

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: P933960

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933960
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-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

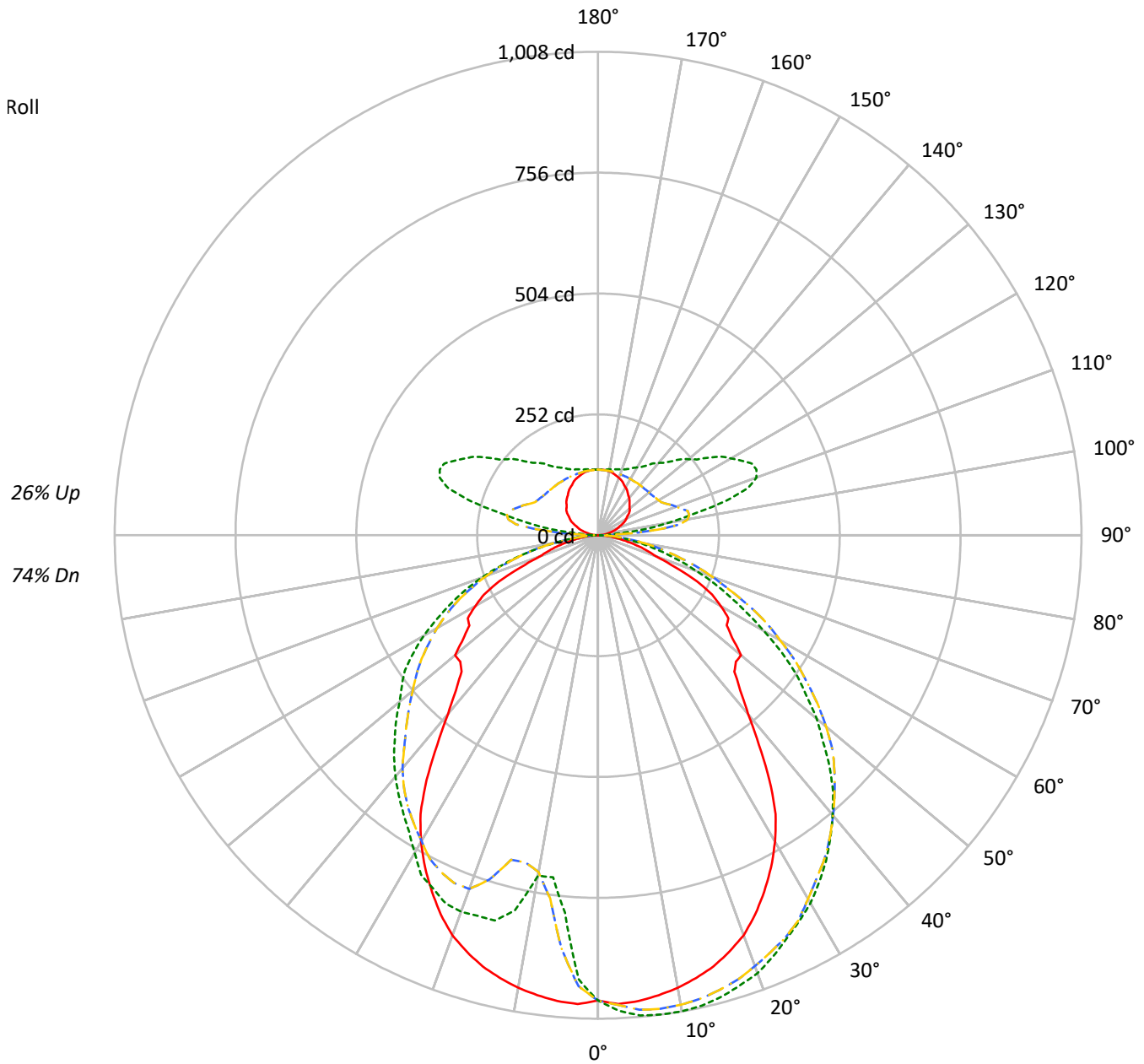
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.7 lumens
Efficiency: N/A
Efficacy: 113.5 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

TEST NUMBER: P933960
CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-5000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9002	9002	9002	9002
5°	9059	9088	9059	7145
10°	8989	8952	8989	6400
15°	8880	8758	8880	7312
20°	8685	8527	8685	7328
25°	8295	8192	8295	7173
30°	7794	7914	7794	6831
35°	6938	7563	6938	6457
40°	5772	7149	5772	6174
45°	5147	6664	5147	5848
50°	5456	6086	5456	5522
55°	5119	5462	5119	5333
60°	5256	4639	5256	4885
65°	4743	3835	4743	4287
70°	3262	3055	3262	3593
75°	2830	2259	2830	2704
80°	2232	1493	2232	1625
85°	1217	791	1217	672

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7903 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	2.6
10°-20°	248.6	7.3
20°-30°	384.3	11.3
30°-40°	458.8	13.5
40°-50°	461.5	13.6
50°-60°	401.6	11.8
60°-70°	284.7	8.4
70°-80°	150.6	4.4
80°-90°	38.0	1.1
90°-100°	66.8	2.0
100°-110°	175.5	5.2
110°-120°	182.0	5.3
120°-130°	146.0	4.3
130°-140°	114.5	3.4
140°-150°	87.9	2.6
150°-160°	63.3	1.9
160°-170°	38.7	1.1
170°-180°	13.1	0.4
0°-30°	720.6	21.2
0°-40°	1179.4	34.7
0°-60°	2042.5	60.0
0°-90°	2515.9	73.9
90°-120°	424.3	12.5
90°-150°	772.7	22.7
90°-180°	888.0	26.1
0°-180°	3403.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	970	970	970	970	970	
5°	975	1005	975	790	975	92
15°	931	996	931	832	931	262
25°	820	929	820	813	820	376
35°	623	829	623	708	623	386
45°	402	683	402	599	402	322
55°	328	504	328	492	328	301
65°	228	304	228	340	228	218
75°	86	144	86	172	86	91
85°	15	37	15	31	15	20
90°	1	4	1	4	1	1
95°	9	40	9	40	9	10
105°	32	275	32	275	32	34
115°	56	354	56	354	56	55
125°	78	282	78	282	78	69
135°	93	219	93	219	93	72
145°	108	177	108	177	108	68
155°	122	153	122	153	122	56
165°	132	142	132	142	132	37
175°	137	138	137	138	137	13
180°	137	137	137	137	137	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	978.4	978.4	984.0	985.8	985.8	983.0	980.3	983.0	991.3	994.0	993.1
5°	974.7	982.1	992.2	994.0	995.9	995.0	993.1	995.0	1004.1	1006.0	1006.9
7.5°	967.3	981.2	994.0	996.8	999.6	996.8	995.9	997.7	1006.9	1008.7	1008.7
10°	958.2	977.4	992.2	994.0	996.8	994.0	994.0	997.7	1006.9	1008.7	1009.6
12.5°	945.3	971.9	985.8	987.6	991.3	990.4	989.5	993.1	1002.3	1004.1	1004.1
15°	930.6	961.8	974.7	976.5	983.0	981.2	981.2	984.9	995.0	997.7	996.8
17.5°	910.4	949.0	963.7	966.4	971.0	970.1	971.0	974.7	984.0	985.8	986.7
20°	887.5	931.6	949.0	951.7	956.3	956.3	956.3	960.9	970.1	973.8	973.8
22.5°	856.3	913.2	931.6	933.4	938.9	938.9	940.7	947.2	955.4	956.3	956.3
25°	819.6	893.0	908.6	914.1	919.6	922.4	925.1	928.8	931.6	930.6	931.6
27.5°	781.1	867.3	887.5	891.2	898.5	901.3	904.9	905.9	906.8	909.5	907.7
30°	737.9	831.5	861.8	865.5	877.4	879.2	875.6	877.4	882.0	883.8	885.7
32.5°	689.3	778.3	835.2	843.5	854.5	849.0	848.0	850.8	858.1	858.1	860.0
35°	623.2	737.0	810.4	817.8	826.0	819.6	823.3	824.2	828.8	831.5	830.6
37.5°	550.7	701.2	784.7	790.2	796.7	788.4	793.9	796.7	800.3	798.5	798.5
40°	486.5	645.2	754.4	758.1	763.6	757.2	762.7	764.5	766.4	764.5	763.6
42.5°	438.7	583.7	722.3	726.9	723.2	727.8	729.7	733.3	730.6	726.9	726.9
45°	402.0	567.2	687.4	693.0	687.4	694.8	697.5	697.5	689.3	687.4	686.5
47.5°	390.1	534.2	652.6	652.6	649.8	659.0	663.6	657.2	648.9	646.1	646.1
50°	389.2	497.5	604.9	601.2	614.0	625.0	620.5	614.0	607.6	597.5	597.5
52.5°	353.4	452.5	543.4	557.1	577.3	583.7	576.4	570.0	559.0	554.4	550.7
55°	327.7	405.7	487.4	514.9	536.0	544.3	530.5	524.1	507.6	504.8	503.0
57.5°	322.1	337.8	436.0	470.9	496.6	495.6	487.4	475.5	461.7	458.9	458.0
60°	295.5	244.1	380.9	422.2	448.8	446.1	438.7	427.7	414.9	413.1	411.2
62.5°	268.0	177.1	318.4	365.3	403.0	402.0	395.6	379.1	369.9	365.3	361.7
65°	227.6	148.7	226.7	303.8	358.0	359.8	346.1	334.1	323.9	318.4	317.5
67.5°	173.4	121.1	153.3	253.3	314.8	312.9	295.5	290.0	277.1	274.4	268.9
70°	128.5	80.8	106.5	205.6	272.6	268.0	254.2	247.8	235.8	229.4	225.8
72.5°	106.5	65.2	78.0	159.7	229.4	223.9	212.0	204.6	194.6	189.0	185.4
75°	86.3	68.8	59.7	118.4	186.3	182.6	171.6	164.3	156.0	148.7	149.6
77.5°	63.3	64.2	47.7	87.2	147.7	142.2	135.8	126.6	123.0	115.6	115.6
80°	47.7	50.5	35.8	59.7	106.5	106.5	100.9	94.5	88.1	84.4	84.4
82.5°	32.1	32.1	26.6	37.6	72.5	69.7	66.1	64.2	60.6	58.7	58.7
85°	14.7	18.4	16.5	22.9	39.5	41.3	41.3	39.5	38.5	36.7	37.6
87.5°	4.6	8.3	10.1	12.8	20.2	21.1	22.0	22.0	22.0	22.9	22.9
90°	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7	3.5	3.5
92.5°	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8	17.4	16.7
95°	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8	59.3	57.2
97.5°	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6	136.8	132.8
100°	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3	192.2	187.4
102.5°	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5	239.4	235.3
105°	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1	294.6	292.4
107.5°	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5	323.3	323.9
110°	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3	330.6	332.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5	326.0	329.5
115°	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5	310.0	314.9
117.5°	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5	288.1	293.5
120°	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8	273.3	278.5
122.5°	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2	258.4	263.6
125°	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4	238.9	243.6
127.5°	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3	223.2	227.2
130°	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4	213.3	216.9
132.5°	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5	204.8	208.1
135°	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2	192.8	195.7
137.5°	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2	184.0	186.4
140°	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3	176.9	179.1
142.5°	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0	172.0	173.9
145°	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7	164.5	166.0
147.5°	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6	158.3	159.5
150°	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2	154.7	155.6
152.5°	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3	151.9	152.6
155°	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1	148.5	148.9
157.5°	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1	145.5	145.8
160°	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0	144.0	144.2
162.5°	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1	142.6	142.8
165°	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8	140.5	140.7
167.5°	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4	139.6	139.7
170°	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4	139.6	139.6
172.5°	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9	138.8	138.8
175°	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3	137.8	137.8
177.5°	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2	137.7	137.6
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	995.0	992.2	995.0	993.1	994.0	991.3	983.0	980.3	983.0	985.8	985.8
5°	1006.9	1005.1	1006.9	1006.9	1006.0	1004.1	995.0	993.1	995.0	995.9	994.0
7.5°	1010.6	1007.8	1010.6	1008.7	1008.7	1006.9	997.7	995.9	996.8	999.6	996.8
10°	1010.6	1007.8	1010.6	1009.6	1008.7	1006.9	997.7	994.0	994.0	996.8	994.0
12.5°	1006.0	1004.1	1006.0	1004.1	1004.1	1002.3	993.1	989.5	990.4	991.3	987.6
15°	998.6	995.9	998.6	996.8	997.7	995.0	984.9	981.2	981.2	983.0	976.5
17.5°	987.6	984.0	987.6	986.7	985.8	984.0	974.7	971.0	970.1	971.0	966.4
20°	974.7	971.9	974.7	973.8	973.8	970.1	960.9	956.3	956.3	956.3	951.7
22.5°	954.5	951.7	954.5	956.3	956.3	955.4	947.2	940.7	938.9	938.9	933.4
25°	931.6	928.8	931.6	931.6	930.6	931.6	928.8	925.1	922.4	919.6	914.1
27.5°	909.5	907.7	909.5	907.7	909.5	906.8	905.9	904.9	901.3	898.5	891.2
30°	887.5	885.7	887.5	885.7	883.8	882.0	877.4	875.6	879.2	877.4	865.5
32.5°	860.0	858.1	860.0	860.0	858.1	858.1	850.8	848.0	849.0	854.5	843.5
35°	831.5	828.8	831.5	830.6	831.5	828.8	824.2	823.3	819.6	826.0	817.8
37.5°	798.5	795.7	798.5	798.5	798.5	800.3	796.7	793.9	788.4	796.7	790.2
40°	764.5	760.9	764.5	763.6	764.5	766.4	764.5	762.7	757.2	763.6	758.1
42.5°	726.0	725.1	726.0	726.9	726.9	730.6	733.3	729.7	727.8	723.2	726.9
45°	684.7	682.9	684.7	686.5	687.4	689.3	697.5	697.5	694.8	687.4	693.0
47.5°	640.6	636.1	640.6	646.1	646.1	648.9	657.2	663.6	659.0	649.8	652.6
50°	593.8	594.8	593.8	597.5	597.5	607.6	614.0	620.5	625.0	614.0	601.2
52.5°	548.0	547.0	548.0	550.7	554.4	559.0	570.0	576.4	583.7	577.3	557.1
55°	502.1	503.9	502.1	503.0	504.8	507.6	524.1	530.5	544.3	536.0	514.9
57.5°	456.2	453.4	456.2	458.0	458.9	461.7	475.5	487.4	495.6	496.6	470.9
60°	403.0	399.3	403.0	411.2	413.1	414.9	427.7	438.7	446.1	448.8	422.2
62.5°	356.2	349.7	356.2	361.7	365.3	369.9	379.1	395.6	402.0	403.0	365.3
65°	306.5	303.8	306.5	317.5	318.4	323.9	334.1	346.1	359.8	358.0	303.8
67.5°	261.5	261.5	261.5	268.9	274.4	277.1	290.0	295.5	312.9	314.8	253.3
70°	220.2	219.3	220.2	225.8	229.4	235.8	247.8	254.2	268.0	272.6	205.6
72.5°	180.8	179.9	180.8	185.4	189.0	194.6	204.6	212.0	223.9	229.4	159.7
75°	145.9	144.1	145.9	149.6	148.7	156.0	164.3	171.6	182.6	186.3	118.4
77.5°	112.0	112.0	112.0	115.6	115.6	123.0	126.6	135.8	142.2	147.7	87.2
80°	83.5	82.6	83.5	84.4	84.4	88.1	94.5	100.9	106.5	106.5	59.7
82.5°	58.7	56.9	58.7	58.7	58.7	60.6	64.2	66.1	69.7	72.5	37.6
85°	36.7	36.7	36.7	37.6	36.7	38.5	39.5	41.3	41.3	39.5	22.9
87.5°	23.9	22.9	23.9	22.9	22.9	22.0	22.0	22.0	21.1	20.2	12.8
90°	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0	4.0	2.6
92.5°	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6	25.0	17.7
95°	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1	61.4	34.6
97.5°	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2	82.7	38.0
100°	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6	90.4	40.8
102.5°	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1	94.0	43.7
105°	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5	96.6	47.9
107.5°	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4	97.1	54.1
110°	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0	96.4	57.6



TEST NUMBER: P933960

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4	96.4	61.9
115°	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1	97.3	68.2
117.5°	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1	99.1	74.3
120°	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7	100.5	77.9
122.5°	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9	102.6	82.1
125°	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4	105.5	87.6
127.5°	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0	108.4	92.9
130°	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3	110.5	96.4
132.5°	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4	112.1	99.2
135°	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3	114.0	102.5
137.5°	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0	116.7	106.7
140°	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2	118.4	109.6
142.5°	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7	119.9	111.7
145°	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7	121.7	114.9
147.5°	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6	124.3	118.9
150°	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1	125.7	121.0
152.5°	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3	126.6	122.4
155°	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0	128.7	125.4
157.5°	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7	130.7	128.5
160°	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0	131.6	129.9
162.5°	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4	132.6	131.3
165°	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8	134.0	133.4
167.5°	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7	135.1	134.6
170°	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1	136.0	136.0
172.5°	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3	136.6	136.9
177.5°	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5	136.7	136.9
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P933960

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	984.0	978.4	978.4	969.2	965.5	962.8	958.2	944.4	940.7	937.1	942.6
5°	992.2	982.1	974.7	958.2	944.4	938.9	921.5	888.4	866.4	849.9	840.7
7.5°	994.0	981.2	967.3	941.6	908.6	893.9	840.7	780.1	763.6	748.9	739.8
10°	992.2	977.4	958.2	919.6	841.6	815.9	762.7	723.2	713.1	710.4	713.1
12.5°	985.8	971.9	945.3	881.1	771.9	754.4	723.2	700.3	698.5	703.0	727.8
15°	974.7	961.8	930.6	829.7	733.3	720.5	698.5	690.2	700.3	732.4	806.7
17.5°	963.7	949.0	910.4	779.2	704.0	694.8	679.2	695.7	752.6	795.7	820.5
20°	949.0	931.6	887.5	742.5	682.9	674.6	667.3	741.6	784.7	800.3	814.1
22.5°	931.6	913.2	856.3	716.8	660.8	654.4	659.0	767.3	784.7	795.7	807.7
25°	908.6	893.0	819.6	696.6	643.4	636.1	653.5	764.5	774.6	777.4	801.2
27.5°	887.5	867.3	781.1	678.3	622.3	619.5	658.1	752.6	759.9	762.7	788.4
30°	861.8	831.5	737.9	659.0	600.3	599.3	659.0	737.9	736.1	743.4	769.1
32.5°	835.2	778.3	689.3	635.1	579.2	578.2	652.6	715.9	714.1	724.2	743.4
35°	810.4	737.0	623.2	607.6	552.5	553.5	637.0	690.2	691.1	700.3	712.2
37.5°	784.7	701.2	550.7	577.3	526.8	526.8	615.9	666.3	664.5	667.3	683.8
40°	754.4	645.2	486.5	537.9	503.0	500.2	590.2	640.6	634.2	633.3	656.2
42.5°	722.3	583.7	438.7	485.6	475.5	471.8	559.0	609.4	597.5	600.3	629.6
45°	687.4	567.2	402.0	410.3	447.0	444.3	525.0	573.7	565.4	572.7	603.0
47.5°	652.6	534.2	390.1	340.6	416.7	415.8	487.4	538.8	534.2	541.5	573.7
50°	604.9	497.5	389.2	291.8	382.8	386.4	442.4	504.8	504.8	511.2	545.2
52.5°	543.4	452.5	353.4	264.3	343.3	354.3	403.0	475.5	477.3	483.7	514.0
55°	487.4	405.7	327.7	243.2	296.4	320.3	364.4	445.2	448.8	455.3	482.8
57.5°	436.0	337.8	322.1	218.4	253.3	276.2	330.5	415.8	417.6	423.1	449.8
60°	380.9	244.1	295.5	191.8	215.7	233.1	299.2	380.9	387.4	391.0	414.0
62.5°	318.4	177.1	268.0	173.4	197.3	201.0	273.5	347.9	356.2	358.9	372.7
65°	226.7	148.7	227.6	157.8	178.0	179.0	245.9	313.9	321.2	325.8	336.0
67.5°	153.3	121.1	173.4	143.2	163.3	164.3	219.3	274.4	284.5	288.2	294.6
70°	106.5	80.8	128.5	127.6	146.8	148.7	190.9	238.6	247.8	250.5	254.2
72.5°	78.0	65.2	106.5	114.7	129.4	131.2	161.5	198.2	207.4	210.2	212.0
75°	59.7	68.8	86.3	100.0	110.1	111.0	132.1	161.5	167.9	169.8	170.7
77.5°	47.7	64.2	63.3	80.8	89.9	88.1	103.7	124.8	130.3	130.3	130.3
80°	35.8	50.5	47.7	57.8	66.1	64.2	74.3	89.0	90.9	92.7	91.8
82.5°	26.6	32.1	32.1	36.7	44.0	42.2	49.6	57.8	57.8	57.8	59.7
85°	16.5	18.4	14.7	19.3	24.8	23.9	27.5	31.2	32.1	32.1	30.3
87.5°	10.1	8.3	4.6	7.3	11.0	11.0	12.8	13.8	12.8	12.8	12.8
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7
92.5°	16.2	9.9	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8
95°	31.8	20.3	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8
97.5°	35.4	25.3	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6
100°	38.5	29.4	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3
102.5°	41.6	32.9	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5
105°	46.1	38.9	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1
107.5°	52.5	45.7	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5
110°	56.1	50.0	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3



TEST NUMBER: P933960

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	60.4	54.6	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5
115°	66.8	61.5	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5
117.5°	73.1	68.3	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5
120°	76.8	72.2	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8
122.5°	80.9	76.4	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2
125°	86.5	82.3	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4
127.5°	91.8	87.5	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3
130°	95.2	90.6	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4
132.5°	98.1	93.5	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5
135°	101.5	97.3	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2
137.5°	105.7	101.6	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2
140°	108.7	104.8	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3
142.5°	110.8	107.3	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0
145°	114.2	111.0	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7
147.5°	118.2	115.2	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6
150°	120.4	117.6	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2
152.5°	121.9	119.9	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3
155°	125.1	123.5	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1
157.5°	128.1	126.6	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1
160°	129.6	128.4	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0
162.5°	131.1	130.2	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1
165°	133.2	132.4	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8
167.5°	134.5	134.2	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4
170°	135.9	135.5	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4
172.5°	136.1	136.0	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9
175°	136.9	136.9	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3
177.5°	136.9	136.9	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P933960

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1	970.1
2.5°	936.1	933.4	937.1	927.0	937.1	933.4	936.1	942.6	937.1	940.7	944.4
5°	821.4	816.8	802.2	790.2	802.2	816.8	821.4	840.7	849.9	866.4	888.4
7.5°	734.2	730.6	726.9	719.6	726.9	730.6	734.2	739.8	748.9	763.6	780.1
10°	715.0	715.9	721.4	720.5	721.4	715.9	715.0	713.1	710.4	713.1	723.2
12.5°	764.5	772.8	803.1	801.2	803.1	772.8	764.5	727.8	703.0	698.5	700.3
15°	821.4	824.2	830.6	831.5	830.6	824.2	821.4	806.7	732.4	700.3	690.2
17.5°	826.9	827.9	832.4	832.4	832.4	827.9	826.9	820.5	795.7	752.6	695.7
20°	822.3	824.2	833.4	835.2	833.4	824.2	822.3	814.1	800.3	784.7	741.6
22.5°	820.5	824.2	831.5	830.6	831.5	824.2	820.5	807.7	795.7	784.7	767.3
25°	811.3	811.3	812.3	813.2	812.3	811.3	811.3	801.2	777.4	774.6	764.5
27.5°	792.1	793.9	799.4	798.5	799.4	793.9	792.1	788.4	762.7	759.9	752.6
30°	774.6	772.8	768.2	764.5	768.2	772.8	774.6	769.1	743.4	736.1	737.9
32.5°	745.3	740.7	736.1	733.3	736.1	740.7	745.3	743.4	724.2	714.1	715.9
35°	710.4	711.3	710.4	707.6	710.4	711.3	710.4	712.2	700.3	691.1	690.2
37.5°	685.6	687.4	686.5	682.9	686.5	687.4	685.6	683.8	667.3	664.5	666.3
40°	659.9	660.8	659.9	657.2	659.9	660.8	659.9	656.2	633.3	634.2	640.6
42.5°	635.1	634.2	631.5	629.6	631.5	634.2	635.1	629.6	600.3	597.5	609.4
45°	606.7	607.6	602.1	599.3	602.1	607.6	606.7	603.0	572.7	565.4	573.7
47.5°	578.2	578.2	573.7	570.9	573.7	578.2	578.2	573.7	541.5	534.2	538.8
50°	548.0	547.0	540.6	539.7	540.6	547.0	548.0	545.2	511.2	504.8	504.8
52.5°	513.1	513.1	514.0	515.8	514.0	513.1	513.1	514.0	483.7	477.3	475.5
55°	482.8	483.7	490.1	492.0	490.1	483.7	482.8	482.8	455.3	448.8	445.2
57.5°	451.6	451.6	456.2	456.2	456.2	451.6	451.6	449.8	423.1	417.6	415.8
60°	415.8	417.6	421.3	420.4	421.3	417.6	415.8	414.0	391.0	387.4	380.9
62.5°	378.2	380.0	380.9	379.1	380.9	380.0	378.2	372.7	358.9	356.2	347.9
65°	338.7	340.6	341.5	339.6	341.5	340.6	338.7	336.0	325.8	321.2	313.9
67.5°	298.3	297.3	296.4	300.1	296.4	297.3	298.3	294.6	288.2	284.5	274.4
70°	257.0	257.0	256.0	257.9	256.0	257.0	257.0	254.2	250.5	247.8	238.6
72.5°	212.9	212.0	215.7	212.9	215.7	212.0	212.9	212.0	210.2	207.4	198.2
75°	169.8	171.6	169.8	172.5	169.8	171.6	169.8	170.7	169.8	167.9	161.5
77.5°	129.4	131.2	129.4	129.4	129.4	131.2	129.4	130.3	130.3	130.3	124.8
80°	91.8	90.9	90.9	89.9	90.9	90.9	91.8	91.8	92.7	90.9	89.0
82.5°	58.7	57.8	57.8	59.7	57.8	57.8	58.7	59.7	57.8	57.8	57.8
85°	32.1	33.0	31.2	31.2	31.2	33.0	32.1	30.3	32.1	32.1	31.2
87.5°	11.9	11.0	11.0	11.0	11.0	11.0	11.9	12.8	12.8	12.8	13.8
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.7	6.2	7.0	6.0
92.5°	17.4	16.7	13.9	11.2	13.9	16.7	17.4	24.8	34.5	39.4	34.6
95°	59.3	57.2	48.8	40.4	48.8	57.2	59.3	77.8	102.6	115.0	97.1
97.5°	136.8	132.8	116.8	100.9	116.8	132.8	136.8	148.6	164.3	172.1	142.2
100°	192.2	187.4	168.4	149.3	168.4	187.4	192.2	191.3	190.1	189.6	156.6
102.5°	239.4	235.3	219.0	202.6	219.0	235.3	239.4	224.5	204.6	194.6	161.1
105°	294.6	292.4	283.7	274.8	283.7	292.4	294.6	261.1	216.4	194.0	161.5
107.5°	323.3	323.9	326.0	328.1	326.0	323.9	323.3	276.5	214.2	183.0	154.4
110°	330.6	332.9	342.0	351.2	342.0	332.9	330.6	278.3	208.7	173.8	148.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	326.0	329.5	343.5	357.5	343.5	329.5	326.0	272.5	201.2	165.5	142.4
115°	310.0	314.9	334.4	353.9	334.4	314.9	310.0	258.5	189.8	155.5	136.1
117.5°	288.1	293.5	315.0	336.7	315.0	293.5	288.1	241.5	179.6	148.6	132.1
120°	273.3	278.5	299.5	320.5	299.5	278.5	273.3	230.8	174.1	145.7	130.7
122.5°	258.4	263.6	284.3	305.0	284.3	263.6	258.4	220.2	169.1	143.6	129.9
125°	238.9	243.6	262.7	281.8	262.7	243.6	238.9	206.4	163.0	141.3	129.4
127.5°	223.2	227.2	243.3	259.3	243.3	227.2	223.2	195.3	158.0	139.4	129.0
130°	213.3	216.9	231.8	246.7	231.8	216.9	213.3	188.4	155.3	138.7	129.3
132.5°	204.8	208.1	221.4	234.7	221.4	208.1	204.8	182.5	152.9	138.0	129.4
135°	192.8	195.7	207.2	218.7	207.2	195.7	192.8	174.2	149.3	136.9	129.3
137.5°	184.0	186.4	195.7	205.2	195.7	186.4	184.0	168.2	147.2	136.7	130.0
140°	176.9	179.1	187.9	196.7	187.9	179.1	176.9	163.3	145.2	136.1	130.2
142.5°	172.0	173.9	181.4	189.0	181.4	173.9	172.0	160.0	144.1	136.1	130.7
145°	164.5	166.0	171.7	177.4	171.7	166.0	164.5	154.7	141.7	135.2	130.7
147.5°	158.3	159.5	164.2	168.9	164.2	159.5	158.3	150.6	140.3	135.2	131.6
150°	154.7	155.6	159.5	163.3	159.5	155.6	154.7	148.2	139.5	135.2	132.1
152.5°	151.9	152.6	155.5	158.4	155.5	152.6	151.9	146.3	138.8	135.2	132.3
155°	148.5	148.9	150.9	152.8	150.9	148.9	148.5	144.1	138.1	135.2	133.0
157.5°	145.5	145.8	147.2	148.6	147.2	145.8	145.5	142.1	137.5	135.2	133.7
160°	144.0	144.2	145.0	145.7	145.0	144.2	144.0	141.0	137.1	135.2	134.0
162.5°	142.6	142.8	143.5	144.3	143.5	142.8	142.6	140.1	136.8	135.2	134.4
165°	140.5	140.7	141.5	142.2	141.5	140.7	140.5	138.8	136.4	135.2	134.8
167.5°	139.6	139.7	139.9	140.3	139.9	139.7	139.6	138.4	136.8	136.1	135.7
170°	139.6	139.6	139.6	139.6	139.6	139.6	139.6	138.4	136.8	136.1	136.1
172.5°	138.8	138.8	138.5	138.2	138.5	138.8	138.8	137.9	136.7	136.1	136.1
175°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.3	136.5	136.1	136.3
177.5°	137.7	137.6	137.3	136.9	137.3	137.6	137.7	137.2	136.6	136.3	136.5
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	970.1	970.1	970.1	970.1	970.1
2.5°	958.2	962.8	965.5	969.2	978.4
5°	921.5	938.9	944.4	958.2	974.7
7.5°	840.7	893.9	908.6	941.6	967.3
10°	762.7	815.9	841.6	919.6	958.2
12.5°	723.2	754.4	771.9	881.1	945.3
15°	698.5	720.5	733.3	829.7	930.6
17.5°	679.2	694.8	704.0	779.2	910.4
20°	667.3	674.6	682.9	742.5	887.5
22.5°	659.0	654.4	660.8	716.8	856.3
25°	653.5	636.1	643.4	696.6	819.6
27.5°	658.1	619.5	622.3	678.3	781.1
30°	659.0	599.3	600.3	659.0	737.9
32.5°	652.6	578.2	579.2	635.1	689.3
35°	637.0	553.5	552.5	607.6	623.2
37.5°	615.9	526.8	526.8	577.3	550.7
40°	590.2	500.2	503.0	537.9	486.5
42.5°	559.0	471.8	475.5	485.6	438.7
45°	525.0	444.3	447.0	410.3	402.0
47.5°	487.4	415.8	416.7	340.6	390.1
50°	442.4	386.4	382.8	291.8	389.2
52.5°	403.0	354.3	343.3	264.3	353.4
55°	364.4	320.3	296.4	243.2	327.7
57.5°	330.5	276.2	253.3	218.4	322.1
60°	299.2	233.1	215.7	191.8	295.5
62.5°	273.5	201.0	197.3	173.4	268.0
65°	245.9	179.0	178.0	157.8	227.6
67.5°	219.3	164.3	163.3	143.2	173.4
70°	190.9	148.7	146.8	127.6	128.5
72.5°	161.5	131.2	129.4	114.7	106.5
75°	132.1	111.0	110.1	100.0	86.3
77.5°	103.7	88.1	89.9	80.8	63.3
80°	74.3	64.2	66.1	57.8	47.7
82.5°	49.6	42.2	44.0	36.7	32.1
85°	27.5	23.9	24.8	19.3	14.7
87.5°	12.8	11.0	11.0	7.3	4.6
90°	4.0	2.6	2.4	1.7	0.9
92.5°	25.0	17.7	16.2	9.9	3.7
95°	61.4	34.6	31.8	20.3	8.8
97.5°	82.7	38.0	35.4	25.3	15.2
100°	90.4	40.8	38.5	29.4	20.2
102.5°	94.0	43.7	41.6	32.9	24.4
105°	96.6	47.9	46.1	38.9	31.7
107.5°	97.1	54.1	52.5	45.7	39.0
110°	96.4	57.6	56.1	50.0	44.0



TEST NUMBER: P933960

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	96.4	61.9	60.4	54.6	48.8
115°	97.3	68.2	66.8	61.5	56.2
117.5°	99.1	74.3	73.1	68.3	63.4
120°	100.5	77.9	76.8	72.2	67.6
122.5°	102.6	82.1	80.9	76.4	71.8
125°	105.5	87.6	86.5	82.3	78.1
127.5°	108.4	92.9	91.8	87.5	83.2
130°	110.5	96.4	95.2	90.6	86.0
132.5°	112.1	99.2	98.1	93.5	88.9
135°	114.0	102.5	101.5	97.3	93.1
137.5°	116.7	106.7	105.7	101.6	97.5
140°	118.4	109.6	108.7	104.8	101.0
142.5°	119.9	111.7	110.8	107.3	103.8
145°	121.7	114.9	114.2	111.0	108.0
147.5°	124.3	118.9	118.2	115.2	112.2
150°	125.7	121.0	120.4	117.6	115.0
152.5°	126.6	122.4	121.9	119.9	117.8
155°	128.7	125.4	125.1	123.5	122.1
157.5°	130.7	128.5	128.1	126.6	125.2
160°	131.6	129.9	129.6	128.4	127.3
162.5°	132.6	131.3	131.1	130.2	129.4
165°	134.0	133.4	133.2	132.4	131.7
167.5°	135.1	134.6	134.5	134.2	133.8
170°	136.0	136.0	135.9	135.5	135.2
172.5°	136.1	136.1	136.1	136.0	135.9
175°	136.6	136.9	136.9	136.9	136.9
177.5°	136.7	136.9	136.9	136.9	136.9
180°	136.9	136.9	136.9	136.9	136.9



TEST NUMBER: P933960

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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	14.39	15.52	15.11	16.26	17.14	17.19	18.32	17.91	19.06	19.94
	3H	14.89	15.90	15.63	16.65	17.57	18.55	19.56	19.28	20.31	21.22
	4H	15.09	16.05	15.85	16.81	17.74	19.00	19.95	19.75	20.71	21.64
	6H	15.23	16.11	15.99	16.88	17.82	19.29	20.17	20.05	20.94	21.88
	8H	15.24	16.07	16.01	16.86	17.81	19.36	20.20	20.14	20.99	21.94
	12H	15.22	16.02	16.00	16.80	17.77	19.41	20.21	20.19	20.99	21.96
4H	2H	15.45	16.41	16.21	17.17	18.09	17.63	18.59	18.39	19.35	20.28
	3H	16.50	17.30	17.27	18.09	19.04	19.15	19.95	19.92	20.75	21.69
	4H	16.79	17.51	17.57	18.31	19.28	19.69	20.41	20.47	21.21	22.18
	6H	16.93	17.55	17.73	18.38	19.36	20.06	20.68	20.86	21.51	22.48
	8H	16.94	17.53	17.75	18.34	19.33	20.17	20.75	20.97	21.57	22.56
	12H	16.92	17.45	17.75	18.29	19.28	20.23	20.76	21.06	21.60	22.59
8H	4H	17.26	17.84	18.06	18.66	19.65	19.83	20.42	20.64	21.23	22.23
	6H	17.53	18.01	18.37	18.87	19.87	20.27	20.76	21.11	21.62	22.61
	8H	17.58	18.01	18.42	18.86	19.87	20.42	20.85	21.27	21.71	22.72
	12H	17.57	17.95	18.42	18.80	19.86	20.53	20.91	21.37	21.75	22.82
12H	4H	17.28	17.80	18.10	18.64	19.64	19.81	20.34	20.64	21.17	22.17
	6H	17.59	18.02	18.44	18.88	19.89	20.27	20.70	21.12	21.56	22.57
	8H	17.67	18.05	18.52	18.90	19.96	20.44	20.82	21.29	21.67	22.73