

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: P934659

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934659
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-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: -

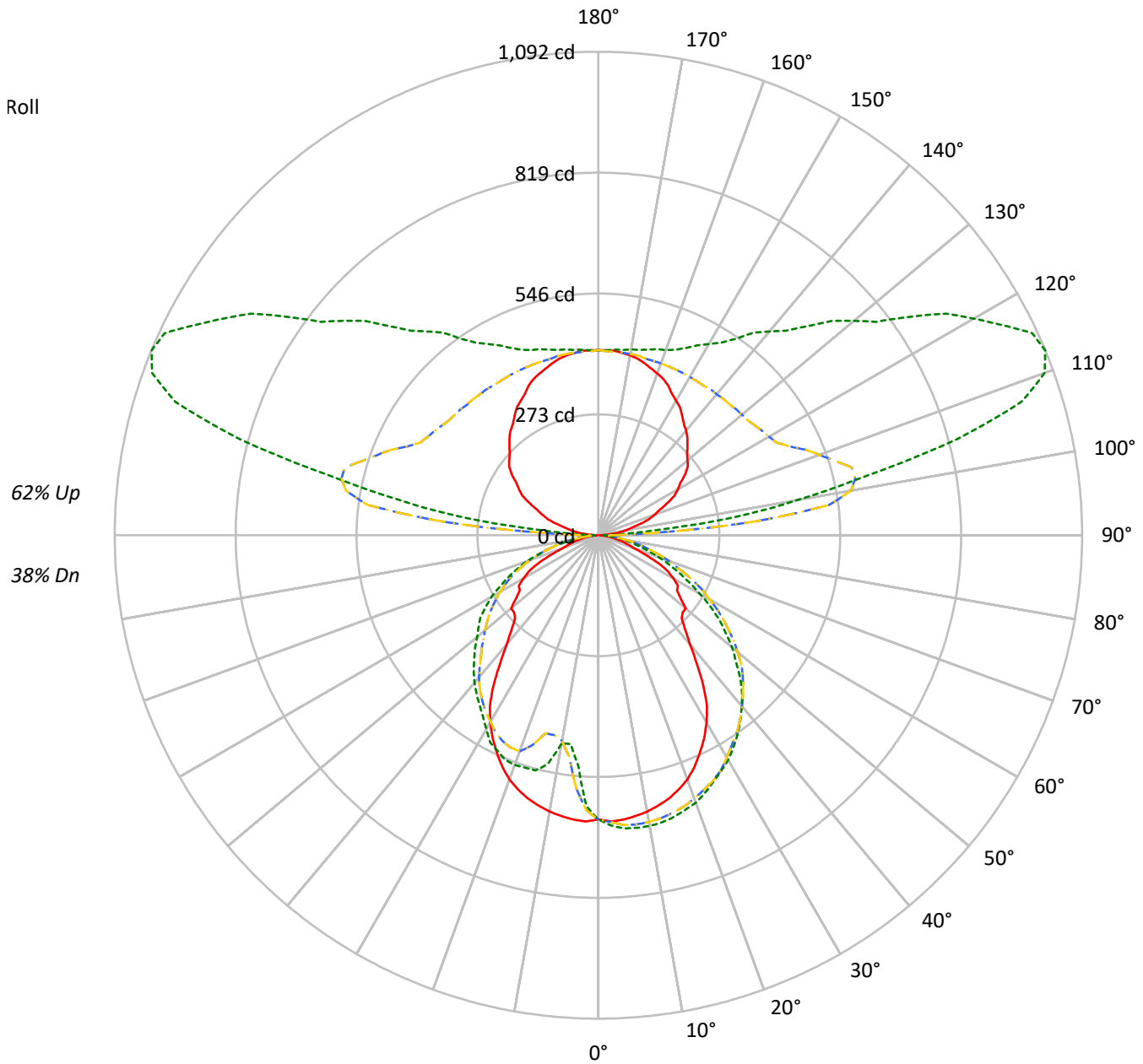
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4375.6 lumens
Efficiency: N/A
Efficacy: 127.2 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): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934659
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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				

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	1.3
10°-20°	164.5	3.8
20°-30°	254.2	5.8
30°-40°	303.5	6.9
40°-50°	305.3	7.0
50°-60°	265.6	6.1
60°-70°	188.3	4.3
70°-80°	99.6	2.3
80°-90°	26.4	0.6
90°-100°	203.8	4.7
100°-110°	535.8	12.2
110°-120°	555.6	12.7
120°-130°	445.6	10.2
130°-140°	349.7	8.0
140°-150°	268.4	6.1
150°-160°	193.3	4.4
160°-170°	118.3	2.7
170°-180°	40.0	0.9
0°-30°	476.6	10.9
0°-40°	780.1	17.8
0°-60°	1350.9	30.9
0°-90°	1665.3	38.1
90°-120°	1295.2	29.6
90°-150°	2358.8	53.9
90°-180°	2710.0	61.9
0°-180°	4375.6	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°	3	11	3	11	3	3
95°	27	123	27	123	27	30
105°	96	839	96	839	96	102
115°	171	1080	171	1080	171	169
125°	238	860	238	860	238	212
135°	284	668	284	668	284	220
145°	330	542	330	542	330	207
155°	373	466	373	466	373	171
165°	402	434	402	434	402	113
175°	418	421	418	421	418	40
180°	418	418	418	418	418	



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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°	2.8	5.1	7.3	7.9	12.4	18.4	21.4	19.0	14.2	10.7	10.7
92.5°	11.2	30.3	49.3	54.1	76.1	105.5	120.1	105.3	75.6	53.3	51.2
95°	27.0	61.9	96.9	105.5	187.4	296.4	351.0	313.2	237.6	180.9	174.5
97.5°	46.6	77.4	108.2	115.9	252.4	434.3	525.3	501.4	453.7	417.8	405.6
100°	61.7	89.6	117.6	124.6	276.0	477.9	578.9	580.6	584.1	586.7	572.2
102.5°	74.7	100.7	126.7	133.2	286.8	491.7	594.1	624.5	685.3	730.9	718.4
105°	96.5	118.6	140.7	146.2	294.9	493.2	592.3	660.6	797.0	899.3	892.6
107.5°	118.9	139.6	160.1	165.3	296.4	471.2	558.7	653.8	844.1	986.8	988.4
110°	134.1	152.7	171.3	176.0	294.2	451.8	530.6	637.0	849.7	1009.3	1016.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.0	166.7	184.4	188.8	294.3	434.8	505.1	614.0	831.7	995.0	1005.7
115°	171.4	187.7	204.1	208.2	297.0	415.3	474.5	579.4	789.1	946.4	961.3
117.5°	193.6	208.5	223.3	227.0	302.5	403.1	453.4	548.1	737.3	879.4	895.8
120°	206.6	220.5	234.4	238.0	306.9	399.0	445.0	531.5	704.5	834.2	850.2
122.5°	219.1	233.3	247.3	250.8	313.4	396.8	438.6	516.4	672.2	789.0	804.9
125°	238.5	251.4	264.2	267.4	322.1	395.1	431.6	497.7	630.1	729.3	743.9
127.5°	254.3	267.2	280.1	283.4	330.8	394.1	425.7	482.5	596.1	681.3	693.6
130°	262.7	276.6	290.6	294.1	337.2	394.7	423.4	474.0	575.1	651.0	662.3
132.5°	271.4	285.3	299.2	302.8	342.3	395.1	421.4	466.7	557.3	625.2	635.3
135°	284.2	296.9	309.7	312.8	347.9	394.7	418.1	456.0	531.9	588.7	597.5
137.5°	297.4	310.0	322.6	325.8	356.4	397.2	417.6	449.6	513.7	561.7	568.9
140°	308.4	320.0	331.6	334.5	361.5	397.5	415.6	443.3	498.6	540.1	546.8
142.5°	316.8	327.5	338.2	340.9	365.8	399.0	415.6	439.9	488.5	525.0	530.8
145°	329.7	339.1	348.4	350.7	371.4	399.0	412.8	432.7	472.4	502.3	506.6
147.5°	342.6	351.7	360.8	363.1	379.6	401.7	412.8	428.4	459.7	483.2	486.8
150°	351.0	359.3	367.5	369.6	384.0	403.2	412.8	426.0	452.4	472.2	475.1
152.5°	359.7	366.0	372.2	373.7	386.8	404.1	412.8	424.1	446.6	463.5	465.7
155°	372.7	377.3	381.8	383.0	392.9	406.1	412.8	421.7	439.6	453.1	454.6
157.5°	382.2	386.7	391.2	392.3	399.1	408.2	412.8	419.7	433.7	444.2	445.2
160°	388.6	392.1	395.6	396.5	401.9	409.1	412.8	418.7	430.8	439.7	440.3
162.5°	395.1	397.7	400.4	401.0	404.9	410.1	412.8	417.8	427.9	435.5	436.0
165°	402.1	404.4	406.8	407.4	409.2	411.6	412.8	416.4	423.6	429.0	429.7
167.5°	408.5	409.6	410.8	411.0	412.6	414.6	415.6	417.9	422.7	426.2	426.5
170°	412.8	413.8	415.0	415.3	415.4	415.5	415.6	417.9	422.7	426.2	426.2
172.5°	415.0	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2	424.0	423.8
175°	418.1	418.1	418.1	418.1	417.3	416.1	415.6	416.7	419.1	420.9	420.9
177.5°	418.1	418.1	418.1	418.1	417.5	416.6	416.1	417.0	418.9	420.4	420.1
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



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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°	10.7	10.7	10.7	10.7	10.7	14.2	19.0	21.4	18.4	12.4	7.9
92.5°	42.7	34.2	42.7	51.2	53.3	75.6	105.3	120.1	105.5	76.1	54.1
95°	148.9	123.2	148.9	174.5	180.9	237.6	313.2	351.0	296.4	187.4	105.5
97.5°	356.7	307.8	356.7	405.6	417.8	453.7	501.4	525.3	434.3	252.4	115.9
100°	514.0	455.7	514.0	572.2	586.7	584.1	580.6	578.9	477.9	276.0	124.6
102.5°	668.6	618.7	668.6	718.4	730.9	685.3	624.5	594.1	491.7	286.8	133.2
105°	865.8	839.0	865.8	892.6	899.3	797.0	660.6	592.3	493.2	294.9	146.2
107.5°	995.0	1001.5	995.0	988.4	986.8	844.1	653.8	558.7	471.2	296.4	165.3
110°	1044.2	1072.2	1044.2	1016.2	1009.3	849.7	637.0	530.6	451.8	294.2	176.0



TEST NUMBER: P934659

CATALOG NUMBER: SQ4-FA-075U-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°	1048.6	1091.5	1048.6	1005.7	995.0	831.7	614.0	505.1	434.8	294.3	188.8
115°	1020.8	1080.3	1020.8	961.3	946.4	789.1	579.4	474.5	415.3	297.0	208.2
117.5°	961.8	1027.8	961.8	895.8	879.4	737.3	548.1	453.4	403.1	302.5	227.0
120°	914.3	978.4	914.3	850.2	834.2	704.5	531.5	445.0	399.0	306.9	238.0
122.5°	868.0	931.3	868.0	804.9	789.0	672.2	516.4	438.6	396.8	313.4	250.8
125°	802.1	860.3	802.1	743.9	729.3	630.1	497.7	431.6	395.1	322.1	267.4
127.5°	742.7	791.8	742.7	693.6	681.3	596.1	482.5	425.7	394.1	330.8	283.4
130°	707.7	753.1	707.7	662.3	651.0	575.1	474.0	423.4	394.7	337.2	294.1
132.5°	676.0	716.6	676.0	635.3	625.2	557.3	466.7	421.4	395.1	342.3	302.8
135°	632.5	667.6	632.5	597.5	588.7	531.9	456.0	418.1	394.7	347.9	312.8
137.5°	597.6	626.3	597.6	568.9	561.7	513.7	449.6	417.6	397.2	356.4	325.8
140°	573.7	600.5	573.7	546.8	540.1	498.6	443.3	415.6	397.5	361.5	334.5
142.5°	553.8	576.9	553.8	530.8	525.0	488.5	439.9	415.6	399.0	365.8	340.9
145°	524.1	541.6	524.1	506.6	502.3	472.4	432.7	412.8	399.0	371.4	350.7
147.5°	501.3	515.8	501.3	486.8	483.2	459.7	428.4	412.8	401.7	379.6	363.1
150°	486.9	498.7	486.9	475.1	472.2	452.4	426.0	412.8	403.2	384.0	369.6
152.5°	474.6	483.4	474.6	465.7	463.5	446.6	424.1	412.8	404.1	386.8	373.7
155°	460.5	466.3	460.5	454.6	453.1	439.6	421.7	412.8	406.1	392.9	383.0
157.5°	449.3	453.4	449.3	445.2	444.2	433.7	419.7	412.8	408.2	399.1	392.3
160°	442.6	445.0	442.6	440.3	439.7	430.8	418.7	412.8	409.1	401.9	396.5
162.5°	438.3	440.5	438.3	436.0	435.5	427.9	417.8	412.8	410.1	404.9	401.0
165°	432.0	434.4	432.0	429.7	429.0	423.6	416.4	412.8	411.6	409.2	407.4
167.5°	427.5	428.5	427.5	426.5	426.2	422.7	417.9	415.6	414.6	412.6	411.0
170°	426.2	426.2	426.2	426.2	426.2	422.7	417.9	415.6	415.5	415.4	415.3
172.5°	422.9	422.0	422.9	423.8	424.0	421.2	417.5	415.6	415.6	415.6	415.6
175°	420.9	420.9	420.9	420.9	420.9	419.1	416.7	415.6	416.1	417.3	418.1
177.5°	419.1	418.1	419.1	420.1	420.4	418.9	417.0	416.1	416.6	417.5	418.1
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934659

CATALOG NUMBER: SQ4-FA-075U-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°	7.3	5.1	2.8	5.1	7.3	7.9	12.4	18.4	21.4	19.0	14.2
92.5°	49.3	30.3	11.2	30.3	49.3	54.1	76.1	105.5	120.1	105.3	75.6
95°	96.9	61.9	27.0	61.9	96.9	105.5	187.4	296.4	351.0	313.2	237.6
97.5°	108.2	77.4	46.6	77.4	108.2	115.9	252.4	434.3	525.3	501.4	453.7
100°	117.6	89.6	61.7	89.6	117.6	124.6	276.0	477.9	578.9	580.6	584.1
102.5°	126.7	100.7	74.7	100.7	126.7	133.2	286.8	491.7	594.1	624.5	685.3
105°	140.7	118.6	96.5	118.6	140.7	146.2	294.9	493.2	592.3	660.6	797.0
107.5°	160.1	139.6	118.9	139.6	160.1	165.3	296.4	471.2	558.7	653.8	844.1
110°	171.3	152.7	134.1	152.7	171.3	176.0	294.2	451.8	530.6	637.0	849.7



TEST NUMBER: P934659

CATALOG NUMBER: SQ4-FA-075U-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°	184.4	166.7	149.0	166.7	184.4	188.8	294.3	434.8	505.1	614.0	831.7
115°	204.1	187.7	171.4	187.7	204.1	208.2	297.0	415.3	474.5	579.4	789.1
117.5°	223.3	208.5	193.6	208.5	223.3	227.0	302.5	403.1	453.4	548.1	737.3
120°	234.4	220.5	206.6	220.5	234.4	238.0	306.9	399.0	445.0	531.5	704.5
122.5°	247.3	233.3	219.1	233.3	247.3	250.8	313.4	396.8	438.6	516.4	672.2
125°	264.2	251.4	238.5	251.4	264.2	267.4	322.1	395.1	431.6	497.7	630.1
127.5°	280.1	267.2	254.3	267.2	280.1	283.4	330.8	394.1	425.7	482.5	596.1
130°	290.6	276.6	262.7	276.6	290.6	294.1	337.2	394.7	423.4	474.0	575.1
132.5°	299.2	285.3	271.4	285.3	299.2	302.8	342.3	395.1	421.4	466.7	557.3
135°	309.7	296.9	284.2	296.9	309.7	312.8	347.9	394.7	418.1	456.0	531.9
137.5°	322.6	310.0	297.4	310.0	322.6	325.8	356.4	397.2	417.6	449.6	513.7
140°	331.6	320.0	308.4	320.0	331.6	334.5	361.5	397.5	415.6	443.3	498.6
142.5°	338.2	327.5	316.8	327.5	338.2	340.9	365.8	399.0	415.6	439.9	488.5
145°	348.4	339.1	329.7	339.1	348.4	350.7	371.4	399.0	412.8	432.7	472.4
147.5°	360.8	351.7	342.6	351.7	360.8	363.1	379.6	401.7	412.8	428.4	459.7
150°	367.5	359.3	351.0	359.3	367.5	369.6	384.0	403.2	412.8	426.0	452.4
152.5°	372.2	366.0	359.7	366.0	372.2	373.7	386.8	404.1	412.8	424.1	446.6
155°	381.8	377.3	372.7	377.3	381.8	383.0	392.9	406.1	412.8	421.7	439.6
157.5°	391.2	386.7	382.2	386.7	391.2	392.3	399.1	408.2	412.8	419.7	433.7
160°	395.6	392.1	388.6	392.1	395.6	396.5	401.9	409.1	412.8	418.7	430.8
162.5°	400.4	397.7	395.1	397.7	400.4	401.0	404.9	410.1	412.8	417.8	427.9
165°	406.8	404.4	402.1	404.4	406.8	407.4	409.2	411.6	412.8	416.4	423.6
167.5°	410.8	409.6	408.5	409.6	410.8	411.0	412.6	414.6	415.6	417.9	422.7
170°	415.0	413.8	412.8	413.8	415.0	415.3	415.4	415.5	415.6	417.9	422.7
172.5°	415.5	415.3	415.0	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2
175°	418.1	418.1	418.1	418.1	418.1	418.1	417.3	416.1	415.6	416.7	419.1
177.5°	418.1	418.1	418.1	418.1	418.1	418.1	417.5	416.6	416.1	417.0	418.9
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934659

CATALOG NUMBER: SQ4-FA-075U-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°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.2	19.0	21.4	18.4
92.5°	53.3	51.2	42.7	34.2	42.7	51.2	53.3	75.6	105.3	120.1	105.5
95°	180.9	174.5	148.9	123.2	148.9	174.5	180.9	237.6	313.2	351.0	296.4
97.5°	417.8	405.6	356.7	307.8	356.7	405.6	417.8	453.7	501.4	525.3	434.3
100°	586.7	572.2	514.0	455.7	514.0	572.2	586.7	584.1	580.6	578.9	477.9
102.5°	730.9	718.4	668.6	618.7	668.6	718.4	730.9	685.3	624.5	594.1	491.7
105°	899.3	892.6	865.8	839.0	865.8	892.6	899.3	797.0	660.6	592.3	493.2
107.5°	986.8	988.4	995.0	1001.5	995.0	988.4	986.8	844.1	653.8	558.7	471.2
110°	1009.3	1016.2	1044.2	1072.2	1044.2	1016.2	1009.3	849.7	637.0	530.6	451.8



TEST NUMBER: P934659

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	995.0	1005.7	1048.6	1091.5	1048.6	1005.7	995.0	831.7	614.0	505.1	434.8
115°	946.4	961.3	1020.8	1080.3	1020.8	961.3	946.4	789.1	579.4	474.5	415.3
117.5°	879.4	895.8	961.8	1027.8	961.8	895.8	879.4	737.3	548.1	453.4	403.1
120°	834.2	850.2	914.3	978.4	914.3	850.2	834.2	704.5	531.5	445.0	399.0
122.5°	789.0	804.9	868.0	931.3	868.0	804.9	789.0	672.2	516.4	438.6	396.8
125°	729.3	743.9	802.1	860.3	802.1	743.9	729.3	630.1	497.7	431.6	395.1
127.5°	681.3	693.6	742.7	791.8	742.7	693.6	681.3	596.1	482.5	425.7	394.1
130°	651.0	662.3	707.7	753.1	707.7	662.3	651.0	575.1	474.0	423.4	394.7
132.5°	625.2	635.3	676.0	716.6	676.0	635.3	625.2	557.3	466.7	421.4	395.1
135°	588.7	597.5	632.5	667.6	632.5	597.5	588.7	531.9	456.0	418.1	394.7
137.5°	561.7	568.9	597.6	626.3	597.6	568.9	561.7	513.7	449.6	417.6	397.2
140°	540.1	546.8	573.7	600.5	573.7	546.8	540.1	498.6	443.3	415.6	397.5
142.5°	525.0	530.8	553.8	576.9	553.8	530.8	525.0	488.5	439.9	415.6	399.0
145°	502.3	506.6	524.1	541.6	524.1	506.6	502.3	472.4	432.7	412.8	399.0
147.5°	483.2	486.8	501.3	515.8	501.3	486.8	483.2	459.7	428.4	412.8	401.7
150°	472.2	475.1	486.9	498.7	486.9	475.1	472.2	452.4	426.0	412.8	403.2
152.5°	463.5	465.7	474.6	483.4	474.6	465.7	463.5	446.6	424.1	412.8	404.1
155°	453.1	454.6	460.5	466.3	460.5	454.6	453.1	439.6	421.7	412.8	406.1
157.5°	444.2	445.2	449.3	453.4	449.3	445.2	444.2	433.7	419.7	412.8	408.2
160°	439.7	440.3	442.6	445.0	442.6	440.3	439.7	430.8	418.7	412.8	409.1
162.5°	435.5	436.0	438.3	440.5	438.3	436.0	435.5	427.9	417.8	412.8	410.1
165°	429.0	429.7	432.0	434.4	432.0	429.7	429.0	423.6	416.4	412.8	411.6
167.5°	426.2	426.5	427.5	428.5	427.5	426.5	426.2	422.7	417.9	415.6	414.6
170°	426.2	426.2	426.2	426.2	426.2	426.2	426.2	422.7	417.9	415.6	415.5
172.5°	424.0	423.8	422.9	422.0	422.9	423.8	424.0	421.2	417.5	415.6	415.6
175°	420.9	420.9	420.9	420.9	420.9	420.9	420.9	419.1	416.7	415.6	416.1
177.5°	420.4	420.1	419.1	418.1	419.1	420.1	420.4	418.9	417.0	416.1	416.6
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934659

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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°	12.4	7.9	7.3	5.1	2.8
92.5°	76.1	54.1	49.3	30.3	11.2
95°	187.4	105.5	96.9	61.9	27.0
97.5°	252.4	115.9	108.2	77.4	46.6
100°	276.0	124.6	117.6	89.6	61.7
102.5°	286.8	133.2	126.7	100.7	74.7
105°	294.9	146.2	140.7	118.6	96.5
107.5°	296.4	165.3	160.1	139.6	118.9
110°	294.2	176.0	171.3	152.7	134.1



TEST NUMBER: P934659

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	294.3	188.8	184.4	166.7	149.0
115°	297.0	208.2	204.1	187.7	171.4
117.5°	302.5	227.0	223.3	208.5	193.6
120°	306.9	238.0	234.4	220.5	206.6
122.5°	313.4	250.8	247.3	233.3	219.1
125°	322.1	267.4	264.2	251.4	238.5
127.5°	330.8	283.4	280.1	267.2	254.3
130°	337.2	294.1	290.6	276.6	262.7
132.5°	342.3	302.8	299.2	285.3	271.4
135°	347.9	312.8	309.7	296.9	284.2
137.5°	356.4	325.8	322.6	310.0	297.4
140°	361.5	334.5	331.6	320.0	308.4
142.5°	365.8	340.9	338.2	327.5	316.8
145°	371.4	350.7	348.4	339.1	329.7
147.5°	379.6	363.1	360.8	351.7	342.6
150°	384.0	369.6	367.5	359.3	351.0
152.5°	386.8	373.7	372.2	366.0	359.7
155°	392.9	383.0	381.8	377.3	372.7
157.5°	399.1	392.3	391.2	386.7	382.2
160°	401.9	396.5	395.6	392.1	388.6
162.5°	404.9	401.0	400.4	397.7	395.1
165°	409.2	407.4	406.8	404.4	402.1
167.5°	412.6	411.0	410.8	409.6	408.5
170°	415.4	415.3	415.0	413.8	412.8
172.5°	415.6	415.6	415.5	415.3	415.0
175°	417.3	418.1	418.1	418.1	418.1
177.5°	417.5	418.1	418.1	418.1	418.1
180°	418.1	418.1	418.1	418.1	418.1



TEST NUMBER: P934659
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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	9.78	10.54	10.83	11.60	13.03	12.57	13.34	13.63	14.40	15.83
	3H	10.25	10.93	11.31	12.00	13.45	13.90	14.59	14.97	15.65	17.10
	4H	10.43	11.08	11.51	12.15	13.61	14.33	14.98	15.41	16.05	17.51
	6H	10.55	11.14	11.63	12.21	13.68	14.61	15.20	15.69	16.27	17.74
	8H	10.54	11.11	11.63	12.20	13.66	14.67	15.24	15.76	16.33	17.79
	12H	10.51	11.05	11.61	12.13	13.62	14.70	15.24	15.80	16.33	17.81
4H	2H	10.79	11.44	11.87	12.50	13.96	12.97	13.62	14.05	14.69	16.15
	3H	11.81	12.35	12.89	13.44	14.91	14.46	15.00	15.55	16.09	17.56
	4H	12.08	12.57	13.17	13.66	15.15	14.98	15.47	16.07	16.56	18.05
	6H	12.20	12.62	13.30	13.73	15.22	15.33	15.75	16.43	16.86	18.35
	8H	12.20	12.60	13.30	13.70	15.20	15.43	15.82	16.53	16.92	18.43
	12H	12.16	12.52	13.28	13.64	15.14	15.47	15.83	16.59	16.95	18.45
8H	4H	12.52	12.92	13.62	14.02	15.52	15.09	15.49	16.20	16.59	18.09
	6H	12.78	13.10	13.90	14.25	15.74	15.52	15.85	16.64	16.99	18.49
	8H	12.82	13.10	13.95	14.23	15.75	15.66	15.95	16.79	17.07	18.59
	12H	12.80	13.05	13.93	14.17	15.72	15.75	16.00	16.89	17.12	18.68
12H	4H	12.52	12.88	13.64	13.99	15.50	15.05	15.41	16.17	16.53	18.03
	6H	12.83	13.12	13.96	14.25	15.76	15.51	15.80	16.64	16.93	18.44
	8H	12.90	13.15	14.03	14.27	15.82	15.67	15.92	16.80	17.04	18.59