149.1
175°	147.1	147.1	147.1	147.1	146.8	146.4	146.2	146.6	147.5	148.1	148.1
177.5°	147.1	147.1	147.1	147.1	146.9	146.6	146.4	146.7	147.4	147.9	147.8
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



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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°	3.7	3.7	3.7	3.7	3.7	5.0	6.7	7.5	6.4	4.3	2.8
92.5°	15.0	12.0	15.0	17.9	18.7	26.6	37.1	42.3	37.2	26.8	19.0
95°	52.5	43.4	52.5	61.4	63.7	83.6	110.2	123.5	104.3	66.0	37.2
97.5°	125.5	108.4	125.5	142.7	147.0	159.6	176.5	184.9	152.8	88.8	40.8
100°	180.9	160.4	180.9	201.3	206.5	205.6	204.3	203.7	168.2	97.1	43.9
102.5°	235.3	217.7	235.3	252.8	257.2	241.2	219.8	209.0	173.0	101.0	46.9
105°	304.8	295.3	304.8	314.1	316.5	280.5	232.5	208.4	173.5	103.8	51.5
107.5°	350.2	352.5	350.2	348.0	347.4	297.1	230.1	196.6	165.8	104.3	58.2
110°	367.5	377.3	367.5	357.7	355.3	299.1	224.2	186.7	159.0	103.5	61.9



TEST NUMBER: P933883

CATALOG NUMBER: SQ4-FA-025U-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°	369.1	384.1	369.1	354.0	350.2	292.7	216.1	177.8	153.0	103.5	66.5
115°	359.3	380.2	359.3	338.3	333.1	277.8	203.9	167.0	146.2	104.5	73.3
117.5°	338.5	361.8	338.5	315.3	309.5	259.5	193.0	159.6	141.9	106.5	79.9
120°	321.8	344.3	321.8	299.3	293.6	248.0	187.0	156.6	140.4	108.0	83.7
122.5°	305.5	327.7	305.5	283.2	277.7	236.5	181.7	154.3	139.6	110.2	88.2
125°	282.3	302.8	282.3	261.8	256.7	221.8	175.1	151.8	139.0	113.4	94.2
127.5°	261.4	278.6	261.4	244.1	239.8	209.8	169.8	149.8	138.6	116.4	99.8
130°	249.1	265.0	249.1	233.1	229.1	202.4	166.8	149.0	138.9	118.7	103.5
132.5°	237.9	252.2	237.9	223.6	220.1	196.1	164.3	148.3	139.0	120.5	106.6
135°	222.6	235.0	222.6	210.2	207.2	187.1	160.4	147.1	138.9	122.5	110.1
137.5°	210.3	220.5	210.3	200.3	197.7	180.7	158.2	146.9	139.7	125.4	114.7
140°	201.8	211.3	201.8	192.5	190.1	175.5	156.0	146.2	139.9	127.2	117.7
142.5°	194.9	203.0	194.9	186.8	184.8	172.0	154.8	146.2	140.4	128.8	120.0
145°	184.5	190.6	184.5	178.4	176.8	166.2	152.2	145.2	140.4	130.7	123.4
147.5°	176.4	181.5	176.4	171.4	170.1	161.8	150.8	145.2	141.4	133.6	127.8
150°	171.4	175.5	171.4	167.2	166.2	159.2	149.9	145.2	141.9	135.1	130.1
152.5°	167.0	170.2	167.0	164.0	163.2	157.2	149.2	145.2	142.2	136.1	131.5
155°	162.1	164.2	162.1	160.0	159.5	154.8	148.4	145.2	142.9	138.2	134.8
157.5°	158.2	159.6	158.2	156.7	156.3	152.6	147.7	145.2	143.7	140.4	138.0
160°	155.8	156.6	155.8	154.9	154.7	151.5	147.3	145.2	144.0	141.4	139.5
162.5°	154.2	155.0	154.2	153.4	153.2	150.6	147.0	145.2	144.4	142.5	141.1
165°	152.0	152.8	152.0	151.2	151.0	149.1	146.5	145.2	144.8	144.0	143.4
167.5°	150.4	150.8	150.4	150.1	150.0	148.7	147.0	146.2	145.8	145.1	144.6
170°	150.0	150.0	150.0	150.0	150.0	148.7	147.0	146.2	146.2	146.1	146.1
172.5°	148.8	148.5	148.8	149.1	149.2	148.2	146.9	146.2	146.2	146.2	146.2
175°	148.1	148.1	148.1	148.1	148.1	147.5	146.6	146.2	146.4	146.8	147.1
177.5°	147.5	147.1	147.5	147.8	147.9	147.4	146.7	146.4	146.6	146.9	147.1
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P933883

CATALOG NUMBER: SQ4-FA-025U-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°	2.6	1.8	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0
92.5°	17.4	10.6	3.9	10.6	17.4	19.0	26.8	37.2	42.3	37.1	26.6
95°	34.1	21.8	9.5	21.8	34.1	37.2	66.0	104.3	123.5	110.2	83.6
97.5°	38.1	27.2	16.4	27.2	38.1	40.8	88.8	152.8	184.9	176.5	159.6
100°	41.4	31.6	21.7	31.6	41.4	43.9	97.1	168.2	203.7	204.3	205.6
102.5°	44.7	35.4	26.2	35.4	44.7	46.9	101.0	173.0	209.0	219.8	241.2
105°	49.5	41.8	34.0	41.8	49.5	51.5	103.8	173.5	208.4	232.5	280.5
107.5°	56.4	49.1	41.9	49.1	56.4	58.2	104.3	165.8	196.6	230.1	297.1
110°	60.2	53.7	47.2	53.7	60.2	61.9	103.5	159.0	186.7	224.2	299.1



TEST NUMBER: P933883

CATALOG NUMBER: SQ4-FA-025U-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°	64.9	58.7	52.5	58.7	64.9	66.5	103.5	153.0	177.8	216.1	292.7
115°	71.8	66.1	60.3	66.1	71.8	73.3	104.5	146.2	167.0	203.9	277.8
117.5°	78.6	73.4	68.1	73.4	78.6	79.9	106.5	141.9	159.6	193.0	259.5
120°	82.5	77.6	72.7	77.6	82.5	83.7	108.0	140.4	156.6	187.0	248.0
122.5°	87.0	82.0	77.1	82.0	87.0	88.2	110.2	139.6	154.3	181.7	236.5
125°	93.0	88.4	83.9	88.4	93.0	94.2	113.4	139.0	151.8	175.1	221.8
127.5°	98.6	94.1	89.4	94.1	98.6	99.8	116.4	138.6	149.8	169.8	209.8
130°	102.2	97.3	92.4	97.3	102.2	103.5	118.7	138.9	149.0	166.8	202.4
132.5°	105.4	100.5	95.5	100.5	105.4	106.6	120.5	139.0	148.3	164.3	196.1
135°	109.1	104.5	100.1	104.5	109.1	110.1	122.5	138.9	147.1	160.4	187.1
137.5°	113.6	109.2	104.7	109.2	113.6	114.7	125.4	139.7	146.9	158.2	180.7
140°	116.7	112.6	108.6	112.6	116.7	117.7	127.2	139.9	146.2	156.0	175.5
142.5°	119.0	115.3	111.5	115.3	119.0	120.0	128.8	140.4	146.2	154.8	172.0
145°	122.7	119.3	116.1	119.3	122.7	123.4	130.7	140.4	145.2	152.2	166.2
147.5°	127.0	123.7	120.6	123.7	127.0	127.8	133.6	141.4	145.2	150.8	161.8
150°	129.4	126.4	123.5	126.4	129.4	130.1	135.1	141.9	145.2	149.9	159.2
152.5°	130.9	128.8	126.6	128.8	130.9	131.5	136.1	142.2	145.2	149.2	157.2
155°	134.4	132.7	131.1	132.7	134.4	134.8	138.2	142.9	145.2	148.4	154.8
157.5°	137.6	136.1	134.5	136.1	137.6	138.0	140.4	143.7	145.2	147.7	152.6
160°	139.2	137.9	136.8	137.9	139.2	139.5	141.4	144.0	145.2	147.3	151.5
162.5°	140.9	139.9	139.0	139.9	140.9	141.1	142.5	144.4	145.2	147.0	150.6
165°	143.2	142.3	141.5	142.3	143.2	143.4	144.0	144.8	145.2	146.5	149.1
167.5°	144.5	144.2	143.8	144.2	144.5	144.6	145.1	145.8	146.2	147.0	148.7
170°	146.0	145.6	145.2	145.6	146.0	146.1	146.1	146.2	146.2	147.0	148.7
172.5°	146.2	146.1	146.0	146.1	146.2	146.2	146.2	146.2	146.2	146.9	148.2
175°	147.1	147.1	147.1	147.1	147.1	147.1	146.8	146.4	146.2	146.6	147.5
177.5°	147.1	147.1	147.1	147.1	147.1	147.1	146.9	146.6	146.4	146.7	147.4
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P933883

CATALOG NUMBER: SQ4-FA-025U-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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.7	7.5	6.4
92.5°	18.7	17.9	15.0	12.0	15.0	17.9	18.7	26.6	37.1	42.3	37.2
95°	63.7	61.4	52.5	43.4	52.5	61.4	63.7	83.6	110.2	123.5	104.3
97.5°	147.0	142.7	125.5	108.4	125.5	142.7	147.0	159.6	176.5	184.9	152.8
100°	206.5	201.3	180.9	160.4	180.9	201.3	206.5	205.6	204.3	203.7	168.2
102.5°	257.2	252.8	235.3	217.7	235.3	252.8	257.2	241.2	219.8	209.0	173.0
105°	316.5	314.1	304.8	295.3	304.8	314.1	316.5	280.5	232.5	208.4	173.5
107.5°	347.4	348.0	350.2	352.5	350.2	348.0	347.4	297.1	230.1	196.6	165.8
110°	355.3	357.7	367.5	377.3	367.5	357.7	355.3	299.1	224.2	186.7	159.0



TEST NUMBER: P933883

CATALOG NUMBER: SQ4-FA-025U-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°	350.2	354.0	369.1	384.1	369.1	354.0	350.2	292.7	216.1	177.8	153.0
115°	333.1	338.3	359.3	380.2	359.3	338.3	333.1	277.8	203.9	167.0	146.2
117.5°	309.5	315.3	338.5	361.8	338.5	315.3	309.5	259.5	193.0	159.6	141.9
120°	293.6	299.3	321.8	344.3	321.8	299.3	293.6	248.0	187.0	156.6	140.4
122.5°	277.7	283.2	305.5	327.7	305.5	283.2	277.7	236.5	181.7	154.3	139.6
125°	256.7	261.8	282.3	302.8	282.3	261.8	256.7	221.8	175.1	151.8	139.0
127.5°	239.8	244.1	261.4	278.6	261.4	244.1	239.8	209.8	169.8	149.8	138.6
130°	229.1	233.1	249.1	265.0	249.1	233.1	229.1	202.4	166.8	149.0	138.9
132.5°	220.1	223.6	237.9	252.2	237.9	223.6	220.1	196.1	164.3	148.3	139.0
135°	207.2	210.2	222.6	235.0	222.6	210.2	207.2	187.1	160.4	147.1	138.9
137.5°	197.7	200.3	210.3	220.5	210.3	200.3	197.7	180.7	158.2	146.9	139.7
140°	190.1	192.5	201.8	211.3	201.8	192.5	190.1	175.5	156.0	146.2	139.9
142.5°	184.8	186.8	194.9	203.0	194.9	186.8	184.8	172.0	154.8	146.2	140.4
145°	176.8	178.4	184.5	190.6	184.5	178.4	176.8	166.2	152.2	145.2	140.4
147.5°	170.1	171.4	176.4	181.5	176.4	171.4	170.1	161.8	150.8	145.2	141.4
150°	166.2	167.2	171.4	175.5	171.4	167.2	166.2	159.2	149.9	145.2	141.9
152.5°	163.2	164.0	167.0	170.2	167.0	164.0	163.2	157.2	149.2	145.2	142.2
155°	159.5	160.0	162.1	164.2	162.1	160.0	159.5	154.8	148.4	145.2	142.9
157.5°	156.3	156.7	158.2	159.6	158.2	156.7	156.3	152.6	147.7	145.2	143.7
160°	154.7	154.9	155.8	156.6	155.8	154.9	154.7	151.5	147.3	145.2	144.0
162.5°	153.2	153.4	154.2	155.0	154.2	153.4	153.2	150.6	147.0	145.2	144.4
165°	151.0	151.2	152.0	152.8	152.0	151.2	151.0	149.1	146.5	145.2	144.8
167.5°	150.0	150.1	150.4	150.8	150.4	150.1	150.0	148.7	147.0	146.2	145.8
170°	150.0	150.0	150.0	150.0	150.0	150.0	150.0	148.7	147.0	146.2	146.2
172.5°	149.2	149.1	148.8	148.5	148.8	149.1	149.2	148.2	146.9	146.2	146.2
175°	148.1	148.1	148.1	148.1	148.1	148.1	148.1	147.5	146.6	146.2	146.4
177.5°	147.9	147.8	147.5	147.1	147.5	147.8	147.9	147.4	146.7	146.4	146.6
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



TEST NUMBER: P933883

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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°	4.3	2.8	2.6	1.8	1.0
92.5°	26.8	19.0	17.4	10.6	3.9
95°	66.0	37.2	34.1	21.8	9.5
97.5°	88.8	40.8	38.1	27.2	16.4
100°	97.1	43.9	41.4	31.6	21.7
102.5°	101.0	46.9	44.7	35.4	26.2
105°	103.8	51.5	49.5	41.8	34.0
107.5°	104.3	58.2	56.4	49.1	41.9
110°	103.5	61.9	60.2	53.7	47.2



TEST NUMBER: P933883

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	103.5	66.5	64.9	58.7	52.5
115°	104.5	73.3	71.8	66.1	60.3
117.5°	106.5	79.9	78.6	73.4	68.1
120°	108.0	83.7	82.5	77.6	72.7
122.5°	110.2	88.2	87.0	82.0	77.1
125°	113.4	94.2	93.0	88.4	83.9
127.5°	116.4	99.8	98.6	94.1	89.4
130°	118.7	103.5	102.2	97.3	92.4
132.5°	120.5	106.6	105.4	100.5	95.5
135°	122.5	110.1	109.1	104.5	100.1
137.5°	125.4	114.7	113.6	109.2	104.7
140°	127.2	117.7	116.7	112.6	108.6
142.5°	128.8	120.0	119.0	115.3	111.5
145°	130.7	123.4	122.7	119.3	116.1
147.5°	133.6	127.8	127.0	123.7	120.6
150°	135.1	130.1	129.4	126.4	123.5
152.5°	136.1	131.5	130.9	128.8	126.6
155°	138.2	134.8	134.4	132.7	131.1
157.5°	140.4	138.0	137.6	136.1	134.5
160°	141.4	139.5	139.2	137.9	136.8
162.5°	142.5	141.1	140.9	139.9	139.0
165°	144.0	143.4	143.2	142.3	141.5
167.5°	145.1	144.6	144.5	144.2	143.8
170°	146.1	146.1	146.0	145.6	145.2
172.5°	146.2	146.2	146.2	146.1	146.0
175°	146.8	147.1	147.1	147.1	147.1
177.5°	146.9	147.1	147.1	147.1	147.1
180°	147.1	147.1	147.1	147.1	147.1



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.61	13.63	13.42	14.46	15.50	15.41	16.43	16.22	17.26	18.29
	3H	13.10	14.02	13.92	14.86	15.92	16.76	17.67	17.58	18.51	19.57
	4H	13.30	14.16	14.14	15.01	16.08	17.20	18.06	18.04	18.92	19.99
	6H	13.43	14.22	14.28	15.08	16.16	17.49	18.28	18.34	19.14	20.23
	8H	13.43	14.19	14.29	15.07	16.15	17.56	18.32	18.42	19.20	20.28
	12H	13.41	14.13	14.28	15.00	16.11	17.60	18.32	18.47	19.19	20.30
4H	2H	13.65	14.52	14.50	15.37	16.44	15.84	16.70	16.68	17.55	18.62
	3H	14.70	15.42	15.55	16.30	17.39	17.35	18.07	18.21	18.95	20.04
	4H	14.98	15.63	15.85	16.52	17.63	17.88	18.53	18.75	19.41	20.53
	6H	15.11	15.68	16.00	16.59	17.70	18.24	18.81	19.13	19.72	20.83
	8H	15.12	15.65	16.01	16.55	17.68	18.35	18.88	19.24	19.78	20.91
	12H	15.10	15.57	16.01	16.49	17.63	18.41	18.88	19.32	19.80	20.94
8H	4H	15.44	15.97	16.33	16.87	18.00	18.02	18.54	18.90	19.44	20.57
	6H	15.71	16.15	16.62	17.09	18.22	18.45	18.89	19.37	19.83	20.96
	8H	15.75	16.14	16.68	17.07	18.22	18.60	18.99	19.52	19.92	21.07
	12H	15.74	16.09	16.67	17.01	18.21	18.70	19.04	19.63	19.97	21.16
12H	4H	15.45	15.93	16.36	16.85	17.98	17.99	18.46	18.90	19.38	20.52
	6H	15.77	16.16	16.70	17.09	18.24	18.45	18.84	19.37	19.77	20.92
	8H	15.84	16.19	16.77	17.11	18.31	18.61	18.95	19.54	19.88	21.08