

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: P935159

Luminaire Tested: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935159
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

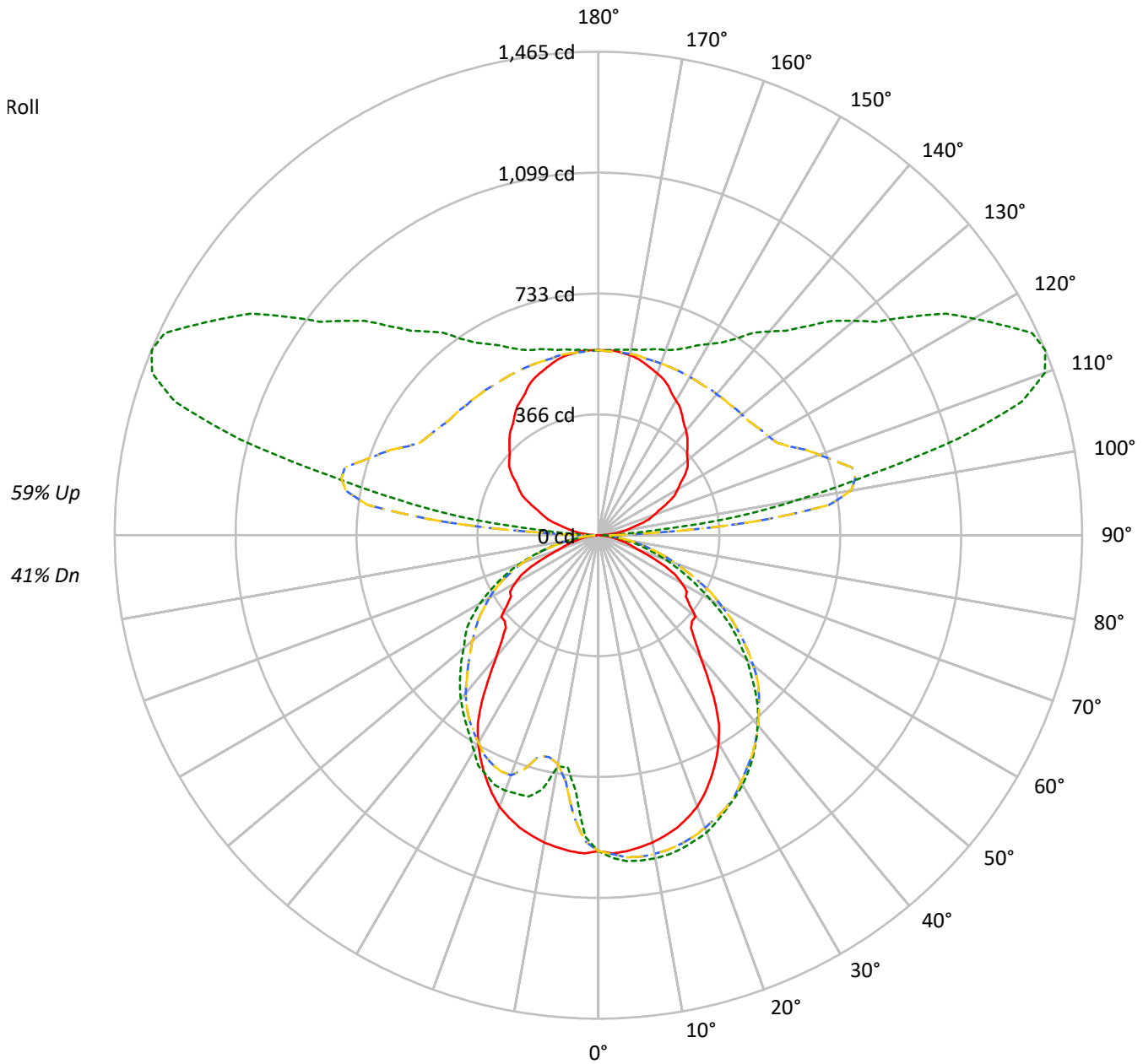
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6119.8 lumens
Efficiency: N/A
Efficacy: 124.4 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): 49.2
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: P935159
CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

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	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8878	8878	8878	8878
5°	8936	8963	8936	7047
10°	8866	8829	8866	6312
15°	8759	8638	8759	7213
20°	8566	8411	8566	7228
25°	8181	8080	8181	7075
30°	7687	7806	7687	6738
35°	6843	7459	6843	6369
40°	5692	7051	5692	6090
45°	5078	6572	5078	5769
50°	5382	6002	5382	5446
55°	5048	5387	5048	5261
60°	5185	4576	5185	4818
65°	4678	3782	4678	4229
70°	3217	3013	3217	3544
75°	2791	2228	2791	2668
80°	2204	1474	2204	1604
85°	1201	780	1201	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7796 cd/sqm



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.4
10°-20°	245.2	4.0
20°-30°	379.1	6.2
30°-40°	452.6	7.4
40°-50°	455.2	7.4
50°-60°	396.1	6.5
60°-70°	280.8	4.6
70°-80°	148.6	2.4
80°-90°	39.1	0.6
90°-100°	273.4	4.5
100°-110°	718.9	11.7
110°-120°	745.4	12.2
120°-130°	597.9	9.8
130°-140°	469.2	7.7
140°-150°	360.1	5.9
150°-160°	259.3	4.2
160°-170°	158.7	2.6
170°-180°	53.6	0.9
0°-30°	710.7	11.6
0°-40°	1163.3	19.0
0°-60°	2014.6	32.9
0°-90°	2483.2	40.6
90°-120°	1737.8	28.4
90°-150°	3165.0	51.7
90°-180°	3637.0	59.4
0°-180°	6119.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	957	957	957	957	957	
5°	961	991	961	779	961	91
15°	918	982	918	820	918	258
25°	808	916	808	802	808	371
35°	615	818	615	698	615	380
45°	397	674	397	591	397	318
55°	323	497	323	485	323	297
65°	224	300	224	335	224	215
75°	85	142	85	170	85	89
85°	14	36	14	31	14	20
90°	4	14	4	14	4	4
95°	36	165	36	165	36	40
105°	130	1126	130	1126	130	137
115°	230	1450	230	1450	230	227
125°	320	1154	320	1154	320	284
135°	381	896	381	896	381	295
145°	442	727	442	727	442	277
155°	500	626	500	626	500	230
165°	540	583	540	583	540	152
175°	561	565	561	565	561	53
180°	561	561	561	561	561	



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	965.0	965.0	970.5	972.3	972.3	969.6	966.9	969.6	977.8	980.5	979.6
5°	961.4	968.7	978.7	980.5	982.3	981.4	979.6	981.4	990.4	992.2	993.1
7.5°	954.1	967.8	980.5	983.2	985.9	983.2	982.3	984.1	993.1	995.0	995.0
10°	945.1	964.1	978.7	980.5	983.2	980.5	980.5	984.1	993.1	995.0	995.9
12.5°	932.4	958.7	972.3	974.1	977.8	976.8	975.9	979.6	988.6	990.4	990.4
15°	917.9	948.7	961.4	963.2	969.6	967.8	967.8	971.4	981.4	984.1	983.2
17.5°	898.0	936.0	950.5	953.2	957.8	956.8	957.8	961.4	970.5	972.3	973.2
20°	875.4	918.8	936.0	938.7	943.3	943.3	943.3	947.8	956.8	960.5	960.5
22.5°	844.6	900.7	918.8	920.6	926.1	926.1	927.9	934.2	942.4	943.3	943.3
25°	808.4	880.8	896.2	901.6	907.1	909.8	912.5	916.1	918.8	917.9	918.8
27.5°	770.4	855.5	875.4	879.0	886.2	889.0	892.6	893.5	894.4	897.1	895.3
30°	727.8	820.2	850.0	853.7	865.4	867.2	863.6	865.4	870.0	871.8	873.6
32.5°	679.9	767.7	823.8	831.9	842.8	837.4	836.5	839.2	846.4	846.4	848.2
35°	614.7	726.9	799.3	806.6	814.7	808.4	812.0	812.9	817.5	820.2	819.3
37.5°	543.2	691.6	774.0	779.4	785.8	777.6	783.1	785.8	789.4	787.6	787.6
40°	479.8	636.4	744.1	747.8	753.2	746.8	752.3	754.1	755.9	754.1	753.2
42.5°	432.8	575.8	712.5	717.0	713.4	717.9	719.7	723.3	720.6	717.0	717.0
45°	396.6	559.5	678.1	683.5	678.1	685.3	688.0	688.0	679.9	678.1	677.2
47.5°	384.8	526.9	643.7	643.7	640.9	650.0	654.5	648.2	640.0	637.3	637.3
50°	383.9	490.7	596.6	593.0	605.6	616.5	612.0	605.6	599.3	589.4	589.4
52.5°	348.6	446.3	535.9	549.5	569.4	575.8	568.5	562.2	551.3	546.8	543.2
55°	323.2	400.2	480.7	507.9	528.7	536.9	523.3	516.9	500.6	497.9	496.1
57.5°	317.7	333.2	430.0	464.4	489.8	488.9	480.7	469.0	455.4	452.7	451.8
60°	291.5	240.8	375.7	416.5	442.7	440.0	432.8	421.9	409.2	407.4	405.6
62.5°	264.3	174.7	314.1	360.3	397.5	396.6	390.2	373.9	364.9	360.3	356.7
65°	224.5	146.6	223.6	299.6	353.1	354.9	341.3	329.6	319.5	314.1	313.2
67.5°	171.1	119.5	151.2	249.8	310.5	308.7	291.5	286.0	273.4	270.6	265.2
70°	126.7	79.7	105.0	202.8	268.8	264.3	250.7	244.4	232.6	226.3	222.7
72.5°	105.0	64.3	76.9	157.5	226.3	220.9	209.1	201.9	191.9	186.5	182.8
75°	85.1	67.9	58.8	116.8	183.7	180.1	169.3	162.0	153.9	146.6	147.5
77.5°	62.5	63.4	47.1	86.0	145.7	140.3	134.0	124.9	121.3	114.1	114.1
80°	47.1	49.8	35.3	58.8	105.0	105.0	99.6	93.2	86.9	83.3	83.3
82.5°	31.7	31.7	26.2	37.1	71.5	68.8	65.2	63.4	59.7	57.9	57.9
85°	14.5	18.1	16.3	22.6	38.9	40.7	40.7	38.9	38.0	36.2	37.1
87.5°	4.5	8.1	10.0	12.7	19.9	20.8	21.7	21.7	21.7	22.6	22.6
90°	3.8	6.8	9.8	10.5	16.6	24.6	28.6	25.4	19.1	14.3	14.3
92.5°	15.0	40.6	66.3	72.7	102.2	141.5	161.1	141.2	101.4	71.5	68.7
95°	36.1	83.0	129.9	141.6	251.4	397.7	471.0	420.3	318.9	242.9	234.3
97.5°	62.5	103.8	145.2	155.5	338.6	582.7	704.8	672.7	608.6	560.6	544.2
100°	82.8	120.3	157.8	167.2	370.4	641.3	776.7	779.1	783.7	787.2	767.7
102.5°	100.1	135.1	170.1	178.9	385.0	659.7	797.1	837.9	919.6	980.7	964.0
105°	129.5	159.1	188.7	196.1	395.7	661.8	794.8	886.3	1069.4	1206.7	1197.7
107.5°	159.7	187.3	214.9	221.8	397.7	632.3	749.6	877.3	1132.6	1324.2	1326.3
110°	179.9	204.9	229.8	236.1	394.7	606.2	711.9	854.7	1140.1	1354.2	1363.6



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	200.0	223.7	247.4	253.4	394.8	583.4	677.7	823.8	1115.9	1335.0	1349.4
115°	230.0	251.9	273.8	279.3	398.5	557.3	636.7	777.4	1058.9	1269.9	1289.9
117.5°	259.8	279.7	299.6	304.6	405.9	540.9	608.4	735.4	989.4	1180.0	1202.1
120°	277.1	295.8	314.5	319.3	411.8	535.4	597.1	713.2	945.3	1119.3	1140.9
122.5°	294.1	313.0	331.9	336.6	420.5	532.5	588.4	692.9	901.9	1058.7	1079.9
125°	320.1	337.3	354.5	358.8	432.2	530.1	579.0	667.8	845.3	978.5	998.0
127.5°	341.1	358.4	375.9	380.3	443.9	528.7	571.2	647.4	799.8	914.1	930.6
130°	352.4	371.1	389.9	394.6	452.4	529.6	568.2	636.1	771.7	873.5	888.7
132.5°	364.1	382.8	401.5	406.2	459.3	530.1	565.5	626.2	747.7	838.8	852.5
135°	381.4	398.5	415.6	419.8	466.9	529.6	561.0	611.9	713.5	789.8	801.6
137.5°	399.1	416.0	432.8	437.1	478.1	532.9	560.2	603.2	689.2	753.7	763.3
140°	413.7	429.3	444.9	448.8	485.1	533.4	557.6	594.7	669.0	724.8	733.7
142.5°	425.1	439.5	453.8	457.5	490.9	535.3	557.6	590.2	655.4	704.4	712.2
145°	442.4	454.9	467.4	470.6	498.4	535.4	553.9	580.6	633.9	673.9	679.8
147.5°	459.7	472.0	484.1	487.2	509.4	539.0	553.9	574.9	616.9	648.4	653.3
150°	471.0	482.0	493.0	495.8	515.2	541.0	553.9	571.6	607.0	633.6	637.5
152.5°	482.6	491.0	499.4	501.5	518.9	542.2	553.9	569.0	599.2	621.9	624.9
155°	500.0	506.2	512.4	514.0	527.3	545.0	553.9	565.9	590.0	608.0	610.0
157.5°	512.8	518.8	524.8	526.4	535.5	547.7	553.9	563.2	581.9	596.0	597.3
160°	521.5	526.2	530.8	532.0	539.3	549.0	553.9	561.9	577.9	590.0	590.8
162.5°	530.1	533.6	537.1	538.0	543.3	550.3	553.9	560.7	574.1	584.3	585.0
165°	539.5	542.6	545.8	546.6	549.1	552.2	553.9	558.8	568.4	575.7	576.5
167.5°	548.2	549.7	551.2	551.6	553.6	556.2	557.6	560.7	567.1	571.9	572.2
170°	553.9	555.3	556.9	557.2	557.3	557.5	557.6	560.7	567.1	571.9	571.9
172.5°	556.9	557.2	557.5	557.6	557.6	557.6	557.6	560.1	565.1	568.9	568.6
175°	561.0	561.0	561.0	561.0	559.8	558.3	557.6	559.2	562.4	564.7	564.7
177.5°	561.0	561.0	561.0	561.0	560.1	558.9	558.3	559.6	562.1	564.0	563.6
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	981.4	978.7	981.4	979.6	980.5	977.8	969.6	966.9	969.6	972.3	972.3
5°	993.1	991.3	993.1	993.1	992.2	990.4	981.4	979.6	981.4	982.3	980.5
7.5°	996.8	994.0	996.8	995.0	995.0	993.1	984.1	982.3	983.2	985.9	983.2
10°	996.8	994.0	996.8	995.9	995.0	993.1	984.1	980.5	980.5	983.2	980.5
12.5°	992.2	990.4	992.2	990.4	990.4	988.6	979.6	975.9	976.8	977.8	974.1
15°	985.0	982.3	985.0	983.2	984.1	981.4	971.4	967.8	967.8	969.6	963.2
17.5°	974.1	970.5	974.1	973.2	972.3	970.5	961.4	957.8	956.8	957.8	953.2
20°	961.4	958.7	961.4	960.5	960.5	956.8	947.8	943.3	943.3	943.3	938.7
22.5°	941.5	938.7	941.5	943.3	943.3	942.4	934.2	927.9	926.1	926.1	920.6
25°	918.8	916.1	918.8	918.8	917.9	918.8	916.1	912.5	909.8	907.1	901.6
27.5°	897.1	895.3	897.1	895.3	897.1	894.4	893.5	892.6	889.0	886.2	879.0
30°	875.4	873.6	875.4	873.6	871.8	870.0	865.4	863.6	867.2	865.4	853.7
32.5°	848.2	846.4	848.2	848.2	846.4	846.4	839.2	836.5	837.4	842.8	831.9
35°	820.2	817.5	820.2	819.3	820.2	817.5	812.9	812.0	808.4	814.7	806.6
37.5°	787.6	784.9	787.6	787.6	787.6	789.4	785.8	783.1	777.6	785.8	779.4
40°	754.1	750.5	754.1	753.2	754.1	755.9	754.1	752.3	746.8	753.2	747.8
42.5°	716.1	715.2	716.1	717.0	717.0	720.6	723.3	719.7	717.9	713.4	717.0
45°	675.3	673.5	675.3	677.2	678.1	679.9	688.0	688.0	685.3	678.1	683.5
47.5°	631.9	627.4	631.9	637.3	637.3	640.0	648.2	654.5	650.0	640.9	643.7
50°	585.7	586.6	585.7	589.4	589.4	599.3	605.6	612.0	616.5	605.6	593.0
52.5°	540.5	539.6	540.5	543.2	546.8	551.3	562.2	568.5	575.8	569.4	549.5
55°	495.2	497.0	495.2	496.1	497.9	500.6	516.9	523.3	536.9	528.7	507.9
57.5°	450.0	447.2	450.0	451.8	452.7	455.4	469.0	480.7	488.9	489.8	464.4
60°	397.5	393.8	397.5	405.6	407.4	409.2	421.9	432.8	440.0	442.7	416.5
62.5°	351.3	345.0	351.3	356.7	360.3	364.9	373.9	390.2	396.6	397.5	360.3
65°	302.3	299.6	302.3	313.2	314.1	319.5	329.6	341.3	354.9	353.1	299.6
67.5°	258.0	258.0	258.0	265.2	270.6	273.4	286.0	291.5	308.7	310.5	249.8
70°	217.2	216.3	217.2	222.7	226.3	232.6	244.4	250.7	264.3	268.8	202.8
72.5°	178.3	177.4	178.3	182.8	186.5	191.9	201.9	209.1	220.9	226.3	157.5
75°	143.9	142.1	143.9	147.5	146.6	153.9	162.0	169.3	180.1	183.7	116.8
77.5°	110.4	110.4	110.4	114.1	114.1	121.3	124.9	134.0	140.3	145.7	86.0
80°	82.4	81.5	82.4	83.3	83.3	86.9	93.2	99.6	105.0	105.0	58.8
82.5°	57.9	56.1	57.9	57.9	57.9	59.7	63.4	65.2	68.8	71.5	37.1
85°	36.2	36.2	36.2	37.1	36.2	38.0	38.9	40.7	40.7	38.9	22.6
87.5°	23.5	22.6	23.5	22.6	22.6	21.7	21.7	21.7	20.8	19.9	12.7
90°	14.3	14.3	14.3	14.3	14.3	19.1	25.4	28.6	24.6	16.6	10.5
92.5°	57.3	45.9	57.3	68.7	71.5	101.4	141.2	161.1	141.5	102.2	72.7
95°	199.8	165.3	199.8	234.3	242.9	318.9	420.3	471.0	397.7	251.4	141.6
97.5°	478.6	413.0	478.6	544.2	560.6	608.6	672.7	704.8	582.7	338.6	155.5
100°	689.6	611.4	689.6	767.7	787.2	783.7	779.1	776.7	641.3	370.4	167.2
102.5°	897.1	830.2	897.1	964.0	980.7	919.6	837.9	797.1	659.7	385.0	178.9
105°	1161.7	1125.7	1161.7	1197.7	1206.7	1069.4	886.3	794.8	661.8	395.7	196.1
107.5°	1335.0	1343.7	1335.0	1326.3	1324.2	1132.6	877.3	749.6	632.3	397.7	221.8
110°	1401.1	1438.6	1401.1	1363.6	1354.2	1140.1	854.7	711.9	606.2	394.7	236.1



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1407.0	1464.6	1407.0	1349.4	1335.0	1115.9	823.8	677.7	583.4	394.8	253.4
115°	1369.7	1449.5	1369.7	1289.9	1269.9	1058.9	777.4	636.7	557.3	398.5	279.3
117.5°	1290.6	1379.1	1290.6	1202.1	1180.0	989.4	735.4	608.4	540.9	405.9	304.6
120°	1226.9	1312.8	1226.9	1140.9	1119.3	945.3	713.2	597.1	535.4	411.8	319.3
122.5°	1164.8	1249.6	1164.8	1079.9	1058.7	901.9	692.9	588.4	532.5	420.5	336.6
125°	1076.1	1154.4	1076.1	998.0	978.5	845.3	667.8	579.0	530.1	432.2	358.8
127.5°	996.6	1062.5	996.6	930.6	914.1	799.8	647.4	571.2	528.7	443.9	380.3
130°	949.6	1010.5	949.6	888.7	873.5	771.7	636.1	568.2	529.6	452.4	394.6
132.5°	907.0	961.6	907.0	852.5	838.8	747.7	626.2	565.5	530.1	459.3	406.2
135°	848.6	895.7	848.6	801.6	789.8	713.5	611.9	561.0	529.6	466.9	419.8
137.5°	801.9	840.4	801.9	763.3	753.7	689.2	603.2	560.2	532.9	478.1	437.1
140°	769.7	805.7	769.7	733.7	724.8	669.0	594.7	557.6	533.4	485.1	448.8
142.5°	743.1	774.1	743.1	712.2	704.4	655.4	590.2	557.6	535.3	490.9	457.5
145°	703.2	726.7	703.2	679.8	673.9	633.9	580.6	553.9	535.4	498.4	470.6
147.5°	672.6	692.0	672.6	653.3	648.4	616.9	574.9	553.9	539.0	509.4	487.2
150°	653.3	669.0	653.3	637.5	633.6	607.0	571.6	553.9	541.0	515.2	495.8
152.5°	636.8	648.7	636.8	624.9	621.9	599.2	569.0	553.9	542.2	518.9	501.5
155°	617.9	625.7	617.9	610.0	608.0	590.0	565.9	553.9	545.0	527.3	514.0
157.5°	602.9	608.4	602.9	597.3	596.0	581.9	563.2	553.9	547.7	535.5	526.4
160°	594.0	597.1	594.0	590.8	590.0	577.9	561.9	553.9	549.0	539.3	532.0
162.5°	588.1	591.1	588.1	585.0	584.3	574.1	560.7	553.9	550.3	543.3	538.0
165°	579.7	582.8	579.7	576.5	575.7	568.4	558.8	553.9	552.2	549.1	546.6
167.5°	573.5	574.9	573.5	572.2	571.9	567.1	560.7	557.6	556.2	553.6	551.6
170°	571.9	571.9	571.9	571.9	571.9	567.1	560.7	557.6	557.5	557.3	557.2
172.5°	567.4	566.3	567.4	568.6	568.9	565.1	560.1	557.6	557.6	557.6	557.6
175°	564.7	564.7	564.7	564.7	564.7	562.4	559.2	557.6	558.3	559.8	561.0
177.5°	562.4	561.0	562.4	563.6	564.0	562.1	559.6	558.3	558.9	560.1	561.0
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	970.5	965.0	965.0	955.9	952.3	949.6	945.1	931.5	927.9	924.3	929.7
5°	978.7	968.7	961.4	945.1	931.5	926.1	908.9	876.3	854.6	838.3	829.2
7.5°	980.5	967.8	954.1	928.8	896.2	881.7	829.2	769.5	753.2	738.7	729.7
10°	978.7	964.1	945.1	907.1	830.1	804.8	752.3	713.4	703.4	700.7	703.4
12.5°	972.3	958.7	932.4	869.0	761.3	744.1	713.4	690.7	688.9	693.4	717.9
15°	961.4	948.7	917.9	818.4	723.3	710.6	688.9	680.8	690.7	722.4	795.7
17.5°	950.5	936.0	898.0	768.6	694.3	685.3	669.9	686.2	742.3	784.9	809.3
20°	936.0	918.8	875.4	732.4	673.5	665.4	658.1	731.5	774.0	789.4	803.0
22.5°	918.8	900.7	844.6	707.0	651.8	645.5	650.0	756.8	774.0	784.9	796.6
25°	896.2	880.8	808.4	687.1	634.6	627.4	644.6	754.1	764.0	766.8	790.3
27.5°	875.4	855.5	770.4	669.0	613.8	611.1	649.1	742.3	749.6	752.3	777.6
30°	850.0	820.2	727.8	650.0	592.1	591.2	650.0	727.8	726.0	733.3	758.6
32.5°	823.8	767.7	679.9	626.5	571.2	570.3	643.7	706.1	704.3	714.3	733.3
35°	799.3	726.9	614.7	599.3	545.0	545.9	628.3	680.8	681.7	690.7	702.5
37.5°	774.0	691.6	543.2	569.4	519.7	519.7	607.5	657.2	655.4	658.1	674.4
40°	744.1	636.4	479.8	530.5	496.1	493.4	582.1	631.9	625.6	624.7	647.3
42.5°	712.5	575.8	432.8	478.9	469.0	465.3	551.3	601.1	589.4	592.1	621.0
45°	678.1	559.5	396.6	404.7	440.9	438.2	517.8	565.8	557.7	564.9	594.8
47.5°	643.7	526.9	384.8	335.9	411.0	410.1	480.7	531.4	526.9	534.1	565.8
50°	596.6	490.7	383.9	287.8	377.5	381.2	436.4	497.9	497.9	504.3	537.8
52.5°	535.9	446.3	348.6	260.7	338.6	349.5	397.5	469.0	470.8	477.1	507.0
55°	480.7	400.2	323.2	239.9	292.4	315.9	359.4	439.1	442.7	449.1	476.2
57.5°	430.0	333.2	317.7	215.4	249.8	272.5	325.9	410.1	411.9	417.4	443.6
60°	375.7	240.8	291.5	189.2	212.7	229.9	295.1	375.7	382.1	385.7	408.3
62.5°	314.1	174.7	264.3	171.1	194.6	198.2	269.7	343.1	351.3	354.0	367.6
65°	223.6	146.6	224.5	155.7	175.6	176.5	242.6	309.6	316.8	321.3	331.4
67.5°	151.2	119.5	171.1	141.2	161.1	162.0	216.3	270.6	280.6	284.2	290.6
70°	105.0	79.7	126.7	125.8	144.8	146.6	188.3	235.3	244.4	247.1	250.7
72.5°	76.9	64.3	105.0	113.1	127.6	129.4	159.3	195.5	204.6	207.3	209.1
75°	58.8	67.9	85.1	98.7	108.6	109.5	130.3	159.3	165.6	167.5	168.4
77.5°	47.1	63.4	62.5	79.7	88.7	86.9	102.3	123.1	128.5	128.5	128.5
80°	35.3	49.8	47.1	57.0	65.2	63.4	73.3	87.8	89.6	91.4	90.5
82.5°	26.2	31.7	31.7	36.2	43.4	41.6	48.9	57.0	57.0	57.0	58.8
85°	16.3	18.1	14.5	19.0	24.4	23.5	27.2	30.8	31.7	31.7	29.9
87.5°	10.0	8.1	4.5	7.2	10.9	10.9	12.7	13.6	12.7	12.7	12.7
90°	9.8	6.8	3.8	6.8	9.8	10.5	16.6	24.6	28.6	25.4	19.1
92.5°	66.3	40.6	15.0	40.6	66.3	72.7	102.2	141.5	161.1	141.2	101.4
95°	129.9	83.0	36.1	83.0	129.9	141.6	251.4	397.7	471.0	420.3	318.9
97.5°	145.2	103.8	62.5	103.8	145.2	155.5	338.6	582.7	704.8	672.7	608.6
100°	157.8	120.3	82.8	120.3	157.8	167.2	370.4	641.3	776.7	779.1	783.7
102.5°	170.1	135.1	100.1	135.1	170.1	178.9	385.0	659.7	797.1	837.9	919.6
105°	188.7	159.1	129.5	159.1	188.7	196.1	395.7	661.8	794.8	886.3	1069.4
107.5°	214.9	187.3	159.7	187.3	214.9	221.8	397.7	632.3	749.6	877.3	1132.6
110°	229.8	204.9	179.9	204.9	229.8	236.1	394.7	606.2	711.9	854.7	1140.1



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	247.4	223.7	200.0	223.7	247.4	253.4	394.8	583.4	677.7	823.8	1115.9
115°	273.8	251.9	230.0	251.9	273.8	279.3	398.5	557.3	636.7	777.4	1058.9
117.5°	299.6	279.7	259.8	279.7	299.6	304.6	405.9	540.9	608.4	735.4	989.4
120°	314.5	295.8	277.1	295.8	314.5	319.3	411.8	535.4	597.1	713.2	945.3
122.5°	331.9	313.0	294.1	313.0	331.9	336.6	420.5	532.5	588.4	692.9	901.9
125°	354.5	337.3	320.1	337.3	354.5	358.8	432.2	530.1	579.0	667.8	845.3
127.5°	375.9	358.4	341.1	358.4	375.9	380.3	443.9	528.7	571.2	647.4	799.8
130°	389.9	371.1	352.4	371.1	389.9	394.6	452.4	529.6	568.2	636.1	771.7
132.5°	401.5	382.8	364.1	382.8	401.5	406.2	459.3	530.1	565.5	626.2	747.7
135°	415.6	398.5	381.4	398.5	415.6	419.8	466.9	529.6	561.0	611.9	713.5
137.5°	432.8	416.0	399.1	416.0	432.8	437.1	478.1	532.9	560.2	603.2	689.2
140°	444.9	429.3	413.7	429.3	444.9	448.8	485.1	533.4	557.6	594.7	669.0
142.5°	453.8	439.5	425.1	439.5	453.8	457.5	490.9	535.3	557.6	590.2	655.4
145°	467.4	454.9	442.4	454.9	467.4	470.6	498.4	535.4	553.9	580.6	633.9
147.5°	484.1	472.0	459.7	472.0	484.1	487.2	509.4	539.0	553.9	574.9	616.9
150°	493.0	482.0	471.0	482.0	493.0	495.8	515.2	541.0	553.9	571.6	607.0
152.5°	499.4	491.0	482.6	491.0	499.4	501.5	518.9	542.2	553.9	569.0	599.2
155°	512.4	506.2	500.0	506.2	512.4	514.0	527.3	545.0	553.9	565.9	590.0
157.5°	524.8	518.8	512.8	518.8	524.8	526.4	535.5	547.7	553.9	563.2	581.9
160°	530.8	526.2	521.5	526.2	530.8	532.0	539.3	549.0	553.9	561.9	577.9
162.5°	537.1	533.6	530.1	533.6	537.1	538.0	543.3	550.3	553.9	560.7	574.1
165°	545.8	542.6	539.5	542.6	545.8	546.6	549.1	552.2	553.9	558.8	568.4
167.5°	551.2	549.7	548.2	549.7	551.2	551.6	553.6	556.2	557.6	560.7	567.1
170°	556.9	555.3	553.9	555.3	556.9	557.2	557.3	557.5	557.6	560.7	567.1
172.5°	557.5	557.2	556.9	557.2	557.5	557.6	557.6	557.6	557.6	560.1	565.1
175°	561.0	561.0	561.0	561.0	561.0	561.0	559.8	558.3	557.6	559.2	562.4
177.5°	561.0	561.0	561.0	561.0	561.0	561.0	560.1	558.9	558.3	559.6	562.1
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8	956.8
2.5°	923.4	920.6	924.3	914.3	924.3	920.6	923.4	929.7	924.3	927.9	931.5
5°	810.2	805.7	791.2	779.4	791.2	805.7	810.2	829.2	838.3	854.6	876.3
7.5°	724.2	720.6	717.0	709.7	717.0	720.6	724.2	729.7	738.7	753.2	769.5
10°	705.2	706.1	711.5	710.6	711.5	706.1	705.2	703.4	700.7	703.4	713.4
12.5°	754.1	762.2	792.1	790.3	792.1	762.2	754.1	717.9	693.4	688.9	690.7
15°	810.2	812.9	819.3	820.2	819.3	812.9	810.2	795.7	722.4	690.7	680.8
17.5°	815.6	816.5	821.1	821.1	821.1	816.5	815.6	809.3	784.9	742.3	686.2
20°	811.1	812.9	822.0	823.8	822.0	812.9	811.1	803.0	789.4	774.0	731.5
22.5°	809.3	812.9	820.2	819.3	820.2	812.9	809.3	796.6	784.9	774.0	756.8
25°	800.3	800.3	801.2	802.1	801.2	800.3	800.3	790.3	766.8	764.0	754.1
27.5°	781.2	783.1	788.5	787.6	788.5	783.1	781.2	777.6	752.3	749.6	742.3
30°	764.0	762.2	757.7	754.1	757.7	762.2	764.0	758.6	733.3	726.0	727.8
32.5°	735.1	730.6	726.0	723.3	726.0	730.6	735.1	733.3	714.3	704.3	706.1
35°	700.7	701.6	700.7	698.0	700.7	701.6	700.7	702.5	690.7	681.7	680.8
37.5°	676.2	678.1	677.2	673.5	677.2	678.1	676.2	674.4	658.1	655.4	657.2
40°	650.9	651.8	650.9	648.2	650.9	651.8	650.9	647.3	624.7	625.6	631.9
42.5°	626.5	625.6	622.8	621.0	622.8	625.6	626.5	621.0	592.1	589.4	601.1
45°	598.4	599.3	593.9	591.2	593.9	599.3	598.4	594.8	564.9	557.7	565.8
47.5°	570.3	570.3	565.8	563.1	565.8	570.3	570.3	565.8	534.1	526.9	531.4
50°	540.5	539.6	533.2	532.3	533.2	539.6	540.5	537.8	504.3	497.9	497.9
52.5°	506.1	506.1	507.0	508.8	507.0	506.1	506.1	507.0	477.1	470.8	469.0
55°	476.2	477.1	483.4	485.3	483.4	477.1	476.2	476.2	449.1	442.7	439.1
57.5°	445.4	445.4	450.0	450.0	450.0	445.4	445.4	443.6	417.4	411.9	410.1
60°	410.1	411.9	415.6	414.7	415.6	411.9	410.1	408.3	385.7	382.1	375.7
62.5°	373.0	374.8	375.7	373.9	375.7	374.8	373.0	367.6	354.0	351.3	343.1
65°	334.1	335.9	336.8	335.0	336.8	335.9	334.1	331.4	321.3	316.8	309.6
67.5°	294.2	293.3	292.4	296.0	292.4	293.3	294.2	290.6	284.2	280.6	270.6
70°	253.4	253.4	252.5	254.4	252.5	253.4	253.4	250.7	247.1	244.4	235.3
72.5°	210.0	209.1	212.7	210.0	212.7	209.1	210.0	209.1	207.3	204.6	195.5
75°	167.5	169.3	167.5	170.2	167.5	169.3	167.5	168.4	167.5	165.6	159.3
77.5°	127.6	129.4	127.6	127.6	127.6	129.4	127.6	128.5	128.5	128.5	123.1
80°	90.5	89.6	89.6	88.7	89.6	89.6	90.5	90.5	91.4	89.6	87.8
82.5°	57.9	57.0	57.0	58.8	57.0	57.0	57.9	58.8	57.0	57.0	57.0
85°	31.7	32.6	30.8	30.8	30.8	32.6	31.7	29.9	31.7	31.7	30.8
87.5°	11.8	10.9	10.9	10.9	10.9	10.9	11.8	12.7	12.7	12.7	13.6
90°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	19.1	25.4	28.6	24.6
92.5°	71.5	68.7	57.3	45.9	57.3	68.7	71.5	101.4	141.2	161.1	141.5
95°	242.9	234.3	199.8	165.3	199.8	234.3	242.9	318.9	420.3	471.0	397.7
97.5°	560.6	544.2	478.6	413.0	478.6	544.2	560.6	608.6	672.7	704.8	582.7
100°	787.2	767.7	689.6	611.4	689.6	767.7	787.2	783.7	779.1	776.7	641.3
102.5°	980.7	964.0	897.1	830.2	897.1	964.0	980.7	919.6	837.9	797.1	659.7
105°	1206.7	1197.7	1161.7	1125.7	1161.7	1197.7	1206.7	1069.4	886.3	794.8	661.8
107.5°	1324.2	1326.3	1335.0	1343.7	1335.0	1326.3	1324.2	1132.6	877.3	749.6	632.3
110°	1354.2	1363.6	1401.1	1438.6	1401.1	1363.6	1354.2	1140.1	854.7	711.9	606.2



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1335.0	1349.4	1407.0	1464.6	1407.0	1349.4	1335.0	1115.9	823.8	677.7	583.4
115°	1269.9	1289.9	1369.7	1449.5	1369.7	1289.9	1269.9	1058.9	777.4	636.7	557.3
117.5°	1180.0	1202.1	1290.6	1379.1	1290.6	1202.1	1180.0	989.4	735.4	608.4	540.9
120°	1119.3	1140.9	1226.9	1312.8	1226.9	1140.9	1119.3	945.3	713.2	597.1	535.4
122.5°	1058.7	1079.9	1164.8	1249.6	1164.8	1079.9	1058.7	901.9	692.9	588.4	532.5
125°	978.5	998.0	1076.1	1154.4	1076.1	998.0	978.5	845.3	667.8	579.0	530.1
127.5°	914.1	930.6	996.6	1062.5	996.6	930.6	914.1	799.8	647.4	571.2	528.7
130°	873.5	888.7	949.6	1010.5	949.6	888.7	873.5	771.7	636.1	568.2	529.6
132.5°	838.8	852.5	907.0	961.6	907.0	852.5	838.8	747.7	626.2	565.5	530.1
135°	789.8	801.6	848.6	895.7	848.6	801.6	789.8	713.5	611.9	561.0	529.6
137.5°	753.7	763.3	801.9	840.4	801.9	763.3	753.7	689.2	603.2	560.2	532.9
140°	724.8	733.7	769.7	805.7	769.7	733.7	724.8	669.0	594.7	557.6	533.4
142.5°	704.4	712.2	743.1	774.1	743.1	712.2	704.4	655.4	590.2	557.6	535.3
145°	673.9	679.8	703.2	726.7	703.2	679.8	673.9	633.9	580.6	553.9	535.4
147.5°	648.4	653.3	672.6	692.0	672.6	653.3	648.4	616.9	574.9	553.9	539.0
150°	633.6	637.5	653.3	669.0	653.3	637.5	633.6	607.0	571.6	553.9	541.0
152.5°	621.9	624.9	636.8	648.7	636.8	624.9	621.9	599.2	569.0	553.9	542.2
155°	608.0	610.0	617.9	625.7	617.9	610.0	608.0	590.0	565.9	553.9	545.0
157.5°	596.0	597.3	602.9	608.4	602.9	597.3	596.0	581.9	563.2	553.9	547.7
160°	590.0	590.8	594.0	597.1	594.0	590.8	590.0	577.9	561.9	553.9	549.0
162.5°	584.3	585.0	588.1	591.1	588.1	585.0	584.3	574.1	560.7	553.9	550.3
165°	575.7	576.5	579.7	582.8	579.7	576.5	575.7	568.4	558.8	553.9	552.2
167.5°	571.9	572.2	573.5	574.9	573.5	572.2	571.9	567.1	560.7	557.6	556.2
170°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	567.1	560.7	557.6	557.5
172.5°	568.9	568.6	567.4	566.3	567.4	568.6	568.9	565.1	560.1	557.6	557.6
175°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	562.4	559.2	557.6	558.3
177.5°	564.0	563.6	562.4	561.0	562.4	563.6	564.0	562.1	559.6	558.3	558.9
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	956.8	956.8	956.8	956.8	956.8
2.5°	945.1	949.6	952.3	955.9	965.0
5°	908.9	926.1	931.5	945.1	961.4
7.5°	829.2	881.7	896.2	928.8	954.1
10°	752.3	804.8	830.1	907.1	945.1
12.5°	713.4	744.1	761.3	869.0	932.4
15°	688.9	710.6	723.3	818.4	917.9
17.5°	669.9	685.3	694.3	768.6	898.0
20°	658.1	665.4	673.5	732.4	875.4
22.5°	650.0	645.5	651.8	707.0	844.6
25°	644.6	627.4	634.6	687.1	808.4
27.5°	649.1	611.1	613.8	669.0	770.4
30°	650.0	591.2	592.1	650.0	727.8
32.5°	643.7	570.3	571.2	626.5	679.9
35°	628.3	545.9	545.0	599.3	614.7
37.5°	607.5	519.7	519.7	569.4	543.2
40°	582.1	493.4	496.1	530.5	479.8
42.5°	551.3	465.3	469.0	478.9	432.8
45°	517.8	438.2	440.9	404.7	396.6
47.5°	480.7	410.1	411.0	335.9	384.8
50°	436.4	381.2	377.5	287.8	383.9
52.5°	397.5	349.5	338.6	260.7	348.6
55°	359.4	315.9	292.4	239.9	323.2
57.5°	325.9	272.5	249.8	215.4	317.7
60°	295.1	229.9	212.7	189.2	291.5
62.5°	269.7	198.2	194.6	171.1	264.3
65°	242.6	176.5	175.6	155.7	224.5
67.5°	216.3	162.0	161.1	141.2	171.1
70°	188.3	146.6	144.8	125.8	126.7
72.5°	159.3	129.4	127.6	113.1	105.0
75°	130.3	109.5	108.6	98.7	85.1
77.5°	102.3	86.9	88.7	79.7	62.5
80°	73.3	63.4	65.2	57.0	47.1
82.5°	48.9	41.6	43.4	36.2	31.7
85°	27.2	23.5	24.4	19.0	14.5
87.5°	12.7	10.9	10.9	7.2	4.5
90°	16.6	10.5	9.8	6.8	3.8
92.5°	102.2	72.7	66.3	40.6	15.0
95°	251.4	141.6	129.9	83.0	36.1
97.5°	338.6	155.5	145.2	103.8	62.5
100°	370.4	167.2	157.8	120.3	82.8
102.5°	385.0	178.9	170.1	135.1	100.1
105°	395.7	196.1	188.7	159.1	129.5
107.5°	397.7	221.8	214.9	187.3	159.7
110°	394.7	236.1	229.8	204.9	179.9



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	394.8	253.4	247.4	223.7	200.0
115°	398.5	279.3	273.8	251.9	230.0
117.5°	405.9	304.6	299.6	279.7	259.8
120°	411.8	319.3	314.5	295.8	277.1
122.5°	420.5	336.6	331.9	313.0	294.1
125°	432.2	358.8	354.5	337.3	320.1
127.5°	443.9	380.3	375.9	358.4	341.1
130°	452.4	394.6	389.9	371.1	352.4
132.5°	459.3	406.2	401.5	382.8	364.1
135°	466.9	419.8	415.6	398.5	381.4
137.5°	478.1	437.1	432.8	416.0	399.1
140°	485.1	448.8	444.9	429.3	413.7
142.5°	490.9	457.5	453.8	439.5	425.1
145°	498.4	470.6	467.4	454.9	442.4
147.5°	509.4	487.2	484.1	472.0	459.7
150°	515.2	495.8	493.0	482.0	471.0
152.5°	518.9	501.5	499.4	491.0	482.6
155°	527.3	514.0	512.4	506.2	500.0
157.5°	535.5	526.4	524.8	518.8	512.8
160°	539.3	532.0	530.8	526.2	521.5
162.5°	543.3	538.0	537.1	533.6	530.1
165°	549.1	546.6	545.8	542.6	539.5
167.5°	553.6	551.6	551.2	549.7	548.2
170°	557.3	557.2	556.9	555.3	553.9
172.5°	557.6	557.6	557.5	557.2	556.9
175°	559.8	561.0	561.0	561.0	561.0
177.5°	560.1	561.0	561.0	561.0	561.0
180°	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935159

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-4000K

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	11.44	12.22	12.48	13.26	14.66	14.24	15.02	15.27	16.06	17.46
	3H	11.91	12.61	12.96	13.66	15.08	15.57	16.27	16.61	17.32	18.74
	4H	12.10	12.76	13.16	13.82	15.24	16.00	16.67	17.06	17.72	19.14
	6H	12.22	12.83	13.28	13.88	15.32	16.28	16.89	17.34	17.94	19.38
	8H	12.21	12.80	13.28	13.87	15.30	16.34	16.93	17.41	18.00	19.43
	12H	12.18	12.74	13.26	13.80	15.26	16.37	16.93	17.45	17.99	19.45
4H	2H	12.46	13.12	13.52	14.17	15.60	14.64	15.31	15.70	16.36	17.78
	3H	13.48	14.03	14.55	15.11	16.55	16.13	16.68	17.20	17.76	19.20
	4H	13.75	14.26	14.82	15.33	16.79	16.65	17.15	17.72	18.22	19.69
	6H	13.87	14.31	14.95	15.40	16.85	17.00	17.43	18.08	18.53	19.98
	8H	13.87	14.28	14.96	15.37	16.84	17.10	17.51	18.18	18.59	20.06
	12H	13.84	14.20	14.94	15.30	16.78	17.15	17.52	18.25	18.61	20.09
8H	4H	14.19	14.60	15.28	15.68	17.15	16.77	17.17	17.85	18.26	19.73
	6H	14.45	14.78	15.56	15.91	17.38	17.19	17.53	18.30	18.65	20.12
	8H	14.49	14.79	15.61	15.89	17.38	17.34	17.63	18.45	18.74	20.23
	12H	14.47	14.73	15.59	15.84	17.36	17.43	17.68	18.54	18.79	20.32
12H	4H	14.19	14.56	15.29	15.66	17.13	16.73	17.09	17.83	18.19	19.67
	6H	14.51	14.80	15.62	15.91	17.40	17.19	17.48	18.30	18.59	20.08
	8H	14.57	14.83	15.69	15.93	17.46	17.34	17.60	18.46	18.70	20.23