

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: P933837

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933837
REPORT IS A COMBINATION OF REPORTS P933675 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-6-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

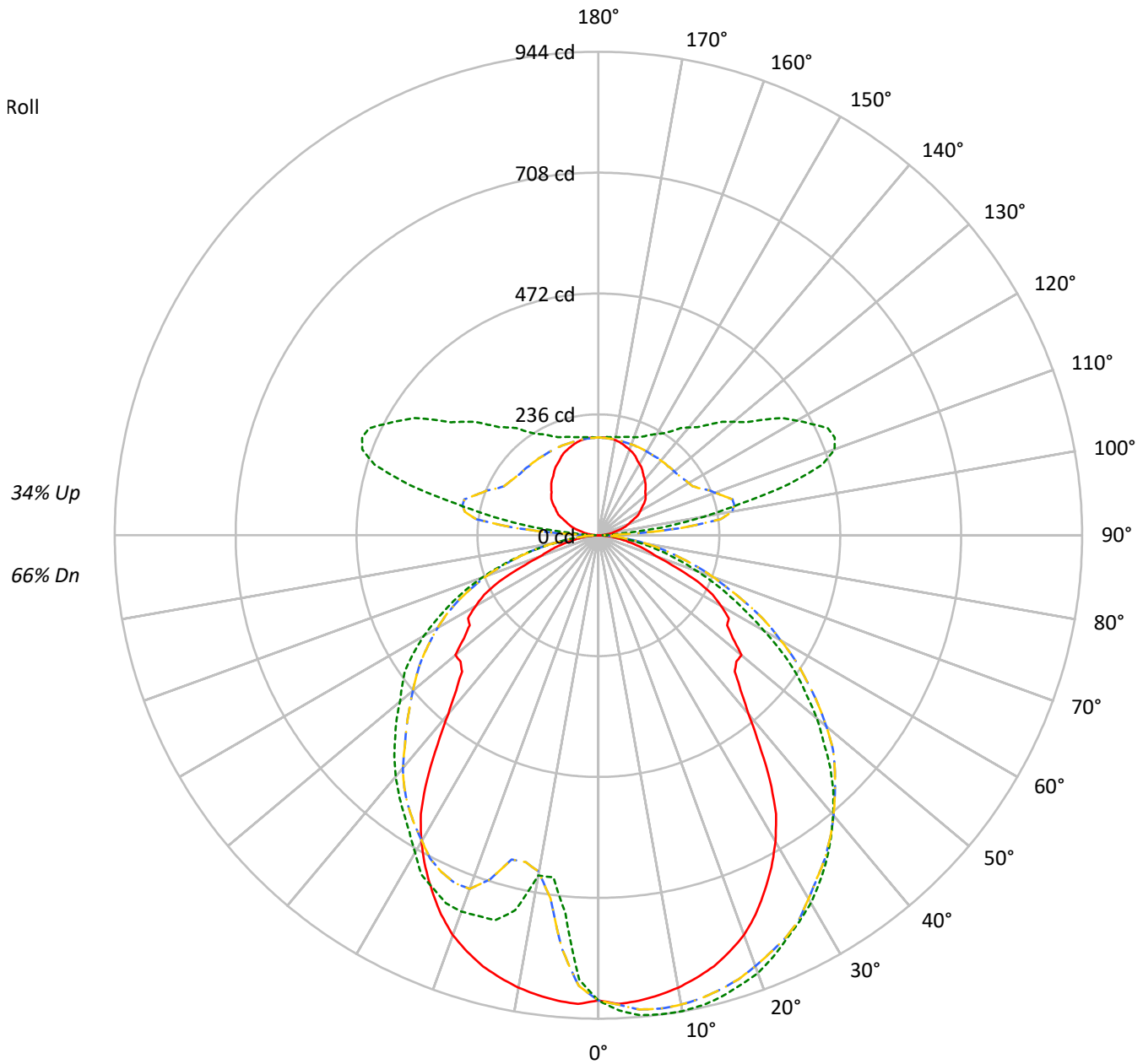
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3595.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33
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	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°	5618	5618	5618	5618
5°	5658	5671	5658	4459
10°	5618	5587	5618	3994
15°	5555	5466	5555	4564
20°	5437	5322	5437	4573
25°	5197	5113	5197	4477
30°	4887	4940	4887	4264
35°	4356	4720	4356	4030
40°	3627	4461	3627	3853
45°	3238	4158	3238	3650
50°	3438	3798	3438	3446
55°	3231	3409	3231	3328
60°	3327	2895	3327	3048
65°	3012	2393	3012	2675
70°	2081	1907	2081	2243
75°	1818	1410	1818	1688
80°	1455	932	1455	1015
85°	823	493	823	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	2.3
10°-20°	232.8	6.5
20°-30°	359.8	10.0
30°-40°	429.5	11.9
40°-50°	432.1	12.0
50°-60°	375.9	10.5
60°-70°	266.6	7.4
70°-80°	141.0	3.9
80°-90°	35.9	1.0
90°-100°	93.2	2.6
100°-110°	245.0	6.8
110°-120°	254.1	7.1
120°-130°	203.8	5.7
130°-140°	159.9	4.4
140°-150°	122.7	3.4
150°-160°	88.4	2.5
160°-170°	54.1	1.5
170°-180°	18.3	0.5
0°-30°	674.6	18.8
0°-40°	1104.1	30.7
0°-60°	1912.1	53.2
0°-90°	2355.6	65.5
90°-120°	592.3	16.5
90°-150°	1078.7	30.0
90°-180°	1239.0	34.5
0°-180°	3595.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	908	908	908	908	908	
5°	912	941	912	740	912	87
15°	871	932	871	778	871	245
25°	767	870	767	761	767	352
35°	584	776	584	662	584	361
45°	376	639	376	561	376	301
55°	307	472	307	460	307	282
65°	213	284	213	318	213	204
75°	81	135	81	162	81	85
85°	14	34	14	29	14	19
90°	1	5	1	5	1	2
95°	12	56	12	56	12	14
105°	44	384	44	384	44	47
115°	78	494	78	494	78	77
125°	109	393	109	393	109	97
135°	130	305	130	305	130	101
145°	151	248	151	248	151	94
155°	170	213	170	213	170	78
165°	184	199	184	199	184	52
175°	191	192	191	192	191	18
180°	191	191	191	191	191	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	916.0	916.0	921.1	922.8	922.8	920.2	917.7	920.2	928.0	930.6	929.7
5°	912.5	919.4	928.9	930.6	932.3	931.4	929.7	931.4	940.0	941.8	942.6
7.5°	905.6	918.5	930.6	933.1	935.7	933.1	932.3	934.0	942.6	944.3	944.3
10°	897.0	915.1	928.9	930.6	933.1	930.6	930.6	934.0	942.6	944.3	945.2
12.5°	885.0	909.9	922.8	924.5	928.0	927.2	926.2	929.7	938.3	940.0	940.0
15°	871.3	900.5	912.5	914.3	920.2	918.5	918.5	921.9	931.4	934.0	933.1
17.5°	852.3	888.5	902.2	904.8	909.0	908.2	909.0	912.5	921.1	922.8	923.7
20°	830.9	872.2	888.5	891.0	895.3	895.3	895.3	899.7	908.2	911.6	911.6
22.5°	801.7	854.9	872.2	873.9	879.0	879.0	880.7	886.8	894.4	895.3	895.3
25°	767.3	836.0	850.6	855.8	861.0	863.5	866.1	869.6	872.2	871.3	872.2
27.5°	731.2	811.9	830.9	834.3	841.2	843.8	847.2	848.1	848.9	851.5	849.8
30°	690.8	778.5	806.8	810.2	821.4	823.1	819.7	821.4	825.7	827.5	829.2
32.5°	645.3	728.7	781.9	789.6	800.0	794.8	793.9	796.5	803.4	803.4	805.1
35°	583.5	690.0	758.7	765.6	773.3	767.3	770.8	771.6	775.9	778.5	777.6
37.5°	515.6	656.5	734.6	739.8	745.8	738.1	743.3	745.8	749.2	747.5	747.5
40°	455.4	604.0	706.3	709.7	714.9	708.8	714.1	715.8	717.5	715.8	714.9
42.5°	410.8	546.5	676.2	680.5	677.1	681.3	683.1	686.5	684.0	680.5	680.5
45°	376.3	531.0	643.6	648.7	643.6	650.4	653.0	653.0	645.3	643.6	642.7
47.5°	365.1	500.1	611.0	611.0	608.3	616.9	621.2	615.2	607.5	604.9	604.9
50°	364.3	465.7	566.2	562.8	574.8	585.2	580.8	574.8	568.8	559.4	559.4
52.5°	330.8	423.6	508.6	521.5	540.5	546.5	539.6	533.6	523.2	519.0	515.6
55°	306.7	379.7	456.3	482.1	501.8	509.5	496.7	490.6	475.2	472.6	470.9
57.5°	301.6	316.2	408.1	440.8	464.8	464.0	456.3	445.1	432.2	429.6	428.8
60°	276.7	228.6	356.6	395.3	420.1	417.6	410.8	400.4	388.4	386.7	385.0
62.5°	250.9	165.9	298.2	342.0	377.2	376.3	370.3	354.9	346.3	342.0	338.6
65°	213.1	139.2	212.3	284.4	335.1	336.8	324.0	312.8	303.3	298.2	297.3
67.5°	162.4	113.4	143.5	237.2	294.8	293.0	276.7	271.5	259.5	256.9	251.8
70°	120.3	75.6	99.7	192.4	255.2	250.9	238.0	232.0	220.8	214.8	211.4
72.5°	99.7	61.0	73.0	149.5	214.8	209.7	198.5	191.6	182.2	177.0	173.6
75°	80.8	64.4	55.9	110.9	174.4	171.0	160.7	153.8	146.1	139.2	140.1
77.5°	59.3	60.1	44.7	81.7	138.4	133.2	127.2	118.6	115.1	108.3	108.3
80°	44.7	47.2	33.5	55.9	99.7	99.7	94.6	88.5	82.5	79.1	79.1
82.5°	30.1	30.1	24.9	35.2	67.9	65.3	61.8	60.1	56.7	55.0	55.0
85°	13.8	17.2	15.5	21.4	37.0	38.7	38.7	37.0	36.1	34.3	35.2
87.5°	4.3	7.8	9.5	12.0	18.9	19.7	20.6	20.6	20.6	21.4	21.4
90°	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5	24.3	23.4
95°	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6	82.8	79.9
97.5°	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5	191.1	185.5
100°	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1	268.3	261.6
102.5°	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4	334.3	328.6
105°	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5	411.3	408.2
107.5°	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1	451.3	452.1
110°	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6	461.6	464.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3	455.0	459.9
115°	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9	432.8	439.6
117.5°	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2	402.1	409.6
120°	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2	381.5	388.9
122.5°	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4	360.9	368.1
125°	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2	333.5	340.2
127.5°	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6	311.6	317.2
130°	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0	297.7	302.9
132.5°	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9	285.9	290.5
135°	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3	269.2	273.2
137.5°	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0	256.9	260.2
140°	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1	247.0	250.1
142.5°	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4	240.1	242.7
145°	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0	229.7	231.6
147.5°	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2	221.0	222.6
150°	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9	215.9	217.3
152.5°	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2	212.0	213.0
155°	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1	207.2	207.9
157.5°	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3	203.1	203.6
160°	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0	201.1	201.3
162.5°	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7	199.2	199.4
165°	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7	196.2	196.4
167.5°	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3	194.9	195.0
170°	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3	194.9	194.9
172.5°	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6	193.9	193.8
175°	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7	192.5	192.5
177.5°	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6	192.3	192.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	931.4	928.9	931.4	929.7	930.6	928.0	920.2	917.7	920.2	922.8	922.8
5°	942.6	940.8	942.6	942.6	941.8	940.0	931.4	929.7	931.4	932.3	930.6
7.5°	946.0	943.5	946.0	944.3	944.3	942.6	934.0	932.3	933.1	935.7	933.1
10°	946.0	943.5	946.0	945.2	944.3	942.6	934.0	930.6	930.6	933.1	930.6
12.5°	941.8	940.0	941.8	940.0	940.0	938.3	929.7	926.2	927.2	928.0	924.5
15°	934.8	932.3	934.8	933.1	934.0	931.4	921.9	918.5	918.5	920.2	914.3
17.5°	924.5	921.1	924.5	923.7	922.8	921.1	912.5	909.0	908.2	909.0	904.8
20°	912.5	909.9	912.5	911.6	911.6	908.2	899.7	895.3	895.3	895.3	891.0
22.5°	893.6	891.0	893.6	895.3	895.3	894.4	886.8	880.7	879.0	879.0	873.9
25°	872.2	869.6	872.2	872.2	871.3	872.2	869.6	866.1	863.5	861.0	855.8
27.5°	851.5	849.8	851.5	849.8	851.5	848.9	848.1	847.2	843.8	841.2	834.3
30°	830.9	829.2	830.9	829.2	827.5	825.7	821.4	819.7	823.1	821.4	810.2
32.5°	805.1	803.4	805.1	805.1	803.4	803.4	796.5	793.9	794.8	800.0	789.6
35°	778.5	775.9	778.5	777.6	778.5	775.9	771.6	770.8	767.3	773.3	765.6
37.5°	747.5	745.0	747.5	747.5	747.5	749.2	745.8	743.3	738.1	745.8	739.8
40°	715.8	712.3	715.8	714.9	715.8	717.5	715.8	714.1	708.8	714.9	709.7
42.5°	679.6	678.8	679.6	680.5	680.5	684.0	686.5	683.1	681.3	677.1	680.5
45°	641.0	639.2	641.0	642.7	643.6	645.3	653.0	653.0	650.4	643.6	648.7
47.5°	599.8	595.4	599.8	604.9	604.9	607.5	615.2	621.2	616.9	608.3	611.0
50°	556.0	556.8	556.0	559.4	559.4	568.8	574.8	580.8	585.2	574.8	562.8
52.5°	513.0	512.1	513.0	515.6	519.0	523.2	533.6	539.6	546.5	540.5	521.5
55°	470.0	471.7	470.0	470.9	472.6	475.2	490.6	496.7	509.5	501.8	482.1
57.5°	427.1	424.5	427.1	428.8	429.6	432.2	445.1	456.3	464.0	464.8	440.8
60°	377.2	373.8	377.2	385.0	386.7	388.4	400.4	410.8	417.6	420.1	395.3
62.5°	333.4	327.4	333.4	338.6	342.0	346.3	354.9	370.3	376.3	377.2	342.0
65°	287.0	284.4	287.0	297.3	298.2	303.3	312.8	324.0	336.8	335.1	284.4
67.5°	244.9	244.9	244.9	251.8	256.9	259.5	271.5	276.7	293.0	294.8	237.2
70°	206.2	205.3	206.2	211.4	214.8	220.8	232.0	238.0	250.9	255.2	192.4
72.5°	169.3	168.4	169.3	173.6	177.0	182.2	191.6	198.5	209.7	214.8	149.5
75°	136.7	134.9	136.7	140.1	139.2	146.1	153.8	160.7	171.0	174.4	110.9
77.5°	104.8	104.8	104.8	108.3	108.3	115.1	118.6	127.2	133.2	138.4	81.7
80°	78.2	77.3	78.2	79.1	79.1	82.5	88.5	94.6	99.7	99.7	55.9
82.5°	55.0	53.3	55.0	55.0	55.0	56.7	60.1	61.8	65.3	67.9	35.2
85°	34.3	34.3	34.3	35.2	34.3	36.1	37.0	38.7	38.7	37.0	21.4
87.5°	22.4	21.4	22.4	21.4	21.4	20.6	20.6	20.6	19.7	18.9	12.0
90°	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4	5.6	3.6
92.5°	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3	34.8	24.8
95°	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6	85.7	48.3
97.5°	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6	115.4	53.0
100°	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6	126.2	57.0
102.5°	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8	131.2	61.0
105°	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5	134.9	66.9
107.5°	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5	135.6	75.6
110°	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6	134.5	80.5



TEST NUMBER: P933837

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8	134.5	86.4
115°	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9	135.8	95.2
117.5°	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3	138.3	103.8
120°	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5	140.4	108.8
122.5°	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5	143.3	114.7
125°	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7	147.3	122.3
127.5°	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2	151.3	129.6
130°	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5	154.2	134.4
132.5°	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7	156.6	138.5
135°	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6	159.1	143.1
137.5°	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7	163.0	149.0
140°	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8	165.4	153.0
142.5°	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4	167.2	155.9
145°	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4	169.9	160.4
147.5°	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7	173.6	166.0
150°	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4	175.6	169.0
152.5°	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8	176.9	170.9
155°	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8	179.7	175.2
157.5°	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7	182.5	179.4
160°	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1	183.8	181.3
162.5°	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6	185.2	183.4
165°	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2	187.1	186.3
167.5°	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6	188.7	188.0
170°	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0	190.0	189.9
172.5°	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3	190.8	191.2
177.5°	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5	190.9	191.2
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P933837

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	921.1	916.0	916.0	907.3	903.9	901.4	897.0	884.2	880.7	877.3	882.4
5°	928.9	919.4	912.5	897.0	884.2	879.0	862.7	831.7	811.1	795.6	787.1
7.5°	930.6	918.5	905.6	881.5	850.6	836.9	787.1	730.4	714.9	701.2	692.5
10°	928.9	915.1	897.0	861.0	787.9	763.8	714.1	677.1	667.6	665.0	667.6
12.5°	922.8	909.9	885.0	824.8	722.6	706.3	677.1	655.6	653.8	658.2	681.3
15°	912.5	900.5	871.3	776.7	686.5	674.5	653.8	646.1	655.6	685.7	755.3
17.5°	902.2	888.5	852.3	729.5	659.0	650.4	635.8	651.3	704.6	745.0	768.1
20°	888.5	872.2	830.9	695.1	639.2	631.5	624.6	694.2	734.6	749.2	762.1
22.5°	872.2	854.9	801.7	671.1	618.6	612.7	616.9	718.3	734.6	745.0	756.2
25°	850.6	836.0	767.3	652.1	602.3	595.4	611.8	715.8	725.2	727.8	750.1
27.5°	830.9	811.9	731.2	635.0	582.6	580.0	616.1	704.6	711.5	714.1	738.1
30°	806.8	778.5	690.8	616.9	561.9	561.1	616.9	690.8	689.1	695.9	720.0
32.5°	781.9	728.7	645.3	594.6	542.2	541.3	611.0	670.2	668.5	677.9	695.9
35°	758.7	690.0	583.5	568.8	517.3	518.1	596.3	646.1	647.0	655.6	666.7
37.5°	734.6	656.5	515.6	540.5	493.2	493.2	576.5	623.8	622.1	624.6	640.2
40°	706.3	604.0	455.4	503.5	470.9	468.3	552.4	599.8	593.7	592.9	614.4
42.5°	676.2	546.5	410.8	454.6	445.1	441.7	523.2	570.6	559.4	561.9	589.4
45°	643.6	531.0	376.3	384.1	418.4	415.9	491.5	537.0	529.3	536.1	564.5
47.5°	611.0	500.1	365.1	318.8	390.1	389.2	456.3	504.4	500.1	506.9	537.0
50°	566.2	465.7	364.3	273.2	358.3	361.7	414.2	472.6	472.6	478.6	510.4
52.5°	508.6	423.6	330.8	247.4	321.3	331.7	377.2	445.1	446.8	452.9	481.1
55°	456.3	379.7	306.7	227.7	277.5	299.9	341.1	416.7	420.1	426.2	451.9
57.5°	408.1	316.2	301.6	204.5	237.2	258.6	309.4	389.2	390.9	396.1	421.0
60°	356.6	228.6	276.7	179.5	201.9	218.2	280.1	356.6	362.6	366.0	387.5
62.5°	298.2	165.9	250.9	162.4	184.7	188.2	256.1	325.7	333.4	335.9	348.8
65°	212.3	139.2	213.1	147.8	166.7	167.6	230.3	293.8	300.7	305.0	314.5
67.5°	143.5	113.4	162.4	134.0	153.0	153.8	205.3	256.9	266.4	269.8	275.8
70°	99.7	75.6	120.3	119.4	137.5	139.2	178.7	223.4	232.0	234.5	238.0
72.5°	73.0	61.0	99.7	107.4	121.1	122.9	151.3	185.6	194.2	196.8	198.5
75°	55.9	64.4	80.8	93.7	103.1	103.9	123.8	151.3	157.2	159.0	159.8
77.5°	44.7	60.1	59.3	75.6	84.2	82.5	97.1	116.8	122.0	122.0	122.0
80°	33.5	47.2	44.7	54.2	61.8	60.1	69.6	83.4	85.1	86.8	85.9
82.5°	24.9	30.1	30.1	34.3	41.3	39.5	46.4	54.2	54.2	54.2	55.9
85°	15.5	17.2	13.8	18.0	23.2	22.4	25.8	29.2	30.1	30.1	28.4
87.5°	9.5	7.8	4.3	6.8	10.3	10.3	12.0	12.9	12.0	12.0	12.0
90°	3.3	2.3	1.3	2.3	3.3	3.6	5.6	8.4	9.7	8.6	6.5
92.5°	22.5	13.8	5.1	13.8	22.5	24.8	34.8	48.3	54.9	48.1	34.5
95°	44.2	28.3	12.3	28.3	44.2	48.3	85.7	135.6	160.5	143.2	108.6
97.5°	49.5	35.4	21.3	35.4	49.5	53.0	115.4	198.6	240.2	229.2	207.5
100°	53.8	41.0	28.3	41.0	53.8	57.0	126.2	218.6	264.7	265.5	267.1
102.5°	58.0	46.1	34.2	46.1	58.0	61.0	131.2	224.8	271.6	285.5	313.4
105°	64.3	54.2	44.2	54.2	64.3	66.9	134.9	225.5	270.8	302.0	364.5
107.5°	73.2	63.8	54.4	63.8	73.2	75.6	135.6	215.5	255.5	299.0	386.1
110°	78.3	69.9	61.3	69.9	78.3	80.5	134.5	206.6	242.7	291.3	388.6



TEST NUMBER: P933837

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	84.3	76.3	68.2	76.3	84.3	86.4	134.5	198.8	231.0	280.8	380.3
115°	93.4	85.9	78.4	85.9	93.4	95.2	135.8	189.9	216.9	265.0	360.9
117.5°	102.1	95.3	88.6	95.3	102.1	103.8	138.3	184.3	207.4	250.7	337.2
120°	107.2	100.9	94.5	100.9	107.2	108.8	140.4	182.5	203.5	243.1	322.2
122.5°	113.1	106.7	100.2	106.7	113.1	114.7	143.3	181.5	200.5	236.2	307.4
125°	120.9	115.0	109.1	115.0	120.9	122.3	147.3	180.7	197.4	227.6	288.2
127.5°	128.1	122.1	116.2	122.1	128.1	129.6	151.3	180.2	194.7	220.6	272.6
130°	132.8	126.5	120.1	126.5	132.8	134.4	154.2	180.5	193.6	216.8	263.0
132.5°	136.8	130.5	124.1	130.5	136.8	138.5	156.6	180.7	192.8	213.4	254.9
135°	141.6	135.8	130.0	135.8	141.6	143.1	159.1	180.6	191.2	208.6	243.3
137.5°	147.5	141.8	136.1	141.8	147.5	149.0	163.0	181.7	191.0	205.7	235.0
140°	151.6	146.3	141.0	146.3	151.6	153.0	165.4	181.8	190.0	202.7	228.1
142.5°	154.7	149.7	144.9	149.7	154.7	155.9	167.2	182.4	190.0	201.1	223.4
145°	159.3	155.0	150.8	155.0	159.3	160.4	169.9	182.4	188.8	197.8	216.0
147.5°	165.0	160.8	156.6	160.8	165.0	166.0	173.6	183.7	188.8	195.9	210.2
150°	168.1	164.2	160.5	164.2	168.1	169.0	175.6	184.4	188.8	194.8	206.9
152.5°	170.2	167.3	164.5	167.3	170.2	170.9	176.9	184.8	188.8	193.9	204.2
155°	174.7	172.5	170.4	172.5	174.7	175.2	179.7	185.8	188.8	192.9	201.1
157.5°	178.9	176.8	174.8	176.8	178.9	179.4	182.5	186.7	188.8	191.9	198.3
160°	180.9	179.4	177.7	179.4	180.9	181.3	183.8	187.1	188.8	191.5	197.0
162.5°	183.0	181.8	180.6	181.8	183.0	183.4	185.2	187.6	188.8	191.1	195.7
165°	186.0	184.9	183.9	184.9	186.0	186.3	187.1	188.2	188.8	190.4	193.7
167.5°	187.8	187.3	186.8	187.3	187.8	188.0	188.7	189.6	190.0	191.2	193.3
170°	189.8	189.3	188.8	189.3	189.8	189.9	190.0	190.0	190.0	191.2	193.3
172.5°	190.0	189.9	189.8	189.9	190.0	190.0	190.0	190.0	190.0	190.9	192.6
175°	191.2	191.2	191.2	191.2	191.2	191.2	190.8	190.3	190.0	190.6	191.7
177.5°	191.2	191.2	191.2	191.2	191.2	191.2	190.9	190.5	190.3	190.7	191.6
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



TEST NUMBER: P933837

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2	908.2
2.5°	876.4	873.9	877.3	867.8	877.3	873.9	876.4	882.4	877.3	880.7	884.2
5°	769.1	764.7	750.9	739.8	750.9	764.7	769.1	787.1	795.6	811.1	831.7
7.5°	687.4	684.0	680.5	673.7	680.5	684.0	687.4	692.5	701.2	714.9	730.4
10°	669.4	670.2	675.4	674.5	675.4	670.2	669.4	667.6	665.0	667.6	677.1
12.5°	715.8	723.4	751.8	750.1	751.8	723.4	715.8	681.3	658.2	653.8	655.6
15°	769.1	771.6	777.6	778.5	777.6	771.6	769.1	755.3	685.7	655.6	646.1
17.5°	774.2	775.0	779.3	779.3	779.3	775.0	774.2	768.1	745.0	704.6	651.3
20°	769.9	771.6	780.2	781.9	780.2	771.6	769.9	762.1	749.2	734.6	694.2
22.5°	768.1	771.6	778.5	777.6	778.5	771.6	768.1	756.2	745.0	734.6	718.3
25°	759.6	759.6	760.4	761.3	760.4	759.6	759.6	750.1	727.8	725.2	715.8
27.5°	741.6	743.3	748.4	747.5	748.4	743.3	741.6	738.1	714.1	711.5	704.6
30°	725.2	723.4	719.2	715.8	719.2	723.4	725.2	720.0	695.9	689.1	690.8
32.5°	697.7	693.4	689.1	686.5	689.1	693.4	697.7	695.9	677.9	668.5	670.2
35°	665.0	665.9	665.0	662.5	665.0	665.9	665.0	666.7	655.6	647.0	646.1
37.5°	641.9	643.6	642.7	639.2	642.7	643.6	641.9	640.2	624.6	622.1	623.8
40°	617.8	618.6	617.8	615.2	617.8	618.6	617.8	614.4	592.9	593.7	599.8
42.5°	594.6	593.7	591.1	589.4	591.1	593.7	594.6	589.4	561.9	559.4	570.6
45°	568.0	568.8	563.6	561.1	563.6	568.8	568.0	564.5	536.1	529.3	537.0
47.5°	541.3	541.3	537.0	534.4	537.0	541.3	541.3	537.0	506.9	500.1	504.4
50°	513.0	512.1	506.1	505.2	506.1	512.1	513.0	510.4	478.6	472.6	472.6
52.5°	480.3	480.3	481.1	482.9	481.1	480.3	480.3	481.1	452.9	446.8	445.1
55°	451.9	452.9	458.8	460.5	458.8	452.9	451.9	451.9	426.2	420.1	416.7
57.5°	422.7	422.7	427.1	427.1	427.1	422.7	422.7	421.0	396.1	390.9	389.2
60°	389.2	390.9	394.4	393.5	394.4	390.9	389.2	387.5	366.0	362.6	356.6
62.5°	354.0	355.7	356.6	354.9	356.6	355.7	354.0	348.8	335.9	333.4	325.7
65°	317.1	318.8	319.6	317.9	319.6	318.8	317.1	314.5	305.0	300.7	293.8
67.5°	279.2	278.4	277.5	281.0	277.5	278.4	279.2	275.8	269.8	266.4	256.9
70°	240.6	240.6	239.8	241.5	239.8	240.6	240.6	238.0	234.5	232.0	223.4
72.5°	199.4	198.5	201.9	199.4	201.9	198.5	199.4	198.5	196.8	194.2	185.6
75°	159.0	160.7	159.0	161.5	159.0	160.7	159.0	159.8	159.0	157.2	151.3
77.5°	121.1	122.9	121.1	121.1	121.1	122.9	121.1	122.0	122.0	122.0	116.8
80°	85.9	85.1	85.1	84.2	85.1	85.1	85.9	85.9	86.8	85.1	83.4
82.5°	55.0	54.2	54.2	55.9	54.2	54.2	55.0	55.9	54.2	54.2	54.2
85°	30.1	30.9	29.2	29.2	29.2	30.9	30.1	28.4	30.1	30.1	29.2
87.5°	11.2	10.3	10.3	10.3	10.3	10.3	11.2	12.0	12.0	12.0	12.9
90°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.6	9.7	8.4
92.5°	24.3	23.4	19.5	15.6	19.5	23.4	24.3	34.5	48.1	54.9	48.3
95°	82.8	79.9	68.1	56.4	68.1	79.9	82.8	108.6	143.2	160.5	135.6
97.5°	191.1	185.5	163.1	140.8	163.1	185.5	191.1	207.5	229.2	240.2	198.6
100°	268.3	261.6	235.1	208.4	235.1	261.6	268.3	267.1	265.5	264.7	218.6
102.5°	334.3	328.6	305.8	283.0	305.8	328.6	334.3	313.4	285.5	271.6	224.8
105°	411.3	408.2	396.0	383.7	396.0	408.2	411.3	364.5	302.0	270.8	225.5
107.5°	451.3	452.1	455.0	458.0	455.0	452.1	451.3	386.1	299.0	255.5	215.5
110°	461.6	464.7	477.5	490.4	477.5	464.7	461.6	388.6	291.3	242.7	206.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	455.0	459.9	479.5	499.2	479.5	459.9	455.0	380.3	280.8	231.0	198.8
115°	432.8	439.6	466.8	494.0	466.8	439.6	432.8	360.9	265.0	216.9	189.9
117.5°	402.1	409.6	439.9	470.0	439.9	409.6	402.1	337.2	250.7	207.4	184.3
120°	381.5	388.9	418.2	447.5	418.2	388.9	381.5	322.2	243.1	203.5	182.5
122.5°	360.9	368.1	397.0	425.9	397.0	368.1	360.9	307.4	236.2	200.5	181.5
125°	333.5	340.2	366.8	393.4	366.8	340.2	333.5	288.2	227.6	197.4	180.7
127.5°	311.6	317.2	339.7	362.2	339.7	317.2	311.6	272.6	220.6	194.7	180.2
130°	297.7	302.9	323.6	344.4	323.6	302.9	297.7	263.0	216.8	193.6	180.5
132.5°	285.9	290.5	309.1	327.7	309.1	290.5	285.9	254.9	213.4	192.8	180.7
135°	269.2	273.2	289.2	305.3	289.2	273.2	269.2	243.3	208.6	191.2	180.6
137.5°	256.9	260.2	273.3	286.4	273.3	260.2	256.9	235.0	205.7	191.0	181.7
140°	247.0	250.1	262.3	274.6	262.3	250.1	247.0	228.1	202.7	190.0	181.8
142.5°	240.1	242.7	253.2	263.8	253.2	242.7	240.1	223.4	201.1	190.0	182.4
145°	229.7	231.6	239.7	247.7	239.7	231.6	229.7	216.0	197.8	188.8	182.4
147.5°	221.0	222.6	229.2	235.8	229.2	222.6	221.0	210.2	195.9	188.8	183.7
150°	215.9	217.3	222.7	228.1	222.7	217.3	215.9	206.9	194.8	188.8	184.4
152.5°	212.0	213.0	217.0	221.1	217.0	213.0	212.0	204.2	193.9	188.8	184.8
155°	207.2	207.9	210.5	213.3	210.5	207.9	207.2	201.1	192.9	188.8	185.8
157.5°	203.1	203.6	205.5	207.4	205.5	203.6	203.1	198.3	191.9	188.8	186.7
160°	201.1	201.3	202.4	203.5	202.4	201.3	201.1	197.0	191.5	188.8	187.1
162.5°	199.2	199.4	200.5	201.5	200.5	199.4	199.2	195.7	191.1	188.8	187.6
165°	196.2	196.4	197.6	198.7	197.6	196.4	196.2	193.7	190.4	188.8	188.2
167.5°	194.9	195.0	195.5	195.9	195.5	195.0	194.9	193.3	191.2	190.0	189.6
170°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	193.3	191.2	190.0	190.0
172.5°	193.9	193.8	193.4	193.0	193.4	193.8	193.9	192.6	190.9	190.0	190.0
175°	192.5	192.5	192.5	192.5	192.5	192.5	192.5	191.7	190.6	190.0	190.3
177.5°	192.3	192.2	191.7	191.2	191.7	192.2	192.3	191.6	190.7	190.3	190.5
180°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	908.2	908.2	908.2	908.2	908.2
2.5°	897.0	901.4	903.9	907.3	916.0
5°	862.7	879.0	884.2	897.0	912.5
7.5°	787.1	836.9	850.6	881.5	905.6
10°	714.1	763.8	787.9	861.0	897.0
12.5°	677.1	706.3	722.6	824.8	885.0
15°	653.8	674.5	686.5	776.7	871.3
17.5°	635.8	650.4	659.0	729.5	852.3
20°	624.6	631.5	639.2	695.1	830.9
22.5°	616.9	612.7	618.6	671.1	801.7
25°	611.8	595.4	602.3	652.1	767.3
27.5°	616.1	580.0	582.6	635.0	731.2
30°	616.9	561.1	561.9	616.9	690.8
32.5°	611.0	541.3	542.2	594.6	645.3
35°	596.3	518.1	517.3	568.8	583.5
37.5°	576.5	493.2	493.2	540.5	515.6
40°	552.4	468.3	470.9	503.5	455.4
42.5°	523.2	441.7	445.1	454.6	410.8
45°	491.5	415.9	418.4	384.1	376.3
47.5°	456.3	389.2	390.1	318.8	365.1
50°	414.2	361.7	358.3	273.2	364.3
52.5°	377.2	331.7	321.3	247.4	330.8
55°	341.1	299.9	277.5	227.7	306.7
57.5°	309.4	258.6	237.2	204.5	301.6
60°	280.1	218.2	201.9	179.5	276.7
62.5°	256.1	188.2	184.7	162.4	250.9
65°	230.3	167.6	166.7	147.8	213.1
67.5°	205.3	153.8	153.0	134.0	162.4
70°	178.7	139.2	137.5	119.4	120.3
72.5°	151.3	122.9	121.1	107.4	99.7
75°	123.8	103.9	103.1	93.7	80.8
77.5°	97.1	82.5	84.2	75.6	59.3
80°	69.6	60.1	61.8	54.2	44.7
82.5°	46.4	39.5	41.3	34.3	30.1
85°	25.8	22.4	23.2	18.0	13.8
87.5°	12.0	10.3	10.3	6.8	4.3
90°	5.6	3.6	3.3	2.3	1.3
92.5°	34.8	24.8	22.5	13.8	5.1
95°	85.7	48.3	44.2	28.3	12.3
97.5°	115.4	53.0	49.5	35.4	21.3
100°	126.2	57.0	53.8	41.0	28.3
102.5°	131.2	61.0	58.0	46.1	34.2
105°	134.9	66.9	64.3	54.2	44.2
107.5°	135.6	75.6	73.2	63.8	54.4
110°	134.5	80.5	78.3	69.9	61.3



TEST NUMBER: P933837

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-6-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	134.5	86.4	84.3	76.3	68.2
115°	135.8	95.2	93.4	85.9	78.4
117.5°	138.3	103.8	102.1	95.3	88.6
120°	140.4	108.8	107.2	100.9	94.5
122.5°	143.3	114.7	113.1	106.7	100.2
125°	147.3	122.3	120.9	115.0	109.1
127.5°	151.3	129.6	128.1	122.1	116.2
130°	154.2	134.4	132.8	126.5	120.1
132.5°	156.6	138.5	136.8	130.5	124.1
135°	159.1	143.1	141.6	135.8	130.0
137.5°	163.0	149.0	147.5	141.8	136.1
140°	165.4	153.0	151.6	146.3	141.0
142.5°	167.2	155.9	154.7	149.7	144.9
145°	169.9	160.4	159.3	155.0	150.8
147.5°	173.6	166.0	165.0	160.8	156.6
150°	175.6	169.0	168.1	164.2	160.5
152.5°	176.9	170.9	170.2	167.3	164.5
155°	179.7	175.2	174.7	172.5	170.4
157.5°	182.5	179.4	178.9	176.8	174.8
160°	183.8	181.3	180.9	179.4	177.7
162.5°	185.2	183.4	183.0	181.8	180.6
165°	187.1	186.3	186.0	184.9	183.9
167.5°	188.7	188.0	187.8	187.3	186.8
170°	190.0	189.9	189.8	189.3	188.8
172.5°	190.0	190.0	190.0	189.9	189.8
175°	190.8	191.2	191.2	191.2	191.2
177.5°	190.9	191.2	191.2	191.2	191.2
180°	191.2	191.2	191.2	191.2	191.2



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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	12.12	13.14	12.93	13.98	15.01	14.95	15.97	15.76	16.80	17.83
	3H	12.61	13.53	13.43	14.37	15.43	16.30	17.22	17.13	18.06	19.12
	4H	12.81	13.67	13.65	14.52	15.59	16.75	17.62	17.59	18.47	19.54
	6H	12.94	13.73	13.79	14.59	15.67	17.04	17.84	17.90	18.70	19.78
	8H	12.94	13.70	13.80	14.58	15.66	17.12	17.88	17.98	18.76	19.84
	12H	12.92	13.64	13.79	14.51	15.62	17.17	17.89	18.03	18.76	19.87
4H	2H	13.17	14.04	14.02	14.89	15.96	15.37	16.24	16.22	17.09	18.16
	3H	14.21	14.93	15.07	15.82	16.90	16.89	17.61	17.75	18.50	19.58
	4H	14.50	15.15	15.37	16.03	17.15	17.43	18.08	18.30	18.96	20.08
	6H	14.63	15.20	15.52	16.10	17.22	17.80	18.37	18.69	19.27	20.39
	8H	14.64	15.17	15.53	16.07	17.20	17.91	18.44	18.80	19.34	20.47
	12H	14.61	15.09	15.52	16.01	17.14	17.97	18.45	18.88	19.37	20.50
8H	4H	14.96	15.49	15.85	16.39	17.52	17.56	18.09	18.45	18.99	20.12
	6H	15.23	15.67	16.15	16.61	17.74	18.01	18.44	18.92	19.39	20.51
	8H	15.27	15.66	16.20	16.60	17.74	18.16	18.55	19.09	19.48	20.63
	12H	15.27	15.61	16.19	16.53	17.73	18.26	18.61	19.19	19.53	20.73
12H	4H	14.98	15.45	15.88	16.37	17.51	17.54	18.01	18.45	18.93	20.07
	6H	15.29	15.68	16.22	16.61	17.76	18.00	18.39	18.93	19.33	20.47
	8H	15.37	15.71	16.30	16.63	17.83	18.17	18.51	19.10	19.44	20.64