

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: P933835

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933835
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-92765-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

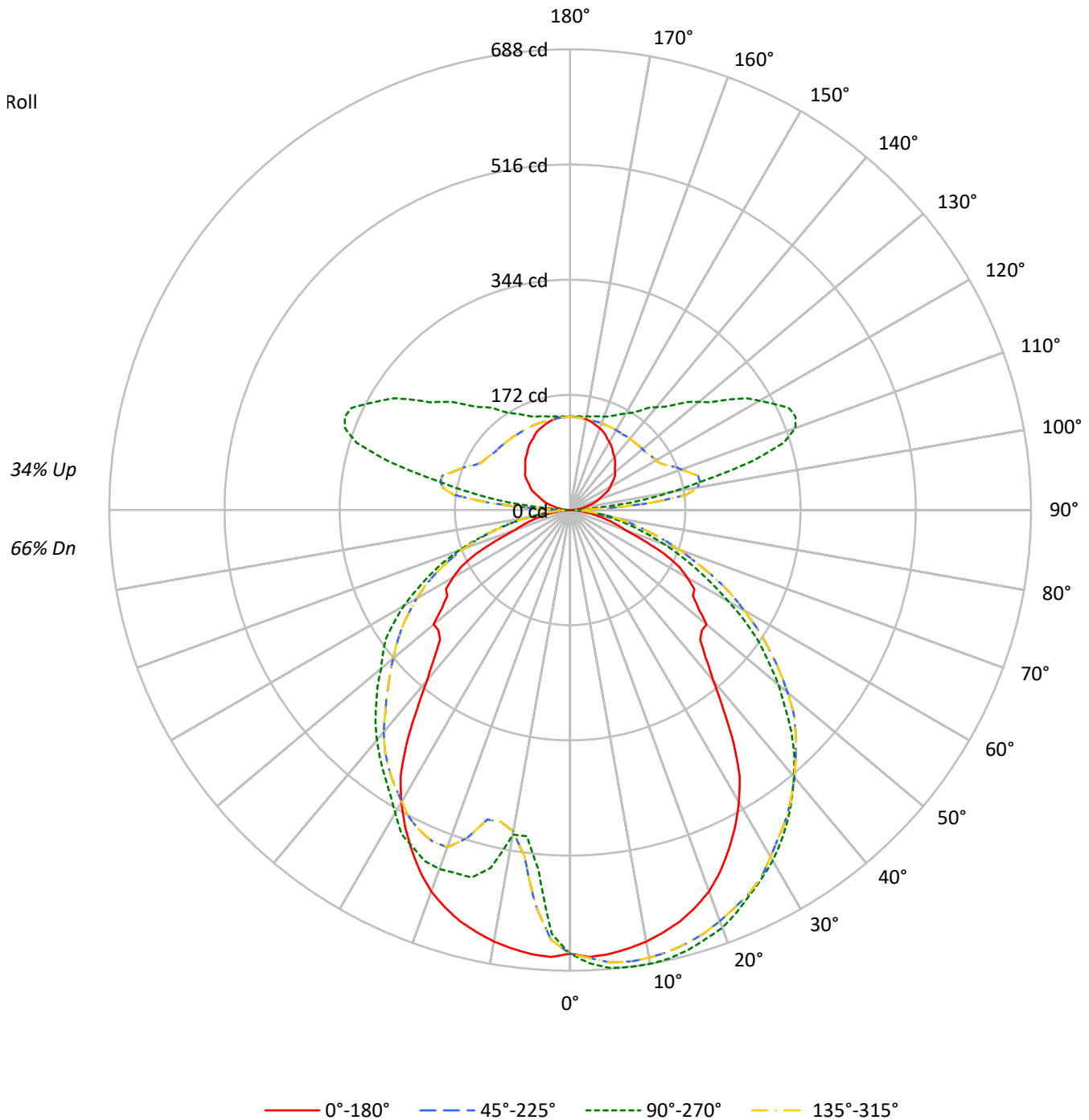
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2622.8 lumens
Efficiency: N/A
Efficacy: 119.2 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 (A_{in}): 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: P933835
CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P933835

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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°	6148	6148	6148	6148
5°	6187	6206	6187	4880
10°	6140	6114	6140	4371
15°	6065	5982	6065	4994
20°	5932	5824	5932	5005
25°	5665	5596	5665	4899
30°	5323	5405	5323	4666
35°	4739	5165	4739	4410
40°	3941	4882	3941	4216
45°	3514	4551	3514	3994
50°	3726	4156	3726	3771
55°	3496	3731	3496	3642
60°	3591	3168	3591	3336
65°	3238	2619	3238	2927
70°	2229	2087	2229	2455
75°	1931	1543	1931	1848
80°	1526	1022	1526	1110
85°	828	541	828	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5398 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	2.3
10°-20°	169.8	6.5
20°-30°	262.5	10.0
30°-40°	313.4	11.9
40°-50°	315.2	12.0
50°-60°	274.3	10.5
60°-70°	194.5	7.4
70°-80°	102.9	3.9
80°-90°	26.2	1.0
90°-100°	68.0	2.6
100°-110°	178.8	6.8
110°-120°	185.4	7.1
120°-130°	148.7	5.7
130°-140°	116.7	4.4
140°-150°	89.5	3.4
150°-160°	64.5	2.5
160°-170°	39.4	1.5
170°-180°	13.3	0.5
0°-30°	492.1	18.8
0°-40°	805.5	30.7
0°-60°	1395.0	53.2
0°-90°	1718.5	65.5
90°-120°	432.1	16.5
90°-150°	787.0	30.0
90°-180°	904.0	34.5
0°-180°	2622.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	663	663	663	663	663	
5°	666	686	666	540	666	63
15°	636	680	636	568	636	179
25°	560	634	560	555	560	257
35°	426	566	426	483	426	263
45°	274	466	274	409	274	220
55°	224	344	224	336	224	206
65°	155	208	155	232	155	149
75°	59	98	59	118	59	62
85°	10	25	10	21	10	14
90°	1	4	1	4	1	1
95°	9	41	9	41	9	10
105°	32	280	32	280	32	34
115°	57	360	57	360	57	56
125°	80	287	80	287	80	71
135°	95	223	95	223	95	73
145°	110	181	110	181	110	69
155°	124	156	124	156	124	57
165°	134	145	134	145	134	38
175°	140	140	140	140	140	13
180°	140	140	140	140	140	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	668.2	668.2	672.0	673.3	673.3	671.4	669.5	671.4	677.0	678.9	678.2
5°	665.7	670.7	677.7	678.9	680.2	679.5	678.2	679.5	685.8	687.0	687.7
7.5°	660.7	670.1	678.9	680.7	682.6	680.7	680.2	681.4	687.7	688.9	688.9
10°	654.5	667.6	677.7	678.9	680.7	678.9	678.9	681.4	687.7	688.9	689.5
12.5°	645.7	663.8	673.3	674.5	677.0	676.4	675.8	678.2	684.6	685.8	685.8
15°	635.6	656.9	665.7	667.0	671.4	670.1	670.1	672.6	679.5	681.4	680.7
17.5°	621.9	648.2	658.2	660.1	663.3	662.6	663.3	665.7	672.0	673.3	673.9
20°	606.2	636.3	648.2	650.1	653.2	653.2	653.2	656.4	662.6	665.1	665.1
22.5°	584.8	623.7	636.3	637.6	641.3	641.3	642.5	646.9	652.5	653.2	653.2
25°	559.8	609.9	620.6	624.4	628.1	630.0	631.9	634.4	636.3	635.6	636.3
27.5°	533.4	592.4	606.2	608.7	613.7	615.6	618.1	618.7	619.3	621.2	620.0
30°	504.0	567.9	588.6	591.1	599.2	600.5	598.0	599.2	602.4	603.6	604.9
32.5°	470.8	531.6	570.5	576.1	583.6	579.9	579.2	581.1	586.2	586.2	587.4
35°	425.7	503.3	553.5	558.6	564.2	559.8	562.3	562.9	566.1	567.9	567.3
37.5°	376.1	478.9	536.0	539.7	544.1	538.5	542.2	544.1	546.6	545.4	545.4
40°	332.2	440.7	515.3	517.8	521.6	517.2	520.9	522.2	523.4	522.2	521.6
42.5°	299.7	398.7	493.3	496.5	494.0	497.1	498.4	500.9	498.9	496.5	496.5
45°	274.5	387.4	469.5	473.2	469.5	474.6	476.4	476.4	470.8	469.5	468.8
47.5°	266.4	364.8	445.7	445.7	443.8	450.1	453.2	448.8	443.2	441.3	441.3
50°	265.8	339.8	413.1	410.6	419.4	426.9	423.8	419.4	415.0	408.1	408.1
52.5°	241.3	309.0	371.1	380.5	394.3	398.7	393.7	389.3	381.7	378.6	376.1
55°	223.8	277.0	332.8	351.6	366.1	371.7	362.3	357.9	346.7	344.8	343.5
57.5°	220.0	230.7	297.8	321.5	339.1	338.6	332.8	324.7	315.3	313.4	312.8
60°	201.9	166.8	260.1	288.4	306.5	304.6	299.7	292.1	283.3	282.1	280.9
62.5°	183.0	121.0	217.5	249.5	275.2	274.5	270.2	258.9	252.7	249.5	246.9
65°	155.4	101.5	154.9	207.5	244.5	245.7	236.3	228.2	221.2	217.5	216.9
67.5°	118.5	82.7	104.7	173.0	215.0	213.8	201.9	198.1	189.3	187.4	183.7
70°	87.8	55.1	72.7	140.4	186.2	183.0	173.7	169.3	161.1	156.8	154.2
72.5°	72.7	44.5	53.3	109.1	156.8	152.9	144.8	139.8	132.9	129.2	126.7
75°	58.9	47.0	40.8	80.9	127.2	124.8	117.2	112.2	106.6	101.5	102.2
77.5°	43.3	43.8	32.6	59.5	100.9	97.2	92.8	86.6	84.0	79.0	79.0
80°	32.6	34.5	24.5	40.8	72.7	72.7	69.0	64.6	60.2	57.7	57.7
82.5°	22.0	22.0	18.1	25.7	49.5	47.7	45.1	43.8	41.4	40.1	40.1
85°	10.0	12.5	11.3	15.7	26.9	28.2	28.2	26.9	26.4	25.1	25.7
87.5°	3.2	5.6	6.9	8.8	13.8	14.4	15.0	15.0	15.0	15.7	15.7
90°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.6	3.6
92.5°	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2	17.8	17.0
95°	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3	60.4	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3	139.4	135.3
100°	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9	195.7	190.9
102.5°	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6	243.9	239.7
105°	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9	300.0	297.8
107.5°	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6	329.3	329.9
110°	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5	336.8	339.1



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.1	168.5	204.9	277.5	332.0	335.6
115°	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3	315.7	320.7
117.5°	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0	293.4	298.9
120°	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1	278.4	283.7
122.5°	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2	263.2	268.4
125°	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2	243.3	248.2
127.5°	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9	227.3	231.4
130°	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9	217.2	221.0
132.5°	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9	208.6	212.0
135°	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4	196.4	199.3
137.5°	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3	187.4	189.8
140°	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4	180.2	182.5
142.5°	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0	175.2	177.1
145°	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6	167.6	169.1
147.5°	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4	161.2	162.5
150°	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0	157.6	158.5
152.5°	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0	154.7	155.4
155°	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7	151.2	151.7
157.5°	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7	148.2	148.5
160°	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7	146.7	146.8
162.5°	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7	145.3	145.4
165°	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3	143.1	143.3
167.5°	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0	142.2	142.3
170°	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0	142.2	142.2
172.5°	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5	141.4	141.3
175°	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8	140.4	140.4
177.5°	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7	140.2	140.1
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	679.5	677.7	679.5	678.2	678.9	677.0	671.4	669.5	671.4	673.3	673.3
5°	687.7	686.4	687.7	687.7	687.0	685.8	679.5	678.2	679.5	680.2	678.9
7.5°	690.2	688.3	690.2	688.9	688.9	687.7	681.4	680.2	680.7	682.6	680.7
10°	690.2	688.3	690.2	689.5	688.9	687.7	681.4	678.9	678.9	680.7	678.9
12.5°	687.0	685.8	687.0	685.8	685.8	684.6	678.2	675.8	676.4	677.0	674.5
15°	682.1	680.2	682.1	680.7	681.4	679.5	672.6	670.1	670.1	671.4	667.0
17.5°	674.5	672.0	674.5	673.9	673.3	672.0	665.7	663.3	662.6	663.3	660.1
20°	665.7	663.8	665.7	665.1	665.1	662.6	656.4	653.2	653.2	653.2	650.1
22.5°	652.0	650.1	652.0	653.2	653.2	652.5	646.9	642.5	641.3	641.3	637.6
25°	636.3	634.4	636.3	636.3	635.6	636.3	634.4	631.9	630.0	628.1	624.4
27.5°	621.2	620.0	621.2	620.0	621.2	619.3	618.7	618.1	615.6	613.7	608.7
30°	606.2	604.9	606.2	604.9	603.6	602.4	599.2	598.0	600.5	599.2	591.1
32.5°	587.4	586.2	587.4	587.4	586.2	586.2	581.1	579.2	579.9	583.6	576.1
35°	567.9	566.1	567.9	567.3	567.9	566.1	562.9	562.3	559.8	564.2	558.6
37.5°	545.4	543.5	545.4	545.4	545.4	546.6	544.1	542.2	538.5	544.1	539.7
40°	522.2	519.7	522.2	521.6	522.2	523.4	522.2	520.9	517.2	521.6	517.8
42.5°	495.9	495.2	495.9	496.5	496.5	498.9	500.9	498.4	497.1	494.0	496.5
45°	467.6	466.4	467.6	468.8	469.5	470.8	476.4	476.4	474.6	469.5	473.2
47.5°	437.5	434.5	437.5	441.3	441.3	443.2	448.8	453.2	450.1	443.8	445.7
50°	405.6	406.2	405.6	408.1	408.1	415.0	419.4	423.8	426.9	419.4	410.6
52.5°	374.3	373.6	374.3	376.1	378.6	381.7	389.3	393.7	398.7	394.3	380.5
55°	342.9	344.2	342.9	343.5	344.8	346.7	357.9	362.3	371.7	366.1	351.6
57.5°	311.5	309.7	311.5	312.8	313.4	315.3	324.7	332.8	338.6	339.1	321.5
60°	275.2	272.7	275.2	280.9	282.1	283.3	292.1	299.7	304.6	306.5	288.4
62.5°	243.2	238.8	243.2	246.9	249.5	252.7	258.9	270.2	274.5	275.2	249.5
65°	209.4	207.5	209.4	216.9	217.5	221.2	228.2	236.3	245.7	244.5	207.5
67.5°	178.6	178.6	178.6	183.7	187.4	189.3	198.1	201.9	213.8	215.0	173.0
70°	150.5	149.8	150.5	154.2	156.8	161.1	169.3	173.7	183.0	186.2	140.4
72.5°	123.5	122.8	123.5	126.7	129.2	132.9	139.8	144.8	152.9	156.8	109.1
75°	99.6	98.4	99.6	102.2	101.5	106.6	112.2	117.2	124.8	127.2	80.9
77.5°	76.5	76.5	76.5	79.0	79.0	84.0	86.6	92.8	97.2	100.9	59.5
80°	57.0	56.5	57.0	57.7	57.7	60.2	64.6	69.0	72.7	72.7	40.8
82.5°	40.1	38.9	40.1	40.1	40.1	41.4	43.8	45.1	47.7	49.5	25.7
85°	25.1	25.1	25.1	25.7	25.1	26.4	26.9	28.2	28.2	26.9	15.7
87.5°	16.3	15.7	16.3	15.7	15.7	15.0	15.0	15.0	14.4	13.8	8.8
90°	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1	4.1	2.6
92.5°	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2	25.4	18.0
95°	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9	62.5	35.2
97.5°	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9	84.2	38.7
100°	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5	92.1	41.6
102.5°	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0	95.7	44.5
105°	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5	98.4	48.8
107.5°	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2	98.9	55.1
110°	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8	98.1	58.7



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1	98.1	63.0
115°	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6	99.1	69.4
117.5°	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5	100.9	75.7
120°	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1	102.4	79.4
122.5°	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4	104.5	83.7
125°	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8	107.5	89.3
127.5°	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4	110.4	94.6
130°	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7	112.5	98.1
132.5°	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8	114.2	101.0
135°	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7	116.1	104.4
137.5°	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4	118.9	108.7
140°	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6	120.6	111.6
142.5°	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1	122.1	113.8
145°	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1	123.9	117.0
147.5°	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0	126.7	121.1
150°	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5	128.1	123.3
152.5°	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8	129.0	124.7
155°	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4	131.0	127.8
157.5°	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2	133.1	130.9
160°	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5	134.0	132.3
162.5°	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8	135.1	133.8
165°	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3	136.5	135.9
167.5°	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2	137.6	137.1
170°	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6	138.5	138.5
172.5°	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8	139.2	139.5
177.5°	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0	139.3	139.5
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	672.0	668.2	668.2	662.0	659.4	657.6	654.5	645.0	642.5	640.0	643.8
5°	677.7	670.7	665.7	654.5	645.0	641.3	629.3	606.8	591.8	580.5	574.2
7.5°	678.9	670.1	660.7	643.2	620.6	610.5	574.2	532.9	521.6	511.6	505.2
10°	677.7	667.6	654.5	628.1	574.8	557.3	520.9	494.0	487.1	485.2	487.1
12.5°	673.3	663.8	645.7	601.8	527.2	515.3	494.0	478.3	477.1	480.2	497.1
15°	665.7	656.9	635.6	566.7	500.9	492.1	477.1	471.4	478.3	500.3	551.0
17.5°	658.2	648.2	621.9	532.2	480.8	474.6	463.9	475.2	514.0	543.5	560.4
20°	648.2	636.3	606.2	507.2	466.4	460.7	455.8	506.5	536.0	546.6	556.1
22.5°	636.3	623.7	584.8	489.6	451.4	447.0	450.1	524.1	536.0	543.5	551.7
25°	620.6	609.9	559.8	475.8	439.4	434.5	446.3	522.2	529.0	530.9	547.3
27.5°	606.2	592.4	533.4	463.2	425.0	423.1	449.5	514.0	519.0	520.9	538.5
30°	588.6	567.9	504.0	450.1	410.0	409.3	450.1	504.0	502.8	507.7	525.3
32.5°	570.5	531.6	470.8	433.8	395.6	394.9	445.7	488.9	487.7	494.6	507.7
35°	553.5	503.3	425.7	415.0	377.3	378.0	435.0	471.4	472.0	478.3	486.4
37.5°	536.0	478.9	376.1	394.3	359.9	359.9	420.6	455.1	453.9	455.8	467.0
40°	515.3	440.7	332.2	367.3	343.5	341.6	403.0	437.5	433.1	432.6	448.2
42.5°	493.3	398.7	299.7	331.6	324.7	322.2	381.7	416.2	408.1	410.0	430.1
45°	469.5	387.4	274.5	280.2	305.3	303.4	358.6	391.8	386.1	391.2	411.8
47.5°	445.7	364.8	266.4	232.6	284.6	284.0	332.8	368.0	364.8	369.9	391.8
50°	413.1	339.8	265.8	199.4	261.4	263.9	302.2	344.8	344.8	349.2	372.4
52.5°	371.1	309.0	241.3	180.5	234.4	242.0	275.2	324.7	325.9	330.3	351.1
55°	332.8	277.0	223.8	166.1	202.5	218.8	248.8	304.1	306.5	310.9	329.8
57.5°	297.8	230.7	220.0	149.2	173.0	188.7	225.6	284.0	285.2	289.0	307.1
60°	260.1	166.8	201.9	131.0	147.3	159.2	204.3	260.1	264.5	267.0	282.7
62.5°	217.5	121.0	183.0	118.5	134.8	137.3	186.8	237.6	243.2	245.1	254.5
65°	154.9	101.5	155.4	107.9	121.6	122.3	168.0	214.4	219.4	222.6	229.5
67.5°	104.7	82.7	118.5	97.8	111.6	112.2	149.8	187.4	194.3	196.8	201.2
70°	72.7	55.1	87.8	87.1	100.3	101.5	130.4	163.0	169.3	171.1	173.7
72.5°	53.3	44.5	72.7	78.3	88.4	89.6	110.3	135.4	141.7	143.6	144.8
75°	40.8	47.0	58.9	68.3	75.2	75.8	90.3	110.3	114.7	116.0	116.6
77.5°	32.6	43.8	43.3	55.1	61.4	60.2	70.9	85.2	89.0	89.0	89.0
80°	24.5	34.5	32.6	39.5	45.1	43.8	50.8	60.8	62.1	63.3	62.7
82.5°	18.1	22.0	22.0	25.1	30.1	28.9	33.8	39.5	39.5	39.5	40.8
85°	11.3	12.5	10.0	13.2	16.9	16.3	18.8	21.3	22.0	22.0	20.7
87.5°	6.9	5.6	3.2	5.0	7.5	7.5	8.8	9.4	8.8	8.8	8.8
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8
92.5°	16.5	10.1	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2
95°	32.3	20.7	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3
97.5°	36.1	25.8	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3
100°	39.3	29.9	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9
102.5°	42.3	33.6	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6
105°	46.9	39.6	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9
107.5°	53.5	46.5	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6
110°	57.1	50.9	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	61.5	55.6	49.7	55.6	61.5	63.0	98.1	145.1	168.5	204.9	277.5
115°	68.0	62.6	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3
117.5°	74.5	69.5	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0
120°	78.2	73.6	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1
122.5°	82.4	77.8	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2
125°	88.1	83.8	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2
127.5°	93.5	89.2	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9
130°	96.9	92.3	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9
132.5°	99.9	95.2	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9
135°	103.4	99.1	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4
137.5°	107.7	103.5	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3
140°	110.7	106.7	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4
142.5°	112.8	109.3	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0
145°	116.3	113.1	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6
147.5°	120.4	117.3	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4
150°	122.6	119.8	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0
152.5°	124.1	122.1	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0
155°	127.4	125.8	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7
157.5°	130.5	129.0	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7
160°	132.0	130.8	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7
162.5°	133.6	132.6	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7
165°	135.7	134.9	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3
167.5°	137.0	136.7	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0
170°	138.4	138.1	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0
172.5°	138.6	138.5	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5
175°	139.5	139.5	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8
177.5°	139.5	139.5	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6	662.6
2.5°	639.4	637.6	640.0	633.2	640.0	637.6	639.4	643.8	640.0	642.5	645.0
5°	561.0	557.9	547.9	539.7	547.9	557.9	561.0	574.2	580.5	591.8	606.8
7.5°	501.5	498.9	496.5	491.5	496.5	498.9	501.5	505.2	511.6	521.6	532.9
10°	488.3	488.9	492.7	492.1	492.7	488.9	488.3	487.1	485.2	487.1	494.0
12.5°	522.2	527.8	548.5	547.3	548.5	527.8	522.2	497.1	480.2	477.1	478.3
15°	561.0	562.9	567.3	567.9	567.3	562.9	561.0	551.0	500.3	478.3	471.4
17.5°	564.8	565.4	568.6	568.6	568.6	565.4	564.8	560.4	543.5	514.0	475.2
20°	561.7	562.9	569.2	570.5	569.2	562.9	561.7	556.1	546.6	536.0	506.5
22.5°	560.4	562.9	567.9	567.3	567.9	562.9	560.4	551.7	543.5	536.0	524.1
25°	554.2	554.2	554.7	555.4	554.7	554.2	554.2	547.3	530.9	529.0	522.2
27.5°	541.0	542.2	546.0	545.4	546.0	542.2	541.0	538.5	520.9	519.0	514.0
30°	529.0	527.8	524.7	522.2	524.7	527.8	529.0	525.3	507.7	502.8	504.0
32.5°	509.0	505.9	502.8	500.9	502.8	505.9	509.0	507.7	494.6	487.7	488.9
35°	485.2	485.9	485.2	483.3	485.2	485.9	485.2	486.4	478.3	472.0	471.4
37.5°	468.3	469.5	468.8	466.4	468.8	469.5	468.3	467.0	455.8	453.9	455.1
40°	450.7	451.4	450.7	448.8	450.7	451.4	450.7	448.2	432.6	433.1	437.5
42.5°	433.8	433.1	431.3	430.1	431.3	433.1	433.8	430.1	410.0	408.1	416.2
45°	414.4	415.0	411.2	409.3	411.2	415.0	414.4	411.8	391.2	386.1	391.8
47.5°	394.9	394.9	391.8	389.9	391.8	394.9	394.9	391.8	369.9	364.8	368.0
50°	374.3	373.6	369.2	368.6	369.2	373.6	374.3	372.4	349.2	344.8	344.8
52.5°	350.4	350.4	351.1	352.3	351.1	350.4	350.4	351.1	330.3	325.9	324.7
55°	329.8	330.3	334.7	336.0	334.7	330.3	329.8	329.8	310.9	306.5	304.1
57.5°	308.5	308.5	311.5	311.5	311.5	308.5	308.5	307.1	289.0	285.2	284.0
60°	284.0	285.2	287.7	287.1	287.7	285.2	284.0	282.7	267.0	264.5	260.1
62.5°	258.3	259.6	260.1	258.9	260.1	259.6	258.3	254.5	245.1	243.2	237.6
65°	231.3	232.6	233.2	231.9	233.2	232.6	231.3	229.5	222.6	219.4	214.4
67.5°	203.8	203.1	202.5	205.0	202.5	203.1	203.8	201.2	196.8	194.3	187.4
70°	175.5	175.5	174.9	176.2	174.9	175.5	175.5	173.7	171.1	169.3	163.0
72.5°	145.4	144.8	147.3	145.4	147.3	144.8	145.4	144.8	143.6	141.7	135.4
75°	116.0	117.2	116.0	117.9	116.0	117.2	116.0	116.6	116.0	114.7	110.3
77.5°	88.4	89.6	88.4	88.4	88.4	89.6	88.4	89.0	89.0	89.0	85.2
80°	62.7	62.1	62.1	61.4	62.1	62.1	62.7	62.7	63.3	62.1	60.8
82.5°	40.1	39.5	39.5	40.8	39.5	39.5	40.1	40.8	39.5	39.5	39.5
85°	22.0	22.5	21.3	21.3	21.3	22.5	22.0	20.7	22.0	22.0	21.3
87.5°	8.1	7.5	7.5	7.5	7.5	7.5	8.1	8.8	8.8	8.8	9.4
90°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1
92.5°	17.8	17.0	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2
95°	60.4	58.2	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9
97.5°	139.4	135.3	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9
100°	195.7	190.9	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5
102.5°	243.9	239.7	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0
105°	300.0	297.8	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5
107.5°	329.3	329.9	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2
110°	336.8	339.1	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	332.0	335.6	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1
115°	315.7	320.7	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6
117.5°	293.4	298.9	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5
120°	278.4	283.7	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1
122.5°	263.2	268.4	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4
125°	243.3	248.2	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8
127.5°	227.3	231.4	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4
130°	217.2	221.0	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7
132.5°	208.6	212.0	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8
135°	196.4	199.3	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7
137.5°	187.4	189.8	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4
140°	180.2	182.5	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6
142.5°	175.2	177.1	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1
145°	167.6	169.1	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1
147.5°	161.2	162.5	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0
150°	157.6	158.5	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5
152.5°	154.7	155.4	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8
155°	151.2	151.7	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4
157.5°	148.2	148.5	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2
160°	146.7	146.8	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5
162.5°	145.3	145.4	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8
165°	143.1	143.3	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3
167.5°	142.2	142.3	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2
170°	142.2	142.2	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6
172.5°	141.4	141.3	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8
177.5°	140.2	140.1	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	662.6	662.6	662.6	662.6	662.6
2.5°	654.5	657.6	659.4	662.0	668.2
5°	629.3	641.3	645.0	654.5	665.7
7.5°	574.2	610.5	620.6	643.2	660.7
10°	520.9	557.3	574.8	628.1	654.5
12.5°	494.0	515.3	527.2	601.8	645.7
15°	477.1	492.1	500.9	566.7	635.6
17.5°	463.9	474.6	480.8	532.2	621.9
20°	455.8	460.7	466.4	507.2	606.2
22.5°	450.1	447.0	451.4	489.6	584.8
25°	446.3	434.5	439.4	475.8	559.8
27.5°	449.5	423.1	425.0	463.2	533.4
30°	450.1	409.3	410.0	450.1	504.0
32.5°	445.7	394.9	395.6	433.8	470.8
35°	435.0	378.0	377.3	415.0	425.7
37.5°	420.6	359.9	359.9	394.3	376.1
40°	403.0	341.6	343.5	367.3	332.2
42.5°	381.7	322.2	324.7	331.6	299.7
45°	358.6	303.4	305.3	280.2	274.5
47.5°	332.8	284.0	284.6	232.6	266.4
50°	302.2	263.9	261.4	199.4	265.8
52.5°	275.2	242.0	234.4	180.5	241.3
55°	248.8	218.8	202.5	166.1	223.8
57.5°	225.6	188.7	173.0	149.2	220.0
60°	204.3	159.2	147.3	131.0	201.9
62.5°	186.8	137.3	134.8	118.5	183.0
65°	168.0	122.3	121.6	107.9	155.4
67.5°	149.8	112.2	111.6	97.8	118.5
70°	130.4	101.5	100.3	87.1	87.8
72.5°	110.3	89.6	88.4	78.3	72.7
75°	90.3	75.8	75.2	68.3	58.9
77.5°	70.9	60.2	61.4	55.1	43.3
80°	50.8	43.8	45.1	39.5	32.6
82.5°	33.8	28.9	30.1	25.1	22.0
85°	18.8	16.3	16.9	13.2	10.0
87.5°	8.8	7.5	7.5	5.0	3.2
90°	4.1	2.6	2.4	1.7	0.9
92.5°	25.4	18.0	16.5	10.1	3.7
95°	62.5	35.2	32.3	20.7	9.0
97.5°	84.2	38.7	36.1	25.8	15.5
100°	92.1	41.6	39.3	29.9	20.6
102.5°	95.7	44.5	42.3	33.6	24.9
105°	98.4	48.8	46.9	39.6	32.2
107.5°	98.9	55.1	53.5	46.5	39.7
110°	98.1	58.7	57.1	50.9	44.8



TEST NUMBER: P933835

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	98.1	63.0	61.5	55.6	49.7
115°	99.1	69.4	68.0	62.6	57.2
117.5°	100.9	75.7	74.5	69.5	64.6
120°	102.4	79.4	78.2	73.6	68.9
122.5°	104.5	83.7	82.4	77.8	73.1
125°	107.5	89.3	88.1	83.8	79.5
127.5°	110.4	94.6	93.5	89.2	84.8
130°	112.5	98.1	96.9	92.3	87.6
132.5°	114.2	101.0	99.9	95.2	90.6
135°	116.1	104.4	103.4	99.1	94.9
137.5°	118.9	108.7	107.7	103.5	99.3
140°	120.6	111.6	110.7	106.7	102.9
142.5°	122.1	113.8	112.8	109.3	105.7
145°	123.9	117.0	116.3	113.1	110.0
147.5°	126.7	121.1	120.4	117.3	114.3
150°	128.1	123.3	122.6	119.8	117.1
152.5°	129.0	124.7	124.1	122.1	120.0
155°	131.0	127.8	127.4	125.8	124.3
157.5°	133.1	130.9	130.5	129.0	127.5
160°	134.0	132.3	132.0	130.8	129.6
162.5°	135.1	133.8	133.6	132.6	131.8
165°	136.5	135.9	135.7	134.9	134.1
167.5°	137.6	137.1	137.0	136.7	136.3
170°	138.5	138.5	138.4	138.1	137.7
172.5°	138.6	138.6	138.6	138.5	138.4
175°	139.2	139.5	139.5	139.5	139.5
177.5°	139.3	139.5	139.5	139.5	139.5
180°	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P933835
 CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-4-5000K

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	12.43	13.45	13.24	14.28	15.31	15.22	16.24	16.03	17.08	18.11
	3H	12.91	13.83	13.74	14.67	15.73	16.57	17.49	17.39	18.33	19.39
	4H	13.11	13.98	13.95	14.83	15.90	17.01	17.88	17.86	18.73	19.80
	6H	13.24	14.04	14.09	14.90	15.98	17.30	18.10	18.15	18.96	20.04
	8H	13.25	14.01	14.11	14.88	15.97	17.38	18.13	18.24	19.01	20.09
	12H	13.22	13.95	14.09	14.82	15.93	17.41	18.14	18.28	19.01	20.12
4H	2H	13.47	14.33	14.32	15.19	16.26	15.65	16.52	16.50	17.37	18.44
	3H	14.51	15.23	15.37	16.12	17.20	17.16	17.88	18.02	18.77	19.85
	4H	14.79	15.45	15.66	16.33	17.44	17.69	18.35	18.56	19.23	20.34
	6H	14.93	15.49	15.81	16.40	17.52	18.06	18.62	18.94	19.53	20.64
	8H	14.94	15.47	15.83	16.37	17.50	18.16	18.69	19.05	19.59	20.72
	12H	14.91	15.39	15.82	16.31	17.44	18.22	18.70	19.13	19.62	20.75
8H	4H	15.26	15.78	16.14	16.68	17.81	17.83	18.36	18.72	19.26	20.39
	6H	15.52	15.96	16.44	16.90	18.03	18.26	18.70	19.18	19.64	20.77
	8H	15.57	15.96	16.49	16.89	18.04	18.41	18.80	19.34	19.74	20.88
	12H	15.56	15.90	16.49	16.83	18.02	18.51	18.86	19.44	19.78	20.98
12H	4H	15.27	15.74	16.18	16.66	17.80	17.80	18.28	18.71	19.20	20.33
	6H	15.58	15.97	16.51	16.91	18.05	18.26	18.65	19.19	19.59	20.73
	8H	15.66	16.00	16.59	16.93	18.12	18.43	18.77	19.36	19.70	20.89