

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: P933958

Luminaire Tested: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933958
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

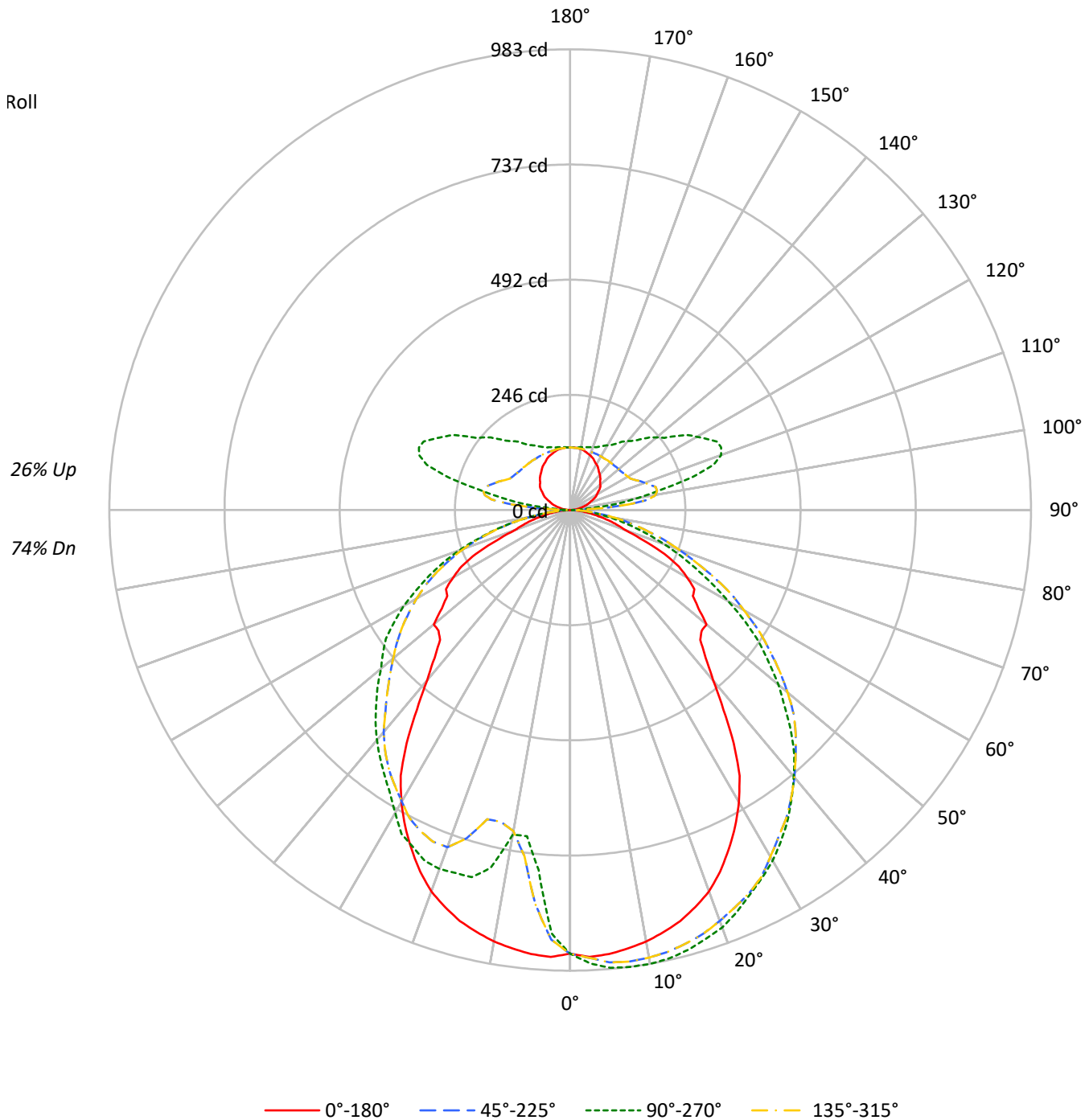
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3320.7 lumens
Efficiency: N/A
Efficacy: 110.7 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





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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°	8782	8782	8782	8782
5°	8838	8866	8838	6971
10°	8769	8733	8769	6243
15°	8664	8544	8664	7134
20°	8473	8319	8473	7149
25°	8092	7992	8092	6997
30°	7604	7721	7604	6665
35°	6769	7378	6769	6300
40°	5631	6974	5631	6023
45°	5021	6501	5021	5706
50°	5323	5937	5323	5387
55°	4994	5329	4994	5203
60°	5128	4527	5128	4765
65°	4626	3740	4626	4183
70°	3181	2981	3181	3505
75°	2761	2204	2761	2638
80°	2181	1457	2181	1586
85°	1184	771	1184	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	2.6
10°-20°	242.6	7.3
20°-30°	375.0	11.3
30°-40°	447.6	13.5
40°-50°	450.3	13.6
50°-60°	391.8	11.8
60°-70°	277.8	8.4
70°-80°	146.9	4.4
80°-90°	37.1	1.1
90°-100°	65.1	2.0
100°-110°	171.2	5.2
110°-120°	177.5	5.3
120°-130°	142.4	4.3
130°-140°	111.7	3.4
140°-150°	85.8	2.6
150°-160°	61.8	1.9
160°-170°	37.8	1.1
170°-180°	12.8	0.4
0°-30°	703.0	21.2
0°-40°	1150.6	34.7
0°-60°	1992.7	60.0
0°-90°	2454.5	73.9
90°-120°	413.9	12.5
90°-150°	753.8	22.7
90°-180°	866.0	26.1
0°-180°	3320.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	946	946	946	946	946	
5°	951	980	951	771	951	90
15°	908	972	908	811	908	255
25°	800	906	800	793	800	367
35°	608	809	608	690	608	376
45°	392	666	392	585	392	314
55°	320	492	320	480	320	294
65°	222	296	222	331	222	212
75°	84	141	84	168	84	89
85°	14	36	14	30	14	19
90°	1	3	1	3	1	1
95°	9	39	9	39	9	10
105°	31	268	31	268	31	33
115°	55	345	55	345	55	54
125°	76	275	76	275	76	68
135°	91	213	91	213	91	70
145°	105	173	105	173	105	66
155°	119	149	119	149	119	55
165°	128	139	128	139	128	36
175°	134	134	134	134	134	13
180°	134	134	134	134	134	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	954.5	954.5	960.0	961.7	961.7	959.1	956.4	959.1	967.1	969.8	968.9
5°	950.9	958.2	968.0	969.8	971.6	970.7	968.9	970.7	979.7	981.4	982.3
7.5°	943.7	957.3	969.8	972.5	975.2	972.5	971.6	973.4	982.3	984.1	984.1
10°	934.8	953.6	968.0	969.8	972.5	969.8	969.8	973.4	982.3	984.1	985.0
12.5°	922.3	948.2	961.7	963.5	967.1	966.2	965.3	968.9	977.9	979.7	979.7
15°	907.9	938.4	950.9	952.7	959.1	957.3	957.3	960.8	970.7	973.4	972.5
17.5°	888.2	925.8	940.2	942.9	947.3	946.4	947.3	950.9	960.0	961.7	962.6
20°	865.9	908.8	925.8	928.5	933.0	933.0	933.0	937.5	946.4	950.0	950.0
22.5°	835.4	890.9	908.8	910.6	916.0	916.0	917.8	924.1	932.1	933.0	933.0
25°	799.6	871.2	886.4	891.8	897.2	899.9	902.6	906.1	908.8	907.9	908.8
27.5°	762.0	846.2	865.9	869.4	876.6	879.3	882.9	883.8	884.7	887.3	885.6
30°	719.9	811.2	840.8	844.4	856.0	857.8	854.2	856.0	860.5	862.3	864.1
32.5°	672.5	759.3	814.8	822.9	833.6	828.3	827.4	830.0	837.2	837.2	839.0
35°	608.0	719.0	790.7	797.8	805.9	799.6	803.2	804.1	808.6	811.2	810.3
37.5°	537.3	684.1	765.6	771.0	777.2	769.2	774.5	777.2	780.8	779.0	779.0
40°	474.6	629.5	736.0	739.6	745.0	738.7	744.1	745.9	747.7	745.9	745.0
42.5°	428.0	569.5	704.7	709.2	705.6	710.1	711.9	715.4	712.8	709.2	709.2
45°	392.2	553.4	670.7	676.1	670.7	677.8	680.5	680.5	672.5	670.7	669.8
47.5°	380.6	521.2	636.7	636.7	634.0	642.9	647.4	641.1	633.1	630.4	630.4
50°	379.7	485.3	590.1	586.5	599.1	609.8	605.3	599.1	592.8	582.9	582.9
52.5°	344.8	441.5	530.1	543.5	563.2	569.5	562.3	556.1	545.3	540.9	537.3
55°	319.7	395.8	475.5	502.4	523.0	531.0	517.6	511.3	495.2	492.5	490.7
57.5°	314.3	329.6	425.4	459.4	484.5	483.6	475.5	463.9	450.4	447.7	446.9
60°	288.3	238.2	371.6	411.9	437.9	435.2	428.0	417.3	404.8	403.0	401.2
62.5°	261.4	172.8	310.7	356.4	393.1	392.2	386.0	369.9	360.9	356.4	352.8
65°	222.0	145.0	221.1	296.3	349.3	351.1	337.6	326.0	316.0	310.7	309.8
67.5°	169.2	118.2	149.5	247.1	307.1	305.3	288.3	282.9	270.4	267.7	262.3
70°	125.3	78.8	103.9	200.5	265.9	261.4	248.0	241.7	230.1	223.8	220.2
72.5°	103.9	63.6	76.1	155.8	223.8	218.5	206.8	199.7	189.8	184.4	180.9
75°	84.2	67.1	58.2	115.5	181.7	178.2	167.4	160.3	152.2	145.0	145.9
77.5°	61.8	62.7	46.6	85.1	144.1	138.8	132.5	123.6	120.0	112.8	112.8
80°	46.6	49.2	34.9	58.2	103.9	103.9	98.5	92.2	85.9	82.4	82.4
82.5°	31.3	31.3	26.0	36.7	70.7	68.0	64.5	62.7	59.1	57.3	57.3
85°	14.3	17.9	16.1	22.4	38.5	40.3	40.3	38.5	37.6	35.8	36.7
87.5°	4.5	8.1	9.8	12.5	19.7	20.6	21.5	21.5	21.5	22.4	22.4
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.7	15.8	17.3	24.4	33.8	38.4	33.7	24.2	17.0	16.3
95°	8.6	19.8	31.0	33.8	59.9	94.7	112.2	100.1	75.9	57.8	55.8
97.5°	14.9	24.7	34.6	37.1	80.7	138.8	167.9	160.3	145.0	133.5	129.6
100°	19.7	28.6	37.6	39.8	88.2	152.7	185.0	185.5	186.7	187.5	182.8
102.5°	23.8	32.1	40.6	42.6	91.7	157.1	189.8	199.6	219.0	233.6	229.6
105°	30.9	38.0	44.9	46.7	94.3	157.6	189.3	211.1	254.7	287.4	285.2
107.5°	38.1	44.6	51.2	52.8	94.7	150.6	178.5	209.0	269.8	315.4	316.0
110°	42.9	48.8	54.7	56.2	94.0	144.4	169.6	203.6	271.5	322.6	324.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.6	53.3	58.9	60.3	94.0	139.0	161.4	196.3	265.8	318.0	321.4
115°	54.8	60.0	65.2	66.5	94.9	132.8	151.7	185.2	252.2	302.4	307.2
117.5°	61.9	66.6	71.4	72.5	96.7	128.8	145.0	175.2	235.6	281.0	286.3
120°	66.0	70.5	74.9	76.0	98.0	127.5	142.2	169.8	225.2	266.6	271.7
122.5°	70.0	74.5	79.0	80.1	100.1	126.8	140.1	165.0	214.8	252.1	257.1
125°	76.2	80.3	84.4	85.5	103.0	126.2	137.9	159.0	201.4	233.0	237.7
127.5°	81.2	85.4	89.5	90.6	105.7	125.9	136.0	154.2	190.5	217.7	221.7
130°	83.9	88.4	92.8	94.0	107.8	126.1	135.3	151.5	183.8	208.1	211.7
132.5°	86.8	91.2	95.7	96.8	109.4	126.2	134.7	149.2	178.1	199.8	203.1
135°	90.9	94.9	99.0	100.0	111.2	126.1	133.6	145.7	169.9	188.1	190.9
137.5°	95.1	99.1	103.1	104.1	113.9	126.9	133.4	143.6	164.1	179.5	181.8
140°	98.6	102.2	106.0	106.9	115.5	127.0	132.8	141.6	159.4	172.6	174.8
142.5°	101.3	104.7	108.1	109.0	116.9	127.5	132.8	140.6	156.1	167.8	169.7
145°	105.4	108.3	111.4	112.1	118.7	127.5	131.9	138.2	150.9	160.5	162.0
147.5°	109.5	112.4	115.3	116.0	121.3	128.4	131.9	136.9	146.9	154.4	155.6
150°	112.2	114.8	117.5	118.1	122.7	128.8	131.9	136.1	144.6	150.9	151.8
152.5°	115.0	116.9	118.9	119.4	123.6	129.1	131.9	135.5	142.7	148.2	148.9
155°	119.1	120.5	122.0	122.4	125.5	129.7	131.9	134.7	140.6	144.9	145.3
157.5°	122.1	123.6	125.0	125.3	127.5	130.4	131.9	134.1	138.6	141.9	142.3
160°	124.2	125.3	126.4	126.7	128.4	130.7	131.9	133.8	137.6	140.5	140.7
162.5°	126.2	127.0	127.9	128.1	129.4	131.1	131.9	133.5	136.7	139.1	139.3
165°	128.5	129.2	130.0	130.2	130.7	131.5	131.9	133.0	135.4	137.1	137.3
167.5°	130.5	130.9	131.3	131.3	131.8	132.4	132.8	133.5	135.0	136.2	136.3
170°	131.9	132.2	132.6	132.7	132.7	132.8	132.8	133.5	135.0	136.2	136.2
172.5°	132.6	132.7	132.8	132.8	132.8	132.8	132.8	133.4	134.6	135.5	135.4
175°	133.6	133.6	133.6	133.6	133.3	133.0	132.8	133.1	133.9	134.5	134.5
177.5°	133.6	133.6	133.6	133.6	133.4	133.1	133.0	133.2	133.8	134.3	134.2
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	970.7	968.0	970.7	968.9	969.8	967.1	959.1	956.4	959.1	961.7	961.7
5°	982.3	980.5	982.3	982.3	981.4	979.7	970.7	968.9	970.7	971.6	969.8
7.5°	985.9	983.2	985.9	984.1	984.1	982.3	973.4	971.6	972.5	975.2	972.5
10°	985.9	983.2	985.9	985.0	984.1	982.3	973.4	969.8	969.8	972.5	969.8
12.5°	981.4	979.7	981.4	979.7	979.7	977.9	968.9	965.3	966.2	967.1	963.5
15°	974.3	971.6	974.3	972.5	973.4	970.7	960.8	957.3	957.3	959.1	952.7
17.5°	963.5	960.0	963.5	962.6	961.7	960.0	950.9	947.3	946.4	947.3	942.9
20°	950.9	948.2	950.9	950.0	950.0	946.4	937.5	933.0	933.0	933.0	928.5
22.5°	931.2	928.5	931.2	933.0	933.0	932.1	924.1	917.8	916.0	916.0	910.6
25°	908.8	906.1	908.8	908.8	907.9	908.8	906.1	902.6	899.9	897.2	891.8
27.5°	887.3	885.6	887.3	885.6	887.3	884.7	883.8	882.9	879.3	876.6	869.4
30°	865.9	864.1	865.9	864.1	862.3	860.5	856.0	854.2	857.8	856.0	844.4
32.5°	839.0	837.2	839.0	839.0	837.2	837.2	830.0	827.4	828.3	833.6	822.9
35°	811.2	808.6	811.2	810.3	811.2	808.6	804.1	803.2	799.6	805.9	797.8
37.5°	779.0	776.3	779.0	779.0	779.0	780.8	777.2	774.5	769.2	777.2	771.0
40°	745.9	742.3	745.9	745.0	745.9	747.7	745.9	744.1	738.7	745.0	739.6
42.5°	708.3	707.4	708.3	709.2	709.2	712.8	715.4	711.9	710.1	705.6	709.2
45°	668.0	666.2	668.0	669.8	670.7	672.5	680.5	680.5	677.8	670.7	676.1
47.5°	625.0	620.5	625.0	630.4	630.4	633.1	641.1	647.4	642.9	634.0	636.7
50°	579.4	580.3	579.4	582.9	582.9	592.8	599.1	605.3	609.8	599.1	586.5
52.5°	534.6	533.7	534.6	537.3	540.9	545.3	556.1	562.3	569.5	563.2	543.5
55°	489.8	491.6	489.8	490.7	492.5	495.2	511.3	517.6	531.0	523.0	502.4
57.5°	445.1	442.4	445.1	446.9	447.7	450.4	463.9	475.5	483.6	484.5	459.4
60°	393.1	389.6	393.1	401.2	403.0	404.8	417.3	428.0	435.2	437.9	411.9
62.5°	347.5	341.2	347.5	352.8	356.4	360.9	369.9	386.0	392.2	393.1	356.4
65°	299.0	296.3	299.0	309.8	310.7	316.0	326.0	337.6	351.1	349.3	296.3
67.5°	255.2	255.2	255.2	262.3	267.7	270.4	282.9	288.3	305.3	307.1	247.1
70°	214.9	214.0	214.9	220.2	223.8	230.1	241.7	248.0	261.4	265.9	200.5
72.5°	176.4	175.5	176.4	180.9	184.4	189.8	199.7	206.8	218.5	223.8	155.8
75°	142.4	140.6	142.4	145.9	145.0	152.2	160.3	167.4	178.2	181.7	115.5
77.5°	109.2	109.2	109.2	112.8	112.8	120.0	123.6	132.5	138.8	144.1	85.1
80°	81.5	80.6	81.5	82.4	82.4	85.9	92.2	98.5	103.9	103.9	58.2
82.5°	57.3	55.5	57.3	57.3	57.3	59.1	62.7	64.5	68.0	70.7	36.7
85°	35.8	35.8	35.8	36.7	35.8	37.6	38.5	40.3	40.3	38.5	22.4
87.5°	23.3	22.4	23.3	22.4	22.4	21.5	21.5	21.5	20.6	19.7	12.5
90°	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8	3.9	2.5
92.5°	13.6	10.9	13.6	16.3	17.0	24.2	33.7	38.4	33.8	24.4	17.3
95°	47.6	39.4	47.6	55.8	57.8	75.9	100.1	112.2	94.7	59.9	33.8
97.5°	114.0	98.4	114.0	129.6	133.5	145.0	160.3	167.9	138.8	80.7	37.1
100°	164.3	145.7	164.3	182.8	187.5	186.7	185.5	185.0	152.7	88.2	39.8
102.5°	213.6	197.7	213.6	229.6	233.6	219.0	199.6	189.8	157.1	91.7	42.6
105°	276.7	268.1	276.7	285.2	287.4	254.7	211.1	189.3	157.6	94.3	46.7
107.5°	318.0	320.1	318.0	316.0	315.4	269.8	209.0	178.5	150.6	94.7	52.8
110°	333.7	342.6	333.7	324.8	322.6	271.5	203.6	169.6	144.4	94.0	56.2



TEST NUMBER: P933958

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	335.1	348.8	335.1	321.4	318.0	265.8	196.3	161.4	139.0	94.0	60.3
115°	326.3	345.2	326.3	307.2	302.4	252.2	185.2	151.7	132.8	94.9	66.5
117.5°	307.4	328.5	307.4	286.3	281.0	235.6	175.2	145.0	128.8	96.7	72.5
120°	292.2	312.6	292.2	271.7	266.6	225.2	169.8	142.2	127.5	98.0	76.0
122.5°	277.4	297.6	277.4	257.1	252.1	214.8	165.0	140.1	126.8	100.1	80.1
125°	256.3	275.0	256.3	237.7	233.0	201.4	159.0	137.9	126.2	103.0	85.5
127.5°	237.3	253.0	237.3	221.7	217.7	190.5	154.2	136.0	125.9	105.7	90.6
130°	226.2	240.7	226.2	211.7	208.1	183.8	151.5	135.3	126.1	107.8	94.0
132.5°	216.0	229.0	216.0	203.1	199.8	178.1	149.2	134.7	126.2	109.4	96.8
135°	202.2	213.4	202.2	190.9	188.1	169.9	145.7	133.6	126.1	111.2	100.0
137.5°	191.0	200.2	191.0	181.8	179.5	164.1	143.6	133.4	126.9	113.9	104.1
140°	183.3	191.9	183.3	174.8	172.6	159.4	141.6	132.8	127.0	115.5	106.9
142.5°	177.0	184.3	177.0	169.7	167.8	156.1	140.6	132.8	127.5	116.9	109.0
145°	167.5	173.1	167.5	162.0	160.5	150.9	138.2	131.9	127.5	118.7	112.1
147.5°	160.2	164.8	160.2	155.6	154.4	146.9	136.9	131.9	128.4	121.3	116.0
150°	155.6	159.4	155.6	151.8	150.9	144.6	136.1	131.9	128.8	122.7	118.1
152.5°	151.7	154.5	151.7	148.9	148.2	142.7	135.5	131.9	129.1	123.6	119.4
155°	147.2	149.1	147.2	145.3	144.9	140.6	134.7	131.9	129.7	125.5	122.4
157.5°	143.6	145.0	143.6	142.3	141.9	138.6	134.1	131.9	130.4	127.5	125.3
160°	141.5	142.2	141.5	140.7	140.5	137.6	133.8	131.9	130.7	128.4	126.7
162.5°	140.0	140.7	140.0	139.3	139.1	136.7	133.5	131.9	131.1	129.4	128.1
165°	138.1	138.8	138.1	137.3	137.1	135.4	133.0	131.9	131.5	130.7	130.2
167.5°	136.5	136.9	136.5	136.3	136.2	135.0	133.5	132.8	132.4	131.8	131.3
170°	136.2	136.2	136.2	136.2	136.2	135.0	133.5	132.8	132.8	132.7	132.7
172.5°	135.1	134.8	135.1	135.4	135.5	134.6	133.4	132.8	132.8	132.8	132.8
175°	134.5	134.5	134.5	134.5	134.5	133.9	133.1	132.8	133.0	133.3	133.6
177.5°	133.9	133.6	133.9	134.2	134.3	133.8	133.2	133.0	133.1	133.4	133.6
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



TEST NUMBER: P933958

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	960.0	954.5	954.5	945.5	942.0	939.3	934.8	921.4	917.8	914.2	919.6
5°	968.0	958.2	950.9	934.8	921.4	916.0	899.0	866.8	845.3	829.1	820.2
7.5°	969.8	957.3	943.7	918.7	886.4	872.1	820.2	761.1	745.0	730.7	721.7
10°	968.0	953.6	934.8	897.2	821.1	796.0	744.1	705.6	695.7	693.1	695.7
12.5°	961.7	948.2	922.3	859.6	753.0	736.0	705.6	683.2	681.4	685.9	710.1
15°	950.9	938.4	907.9	809.5	715.4	702.9	681.4	673.4	683.2	714.5	787.1
17.5°	940.2	925.8	888.2	760.2	686.8	677.8	662.6	678.7	734.2	776.3	800.5
20°	925.8	908.8	865.9	724.4	666.2	658.1	651.0	723.5	765.6	780.8	794.2
22.5°	908.8	890.9	835.4	699.3	644.7	638.4	642.9	748.6	765.6	776.3	788.0
25°	886.4	871.2	799.6	679.6	627.7	620.5	637.6	745.9	755.7	758.4	781.7
27.5°	865.9	846.2	762.0	661.7	607.1	604.4	642.0	734.2	741.4	744.1	769.2
30°	840.8	811.2	719.9	642.9	585.6	584.7	642.9	719.9	718.1	725.3	750.4
32.5°	814.8	759.3	672.5	619.6	565.0	564.1	636.7	698.4	696.6	706.5	725.3
35°	790.7	719.0	608.0	592.8	539.1	540.0	621.4	673.4	674.3	683.2	694.9
37.5°	765.6	684.1	537.3	563.2	514.0	514.0	600.8	650.1	648.3	651.0	667.1
40°	736.0	629.5	474.6	524.7	490.7	488.0	575.8	625.0	618.8	617.9	640.2
42.5°	704.7	569.5	428.0	473.7	463.9	460.3	545.3	594.6	582.9	585.6	614.3
45°	670.7	553.4	392.2	400.3	436.1	433.4	512.2	559.7	551.6	558.8	588.3
47.5°	636.7	521.2	380.6	332.3	406.6	405.7	475.5	525.6	521.2	528.3	559.7
50°	590.1	485.3	379.7	284.7	373.4	377.0	431.6	492.5	492.5	498.8	531.9
52.5°	530.1	441.5	344.8	257.8	334.9	345.7	393.1	463.9	465.7	471.9	501.5
55°	475.5	395.8	319.7	237.3	289.2	312.5	355.5	434.3	437.9	444.2	471.0
57.5°	425.4	329.6	314.3	213.1	247.1	269.5	322.4	405.7	407.5	412.8	438.8
60°	371.6	238.2	288.3	187.1	210.4	227.4	291.9	371.6	377.9	381.5	403.9
62.5°	310.7	172.8	261.4	169.2	192.5	196.1	266.8	339.4	347.5	350.2	363.6
65°	221.1	145.0	222.0	154.0	173.7	174.6	239.9	306.2	313.4	317.8	327.8
67.5°	149.5	118.2	169.2	139.7	159.4	160.3	214.0	267.7	277.5	281.1	287.4
70°	103.9	78.8	125.3	124.4	143.2	145.0	186.2	232.8	241.7	244.4	248.0
72.5°	76.1	63.6	103.9	111.9	126.2	128.0	157.6	193.4	202.3	205.0	206.8
75°	58.2	67.1	84.2	97.6	107.4	108.3	128.9	157.6	163.8	165.6	166.5
77.5°	46.6	62.7	61.8	78.8	87.7	85.9	101.2	121.8	127.1	127.1	127.1
80°	34.9	49.2	46.6	56.4	64.5	62.7	72.5	86.8	88.6	90.4	89.5
82.5°	26.0	31.3	31.3	35.8	43.0	41.2	48.3	56.4	56.4	56.4	58.2
85°	16.1	17.9	14.3	18.8	24.2	23.3	26.9	30.4	31.3	31.3	29.5
87.5°	9.8	8.1	4.5	7.2	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6
92.5°	15.8	9.7	3.6	9.7	15.8	17.3	24.4	33.8	38.4	33.7	24.2
95°	31.0	19.8	8.6	19.8	31.0	33.8	59.9	94.7	112.2	100.1	75.9
97.5°	34.6	24.7	14.9	24.7	34.6	37.1	80.7	138.8	167.9	160.3	145.0
100°	37.6	28.6	19.7	28.6	37.6	39.8	88.2	152.7	185.0	185.5	186.7
102.5°	40.6	32.1	23.8	32.1	40.6	42.6	91.7	157.1	189.8	199.6	219.0
105°	44.9	38.0	30.9	38.0	44.9	46.7	94.3	157.6	189.3	211.1	254.7
107.5°	51.2	44.6	38.1	44.6	51.2	52.8	94.7	150.6	178.5	209.0	269.8
110°	54.7	48.8	42.9	48.8	54.7	56.2	94.0	144.4	169.6	203.6	271.5



TEST NUMBER: P933958

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.9	53.3	47.6	53.3	58.9	60.3	94.0	139.0	161.4	196.3	265.8
115°	65.2	60.0	54.8	60.0	65.2	66.5	94.9	132.8	151.7	185.2	252.2
117.5°	71.4	66.6	61.9	66.6	71.4	72.5	96.7	128.8	145.0	175.2	235.6
120°	74.9	70.5	66.0	70.5	74.9	76.0	98.0	127.5	142.2	169.8	225.2
122.5°	79.0	74.5	70.0	74.5	79.0	80.1	100.1	126.8	140.1	165.0	214.8
125°	84.4	80.3	76.2	80.3	84.4	85.5	103.0	126.2	137.9	159.0	201.4
127.5°	89.5	85.4	81.2	85.4	89.5	90.6	105.7	125.9	136.0	154.2	190.5
130°	92.8	88.4	83.9	88.4	92.8	94.0	107.8	126.1	135.3	151.5	183.8
132.5°	95.7	91.2	86.8	91.2	95.7	96.8	109.4	126.2	134.7	149.2	178.1
135°	99.0	94.9	90.9	94.9	99.0	100.0	111.2	126.1	133.6	145.7	169.9
137.5°	103.1	99.1	95.1	99.1	103.1	104.1	113.9	126.9	133.4	143.6	164.1
140°	106.0	102.2	98.6	102.2	106.0	106.9	115.5	127.0	132.8	141.6	159.4
142.5°	108.1	104.7	101.3	104.7	108.1	109.0	116.9	127.5	132.8	140.6	156.1
145°	111.4	108.3	105.4	108.3	111.4	112.1	118.7	127.5	131.9	138.2	150.9
147.5°	115.3	112.4	109.5	112.4	115.3	116.0	121.3	128.4	131.9	136.9	146.9
150°	117.5	114.8	112.2	114.8	117.5	118.1	122.7	128.8	131.9	136.1	144.6
152.5°	118.9	116.9	115.0	116.9	118.9	119.4	123.6	129.1	131.9	135.5	142.7
155°	122.0	120.5	119.1	120.5	122.0	122.4	125.5	129.7	131.9	134.7	140.6
157.5°	125.0	123.6	122.1	123.6	125.0	125.3	127.5	130.4	131.9	134.1	138.6
160°	126.4	125.3	124.2	125.3	126.4	126.7	128.4	130.7	131.9	133.8	137.6
162.5°	127.9	127.0	126.2	127.0	127.9	128.1	129.4	131.1	131.9	133.5	136.7
165°	130.0	129.2	128.5	129.2	130.0	130.2	130.7	131.5	131.9	133.0	135.4
167.5°	131.3	130.9	130.5	130.9	131.3	131.3	131.8	132.4	132.8	133.5	135.0
170°	132.6	132.2	131.9	132.2	132.6	132.7	132.7	132.8	132.8	133.5	135.0
172.5°	132.8	132.7	132.6	132.7	132.8	132.8	132.8	132.8	132.8	133.4	134.6
175°	133.6	133.6	133.6	133.6	133.6	133.6	133.3	133.0	132.8	133.1	133.9
177.5°	133.6	133.6	133.6	133.6	133.6	133.6	133.4	133.1	133.0	133.2	133.8
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



TEST NUMBER: P933958

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	913.3	910.6	914.2	904.4	914.2	910.6	913.3	919.6	914.2	917.8	921.4
5°	801.4	796.9	782.6	771.0	782.6	796.9	801.4	820.2	829.1	845.3	866.8
7.5°	716.3	712.8	709.2	702.0	709.2	712.8	716.3	721.7	730.7	745.0	761.1
10°	697.5	698.4	703.8	702.9	703.8	698.4	697.5	695.7	693.1	695.7	705.6
12.5°	745.9	753.9	783.5	781.7	783.5	753.9	745.9	710.1	685.9	681.4	683.2
15°	801.4	804.1	810.3	811.2	810.3	804.1	801.4	787.1	714.5	683.2	673.4
17.5°	806.8	807.7	812.1	812.1	812.1	807.7	806.8	800.5	776.3	734.2	678.7
20°	802.3	804.1	813.0	814.8	813.0	804.1	802.3	794.2	780.8	765.6	723.5
22.5°	800.5	804.1	811.2	810.3	811.2	804.1	800.5	788.0	776.3	765.6	748.6
25°	791.5	791.5	792.4	793.3	792.4	791.5	791.5	781.7	758.4	755.7	745.9
27.5°	772.7	774.5	779.9	779.0	779.9	774.5	772.7	769.2	744.1	741.4	734.2
30°	755.7	753.9	749.5	745.9	749.5	753.9	755.7	750.4	725.3	718.1	719.9
32.5°	727.1	722.6	718.1	715.4	718.1	722.6	727.1	725.3	706.5	696.6	698.4
35°	693.1	694.0	693.1	690.4	693.1	694.0	693.1	694.9	683.2	674.3	673.4
37.5°	668.9	670.7	669.8	666.2	669.8	670.7	668.9	667.1	651.0	648.3	650.1
40°	643.8	644.7	643.8	641.1	643.8	644.7	643.8	640.2	617.9	618.8	625.0
42.5°	619.6	618.8	616.1	614.3	616.1	618.8	619.6	614.3	585.6	582.9	594.6
45°	591.9	592.8	587.4	584.7	587.4	592.8	591.9	588.3	558.8	551.6	559.7
47.5°	564.1	564.1	559.7	557.0	559.7	564.1	564.1	559.7	528.3	521.2	525.6
50°	534.6	533.7	527.4	526.5	527.4	533.7	534.6	531.9	498.8	492.5	492.5
52.5°	500.6	500.6	501.5	503.3	501.5	500.6	500.6	501.5	471.9	465.7	463.9
55°	471.0	471.9	478.2	480.0	478.2	471.9	471.0	471.0	444.2	437.9	434.3
57.5°	440.6	440.6	445.1	445.1	445.1	440.6	440.6	438.8	412.8	407.5	405.7
60°	405.7	407.5	411.0	410.1	411.0	407.5	405.7	403.9	381.5	377.9	371.6
62.5°	369.0	370.7	371.6	369.9	371.6	370.7	369.0	363.6	350.2	347.5	339.4
65°	330.5	332.3	333.1	331.4	333.1	332.3	330.5	327.8	317.8	313.4	306.2
67.5°	291.0	290.1	289.2	292.8	289.2	290.1	291.0	287.4	281.1	277.5	267.7
70°	250.7	250.7	249.8	251.6	249.8	250.7	250.7	248.0	244.4	241.7	232.8
72.5°	207.7	206.8	210.4	207.7	210.4	206.8	207.7	206.8	205.0	202.3	193.4
75°	165.6	167.4	165.6	168.3	165.6	167.4	165.6	166.5	165.6	163.8	157.6
77.5°	126.2	128.0	126.2	126.2	126.2	128.0	126.2	127.1	127.1	127.1	121.8
80°	89.5	88.6	88.6	87.7	88.6	88.6	89.5	89.5	90.4	88.6	86.8
82.5°	57.3	56.4	56.4	58.2	56.4	56.4	57.3	58.2	56.4	56.4	56.4
85°	31.3	32.2	30.4	30.4	30.4	32.2	31.3	29.5	31.3	31.3	30.4
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.6	6.1	6.8	5.8
92.5°	17.0	16.3	13.6	10.9	13.6	16.3	17.0	24.2	33.7	38.4	33.8
95°	57.8	55.8	47.6	39.4	47.6	55.8	57.8	75.9	100.1	112.2	94.7
97.5°	133.5	129.6	114.0	98.4	114.0	129.6	133.5	145.0	160.3	167.9	138.8
100°	187.5	182.8	164.3	145.7	164.3	182.8	187.5	186.7	185.5	185.0	152.7
102.5°	233.6	229.6	213.6	197.7	213.6	229.6	233.6	219.0	199.6	189.8	157.1
105°	287.4	285.2	276.7	268.1	276.7	285.2	287.4	254.7	211.1	189.3	157.6
107.5°	315.4	316.0	318.0	320.1	318.0	316.0	315.4	269.8	209.0	178.5	150.6
110°	322.6	324.8	333.7	342.6	333.7	324.8	322.6	271.5	203.6	169.6	144.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	318.0	321.4	335.1	348.8	335.1	321.4	318.0	265.8	196.3	161.4	139.0
115°	302.4	307.2	326.3	345.2	326.3	307.2	302.4	252.2	185.2	151.7	132.8
117.5°	281.0	286.3	307.4	328.5	307.4	286.3	281.0	235.6	175.2	145.0	128.8
120°	266.6	271.7	292.2	312.6	292.2	271.7	266.6	225.2	169.8	142.2	127.5
122.5°	252.1	257.1	277.4	297.6	277.4	257.1	252.1	214.8	165.0	140.1	126.8
125°	233.0	237.7	256.3	275.0	256.3	237.7	233.0	201.4	159.0	137.9	126.2
127.5°	217.7	221.7	237.3	253.0	237.3	221.7	217.7	190.5	154.2	136.0	125.9
130°	208.1	211.7	226.2	240.7	226.2	211.7	208.1	183.8	151.5	135.3	126.1
132.5°	199.8	203.1	216.0	229.0	216.0	203.1	199.8	178.1	149.2	134.7	126.2
135°	188.1	190.9	202.2	213.4	202.2	190.9	188.1	169.9	145.7	133.6	126.1
137.5°	179.5	181.8	191.0	200.2	191.0	181.8	179.5	164.1	143.6	133.4	126.9
140°	172.6	174.8	183.3	191.9	183.3	174.8	172.6	159.4	141.6	132.8	127.0
142.5°	167.8	169.7	177.0	184.3	177.0	169.7	167.8	156.1	140.6	132.8	127.5
145°	160.5	162.0	167.5	173.1	167.5	162.0	160.5	150.9	138.2	131.9	127.5
147.5°	154.4	155.6	160.2	164.8	160.2	155.6	154.4	146.9	136.9	131.9	128.4
150°	150.9	151.8	155.6	159.4	155.6	151.8	150.9	144.6	136.1	131.9	128.8
152.5°	148.2	148.9	151.7	154.5	151.7	148.9	148.2	142.7	135.5	131.9	129.1
155°	144.9	145.3	147.2	149.1	147.2	145.3	144.9	140.6	134.7	131.9	129.7
157.5°	141.9	142.3	143.6	145.0	143.6	142.3	141.9	138.6	134.1	131.9	130.4
160°	140.5	140.7	141.5	142.2	141.5	140.7	140.5	137.6	133.8	131.9	130.7
162.5°	139.1	139.3	140.0	140.7	140.0	139.3	139.1	136.7	133.5	131.9	131.1
165°	137.1	137.3	138.1	138.8	138.1	137.3	137.1	135.4	133.0	131.9	131.5
167.5°	136.2	136.3	136.5	136.9	136.5	136.3	136.2	135.0	133.5	132.8	132.4
170°	136.2	136.2	136.2	136.2	136.2	136.2	136.2	135.0	133.5	132.8	132.8
172.5°	135.5	135.4	135.1	134.8	135.1	135.4	135.5	134.6	133.4	132.8	132.8
175°	134.5	134.5	134.5	134.5	134.5	134.5	134.5	133.9	133.1	132.8	133.0
177.5°	134.3	134.2	133.9	133.6	133.9	134.2	134.3	133.8	133.2	133.0	133.1
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	946.4	946.4	946.4	946.4	946.4
2.5°	934.8	939.3	942.0	945.5	954.5
5°	899.0	916.0	921.4	934.8	950.9
7.5°	820.2	872.1	886.4	918.7	943.7
10°	744.1	796.0	821.1	897.2	934.8
12.5°	705.6	736.0	753.0	859.6	922.3
15°	681.4	702.9	715.4	809.5	907.9
17.5°	662.6	677.8	686.8	760.2	888.2
20°	651.0	658.1	666.2	724.4	865.9
22.5°	642.9	638.4	644.7	699.3	835.4
25°	637.6	620.5	627.7	679.6	799.6
27.5°	642.0	604.4	607.1	661.7	762.0
30°	642.9	584.7	585.6	642.9	719.9
32.5°	636.7	564.1	565.0	619.6	672.5
35°	621.4	540.0	539.1	592.8	608.0
37.5°	600.8	514.0	514.0	563.2	537.3
40°	575.8	488.0	490.7	524.7	474.6
42.5°	545.3	460.3	463.9	473.7	428.0
45°	512.2	433.4	436.1	400.3	392.2
47.5°	475.5	405.7	406.6	332.3	380.6
50°	431.6	377.0	373.4	284.7	379.7
52.5°	393.1	345.7	334.9	257.8	344.8
55°	355.5	312.5	289.2	237.3	319.7
57.5°	322.4	269.5	247.1	213.1	314.3
60°	291.9	227.4	210.4	187.1	288.3
62.5°	266.8	196.1	192.5	169.2	261.4
65°	239.9	174.6	173.7	154.0	222.0
67.5°	214.0	160.3	159.4	139.7	169.2
70°	186.2	145.0	143.2	124.4	125.3
72.5°	157.6	128.0	126.2	111.9	103.9
75°	128.9	108.3	107.4	97.6	84.2
77.5°	101.2	85.9	87.7	78.8	61.8
80°	72.5	62.7	64.5	56.4	46.6
82.5°	48.3	41.2	43.0	35.8	31.3
85°	26.9	23.3	24.2	18.8	14.3
87.5°	12.5	10.7	10.7	7.2	4.5
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.4	17.3	15.8	9.7	3.6
95°	59.9	33.8	31.0	19.8	8.6
97.5°	80.7	37.1	34.6	24.7	14.9
100°	88.2	39.8	37.6	28.6	19.7
102.5°	91.7	42.6	40.6	32.1	23.8
105°	94.3	46.7	44.9	38.0	30.9
107.5°	94.7	52.8	51.2	44.6	38.1
110°	94.0	56.2	54.7	48.8	42.9



TEST NUMBER: P933958

CATALOG NUMBER: SQ4-FA-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	94.0	60.3	58.9	53.3	47.6
115°	94.9	66.5	65.2	60.0	54.8
117.5°	96.7	72.5	71.4	66.6	61.9
120°	98.0	76.0	74.9	70.5	66.0
122.5°	100.1	80.1	79.0	74.5	70.0
125°	103.0	85.5	84.4	80.3	76.2
127.5°	105.7	90.6	89.5	85.4	81.2
130°	107.8	94.0	92.8	88.4	83.9
132.5°	109.4	96.8	95.7	91.2	86.8
135°	111.2	100.0	99.0	94.9	90.9
137.5°	113.9	104.1	103.1	99.1	95.1
140°	115.5	106.9	106.0	102.2	98.6
142.5°	116.9	109.0	108.1	104.7	101.3
145°	118.7	112.1	111.4	108.3	105.4
147.5°	121.3	116.0	115.3	112.4	109.5
150°	122.7	118.1	117.5	114.8	112.2
152.5°	123.6	119.4	118.9	116.9	115.0
155°	125.5	122.4	122.0	120.5	119.1
157.5°	127.5	125.3	125.0	123.6	122.1
160°	128.4	126.7	126.4	125.3	124.2
162.5°	129.4	128.1	127.9	127.0	126.2
165°	130.7	130.2	130.0	129.2	128.5
167.5°	131.8	131.3	131.3	130.9	130.5
170°	132.7	132.7	132.6	132.2	131.9
172.5°	132.8	132.8	132.8	132.7	132.6
175°	133.3	133.6	133.6	133.6	133.6
177.5°	133.4	133.6	133.6	133.6	133.6
180°	133.6	133.6	133.6	133.6	133.6



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.31	15.43	15.03	16.18	17.06	17.11	18.23	17.83	18.97	19.86
	3H	14.81	15.82	15.54	16.57	17.48	18.46	19.47	19.20	20.22	21.14
	4H	15.01	15.96	15.76	16.72	17.65	18.91	19.87	19.66	20.63	21.55
	6H	15.14	16.02	15.91	16.79	17.73	19.20	20.08	19.97	20.85	21.79
	8H	15.15	15.99	15.93	16.78	17.72	19.28	20.12	20.06	20.91	21.85
	12H	15.13	15.93	15.91	16.71	17.68	19.32	20.12	20.10	20.91	21.88
4H	2H	15.37	16.32	16.12	17.08	18.01	17.55	18.50	18.31	19.26	20.19
	3H	16.42	17.21	17.18	18.01	18.95	19.07	19.86	19.84	20.66	21.61
	4H	16.70	17.43	17.49	18.22	19.20	19.60	20.32	20.39	21.12	22.09
	6H	16.84	17.47	17.65	18.29	19.27	19.97	20.60	20.78	21.42	22.40
	8H	16.86	17.44	17.66	18.26	19.25	20.08	20.67	20.89	21.48	22.47
	12H	16.84	17.36	17.66	18.20	19.20	20.15	20.67	20.97	21.51	22.51
8H	4H	17.17	17.76	17.98	18.57	19.57	19.75	20.33	20.55	21.15	22.14
	6H	17.44	17.93	18.28	18.79	19.78	20.19	20.67	21.02	21.53	22.52
	8H	17.49	17.92	18.34	18.78	19.79	20.34	20.77	21.18	21.62	22.63
	12H	17.49	17.87	18.33	18.71	19.78	20.44	20.82	21.29	21.67	22.73
12H	4H	17.19	17.72	18.02	18.55	19.55	19.73	20.25	20.55	21.09	22.09
	6H	17.51	17.94	18.35	18.79	19.80	20.19	20.62	21.03	21.47	22.48
	8H	17.59	17.96	18.43	18.81	19.88	20.36	20.73	21.20	21.58	22.65