

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: P935082

Luminaire Tested: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935082
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-B2750-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

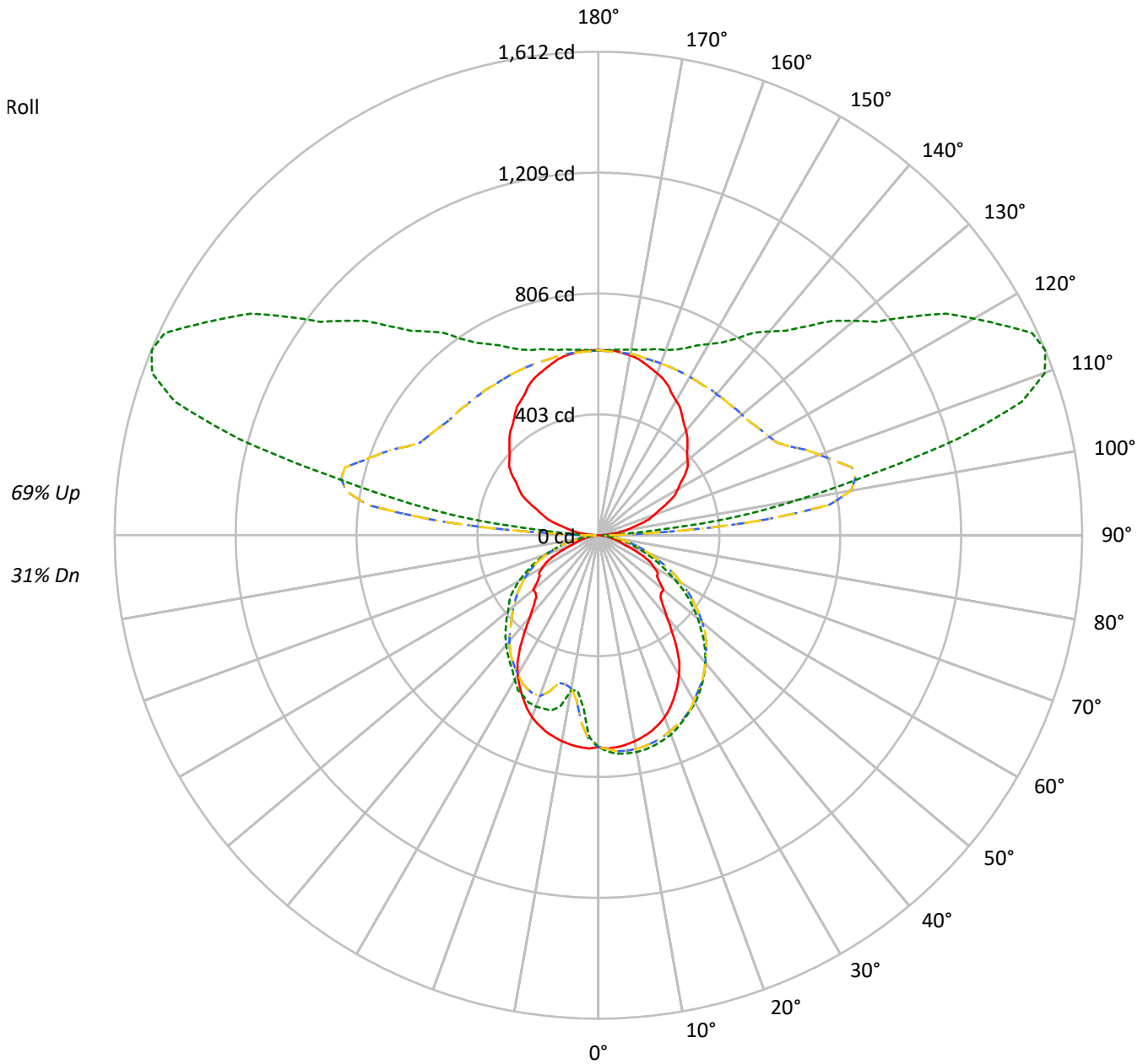
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5834.6 lumens
Efficiency: N/A
Efficacy: 141.6 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: P935082
CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-2700K

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	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°	6552	6552	6552	6552
5°	6593	6614	6593	5200
10°	6542	6515	6542	4658
15°	6463	6374	6463	5322
20°	6321	6206	6321	5333
25°	6037	5962	6037	5220
30°	5672	5760	5672	4973
35°	5050	5504	5050	4699
40°	4200	5203	4200	4494
45°	3745	4850	3745	4255
50°	3971	4429	3971	4018
55°	3724	3975	3724	3882
60°	3826	3375	3826	3555
65°	3451	2791	3451	3119
70°	2374	2225	2374	2615
75°	2056	1645	2056	1969
80°	1629	1088	1629	1182
85°	886	575	886	489

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.1
10°-20°	181.0	3.1
20°-30°	279.7	4.8
30°-40°	333.9	5.7
40°-50°	335.9	5.8
50°-60°	292.3	5.0
60°-70°	207.2	3.6
70°-80°	109.6	1.9
80°-90°	29.7	0.5
90°-100°	300.9	5.2
100°-110°	791.1	13.6
110°-120°	820.2	14.1
120°-130°	657.9	11.3
130°-140°	516.2	8.8
140°-150°	396.2	6.8
150°-160°	285.4	4.9
160°-170°	174.6	3.0
170°-180°	59.0	1.0
0°-30°	524.4	9.0
0°-40°	858.3	14.7
0°-60°	1486.5	25.5
0°-90°	1833.0	31.4
90°-120°	1912.2	32.8
90°-150°	3482.6	59.7
90°-180°	4002.0	68.6
0°-180°	5834.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	706	706	706	706	706	
5°	709	732	709	575	709	67
15°	677	725	677	605	677	191
25°	596	676	596	592	596	274
35°	454	603	454	515	454	281
45°	292	497	292	436	292	234
55°	238	367	238	358	238	219
65°	166	221	166	247	166	158
75°	63	105	63	126	63	66
85°	11	27	11	23	11	14
90°	4	16	4	16	4	4
95°	40	182	40	182	40	44
105°	142	1239	142	1239	142	151
115°	253	1595	253	1595	253	250
125°	352	1270	352	1270	352	313
135°	420	986	420	986	420	325
145°	487	800	487	800	487	305
155°	550	688	550	688	550	253
165°	594	641	594	641	594	168
175°	617	621	617	621	617	59
180°	617	617	617	617	617	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	712.0	712.0	716.0	717.4	717.4	715.4	713.4	715.4	721.4	723.4	722.7
5°	709.4	714.7	722.1	723.4	724.8	724.1	722.7	724.1	730.8	732.1	732.8
7.5°	704.1	714.0	723.4	725.4	727.4	725.4	724.8	726.1	732.8	734.1	734.1
10°	697.4	711.3	722.1	723.4	725.4	723.4	723.4	726.1	732.8	734.1	734.7
12.5°	688.0	707.4	717.4	718.7	721.4	720.7	720.1	722.7	729.5	730.8	730.8
15°	677.3	700.0	709.4	710.7	715.4	714.0	714.0	716.7	724.1	726.1	725.4
17.5°	662.6	690.7	701.4	703.4	706.8	706.1	706.8	709.4	716.0	717.4	718.1
20°	645.9	678.0	690.7	692.7	696.0	696.0	696.0	699.4	706.1	708.8	708.8
22.5°	623.2	664.6	678.0	679.4	683.4	683.4	684.7	689.3	695.3	696.0	696.0
25°	596.5	649.9	661.2	665.3	669.3	671.3	673.3	676.0	678.0	677.3	678.0
27.5°	568.4	631.3	645.9	648.6	654.0	656.0	658.7	659.3	659.9	661.9	660.6
30°	537.0	605.2	627.2	629.9	638.5	639.9	637.2	638.5	641.9	643.2	644.6
32.5°	501.7	566.4	607.9	613.8	621.9	617.9	617.2	619.2	624.6	624.6	625.9
35°	453.6	536.3	589.8	595.2	601.2	596.5	599.2	599.8	603.2	605.2	604.5
37.5°	400.8	510.4	571.1	575.1	579.8	573.8	577.8	579.8	582.5	581.2	581.2
40°	354.0	469.6	549.1	551.8	555.8	551.1	555.1	556.5	557.8	556.5	555.8
42.5°	319.3	424.8	525.7	529.1	526.4	529.7	531.1	533.8	531.7	529.1	529.1
45°	292.5	412.8	500.3	504.3	500.3	505.7	507.7	507.7	501.7	500.3	499.6
47.5°	283.9	388.7	474.9	474.9	472.9	479.6	483.0	478.3	472.3	470.2	470.2
50°	283.3	362.0	440.2	437.5	446.9	454.9	451.6	446.9	442.2	434.9	434.9
52.5°	257.2	329.3	395.4	405.5	420.1	424.8	419.5	414.8	406.8	403.5	400.8
55°	238.4	295.2	354.7	374.7	390.1	396.1	386.0	381.4	369.4	367.4	366.0
57.5°	234.5	245.8	317.3	342.6	361.3	360.8	354.7	346.0	336.0	334.0	333.4
60°	215.1	177.7	277.2	307.3	326.6	324.6	319.3	311.2	301.9	300.6	299.3
62.5°	195.0	128.9	231.8	265.8	293.2	292.5	287.9	275.9	269.2	265.8	263.1
65°	165.6	108.2	165.0	221.1	260.6	261.8	251.8	243.1	235.8	231.8	231.1
67.5°	126.3	88.1	111.6	184.4	229.1	227.8	215.1	211.1	201.7	199.7	195.7
70°	93.5	58.8	77.5	149.6	198.4	195.0	185.1	180.4	171.7	167.0	164.3
72.5°	77.5	47.4	56.8	116.2	167.0	162.9	154.3	149.0	141.6	137.6	135.0
75°	62.7	50.1	43.4	86.2	135.6	133.0	124.9	119.5	113.5	108.2	108.9
77.5°	46.1	46.7	34.8	63.4	107.6	103.6	98.9	92.2	89.5	84.2	84.2
80°	34.8	36.8	26.1	43.4	77.5	77.5	73.5	68.8	64.1	61.5	61.5
82.5°	23.4	23.4	19.3	27.4	52.8	50.8	48.1	46.7	44.1	42.7	42.7
85°	10.7	13.3	12.1	16.7	28.7	30.1	30.1	28.7	28.1	26.7	27.4
87.5°	3.4	6.0	7.4	9.4	14.7	15.3	16.0	16.0	16.0	16.7	16.7
90°	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0	15.7	15.7
92.5°	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6	78.7	75.6
95°	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9	267.2	257.8
97.5°	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7	616.8	598.8
100°	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3	866.2	844.7
102.5°	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8	1079.2	1060.7
105°	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7	1327.8	1317.9
107.5°	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3	1457.0	1459.4
110°	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6	1490.1	1500.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9	1469.0	1484.8
115°	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1	1397.4	1419.3
117.5°	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7	1298.4	1322.7
120°	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1	1231.7	1255.4
122.5°	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4	1164.9	1188.2
125°	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2	1076.7	1098.2
127.5°	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1	1005.9	1024.0
130°	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2	961.1	977.9
132.5°	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7	923.0	938.0
135°	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1	869.1	882.1
137.5°	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4	829.4	839.9
140°	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1	797.5	807.4
142.5°	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2	775.1	783.7
145°	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5	741.5	748.0
147.5°	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8	713.4	718.8
150°	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9	697.2	701.5
152.5°	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4	684.4	687.6
155°	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2	669.0	671.2
157.5°	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3	655.8	657.3
160°	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9	649.2	650.1
162.5°	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8	642.9	643.7
165°	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5	633.5	634.4
167.5°	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0	629.3	629.7
170°	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0	629.3	629.3
172.5°	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8	626.0	625.7
175°	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8	621.4	621.4
177.5°	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5	620.6	620.2
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	724.1	722.1	724.1	722.7	723.4	721.4	715.4	713.4	715.4	717.4	717.4
5°	732.8	731.5	732.8	732.8	732.1	730.8	724.1	722.7	724.1	724.8	723.4
7.5°	735.4	733.5	735.4	734.1	734.1	732.8	726.1	724.8	725.4	727.4	725.4
10°	735.4	733.5	735.4	734.7	734.1	732.8	726.1	723.4	723.4	725.4	723.4
12.5°	732.1	730.8	732.1	730.8	730.8	729.5	722.7	720.1	720.7	721.4	718.7
15°	726.8	724.8	726.8	725.4	726.1	724.1	716.7	714.0	714.0	715.4	710.7
17.5°	718.7	716.0	718.7	718.1	717.4	716.0	709.4	706.8	706.1	706.8	703.4
20°	709.4	707.4	709.4	708.8	708.8	706.1	699.4	696.0	696.0	696.0	692.7
22.5°	694.7	692.7	694.7	696.0	696.0	695.3	689.3	684.7	683.4	683.4	679.4
25°	678.0	676.0	678.0	678.0	677.3	678.0	676.0	673.3	671.3	669.3	665.3
27.5°	661.9	660.6	661.9	660.6	661.9	659.9	659.3	658.7	656.0	654.0	648.6
30°	645.9	644.6	645.9	644.6	643.2	641.9	638.5	637.2	639.9	638.5	629.9
32.5°	625.9	624.6	625.9	625.9	624.6	624.6	619.2	617.2	617.9	621.9	613.8
35°	605.2	603.2	605.2	604.5	605.2	603.2	599.8	599.2	596.5	601.2	595.2
37.5°	581.2	579.2	581.2	581.2	581.2	582.5	579.8	577.8	573.8	579.8	575.1
40°	556.5	553.8	556.5	555.8	556.5	557.8	556.5	555.1	551.1	555.8	551.8
42.5°	528.4	527.7	528.4	529.1	529.1	531.7	533.8	531.1	529.7	526.4	529.1
45°	498.3	497.0	498.3	499.6	500.3	501.7	507.7	507.7	505.7	500.3	504.3
47.5°	466.2	462.9	466.2	470.2	470.2	472.3	478.3	483.0	479.6	472.9	474.9
50°	432.2	432.9	432.2	434.9	434.9	442.2	446.9	451.6	454.9	446.9	437.5
52.5°	398.8	398.1	398.8	400.8	403.5	406.8	414.8	419.5	424.8	420.1	405.5
55°	365.3	366.7	365.3	366.0	367.4	369.4	381.4	386.0	396.1	390.1	374.7
57.5°	332.0	330.0	332.0	333.4	334.0	336.0	346.0	354.7	360.8	361.3	342.6
60°	293.2	290.5	293.2	299.3	300.6	301.9	311.2	319.3	324.6	326.6	307.3
62.5°	259.2	254.5	259.2	263.1	265.8	269.2	275.9	287.9	292.5	293.2	265.8
65°	223.1	221.1	223.1	231.1	231.8	235.8	243.1	251.8	261.8	260.6	221.1
67.5°	190.3	190.3	190.3	195.7	199.7	201.7	211.1	215.1	227.8	229.1	184.4
70°	160.4	159.7	160.4	164.3	167.0	171.7	180.4	185.1	195.0	198.4	149.6
72.5°	131.6	130.9	131.6	135.0	137.6	141.6	149.0	154.3	162.9	167.0	116.2
75°	106.2	104.9	106.2	108.9	108.2	113.5	119.5	124.9	133.0	135.6	86.2
77.5°	81.5	81.5	81.5	84.2	84.2	89.5	92.2	98.9	103.6	107.6	63.4
80°	60.8	60.2	60.8	61.5	61.5	64.1	68.8	73.5	77.5	77.5	43.4
82.5°	42.7	41.4	42.7	42.7	42.7	44.1	46.7	48.1	50.8	52.8	27.4
85°	26.7	26.7	26.7	27.4	26.7	28.1	28.7	30.1	30.1	28.7	16.7
87.5°	17.3	16.7	17.3	16.7	16.7	16.0	16.0	16.0	15.3	14.7	9.4
90°	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1	18.2	11.6
92.5°	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7	112.4	80.0
95°	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6	276.6	155.8
97.5°	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2	372.6	171.1
100°	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7	407.6	184.0
102.5°	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9	423.6	196.8
105°	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2	435.5	215.8
107.5°	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7	437.6	244.0
110°	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0	434.3	259.8



TEST NUMBER: P935082

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9	434.5	278.8
115°	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2	438.4	307.4
117.5°	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2	446.6	335.2
120°	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1	453.2	351.3
122.5°	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9	462.7	370.4
125°	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3	475.6	394.8
127.5°	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8	488.4	418.4
130°	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8	497.8	434.2
132.5°	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3	505.4	447.0
135°	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8	513.7	461.9
137.5°	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3	526.1	481.0
140°	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9	533.8	493.8
142.5°	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0	540.1	503.4
145°	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1	548.4	517.8
147.5°	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1	560.5	536.0
150°	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3	566.9	545.6
152.5°	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6	571.0	551.8
155°	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7	580.2	565.5
157.5°	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7	589.2	579.2
160°	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1	593.4	585.3
162.5°	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6	597.8	592.0
165°	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7	604.2	601.5
167.5°	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0	609.2	607.0
170°	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4	613.2	613.1
172.5°	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3	616.0	617.3
177.5°	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0	616.3	617.3
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935082

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	716.0	712.0	712.0	705.4	702.7	700.7	697.4	687.3	684.7	682.0	686.0
5°	722.1	714.7	709.4	697.4	687.3	683.4	670.6	646.6	630.6	618.5	611.8
7.5°	723.4	714.0	704.1	685.3	661.2	650.6	611.8	567.8	555.8	545.1	538.3
10°	722.1	711.3	697.4	669.3	612.5	593.8	555.1	526.4	519.0	517.0	519.0
12.5°	717.4	707.4	688.0	641.2	561.7	549.1	526.4	509.7	508.4	511.6	529.7
15°	709.4	700.0	677.3	603.9	533.8	524.4	508.4	502.3	509.7	533.1	587.1
17.5°	701.4	690.7	662.6	567.1	512.3	505.7	494.3	506.4	547.7	579.2	597.2
20°	690.7	678.0	645.9	540.4	497.0	490.9	485.6	539.7	571.1	582.5	592.5
22.5°	678.0	664.6	623.2	521.7	481.0	476.3	479.6	558.5	571.1	579.2	587.8
25°	661.2	649.9	596.5	507.0	468.2	462.9	475.6	556.5	563.7	565.7	583.2
27.5°	645.9	631.3	568.4	493.6	452.9	450.9	479.0	547.7	553.1	555.1	573.8
30°	627.2	605.2	537.0	479.6	436.8	436.1	479.6	537.0	535.7	541.0	559.8
32.5°	607.9	566.4	501.7	462.2	421.5	420.8	474.9	521.0	519.7	527.0	541.0
35°	589.8	536.3	453.6	442.2	402.1	402.8	463.5	502.3	503.0	509.7	518.3
37.5°	571.1	510.4	400.8	420.1	383.5	383.5	448.2	485.0	483.7	485.6	497.6
40°	549.1	469.6	354.0	391.4	366.0	364.0	429.5	466.2	461.5	460.9	477.6
42.5°	525.7	424.8	319.3	353.4	346.0	343.3	406.8	443.5	434.9	436.8	458.3
45°	500.3	412.8	292.5	298.6	325.3	323.3	382.1	417.5	411.4	416.8	438.8
47.5°	474.9	388.7	283.9	247.8	303.3	302.6	354.7	392.1	388.7	394.1	417.5
50°	440.2	362.0	283.3	212.4	278.6	281.2	322.0	367.4	367.4	372.1	396.8
52.5°	395.4	329.3	257.2	192.3	249.8	257.9	293.2	346.0	347.3	352.0	374.1
55°	354.7	295.2	238.4	177.0	215.7	233.2	265.1	324.0	326.6	331.3	351.4
57.5°	317.3	245.8	234.5	159.0	184.4	201.1	240.4	302.6	303.9	308.0	327.3
60°	277.2	177.7	215.1	139.6	157.0	169.6	217.7	277.2	281.9	284.6	301.3
62.5°	231.8	128.9	195.0	126.3	143.6	146.3	199.1	253.2	259.2	261.2	271.2
65°	165.0	108.2	165.6	114.9	129.6	130.3	179.0	228.5	233.8	237.1	244.5
67.5°	111.6	88.1	126.3	104.2	118.9	119.5	159.7	199.7	207.1	209.8	214.4
70°	77.5	58.8	93.5	92.8	106.9	108.2	138.9	173.7	180.4	182.4	185.1
72.5°	56.8	47.4	77.5	83.5	94.2	95.5	117.5	144.3	151.0	153.0	154.3
75°	43.4	50.1	62.7	72.8	80.2	80.8	96.2	117.5	122.2	123.6	124.2
77.5°	34.8	46.7	46.1	58.8	65.4	64.1	75.5	90.8	94.8	94.8	94.8
80°	26.1	36.8	34.8	42.1	48.1	46.7	54.1	64.8	66.1	67.4	66.8
82.5°	19.3	23.4	23.4	26.7	32.1	30.8	36.1	42.1	42.1	42.1	43.4
85°	12.1	13.3	10.7	14.0	18.0	17.3	20.0	22.7	23.4	23.4	22.0
87.5°	7.4	6.0	3.4	5.4	8.0	8.0	9.4	10.1	9.4	9.4	9.4
90°	10.8	7.5	4.2	7.5	10.8	11.6	18.2	27.1	31.5	28.0	21.0
92.5°	72.9	44.7	16.5	44.7	72.9	80.0	112.4	155.7	177.3	155.4	111.6
95°	142.9	91.3	39.7	91.3	142.9	155.8	276.6	437.6	518.2	462.4	350.9
97.5°	159.8	114.2	68.7	114.2	159.8	171.1	372.6	641.2	775.5	740.2	669.7
100°	173.6	132.4	91.1	132.4	173.6	184.0	407.6	705.7	854.7	857.3	862.3
102.5°	187.1	148.7	110.2	148.7	187.1	196.8	423.6	725.9	877.1	922.0	1011.8
105°	207.7	175.1	142.5	175.1	207.7	215.8	435.5	728.2	874.6	975.3	1176.7
107.5°	236.5	206.1	175.7	206.1	236.5	244.0	437.6	695.7	824.8	965.3	1246.3
110°	252.9	225.5	198.0	225.5	252.9	259.8	434.3	667.0	783.4	940.4	1254.6



TEST NUMBER: P935082

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	272.2	246.1	220.0	246.1	272.2	278.8	434.5	641.9	745.7	906.5	1227.9
115°	301.3	277.2	253.1	277.2	301.3	307.4	438.4	613.2	700.6	855.5	1165.1
117.5°	329.7	307.8	285.9	307.8	329.7	335.2	446.6	595.2	669.5	809.2	1088.7
120°	346.1	325.5	304.9	325.5	346.1	351.3	453.2	589.1	657.1	784.7	1040.1
122.5°	365.2	344.4	323.6	344.4	365.2	370.4	462.7	585.9	647.5	762.4	992.4
125°	390.0	371.1	352.2	371.1	390.0	394.8	475.6	583.3	637.1	734.8	930.2
127.5°	413.6	394.4	375.3	394.4	413.6	418.4	488.4	581.8	628.5	712.3	880.1
130°	429.0	408.4	387.7	408.4	429.0	434.2	497.8	582.8	625.2	699.9	849.2
132.5°	441.8	421.2	400.6	421.2	441.8	447.0	505.4	583.3	622.2	689.0	822.7
135°	457.3	438.4	419.7	438.4	457.3	461.9	513.7	582.8	617.3	673.3	785.1
137.5°	476.3	457.8	439.1	457.8	476.3	481.0	526.1	586.3	616.4	663.7	758.4
140°	489.5	472.4	455.3	472.4	489.5	493.8	533.8	586.9	613.5	654.4	736.1
142.5°	499.4	483.6	467.7	483.6	499.4	503.4	540.1	589.0	613.5	649.4	721.2
145°	514.3	500.6	486.7	500.6	514.3	517.8	548.4	589.1	609.5	638.8	697.5
147.5°	532.7	519.3	505.9	519.3	532.7	536.0	560.5	593.1	609.5	632.6	678.8
150°	542.5	530.4	518.2	530.4	542.5	545.6	566.9	595.3	609.5	629.0	667.9
152.5°	549.5	540.2	531.1	540.2	549.5	551.8	571.0	596.6	609.5	626.1	659.4
155°	563.8	557.0	550.2	557.0	563.8	565.5	580.2	599.7	609.5	622.7	649.2
157.5°	577.5	570.9	564.2	570.9	577.5	579.2	589.2	602.7	609.5	619.7	640.3
160°	584.1	579.0	573.8	579.0	584.1	585.3	593.4	604.1	609.5	618.3	635.9
162.5°	591.0	587.1	583.3	587.1	591.0	592.0	597.8	605.6	609.5	616.9	631.8
165°	600.6	597.1	593.6	597.1	600.6	601.5	604.2	607.7	609.5	614.8	625.5
167.5°	606.6	604.9	603.2	604.9	606.6	607.0	609.2	612.0	613.5	617.0	624.0
170°	612.7	611.0	609.5	611.0	612.7	613.1	613.2	613.4	613.5	617.0	624.0
172.5°	613.4	613.1	612.7	613.1	613.4	613.5	613.5	613.5	613.5	616.3	621.8
175°	617.3	617.3	617.3	617.3	617.3	617.3	616.0	614.3	613.5	615.3	618.8
177.5°	617.3	617.3	617.3	617.3	617.3	617.3	616.3	615.0	614.3	615.7	618.5
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935082

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1	706.1
2.5°	681.4	679.4	682.0	674.7	682.0	679.4	681.4	686.0	682.0	684.7	687.3
5°	597.8	594.5	583.9	575.1	583.9	594.5	597.8	611.8	618.5	630.6	646.6
7.5°	534.4	531.7	529.1	523.7	529.1	531.7	534.4	538.3	545.1	555.8	567.8
10°	520.3	521.0	525.0	524.4	525.0	521.0	520.3	519.0	517.0	519.0	526.4
12.5°	556.5	562.4	584.5	583.2	584.5	562.4	556.5	529.7	511.6	508.4	509.7
15°	597.8	599.8	604.5	605.2	604.5	599.8	597.8	587.1	533.1	509.7	502.3
17.5°	601.9	602.5	605.9	605.9	605.9	602.5	601.9	597.2	579.2	547.7	506.4
20°	598.5	599.8	606.6	607.9	606.6	599.8	598.5	592.5	582.5	571.1	539.7
22.5°	597.2	599.8	605.2	604.5	605.2	599.8	597.2	587.8	579.2	571.1	558.5
25°	590.5	590.5	591.1	591.8	591.1	590.5	590.5	583.2	565.7	563.7	556.5
27.5°	576.5	577.8	581.8	581.2	581.8	577.8	576.5	573.8	555.1	553.1	547.7
30°	563.7	562.4	559.1	556.5	559.1	562.4	563.7	559.8	541.0	535.7	537.0
32.5°	542.4	539.0	535.7	533.8	535.7	539.0	542.4	541.0	527.0	519.7	521.0
35°	517.0	517.7	517.0	515.0	517.0	517.7	517.0	518.3	509.7	503.0	502.3
37.5°	499.0	500.3	499.6	497.0	499.6	500.3	499.0	497.6	485.6	483.7	485.0
40°	480.3	481.0	480.3	478.3	480.3	481.0	480.3	477.6	460.9	461.5	466.2
42.5°	462.2	461.5	459.6	458.3	459.6	461.5	462.2	458.3	436.8	434.9	443.5
45°	441.5	442.2	438.1	436.1	438.1	442.2	441.5	438.8	416.8	411.4	417.5
47.5°	420.8	420.8	417.5	415.4	417.5	420.8	420.8	417.5	394.1	388.7	392.1
50°	398.8	398.1	393.4	392.7	393.4	398.1	398.8	396.8	372.1	367.4	367.4
52.5°	373.4	373.4	374.1	375.4	374.1	373.4	373.4	374.1	352.0	347.3	346.0
55°	351.4	352.0	356.7	358.1	356.7	352.0	351.4	351.4	331.3	326.6	324.0
57.5°	328.7	328.7	332.0	332.0	332.0	328.7	328.7	327.3	308.0	303.9	302.6
60°	302.6	303.9	306.6	306.0	306.6	303.9	302.6	301.3	284.6	281.9	277.2
62.5°	275.2	276.6	277.2	275.9	277.2	276.6	275.2	271.2	261.2	259.2	253.2
65°	246.5	247.8	248.5	247.1	248.5	247.8	246.5	244.5	237.1	233.8	228.5
67.5°	217.1	216.4	215.7	218.4	215.7	216.4	217.1	214.4	209.8	207.1	199.7
70°	187.0	187.0	186.4	187.7	186.4	187.0	187.0	185.1	182.4	180.4	173.7
72.5°	155.0	154.3	157.0	155.0	157.0	154.3	155.0	154.3	153.0	151.0	144.3
75°	123.6	124.9	123.6	125.6	123.6	124.9	123.6	124.2	123.6	122.2	117.5
77.5°	94.2	95.5	94.2	94.2	94.2	95.5	94.2	94.8	94.8	94.8	90.8
80°	66.8	66.1	66.1	65.4	66.1	66.1	66.8	66.8	67.4	66.1	64.8
82.5°	42.7	42.1	42.1	43.4	42.1	42.1	42.7	43.4	42.1	42.1	42.1
85°	23.4	24.0	22.7	22.7	22.7	24.0	23.4	22.0	23.4	23.4	22.7
87.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.7	9.4	9.4	9.4	10.1
90°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	21.0	28.0	31.5	27.1
92.5°	78.7	75.6	63.0	50.5	63.0	75.6	78.7	111.6	155.4	177.3	155.7
95°	267.2	257.8	219.8	181.9	219.8	257.8	267.2	350.9	462.4	518.2	437.6
97.5°	616.8	598.8	526.6	454.5	526.6	598.8	616.8	669.7	740.2	775.5	641.2
100°	866.2	844.7	758.8	672.8	758.8	844.7	866.2	862.3	857.3	854.7	705.7
102.5°	1079.2	1060.7	987.1	913.5	987.1	1060.7	1079.2	1011.8	922.0	877.1	725.9
105°	1327.8	1317.9	1278.3	1238.7	1278.3	1317.9	1327.8	1176.7	975.3	874.6	728.2
107.5°	1457.0	1459.4	1469.0	1478.6	1469.0	1459.4	1457.0	1246.3	965.3	824.8	695.7
110°	1490.1	1500.5	1541.7	1582.9	1541.7	1500.5	1490.1	1254.6	940.4	783.4	667.0



TEST NUMBER: P935082

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1469.0	1484.8	1548.2	1611.5	1548.2	1484.8	1469.0	1227.9	906.5	745.7	641.9
115°	1397.4	1419.3	1507.1	1595.0	1507.1	1419.3	1397.4	1165.1	855.5	700.6	613.2
117.5°	1298.4	1322.7	1420.1	1517.5	1420.1	1322.7	1298.4	1088.7	809.2	669.5	595.2
120°	1231.7	1255.4	1350.0	1444.6	1350.0	1255.4	1231.7	1040.1	784.7	657.1	589.1
122.5°	1164.9	1188.2	1281.7	1375.0	1281.7	1188.2	1164.9	992.4	762.4	647.5	585.9
125°	1076.7	1098.2	1184.1	1270.2	1184.1	1098.2	1076.7	930.2	734.8	637.1	583.3
127.5°	1005.9	1024.0	1096.6	1169.1	1096.6	1024.0	1005.9	880.1	712.3	628.5	581.8
130°	961.1	977.9	1044.9	1111.9	1044.9	977.9	961.1	849.2	699.9	625.2	582.8
132.5°	923.0	938.0	998.0	1058.1	998.0	938.0	923.0	822.7	689.0	622.2	583.3
135°	869.1	882.1	933.8	985.5	933.8	882.1	869.1	785.1	673.3	617.3	582.8
137.5°	829.4	839.9	882.4	924.7	882.4	839.9	829.4	758.4	663.7	616.4	586.3
140°	797.5	807.4	847.0	886.5	847.0	807.4	797.5	736.1	654.4	613.5	586.9
142.5°	775.1	783.7	817.7	851.8	817.7	783.7	775.1	721.2	649.4	613.5	589.0
145°	741.5	748.0	773.8	799.6	773.8	748.0	741.5	697.5	638.8	609.5	589.1
147.5°	713.4	718.8	740.1	761.4	740.1	718.8	713.4	678.8	632.6	609.5	593.1
150°	697.2	701.5	718.8	736.1	718.8	701.5	697.2	667.9	629.0	609.5	595.3
152.5°	684.4	687.6	700.7	713.8	700.7	687.6	684.4	659.4	626.1	609.5	596.6
155°	669.0	671.2	679.9	688.5	679.9	671.2	669.0	649.2	622.7	609.5	599.7
157.5°	655.8	657.3	663.4	669.5	663.4	657.3	655.8	640.3	619.7	609.5	602.7
160°	649.2	650.1	653.6	657.1	653.6	650.1	649.2	635.9	618.3	609.5	604.1
162.5°	642.9	643.7	647.1	650.4	647.1	643.7	642.9	631.8	616.9	609.5	605.6
165°	633.5	634.4	637.8	641.3	637.8	634.4	633.5	625.5	614.8	609.5	607.7
167.5°	629.3	629.7	631.1	632.6	631.1	629.7	629.3	624.0	617.0	613.5	612.0
170°	629.3	629.3	629.3	629.3	629.3	629.3	629.3	624.0	617.0	613.5	613.4
172.5°	626.0	625.7	624.4	623.1	624.4	625.7	626.0	621.8	616.3	613.5	613.5
175°	621.4	621.4	621.4	621.4	621.4	621.4	621.4	618.8	615.3	613.5	614.3
177.5°	620.6	620.2	618.8	617.3	618.8	620.2	620.6	618.5	615.7	614.3	615.0
180°	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3	617.3



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	706.1	706.1	706.1	706.1	706.1
2.5°	697.4	700.7	702.7	705.4	712.0
5°	670.6	683.4	687.3	697.4	709.4
7.5°	611.8	650.6	661.2	685.3	704.1
10°	555.1	593.8	612.5	669.3	697.4
12.5°	526.4	549.1	561.7	641.2	688.0
15°	508.4	524.4	533.8	603.9	677.3
17.5°	494.3	505.7	512.3	567.1	662.6
20°	485.6	490.9	497.0	540.4	645.9
22.5°	479.6	476.3	481.0	521.7	623.2
25°	475.6	462.9	468.2	507.0	596.5
27.5°	479.0	450.9	452.9	493.6	568.4
30°	479.6	436.1	436.8	479.6	537.0
32.5°	474.9	420.8	421.5	462.2	501.7
35°	463.5	402.8	402.1	442.2	453.6
37.5°	448.2	383.5	383.5	420.1	400.8
40°	429.5	364.0	366.0	391.4	354.0
42.5°	406.8	343.3	346.0	353.4	319.3
45°	382.1	323.3	325.3	298.6	292.5
47.5°	354.7	302.6	303.3	247.8	283.9
50°	322.0	281.2	278.6	212.4	283.3
52.5°	293.2	257.9	249.8	192.3	257.2
55°	265.1	233.2	215.7	177.0	238.4
57.5°	240.4	201.1	184.4	159.0	234.5
60°	217.7	169.6	157.0	139.6	215.1
62.5°	199.1	146.3	143.6	126.3	195.0
65°	179.0	130.3	129.6	114.9	165.6
67.5°	159.7	119.5	118.9	104.2	126.3
70°	138.9	108.2	106.9	92.8	93.5
72.5°	117.5	95.5	94.2	83.5	77.5
75°	96.2	80.8	80.2	72.8	62.7
77.5°	75.5	64.1	65.4	58.8	46.1
80°	54.1	46.7	48.1	42.1	34.8
82.5°	36.1	30.8	32.1	26.7	23.4
85°	20.0	17.3	18.0	14.0	10.7
87.5°	9.4	8.0	8.0	5.4	3.4
90°	18.2	11.6	10.8	7.5	4.2
92.5°	112.4	80.0	72.9	44.7	16.5
95°	276.6	155.8	142.9	91.3	39.7
97.5°	372.6	171.1	159.8	114.2	68.7
100°	407.6	184.0	173.6	132.4	91.1
102.5°	423.6	196.8	187.1	148.7	110.2
105°	435.5	215.8	207.7	175.1	142.5
107.5°	437.6	244.0	236.5	206.1	175.7
110°	434.3	259.8	252.9	225.5	198.0



TEST NUMBER: P935082

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	434.5	278.8	272.2	246.1	220.0
115°	438.4	307.4	301.3	277.2	253.1
117.5°	446.6	335.2	329.7	307.8	285.9
120°	453.2	351.3	346.1	325.5	304.9
122.5°	462.7	370.4	365.2	344.4	323.6
125°	475.6	394.8	390.0	371.1	352.2
127.5°	488.4	418.4	413.6	394.4	375.3
130°	497.8	434.2	429.0	408.4	387.7
132.5°	505.4	447.0	441.8	421.2	400.6
135°	513.7	461.9	457.3	438.4	419.7
137.5°	526.1	481.0	476.3	457.8	439.1
140°	533.8	493.8	489.5	472.4	455.3
142.5°	540.1	503.4	499.4	483.6	467.7
145°	548.4	517.8	514.3	500.6	486.7
147.5°	560.5	536.0	532.7	519.3	505.9
150°	566.9	545.6	542.5	530.4	518.2
152.5°	571.0	551.8	549.5	540.2	531.1
155°	580.2	565.5	563.8	557.0	550.2
157.5°	589.2	579.2	577.5	570.9	564.2
160°	593.4	585.3	584.1	579.0	573.8
162.5°	597.8	592.0	591.0	587.1	583.3
165°	604.2	601.5	600.6	597.1	593.6
167.5°	609.2	607.0	606.6	604.9	603.2
170°	613.2	613.1	612.7	611.0	609.5
172.5°	613.5	613.5	613.4	613.1	612.7
175°	616.0	617.3	617.3	617.3	617.3
177.5°	616.3	617.3	617.3	617.3	617.3
180°	617.3	617.3	617.3	617.3	617.3



TEST NUMBER: P935082
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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	9.30	10.02	10.40	11.11	12.63	12.10	12.82	13.20	13.91	15.43
	3H	9.77	10.41	10.88	11.51	13.04	13.42	14.06	14.53	15.17	16.70
	4H	9.95	10.56	11.07	11.67	13.20	13.85	14.46	14.97	15.57	17.11
	6H	10.06	10.62	11.19	11.73	13.28	14.12	14.68	15.25	15.79	17.34
	8H	10.06	10.59	11.19	11.72	13.26	14.19	14.72	15.32	15.85	17.39
	12H	10.03	10.53	11.16	11.65	13.22	14.22	14.72	15.36	15.84	17.41
4H	2H	10.31	10.92	11.44	12.02	13.56	12.49	13.10	13.62	14.21	15.74
	3H	11.32	11.83	12.45	12.96	14.51	13.97	14.48	15.11	15.61	17.16
	4H	11.59	12.06	12.73	13.18	14.75	14.49	14.95	15.63	16.08	17.65
	6H	11.71	12.11	12.85	13.25	14.81	14.84	15.24	15.98	16.38	17.94
	8H	11.71	12.08	12.85	13.22	14.80	14.94	15.31	16.08	16.45	18.02
	12H	11.67	12.01	12.83	13.16	14.74	14.98	15.32	16.14	16.47	18.05
8H	4H	12.03	12.40	13.17	13.54	15.11	14.60	14.97	15.75	16.11	17.69
	6H	12.28	12.59	13.45	13.77	15.34	15.02	15.33	16.19	16.51	18.09
	8H	12.32	12.59	13.49	13.75	15.34	15.17	15.44	16.34	16.60	18.19
	12H	12.30	12.54	13.47	13.69	15.32	15.26	15.49	16.43	16.65	18.28
12H	4H	12.02	12.36	13.18	13.51	15.09	14.56	14.90	15.72	16.05	17.63
	6H	12.34	12.61	13.51	13.77	15.36	15.02	15.29	16.19	16.45	18.04
	8H	12.40	12.64	13.57	13.79	15.42	15.17	15.41	16.34	16.56	18.19