

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: P935059

Luminaire Tested: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935059
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-93050-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

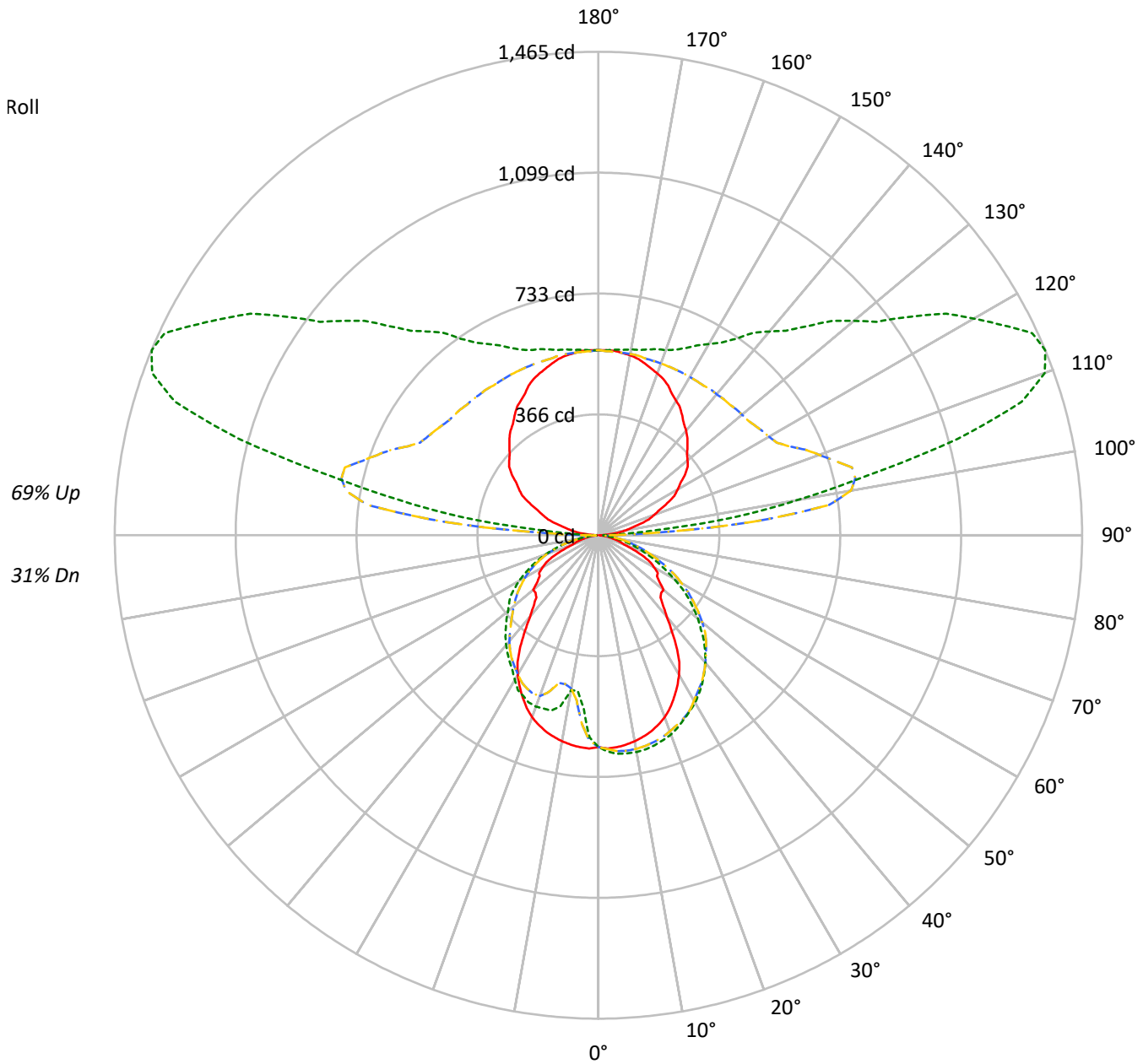
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5302.5 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.2
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: P935059
CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-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					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	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	31																
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27																
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22																
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19																
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16																
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14																
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12																
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11																
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10																
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9																
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8																

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5954	5954	5954	5954
5°	5992	6011	5992	4725
10°	5946	5921	5946	4233
15°	5874	5793	5874	4837
20°	5744	5640	5744	4847
25°	5486	5418	5486	4744
30°	5155	5235	5155	4519
35°	4589	5002	4589	4271
40°	3817	4728	3817	4084
45°	3403	4408	3403	3868
50°	3608	4025	3608	3652
55°	3385	3613	3385	3527
60°	3478	3067	3478	3231
65°	3136	2536	3136	2835
70°	2158	2021	2158	2377
75°	1869	1494	1869	1789
80°	1479	989	1479	1076
85°	803	524	803	444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
Vertical Angle: 45°
Luminance: 5228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	164.5	3.1
20°-30°	254.2	4.8
30°-40°	303.5	5.7
40°-50°	305.3	5.8
50°-60°	265.6	5.0
60°-70°	188.3	3.6
70°-80°	99.6	1.9
80°-90°	27.0	0.5
90°-100°	273.4	5.2
100°-110°	718.9	13.6
110°-120°	745.4	14.1
120°-130°	597.9	11.3
130°-140°	469.2	8.8
140°-150°	360.1	6.8
150°-160°	259.3	4.9
160°-170°	158.7	3.0
170°-180°	53.6	1.0
0°-30°	476.6	9.0
0°-40°	780.1	14.7
0°-60°	1350.9	25.5
0°-90°	1665.8	31.4
90°-120°	1737.8	32.8
90°-150°	3165.0	59.7
90°-180°	3637.0	68.6
0°-180°	5302.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	642	642	642	642	642	
5°	645	665	645	523	645	61
15°	616	659	616	550	616	173
25°	542	614	542	538	542	249
35°	412	548	412	468	412	255
45°	266	452	266	396	266	213
55°	217	333	217	325	217	199
65°	150	201	150	225	150	144
75°	57	95	57	114	57	60
85°	10	24	10	21	10	13
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	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	647.1	647.1	650.7	652.0	652.0	650.2	648.4	650.2	655.6	657.4	656.8
5°	644.7	649.5	656.2	657.4	658.7	658.1	656.8	658.1	664.1	665.3	665.9
7.5°	639.9	648.9	657.4	659.2	661.0	659.2	658.7	659.9	665.9	667.1	667.1
10°	633.8	646.5	656.2	657.4	659.2	657.4	657.4	659.9	665.9	667.1	667.7
12.5°	625.3	642.8	652.0	653.2	655.6	655.0	654.4	656.8	662.9	664.1	664.1
15°	615.5	636.1	644.7	645.9	650.2	648.9	648.9	651.4	658.1	659.9	659.2
17.5°	602.2	627.7	637.4	639.2	642.3	641.7	642.3	644.7	650.7	652.0	652.6
20°	587.0	616.1	627.7	629.5	632.5	632.5	632.5	635.6	641.7	644.1	644.1
22.5°	566.4	604.0	616.1	617.4	621.0	621.0	622.2	626.5	631.9	632.5	632.5
25°	542.1	590.6	600.9	604.6	608.3	610.1	611.9	614.3	616.1	615.5	616.1
27.5°	516.6	573.7	587.0	589.4	594.3	596.1	598.6	599.1	599.8	601.6	600.4
30°	488.1	550.0	570.0	572.4	580.3	581.6	579.1	580.3	583.4	584.6	585.8
32.5°	455.9	514.8	552.4	557.9	565.2	561.6	560.9	562.7	567.6	567.6	568.8
35°	412.2	487.4	536.0	540.9	546.4	542.1	544.5	545.1	548.2	550.0	549.3
37.5°	364.2	463.8	519.0	522.6	526.9	521.5	525.1	526.9	529.3	528.2	528.2
40°	321.7	426.8	499.0	501.5	505.1	500.8	504.4	505.7	506.9	505.7	505.1
42.5°	290.2	386.1	477.7	480.8	478.4	481.4	482.6	485.1	483.2	480.8	480.8
45°	265.8	375.2	454.7	458.3	454.7	459.6	461.4	461.4	455.9	454.7	454.0
47.5°	258.0	353.3	431.6	431.6	429.8	435.8	438.9	434.7	429.2	427.3	427.3
50°	257.4	329.0	400.1	397.6	406.1	413.4	410.4	406.1	401.9	395.2	395.2
52.5°	233.7	299.2	359.3	368.5	381.8	386.1	381.3	377.0	369.7	366.7	364.2
55°	216.7	268.3	322.3	340.5	354.6	360.0	350.8	346.6	335.7	333.9	332.6
57.5°	213.1	223.4	288.4	311.4	328.4	327.8	322.3	314.5	305.3	303.5	303.0
60°	195.5	161.5	251.9	279.2	296.8	295.0	290.2	282.9	274.4	273.2	272.0
62.5°	177.2	117.1	210.6	241.6	266.5	265.8	261.7	250.7	244.7	241.6	239.1
65°	150.5	98.3	150.0	200.9	236.8	238.0	228.8	220.9	214.3	210.6	210.0
67.5°	114.8	80.1	101.4	167.5	208.2	207.0	195.5	191.8	183.3	181.5	177.9
70°	85.0	53.4	70.4	136.0	180.3	177.2	168.2	163.9	156.0	151.8	149.4
72.5°	70.4	43.1	51.6	105.6	151.8	148.1	140.2	135.4	128.7	125.1	122.6
75°	57.0	45.5	39.5	78.3	123.2	120.8	113.5	108.6	103.2	98.3	98.9
77.5°	41.9	42.5	31.6	57.7	97.8	94.1	89.9	83.8	81.4	76.5	76.5
80°	31.6	33.4	23.7	39.5	70.4	70.4	66.8	62.5	58.3	55.8	55.8
82.5°	21.3	21.3	17.6	24.9	48.0	46.2	43.7	42.5	40.1	38.8	38.8
85°	9.7	12.1	11.0	15.2	26.1	27.3	27.3	26.1	25.5	24.3	24.9
87.5°	3.1	5.4	6.7	8.5	13.4	13.9	14.6	14.6	14.6	15.2	15.2
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



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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



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	658.1	656.2	658.1	656.8	657.4	655.6	650.2	648.4	650.2	652.0	652.0
5°	665.9	664.8	665.9	665.9	665.3	664.1	658.1	656.8	658.1	658.7	657.4
7.5°	668.4	666.6	668.4	667.1	667.1	665.9	659.9	658.7	659.2	661.0	659.2
10°	668.4	666.6	668.4	667.7	667.1	665.9	659.9	657.4	657.4	659.2	657.4
12.5°	665.3	664.1	665.3	664.1	664.1	662.9	656.8	654.4	655.0	655.6	653.2
15°	660.5	658.7	660.5	659.2	659.9	658.1	651.4	648.9	648.9	650.2	645.9
17.5°	653.2	650.7	653.2	652.6	652.0	650.7	644.7	642.3	641.7	642.3	639.2
20°	644.7	642.8	644.7	644.1	644.1	641.7	635.6	632.5	632.5	632.5	629.5
22.5°	631.3	629.5	631.3	632.5	632.5	631.9	626.5	622.2	621.0	621.0	617.4
25°	616.1	614.3	616.1	616.1	615.5	616.1	614.3	611.9	610.1	608.3	604.6
27.5°	601.6	600.4	601.6	600.4	601.6	599.8	599.1	598.6	596.1	594.3	589.4
30°	587.0	585.8	587.0	585.8	584.6	583.4	580.3	579.1	581.6	580.3	572.4
32.5°	568.8	567.6	568.8	568.8	567.6	567.6	562.7	560.9	561.6	565.2	557.9
35°	550.0	548.2	550.0	549.3	550.0	548.2	545.1	544.5	542.1	546.4	540.9
37.5°	528.2	526.4	528.2	528.2	528.2	529.3	526.9	525.1	521.5	526.9	522.6
40°	505.7	503.3	505.7	505.1	505.7	506.9	505.7	504.4	500.8	505.1	501.5
42.5°	480.2	479.6	480.2	480.8	480.8	483.2	485.1	482.6	481.4	478.4	480.8
45°	452.9	451.7	452.9	454.0	454.7	455.9	461.4	461.4	459.6	454.7	458.3
47.5°	423.7	420.7	423.7	427.3	427.3	429.2	434.7	438.9	435.8	429.8	431.6
50°	392.7	393.4	392.7	395.2	395.2	401.9	406.1	410.4	413.4	406.1	397.6
52.5°	362.4	361.8	362.4	364.2	366.7	369.7	377.0	381.3	386.1	381.8	368.5
55°	332.0	333.3	332.0	332.6	333.9	335.7	346.6	350.8	360.0	354.6	340.5
57.5°	301.7	299.9	301.7	303.0	303.5	305.3	314.5	322.3	327.8	328.4	311.4
60°	266.5	264.0	266.5	272.0	273.2	274.4	282.9	290.2	295.0	296.8	279.2
62.5°	235.5	231.3	235.5	239.1	241.6	244.7	250.7	261.7	265.8	266.5	241.6
65°	202.8	200.9	202.8	210.0	210.6	214.3	220.9	228.8	238.0	236.8	200.9
67.5°	173.0	173.0	173.0	177.9	181.5	183.3	191.8	195.5	207.0	208.2	167.5
70°	145.7	145.1	145.7	149.4	151.8	156.0	163.9	168.2	177.2	180.3	136.0
72.5°	119.6	118.9	119.6	122.6	125.1	128.7	135.4	140.2	148.1	151.8	105.6
75°	96.5	95.3	96.5	98.9	98.3	103.2	108.6	113.5	120.8	123.2	78.3
77.5°	74.0	74.0	74.0	76.5	76.5	81.4	83.8	89.9	94.1	97.8	57.7
80°	55.2	54.7	55.2	55.8	55.8	58.3	62.5	66.8	70.4	70.4	39.5
82.5°	38.8	37.7	38.8	38.8	38.8	40.1	42.5	43.7	46.2	48.0	24.9
85°	24.3	24.3	24.3	24.9	24.3	25.5	26.1	27.3	27.3	26.1	15.2
87.5°	15.7	15.2	15.7	15.2	15.2	14.6	14.6	14.6	13.9	13.4	8.5
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: P935059

CATALOG NUMBER: SQ4-FA-100U-050D-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: P935059

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	650.7	647.1	647.1	641.0	638.6	636.8	633.8	624.7	622.2	619.8	623.5
5°	656.2	649.5	644.7	633.8	624.7	621.0	609.4	587.6	573.1	562.1	556.0
7.5°	657.4	648.9	639.9	622.8	600.9	591.3	556.0	516.0	505.1	495.4	489.2
10°	656.2	646.5	633.8	608.3	556.7	539.7	504.4	478.4	471.7	469.9	471.7
12.5°	652.0	642.8	625.3	582.7	510.5	499.0	478.4	463.2	462.0	465.0	481.4
15°	644.7	636.1	615.5	548.8	485.1	476.6	462.0	456.5	463.2	484.4	533.6
17.5°	637.4	627.7	602.2	515.4	465.6	459.6	449.2	460.2	497.7	526.4	542.7
20°	627.7	616.1	587.0	491.1	451.7	446.2	441.4	490.5	519.0	529.3	538.5
22.5°	616.1	604.0	566.4	474.1	437.1	432.8	435.8	507.5	519.0	526.4	534.2
25°	600.9	590.6	542.1	460.7	425.5	420.7	432.2	505.7	512.3	514.1	530.0
27.5°	587.0	573.7	516.6	448.6	411.6	409.8	435.3	497.7	502.6	504.4	521.5
30°	570.0	550.0	488.1	435.8	397.0	396.4	435.8	488.1	486.9	491.7	508.7
32.5°	552.4	514.8	455.9	420.1	383.1	382.4	431.6	473.5	472.3	478.9	491.7
35°	536.0	487.4	412.2	401.9	365.4	366.0	421.3	456.5	457.1	463.2	471.0
37.5°	519.0	463.8	364.2	381.8	348.5	348.5	407.3	440.7	439.5	441.4	452.2
40°	499.0	426.8	321.7	355.7	332.6	330.8	390.3	423.7	419.5	418.9	434.0
42.5°	477.7	386.1	290.2	321.2	314.5	312.0	369.7	403.1	395.2	397.0	416.5
45°	454.7	375.2	265.8	271.4	295.6	293.8	347.2	379.4	373.9	378.8	398.8
47.5°	431.6	353.3	258.0	225.2	275.6	275.0	322.3	356.4	353.3	358.2	379.4
50°	400.1	329.0	257.4	193.1	253.2	255.5	292.6	333.9	333.9	338.2	360.6
52.5°	359.3	299.2	233.7	174.8	227.0	234.3	266.5	314.5	315.6	319.9	340.0
55°	322.3	268.3	216.7	160.8	196.1	211.9	241.0	294.4	296.8	301.1	319.3
57.5°	288.4	223.4	213.1	144.5	167.5	182.8	218.5	275.0	276.2	279.9	297.4
60°	251.9	161.5	195.5	126.9	142.7	154.1	197.9	251.9	256.2	258.6	273.8
62.5°	210.6	117.1	177.2	114.8	130.5	133.0	180.9	230.1	235.5	237.3	246.5
65°	150.0	98.3	150.5	104.5	117.8	118.4	162.7	207.6	212.4	215.5	222.2
67.5°	101.4	80.1	114.8	94.7	108.1	108.6	145.1	181.5	188.2	190.6	194.9
70°	70.4	53.4	85.0	84.4	97.1	98.3	126.3	157.9	163.9	165.7	168.2
72.5°	51.6	43.1	70.4	75.9	85.6	86.8	106.8	131.2	137.2	139.0	140.2
75°	39.5	45.5	57.0	66.2	72.9	73.4	87.4	106.8	111.1	112.3	112.9
77.5°	31.6	42.5	41.9	53.4	59.5	58.3	68.6	82.6	86.2	86.2	86.2
80°	23.7	33.4	31.6	38.3	43.7	42.5	49.2	58.9	60.1	61.3	60.7
82.5°	17.6	21.3	21.3	24.3	29.1	28.0	32.8	38.3	38.3	38.3	39.5
85°	11.0	12.1	9.7	12.8	16.4	15.7	18.2	20.6	21.3	21.3	20.0
87.5°	6.7	5.4	3.1	4.9	7.2	7.2	8.5	9.1	8.5	8.5	8.5
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: P935059

CATALOG NUMBER: SQ4-FA-100U-050D-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: P935059

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	619.2	617.4	619.8	613.2	619.8	617.4	619.2	623.5	619.8	622.2	624.7
5°	543.3	540.3	530.6	522.6	530.6	540.3	543.3	556.0	562.1	573.1	587.6
7.5°	485.6	483.2	480.8	475.9	480.8	483.2	485.6	489.2	495.4	505.1	516.0
10°	472.9	473.5	477.1	476.6	477.1	473.5	472.9	471.7	469.9	471.7	478.4
12.5°	505.7	511.1	531.1	530.0	531.1	511.1	505.7	481.4	465.0	462.0	463.2
15°	543.3	545.1	549.3	550.0	549.3	545.1	543.3	533.6	484.4	463.2	456.5
17.5°	547.0	547.5	550.6	550.6	550.6	547.5	547.0	542.7	526.4	497.7	460.2
20°	543.9	545.1	551.2	552.4	551.2	545.1	543.9	538.5	529.3	519.0	490.5
22.5°	542.7	545.1	550.0	549.3	550.0	545.1	542.7	534.2	526.4	519.0	507.5
25°	536.7	536.7	537.2	537.8	537.2	536.7	536.7	530.0	514.1	512.3	505.7
27.5°	523.9	525.1	528.7	528.2	528.7	525.1	523.9	521.5	504.4	502.6	497.7
30°	512.3	511.1	508.1	505.7	508.1	511.1	512.3	508.7	491.7	486.9	488.1
32.5°	493.0	489.9	486.9	485.1	486.9	489.9	493.0	491.7	478.9	472.3	473.5
35°	469.9	470.5	469.9	468.1	469.9	470.5	469.9	471.0	463.2	457.1	456.5
37.5°	453.5	454.7	454.0	451.7	454.0	454.7	453.5	452.2	441.4	439.5	440.7
40°	436.5	437.1	436.5	434.7	436.5	437.1	436.5	434.0	418.9	419.5	423.7
42.5°	420.1	419.5	417.6	416.5	417.6	419.5	420.1	416.5	397.0	395.2	403.1
45°	401.3	401.9	398.2	396.4	398.2	401.9	401.3	398.8	378.8	373.9	379.4
47.5°	382.4	382.4	379.4	377.5	379.4	382.4	382.4	379.4	358.2	353.3	356.4
50°	362.4	361.8	357.5	356.9	357.5	361.8	362.4	360.6	338.2	333.9	333.9
52.5°	339.3	339.3	340.0	341.2	340.0	339.3	339.3	340.0	319.9	315.6	314.5
55°	319.3	319.9	324.1	325.4	324.1	319.9	319.3	319.3	301.1	296.8	294.4
57.5°	298.7	298.7	301.7	301.7	301.7	298.7	298.7	297.4	279.9	276.2	275.0
60°	275.0	276.2	278.6	278.1	278.6	276.2	275.0	273.8	258.6	256.2	251.9
62.5°	250.1	251.4	251.9	250.7	251.9	251.4	250.1	246.5	237.3	235.5	230.1
65°	224.0	225.2	225.8	224.6	225.8	225.2	224.0	222.2	215.5	212.4	207.6
67.5°	197.3	196.7	196.1	198.5	196.1	196.7	197.3	194.9	190.6	188.2	181.5
70°	170.0	170.0	169.4	170.6	169.4	170.0	170.0	168.2	165.7	163.9	157.9
72.5°	140.8	140.2	142.7	140.8	142.7	140.2	140.8	140.2	139.0	137.2	131.2
75°	112.3	113.5	112.3	114.1	112.3	113.5	112.3	112.9	112.3	111.1	106.8
77.5°	85.6	86.8	85.6	85.6	85.6	86.8	85.6	86.2	86.2	86.2	82.6
80°	60.7	60.1	60.1	59.5	60.1	60.1	60.7	60.7	61.3	60.1	58.9
82.5°	38.8	38.3	38.3	39.5	38.3	38.3	38.8	39.5	38.3	38.3	38.3
85°	21.3	21.8	20.6	20.6	20.6	21.8	21.3	20.0	21.3	21.3	20.6
87.5°	7.9	7.2	7.2	7.2	7.2	7.2	7.9	8.5	8.5	8.5	9.1
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: P935059

CATALOG NUMBER: SQ4-FA-100U-050D-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: P935059

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	641.7	641.7	641.7	641.7	641.7
2.5°	633.8	636.8	638.6	641.0	647.1
5°	609.4	621.0	624.7	633.8	644.7
7.5°	556.0	591.3	600.9	622.8	639.9
10°	504.4	539.7	556.7	608.3	633.8
12.5°	478.4	499.0	510.5	582.7	625.3
15°	462.0	476.6	485.1	548.8	615.5
17.5°	449.2	459.6	465.6	515.4	602.2
20°	441.4	446.2	451.7	491.1	587.0
22.5°	435.8	432.8	437.1	474.1	566.4
25°	432.2	420.7	425.5	460.7	542.1
27.5°	435.3	409.8	411.6	448.6	516.6
30°	435.8	396.4	397.0	435.8	488.1
32.5°	431.6	382.4	383.1	420.1	455.9
35°	421.3	366.0	365.4	401.9	412.2
37.5°	407.3	348.5	348.5	381.8	364.2
40°	390.3	330.8	332.6	355.7	321.7
42.5°	369.7	312.0	314.5	321.2	290.2
45°	347.2	293.8	295.6	271.4	265.8
47.5°	322.3	275.0	275.6	225.2	258.0
50°	292.6	255.5	253.2	193.1	257.4
52.5°	266.5	234.3	227.0	174.8	233.7
55°	241.0	211.9	196.1	160.8	216.7
57.5°	218.5	182.8	167.5	144.5	213.1
60°	197.9	154.1	142.7	126.9	195.5
62.5°	180.9	133.0	130.5	114.8	177.2
65°	162.7	118.4	117.8	104.5	150.5
67.5°	145.1	108.6	108.1	94.7	114.8
70°	126.3	98.3	97.1	84.4	85.0
72.5°	106.8	86.8	85.6	75.9	70.4
75°	87.4	73.4	72.9	66.2	57.0
77.5°	68.6	58.3	59.5	53.4	41.9
80°	49.2	42.5	43.7	38.3	31.6
82.5°	32.8	28.0	29.1	24.3	21.3
85°	18.2	15.7	16.4	12.8	9.7
87.5°	8.5	7.2	7.2	4.9	3.1
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: P935059

CATALOG NUMBER: SQ4-FA-100U-050D-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: P935059

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	8.97	9.68	10.07	10.78	12.30	11.77	12.48	12.87	13.58	15.10
	3H	9.43	10.07	10.54	11.18	12.71	13.09	13.73	14.20	14.84	16.37
	4H	9.62	10.23	10.74	11.33	12.87	13.52	14.13	14.64	15.24	16.77
	6H	9.73	10.29	10.86	11.40	12.95	13.79	14.35	14.92	15.46	17.01
	8H	9.73	10.26	10.86	11.39	12.93	13.86	14.39	14.99	15.52	17.06
	12H	9.69	10.20	10.83	11.32	12.88	13.89	14.39	15.02	15.51	17.08
4H	2H	9.97	10.58	11.10	11.69	13.23	12.16	12.77	13.29	13.88	15.41
	3H	10.99	11.49	12.12	12.63	14.18	13.64	14.15	14.78	15.28	16.83
	4H	11.26	11.72	12.39	12.85	14.42	14.16	14.62	15.29	15.75	17.31
	6H	11.37	11.77	12.52	12.92	14.48	14.50	14.90	15.65	16.05	17.61
	8H	11.38	11.75	12.52	12.89	14.46	14.60	14.98	15.75	16.11	17.69
	12H	11.34	11.68	12.50	12.82	14.41	14.65	14.99	15.81	16.14	17.72
8H	4H	11.69	12.07	12.84	13.20	14.78	14.27	14.64	15.41	15.78	17.36
	6H	11.95	12.26	13.11	13.44	15.01	14.69	15.00	15.86	16.18	17.75
	8H	11.99	12.26	13.16	13.42	15.01	14.84	15.11	16.01	16.26	17.86
	12H	11.97	12.20	13.14	13.36	14.99	14.92	15.16	16.10	16.32	17.94
12H	4H	11.69	12.03	12.85	13.18	14.76	14.23	14.56	15.39	15.71	17.30
	6H	12.01	12.28	13.18	13.44	15.03	14.69	14.96	15.86	16.12	17.71
	8H	12.07	12.30	13.24	13.46	15.09	14.84	15.07	16.01	16.23	17.86