

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: P934360

Luminaire Tested: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

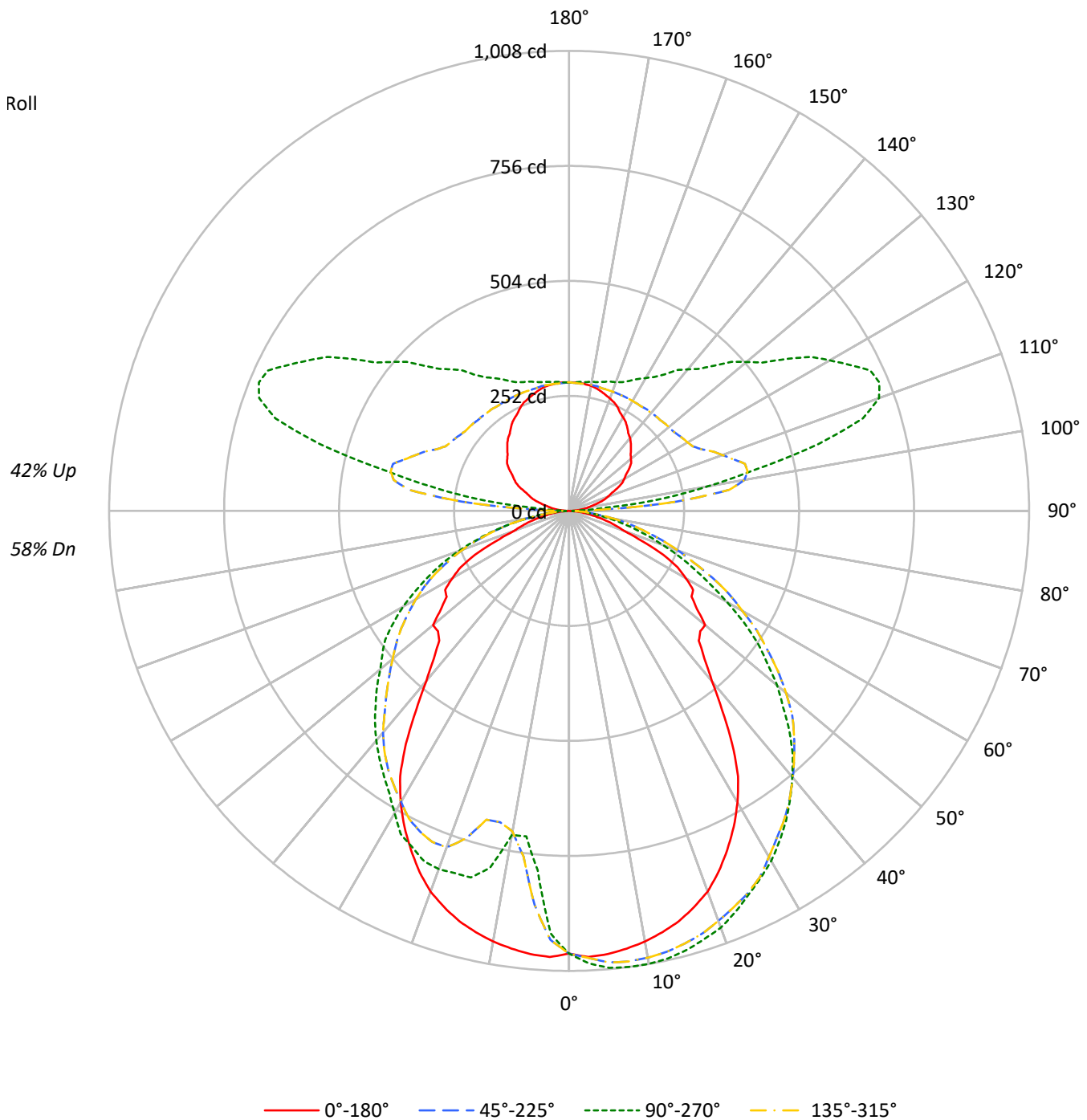
Test Method: LM-79-2019  
Report Number: P934360  
REPORT IS A COMBINATION OF REPORTS P933694 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4343.4 lumens  
Efficiency: N/A  
Efficacy: 119.3 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: General Diffuse  
  
Input Watts (W): 36.4  
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

**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	2.0
10°-20°	248.6	5.7
20°-30°	384.3	8.8
30°-40°	458.8	10.6
40°-50°	461.5	10.6
50°-60°	401.6	9.2
60°-70°	284.7	6.6
70°-80°	150.6	3.5
80°-90°	38.6	0.9
90°-100°	137.4	3.2
100°-110°	361.2	8.3
110°-120°	374.5	8.6
120°-130°	300.4	6.9
130°-140°	235.7	5.4
140°-150°	180.9	4.2
150°-160°	130.3	3.0
160°-170°	79.7	1.8
170°-180°	26.9	0.6
0°-30°	720.6	16.6
0°-40°	1179.4	27.2
0°-60°	2042.5	47.0
0°-90°	2516.4	57.9
90°-120°	873.0	20.1
90°-150°	1590.0	36.6
90°-180°	1827.0	42.1
0°-180°	4343.4	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°	2	7	2	7	2	2
95°	18	83	18	83	18	20
105°	65	566	65	566	65	69
115°	116	728	116	728	116	114
125°	161	580	161	580	161	143
135°	192	450	192	450	192	148
145°	222	365	222	365	222	139
155°	251	314	251	314	251	115
165°	271	293	271	293	271	76
175°	282	284	282	284	282	27
180°	282	282	282	282	282	



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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°	1.9	3.4	5.0	5.3	8.4	12.4	14.4	12.8	9.5	7.2	7.2
92.5°	7.5	20.4	33.3	36.5	51.3	71.0	80.9	70.9	50.9	36.0	34.5
95°	18.2	41.7	65.2	71.1	126.3	199.8	236.6	211.1	160.1	122.0	117.6
97.5°	31.4	52.1	72.9	78.1	170.0	292.7	354.0	338.0	305.8	281.6	273.4
100°	41.6	60.4	79.3	84.0	186.0	322.1	390.2	391.4	393.8	395.5	385.7
102.5°	50.3	67.9	85.4	89.8	193.4	331.4	400.4	420.9	462.0	492.7	484.3
105°	65.1	79.9	94.8	98.6	198.8	332.5	399.3	445.3	537.2	606.2	601.7
107.5°	80.2	94.1	107.9	111.4	199.8	317.7	376.6	440.8	569.1	665.2	666.3
110°	90.4	102.9	115.4	118.6	198.3	304.6	357.7	429.4	572.8	680.4	685.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	100.4	112.3	124.3	127.3	198.3	293.1	340.5	413.9	560.6	670.7	678.0
115°	115.5	126.6	137.6	140.3	200.1	279.9	319.8	390.5	531.9	638.0	648.0
117.5°	130.5	140.5	150.5	153.0	203.9	271.7	305.7	369.5	497.0	592.7	603.8
120°	139.2	148.7	158.0	160.4	206.9	269.0	300.0	358.3	474.9	562.4	573.2
122.5°	147.7	157.3	166.7	169.1	211.3	267.5	295.6	348.1	453.2	531.9	542.5
125°	160.8	169.4	178.0	180.2	217.1	266.3	290.9	335.5	424.7	491.6	501.4
127.5°	171.3	180.1	188.9	191.1	223.0	265.7	287.0	325.2	401.8	459.2	467.5
130°	177.0	186.5	195.8	198.2	227.3	266.0	285.4	319.5	387.7	438.8	446.5
132.5°	182.9	192.3	201.7	204.1	230.8	266.3	284.1	314.6	375.6	421.4	428.3
135°	191.6	200.1	208.8	210.9	234.6	266.0	281.8	307.3	358.5	396.8	402.7
137.5°	200.5	209.0	217.5	219.6	240.3	267.7	281.5	303.0	346.2	378.6	383.5
140°	207.9	215.7	223.6	225.5	243.6	268.0	280.1	298.8	336.2	364.1	368.6
142.5°	213.5	220.8	228.0	229.8	246.6	268.9	280.1	296.5	329.3	353.9	357.7
145°	222.3	228.5	234.8	236.4	250.3	269.0	278.2	291.6	318.4	338.5	341.5
147.5°	231.0	237.1	243.2	244.7	255.9	270.8	278.2	288.8	309.9	325.7	328.2
150°	236.6	242.1	247.7	249.1	258.8	271.7	278.2	287.1	305.0	318.3	320.4
152.5°	242.5	246.7	250.9	251.9	260.7	272.4	278.2	285.9	301.1	312.5	313.9
155°	251.2	254.3	257.4	258.1	264.8	273.7	278.2	284.3	296.4	305.5	306.5
157.5°	257.6	260.6	263.7	264.4	269.0	275.1	278.2	282.9	292.4	299.4	300.2
160°	262.0	264.3	266.7	267.2	270.9	275.8	278.2	282.3	290.4	296.4	296.8
162.5°	266.3	268.1	269.8	270.3	272.9	276.5	278.2	281.6	288.4	293.6	293.9
165°	271.1	272.6	274.3	274.7	275.9	277.4	278.2	280.6	285.5	289.2	289.5
167.5°	275.4	276.1	276.9	277.1	278.1	279.4	280.1	281.7	284.9	287.3	287.5
170°	278.2	279.0	279.7	279.9	280.0	280.1	280.1	281.7	284.9	287.3	287.3
172.5°	279.7	279.9	280.1	280.1	280.1	280.1	280.1	281.4	283.8	285.8	285.6
175°	281.8	281.8	281.8	281.8	281.3	280.4	280.1	280.9	282.6	283.8	283.8
177.5°	281.8	281.8	281.8	281.8	281.4	280.8	280.5	281.2	282.5	283.4	283.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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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°	7.2	7.2	7.2	7.2	7.2	9.5	12.8	14.4	12.4	8.4	5.3
92.5°	28.8	23.0	28.8	34.5	36.0	50.9	70.9	80.9	71.0	51.3	36.5
95°	100.3	83.1	100.3	117.6	122.0	160.1	211.1	236.6	199.8	126.3	71.1
97.5°	240.4	207.5	240.4	273.4	281.6	305.8	338.0	354.0	292.7	170.0	78.1
100°	346.4	307.2	346.4	385.7	395.5	393.8	391.4	390.2	322.1	186.0	84.0
102.5°	450.7	417.1	450.7	484.3	492.7	462.0	420.9	400.4	331.4	193.4	89.8
105°	583.7	565.6	583.7	601.7	606.2	537.2	445.3	399.3	332.5	198.8	98.6
107.5°	670.7	675.1	670.7	666.3	665.2	569.1	440.8	376.6	317.7	199.8	111.4
110°	703.9	722.7	703.9	685.1	680.4	572.8	429.4	357.7	304.6	198.3	118.6





TEST NUMBER: P934360

CATALOG NUMBER: SQ4-FA-050U-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°	706.9	735.8	706.9	678.0	670.7	560.6	413.9	340.5	293.1	198.3	127.3
115°	688.1	728.2	688.1	648.0	638.0	531.9	390.5	319.8	279.9	200.1	140.3
117.5°	648.4	692.9	648.4	603.8	592.7	497.0	369.5	305.7	271.7	203.9	153.0
120°	616.3	659.5	616.3	573.2	562.4	474.9	358.3	300.0	269.0	206.9	160.4
122.5°	585.2	627.8	585.2	542.5	531.9	453.2	348.1	295.6	267.5	211.3	169.1
125°	540.6	579.9	540.6	501.4	491.6	424.7	335.5	290.9	266.3	217.1	180.2
127.5°	500.6	533.7	500.6	467.5	459.2	401.8	325.2	287.0	265.7	223.0	191.1
130°	477.1	507.7	477.1	446.5	438.8	387.7	319.5	285.4	266.0	227.3	198.2
132.5°	455.6	483.1	455.6	428.3	421.4	375.6	314.6	284.1	266.3	230.8	204.1
135°	426.4	449.9	426.4	402.7	396.8	358.5	307.3	281.8	266.0	234.6	210.9
137.5°	402.8	422.1	402.8	383.5	378.6	346.2	303.0	281.5	267.7	240.3	219.6
140°	386.7	404.8	386.7	368.6	364.1	336.2	298.8	280.1	268.0	243.6	225.5
142.5°	373.3	388.9	373.3	357.7	353.9	329.3	296.5	280.1	268.9	246.6	229.8
145°	353.3	365.1	353.3	341.5	338.5	318.4	291.6	278.2	269.0	250.3	236.4
147.5°	337.9	347.6	337.9	328.2	325.7	309.9	288.8	278.2	270.8	255.9	244.7
150°	328.3	336.2	328.3	320.4	318.3	305.0	287.1	278.2	271.7	258.8	249.1
152.5°	319.9	325.9	319.9	313.9	312.5	301.1	285.9	278.2	272.4	260.7	251.9
155°	310.5	314.4	310.5	306.5	305.5	296.4	284.3	278.2	273.7	264.8	258.1
157.5°	302.9	305.7	302.9	300.2	299.4	292.4	282.9	278.2	275.1	269.0	264.4
160°	298.4	300.0	298.4	296.8	296.4	290.4	282.3	278.2	275.8	270.9	267.2
162.5°	295.5	297.0	295.5	293.9	293.6	288.4	281.6	278.2	276.5	272.9	270.3
165°	291.2	292.8	291.2	289.5	289.2	285.5	280.6	278.2	277.4	275.9	274.7
167.5°	288.2	288.8	288.2	287.5	287.3	284.9	281.7	280.1	279.4	278.1	277.1
170°	287.3	287.3	287.3	287.3	287.3	284.9	281.7	280.1	280.1	280.0	279.9
172.5°	285.0	284.5	285.0	285.6	285.8	283.8	281.4	280.1	280.1	280.1	280.1
175°	283.8	283.8	283.8	283.8	283.8	282.6	280.9	280.1	280.4	281.3	281.8
177.5°	282.6	281.8	282.6	283.2	283.4	282.5	281.2	280.5	280.8	281.4	281.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P934360

CATALOG NUMBER: SQ4-FA-050U-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°	5.0	3.4	1.9	3.4	5.0	5.3	8.4	12.4	14.4	12.8	9.5
92.5°	33.3	20.4	7.5	20.4	33.3	36.5	51.3	71.0	80.9	70.9	50.9
95°	65.2	41.7	18.2	41.7	65.2	71.1	126.3	199.8	236.6	211.1	160.1
97.5°	72.9	52.1	31.4	52.1	72.9	78.1	170.0	292.7	354.0	338.0	305.8
100°	79.3	60.4	41.6	60.4	79.3	84.0	186.0	322.1	390.2	391.4	393.8
102.5°	85.4	67.9	50.3	67.9	85.4	89.8	193.4	331.4	400.4	420.9	462.0
105°	94.8	79.9	65.1	79.9	94.8	98.6	198.8	332.5	399.3	445.3	537.2
107.5°	107.9	94.1	80.2	94.1	107.9	111.4	199.8	317.7	376.6	440.8	569.1
110°	115.4	102.9	90.4	102.9	115.4	118.6	198.3	304.6	357.7	429.4	572.8



TEST NUMBER: P934360

CATALOG NUMBER: SQ4-FA-050U-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°	124.3	112.3	100.4	112.3	124.3	127.3	198.3	293.1	340.5	413.9	560.6
115°	137.6	126.6	115.5	126.6	137.6	140.3	200.1	279.9	319.8	390.5	531.9
117.5°	150.5	140.5	130.5	140.5	150.5	153.0	203.9	271.7	305.7	369.5	497.0
120°	158.0	148.7	139.2	148.7	158.0	160.4	206.9	269.0	300.0	358.3	474.9
122.5°	166.7	157.3	147.7	157.3	166.7	169.1	211.3	267.5	295.6	348.1	453.2
125°	178.0	169.4	160.8	169.4	178.0	180.2	217.1	266.3	290.9	335.5	424.7
127.5°	188.9	180.1	171.3	180.1	188.9	191.1	223.0	265.7	287.0	325.2	401.8
130°	195.8	186.5	177.0	186.5	195.8	198.2	227.3	266.0	285.4	319.5	387.7
132.5°	201.7	192.3	182.9	192.3	201.7	204.1	230.8	266.3	284.1	314.6	375.6
135°	208.8	200.1	191.6	200.1	208.8	210.9	234.6	266.0	281.8	307.3	358.5
137.5°	217.5	209.0	200.5	209.0	217.5	219.6	240.3	267.7	281.5	303.0	346.2
140°	223.6	215.7	207.9	215.7	223.6	225.5	243.6	268.0	280.1	298.8	336.2
142.5°	228.0	220.8	213.5	220.8	228.0	229.8	246.6	268.9	280.1	296.5	329.3
145°	234.8	228.5	222.3	228.5	234.8	236.4	250.3	269.0	278.2	291.6	318.4
147.5°	243.2	237.1	231.0	237.1	243.2	244.7	255.9	270.8	278.2	288.8	309.9
150°	247.7	242.1	236.6	242.1	247.7	249.1	258.8	271.7	278.2	287.1	305.0
152.5°	250.9	246.7	242.5	246.7	250.9	251.9	260.7	272.4	278.2	285.9	301.1
155°	257.4	254.3	251.2	254.3	257.4	258.1	264.8	273.7	278.2	284.3	296.4
157.5°	263.7	260.6	257.6	260.6	263.7	264.4	269.0	275.1	278.2	282.9	292.4
160°	266.7	264.3	262.0	264.3	266.7	267.2	270.9	275.8	278.2	282.3	290.4
162.5°	269.8	268.1	266.3	268.1	269.8	270.3	272.9	276.5	278.2	281.6	288.4
165°	274.3	272.6	271.1	272.6	274.3	274.7	275.9	277.4	278.2	280.6	285.5
167.5°	276.9	276.1	275.4	276.1	276.9	277.1	278.1	279.4	280.1	281.7	284.9
170°	279.7	279.0	278.2	279.0	279.7	279.9	280.0	280.1	280.1	281.7	284.9
172.5°	280.1	279.9	279.7	279.9	280.1	280.1	280.1	280.1	280.1	281.4	283.8
175°	281.8	281.8	281.8	281.8	281.8	281.8	281.3	280.4	280.1	280.9	282.6
177.5°	281.8	281.8	281.8	281.8	281.8	281.8	281.4	280.8	280.5	281.2	282.5
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P934360

CATALOG NUMBER: SQ4-FA-050U-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°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	9.5	12.8	14.4	12.4
92.5°	36.0	34.5	28.8	23.0	28.8	34.5	36.0	50.9	70.9	80.9	71.0
95°	122.0	117.6	100.3	83.1	100.3	117.6	122.0	160.1	211.1	236.6	199.8
97.5°	281.6	273.4	240.4	207.5	240.4	273.4	281.6	305.8	338.0	354.0	292.7
100°	395.5	385.7	346.4	307.2	346.4	385.7	395.5	393.8	391.4	390.2	322.1
102.5°	492.7	484.3	450.7	417.1	450.7	484.3	492.7	462.0	420.9	400.4	331.4
105°	606.2	601.7	583.7	565.6	583.7	601.7	606.2	537.2	445.3	399.3	332.5
107.5°	665.2	666.3	670.7	675.1	670.7	666.3	665.2	569.1	440.8	376.6	317.7
110°	680.4	685.1	703.9	722.7	703.9	685.1	680.4	572.8	429.4	357.7	304.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	670.7	678.0	706.9	735.8	706.9	678.0	670.7	560.6	413.9	340.5	293.1
115°	638.0	648.0	688.1	728.2	688.1	648.0	638.0	531.9	390.5	319.8	279.9
117.5°	592.7	603.8	648.4	692.9	648.4	603.8	592.7	497.0	369.5	305.7	271.7
120°	562.4	573.2	616.3	659.5	616.3	573.2	562.4	474.9	358.3	300.0	269.0
122.5°	531.9	542.5	585.2	627.8	585.2	542.5	531.9	453.2	348.1	295.6	267.5
125°	491.6	501.4	540.6	579.9	540.6	501.4	491.6	424.7	335.5	290.9	266.3
127.5°	459.2	467.5	500.6	533.7	500.6	467.5	459.2	401.8	325.2	287.0	265.7
130°	438.8	446.5	477.1	507.7	477.1	446.5	438.8	387.7	319.5	285.4	266.0
132.5°	421.4	428.3	455.6	483.1	455.6	428.3	421.4	375.6	314.6	284.1	266.3
135°	396.8	402.7	426.4	449.9	426.4	402.7	396.8	358.5	307.3	281.8	266.0
137.5°	378.6	383.5	402.8	422.1	402.8	383.5	378.6	346.2	303.0	281.5	267.7
140°	364.1	368.6	386.7	404.8	386.7	368.6	364.1	336.2	298.8	280.1	268.0
142.5°	353.9	357.7	373.3	388.9	373.3	357.7	353.9	329.3	296.5	280.1	268.9
145°	338.5	341.5	353.3	365.1	353.3	341.5	338.5	318.4	291.6	278.2	269.0
147.5°	325.7	328.2	337.9	347.6	337.9	328.2	325.7	309.9	288.8	278.2	270.8
150°	318.3	320.4	328.3	336.2	328.3	320.4	318.3	305.0	287.1	278.2	271.7
152.5°	312.5	313.9	319.9	325.9	319.9	313.9	312.5	301.1	285.9	278.2	272.4
155°	305.5	306.5	310.5	314.4	310.5	306.5	305.5	296.4	284.3	278.2	273.7
157.5°	299.4	300.2	302.9	305.7	302.9	300.2	299.4	292.4	282.9	278.2	275.1
160°	296.4	296.8	298.4	300.0	298.4	296.8	296.4	290.4	282.3	278.2	275.8
162.5°	293.6	293.9	295.5	297.0	295.5	293.9	293.6	288.4	281.6	278.2	276.5
165°	289.2	289.5	291.2	292.8	291.2	289.5	289.2	285.5	280.6	278.2	277.4
167.5°	287.3	287.5	288.2	288.8	288.2	287.5	287.3	284.9	281.7	280.1	279.4
170°	287.3	287.3	287.3	287.3	287.3	287.3	287.3	284.9	281.7	280.1	280.1
172.5°	285.8	285.6	285.0	284.5	285.0	285.6	285.8	283.8	281.4	280.1	280.1
175°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	282.6	280.9	280.1	280.4
177.5°	283.4	283.2	282.6	281.8	282.6	283.2	283.4	282.5	281.2	280.5	280.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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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°	8.4	5.3	5.0	3.4	1.9
92.5°	51.3	36.5	33.3	20.4	7.5
95°	126.3	71.1	65.2	41.7	18.2
97.5°	170.0	78.1	72.9	52.1	31.4
100°	186.0	84.0	79.3	60.4	41.6
102.5°	193.4	89.8	85.4	67.9	50.3
105°	198.8	98.6	94.8	79.9	65.1
107.5°	199.8	111.4	107.9	94.1	80.2
110°	198.3	118.6	115.4	102.9	90.4



TEST NUMBER: P934360

CATALOG NUMBER: SQ4-FA-050U-075D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	198.3	127.3	124.3	112.3	100.4
115°	200.1	140.3	137.6	126.6	115.5
117.5°	203.9	153.0	150.5	140.5	130.5
120°	206.9	160.4	158.0	148.7	139.2
122.5°	211.3	169.1	166.7	157.3	147.7
125°	217.1	180.2	178.0	169.4	160.8
127.5°	223.0	191.1	188.9	180.1	171.3
130°	227.3	198.2	195.8	186.5	177.0
132.5°	230.8	204.1	201.7	192.3	182.9
135°	234.6	210.9	208.8	200.1	191.6
137.5°	240.3	219.6	217.5	209.0	200.5
140°	243.6	225.5	223.6	215.7	207.9
142.5°	246.6	229.8	228.0	220.8	213.5
145°	250.3	236.4	234.8	228.5	222.3
147.5°	255.9	244.7	243.2	237.1	231.0
150°	258.8	249.1	247.7	242.1	236.6
152.5°	260.7	251.9	250.9	246.7	242.5
155°	264.8	258.1	257.4	254.3	251.2
157.5°	269.0	264.4	263.7	260.6	257.6
160°	270.9	267.2	266.7	264.3	262.0
162.5°	272.9	270.3	269.8	268.1	266.3
165°	275.9	274.7	274.3	272.6	271.1
167.5°	278.1	277.1	276.9	276.1	275.4
170°	280.0	279.9	279.7	279.0	278.2
172.5°	280.1	280.1	280.1	279.9	279.7
175°	281.3	281.8	281.8	281.8	281.8
177.5°	281.4	281.8	281.8	281.8	281.8
180°	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P934360

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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	13.13	14.07	14.02	14.97	16.13	15.93	16.87	16.81	17.77	18.92
	3H	13.61	14.45	14.51	15.37	16.55	17.27	18.11	18.17	19.02	20.20
	4H	13.81	14.60	14.72	15.52	16.71	17.71	18.50	18.62	19.43	20.61
	6H	13.93	14.66	14.86	15.59	16.79	17.99	18.72	18.92	19.65	20.85
	8H	13.94	14.63	14.87	15.58	16.78	18.06	18.76	19.00	19.71	20.91
	12H	13.91	14.57	14.85	15.51	16.74	18.10	18.76	19.04	19.70	20.93
4H	2H	14.17	14.96	15.08	15.88	17.07	16.35	17.14	17.27	18.06	19.25
	3H	15.20	15.86	16.13	16.81	18.02	17.85	18.51	18.78	19.47	20.67
	4H	15.48	16.08	16.42	17.03	18.26	18.38	18.98	19.32	19.93	21.15
	6H	15.61	16.13	16.56	17.10	18.33	18.74	19.26	19.69	20.23	21.46
	8H	15.62	16.10	16.57	17.07	18.31	18.84	19.33	19.80	20.29	21.53
	12H	15.59	16.02	16.56	17.01	18.25	18.90	19.33	19.87	20.32	21.56
8H	4H	15.93	16.42	16.89	17.38	18.63	18.51	18.99	19.46	19.96	21.20
	6H	16.20	16.60	17.18	17.61	18.85	18.94	19.34	19.92	20.35	21.59
	8H	16.24	16.60	17.23	17.59	18.85	19.09	19.44	20.08	20.44	21.70
	12H	16.23	16.54	17.22	17.53	18.84	19.18	19.50	20.18	20.48	21.79
12H	4H	15.94	16.38	16.92	17.36	18.61	18.48	18.91	19.45	19.90	21.14
	6H	16.26	16.61	17.25	17.61	18.87	18.94	19.29	19.93	20.29	21.55
	8H	16.33	16.64	17.32	17.63	18.93	19.10	19.41	20.09	20.40	21.70