

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: P935034

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

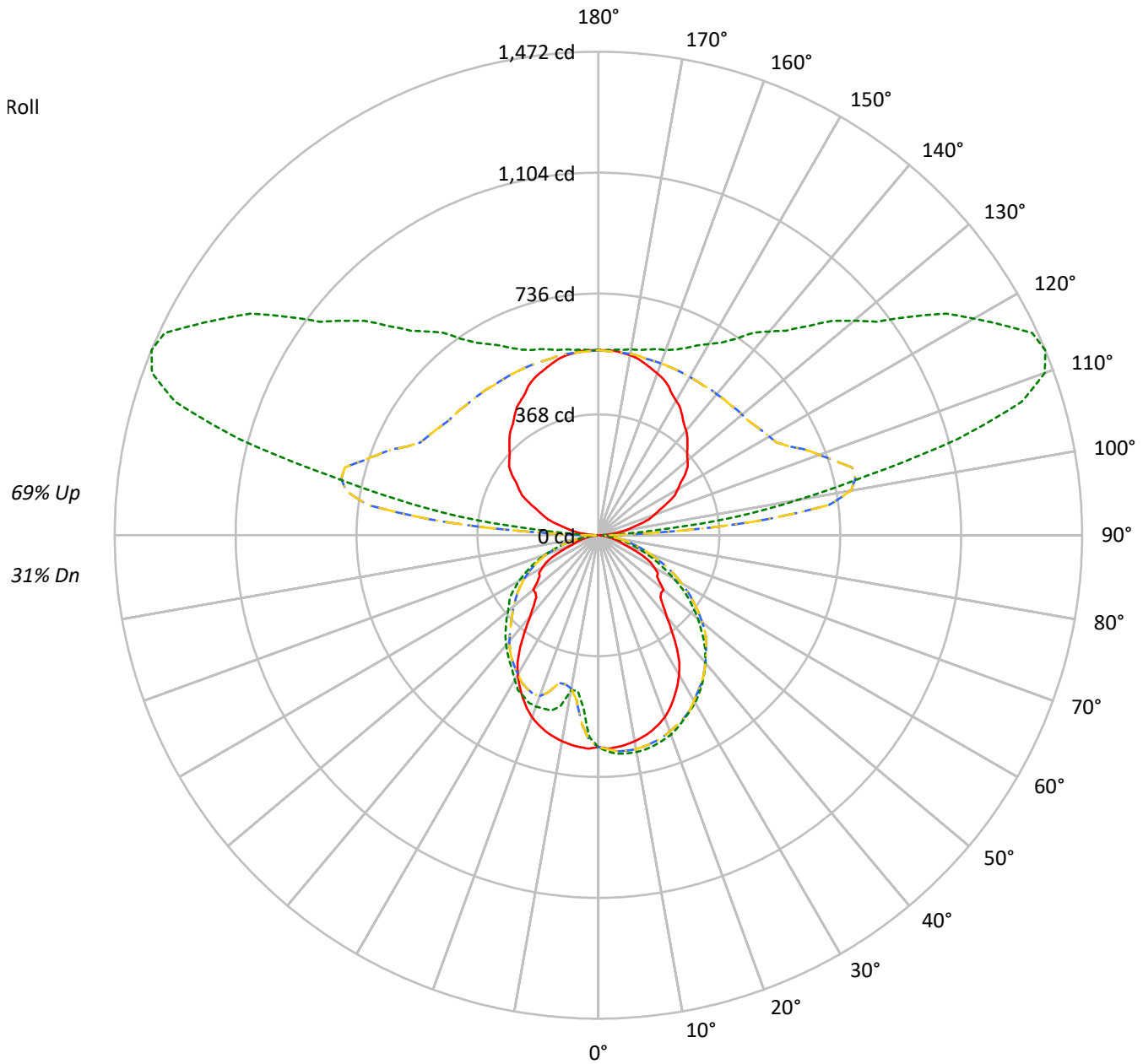
Test Method: LM-79-2019  
Report Number: P935034  
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5328.7 lumens  
Efficiency: N/A  
Efficacy: 129.3 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: Semi-Indirect  
  
Input Watts (W): 41.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P935034  
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

### Luminous Intensity Polar Plot



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



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5983	5983	5983	5983
5°	6021	6040	6021	4749
10°	5975	5950	5975	4254
15°	5903	5821	5903	4860
20°	5773	5668	5773	4871
25°	5514	5446	5514	4767
30°	5181	5260	5181	4541
35°	4611	5027	4611	4292
40°	3836	4752	3836	4104
45°	3421	4429	3421	3887
50°	3627	4044	3627	3670
55°	3402	3630	3402	3545
60°	3495	3083	3495	3246
65°	3153	2548	3153	2849
70°	2168	2031	2168	2389
75°	1879	1502	1879	1798
80°	1484	993	1484	1081
85°	803	526	803	446

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5253 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	1.1
10°-20°	165.3	3.1
20°-30°	255.5	4.8
30°-40°	305.0	5.7
40°-50°	306.8	5.8
50°-60°	266.9	5.0
60°-70°	189.3	3.6
70°-80°	100.1	1.9
80°-90°	27.1	0.5
90°-100°	274.8	5.2
100°-110°	722.5	13.6
110°-120°	749.1	14.1
120°-130°	600.9	11.3
130°-140°	471.5	8.8
140°-150°	361.9	6.8
150°-160°	260.6	4.9
160°-170°	159.5	3.0
170°-180°	53.9	1.0
0°-30°	478.9	9.0
0°-40°	783.9	14.7
0°-60°	1357.6	25.5
0°-90°	1674.1	31.4
90°-120°	1746.4	32.8
90°-150°	3180.6	59.7
90°-180°	3655.0	68.6
0°-180°	5328.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	645	645	645	645	645	
5°	648	668	648	525	648	61
15°	619	662	619	553	619	174
25°	545	617	545	540	545	250
35°	414	551	414	470	414	256
45°	267	454	267	398	267	214
55°	218	335	218	327	218	200
65°	151	202	151	226	151	145
75°	57	96	57	115	57	60
85°	10	24	10	21	10	13
90°	4	14	4	14	4	4
95°	36	166	36	166	36	40
105°	130	1131	130	1131	130	138
115°	231	1457	231	1457	231	228
125°	322	1160	322	1160	322	286
135°	383	900	383	900	383	297
145°	444	730	444	730	444	279
155°	502	629	502	629	502	231
165°	542	586	542	586	542	153
175°	564	568	564	568	564	54
180°	564	564	564	564	564	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	650.3	650.3	653.9	655.2	655.2	653.4	651.6	653.4	658.9	660.7	660.0
5°	647.8	652.8	659.5	660.7	661.9	661.3	660.0	661.3	667.4	668.6	669.2
7.5°	643.0	652.1	660.7	662.5	664.3	662.5	661.9	663.1	669.2	670.4	670.4
10°	636.9	649.7	659.5	660.7	662.5	660.7	660.7	663.1	669.2	670.4	671.0
12.5°	628.4	646.0	655.2	656.4	658.9	658.2	657.7	660.0	666.2	667.4	667.4
15°	618.6	639.3	647.8	649.1	653.4	652.1	652.1	654.6	661.3	663.1	662.5
17.5°	605.2	630.8	640.6	642.4	645.5	644.8	645.5	647.8	653.9	655.2	655.8
20°	589.9	619.2	630.8	632.7	635.7	635.7	635.7	638.7	644.8	647.3	647.3
22.5°	569.2	607.0	619.2	620.5	624.1	624.1	625.3	629.6	635.0	635.7	635.7
25°	544.8	593.5	603.9	607.6	611.3	613.1	614.9	617.4	619.2	618.6	619.2
27.5°	519.1	576.5	589.9	592.4	597.3	599.1	601.5	602.1	602.7	604.5	603.4
30°	490.5	552.7	572.8	575.3	583.2	584.4	582.0	583.2	586.3	587.4	588.7
32.5°	458.2	517.3	555.2	560.6	568.0	564.3	563.7	565.5	570.4	570.4	571.6
35°	414.2	489.8	538.7	543.6	549.1	544.8	547.2	547.8	550.9	552.7	552.1
37.5°	366.0	466.1	521.6	525.2	529.5	524.0	527.7	529.5	532.0	530.8	530.8
40°	323.3	428.9	501.5	503.9	507.6	503.3	506.9	508.2	509.4	508.2	507.6
42.5°	291.6	388.0	480.1	483.2	480.7	483.7	485.0	487.5	485.6	483.2	483.2
45°	267.2	377.0	456.9	460.5	456.9	461.8	463.6	463.6	458.2	456.9	456.3
47.5°	259.2	355.0	433.7	433.7	431.9	438.0	441.1	436.8	431.3	429.4	429.4
50°	258.7	330.7	402.1	399.6	408.2	415.4	412.4	408.2	403.9	397.1	397.1
52.5°	234.9	300.7	361.1	370.3	383.7	388.0	383.1	378.9	371.5	368.5	366.0
55°	217.8	269.6	323.9	342.2	356.3	361.8	352.6	348.3	337.4	335.6	334.3
57.5°	214.1	224.5	289.8	312.9	330.0	329.5	323.9	316.0	306.8	305.0	304.5
60°	196.5	162.3	253.2	280.6	298.3	296.5	291.6	284.3	275.7	274.5	273.3
62.5°	178.1	117.7	211.7	242.8	267.8	267.2	263.0	252.0	245.9	242.8	240.3
65°	151.3	98.8	150.7	201.9	238.0	239.1	230.0	222.0	215.3	211.7	211.0
67.5°	115.3	80.5	101.9	168.4	209.2	208.0	196.5	192.8	184.2	182.4	178.7
70°	85.4	53.7	70.8	136.6	181.2	178.1	169.0	164.7	156.8	152.5	150.1
72.5°	70.8	43.3	51.8	106.2	152.5	148.8	140.9	136.1	129.4	125.7	123.3
75°	57.3	45.8	39.7	78.7	123.8	121.4	114.1	109.2	103.7	98.8	99.4
77.5°	42.1	42.7	31.7	57.9	98.2	94.6	90.3	84.2	81.8	76.9	76.9
80°	31.7	33.6	23.8	39.7	70.8	70.8	67.1	62.9	58.6	56.1	56.1
82.5°	21.4	21.4	17.6	25.0	48.2	46.4	43.9	42.7	40.3	39.0	39.0
85°	9.7	12.2	11.0	15.3	26.2	27.5	27.5	26.2	25.7	24.4	25.0
87.5°	3.1	5.5	6.7	8.6	13.5	14.0	14.6	14.6	14.6	15.3	15.3
90°	3.8	6.8	9.8	10.6	16.6	24.7	28.7	25.6	19.2	14.4	14.4
92.5°	15.1	40.8	66.6	73.0	102.7	142.2	161.9	141.9	101.9	71.9	69.0
95°	36.3	83.4	130.5	142.3	252.6	399.7	473.3	422.3	320.5	244.1	235.4
97.5°	62.8	104.3	145.9	156.3	340.3	585.6	708.2	676.0	611.6	563.3	546.9
100°	83.2	120.9	158.5	168.0	372.2	644.5	780.6	782.9	787.6	791.1	771.5
102.5°	100.6	135.8	170.9	179.7	386.9	662.9	801.0	842.1	924.1	985.6	968.8
105°	130.2	159.9	189.7	197.1	397.7	665.0	798.8	890.7	1074.6	1212.6	1203.6
107.5°	160.5	188.2	215.9	222.9	399.7	635.4	753.3	881.6	1138.2	1330.7	1332.9
110°	180.8	205.9	231.0	237.2	396.6	609.2	715.4	858.9	1145.8	1360.9	1370.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	200.9	224.8	248.6	254.6	396.8	586.3	681.0	827.9	1121.4	1341.6	1356.1
115°	231.1	253.2	275.2	280.7	400.4	560.1	639.8	781.3	1064.1	1276.2	1296.2
117.5°	261.1	281.1	301.1	306.1	407.9	543.6	611.5	739.1	994.3	1185.8	1208.0
120°	278.4	297.3	316.1	320.8	413.9	538.1	600.1	716.7	949.9	1124.9	1146.5
122.5°	295.5	314.6	333.6	338.3	422.6	535.1	591.4	696.3	906.4	1063.9	1085.2
125°	321.6	338.9	356.2	360.6	434.4	532.7	581.9	671.1	849.5	983.3	1003.0
127.5°	342.8	360.2	377.8	382.1	446.1	531.3	574.0	650.6	803.8	918.6	935.2
130°	354.1	373.0	391.8	396.5	454.6	532.2	571.0	639.2	775.6	877.8	893.1
132.5°	365.9	384.7	403.5	408.2	461.5	532.7	568.3	629.3	751.4	843.0	856.7
135°	383.3	400.4	417.6	421.9	469.2	532.2	563.8	614.9	717.1	793.7	805.6
137.5°	401.1	418.1	435.0	439.3	480.5	535.5	563.0	606.2	692.6	757.5	767.1
140°	415.8	431.4	447.1	451.0	487.5	536.0	560.3	597.6	672.3	728.3	737.4
142.5°	427.2	441.6	456.1	459.7	493.3	538.0	560.3	593.1	658.7	707.9	715.7
145°	444.5	457.2	469.7	472.9	500.8	538.1	556.6	583.4	637.0	677.2	683.1
147.5°	462.0	474.3	486.5	489.6	511.9	541.7	556.6	577.7	619.9	651.6	656.5
150°	473.3	484.4	495.5	498.3	517.8	543.7	556.6	574.4	610.0	636.7	640.7
152.5°	485.0	493.4	501.8	503.9	521.5	544.9	556.6	571.8	602.2	625.0	628.0
155°	502.5	508.7	514.9	516.5	529.9	547.7	556.6	568.7	592.9	611.0	613.0
157.5°	515.3	521.4	527.4	529.0	538.1	550.4	556.6	566.0	584.8	598.9	600.3
160°	524.0	528.8	533.4	534.6	542.0	551.7	556.6	564.7	580.8	592.9	593.7
162.5°	532.7	536.2	539.8	540.7	546.0	553.1	556.6	563.4	577.0	587.2	587.9
165°	542.1	545.3	548.5	549.3	551.8	555.0	556.6	561.5	571.3	578.5	579.3
167.5°	550.9	552.4	554.0	554.3	556.3	559.0	560.3	563.5	569.9	574.7	575.1
170°	556.6	558.1	559.6	560.0	560.1	560.2	560.3	563.5	569.9	574.7	574.7
172.5°	559.6	560.0	560.2	560.3	560.3	560.3	560.3	562.9	567.9	571.7	571.4
175°	563.8	563.8	563.8	563.8	562.6	561.1	560.3	562.0	565.2	567.5	567.5
177.5°	563.8	563.8	563.8	563.8	562.9	561.7	561.1	562.3	564.9	566.8	566.4
180°	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	661.3	659.5	661.3	660.0	660.7	658.9	653.4	651.6	653.4	655.2	655.2
5°	669.2	668.0	669.2	669.2	668.6	667.4	661.3	660.0	661.3	661.9	660.7
7.5°	671.7	669.9	671.7	670.4	670.4	669.2	663.1	661.9	662.5	664.3	662.5
10°	671.7	669.9	671.7	671.0	670.4	669.2	663.1	660.7	660.7	662.5	660.7
12.5°	668.6	667.4	668.6	667.4	667.4	666.2	660.0	657.7	658.2	658.9	656.4
15°	663.8	661.9	663.8	662.5	663.1	661.3	654.6	652.1	652.1	653.4	649.1
17.5°	656.4	653.9	656.4	655.8	655.2	653.9	647.8	645.5	644.8	645.5	642.4
20°	647.8	646.0	647.8	647.3	647.3	644.8	638.7	635.7	635.7	635.7	632.7
22.5°	634.5	632.7	634.5	635.7	635.7	635.0	629.6	625.3	624.1	624.1	620.5
25°	619.2	617.4	619.2	619.2	618.6	619.2	617.4	614.9	613.1	611.3	607.6
27.5°	604.5	603.4	604.5	603.4	604.5	602.7	602.1	601.5	599.1	597.3	592.4
30°	589.9	588.7	589.9	588.7	587.4	586.3	583.2	582.0	584.4	583.2	575.3
32.5°	571.6	570.4	571.6	571.6	570.4	570.4	565.5	563.7	564.3	568.0	560.6
35°	552.7	550.9	552.7	552.1	552.7	550.9	547.8	547.2	544.8	549.1	543.6
37.5°	530.8	529.0	530.8	530.8	530.8	532.0	529.5	527.7	524.0	529.5	525.2
40°	508.2	505.8	508.2	507.6	508.2	509.4	508.2	506.9	503.3	507.6	503.9
42.5°	482.6	481.9	482.6	483.2	483.2	485.6	487.5	485.0	483.7	480.7	483.2
45°	455.1	453.9	455.1	456.3	456.9	458.2	463.6	463.6	461.8	456.9	460.5
47.5°	425.8	422.8	425.8	429.4	429.4	431.3	436.8	441.1	438.0	431.9	433.7
50°	394.7	395.3	394.7	397.1	397.1	403.9	408.2	412.4	415.4	408.2	399.6
52.5°	364.2	363.6	364.2	366.0	368.5	371.5	378.9	383.1	388.0	383.7	370.3
55°	333.7	334.9	333.7	334.3	335.6	337.4	348.3	352.6	361.8	356.3	342.2
57.5°	303.2	301.4	303.2	304.5	305.0	306.8	316.0	323.9	329.5	330.0	312.9
60°	267.8	265.3	267.8	273.3	274.5	275.7	284.3	291.6	296.5	298.3	280.6
62.5°	236.7	232.4	236.7	240.3	242.8	245.9	252.0	263.0	267.2	267.8	242.8
65°	203.8	201.9	203.8	211.0	211.7	215.3	222.0	230.0	239.1	238.0	201.9
67.5°	173.8	173.8	173.8	178.7	182.4	184.2	192.8	196.5	208.0	209.2	168.4
70°	146.5	145.8	146.5	150.1	152.5	156.8	164.7	169.0	178.1	181.2	136.6
72.5°	120.2	119.5	120.2	123.3	125.7	129.4	136.1	140.9	148.8	152.5	106.2
75°	97.0	95.8	97.0	99.4	98.8	103.7	109.2	114.1	121.4	123.8	78.7
77.5°	74.4	74.4	74.4	76.9	76.9	81.8	84.2	90.3	94.6	98.2	57.9
80°	55.5	54.9	55.5	56.1	56.1	58.6	62.9	67.1	70.8	70.8	39.7
82.5°	39.0	37.8	39.0	39.0	39.0	40.3	42.7	43.9	46.4	48.2	25.0
85°	24.4	24.4	24.4	25.0	24.4	25.7	26.2	27.5	27.5	26.2	15.3
87.5°	15.8	15.3	15.8	15.3	15.3	14.6	14.6	14.6	14.0	13.5	8.6
90°	14.4	14.4	14.4	14.4	14.4	19.2	25.6	28.7	24.7	16.6	10.6
92.5°	57.6	46.1	57.6	69.0	71.9	101.9	141.9	161.9	142.2	102.7	73.0
95°	200.8	166.1	200.8	235.4	244.1	320.5	422.3	473.3	399.7	252.6	142.3
97.5°	480.9	415.1	480.9	546.9	563.3	611.6	676.0	708.2	585.6	340.3	156.3
100°	693.0	614.5	693.0	771.5	791.1	787.6	782.9	780.6	644.5	372.2	168.0
102.5°	901.5	834.3	901.5	968.8	985.6	924.1	842.1	801.0	662.9	386.9	179.7
105°	1167.4	1131.3	1167.4	1203.6	1212.6	1074.6	890.7	798.8	665.0	397.7	197.1
107.5°	1341.6	1350.4	1341.6	1332.9	1330.7	1138.2	881.6	753.3	635.4	399.7	222.9
110°	1408.0	1445.7	1408.0	1370.4	1360.9	1145.8	858.9	715.4	609.2	396.6	237.2





TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1413.9	1471.8	1413.9	1356.1	1341.6	1121.4	827.9	681.0	586.3	396.8	254.6
115°	1376.5	1456.7	1376.5	1296.2	1276.2	1064.1	781.3	639.8	560.1	400.4	280.7
117.5°	1297.0	1385.9	1297.0	1208.0	1185.8	994.3	739.1	611.5	543.6	407.9	306.1
120°	1232.9	1319.3	1232.9	1146.5	1124.9	949.9	716.7	600.1	538.1	413.9	320.8
122.5°	1170.5	1255.8	1170.5	1085.2	1063.9	906.4	696.3	591.4	535.1	422.6	338.3
125°	1081.5	1160.1	1081.5	1003.0	983.3	849.5	671.1	581.9	532.7	434.4	360.6
127.5°	1001.5	1067.7	1001.5	935.2	918.6	803.8	650.6	574.0	531.3	446.1	382.1
130°	954.3	1015.5	954.3	893.1	877.8	775.6	639.2	571.0	532.2	454.6	396.5
132.5°	911.5	966.3	911.5	856.7	843.0	751.4	629.3	568.3	532.7	461.5	408.2
135°	852.8	900.1	852.8	805.6	793.7	717.1	614.9	563.8	532.2	469.2	421.9
137.5°	805.8	844.5	805.8	767.1	757.5	692.6	606.2	563.0	535.5	480.5	439.3
140°	773.6	809.7	773.6	737.4	728.3	672.3	597.6	560.3	536.0	487.5	451.0
142.5°	746.8	777.9	746.8	715.7	707.9	658.7	593.1	560.3	538.0	493.3	459.7
145°	706.7	730.3	706.7	683.1	677.2	637.0	583.4	556.6	538.1	500.8	472.9
147.5°	676.0	695.4	676.0	656.5	651.6	619.9	577.7	556.6	541.7	511.9	489.6
150°	656.5	672.3	656.5	640.7	636.7	610.0	574.4	556.6	543.7	517.8	498.3
152.5°	639.9	651.9	639.9	628.0	625.0	602.2	571.8	556.6	544.9	521.5	503.9
155°	620.9	628.8	620.9	613.0	611.0	592.9	568.7	556.6	547.7	529.9	516.5
157.5°	605.9	611.5	605.9	600.3	598.9	584.8	566.0	556.6	550.4	538.1	529.0
160°	596.9	600.1	596.9	593.7	592.9	580.8	564.7	556.6	551.7	542.0	534.6
162.5°	591.0	594.0	591.0	587.9	587.2	577.0	563.4	556.6	553.1	546.0	540.7
165°	582.5	585.7	582.5	579.3	578.5	571.3	561.5	556.6	555.0	551.8	549.3
167.5°	576.3	577.7	576.3	575.1	574.7	569.9	563.5	560.3	559.0	556.3	554.3
170°	574.7	574.7	574.7	574.7	574.7	569.9	563.5	560.3	560.2	560.1	560.0
172.5°	570.3	569.1	570.3	571.4	571.7	567.9	562.9	560.3	560.3	560.3	560.3
175°	567.5	567.5	567.5	567.5	567.5	565.2	562.0	560.3	561.1	562.6	563.8
177.5°	565.2	563.8	565.2	566.4	566.8	564.9	562.3	561.1	561.7	562.9	563.8
180°	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8



TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	653.9	650.3	650.3	644.2	641.7	639.9	636.9	627.7	625.3	622.8	626.6
5°	659.5	652.8	647.8	636.9	627.7	624.1	612.5	590.5	575.9	564.9	558.8
7.5°	660.7	652.1	643.0	625.9	603.9	594.2	558.8	518.6	507.6	497.8	491.7
10°	659.5	649.7	636.9	611.3	559.4	542.3	506.9	480.7	474.0	472.2	474.0
12.5°	655.2	646.0	628.4	585.6	513.0	501.5	480.7	465.5	464.3	467.3	483.7
15°	647.8	639.3	618.6	551.5	487.5	478.9	464.3	458.7	465.5	486.8	536.2
17.5°	640.6	630.8	605.2	517.9	467.9	461.8	451.5	462.5	500.2	529.0	545.4
20°	630.8	619.2	589.9	493.6	453.9	448.4	443.5	492.9	521.6	532.0	541.1
22.5°	619.2	607.0	569.2	476.5	439.3	435.0	438.0	510.0	521.6	529.0	536.9
25°	603.9	593.5	544.8	463.0	427.6	422.8	434.4	508.2	514.9	516.7	532.6
27.5°	589.9	576.5	519.1	450.8	413.6	411.8	437.4	500.2	505.1	506.9	524.0
30°	572.8	552.7	490.5	438.0	399.0	398.3	438.0	490.5	489.3	494.1	511.2
32.5°	555.2	517.3	458.2	422.2	385.0	384.3	433.7	475.8	474.6	481.3	494.1
35°	538.7	489.8	414.2	403.9	367.2	367.9	423.3	458.7	459.4	465.5	473.4
37.5°	521.6	466.1	366.0	383.7	350.2	350.2	409.3	442.9	441.7	443.5	454.5
40°	501.5	428.9	323.3	357.5	334.3	332.5	392.2	425.8	421.5	421.0	436.2
42.5°	480.1	388.0	291.6	322.7	316.0	313.6	371.5	405.1	397.1	399.0	418.5
45°	456.9	377.0	267.2	272.7	297.1	295.3	348.9	381.3	375.8	380.7	400.8
47.5°	433.7	355.0	259.2	226.3	277.0	276.3	323.9	358.1	355.0	359.9	381.3
50°	402.1	330.7	258.7	194.0	254.4	256.8	294.1	335.6	335.6	339.8	362.4
52.5°	361.1	300.7	234.9	175.7	228.1	235.5	267.8	316.0	317.2	321.5	341.7
55°	323.9	269.6	217.8	161.6	197.0	212.9	242.1	295.9	298.3	302.5	320.9
57.5°	289.8	224.5	214.1	145.2	168.4	183.7	219.6	276.3	277.5	281.3	298.9
60°	253.2	162.3	196.5	127.5	143.4	154.9	198.8	253.2	257.4	259.9	275.2
62.5°	211.7	117.7	178.1	115.3	131.2	133.6	181.8	231.2	236.7	238.5	247.7
65°	150.7	98.8	151.3	105.0	118.3	119.0	163.5	208.7	213.5	216.6	223.3
67.5°	101.9	80.5	115.3	95.1	108.6	109.2	145.8	182.4	189.1	191.6	195.8
70°	70.8	53.7	85.4	84.8	97.6	98.8	126.9	158.6	164.7	166.6	169.0
72.5°	51.8	43.3	70.8	76.2	86.1	87.2	107.3	131.8	137.9	139.7	140.9
75°	39.7	45.8	57.3	66.5	73.2	73.8	87.9	107.3	111.6	112.9	113.4
77.5°	31.7	42.7	42.1	53.7	59.8	58.6	69.0	83.0	86.6	86.6	86.6
80°	23.8	33.6	31.7	38.5	43.9	42.7	49.4	59.2	60.4	61.6	61.0
82.5°	17.6	21.4	21.4	24.4	29.3	28.1	32.9	38.5	38.5	38.5	39.7
85°	11.0	12.2	9.7	12.8	16.5	15.8	18.3	20.7	21.4	21.4	20.1
87.5°	6.7	5.5	3.1	4.9	7.3	7.3	8.6	9.2	8.6	8.6	8.6
90°	9.8	6.8	3.8	6.8	9.8	10.6	16.6	24.7	28.7	25.6	19.2
92.5°	66.6	40.8	15.1	40.8	66.6	73.0	102.7	142.2	161.9	141.9	101.9
95°	130.5	83.4	36.3	83.4	130.5	142.3	252.6	399.7	473.3	422.3	320.5
97.5°	145.9	104.3	62.8	104.3	145.9	156.3	340.3	585.6	708.2	676.0	611.6
100°	158.5	120.9	83.2	120.9	158.5	168.0	372.2	644.5	780.6	782.9	787.6
102.5°	170.9	135.8	100.6	135.8	170.9	179.7	386.9	662.9	801.0	842.1	924.1
105°	189.7	159.9	130.2	159.9	189.7	197.1	397.7	665.0	798.8	890.7	1074.6
107.5°	215.9	188.2	160.5	188.2	215.9	222.9	399.7	635.4	753.3	881.6	1138.2
110°	231.0	205.9	180.8	205.9	231.0	237.2	396.6	609.2	715.4	858.9	1145.8



TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	248.6	224.8	200.9	224.8	248.6	254.6	396.8	586.3	681.0	827.9	1121.4
115°	275.2	253.2	231.1	253.2	275.2	280.7	400.4	560.1	639.8	781.3	1064.1
117.5°	301.1	281.1	261.1	281.1	301.1	306.1	407.9	543.6	611.5	739.1	994.3
120°	316.1	297.3	278.4	297.3	316.1	320.8	413.9	538.1	600.1	716.7	949.9
122.5°	333.6	314.6	295.5	314.6	333.6	338.3	422.6	535.1	591.4	696.3	906.4
125°	356.2	338.9	321.6	338.9	356.2	360.6	434.4	532.7	581.9	671.1	849.5
127.5°	377.8	360.2	342.8	360.2	377.8	382.1	446.1	531.3	574.0	650.6	803.8
130°	391.8	373.0	354.1	373.0	391.8	396.5	454.6	532.2	571.0	639.2	775.6
132.5°	403.5	384.7	365.9	384.7	403.5	408.2	461.5	532.7	568.3	629.3	751.4
135°	417.6	400.4	383.3	400.4	417.6	421.9	469.2	532.2	563.8	614.9	717.1
137.5°	435.0	418.1	401.1	418.1	435.0	439.3	480.5	535.5	563.0	606.2	692.6
140°	447.1	431.4	415.8	431.4	447.1	451.0	487.5	536.0	560.3	597.6	672.3
142.5°	456.1	441.6	427.2	441.6	456.1	459.7	493.3	538.0	560.3	593.1	658.7
145°	469.7	457.2	444.5	457.2	469.7	472.9	500.8	538.1	556.6	583.4	637.0
147.5°	486.5	474.3	462.0	474.3	486.5	489.6	511.9	541.7	556.6	577.7	619.9
150°	495.5	484.4	473.3	484.4	495.5	498.3	517.8	543.7	556.6	574.4	610.0
152.5°	501.8	493.4	485.0	493.4	501.8	503.9	521.5	544.9	556.6	571.8	602.2
155°	514.9	508.7	502.5	508.7	514.9	516.5	529.9	547.7	556.6	568.7	592.9
157.5°	527.4	521.4	515.3	521.4	527.4	529.0	538.1	550.4	556.6	566.0	584.8
160°	533.4	528.8	524.0	528.8	533.4	534.6	542.0	551.7	556.6	564.7	580.8
162.5°	539.8	536.2	532.7	536.2	539.8	540.7	546.0	553.1	556.6	563.4	577.0
165°	548.5	545.3	542.1	545.3	548.5	549.3	551.8	555.0	556.6	561.5	571.3
167.5°	554.0	552.4	550.9	552.4	554.0	554.3	556.3	559.0	560.3	563.5	569.9
170°	559.6	558.1	556.6	558.1	559.6	560.0	560.1	560.2	560.3	563.5	569.9
172.5°	560.2	560.0	559.6	560.0	560.2	560.3	560.3	560.3	560.3	562.9	567.9
175°	563.8	563.8	563.8	563.8	563.8	563.8	562.6	561.1	560.3	562.0	565.2
177.5°	563.8	563.8	563.8	563.8	563.8	563.8	562.9	561.7	561.1	562.3	564.9
180°	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8



TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	622.3	620.5	622.8	616.2	622.8	620.5	622.3	626.6	622.8	625.3	627.7
5°	546.0	543.0	533.2	525.2	533.2	543.0	546.0	558.8	564.9	575.9	590.5
7.5°	488.0	485.6	483.2	478.3	483.2	485.6	488.0	491.7	497.8	507.6	518.6
10°	475.2	475.8	479.5	478.9	479.5	475.8	475.2	474.0	472.2	474.0	480.7
12.5°	508.2	513.7	533.8	532.6	533.8	513.7	508.2	483.7	467.3	464.3	465.5
15°	546.0	547.8	552.1	552.7	552.1	547.8	546.0	536.2	486.8	465.5	458.7
17.5°	549.7	550.2	553.3	553.3	553.3	550.2	549.7	545.4	529.0	500.2	462.5
20°	546.6	547.8	554.0	555.2	554.0	547.8	546.6	541.1	532.0	521.6	492.9
22.5°	545.4	547.8	552.7	552.1	552.7	547.8	545.4	536.9	529.0	521.6	510.0
25°	539.3	539.3	539.9	540.5	539.9	539.3	539.3	532.6	516.7	514.9	508.2
27.5°	526.5	527.7	531.3	530.8	531.3	527.7	526.5	524.0	506.9	505.1	500.2
30°	514.9	513.7	510.6	508.2	510.6	513.7	514.9	511.2	494.1	489.3	490.5
32.5°	495.4	492.3	489.3	487.5	489.3	492.3	495.4	494.1	481.3	474.6	475.8
35°	472.2	472.8	472.2	470.4	472.2	472.8	472.2	473.4	465.5	459.4	458.7
37.5°	455.7	456.9	456.3	453.9	456.3	456.9	455.7	454.5	443.5	441.7	442.9
40°	438.6	439.3	438.6	436.8	438.6	439.3	438.6	436.2	421.0	421.5	425.8
42.5°	422.2	421.5	419.7	418.5	419.7	421.5	422.2	418.5	399.0	397.1	405.1
45°	403.2	403.9	400.1	398.3	400.1	403.9	403.2	400.8	380.7	375.8	381.3
47.5°	384.3	384.3	381.3	379.4	381.3	384.3	384.3	381.3	359.9	355.0	358.1
50°	364.2	363.6	359.3	358.7	359.3	363.6	364.2	362.4	339.8	335.6	335.6
52.5°	341.0	341.0	341.7	342.8	341.7	341.0	341.0	341.7	321.5	317.2	316.0
55°	320.9	321.5	325.7	327.0	325.7	321.5	320.9	320.9	302.5	298.3	295.9
57.5°	300.2	300.2	303.2	303.2	303.2	300.2	300.2	298.9	281.3	277.5	276.3
60°	276.3	277.5	280.0	279.4	280.0	277.5	276.3	275.2	259.9	257.4	253.2
62.5°	251.3	252.6	253.2	252.0	253.2	252.6	251.3	247.7	238.5	236.7	231.2
65°	225.1	226.3	227.0	225.7	227.0	226.3	225.1	223.3	216.6	213.5	208.7
67.5°	198.3	197.7	197.0	199.5	197.0	197.7	198.3	195.8	191.6	189.1	182.4
70°	170.8	170.8	170.2	171.5	170.2	170.8	170.8	169.0	166.6	164.7	158.6
72.5°	141.5	140.9	143.4	141.5	143.4	140.9	141.5	140.9	139.7	137.9	131.8
75°	112.9	114.1	112.9	114.7	112.9	114.1	112.9	113.4	112.9	111.6	107.3
77.5°	86.1	87.2	86.1	86.1	86.1	87.2	86.1	86.6	86.6	86.6	83.0
80°	61.0	60.4	60.4	59.8	60.4	60.4	61.0	61.0	61.6	60.4	59.2
82.5°	39.0	38.5	38.5	39.7	38.5	38.5	39.0	39.7	38.5	38.5	38.5
85°	21.4	21.9	20.7	20.7	20.7	21.9	21.4	20.1	21.4	21.4	20.7
87.5°	7.9	7.3	7.3	7.3	7.3	7.3	7.9	8.6	8.6	8.6	9.2
90°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	19.2	25.6	28.7	24.7
92.5°	71.9	69.0	57.6	46.1	57.6	69.0	71.9	101.9	141.9	161.9	142.2
95°	244.1	235.4	200.8	166.1	200.8	235.4	244.1	320.5	422.3	473.3	399.7
97.5°	563.3	546.9	480.9	415.1	480.9	546.9	563.3	611.6	676.0	708.2	585.6
100°	791.1	771.5	693.0	614.5	693.0	771.5	791.1	787.6	782.9	780.6	644.5
102.5°	985.6	968.8	901.5	834.3	901.5	968.8	985.6	924.1	842.1	801.0	662.9
105°	1212.6	1203.6	1167.4	1131.3	1167.4	1203.6	1212.6	1074.6	890.7	798.8	665.0
107.5°	1330.7	1332.9	1341.6	1350.4	1341.6	1332.9	1330.7	1138.2	881.6	753.3	635.4
110°	1360.9	1370.4	1408.0	1445.7	1408.0	1370.4	1360.9	1145.8	858.9	715.4	609.2



TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1341.6	1356.1	1413.9	1471.8	1413.9	1356.1	1341.6	1121.4	827.9	681.0	586.3
115°	1276.2	1296.2	1376.5	1456.7	1376.5	1296.2	1276.2	1064.1	781.3	639.8	560.1
117.5°	1185.8	1208.0	1297.0	1385.9	1297.0	1208.0	1185.8	994.3	739.1	611.5	543.6
120°	1124.9	1146.5	1232.9	1319.3	1232.9	1146.5	1124.9	949.9	716.7	600.1	538.1
122.5°	1063.9	1085.2	1170.5	1255.8	1170.5	1085.2	1063.9	906.4	696.3	591.4	535.1
125°	983.3	1003.0	1081.5	1160.1	1081.5	1003.0	983.3	849.5	671.1	581.9	532.7
127.5°	918.6	935.2	1001.5	1067.7	1001.5	935.2	918.6	803.8	650.6	574.0	531.3
130°	877.8	893.1	954.3	1015.5	954.3	893.1	877.8	775.6	639.2	571.0	532.2
132.5°	843.0	856.7	911.5	966.3	911.5	856.7	843.0	751.4	629.3	568.3	532.7
135°	793.7	805.6	852.8	900.1	852.8	805.6	793.7	717.1	614.9	563.8	532.2
137.5°	757.5	767.1	805.8	844.5	805.8	767.1	757.5	692.6	606.2	563.0	535.5
140°	728.3	737.4	773.6	809.7	773.6	737.4	728.3	672.3	597.6	560.3	536.0
142.5°	707.9	715.7	746.8	777.9	746.8	715.7	707.9	658.7	593.1	560.3	538.0
145°	677.2	683.1	706.7	730.3	706.7	683.1	677.2	637.0	583.4	556.6	538.1
147.5°	651.6	656.5	676.0	695.4	676.0	656.5	651.6	619.9	577.7	556.6	541.7
150°	636.7	640.7	656.5	672.3	656.5	640.7	636.7	610.0	574.4	556.6	543.7
152.5°	625.0	628.0	639.9	651.9	639.9	628.0	625.0	602.2	571.8	556.6	544.9
155°	611.0	613.0	620.9	628.8	620.9	613.0	611.0	592.9	568.7	556.6	547.7
157.5°	598.9	600.3	605.9	611.5	605.9	600.3	598.9	584.8	566.0	556.6	550.4
160°	592.9	593.7	596.9	600.1	596.9	593.7	592.9	580.8	564.7	556.6	551.7
162.5°	587.2	587.9	591.0	594.0	591.0	587.9	587.2	577.0	563.4	556.6	553.1
165°	578.5	579.3	582.5	585.7	582.5	579.3	578.5	571.3	561.5	556.6	555.0
167.5°	574.7	575.1	576.3	577.7	576.3	575.1	574.7	569.9	563.5	560.3	559.0
170°	574.7	574.7	574.7	574.7	574.7	574.7	574.7	569.9	563.5	560.3	560.2
172.5°	571.7	571.4	570.3	569.1	570.3	571.4	571.7	567.9	562.9	560.3	560.3
175°	567.5	567.5	567.5	567.5	567.5	567.5	567.5	565.2	562.0	560.3	561.1
177.5°	566.8	566.4	565.2	563.8	565.2	566.4	566.8	564.9	562.3	561.1	561.7
180°	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8	563.8



TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	644.8	644.8	644.8	644.8	644.8
2.5°	636.9	639.9	641.7	644.2	650.3
5°	612.5	624.1	627.7	636.9	647.8
7.5°	558.8	594.2	603.9	625.9	643.0
10°	506.9	542.3	559.4	611.3	636.9
12.5°	480.7	501.5	513.0	585.6	628.4
15°	464.3	478.9	487.5	551.5	618.6
17.5°	451.5	461.8	467.9	517.9	605.2
20°	443.5	448.4	453.9	493.6	589.9
22.5°	438.0	435.0	439.3	476.5	569.2
25°	434.4	422.8	427.6	463.0	544.8
27.5°	437.4	411.8	413.6	450.8	519.1
30°	438.0	398.3	399.0	438.0	490.5
32.5°	433.7	384.3	385.0	422.2	458.2
35°	423.3	367.9	367.2	403.9	414.2
37.5°	409.3	350.2	350.2	383.7	366.0
40°	392.2	332.5	334.3	357.5	323.3
42.5°	371.5	313.6	316.0	322.7	291.6
45°	348.9	295.3	297.1	272.7	267.2
47.5°	323.9	276.3	277.0	226.3	259.2
50°	294.1	256.8	254.4	194.0	258.7
52.5°	267.8	235.5	228.1	175.7	234.9
55°	242.1	212.9	197.0	161.6	217.8
57.5°	219.6	183.7	168.4	145.2	214.1
60°	198.8	154.9	143.4	127.5	196.5
62.5°	181.8	133.6	131.2	115.3	178.1
65°	163.5	119.0	118.3	105.0	151.3
67.5°	145.8	109.2	108.6	95.1	115.3
70°	126.9	98.8	97.6	84.8	85.4
72.5°	107.3	87.2	86.1	76.2	70.8
75°	87.9	73.8	73.2	66.5	57.3
77.5°	69.0	58.6	59.8	53.7	42.1
80°	49.4	42.7	43.9	38.5	31.7
82.5°	32.9	28.1	29.3	24.4	21.4
85°	18.3	15.8	16.5	12.8	9.7
87.5°	8.6	7.3	7.3	4.9	3.1
90°	16.6	10.6	9.8	6.8	3.8
92.5°	102.7	73.0	66.6	40.8	15.1
95°	252.6	142.3	130.5	83.4	36.3
97.5°	340.3	156.3	145.9	104.3	62.8
100°	372.2	168.0	158.5	120.9	83.2
102.5°	386.9	179.7	170.9	135.8	100.6
105°	397.7	197.1	189.7	159.9	130.2
107.5°	399.7	222.9	215.9	188.2	160.5
110°	396.6	237.2	231.0	205.9	180.8



TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	396.8	254.6	248.6	224.8	200.9
115°	400.4	280.7	275.2	253.2	231.1
117.5°	407.9	306.1	301.1	281.1	261.1
120°	413.9	320.8	316.1	297.3	278.4
122.5°	422.6	338.3	333.6	314.6	295.5
125°	434.4	360.6	356.2	338.9	321.6
127.5°	446.1	382.1	377.8	360.2	342.8
130°	454.6	396.5	391.8	373.0	354.1
132.5°	461.5	408.2	403.5	384.7	365.9
135°	469.2	421.9	417.6	400.4	383.3
137.5°	480.5	439.3	435.0	418.1	401.1
140°	487.5	451.0	447.1	431.4	415.8
142.5°	493.3	459.7	456.1	441.6	427.2
145°	500.8	472.9	469.7	457.2	444.5
147.5°	511.9	489.6	486.5	474.3	462.0
150°	517.8	498.3	495.5	484.4	473.3
152.5°	521.5	503.9	501.8	493.4	485.0
155°	529.9	516.5	514.9	508.7	502.5
157.5°	538.1	529.0	527.4	521.4	515.3
160°	542.0	534.6	533.4	528.8	524.0
162.5°	546.0	540.7	539.8	536.2	532.7
165°	551.8	549.3	548.5	545.3	542.1
167.5°	556.3	554.3	554.0	552.4	550.9
170°	560.1	560.0	559.6	558.1	556.6
172.5°	560.3	560.3	560.2	560.0	559.6
175°	562.6	563.8	563.8	563.8	563.8
177.5°	562.9	563.8	563.8	563.8	563.8
180°	563.8	563.8	563.8	563.8	563.8



TEST NUMBER: P935034

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-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	8.99	9.70	10.09	10.80	12.31	11.78	12.50	12.89	13.60	15.11
	3H	9.45	10.09	10.56	11.20	12.73	13.11	13.75	14.22	14.86	16.39
	4H	9.64	10.24	10.76	11.35	12.89	13.54	14.15	14.66	15.25	16.79
	6H	9.75	10.31	10.88	11.42	12.97	13.81	14.37	14.94	15.48	17.03
	8H	9.74	10.28	10.88	11.40	12.94	13.87	14.41	15.01	15.53	17.07
	12H	9.71	10.22	10.85	11.34	12.90	13.90	14.41	15.04	15.53	17.09
4H	2H	9.99	10.60	11.12	11.71	13.25	12.18	12.78	13.30	13.89	15.43
	3H	11.00	11.51	12.14	12.65	14.19	13.66	14.17	14.79	15.30	16.85
	4H	11.27	11.74	12.41	12.86	14.43	14.17	14.64	15.31	15.76	17.33
	6H	11.39	11.79	12.54	12.94	14.50	14.52	14.92	15.67	16.07	17.63
	8H	11.39	11.77	12.54	12.91	14.48	14.62	14.99	15.76	16.13	17.71
	12H	11.35	11.69	12.51	12.84	14.42	14.66	15.00	15.83	16.15	17.73
8H	4H	11.71	12.08	12.86	13.22	14.80	14.29	14.66	15.43	15.80	17.37
	6H	11.97	12.27	13.13	13.45	15.03	14.71	15.02	15.87	16.20	17.77
	8H	12.01	12.28	13.18	13.44	15.03	14.85	15.12	16.02	16.28	17.88
	12H	11.99	12.22	13.16	13.38	15.01	14.94	15.18	16.11	16.33	17.96
12H	4H	11.71	12.05	12.87	13.20	14.78	14.24	14.58	15.40	15.73	17.31
	6H	12.03	12.29	13.20	13.45	15.05	14.71	14.97	15.88	16.13	17.73
	8H	12.09	12.32	13.26	13.48	15.11	14.85	15.09	16.03	16.25	17.87