

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: P935157

Luminaire Tested: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935157
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-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

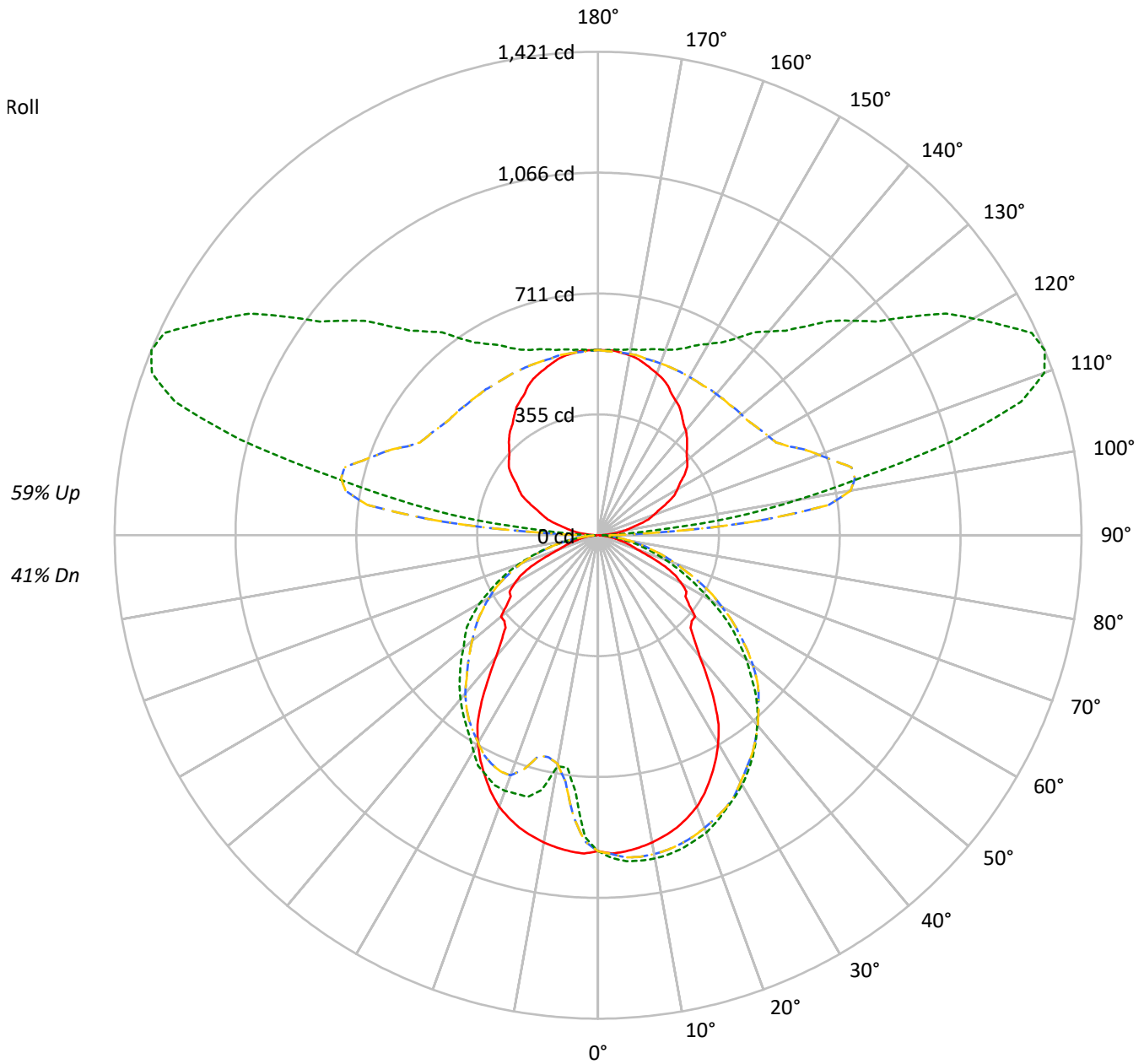
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5938.1 lumens
Efficiency: N/A
Efficacy: 120.7 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: General Diffuse

Input Watts (W): 49.2
Input Voltage (V): NR
Input Current (A_{in}): 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: P935157
CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



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



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

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°	8616	8616	8616	8616
5°	8670	8697	8670	6838
10°	8602	8568	8602	6125
15°	8500	8382	8500	6998
20°	8312	8161	8312	7013
25°	7939	7840	7939	6865
30°	7459	7574	7459	6538
35°	6641	7238	6641	6180
40°	5524	6841	5524	5909
45°	4926	6377	4926	5597
50°	5222	5824	5222	5284
55°	4898	5228	4898	5104
60°	5031	4440	5031	4674
65°	4539	3669	4539	4104
70°	3123	2924	3123	3438
75°	2709	2162	2709	2588
80°	2139	1428	2139	1557
85°	1168	756	1168	644

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7564 cd/sqm



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.4
10°-20°	238.0	4.0
20°-30°	367.8	6.2
30°-40°	439.1	7.4
40°-50°	441.7	7.4
50°-60°	384.4	6.5
60°-70°	272.5	4.6
70°-80°	144.2	2.4
80°-90°	38.0	0.6
90°-100°	265.3	4.5
100°-110°	697.6	11.7
110°-120°	723.3	12.2
120°-130°	580.2	9.8
130°-140°	455.2	7.7
140°-150°	349.4	5.9
150°-160°	251.6	4.2
160°-170°	154.0	2.6
170°-180°	52.0	0.9
0°-30°	689.6	11.6
0°-40°	1128.8	19.0
0°-60°	1954.8	32.9
0°-90°	2409.5	40.6
90°-120°	1686.2	28.4
90°-150°	3071.0	51.7
90°-180°	3529.0	59.4
0°-180°	5938.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	928	928	928	928	928	
5°	933	962	933	756	933	88
15°	891	953	891	796	891	251
25°	784	889	784	778	784	360
35°	596	793	596	677	596	369
45°	385	654	385	574	385	308
55°	314	482	314	471	314	288
65°	218	291	218	325	218	208
75°	83	138	83	165	83	87
85°	14	35	14	30	14	19
90°	4	14	4	14	4	4
95°	35	160	35	160	35	39
105°	126	1092	126	1092	126	133
115°	223	1406	223	1406	223	220
125°	311	1120	311	1120	311	276
135°	370	869	370	869	370	286
145°	429	705	429	705	429	269
155°	485	607	485	607	485	223
165°	524	566	524	566	524	148
175°	544	548	544	548	544	52
180°	544	544	544	544	544	



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	936.4	936.4	941.7	943.5	943.5	940.8	938.2	940.8	948.7	951.4	950.5
5°	932.8	940.0	949.6	951.4	953.1	952.3	950.5	952.3	961.0	962.8	963.7
7.5°	925.8	939.1	951.4	954.0	956.6	954.0	953.1	954.9	963.7	965.4	965.4
10°	917.0	935.5	949.6	951.4	954.0	951.4	951.4	954.9	963.7	965.4	966.3
12.5°	904.7	930.2	943.5	945.2	948.7	947.9	947.0	950.5	959.3	961.0	961.0
15°	890.7	920.5	932.8	934.6	940.8	939.1	939.1	942.6	952.3	954.9	954.0
17.5°	871.4	908.3	922.3	924.9	929.3	928.5	929.3	932.8	941.7	943.5	944.3
20°	849.4	891.6	908.3	910.9	915.3	915.3	915.3	919.7	928.5	932.0	932.0
22.5°	819.5	874.0	891.6	893.3	898.6	898.6	900.3	906.5	914.4	915.3	915.3
25°	784.4	854.7	869.6	874.9	880.1	882.8	885.4	888.9	891.6	890.7	891.6
27.5°	747.5	830.1	849.4	852.9	859.9	862.6	866.1	867.0	867.8	870.5	868.7
30°	706.2	795.8	824.8	828.3	839.7	841.5	838.0	839.7	844.1	845.9	847.6
32.5°	659.7	744.9	799.3	807.2	817.8	812.5	811.6	814.3	821.3	821.3	823.1
35°	596.5	705.4	775.6	782.7	790.6	784.4	787.9	788.8	793.2	795.8	795.0
37.5°	527.1	671.1	751.0	756.3	762.5	754.5	759.8	762.5	766.0	764.2	764.2
40°	465.6	617.5	722.1	725.6	730.8	724.7	730.0	731.7	733.5	731.7	730.8
42.5°	419.9	558.7	691.3	695.7	692.2	696.6	698.3	701.9	699.2	695.7	695.7
45°	384.8	542.9	657.9	663.2	657.9	665.0	667.6	667.6	659.7	657.9	657.1
47.5°	373.4	511.3	624.6	624.6	621.9	630.7	635.1	629.0	621.0	618.4	618.4
50°	372.5	476.1	578.9	575.4	587.7	598.2	593.8	587.7	581.5	571.9	571.9
52.5°	338.2	433.1	520.0	533.2	552.5	558.7	551.7	545.5	535.0	530.6	527.1
55°	313.6	388.3	466.5	492.8	513.0	520.9	507.7	501.6	485.8	483.2	481.4
57.5°	308.3	323.3	417.3	450.7	475.2	474.4	466.5	455.0	441.9	439.2	438.4
60°	282.8	233.6	364.6	404.1	429.6	426.9	419.9	409.4	397.1	395.3	393.6
62.5°	256.5	169.5	304.8	349.7	385.7	384.8	378.6	362.8	354.0	349.7	346.1
65°	217.8	142.3	216.9	290.7	342.6	344.4	331.2	319.8	310.0	304.8	303.9
67.5°	166.0	115.9	146.7	242.4	301.3	299.5	282.8	277.5	265.2	262.6	257.3
70°	123.0	77.3	101.9	196.7	260.9	256.5	243.3	237.1	225.7	219.6	216.1
72.5°	101.9	62.4	74.7	152.8	219.6	214.3	202.9	195.9	186.2	180.9	177.4
75°	82.6	65.9	57.1	113.3	178.3	174.8	164.2	157.2	149.3	142.3	143.2
77.5°	60.6	61.5	45.7	83.4	141.4	136.1	130.0	121.2	117.7	110.7	110.7
80°	45.7	48.3	34.3	57.1	101.9	101.9	96.6	90.5	84.3	80.8	80.8
82.5°	30.7	30.7	25.5	36.0	69.4	66.8	63.2	61.5	58.0	56.2	56.2
85°	14.1	17.6	15.8	22.0	37.8	39.5	39.5	37.8	36.9	35.1	36.0
87.5°	4.4	7.9	9.7	12.3	19.3	20.2	21.1	21.1	21.1	22.0	22.0
90°	3.7	6.6	9.5	10.2	16.1	23.9	27.8	24.7	18.5	13.9	13.9
92.5°	14.6	39.4	64.3	70.5	99.2	137.3	156.3	137.0	98.4	69.4	66.7
95°	35.0	80.5	126.0	137.4	243.9	385.9	457.0	407.8	309.4	235.6	227.3
97.5°	60.6	100.7	140.9	150.9	328.6	565.5	683.8	652.8	590.6	543.9	528.0
100°	80.4	116.7	153.1	162.2	359.4	622.3	753.7	756.0	760.4	763.9	744.9
102.5°	97.1	131.1	165.0	173.6	373.5	640.1	773.4	813.0	892.3	951.6	935.4
105°	125.7	154.4	183.1	190.3	384.0	642.1	771.2	860.0	1037.6	1170.9	1162.2
107.5°	154.9	181.7	208.5	215.2	385.9	613.5	727.3	851.2	1099.0	1284.9	1287.0
110°	174.6	198.8	223.0	229.1	382.9	588.2	690.8	829.3	1106.3	1314.0	1323.2



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	194.0	217.0	240.0	245.8	383.1	566.1	657.6	799.3	1082.8	1295.4	1309.4
115°	223.2	244.4	265.7	271.0	386.6	540.8	617.8	754.4	1027.4	1232.3	1251.6
117.5°	252.1	271.4	290.7	295.5	393.8	524.9	590.4	713.6	960.1	1145.0	1166.4
120°	268.8	287.0	305.2	309.8	399.6	519.5	579.4	692.0	917.2	1086.1	1107.0
122.5°	285.4	303.7	322.1	326.6	408.1	516.7	571.0	672.3	875.1	1027.3	1047.8
125°	310.6	327.3	343.9	348.2	419.4	514.3	561.8	648.0	820.2	949.4	968.4
127.5°	330.9	347.8	364.8	369.0	430.7	513.0	554.2	628.2	776.1	887.0	903.0
130°	341.9	360.1	378.3	382.9	439.0	513.9	551.3	617.2	748.8	847.6	862.3
132.5°	353.3	371.4	389.6	394.2	445.6	514.3	548.7	607.6	725.5	813.9	827.2
135°	370.1	386.6	403.2	407.4	453.0	513.9	544.4	593.7	692.4	766.4	777.8
137.5°	387.2	403.7	420.0	424.1	463.9	517.1	543.6	585.3	668.7	731.4	740.7
140°	401.5	416.6	431.7	435.5	470.7	517.6	541.0	577.0	649.2	703.3	712.0
142.5°	412.5	426.4	440.4	443.9	476.3	519.4	541.0	572.7	636.0	683.5	691.0
145°	429.2	441.4	453.6	456.6	483.6	519.5	537.4	563.3	615.1	653.9	659.6
147.5°	446.1	457.9	469.7	472.7	494.3	523.0	537.4	557.8	598.6	629.1	633.9
150°	457.0	467.7	478.4	481.1	499.9	525.0	537.4	554.6	589.0	614.8	618.6
152.5°	468.3	476.4	484.6	486.6	503.5	526.1	537.4	552.1	581.4	603.5	606.4
155°	485.2	491.1	497.2	498.7	511.6	528.8	537.4	549.1	572.5	590.0	591.9
157.5°	497.6	503.4	509.2	510.7	519.6	531.5	537.4	546.5	564.7	578.3	579.6
160°	506.0	510.6	515.0	516.2	523.3	532.7	537.4	545.2	560.8	572.5	573.3
162.5°	514.3	517.8	521.2	522.1	527.2	534.0	537.4	544.0	557.1	566.9	567.6
165°	523.5	526.5	529.6	530.4	532.8	535.9	537.4	542.2	551.6	558.6	559.4
167.5°	531.9	533.4	534.9	535.2	537.2	539.7	541.0	544.1	550.3	554.9	555.3
170°	537.4	538.8	540.3	540.7	540.8	540.9	541.0	544.1	550.3	554.9	554.9
172.5°	540.3	540.7	540.9	541.0	541.0	541.0	541.0	543.5	548.3	552.0	551.7
175°	544.4	544.4	544.4	544.4	543.2	541.7	541.0	542.6	545.7	548.0	548.0
177.5°	544.4	544.4	544.4	544.4	543.5	542.4	541.7	543.0	545.4	547.3	546.9
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	952.3	949.6	952.3	950.5	951.4	948.7	940.8	938.2	940.8	943.5	943.5
5°	963.7	961.9	963.7	963.7	962.8	961.0	952.3	950.5	952.3	953.1	951.4
7.5°	967.2	964.6	967.2	965.4	965.4	963.7	954.9	953.1	954.0	956.6	954.0
10°	967.2	964.6	967.2	966.3	965.4	963.7	954.9	951.4	951.4	954.0	951.4
12.5°	962.8	961.0	962.8	961.0	961.0	959.3	950.5	947.0	947.9	948.7	945.2
15°	955.8	953.1	955.8	954.0	954.9	952.3	942.6	939.1	939.1	940.8	934.6
17.5°	945.2	941.7	945.2	944.3	943.5	941.7	932.8	929.3	928.5	929.3	924.9
20°	932.8	930.2	932.8	932.0	932.0	928.5	919.7	915.3	915.3	915.3	910.9
22.5°	913.5	910.9	913.5	915.3	915.3	914.4	906.5	900.3	898.6	898.6	893.3
25°	891.6	888.9	891.6	891.6	890.7	891.6	888.9	885.4	882.8	880.1	874.9
27.5°	870.5	868.7	870.5	868.7	870.5	867.8	867.0	866.1	862.6	859.9	852.9
30°	849.4	847.6	849.4	847.6	845.9	844.1	839.7	838.0	841.5	839.7	828.3
32.5°	823.1	821.3	823.1	823.1	821.3	821.3	814.3	811.6	812.5	817.8	807.2
35°	795.8	793.2	795.8	795.0	795.8	793.2	788.8	787.9	784.4	790.6	782.7
37.5°	764.2	761.6	764.2	764.2	764.2	766.0	762.5	759.8	754.5	762.5	756.3
40°	731.7	728.2	731.7	730.8	731.7	733.5	731.7	730.0	724.7	730.8	725.6
42.5°	694.8	693.9	694.8	695.7	695.7	699.2	701.9	698.3	696.6	692.2	695.7
45°	655.3	653.5	655.3	657.1	657.9	659.7	667.6	667.6	665.0	657.9	663.2
47.5°	613.1	608.8	613.1	618.4	618.4	621.0	629.0	635.1	630.7	621.9	624.6
50°	568.3	569.2	568.3	571.9	571.9	581.5	587.7	593.8	598.2	587.7	575.4
52.5°	524.4	523.6	524.4	527.1	530.6	535.0	545.5	551.7	558.7	552.5	533.2
55°	480.5	482.3	480.5	481.4	483.2	485.8	501.6	507.7	520.9	513.0	492.8
57.5°	436.6	434.0	436.6	438.4	439.2	441.9	455.0	466.5	474.4	475.2	450.7
60°	385.7	382.1	385.7	393.6	395.3	397.1	409.4	419.9	426.9	429.6	404.1
62.5°	340.9	334.7	340.9	346.1	349.7	354.0	362.8	378.6	384.8	385.7	349.7
65°	293.4	290.7	293.4	303.9	304.8	310.0	319.8	331.2	344.4	342.6	290.7
67.5°	250.3	250.3	250.3	257.3	262.6	265.2	277.5	282.8	299.5	301.3	242.4
70°	210.8	209.9	210.8	216.1	219.6	225.7	237.1	243.3	256.5	260.9	196.7
72.5°	173.0	172.1	173.0	177.4	180.9	186.2	195.9	202.9	214.3	219.6	152.8
75°	139.6	137.9	139.6	143.2	142.3	149.3	157.2	164.2	174.8	178.3	113.3
77.5°	107.2	107.2	107.2	110.7	110.7	117.7	121.2	130.0	136.1	141.4	83.4
80°	79.9	79.0	79.9	80.8	80.8	84.3	90.5	96.6	101.9	101.9	57.1
82.5°	56.2	54.5	56.2	56.2	56.2	58.0	61.5	63.2	66.8	69.4	36.0
85°	35.1	35.1	35.1	36.0	35.1	36.9	37.8	39.5	39.5	37.8	22.0
87.5°	22.8	22.0	22.8	22.0	22.0	21.1	21.1	21.1	20.2	19.3	12.3
90°	13.9	13.9	13.9	13.9	13.9	18.5	24.7	27.8	23.9	16.1	10.2
92.5°	55.6	44.5	55.6	66.7	69.4	98.4	137.0	156.3	137.3	99.2	70.5
95°	193.8	160.4	193.8	227.3	235.6	309.4	407.8	457.0	385.9	243.9	137.4
97.5°	464.4	400.8	464.4	528.0	543.9	590.6	652.8	683.8	565.5	328.6	150.9
100°	669.1	593.3	669.1	744.9	763.9	760.4	756.0	753.7	622.3	359.4	162.2
102.5°	870.5	805.6	870.5	935.4	951.6	892.3	813.0	773.4	640.1	373.5	173.6
105°	1127.2	1092.3	1127.2	1162.2	1170.9	1037.6	860.0	771.2	642.1	384.0	190.3
107.5°	1295.4	1303.8	1295.4	1287.0	1284.9	1099.0	851.2	727.3	613.5	385.9	215.2
110°	1359.5	1395.9	1359.5	1323.2	1314.0	1106.3	829.3	690.8	588.2	382.9	229.1



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1365.2	1421.1	1365.2	1309.4	1295.4	1082.8	799.3	657.6	566.1	383.1	245.8
115°	1329.0	1406.5	1329.0	1251.6	1232.3	1027.4	754.4	617.8	540.8	386.6	271.0
117.5°	1252.3	1338.2	1252.3	1166.4	1145.0	960.1	713.6	590.4	524.9	393.8	295.5
120°	1190.4	1273.9	1190.4	1107.0	1086.1	917.2	692.0	579.4	519.5	399.6	309.8
122.5°	1130.2	1212.5	1130.2	1047.8	1027.3	875.1	672.3	571.0	516.7	408.1	326.6
125°	1044.2	1120.1	1044.2	968.4	949.4	820.2	648.0	561.8	514.3	419.4	348.2
127.5°	967.0	1030.9	967.0	903.0	887.0	776.1	628.2	554.2	513.0	430.7	369.0
130°	921.4	980.5	921.4	862.3	847.6	748.8	617.2	551.3	513.9	439.0	382.9
132.5°	880.1	933.0	880.1	827.2	813.9	725.5	607.6	548.7	514.3	445.6	394.2
135°	823.4	869.1	823.4	777.8	766.4	692.4	593.7	544.4	513.9	453.0	407.4
137.5°	778.1	815.4	778.1	740.7	731.4	668.7	585.3	543.6	517.1	463.9	424.1
140°	746.9	781.8	746.9	712.0	703.3	649.2	577.0	541.0	517.6	470.7	435.5
142.5°	721.1	751.1	721.1	691.0	683.5	636.0	572.7	541.0	519.4	476.3	443.9
145°	682.4	705.1	682.4	659.6	653.9	615.1	563.3	537.4	519.5	483.6	456.6
147.5°	652.7	671.5	652.7	633.9	629.1	598.6	557.8	537.4	523.0	494.3	472.7
150°	633.9	649.2	633.9	618.6	614.8	589.0	554.6	537.4	525.0	499.9	481.1
152.5°	617.9	629.5	617.9	606.4	603.5	581.4	552.1	537.4	526.1	503.5	486.6
155°	599.5	607.2	599.5	591.9	590.0	572.5	549.1	537.4	528.8	511.6	498.7
157.5°	585.0	590.4	585.0	579.6	578.3	564.7	546.5	537.4	531.5	519.6	510.7
160°	576.3	579.4	576.3	573.3	572.5	560.8	545.2	537.4	532.7	523.3	516.2
162.5°	570.6	573.5	570.6	567.6	566.9	557.1	544.0	537.4	534.0	527.2	522.1
165°	562.5	565.5	562.5	559.4	558.6	551.6	542.2	537.4	535.9	532.8	530.4
167.5°	556.5	557.8	556.5	555.3	554.9	550.3	544.1	541.0	539.7	537.2	535.2
170°	554.9	554.9	554.9	554.9	554.9	550.3	544.1	541.0	540.9	540.8	540.7
172.5°	550.6	549.5	550.6	551.7	552.0	548.3	543.5	541.0	541.0	541.0	541.0
175°	548.0	548.0	548.0	548.0	548.0	545.7	542.6	541.0	541.7	543.2	544.4
177.5°	545.7	544.4	545.7	546.9	547.3	545.4	543.0	541.7	542.4	543.5	544.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	941.7	936.4	936.4	927.6	924.1	921.4	917.0	903.9	900.3	896.8	902.1
5°	949.6	940.0	932.8	917.0	903.9	898.6	881.9	850.3	829.2	813.4	804.6
7.5°	951.4	939.1	925.8	901.2	869.6	855.6	804.6	746.6	730.8	716.8	708.0
10°	949.6	935.5	917.0	880.1	805.5	780.9	730.0	692.2	682.5	679.9	682.5
12.5°	943.5	930.2	904.7	843.3	738.7	722.1	692.2	670.2	668.5	672.9	696.6
15°	932.8	920.5	890.7	794.1	701.9	689.6	668.5	660.6	670.2	701.0	772.1
17.5°	922.3	908.3	871.4	745.8	673.7	665.0	650.0	665.8	720.3	761.6	785.3
20°	908.3	891.6	849.4	710.6	653.5	645.6	638.6	709.8	751.0	766.0	779.1
22.5°	891.6	874.0	819.5	686.0	632.5	626.3	630.7	734.3	751.0	761.6	773.0
25°	869.6	854.7	784.4	666.7	615.8	608.8	625.4	731.7	741.4	744.0	766.8
27.5°	849.4	830.1	747.5	649.2	595.6	592.9	629.8	720.3	727.3	730.0	754.5
30°	824.8	795.8	706.2	630.7	574.5	573.6	630.7	706.2	704.5	711.5	736.1
32.5°	799.3	744.9	659.7	607.9	554.3	553.4	624.6	685.2	683.4	693.1	711.5
35°	775.6	705.4	596.5	581.5	528.8	529.7	609.6	660.6	661.4	670.2	681.6
37.5°	751.0	671.1	527.1	552.5	504.2	504.2	589.4	637.7	636.0	638.6	654.4
40°	722.1	617.5	465.6	514.8	481.4	478.8	564.8	613.1	607.0	606.1	628.1
42.5°	691.3	558.7	419.9	464.7	455.0	451.5	535.0	583.3	571.9	574.5	602.6
45°	657.9	542.9	384.8	392.7	427.8	425.2	502.5	549.0	541.1	548.1	577.1
47.5°	624.6	511.3	373.4	325.9	398.8	398.0	466.5	515.7	511.3	518.3	549.0
50°	578.9	476.1	372.5	279.3	366.3	369.9	423.4	483.2	483.2	489.3	521.8
52.5°	520.0	433.1	338.2	253.0	328.6	339.1	385.7	455.0	456.8	463.0	491.9
55°	466.5	388.3	313.6	232.7	283.7	306.5	348.8	426.1	429.6	435.7	462.1
57.5°	417.3	323.3	308.3	209.0	242.4	264.4	316.3	398.0	399.7	405.0	430.5
60°	364.6	233.6	282.8	183.6	206.4	223.1	286.3	364.6	370.7	374.2	396.2
62.5°	304.8	169.5	256.5	166.0	188.8	192.3	261.7	333.0	340.9	343.5	356.7
65°	216.9	142.3	217.8	151.1	170.4	171.3	235.4	300.4	307.4	311.8	321.5
67.5°	146.7	115.9	166.0	137.0	156.3	157.2	209.9	262.6	272.3	275.8	281.9
70°	101.9	77.3	123.0	122.1	140.5	142.3	182.7	228.4	237.1	239.8	243.3
72.5°	74.7	62.4	101.9	109.8	123.8	125.6	154.6	189.7	198.5	201.1	202.9
75°	57.1	65.9	82.6	95.7	105.4	106.3	126.5	154.6	160.7	162.5	163.4
77.5°	45.7	61.5	60.6	77.3	86.1	84.3	99.2	119.4	124.7	124.7	124.7
80°	34.3	48.3	45.7	55.3	63.2	61.5	71.1	85.2	87.0	88.7	87.8
82.5°	25.5	30.7	30.7	35.1	42.2	40.4	47.4	55.3	55.3	55.3	57.1
85°	15.8	17.6	14.1	18.4	23.7	22.8	26.3	29.9	30.7	30.7	29.0
87.5°	9.7	7.9	4.4	7.0	10.5	10.5	12.3	13.2	12.3	12.3	12.3
90°	9.5	6.6	3.7	6.6	9.5	10.2	16.1	23.9	27.8	24.7	18.5
92.5°	64.3	39.4	14.6	39.4	64.3	70.5	99.2	137.3	156.3	137.0	98.4
95°	126.0	80.5	35.0	80.5	126.0	137.4	243.9	385.9	457.0	407.8	309.4
97.5°	140.9	100.7	60.6	100.7	140.9	150.9	328.6	565.5	683.8	652.8	590.6
100°	153.1	116.7	80.4	116.7	153.1	162.2	359.4	622.3	753.7	756.0	760.4
102.5°	165.0	131.1	97.1	131.1	165.0	173.6	373.5	640.1	773.4	813.0	892.3
105°	183.1	154.4	125.7	154.4	183.1	190.3	384.0	642.1	771.2	860.0	1037.6
107.5°	208.5	181.7	154.9	181.7	208.5	215.2	385.9	613.5	727.3	851.2	1099.0
110°	223.0	198.8	174.6	198.8	223.0	229.1	382.9	588.2	690.8	829.3	1106.3



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	240.0	217.0	194.0	217.0	240.0	245.8	383.1	566.1	657.6	799.3	1082.8
115°	265.7	244.4	223.2	244.4	265.7	271.0	386.6	540.8	617.8	754.4	1027.4
117.5°	290.7	271.4	252.1	271.4	290.7	295.5	393.8	524.9	590.4	713.6	960.1
120°	305.2	287.0	268.8	287.0	305.2	309.8	399.6	519.5	579.4	692.0	917.2
122.5°	322.1	303.7	285.4	303.7	322.1	326.6	408.1	516.7	571.0	672.3	875.1
125°	343.9	327.3	310.6	327.3	343.9	348.2	419.4	514.3	561.8	648.0	820.2
127.5°	364.8	347.8	330.9	347.8	364.8	369.0	430.7	513.0	554.2	628.2	776.1
130°	378.3	360.1	341.9	360.1	378.3	382.9	439.0	513.9	551.3	617.2	748.8
132.5°	389.6	371.4	353.3	371.4	389.6	394.2	445.6	514.3	548.7	607.6	725.5
135°	403.2	386.6	370.1	386.6	403.2	407.4	453.0	513.9	544.4	593.7	692.4
137.5°	420.0	403.7	387.2	403.7	420.0	424.1	463.9	517.1	543.6	585.3	668.7
140°	431.7	416.6	401.5	416.6	431.7	435.5	470.7	517.6	541.0	577.0	649.2
142.5°	440.4	426.4	412.5	426.4	440.4	443.9	476.3	519.4	541.0	572.7	636.0
145°	453.6	441.4	429.2	441.4	453.6	456.6	483.6	519.5	537.4	563.3	615.1
147.5°	469.7	457.9	446.1	457.9	469.7	472.7	494.3	523.0	537.4	557.8	598.6
150°	478.4	467.7	457.0	467.7	478.4	481.1	499.9	525.0	537.4	554.6	589.0
152.5°	484.6	476.4	468.3	476.4	484.6	486.6	503.5	526.1	537.4	552.1	581.4
155°	497.2	491.1	485.2	491.1	497.2	498.7	511.6	528.8	537.4	549.1	572.5
157.5°	509.2	503.4	497.6	503.4	509.2	510.7	519.6	531.5	537.4	546.5	564.7
160°	515.0	510.6	506.0	510.6	515.0	516.2	523.3	532.7	537.4	545.2	560.8
162.5°	521.2	517.8	514.3	517.8	521.2	522.1	527.2	534.0	537.4	544.0	557.1
165°	529.6	526.5	523.5	526.5	529.6	530.4	532.8	535.9	537.4	542.2	551.6
167.5°	534.9	533.4	531.9	533.4	534.9	535.2	537.2	539.7	541.0	544.1	550.3
170°	540.3	538.8	537.4	538.8	540.3	540.7	540.8	540.9	541.0	544.1	550.3
172.5°	540.9	540.7	540.3	540.7	540.9	541.0	541.0	541.0	541.0	543.5	548.3
175°	544.4	544.4	544.4	544.4	544.4	544.4	543.2	541.7	541.0	542.6	545.7
177.5°	544.4	544.4	544.4	544.4	544.4	544.4	543.5	542.4	541.7	543.0	545.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5	928.5
2.5°	896.0	893.3	896.8	887.2	896.8	893.3	896.0	902.1	896.8	900.3	903.9
5°	786.2	781.8	767.7	756.3	767.7	781.8	786.2	804.6	813.4	829.2	850.3
7.5°	702.7	699.2	695.7	688.7	695.7	699.2	702.7	708.0	716.8	730.8	746.6
10°	684.3	685.2	690.4	689.6	690.4	685.2	684.3	682.5	679.9	682.5	692.2
12.5°	731.7	739.6	768.6	766.8	768.6	739.6	731.7	696.6	672.9	668.5	670.2
15°	786.2	788.8	795.0	795.8	795.0	788.8	786.2	772.1	701.0	670.2	660.6
17.5°	791.4	792.3	796.7	796.7	796.7	792.3	791.4	785.3	761.6	720.3	665.8
20°	787.0	788.8	797.6	799.3	797.6	788.8	787.0	779.1	766.0	751.0	709.8
22.5°	785.3	788.8	795.8	795.0	795.8	788.8	785.3	773.0	761.6	751.0	734.3
25°	776.5	776.5	777.4	778.3	777.4	776.5	776.5	766.8	744.0	741.4	731.7
27.5°	758.1	759.8	765.1	764.2	765.1	759.8	758.1	754.5	730.0	727.3	720.3
30°	741.4	739.6	735.2	731.7	735.2	739.6	741.4	736.1	711.5	704.5	706.2
32.5°	713.3	708.9	704.5	701.9	704.5	708.9	713.3	711.5	693.1	683.4	685.2
35°	679.9	680.8	679.9	677.3	679.9	680.8	679.9	681.6	670.2	661.4	660.6
37.5°	656.2	657.9	657.1	653.5	657.1	657.9	656.2	654.4	638.6	636.0	637.7
40°	631.6	632.5	631.6	629.0	631.6	632.5	631.6	628.1	606.1	607.0	613.1
42.5°	607.9	607.0	604.4	602.6	604.4	607.0	607.9	602.6	574.5	571.9	583.3
45°	580.6	581.5	576.3	573.6	576.3	581.5	580.6	577.1	548.1	541.1	549.0
47.5°	553.4	553.4	549.0	546.4	549.0	553.4	553.4	549.0	518.3	511.3	515.7
50°	524.4	523.6	517.4	516.5	517.4	523.6	524.4	521.8	489.3	483.2	483.2
52.5°	491.1	491.1	491.9	493.7	491.9	491.1	491.1	491.9	463.0	456.8	455.0
55°	462.1	463.0	469.1	470.9	469.1	463.0	462.1	462.1	435.7	429.6	426.1
57.5°	432.2	432.2	436.6	436.6	436.6	432.2	432.2	430.5	405.0	399.7	398.0
60°	398.0	399.7	403.2	402.3	403.2	399.7	398.0	396.2	374.2	370.7	364.6
62.5°	361.9	363.7	364.6	362.8	364.6	363.7	361.9	356.7	343.5	340.9	333.0
65°	324.2	325.9	326.8	325.1	326.8	325.9	324.2	321.5	311.8	307.4	300.4
67.5°	285.4	284.6	283.7	287.2	283.7	284.6	285.4	281.9	275.8	272.3	262.6
70°	245.9	245.9	245.0	246.8	245.0	245.9	245.9	243.3	239.8	237.1	228.4
72.5°	203.8	202.9	206.4	203.8	206.4	202.9	203.8	202.9	201.1	198.5	189.7
75°	162.5	164.2	162.5	165.1	162.5	164.2	162.5	163.4	162.5	160.7	154.6
77.5°	123.8	125.6	123.8	123.8	123.8	125.6	123.8	124.7	124.7	124.7	119.4
80°	87.8	87.0	87.0	86.1	87.0	87.0	87.8	87.8	88.7	87.0	85.2
82.5°	56.2	55.3	55.3	57.1	55.3	55.3	56.2	57.1	55.3	55.3	55.3
85°	30.7	31.6	29.9	29.9	29.9	31.6	30.7	29.0	30.7	30.7	29.9
87.5°	11.4	10.5	10.5	10.5	10.5	10.5	11.4	12.3	12.3	12.3	13.2
90°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	18.5	24.7	27.8	23.9
92.5°	69.4	66.7	55.6	44.5	55.6	66.7	69.4	98.4	137.0	156.3	137.3
95°	235.6	227.3	193.8	160.4	193.8	227.3	235.6	309.4	407.8	457.0	385.9
97.5°	543.9	528.0	464.4	400.8	464.4	528.0	543.9	590.6	652.8	683.8	565.5
100°	763.9	744.9	669.1	593.3	669.1	744.9	763.9	760.4	756.0	753.7	622.3
102.5°	951.6	935.4	870.5	805.6	870.5	935.4	951.6	892.3	813.0	773.4	640.1
105°	1170.9	1162.2	1127.2	1092.3	1127.2	1162.2	1170.9	1037.6	860.0	771.2	642.1
107.5°	1284.9	1287.0	1295.4	1303.8	1295.4	1287.0	1284.9	1099.0	851.2	727.3	613.5
110°	1314.0	1323.2	1359.5	1395.9	1359.5	1323.2	1314.0	1106.3	829.3	690.8	588.2



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1295.4	1309.4	1365.2	1421.1	1365.2	1309.4	1295.4	1082.8	799.3	657.6	566.1
115°	1232.3	1251.6	1329.0	1406.5	1329.0	1251.6	1232.3	1027.4	754.4	617.8	540.8
117.5°	1145.0	1166.4	1252.3	1338.2	1252.3	1166.4	1145.0	960.1	713.6	590.4	524.9
120°	1086.1	1107.0	1190.4	1273.9	1190.4	1107.0	1086.1	917.2	692.0	579.4	519.5
122.5°	1027.3	1047.8	1130.2	1212.5	1130.2	1047.8	1027.3	875.1	672.3	571.0	516.7
125°	949.4	968.4	1044.2	1120.1	1044.2	968.4	949.4	820.2	648.0	561.8	514.3
127.5°	887.0	903.0	967.0	1030.9	967.0	903.0	887.0	776.1	628.2	554.2	513.0
130°	847.6	862.3	921.4	980.5	921.4	862.3	847.6	748.8	617.2	551.3	513.9
132.5°	813.9	827.2	880.1	933.0	880.1	827.2	813.9	725.5	607.6	548.7	514.3
135°	766.4	777.8	823.4	869.1	823.4	777.8	766.4	692.4	593.7	544.4	513.9
137.5°	731.4	740.7	778.1	815.4	778.1	740.7	731.4	668.7	585.3	543.6	517.1
140°	703.3	712.0	746.9	781.8	746.9	712.0	703.3	649.2	577.0	541.0	517.6
142.5°	683.5	691.0	721.1	751.1	721.1	691.0	683.5	636.0	572.7	541.0	519.4
145°	653.9	659.6	682.4	705.1	682.4	659.6	653.9	615.1	563.3	537.4	519.5
147.5°	629.1	633.9	652.7	671.5	652.7	633.9	629.1	598.6	557.8	537.4	523.0
150°	614.8	618.6	633.9	649.2	633.9	618.6	614.8	589.0	554.6	537.4	525.0
152.5°	603.5	606.4	617.9	629.5	617.9	606.4	603.5	581.4	552.1	537.4	526.1
155°	590.0	591.9	599.5	607.2	599.5	591.9	590.0	572.5	549.1	537.4	528.8
157.5°	578.3	579.6	585.0	590.4	585.0	579.6	578.3	564.7	546.5	537.4	531.5
160°	572.5	573.3	576.3	579.4	576.3	573.3	572.5	560.8	545.2	537.4	532.7
162.5°	566.9	567.6	570.6	573.5	570.6	567.6	566.9	557.1	544.0	537.4	534.0
165°	558.6	559.4	562.5	565.5	562.5	559.4	558.6	551.6	542.2	537.4	535.9
167.5°	554.9	555.3	556.5	557.8	556.5	555.3	554.9	550.3	544.1	541.0	539.7
170°	554.9	554.9	554.9	554.9	554.9	554.9	554.9	550.3	544.1	541.0	540.9
172.5°	552.0	551.7	550.6	549.5	550.6	551.7	552.0	548.3	543.5	541.0	541.0
175°	548.0	548.0	548.0	548.0	548.0	548.0	548.0	545.7	542.6	541.0	541.7
177.5°	547.3	546.9	545.7	544.4	545.7	546.9	547.3	545.4	543.0	541.7	542.4
180°	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4	544.4



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	928.5	928.5	928.5	928.5	928.5
2.5°	917.0	921.4	924.1	927.6	936.4
5°	881.9	898.6	903.9	917.0	932.8
7.5°	804.6	855.6	869.6	901.2	925.8
10°	730.0	780.9	805.5	880.1	917.0
12.5°	692.2	722.1	738.7	843.3	904.7
15°	668.5	689.6	701.9	794.1	890.7
17.5°	650.0	665.0	673.7	745.8	871.4
20°	638.6	645.6	653.5	710.6	849.4
22.5°	630.7	626.3	632.5	686.0	819.5
25°	625.4	608.8	615.8	666.7	784.4
27.5°	629.8	592.9	595.6	649.2	747.5
30°	630.7	573.6	574.5	630.7	706.2
32.5°	624.6	553.4	554.3	607.9	659.7
35°	609.6	529.7	528.8	581.5	596.5
37.5°	589.4	504.2	504.2	552.5	527.1
40°	564.8	478.8	481.4	514.8	465.6
42.5°	535.0	451.5	455.0	464.7	419.9
45°	502.5	425.2	427.8	392.7	384.8
47.5°	466.5	398.0	398.8	325.9	373.4
50°	423.4	369.9	366.3	279.3	372.5
52.5°	385.7	339.1	328.6	253.0	338.2
55°	348.8	306.5	283.7	232.7	313.6
57.5°	316.3	264.4	242.4	209.0	308.3
60°	286.3	223.1	206.4	183.6	282.8
62.5°	261.7	192.3	188.8	166.0	256.5
65°	235.4	171.3	170.4	151.1	217.8
67.5°	209.9	157.2	156.3	137.0	166.0
70°	182.7	142.3	140.5	122.1	123.0
72.5°	154.6	125.6	123.8	109.8	101.9
75°	126.5	106.3	105.4	95.7	82.6
77.5°	99.2	84.3	86.1	77.3	60.6
80°	71.1	61.5	63.2	55.3	45.7
82.5°	47.4	40.4	42.2	35.1	30.7
85°	26.3	22.8	23.7	18.4	14.1
87.5°	12.3	10.5	10.5	7.0	4.4
90°	16.1	10.2	9.5	6.6	3.7
92.5°	99.2	70.5	64.3	39.4	14.6
95°	243.9	137.4	126.0	80.5	35.0
97.5°	328.6	150.9	140.9	100.7	60.6
100°	359.4	162.2	153.1	116.7	80.4
102.5°	373.5	173.6	165.0	131.1	97.1
105°	384.0	190.3	183.1	154.4	125.7
107.5°	385.9	215.2	208.5	181.7	154.9
110°	382.9	229.1	223.0	198.8	174.6



TEST NUMBER: P935157

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	383.1	245.8	240.0	217.0	194.0
115°	386.6	271.0	265.7	244.4	223.2
117.5°	393.8	295.5	290.7	271.4	252.1
120°	399.6	309.8	305.2	287.0	268.8
122.5°	408.1	326.6	322.1	303.7	285.4
125°	419.4	348.2	343.9	327.3	310.6
127.5°	430.7	369.0	364.8	347.8	330.9
130°	439.0	382.9	378.3	360.1	341.9
132.5°	445.6	394.2	389.6	371.4	353.3
135°	453.0	407.4	403.2	386.6	370.1
137.5°	463.9	424.1	420.0	403.7	387.2
140°	470.7	435.5	431.7	416.6	401.5
142.5°	476.3	443.9	440.4	426.4	412.5
145°	483.6	456.6	453.6	441.4	429.2
147.5°	494.3	472.7	469.7	457.9	446.1
150°	499.9	481.1	478.4	467.7	457.0
152.5°	503.5	486.6	484.6	476.4	468.3
155°	511.6	498.7	497.2	491.1	485.2
157.5°	519.6	510.7	509.2	503.4	497.6
160°	523.3	516.2	515.0	510.6	506.0
162.5°	527.2	522.1	521.2	517.8	514.3
165°	532.8	530.4	529.6	526.5	523.5
167.5°	537.2	535.2	534.9	533.4	531.9
170°	540.8	540.7	540.3	538.8	537.4
172.5°	541.0	541.0	540.9	540.7	540.3
175°	543.2	544.4	544.4	544.4	544.4
177.5°	543.5	544.4	544.4	544.4	544.4
180°	544.4	544.4	544.4	544.4	544.4



TEST NUMBER: P935157
 CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-4-3000K

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	11.34	12.12	12.37	13.16	14.56	14.14	14.92	15.17	15.96	17.36
	3H	11.81	12.51	12.85	13.56	14.98	15.46	16.16	16.51	17.21	18.63
	4H	12.00	12.66	13.05	13.71	15.14	15.90	16.56	16.95	17.61	19.04
	6H	12.11	12.72	13.18	13.78	15.22	16.17	16.78	17.24	17.84	19.28
	8H	12.11	12.69	13.18	13.76	15.20	16.24	16.82	17.31	17.89	19.33
	12H	12.08	12.63	13.15	13.70	15.15	16.27	16.82	17.35	17.89	19.35
4H	2H	12.35	13.02	13.42	14.07	15.49	14.54	15.20	15.60	16.25	17.68
	3H	13.37	13.92	14.44	15.00	16.44	16.02	16.58	17.09	17.66	19.10
	4H	13.64	14.15	14.72	15.22	16.68	16.54	17.05	17.62	18.12	19.58
	6H	13.77	14.20	14.85	15.29	16.75	16.89	17.33	17.98	18.42	19.88
	8H	13.77	14.18	14.85	15.26	16.73	16.99	17.40	18.08	18.49	19.96
	12H	13.73	14.10	14.84	15.20	16.68	17.04	17.41	18.15	18.51	19.99
8H	4H	14.09	14.49	15.17	15.58	17.05	16.66	17.07	17.75	18.15	19.62
	6H	14.34	14.68	15.45	15.81	17.28	17.09	17.42	18.19	18.55	20.02
	8H	14.39	14.68	15.50	15.79	17.28	17.23	17.53	18.35	18.64	20.12
	12H	14.37	14.63	15.49	15.73	17.26	17.32	17.58	18.44	18.69	20.21
12H	4H	14.09	14.46	15.19	15.55	17.03	16.62	16.99	17.72	18.09	19.56
	6H	14.40	14.70	15.52	15.81	17.29	17.08	17.38	18.20	18.49	19.97
	8H	14.47	14.72	15.58	15.83	17.36	17.24	17.49	18.35	18.60	20.13