

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: P933882

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933882
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-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

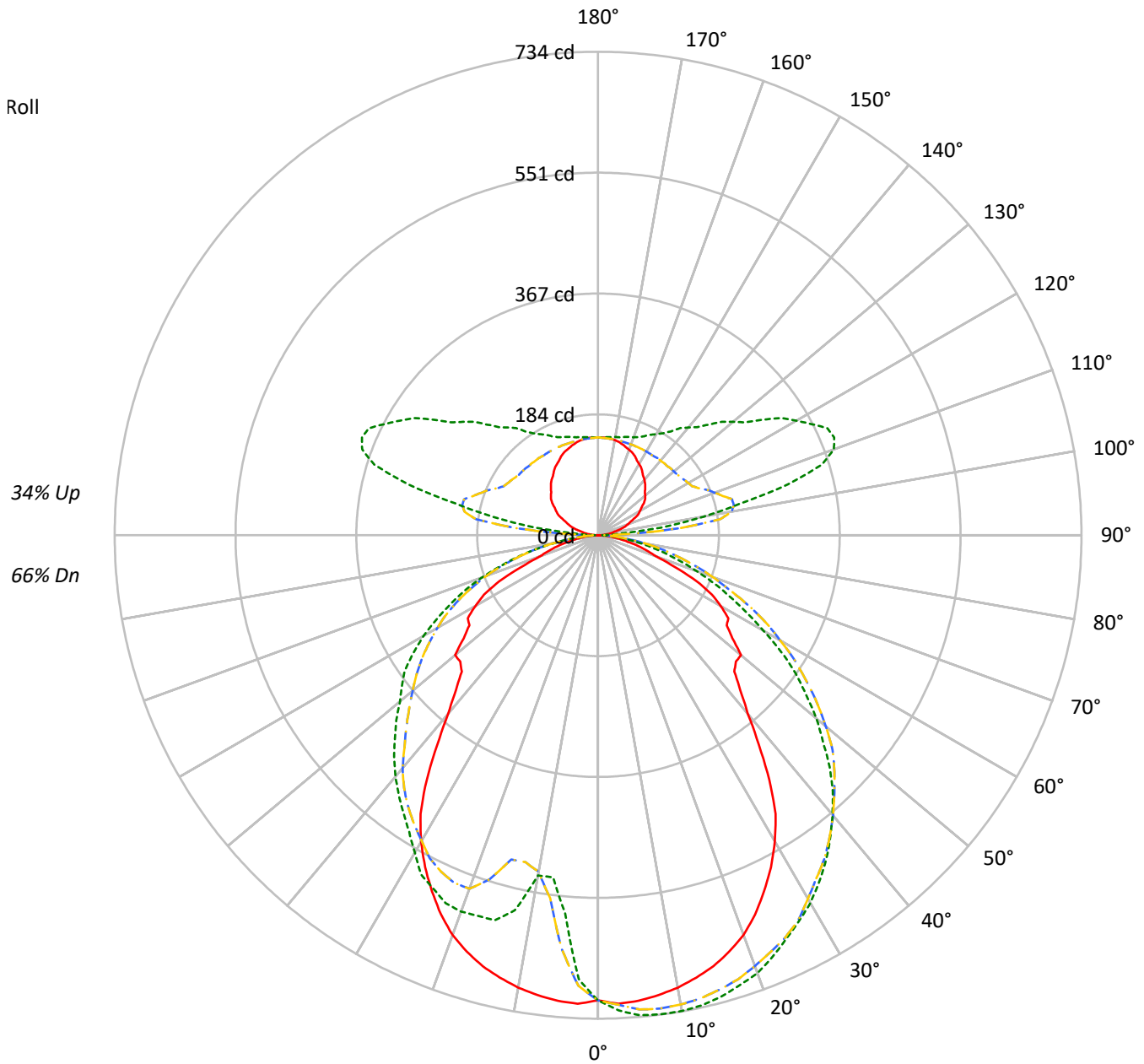
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2794.8 lumens
Efficiency: N/A
Efficacy: 127.0 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: 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

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Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

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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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	2.3
10°-20°	181.0	6.5
20°-30°	279.7	10.0
30°-40°	333.9	11.9
40°-50°	335.9	12.0
50°-60°	292.3	10.5
60°-70°	207.2	7.4
70°-80°	109.6	3.9
80°-90°	27.9	1.0
90°-100°	72.5	2.6
100°-110°	190.5	6.8
110°-120°	197.5	7.1
120°-130°	158.4	5.7
130°-140°	124.3	4.4
140°-150°	95.4	3.4
150°-160°	68.7	2.5
160°-170°	42.0	1.5
170°-180°	14.2	0.5
0°-30°	524.4	18.8
0°-40°	858.3	30.7
0°-60°	1486.5	53.2
0°-90°	1831.2	65.5
90°-120°	460.5	16.5
90°-150°	838.6	30.0
90°-180°	964.0	34.5
0°-180°	2794.8	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°	1	4	1	4	1	1
95°	10	44	10	44	10	11
105°	34	298	34	298	34	36
115°	61	384	61	384	61	60
125°	85	306	85	306	85	75
135°	101	237	101	237	101	78
145°	117	192	117	192	117	73
155°	132	166	132	166	132	61
165°	143	154	143	154	143	40
175°	149	150	149	150	149	14
180°	149	149	149	149	149	



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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°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9	18.9	18.1
95°	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5	64.3	62.1
97.5°	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3	148.5	144.1
100°	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7	208.6	203.4
102.5°	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6	259.9	255.4
105°	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4	319.7	317.3
107.5°	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1	350.9	351.5
110°	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1	358.9	361.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7	353.8	357.6
115°	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6	336.4	341.7
117.5°	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1	312.6	318.5
120°	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5	296.6	302.3
122.5°	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9	280.5	286.1
125°	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0	259.3	264.4
127.5°	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9	242.2	246.6
130°	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5	231.5	235.5
132.5°	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1	222.3	225.9
135°	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0	209.3	212.3
137.5°	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6	199.7	202.3
140°	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3	192.0	194.4
142.5°	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7	186.7	188.7
145°	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9	178.6	180.2
147.5°	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4	171.8	173.1
150°	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9	167.9	168.9
152.5°	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8	164.8	165.6
155°	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4	161.2	161.7
157.5°	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2	157.9	158.3
160°	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1	156.3	156.5
162.5°	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1	154.8	155.0
165°	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6	152.5	152.7
167.5°	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2	151.5	151.6
170°	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2	151.5	151.5
172.5°	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7	150.7	150.6
175°	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0	149.6	149.6
177.5°	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9	149.4	149.3
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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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°	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5	4.4	2.8
92.5°	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5	27.1	19.2
95°	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4	66.6	37.5
97.5°	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4	89.7	41.2
100°	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9	98.1	44.3
102.5°	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8	102.0	47.4
105°	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3	104.9	52.0
107.5°	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5	105.4	58.8
110°	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7	104.6	62.5



TEST NUMBER: P933882

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6	104.6	67.1
115°	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7	105.6	74.0
117.5°	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3	107.6	80.7
120°	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8	109.1	84.6
122.5°	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0	111.4	89.1
125°	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4	114.5	95.1
127.5°	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0	117.6	100.8
130°	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3	119.9	104.6
132.5°	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4	121.7	107.7
135°	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3	123.7	111.3
137.5°	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1	126.7	115.8
140°	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3	128.5	118.9
142.5°	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8	130.1	121.2
145°	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8	132.1	124.7
147.5°	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8	135.0	129.1
150°	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3	136.5	131.4
152.5°	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6	137.4	132.9
155°	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3	139.6	136.2
157.5°	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1	141.8	139.4
160°	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4	142.8	140.9
162.5°	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8	143.9	142.5
165°	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3	145.4	144.8
167.5°	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3	146.6	146.1
170°	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7	147.6	147.6
172.5°	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9	148.3	148.6
177.5°	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1	148.4	148.6
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P933882

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-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°	2.6	1.8	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1
92.5°	17.5	10.8	4.0	10.8	17.5	19.2	27.1	37.5	42.7	37.4	26.9
95°	34.5	22.0	9.6	22.0	34.5	37.5	66.6	105.4	124.8	111.4	84.5
97.5°	38.4	27.5	16.5	27.5	38.4	41.2	89.7	154.4	186.8	178.3	161.3
100°	41.8	31.9	21.9	31.9	41.8	44.3	98.1	169.9	205.8	206.4	207.7
102.5°	45.1	35.8	26.5	35.8	45.1	47.4	102.0	174.8	211.2	222.0	243.6
105°	50.0	42.2	34.4	42.2	50.0	52.0	104.9	175.3	210.6	234.9	283.4
107.5°	57.0	49.6	42.3	49.6	57.0	58.8	105.4	167.5	198.6	232.5	300.1
110°	60.9	54.3	47.7	54.3	60.9	62.5	104.6	160.7	188.6	226.5	302.1



TEST NUMBER: P933882

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	65.5	59.3	53.0	59.3	65.5	67.1	104.6	154.6	179.6	218.3	295.7
115°	72.5	66.7	61.0	66.7	72.5	74.0	105.6	147.7	168.7	206.0	280.6
117.5°	79.4	74.1	68.8	74.1	79.4	80.7	107.6	143.3	161.3	194.9	262.1
120°	83.4	78.4	73.4	78.4	83.4	84.6	109.1	141.8	158.2	188.9	250.5
122.5°	87.8	82.9	77.9	82.9	87.8	89.1	111.4	141.0	155.9	183.6	238.9
125°	93.9	89.3	84.8	89.3	93.9	95.1	114.5	140.4	153.4	176.9	224.0
127.5°	99.6	95.0	90.3	95.0	99.6	100.8	117.6	140.0	151.3	171.5	211.9
130°	103.3	98.3	93.3	98.3	103.3	104.6	119.9	140.3	150.5	168.5	204.5
132.5°	106.5	101.5	96.5	101.5	106.5	107.7	121.7	140.4	149.8	165.9	198.1
135°	110.2	105.6	101.1	105.6	110.2	111.3	123.7	140.3	148.6	162.0	189.0
137.5°	114.7	110.3	105.8	110.3	114.7	115.8	126.7	141.1	148.4	159.8	182.6
140°	117.9	113.7	109.7	113.7	117.9	118.9	128.5	141.3	147.7	157.6	177.3
142.5°	120.2	116.4	112.6	116.4	120.2	121.2	130.1	141.8	147.7	156.4	173.7
145°	123.9	120.5	117.2	120.5	123.9	124.7	132.1	141.8	146.7	153.8	167.9
147.5°	128.3	125.0	121.8	125.0	128.3	129.1	135.0	142.8	146.7	152.3	163.4
150°	130.7	127.7	124.8	127.7	130.7	131.4	136.5	143.3	146.7	151.4	160.9
152.5°	132.3	130.1	127.9	130.1	132.3	132.9	137.4	143.6	146.7	150.7	158.8
155°	135.8	134.1	132.5	134.1	135.8	136.2	139.6	144.3	146.7	149.9	156.4
157.5°	139.0	137.4	135.9	137.4	139.0	139.4	141.8	145.1	146.7	149.2	154.2
160°	140.6	139.3	138.1	139.3	140.6	140.9	142.8	145.4	146.7	148.8	153.1
162.5°	142.3	141.3	140.4	141.3	142.3	142.5	143.9	145.8	146.7	148.5	152.1
165°	144.6	143.7	142.9	143.7	144.6	144.8	145.4	146.3	146.7	148.0	150.6
167.5°	146.0	145.6	145.2	145.6	146.0	146.1	146.6	147.3	147.7	148.5	150.2
170°	147.5	147.1	146.7	147.1	147.5	147.6	147.6	147.7	147.7	148.5	150.2
172.5°	147.7	147.6	147.5	147.6	147.7	147.7	147.7	147.7	147.7	148.4	149.7
175°	148.6	148.6	148.6	148.6	148.6	148.6	148.3	147.9	147.7	148.1	149.0
177.5°	148.6	148.6	148.6	148.6	148.6	148.6	148.4	148.1	147.9	148.2	148.9
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



TEST NUMBER: P933882

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-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°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	5.1	6.8	7.6	6.5
92.5°	18.9	18.1	15.1	12.2	15.1	18.1	18.9	26.9	37.4	42.7	37.5
95°	64.3	62.1	53.0	43.8	53.0	62.1	64.3	84.5	111.4	124.8	105.4
97.5°	148.5	144.1	126.8	109.5	126.8	144.1	148.5	161.3	178.3	186.8	154.4
100°	208.6	203.4	182.8	162.0	182.8	203.4	208.6	207.7	206.4	205.8	169.9
102.5°	259.9	255.4	237.6	219.9	237.6	255.4	259.9	243.6	222.0	211.2	174.8
105°	319.7	317.3	307.9	298.3	307.9	317.3	319.7	283.4	234.9	210.6	175.3
107.5°	350.9	351.5	353.8	356.1	353.8	351.5	350.9	300.1	232.5	198.6	167.5
110°	358.9	361.3	371.2	381.2	371.2	361.3	358.9	302.1	226.5	188.6	160.7



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CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	353.8	357.6	372.8	388.0	372.8	357.6	353.8	295.7	218.3	179.6	154.6
115°	336.4	341.7	362.9	384.1	362.9	341.7	336.4	280.6	206.0	168.7	147.7
117.5°	312.6	318.5	341.9	365.4	341.9	318.5	312.6	262.1	194.9	161.3	143.3
120°	296.6	302.3	325.1	347.8	325.1	302.3	296.6	250.5	188.9	158.2	141.8
122.5°	280.5	286.1	308.6	331.1	308.6	286.1	280.5	238.9	183.6	155.9	141.0
125°	259.3	264.4	285.2	305.9	285.2	264.4	259.3	224.0	176.9	153.4	140.4
127.5°	242.2	246.6	264.0	281.5	264.0	246.6	242.2	211.9	171.5	151.3	140.0
130°	231.5	235.5	251.6	267.7	251.6	235.5	231.5	204.5	168.5	150.5	140.3
132.5°	222.3	225.9	240.3	254.8	240.3	225.9	222.3	198.1	165.9	149.8	140.4
135°	209.3	212.3	224.9	237.3	224.9	212.3	209.3	189.0	162.0	148.6	140.3
137.5°	199.7	202.3	212.4	222.7	212.4	202.3	199.7	182.6	159.8	148.4	141.1
140°	192.0	194.4	203.9	213.4	203.9	194.4	192.0	177.3	157.6	147.7	141.3
142.5°	186.7	188.7	196.9	205.1	196.9	188.7	186.7	173.7	156.4	147.7	141.8
145°	178.6	180.2	186.4	192.5	186.4	180.2	178.6	167.9	153.8	146.7	141.8
147.5°	171.8	173.1	178.2	183.4	178.2	173.1	171.8	163.4	152.3	146.7	142.8
150°	167.9	168.9	173.1	177.3	173.1	168.9	167.9	160.9	151.4	146.7	143.3
152.5°	164.8	165.6	168.7	171.9	168.7	165.6	164.8	158.8	150.7	146.7	143.6
155°	161.2	161.7	163.7	165.8	163.7	161.7	161.2	156.4	149.9	146.7	144.3
157.5°	157.9	158.3	159.8	161.3	159.8	158.3	157.9	154.2	149.2	146.7	145.1
160°	156.3	156.5	157.4	158.2	157.4	156.5	156.3	153.1	148.8	146.7	145.4
162.5°	154.8	155.0	155.8	156.6	155.8	155.0	154.8	152.1	148.5	146.7	145.8
165°	152.5	152.7	153.6	154.4	153.6	152.7	152.5	150.6	148.0	146.7	146.3
167.5°	151.5	151.6	151.9	152.3	151.9	151.6	151.5	150.2	148.5	147.7	147.3
170°	151.5	151.5	151.5	151.5	151.5	151.5	151.5	150.2	148.5	147.7	147.7
172.5°	150.7	150.6	150.3	150.0	150.3	150.6	150.7	149.7	148.4	147.7	147.7
175°	149.6	149.6	149.6	149.6	149.6	149.6	149.6	149.0	148.1	147.7	147.9
177.5°	149.4	149.3	149.0	148.6	149.0	149.3	149.4	148.9	148.2	147.9	148.1
180°	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6	148.6



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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°	4.4	2.8	2.6	1.8	1.0
92.5°	27.1	19.2	17.5	10.8	4.0
95°	66.6	37.5	34.5	22.0	9.6
97.5°	89.7	41.2	38.4	27.5	16.5
100°	98.1	44.3	41.8	31.9	21.9
102.5°	102.0	47.4	45.1	35.8	26.5
105°	104.9	52.0	50.0	42.2	34.4
107.5°	105.4	58.8	57.0	49.6	42.3
110°	104.6	62.5	60.9	54.3	47.7



TEST NUMBER: P933882

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	104.6	67.1	65.5	59.3	53.0
115°	105.6	74.0	72.5	66.7	61.0
117.5°	107.6	80.7	79.4	74.1	68.8
120°	109.1	84.6	83.4	78.4	73.4
122.5°	111.4	89.1	87.8	82.9	77.9
125°	114.5	95.1	93.9	89.3	84.8
127.5°	117.6	100.8	99.6	95.0	90.3
130°	119.9	104.6	103.3	98.3	93.3
132.5°	121.7	107.7	106.5	101.5	96.5
135°	123.7	111.3	110.2	105.6	101.1
137.5°	126.7	115.8	114.7	110.3	105.8
140°	128.5	118.9	117.9	113.7	109.7
142.5°	130.1	121.2	120.2	116.4	112.6
145°	132.1	124.7	123.9	120.5	117.2
147.5°	135.0	129.1	128.3	125.0	121.8
150°	136.5	131.4	130.7	127.7	124.8
152.5°	137.4	132.9	132.3	130.1	127.9
155°	139.6	136.2	135.8	134.1	132.5
157.5°	141.8	139.4	139.0	137.4	135.9
160°	142.8	140.9	140.6	139.3	138.1
162.5°	143.9	142.5	142.3	141.3	140.4
165°	145.4	144.8	144.6	143.7	142.9
167.5°	146.6	146.1	146.0	145.6	145.2
170°	147.6	147.6	147.5	147.1	146.7
172.5°	147.7	147.7	147.7	147.6	147.5
175°	148.3	148.6	148.6	148.6	148.6
177.5°	148.4	148.6	148.6	148.6	148.6
180°	148.6	148.6	148.6	148.6	148.6



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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	12.65	13.67	13.46	14.50	15.53	15.44	16.46	16.26	17.30	18.33
	3H	13.13	14.05	13.96	14.89	15.95	16.79	17.71	17.62	18.55	19.61
	4H	13.33	14.20	14.17	15.05	16.12	17.24	18.10	18.08	18.95	20.02
	6H	13.46	14.26	14.31	15.12	16.20	17.52	18.32	18.38	19.18	20.26
	8H	13.47	14.23	14.33	15.10	16.19	17.60	18.36	18.46	19.23	20.32
	12H	13.44	14.17	14.31	15.04	16.15	17.64	18.36	18.50	19.23	20.34
4H	2H	13.69	14.55	14.54	15.41	16.48	15.87	16.74	16.72	17.59	18.66
	3H	14.73	15.45	15.59	16.34	17.42	17.38	18.11	18.24	18.99	20.07
	4H	15.01	15.67	15.88	16.55	17.66	17.91	18.57	18.78	19.45	20.56
	6H	15.15	15.72	16.03	16.62	17.74	18.28	18.85	19.17	19.75	20.87
	8H	15.16	15.69	16.05	16.59	17.72	18.38	18.91	19.27	19.81	20.94
	12H	15.13	15.61	16.04	16.53	17.66	18.44	18.92	19.35	19.84	20.97
8H	4H	15.48	16.00	16.36	16.90	18.03	18.05	18.58	18.94	19.48	20.61
	6H	15.74	16.18	16.66	17.12	18.25	18.49	18.92	19.40	19.87	20.99
	8H	15.79	16.18	16.71	17.11	18.26	18.63	19.02	19.56	19.96	21.10
	12H	15.78	16.12	16.71	17.05	18.24	18.73	19.08	19.66	20.00	21.20
12H	4H	15.49	15.97	16.40	16.88	18.02	18.02	18.50	18.93	19.42	20.55
	6H	15.80	16.19	16.73	17.13	18.27	18.48	18.87	19.41	19.81	20.95
	8H	15.88	16.22	16.81	17.15	18.34	18.65	18.99	19.58	19.92	21.11