

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: P933931

Luminaire Tested: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933931
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

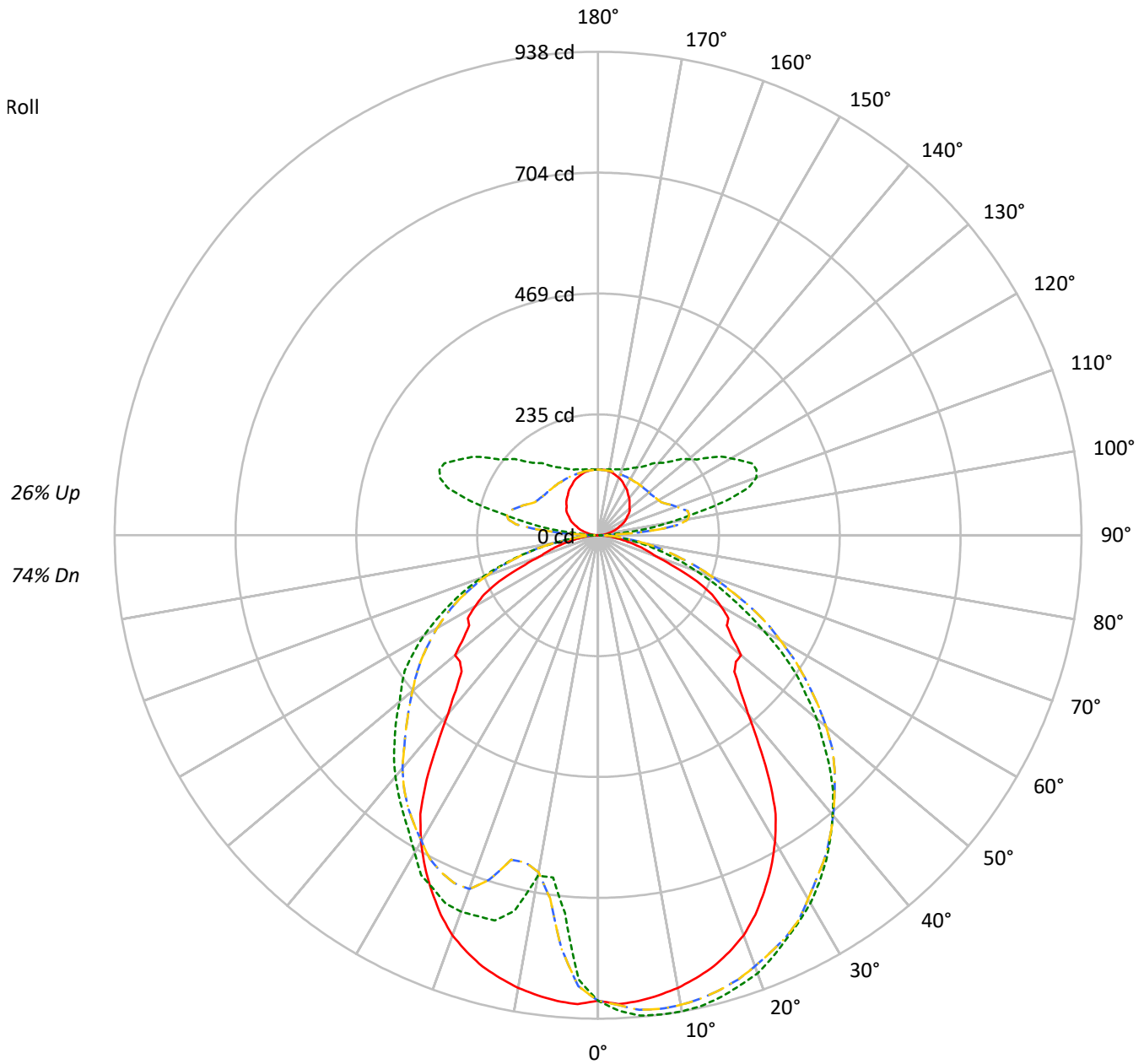
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3167.9 lumens
Efficiency: N/A
Efficacy: 105.6 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): 30
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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74			
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	62			
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	52			
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	44			
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	38			
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	33			
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	29			
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	26			
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	23			
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	21			
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	19			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8378	8378	8378	8378
5°	8432	8458	8432	6650
10°	8366	8332	8366	5956
15°	8266	8151	8266	6806
20°	8083	7937	8083	6820
25°	7720	7625	7720	6675
30°	7254	7366	7254	6359
35°	6457	7039	6457	6010
40°	5372	6653	5372	5746
45°	4791	6202	4791	5443
50°	5077	5664	5077	5139
55°	4764	5084	4764	4963
60°	4892	4318	4892	4546
65°	4414	3568	4414	3990
70°	3036	2843	3036	3344
75°	2633	2102	2633	2518
80°	2078	1390	2078	1513
85°	1134	737	1134	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7356 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.6
10°-20°	231.4	7.3
20°-30°	357.7	11.3
30°-40°	427.0	13.5
40°-50°	429.6	13.6
50°-60°	373.8	11.8
60°-70°	265.0	8.4
70°-80°	140.2	4.4
80°-90°	35.4	1.1
90°-100°	62.1	2.0
100°-110°	163.4	5.2
110°-120°	169.4	5.3
120°-130°	135.8	4.3
130°-140°	106.6	3.4
140°-150°	81.8	2.6
150°-160°	58.9	1.9
160°-170°	36.0	1.1
170°-180°	12.2	0.4
0°-30°	670.6	21.2
0°-40°	1097.7	34.7
0°-60°	1901.0	60.0
0°-90°	2341.6	73.9
90°-120°	394.9	12.5
90°-150°	719.1	22.7
90°-180°	826.0	26.1
0°-180°	3167.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	903	903	903	903	903	
5°	907	935	907	736	907	86
15°	866	927	866	774	866	244
25°	763	864	763	757	763	350
35°	580	771	580	659	580	359
45°	374	636	374	558	374	300
55°	305	469	305	458	305	280
65°	212	283	212	316	212	202
75°	80	134	80	161	80	84
85°	14	34	14	29	14	18
90°	1	3	1	3	1	1
95°	8	38	8	38	8	9
105°	30	256	30	256	30	31
115°	52	329	52	329	52	52
125°	73	262	73	262	73	65
135°	87	204	87	204	87	67
145°	100	165	100	165	100	63
155°	114	142	114	142	114	52
165°	123	132	123	132	123	35
175°	127	128	127	128	127	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	910.6	910.6	915.8	917.5	917.5	914.9	912.4	914.9	922.6	925.2	924.3
5°	907.2	914.1	923.5	925.2	926.9	926.0	924.3	926.0	934.6	936.3	937.1
7.5°	900.3	913.2	925.2	927.8	930.3	927.8	926.9	928.6	937.1	938.9	938.9
10°	891.8	909.7	923.5	925.2	927.8	925.2	925.2	928.6	937.1	938.9	939.7
12.5°	879.8	904.6	917.5	919.2	922.6	921.8	920.9	924.3	932.9	934.6	934.6
15°	866.2	895.2	907.2	908.9	914.9	913.2	913.2	916.7	926.0	928.6	927.8
17.5°	847.4	883.3	896.9	899.5	903.8	902.9	903.8	907.2	915.8	917.5	918.4
20°	826.0	867.0	883.3	885.8	890.1	890.1	890.1	894.4	902.9	906.3	906.3
22.5°	797.0	849.9	867.0	868.7	873.9	873.9	875.6	881.5	889.2	890.1	890.1
25°	762.8	831.2	845.7	850.8	855.9	858.5	861.0	864.5	867.0	866.2	867.0
27.5°	726.9	807.2	826.0	829.4	836.3	838.8	842.3	843.1	844.0	846.5	844.8
30°	686.8	773.9	802.1	805.5	816.6	818.3	814.9	816.6	820.9	822.6	824.3
32.5°	641.5	724.4	777.3	785.0	795.3	790.2	789.3	791.9	798.7	798.7	800.4
35°	580.0	686.0	754.3	761.1	768.8	762.8	766.2	767.1	771.4	773.9	773.1
37.5°	512.6	652.6	730.4	735.5	741.5	733.8	738.9	741.5	744.9	743.2	743.2
40°	452.8	600.5	702.2	705.6	710.7	704.7	709.9	711.6	713.3	711.6	710.7
42.5°	408.4	543.3	672.3	676.6	673.1	677.4	679.1	682.5	680.0	676.6	676.6
45°	374.2	527.9	639.8	645.0	639.8	646.7	649.2	649.2	641.5	639.8	639.0
47.5°	363.1	497.2	607.4	607.4	604.8	613.3	617.6	611.6	604.0	601.4	601.4
50°	362.2	463.0	563.0	559.5	571.5	581.7	577.5	571.5	565.5	556.1	556.1
52.5°	328.9	421.2	505.7	518.5	537.3	543.3	536.5	530.5	520.2	516.0	512.6
55°	305.0	377.6	453.6	479.3	498.9	506.6	493.8	487.8	472.4	469.9	468.1
57.5°	299.8	314.4	405.8	438.3	462.2	461.3	453.6	442.5	429.7	427.1	426.3
60°	275.0	227.2	354.5	393.0	417.8	415.2	408.4	398.1	386.2	384.4	382.7
62.5°	249.4	164.8	296.4	340.0	375.0	374.2	368.2	352.8	344.3	340.0	336.6
65°	211.8	138.4	211.0	282.7	333.2	334.9	322.1	311.0	301.5	296.4	295.5
67.5°	161.4	112.7	142.6	235.7	293.0	291.3	275.0	269.9	257.9	255.4	250.3
70°	119.6	75.2	99.1	191.3	253.7	249.4	236.6	230.6	219.5	213.5	210.1
72.5°	99.1	60.6	72.6	148.6	213.5	208.4	197.3	190.5	181.1	176.0	172.5
75°	80.3	64.1	55.5	110.2	173.4	170.0	159.7	152.9	145.2	138.4	139.2
77.5°	58.9	59.8	44.4	81.1	137.5	132.4	126.4	117.9	114.5	107.6	107.6
80°	44.4	47.0	33.3	55.5	99.1	99.1	94.0	88.0	82.0	78.6	78.6
82.5°	29.9	29.9	24.8	35.0	67.5	64.9	61.5	59.8	56.4	54.7	54.7
85°	13.7	17.1	15.4	21.4	36.7	38.4	38.4	36.7	35.9	34.2	35.0
87.5°	4.3	7.7	9.4	12.0	18.8	19.6	20.5	20.5	20.5	21.4	21.4
90°	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4	3.2	3.2
92.5°	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1	16.2	15.5
95°	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4	55.2	53.2
97.5°	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3	127.4	123.6
100°	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1	178.9	174.4
102.5°	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9	222.8	219.0
105°	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0	274.2	272.1
107.5°	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3	300.9	301.4
110°	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1	307.7	309.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6	303.4	306.6
115°	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6	288.5	293.1
117.5°	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8	268.1	273.2
120°	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8	254.4	259.2
122.5°	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9	240.5	245.3
125°	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1	222.3	226.8
127.5°	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8	207.7	211.5
130°	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4	198.5	201.9
132.5°	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9	190.6	193.7
135°	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1	179.5	182.1
137.5°	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6	171.3	173.5
140°	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0	164.7	166.7
142.5°	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0	160.1	161.9
145°	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0	153.1	154.5
147.5°	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2	147.3	148.4
150°	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9	144.0	144.9
152.5°	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1	141.4	142.0
155°	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1	138.2	138.6
157.5°	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2	135.4	135.7
160°	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3	134.0	134.2
162.5°	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4	132.7	132.9
165°	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1	130.8	130.9
167.5°	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8	129.9	130.0
170°	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8	129.9	129.9
172.5°	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4	129.2	129.1
175°	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8	128.3	128.3
177.5°	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7	128.1	128.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	926.0	923.5	926.0	924.3	925.2	922.6	914.9	912.4	914.9	917.5	917.5
5°	937.1	935.4	937.1	937.1	936.3	934.6	926.0	924.3	926.0	926.9	925.2
7.5°	940.6	938.0	940.6	938.9	938.9	937.1	928.6	926.9	927.8	930.3	927.8
10°	940.6	938.0	940.6	939.7	938.9	937.1	928.6	925.2	925.2	927.8	925.2
12.5°	936.3	934.6	936.3	934.6	934.6	932.9	924.3	920.9	921.8	922.6	919.2
15°	929.5	926.9	929.5	927.8	928.6	926.0	916.7	913.2	913.2	914.9	908.9
17.5°	919.2	915.8	919.2	918.4	917.5	915.8	907.2	903.8	902.9	903.8	899.5
20°	907.2	904.6	907.2	906.3	906.3	902.9	894.4	890.1	890.1	890.1	885.8
22.5°	888.4	885.8	888.4	890.1	890.1	889.2	881.5	875.6	873.9	873.9	868.7
25°	867.0	864.5	867.0	867.0	866.2	867.0	864.5	861.0	858.5	855.9	850.8
27.5°	846.5	844.8	846.5	844.8	846.5	844.0	843.1	842.3	838.8	836.3	829.4
30°	826.0	824.3	826.0	824.3	822.6	820.9	816.6	814.9	818.3	816.6	805.5
32.5°	800.4	798.7	800.4	800.4	798.7	798.7	791.9	789.3	790.2	795.3	785.0
35°	773.9	771.4	773.9	773.1	773.9	771.4	767.1	766.2	762.8	768.8	761.1
37.5°	743.2	740.6	743.2	743.2	743.2	744.9	741.5	738.9	733.8	741.5	735.5
40°	711.6	708.2	711.6	710.7	711.6	713.3	711.6	709.9	704.7	710.7	705.6
42.5°	675.7	674.8	675.7	676.6	676.6	680.0	682.5	679.1	677.4	673.1	676.6
45°	637.3	635.6	637.3	639.0	639.8	641.5	649.2	649.2	646.7	639.8	645.0
47.5°	596.3	592.0	596.3	601.4	601.4	604.0	611.6	617.6	613.3	604.8	607.4
50°	552.7	553.6	552.7	556.1	556.1	565.5	571.5	577.5	581.7	571.5	559.5
52.5°	510.0	509.1	510.0	512.6	516.0	520.2	530.5	536.5	543.3	537.3	518.5
55°	467.3	469.0	467.3	468.1	469.9	472.4	487.8	493.8	506.6	498.9	479.3
57.5°	424.6	422.0	424.6	426.3	427.1	429.7	442.5	453.6	461.3	462.2	438.3
60°	375.0	371.6	375.0	382.7	384.4	386.2	398.1	408.4	415.2	417.8	393.0
62.5°	331.5	325.5	331.5	336.6	340.0	344.3	352.8	368.2	374.2	375.0	340.0
65°	285.3	282.7	285.3	295.5	296.4	301.5	311.0	322.1	334.9	333.2	282.7
67.5°	243.4	243.4	243.4	250.3	255.4	257.9	269.9	275.0	291.3	293.0	235.7
70°	205.0	204.1	205.0	210.1	213.5	219.5	230.6	236.6	249.4	253.7	191.3
72.5°	168.3	167.4	168.3	172.5	176.0	181.1	190.5	197.3	208.4	213.5	148.6
75°	135.8	134.1	135.8	139.2	138.4	145.2	152.9	159.7	170.0	173.4	110.2
77.5°	104.2	104.2	104.2	107.6	107.6	114.5	117.9	126.4	132.4	137.5	81.1
80°	77.7	76.9	77.7	78.6	78.6	82.0	88.0	94.0	99.1	99.1	55.5
82.5°	54.7	53.0	54.7	54.7	54.7	56.4	59.8	61.5	64.9	67.5	35.0
85°	34.2	34.2	34.2	35.0	34.2	35.9	36.7	38.4	38.4	36.7	21.4
87.5°	22.2	21.4	22.2	21.4	21.4	20.5	20.5	20.5	19.6	18.8	12.0
90°	3.2	3.2	3.2	3.2	3.2	4.4	5.8	6.5	5.6	3.8	2.4
92.5°	13.0	10.4	13.0	15.5	16.2	23.1	32.1	36.6	32.2	23.2	16.5
95°	45.4	37.6	45.4	53.2	55.2	72.4	95.5	107.0	90.4	57.1	32.2
97.5°	108.7	93.9	108.7	123.6	127.4	138.3	152.9	160.1	132.4	77.0	35.4
100°	156.7	139.0	156.7	174.4	178.9	178.1	177.0	176.5	145.7	84.1	38.0
102.5°	203.8	188.6	203.8	219.0	222.8	208.9	190.4	181.1	149.9	87.5	40.7
105°	264.0	255.8	264.0	272.1	274.2	243.0	201.4	180.6	150.3	89.9	44.6
107.5°	303.4	305.4	303.4	301.4	300.9	257.3	199.4	170.3	143.7	90.4	50.4
110°	318.3	326.9	318.3	309.9	307.7	259.1	194.2	161.8	137.8	89.7	53.6



TEST NUMBER: P933931

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	319.7	332.8	319.7	306.6	303.4	253.6	187.2	154.0	132.6	89.7	57.6
115°	311.2	329.4	311.2	293.1	288.5	240.6	176.6	144.7	126.7	90.5	63.5
117.5°	293.2	313.4	293.2	273.2	268.1	224.8	167.2	138.3	122.9	92.2	69.2
120°	278.8	298.3	278.8	259.2	254.4	214.8	162.0	135.6	121.6	93.5	72.5
122.5°	264.6	283.9	264.6	245.3	240.5	204.9	157.4	133.7	120.9	95.5	76.4
125°	244.5	262.3	244.5	226.8	222.3	192.1	151.7	131.5	120.4	98.2	81.6
127.5°	226.4	241.4	226.4	211.5	207.7	181.8	147.1	129.7	120.1	100.9	86.4
130°	215.8	229.6	215.8	201.9	198.5	175.4	144.5	129.1	120.3	102.8	89.7
132.5°	206.1	218.5	206.1	193.7	190.6	169.9	142.3	128.5	120.4	104.4	92.3
135°	192.9	203.5	192.9	182.1	179.5	162.1	139.0	127.4	120.3	106.1	95.4
137.5°	182.2	191.0	182.2	173.5	171.3	156.6	137.0	127.3	121.0	108.6	99.3
140°	174.8	183.0	174.8	166.7	164.7	152.0	135.1	126.7	121.2	110.2	102.0
142.5°	168.9	175.9	168.9	161.9	160.1	149.0	134.1	126.7	121.6	111.5	103.9
145°	159.8	165.1	159.8	154.5	153.1	144.0	131.9	125.8	121.6	113.3	106.9
147.5°	152.8	157.2	152.8	148.4	147.3	140.2	130.6	125.8	122.5	115.7	110.7
150°	148.4	152.0	148.4	144.9	144.0	137.9	129.8	125.8	122.9	117.0	112.7
152.5°	144.7	147.4	144.7	142.0	141.4	136.1	129.2	125.8	123.2	117.9	113.9
155°	140.4	142.2	140.4	138.6	138.2	134.1	128.5	125.8	123.8	119.7	116.8
157.5°	137.0	138.3	137.0	135.7	135.4	132.2	127.9	125.8	124.4	121.6	119.6
160°	135.0	135.6	135.0	134.2	134.0	131.3	127.6	125.8	124.7	122.5	120.9
162.5°	133.6	134.3	133.6	132.9	132.7	130.4	127.4	125.8	125.0	123.4	122.2
165°	131.7	132.4	131.7	130.9	130.8	129.1	126.9	125.8	125.5	124.7	124.2
167.5°	130.3	130.6	130.3	130.0	129.9	128.8	127.4	126.7	126.3	125.7	125.3
170°	129.9	129.9	129.9	129.9	129.9	128.8	127.4	126.7	126.7	126.6	126.6
172.5°	128.9	128.6	128.9	129.1	129.2	128.4	127.3	126.7	126.7	126.7	126.7
175°	128.3	128.3	128.3	128.3	128.3	127.8	127.0	126.7	126.8	127.2	127.4
177.5°	127.8	127.4	127.8	128.0	128.1	127.7	127.1	126.8	127.0	127.3	127.4
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



TEST NUMBER: P933931

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	915.8	910.6	910.6	902.0	898.6	896.1	891.8	879.0	875.6	872.2	877.3
5°	923.5	914.1	907.2	891.8	879.0	873.9	857.6	826.9	806.4	791.0	782.5
7.5°	925.2	913.2	900.3	876.4	845.7	832.0	782.5	726.1	710.7	697.1	688.5
10°	923.5	909.7	891.8	855.9	783.3	759.4	709.9	673.1	663.7	661.2	663.7
12.5°	917.5	904.6	879.8	820.0	718.4	702.2	673.1	651.8	650.1	654.3	677.4
15°	907.2	895.2	866.2	772.2	682.5	670.6	650.1	642.4	651.8	681.7	750.9
17.5°	896.9	883.3	847.4	725.2	655.2	646.7	632.1	647.5	700.5	740.6	763.7
20°	883.3	867.0	826.0	691.1	635.6	627.9	621.0	690.2	730.4	744.9	757.7
22.5°	867.0	849.9	797.0	667.2	615.1	609.1	613.3	714.1	730.4	740.6	751.7
25°	845.7	831.2	762.8	648.4	598.8	592.0	608.2	711.6	721.0	723.5	745.7
27.5°	826.0	807.2	726.9	631.3	579.2	576.6	612.5	700.5	707.3	709.9	733.8
30°	802.1	773.9	686.8	613.3	558.7	557.8	613.3	686.8	685.1	691.9	715.8
32.5°	777.3	724.4	641.5	591.1	539.0	538.2	607.4	666.3	664.6	674.0	691.9
35°	754.3	686.0	580.0	565.5	514.3	515.1	592.9	642.4	643.2	651.8	662.9
37.5°	730.4	652.6	512.6	537.3	490.4	490.4	573.2	620.2	618.5	621.0	636.4
40°	702.2	600.5	452.8	500.6	468.1	465.6	549.3	596.3	590.3	589.4	610.8
42.5°	672.3	543.3	408.4	451.9	442.5	439.1	520.2	567.2	556.1	558.7	586.0
45°	639.8	527.9	374.2	381.9	416.0	413.5	488.6	533.9	526.2	533.1	561.2
47.5°	607.4	497.2	363.1	317.0	387.9	387.0	453.6	501.5	497.2	504.0	533.9
50°	563.0	463.0	362.2	271.6	356.3	359.7	411.8	469.9	469.9	475.8	507.4
52.5°	505.7	421.2	328.9	246.0	319.5	329.8	375.0	442.5	444.2	450.2	478.4
55°	453.6	377.6	305.0	226.3	275.9	298.1	339.2	414.3	417.8	423.7	449.4
57.5°	405.8	314.4	299.8	203.3	235.7	257.1	307.6	387.0	388.7	393.8	418.6
60°	354.5	227.2	275.0	178.5	200.7	216.9	278.4	354.5	360.5	363.9	385.3
62.5°	296.4	164.8	249.4	161.4	183.6	187.1	254.5	323.8	331.5	334.0	346.9
65°	211.0	138.4	211.8	146.9	165.7	166.6	228.9	292.1	298.9	303.2	312.7
67.5°	142.6	112.7	161.4	133.2	152.0	152.9	204.1	255.4	264.8	268.2	274.2
70°	99.1	75.2	119.6	118.7	136.7	138.4	177.7	222.1	230.6	233.2	236.6
72.5°	72.6	60.6	99.1	106.8	120.4	122.1	150.3	184.5	193.0	195.6	197.3
75°	55.5	64.1	80.3	93.1	102.5	103.3	123.0	150.3	156.3	158.0	158.9
77.5°	44.4	59.8	58.9	75.2	83.7	82.0	96.5	116.2	121.3	121.3	121.3
80°	33.3	47.0	44.4	53.8	61.5	59.8	69.2	82.9	84.6	86.3	85.4
82.5°	24.8	29.9	29.9	34.2	41.0	39.3	46.1	53.8	53.8	53.8	55.5
85°	15.4	17.1	13.7	17.9	23.1	22.2	25.6	29.0	29.9	29.9	28.2
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	12.0	12.8	12.0	12.0	12.0
90°	2.2	1.5	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4
92.5°	15.0	9.2	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1
95°	29.6	18.9	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4
97.5°	33.0	23.6	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3
100°	35.9	27.3	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1
102.5°	38.7	30.7	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9
105°	42.9	36.2	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0
107.5°	48.9	42.5	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3
110°	52.2	46.5	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1



TEST NUMBER: P933931

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	56.2	50.8	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6
115°	62.2	57.2	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6
117.5°	68.1	63.5	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8
120°	71.5	67.2	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8
122.5°	75.3	71.1	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9
125°	80.5	76.6	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1
127.5°	85.4	81.5	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8
130°	88.6	84.3	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4
132.5°	91.3	87.0	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9
135°	94.5	90.5	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1
137.5°	98.4	94.6	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6
140°	101.1	97.5	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0
142.5°	103.1	99.8	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0
145°	106.3	103.3	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0
147.5°	110.0	107.2	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2
150°	112.1	109.5	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9
152.5°	113.4	111.5	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1
155°	116.4	115.0	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1
157.5°	119.2	117.9	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2
160°	120.6	119.5	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3
162.5°	122.1	121.2	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4
165°	124.0	123.3	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1
167.5°	125.2	124.9	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8
170°	126.5	126.2	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8
172.5°	126.7	126.6	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4
175°	127.4	127.4	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8
177.5°	127.4	127.4	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



TEST NUMBER: P933931

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9	902.9
2.5°	871.3	868.7	872.2	862.8	872.2	868.7	871.3	877.3	872.2	875.6	879.0
5°	764.5	760.3	746.6	735.5	746.6	760.3	764.5	782.5	791.0	806.4	826.9
7.5°	683.4	680.0	676.6	669.7	676.6	680.0	683.4	688.5	697.1	710.7	726.1
10°	665.5	666.3	671.4	670.6	671.4	666.3	665.5	663.7	661.2	663.7	673.1
12.5°	711.6	719.3	747.4	745.7	747.4	719.3	711.6	677.4	654.3	650.1	651.8
15°	764.5	767.1	773.1	773.9	773.1	767.1	764.5	750.9	681.7	651.8	642.4
17.5°	769.7	770.5	774.8	774.8	774.8	770.5	769.7	763.7	740.6	700.5	647.5
20°	765.4	767.1	775.6	777.3	775.6	767.1	765.4	757.7	744.9	730.4	690.2
22.5°	763.7	767.1	773.9	773.1	773.9	767.1	763.7	751.7	740.6	730.4	714.1
25°	755.1	755.1	756.0	756.8	756.0	755.1	755.1	745.7	723.5	721.0	711.6
27.5°	737.2	738.9	744.0	743.2	744.0	738.9	737.2	733.8	709.9	707.3	700.5
30°	721.0	719.3	715.0	711.6	715.0	719.3	721.0	715.8	691.9	685.1	686.8
32.5°	693.6	689.4	685.1	682.5	685.1	689.4	693.6	691.9	674.0	664.6	666.3
35°	661.2	662.0	661.2	658.6	661.2	662.0	661.2	662.9	651.8	643.2	642.4
37.5°	638.1	639.8	639.0	635.6	639.0	639.8	638.1	636.4	621.0	618.5	620.2
40°	614.2	615.1	614.2	611.6	614.2	615.1	614.2	610.8	589.4	590.3	596.3
42.5°	591.1	590.3	587.7	586.0	587.7	590.3	591.1	586.0	558.7	556.1	567.2
45°	564.7	565.5	560.4	557.8	560.4	565.5	564.7	561.2	533.1	526.2	533.9
47.5°	538.2	538.2	533.9	531.4	533.9	538.2	538.2	533.9	504.0	497.2	501.5
50°	510.0	509.1	503.2	502.3	503.2	509.1	510.0	507.4	475.8	469.9	469.9
52.5°	477.5	477.5	478.4	480.1	478.4	477.5	477.5	478.4	450.2	444.2	442.5
55°	449.4	450.2	456.2	457.9	456.2	450.2	449.4	449.4	423.7	417.8	414.3
57.5°	420.3	420.3	424.6	424.6	424.6	420.3	420.3	418.6	393.8	388.7	387.0
60°	387.0	388.7	392.1	391.3	392.1	388.7	387.0	385.3	363.9	360.5	354.5
62.5°	352.0	353.7	354.5	352.8	354.5	353.7	352.0	346.9	334.0	331.5	323.8
65°	315.3	317.0	317.8	316.1	317.8	317.0	315.3	312.7	303.2	298.9	292.1
67.5°	277.6	276.7	275.9	279.3	275.9	276.7	277.6	274.2	268.2	264.8	255.4
70°	239.2	239.2	238.3	240.0	238.3	239.2	239.2	236.6	233.2	230.6	222.1
72.5°	198.2	197.3	200.7	198.2	200.7	197.3	198.2	197.3	195.6	193.0	184.5
75°	158.0	159.7	158.0	160.6	158.0	159.7	158.0	158.9	158.0	156.3	150.3
77.5°	120.4	122.1	120.4	120.4	120.4	122.1	120.4	121.3	121.3	121.3	116.2
80°	85.4	84.6	84.6	83.7	84.6	84.6	85.4	85.4	86.3	84.6	82.9
82.5°	54.7	53.8	53.8	55.5	53.8	53.8	54.7	55.5	53.8	53.8	53.8
85°	29.9	30.7	29.0	29.0	29.0	30.7	29.9	28.2	29.9	29.9	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	12.0	12.0	12.0	12.8
90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.4	5.8	6.5	5.6
92.5°	16.2	15.5	13.0	10.4	13.0	15.5	16.2	23.1	32.1	36.6	32.2
95°	55.2	53.2	45.4	37.6	45.4	53.2	55.2	72.4	95.5	107.0	90.4
97.5°	127.4	123.6	108.7	93.9	108.7	123.6	127.4	138.3	152.9	160.1	132.4
100°	178.9	174.4	156.7	139.0	156.7	174.4	178.9	178.1	177.0	176.5	145.7
102.5°	222.8	219.0	203.8	188.6	203.8	219.0	222.8	208.9	190.4	181.1	149.9
105°	274.2	272.1	264.0	255.8	264.0	272.1	274.2	243.0	201.4	180.6	150.3
107.5°	300.9	301.4	303.4	305.4	303.4	301.4	300.9	257.3	199.4	170.3	143.7
110°	307.7	309.9	318.3	326.9	318.3	309.9	307.7	259.1	194.2	161.8	137.8



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CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	303.4	306.6	319.7	332.8	319.7	306.6	303.4	253.6	187.2	154.0	132.6
115°	288.5	293.1	311.2	329.4	311.2	293.1	288.5	240.6	176.6	144.7	126.7
117.5°	268.1	273.2	293.2	313.4	293.2	273.2	268.1	224.8	167.2	138.3	122.9
120°	254.4	259.2	278.8	298.3	278.8	259.2	254.4	214.8	162.0	135.6	121.6
122.5°	240.5	245.3	264.6	283.9	264.6	245.3	240.5	204.9	157.4	133.7	120.9
125°	222.3	226.8	244.5	262.3	244.5	226.8	222.3	192.1	151.7	131.5	120.4
127.5°	207.7	211.5	226.4	241.4	226.4	211.5	207.7	181.8	147.1	129.7	120.1
130°	198.5	201.9	215.8	229.6	215.8	201.9	198.5	175.4	144.5	129.1	120.3
132.5°	190.6	193.7	206.1	218.5	206.1	193.7	190.6	169.9	142.3	128.5	120.4
135°	179.5	182.1	192.9	203.5	192.9	182.1	179.5	162.1	139.0	127.4	120.3
137.5°	171.3	173.5	182.2	191.0	182.2	173.5	171.3	156.6	137.0	127.3	121.0
140°	164.7	166.7	174.8	183.0	174.8	166.7	164.7	152.0	135.1	126.7	121.2
142.5°	160.1	161.9	168.9	175.9	168.9	161.9	160.1	149.0	134.1	126.7	121.6
145°	153.1	154.5	159.8	165.1	159.8	154.5	153.1	144.0	131.9	125.8	121.6
147.5°	147.3	148.4	152.8	157.2	152.8	148.4	147.3	140.2	130.6	125.8	122.5
150°	144.0	144.9	148.4	152.0	148.4	144.9	144.0	137.9	129.8	125.8	122.9
152.5°	141.4	142.0	144.7	147.4	144.7	142.0	141.4	136.1	129.2	125.8	123.2
155°	138.2	138.6	140.4	142.2	140.4	138.6	138.2	134.1	128.5	125.8	123.8
157.5°	135.4	135.7	137.0	138.3	137.0	135.7	135.4	132.2	127.9	125.8	124.4
160°	134.0	134.2	135.0	135.6	135.0	134.2	134.0	131.3	127.6	125.8	124.7
162.5°	132.7	132.9	133.6	134.3	133.6	132.9	132.7	130.4	127.4	125.8	125.0
165°	130.8	130.9	131.7	132.4	131.7	130.9	130.8	129.1	126.9	125.8	125.5
167.5°	129.9	130.0	130.3	130.6	130.3	130.0	129.9	128.8	127.4	126.7	126.3
170°	129.9	129.9	129.9	129.9	129.9	129.9	129.9	128.8	127.4	126.7	126.7
172.5°	129.2	129.1	128.9	128.6	128.9	129.1	129.2	128.4	127.3	126.7	126.7
175°	128.3	128.3	128.3	128.3	128.3	128.3	128.3	127.8	127.0	126.7	126.8
177.5°	128.1	128.0	127.8	127.4	127.8	128.0	128.1	127.7	127.1	126.8	127.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	902.9	902.9	902.9	902.9	902.9
2.5°	891.8	896.1	898.6	902.0	910.6
5°	857.6	873.9	879.0	891.8	907.2
7.5°	782.5	832.0	845.7	876.4	900.3
10°	709.9	759.4	783.3	855.9	891.8
12.5°	673.1	702.2	718.4	820.0	879.8
15°	650.1	670.6	682.5	772.2	866.2
17.5°	632.1	646.7	655.2	725.2	847.4
20°	621.0	627.9	635.6	691.1	826.0
22.5°	613.3	609.1	615.1	667.2	797.0
25°	608.2	592.0	598.8	648.4	762.8
27.5°	612.5	576.6	579.2	631.3	726.9
30°	613.3	557.8	558.7	613.3	686.8
32.5°	607.4	538.2	539.0	591.1	641.5
35°	592.9	515.1	514.3	565.5	580.0
37.5°	573.2	490.4	490.4	537.3	512.6
40°	549.3	465.6	468.1	500.6	452.8
42.5°	520.2	439.1	442.5	451.9	408.4
45°	488.6	413.5	416.0	381.9	374.2
47.5°	453.6	387.0	387.9	317.0	363.1
50°	411.8	359.7	356.3	271.6	362.2
52.5°	375.0	329.8	319.5	246.0	328.9
55°	339.2	298.1	275.9	226.3	305.0
57.5°	307.6	257.1	235.7	203.3	299.8
60°	278.4	216.9	200.7	178.5	275.0
62.5°	254.5	187.1	183.6	161.4	249.4
65°	228.9	166.6	165.7	146.9	211.8
67.5°	204.1	152.9	152.0	133.2	161.4
70°	177.7	138.4	136.7	118.7	119.6
72.5°	150.3	122.1	120.4	106.8	99.1
75°	123.0	103.3	102.5	93.1	80.3
77.5°	96.5	82.0	83.7	75.2	58.9
80°	69.2	59.8	61.5	53.8	44.4
82.5°	46.1	39.3	41.0	34.2	29.9
85°	25.6	22.2	23.1	17.9	13.7
87.5°	12.0	10.2	10.2	6.8	4.3
90°	3.8	2.4	2.2	1.5	0.9
92.5°	23.2	16.5	15.0	9.2	3.4
95°	57.1	32.2	29.6	18.9	8.2
97.5°	77.0	35.4	33.0	23.6	14.2
100°	84.1	38.0	35.9	27.3	18.8
102.5°	87.5	40.7	38.7	30.7	22.7
105°	89.9	44.6	42.9	36.2	29.5
107.5°	90.4	50.4	48.9	42.5	36.3
110°	89.7	53.6	52.2	46.5	40.9



TEST NUMBER: P933931

CATALOG NUMBER: SQ4-FA-025U-075D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	89.7	57.6	56.2	50.8	45.4
115°	90.5	63.5	62.2	57.2	52.3
117.5°	92.2	69.2	68.1	63.5	59.0
120°	93.5	72.5	71.5	67.2	62.9
122.5°	95.5	76.4	75.3	71.1	66.8
125°	98.2	81.6	80.5	76.6	72.7
127.5°	100.9	86.4	85.4	81.5	77.5
130°	102.8	89.7	88.6	84.3	80.0
132.5°	104.4	92.3	91.3	87.0	82.8
135°	106.1	95.4	94.5	90.5	86.7
137.5°	108.6	99.3	98.4	94.6	90.7
140°	110.2	102.0	101.1	97.5	94.0
142.5°	111.5	103.9	103.1	99.8	96.6
145°	113.3	106.9	106.3	103.3	100.5
147.5°	115.7	110.7	110.0	107.2	104.5
150°	117.0	112.7	112.1	109.5	107.0
152.5°	117.9	113.9	113.4	111.5	109.7
155°	119.7	116.8	116.4	115.0	113.6
157.5°	121.6	119.6	119.2	117.9	116.5
160°	122.5	120.9	120.6	119.5	118.5
162.5°	123.4	122.2	122.1	121.2	120.4
165°	124.7	124.2	124.0	123.3	122.6
167.5°	125.7	125.3	125.2	124.9	124.5
170°	126.6	126.6	126.5	126.2	125.8
172.5°	126.7	126.7	126.7	126.6	126.5
175°	127.2	127.4	127.4	127.4	127.4
177.5°	127.3	127.4	127.4	127.4	127.4
180°	127.4	127.4	127.4	127.4	127.4



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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	14.14	15.27	14.86	16.01	16.89	16.94	18.07	17.66	18.81	19.69
	3H	14.64	15.65	15.38	16.40	17.32	18.30	19.31	19.03	20.06	20.97
	4H	14.84	15.80	15.60	16.56	17.49	18.75	19.70	19.50	20.46	21.39
	6H	14.98	15.86	15.74	16.63	17.57	19.04	19.92	19.80	20.69	21.63
	8H	14.99	15.83	15.76	16.61	17.56	19.12	19.95	19.89	20.74	21.69
	12H	14.97	15.77	15.75	16.55	17.52	19.16	19.96	19.94	20.74	21.71
4H	2H	15.20	16.16	15.96	16.92	17.84	17.39	18.34	18.14	19.10	20.03
	3H	16.25	17.05	17.02	17.84	18.79	18.90	19.70	19.67	20.50	21.44
	4H	16.54	17.26	17.32	18.06	19.03	19.44	20.16	20.22	20.96	21.93
	6H	16.68	17.31	17.48	18.13	19.11	19.81	20.44	20.61	21.26	22.24
	8H	16.69	17.28	17.50	18.09	19.08	19.92	20.50	20.72	21.32	22.31
	12H	16.67	17.20	17.50	18.04	19.03	19.98	20.51	20.81	21.35	22.34
8H	4H	17.01	17.59	17.81	18.41	19.40	19.58	20.17	20.39	20.99	21.98
	6H	17.28	17.77	18.12	18.62	19.62	20.02	20.51	20.86	21.37	22.36
	8H	17.33	17.76	18.17	18.61	19.62	20.17	20.60	21.02	21.46	22.47
	12H	17.32	17.70	18.17	18.55	19.61	20.28	20.66	21.13	21.50	22.57
12H	4H	17.03	17.55	17.85	18.39	19.39	19.56	20.09	20.39	20.93	21.92
	6H	17.34	17.77	18.19	18.63	19.64	20.02	20.45	20.87	21.31	22.32
	8H	17.42	17.80	18.27	18.65	19.71	20.19	20.57	21.04	21.42	22.48