

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: P935031

Luminaire Tested: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935031
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-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

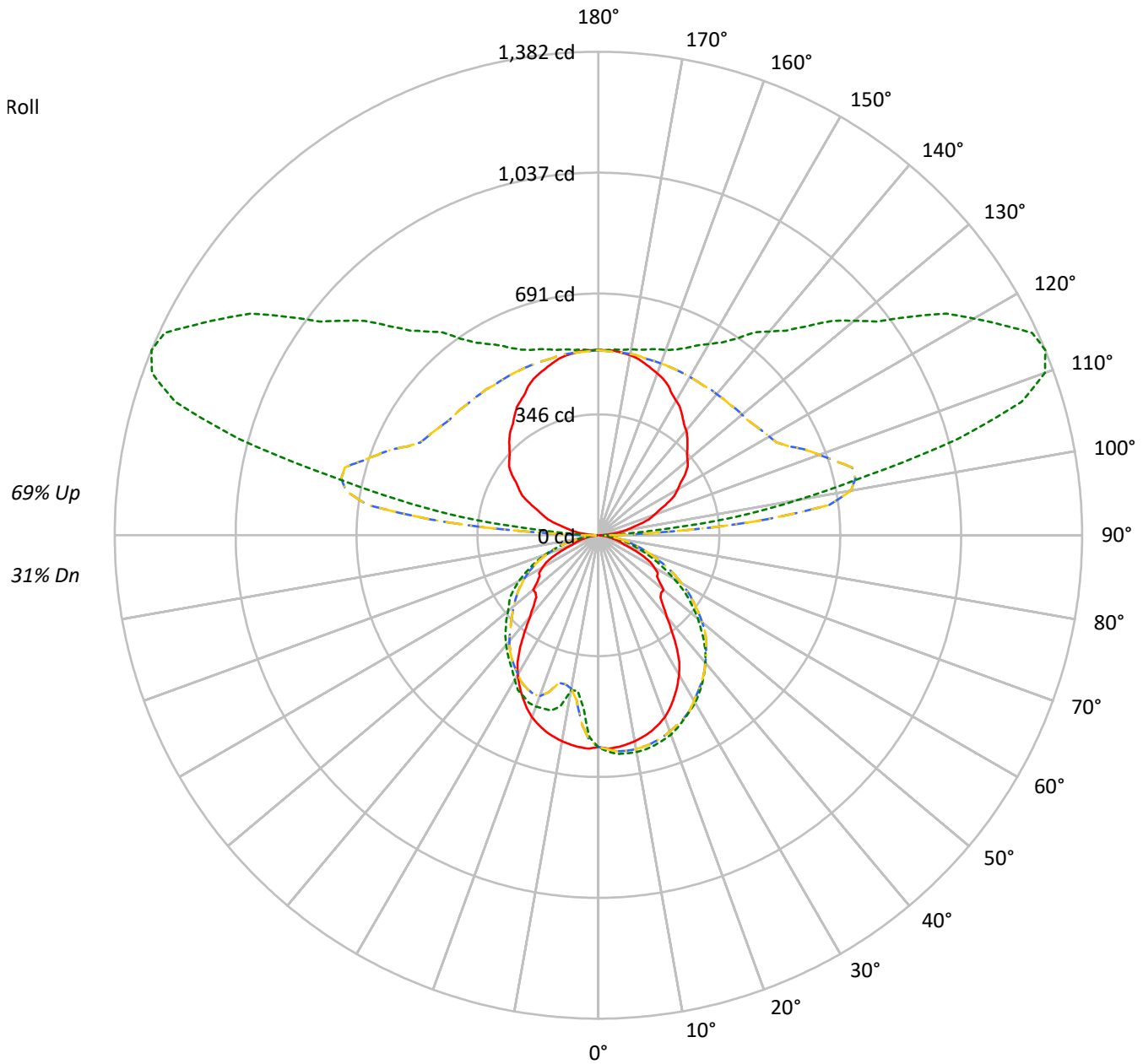
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5003.5 lumens
Efficiency: N/A
Efficacy: 121.4 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: P935031
CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-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°	5619	5619	5619	5619
5°	5654	5672	5654	4459
10°	5611	5587	5611	3994
15°	5542	5465	5542	4564
20°	5420	5322	5420	4574
25°	5177	5113	5177	4476
30°	4864	4940	4864	4264
35°	4331	4720	4331	4030
40°	3602	4462	3602	3854
45°	3212	4159	3212	3649
50°	3405	3798	3405	3446
55°	3194	3409	3194	3329
60°	3282	2894	3282	3049
65°	2959	2393	2959	2675
70°	2036	1907	2036	2243
75°	1764	1409	1764	1688
80°	1395	933	1395	1014
85°	754	493	754	420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.1
10°-20°	155.2	3.1
20°-30°	239.9	4.8
30°-40°	286.4	5.7
40°-50°	288.0	5.8
50°-60°	250.6	5.0
60°-70°	177.7	3.6
70°-80°	94.0	1.9
80°-90°	25.4	0.5
90°-100°	258.0	5.2
100°-110°	678.4	13.6
110°-120°	703.4	14.1
120°-130°	564.2	11.3
130°-140°	442.7	8.8
140°-150°	339.8	6.8
150°-160°	244.7	4.9
160°-170°	149.7	3.0
170°-180°	50.6	1.0
0°-30°	449.7	9.0
0°-40°	736.1	14.7
0°-60°	1274.8	25.5
0°-90°	1571.9	31.4
90°-120°	1639.8	32.8
90°-150°	2986.5	59.7
90°-180°	3432.0	68.6
0°-180°	5003.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	606	606	606	606	606	
5°	608	627	608	493	608	58
15°	581	622	581	519	581	163
25°	512	580	512	508	512	235
35°	389	517	389	442	389	241
45°	251	426	251	374	251	201
55°	204	314	204	307	204	188
65°	142	190	142	212	142	136
75°	54	90	54	108	54	57
85°	9	23	9	20	9	12
90°	4	14	4	14	4	3
95°	34	156	34	156	34	38
105°	122	1062	122	1062	122	130
115°	217	1368	217	1368	217	214
125°	302	1089	302	1089	302	268
135°	360	845	360	845	360	278
145°	417	686	417	686	417	262
155°	472	590	472	590	472	217
165°	509	550	509	550	509	144
175°	529	533	529	533	529	50
180°	529	529	529	529	529	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	610.6	610.6	614.0	615.2	615.2	613.5	611.8	613.5	618.6	620.4	619.8
5°	608.3	612.9	619.2	620.4	621.5	621.0	619.8	621.0	626.7	627.8	628.4
7.5°	603.8	612.3	620.4	622.1	623.8	622.1	621.5	622.7	628.4	629.5	629.5
10°	598.1	610.0	619.2	620.4	622.1	620.4	620.4	622.7	628.4	629.5	630.1
12.5°	590.0	606.6	615.2	616.3	618.6	618.0	617.5	619.8	625.6	626.7	626.7
15°	580.8	600.3	608.3	609.5	613.5	612.3	612.3	614.6	621.0	622.7	622.1
17.5°	568.3	592.3	601.5	603.2	606.1	605.5	606.1	608.3	614.0	615.2	615.8
20°	553.9	581.4	592.3	594.0	596.9	596.9	596.9	599.8	605.5	607.8	607.8
22.5°	534.4	570.0	581.4	582.6	586.0	586.0	587.1	591.1	596.3	596.9	596.9
25°	511.5	557.3	567.1	570.6	574.0	575.7	577.4	579.7	581.4	580.8	581.4
27.5°	487.5	541.3	553.9	556.2	560.8	562.5	564.8	565.3	565.9	567.7	566.5
30°	460.5	519.0	537.8	540.2	547.6	548.8	546.5	547.6	550.5	551.6	552.8
32.5°	430.2	485.7	521.3	526.4	533.3	529.9	529.3	531.0	535.6	535.6	536.7
35°	389.0	459.9	505.8	510.4	515.6	511.5	513.8	514.4	517.3	519.0	518.4
37.5°	343.7	437.7	489.8	493.2	497.2	492.1	495.5	497.2	499.5	498.4	498.4
40°	303.6	402.7	470.9	473.2	476.6	472.6	476.0	477.2	478.3	477.2	476.6
42.5°	273.8	364.3	450.8	453.7	451.4	454.2	455.4	457.7	455.9	453.7	453.7
45°	250.9	354.0	429.0	432.4	429.0	433.6	435.3	435.3	430.2	429.0	428.4
47.5°	243.4	333.4	407.2	407.2	405.5	411.3	414.2	410.2	405.0	403.2	403.2
50°	242.9	310.5	377.5	375.2	383.2	390.1	387.3	383.2	379.2	372.9	372.9
52.5°	220.5	282.4	339.1	347.7	360.3	364.3	359.8	355.7	348.8	346.0	343.7
55°	204.5	253.2	304.2	321.3	334.6	339.7	331.1	327.0	316.8	315.1	313.9
57.5°	201.1	210.8	272.1	293.8	309.9	309.4	304.2	296.7	288.1	286.4	285.9
60°	184.5	152.4	237.7	263.5	280.1	278.4	273.8	266.9	258.9	257.8	256.7
62.5°	167.2	110.5	198.8	228.0	251.5	250.9	246.9	236.6	230.9	228.0	225.7
65°	142.0	92.8	141.5	189.6	223.4	224.6	215.9	208.5	202.2	198.8	198.2
67.5°	108.3	75.6	95.7	158.1	196.4	195.3	184.5	181.0	173.0	171.3	167.8
70°	80.2	50.4	66.5	128.3	170.1	167.2	158.7	154.7	147.3	143.2	140.9
72.5°	66.5	40.7	48.7	99.7	143.2	139.7	132.3	127.8	121.5	118.0	115.7
75°	53.8	43.0	37.2	73.9	116.2	114.0	107.1	102.5	97.4	92.8	93.4
77.5°	39.5	40.1	29.8	54.4	92.2	88.8	84.8	79.1	76.8	72.2	72.2
80°	29.8	31.5	22.4	37.2	66.5	66.5	63.0	59.0	55.0	52.7	52.7
82.5°	20.1	20.1	16.6	23.5	45.3	43.6	41.3	40.1	37.8	36.6	36.6
85°	9.1	11.4	10.3	14.3	24.6	25.8	25.8	24.6	24.1	22.9	23.5
87.5°	2.9	5.1	6.3	8.0	12.6	13.2	13.8	13.8	13.8	14.3	14.3
90°	3.6	6.4	9.2	9.9	15.6	23.2	27.0	24.0	18.0	13.5	13.5
92.5°	14.2	38.4	62.5	68.6	96.4	133.5	152.0	133.2	95.7	67.5	64.8
95°	34.1	78.3	122.6	133.6	237.2	375.3	444.4	396.6	300.9	229.2	221.0
97.5°	58.9	98.0	137.0	146.7	319.5	549.9	665.0	634.8	574.3	529.0	513.5
100°	78.2	113.5	148.9	157.8	349.5	605.1	732.9	735.1	739.5	742.8	724.4
102.5°	94.5	127.5	160.5	168.8	363.3	622.5	752.1	790.7	867.7	925.4	909.6
105°	122.2	150.2	178.1	185.1	373.4	624.5	750.0	836.4	1009.1	1138.6	1130.2
107.5°	150.7	176.7	202.8	209.3	375.3	596.6	707.3	827.8	1068.8	1249.5	1251.6
110°	169.8	193.4	216.9	222.8	372.4	572.0	671.8	806.5	1075.9	1277.9	1286.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	188.7	211.1	233.4	239.1	372.6	550.5	639.5	777.3	1053.0	1259.8	1273.3
115°	217.0	237.7	258.4	263.6	376.0	525.9	600.8	733.6	999.2	1198.3	1217.1
117.5°	245.1	263.9	282.7	287.4	383.0	510.4	574.1	694.0	933.6	1113.4	1134.3
120°	261.4	279.1	296.8	301.3	388.6	505.2	563.5	673.0	892.0	1056.2	1076.5
122.5°	277.5	295.4	313.2	317.7	396.8	502.5	555.3	653.8	851.1	999.0	1019.0
125°	302.0	318.2	334.5	338.6	407.8	500.2	546.4	630.2	797.7	923.3	941.8
127.5°	321.8	338.2	354.7	358.8	418.9	498.9	539.0	610.9	754.7	862.6	878.1
130°	332.5	350.2	367.9	372.3	426.9	499.8	536.1	600.2	728.2	824.2	838.6
132.5°	343.5	361.2	378.9	383.3	433.4	500.2	533.6	590.9	705.5	791.5	804.4
135°	359.9	376.0	392.1	396.1	440.6	499.8	529.4	577.4	673.3	745.3	756.4
137.5°	376.6	392.6	408.4	412.5	451.2	502.8	528.6	569.2	650.3	711.2	720.3
140°	390.4	405.1	419.8	423.5	457.7	503.3	526.1	561.2	631.3	683.9	692.4
142.5°	401.1	414.7	428.3	431.7	463.2	505.1	526.1	556.9	618.5	664.7	672.0
145°	417.4	429.3	441.1	444.1	470.3	505.2	522.6	547.8	598.1	635.9	641.5
147.5°	433.8	445.3	456.8	459.7	480.7	508.6	522.6	542.5	582.1	611.8	616.4
150°	444.4	454.8	465.2	467.9	486.2	510.5	522.6	539.4	572.8	597.9	601.6
152.5°	455.4	463.3	471.2	473.2	489.7	511.6	522.6	536.9	565.4	586.9	589.7
155°	471.8	477.6	483.5	485.0	497.5	514.3	522.6	534.0	556.7	573.7	575.6
157.5°	483.9	489.6	495.2	496.7	505.3	516.8	522.6	531.4	549.1	562.4	563.6
160°	492.1	496.5	500.9	502.0	508.9	518.0	522.6	530.2	545.4	556.7	557.5
162.5°	500.2	503.5	506.8	507.7	512.6	519.3	522.6	529.0	541.8	551.3	552.0
165°	509.1	512.0	515.0	515.8	518.1	521.1	522.6	527.3	536.4	543.2	544.0
167.5°	517.3	518.7	520.2	520.5	522.4	524.9	526.1	529.1	535.1	539.6	540.0
170°	522.6	524.0	525.5	525.8	525.9	526.1	526.1	529.1	535.1	539.6	539.6
172.5°	525.5	525.8	526.1	526.1	526.1	526.1	526.1	528.5	533.2	536.8	536.6
175°	529.4	529.4	529.4	529.4	528.3	526.8	526.1	527.7	530.7	532.9	532.9
177.5°	529.4	529.4	529.4	529.4	528.5	527.4	526.8	528.0	530.4	532.2	531.9
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	621.0	619.2	621.0	619.8	620.4	618.6	613.5	611.8	613.5	615.2	615.2
5°	628.4	627.3	628.4	628.4	627.8	626.7	621.0	619.8	621.0	621.5	620.4
7.5°	630.7	629.0	630.7	629.5	629.5	628.4	622.7	621.5	622.1	623.8	622.1
10°	630.7	629.0	630.7	630.1	629.5	628.4	622.7	620.4	620.4	622.1	620.4
12.5°	627.8	626.7	627.8	626.7	626.7	625.6	619.8	617.5	618.0	618.6	616.3
15°	623.3	621.5	623.3	622.1	622.7	621.0	614.6	612.3	612.3	613.5	609.5
17.5°	616.3	614.0	616.3	615.8	615.2	614.0	608.3	606.1	605.5	606.1	603.2
20°	608.3	606.6	608.3	607.8	607.8	605.5	599.8	596.9	596.9	596.9	594.0
22.5°	595.8	594.0	595.8	596.9	596.9	596.3	591.1	587.1	586.0	586.0	582.6
25°	581.4	579.7	581.4	581.4	580.8	581.4	579.7	577.4	575.7	574.0	570.6
27.5°	567.7	566.5	567.7	566.5	567.7	565.9	565.3	564.8	562.5	560.8	556.2
30°	553.9	552.8	553.9	552.8	551.6	550.5	547.6	546.5	548.8	547.6	540.2
32.5°	536.7	535.6	536.7	536.7	535.6	535.6	531.0	529.3	529.9	533.3	526.4
35°	519.0	517.3	519.0	518.4	519.0	517.3	514.4	513.8	511.5	515.6	510.4
37.5°	498.4	496.7	498.4	498.4	498.4	499.5	497.2	495.5	492.1	497.2	493.2
40°	477.2	474.9	477.2	476.6	477.2	478.3	477.2	476.0	472.6	476.6	473.2
42.5°	453.1	452.5	453.1	453.7	453.7	455.9	457.7	455.4	454.2	451.4	453.7
45°	427.3	426.2	427.3	428.4	429.0	430.2	435.3	435.3	433.6	429.0	432.4
47.5°	399.8	397.0	399.8	403.2	403.2	405.0	410.2	414.2	411.3	405.5	407.2
50°	370.6	371.2	370.6	372.9	372.9	379.2	383.2	387.3	390.1	383.2	375.2
52.5°	342.0	341.4	342.0	343.7	346.0	348.8	355.7	359.8	364.3	360.3	347.7
55°	313.3	314.5	313.3	313.9	315.1	316.8	327.0	331.1	339.7	334.6	321.3
57.5°	284.7	283.0	284.7	285.9	286.4	288.1	296.7	304.2	309.4	309.9	293.8
60°	251.5	249.1	251.5	256.7	257.8	258.9	266.9	273.8	278.4	280.1	263.5
62.5°	222.2	218.2	222.2	225.7	228.0	230.9	236.6	246.9	250.9	251.5	228.0
65°	191.3	189.6	191.3	198.2	198.8	202.2	208.5	215.9	224.6	223.4	189.6
67.5°	163.2	163.2	163.2	167.8	171.3	173.0	181.0	184.5	195.3	196.4	158.1
70°	137.5	136.9	137.5	140.9	143.2	147.3	154.7	158.7	167.2	170.1	128.3
72.5°	112.8	112.2	112.8	115.7	118.0	121.5	127.8	132.3	139.7	143.2	99.7
75°	91.1	89.9	91.1	93.4	92.8	97.4	102.5	107.1	114.0	116.2	73.9
77.5°	69.9	69.9	69.9	72.2	72.2	76.8	79.1	84.8	88.8	92.2	54.4
80°	52.1	51.6	52.1	52.7	52.7	55.0	59.0	63.0	66.5	66.5	37.2
82.5°	36.6	35.5	36.6	36.6	36.6	37.8	40.1	41.3	43.6	45.3	23.5
85°	22.9	22.9	22.9	23.5	22.9	24.1	24.6	25.8	25.8	24.6	14.3
87.5°	14.9	14.3	14.9	14.3	14.3	13.8	13.8	13.8	13.2	12.6	8.0
90°	13.5	13.5	13.5	13.5	13.5	18.0	24.0	27.0	23.2	15.6	9.9
92.5°	54.1	43.3	54.1	64.8	67.5	95.7	133.2	152.0	133.5	96.4	68.6
95°	188.5	156.0	188.5	221.0	229.2	300.9	396.6	444.4	375.3	237.2	133.6
97.5°	451.6	389.7	451.6	513.5	529.0	574.3	634.8	665.0	549.9	319.5	146.7
100°	650.7	577.0	650.7	724.4	742.8	739.5	735.1	732.9	605.1	349.5	157.8
102.5°	846.5	783.4	846.5	909.6	925.4	867.7	790.7	752.1	622.5	363.3	168.8
105°	1096.2	1062.3	1096.2	1130.2	1138.6	1009.1	836.4	750.0	624.5	373.4	185.1
107.5°	1259.8	1268.0	1259.8	1251.6	1249.5	1068.8	827.8	707.3	596.6	375.3	209.3
110°	1322.1	1357.5	1322.1	1286.7	1277.9	1075.9	806.5	671.8	572.0	372.4	222.8



TEST NUMBER: P935031

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1327.7	1382.0	1327.7	1273.3	1259.8	1053.0	777.3	639.5	550.5	372.6	239.1
115°	1292.5	1367.8	1292.5	1217.1	1198.3	999.2	733.6	600.8	525.9	376.0	263.6
117.5°	1217.8	1301.3	1217.8	1134.3	1113.4	933.6	694.0	574.1	510.4	383.0	287.4
120°	1157.7	1238.8	1157.7	1076.5	1056.2	892.0	673.0	563.5	505.2	388.6	301.3
122.5°	1099.1	1179.1	1099.1	1019.0	999.0	851.1	653.8	555.3	502.5	396.8	317.7
125°	1015.5	1089.3	1015.5	941.8	923.3	797.7	630.2	546.4	500.2	407.8	338.6
127.5°	940.4	1002.6	940.4	878.1	862.6	754.7	610.9	539.0	498.9	418.9	358.8
130°	896.1	953.5	896.1	838.6	824.2	728.2	600.2	536.1	499.8	426.9	372.3
132.5°	855.8	907.3	855.8	804.4	791.5	705.5	590.9	533.6	500.2	433.4	383.3
135°	800.7	845.2	800.7	756.4	745.3	673.3	577.4	529.4	499.8	440.6	396.1
137.5°	756.7	793.0	756.7	720.3	711.2	650.3	569.2	528.6	502.8	451.2	412.5
140°	726.4	760.3	726.4	692.4	683.9	631.3	561.2	526.1	503.3	457.7	423.5
142.5°	701.2	730.5	701.2	672.0	664.7	618.5	556.9	526.1	505.1	463.2	431.7
145°	663.6	685.7	663.6	641.5	635.9	598.1	547.8	522.6	505.2	470.3	444.1
147.5°	634.7	653.0	634.7	616.4	611.8	582.1	542.5	522.6	508.6	480.7	459.7
150°	616.4	631.3	616.4	601.6	597.9	572.8	539.4	522.6	510.5	486.2	467.9
152.5°	600.9	612.2	600.9	589.7	586.9	565.4	536.9	522.6	511.6	489.7	473.2
155°	583.0	590.5	583.0	575.6	573.7	556.7	534.0	522.6	514.3	497.5	485.0
157.5°	568.9	574.1	568.9	563.6	562.4	549.1	531.4	522.6	516.8	505.3	496.7
160°	560.5	563.5	560.5	557.5	556.7	545.4	530.2	522.6	518.0	508.9	502.0
162.5°	554.9	557.7	554.9	552.0	551.3	541.8	529.0	522.6	519.3	512.6	507.7
165°	547.0	550.0	547.0	544.0	543.2	536.4	527.3	522.6	521.1	518.1	515.8
167.5°	541.2	542.5	541.2	540.0	539.6	535.1	529.1	526.1	524.9	522.4	520.5
170°	539.6	539.6	539.6	539.6	539.6	535.1	529.1	526.1	526.1	525.9	525.8
172.5°	535.5	534.3	535.5	536.6	536.8	533.2	528.5	526.1	526.1	526.1	526.1
175°	532.9	532.9	532.9	532.9	532.9	530.7	527.7	526.1	526.8	528.3	529.4
177.5°	530.7	529.4	530.7	531.9	532.2	530.4	528.0	526.8	527.4	528.5	529.4
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



TEST NUMBER: P935031

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	614.0	610.6	610.6	604.9	602.6	600.9	598.1	589.4	587.1	584.8	588.3
5°	619.2	612.9	608.3	598.1	589.4	586.0	575.1	554.5	540.7	530.4	524.7
7.5°	620.4	612.3	603.8	587.7	567.1	557.9	524.7	486.9	476.6	467.5	461.7
10°	619.2	610.0	598.1	574.0	525.3	509.2	476.0	451.4	445.1	443.4	445.1
12.5°	615.2	606.6	590.0	549.9	481.7	470.9	451.4	437.1	435.9	438.8	454.2
15°	608.3	600.3	580.8	517.9	457.7	449.7	435.9	430.7	437.1	457.1	503.5
17.5°	601.5	592.3	568.3	486.3	439.4	433.6	423.9	434.2	469.7	496.7	512.1
20°	592.3	581.4	553.9	463.4	426.2	421.0	416.5	462.9	489.8	499.5	508.1
22.5°	581.4	570.0	534.4	447.4	412.5	408.4	411.3	478.9	489.8	496.7	504.1
25°	567.1	557.3	511.5	434.8	401.5	397.0	407.8	477.2	483.4	485.1	500.1
27.5°	553.9	541.3	487.5	423.3	388.4	386.7	410.8	469.7	474.3	476.0	492.1
30°	537.8	519.0	460.5	411.3	374.6	374.0	411.3	460.5	459.4	464.0	480.0
32.5°	521.3	485.7	430.2	396.4	361.5	360.9	407.2	446.8	445.7	451.9	464.0
35°	505.8	459.9	389.0	379.2	344.8	345.4	397.5	430.7	431.3	437.1	444.5
37.5°	489.8	437.7	343.7	360.3	328.8	328.8	384.4	415.9	414.8	416.5	426.7
40°	470.9	402.7	303.6	335.7	313.9	312.2	368.3	399.8	395.8	395.3	409.6
42.5°	450.8	364.3	273.8	303.0	296.7	294.4	348.8	380.3	372.9	374.6	393.0
45°	429.0	354.0	250.9	256.1	279.0	277.2	327.6	358.1	352.8	357.5	376.3
47.5°	407.2	333.4	243.4	212.5	260.1	259.5	304.2	336.3	333.4	338.0	358.1
50°	377.5	310.5	242.9	182.2	238.9	241.1	276.1	315.1	315.1	319.1	340.3
52.5°	339.1	282.4	220.5	164.9	214.2	221.1	251.5	296.7	297.8	301.8	320.8
55°	304.2	253.2	204.5	151.8	185.0	200.0	227.4	277.8	280.1	284.1	301.3
57.5°	272.1	210.8	201.1	136.3	158.1	172.4	206.2	259.5	260.6	264.1	280.7
60°	237.7	152.4	184.5	119.7	134.6	145.5	186.7	237.7	241.7	244.0	258.4
62.5°	198.8	110.5	167.2	108.3	123.2	125.5	170.7	217.1	222.2	224.0	232.6
65°	141.5	92.8	142.0	98.6	111.1	111.7	153.5	195.9	200.5	203.4	209.7
67.5°	95.7	75.6	108.3	89.3	102.0	102.5	136.9	171.3	177.6	179.9	183.9
70°	66.5	50.4	80.2	79.6	91.6	92.8	119.2	149.0	154.7	156.4	158.7
72.5°	48.7	40.7	66.5	71.6	80.8	81.9	100.8	123.8	129.5	131.2	132.3
75°	37.2	43.0	53.8	62.4	68.8	69.3	82.5	100.8	104.8	106.0	106.5
77.5°	29.8	40.1	39.5	50.4	56.1	55.0	64.7	77.9	81.3	81.3	81.3
80°	22.4	31.5	29.8	36.1	41.3	40.1	46.4	55.6	56.7	57.8	57.3
82.5°	16.6	20.1	20.1	22.9	27.5	26.4	30.9	36.1	36.1	36.1	37.2
85°	10.3	11.4	9.1	12.0	15.5	14.9	17.2	19.5	20.1	20.1	18.9
87.5°	6.3	5.1	2.9	4.6	6.8	6.8	8.0	8.6	8.0	8.0	8.0
90°	9.2	6.4	3.6	6.4	9.2	9.9	15.6	23.2	27.0	24.0	18.0
92.5°	62.5	38.4	14.2	38.4	62.5	68.6	96.4	133.5	152.0	133.2	95.7
95°	122.6	78.3	34.1	78.3	122.6	133.6	237.2	375.3	444.4	396.6	300.9
97.5°	137.0	98.0	58.9	98.0	137.0	146.7	319.5	549.9	665.0	634.8	574.3
100°	148.9	113.5	78.2	113.5	148.9	157.8	349.5	605.1	732.9	735.1	739.5
102.5°	160.5	127.5	94.5	127.5	160.5	168.8	363.3	622.5	752.1	790.7	867.7
105°	178.1	150.2	122.2	150.2	178.1	185.1	373.4	624.5	750.0	836.4	1009.1
107.5°	202.8	176.7	150.7	176.7	202.8	209.3	375.3	596.6	707.3	827.8	1068.8
110°	216.9	193.4	169.8	193.4	216.9	222.8	372.4	572.0	671.8	806.5	1075.9



TEST NUMBER: P935031

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	233.4	211.1	188.7	211.1	233.4	239.1	372.6	550.5	639.5	777.3	1053.0
115°	258.4	237.7	217.0	237.7	258.4	263.6	376.0	525.9	600.8	733.6	999.2
117.5°	282.7	263.9	245.1	263.9	282.7	287.4	383.0	510.4	574.1	694.0	933.6
120°	296.8	279.1	261.4	279.1	296.8	301.3	388.6	505.2	563.5	673.0	892.0
122.5°	313.2	295.4	277.5	295.4	313.2	317.7	396.8	502.5	555.3	653.8	851.1
125°	334.5	318.2	302.0	318.2	334.5	338.6	407.8	500.2	546.4	630.2	797.7
127.5°	354.7	338.2	321.8	338.2	354.7	358.8	418.9	498.9	539.0	610.9	754.7
130°	367.9	350.2	332.5	350.2	367.9	372.3	426.9	499.8	536.1	600.2	728.2
132.5°	378.9	361.2	343.5	361.2	378.9	383.3	433.4	500.2	533.6	590.9	705.5
135°	392.1	376.0	359.9	376.0	392.1	396.1	440.6	499.8	529.4	577.4	673.3
137.5°	408.4	392.6	376.6	392.6	408.4	412.5	451.2	502.8	528.6	569.2	650.3
140°	419.8	405.1	390.4	405.1	419.8	423.5	457.7	503.3	526.1	561.2	631.3
142.5°	428.3	414.7	401.1	414.7	428.3	431.7	463.2	505.1	526.1	556.9	618.5
145°	441.1	429.3	417.4	429.3	441.1	444.1	470.3	505.2	522.6	547.8	598.1
147.5°	456.8	445.3	433.8	445.3	456.8	459.7	480.7	508.6	522.6	542.5	582.1
150°	465.2	454.8	444.4	454.8	465.2	467.9	486.2	510.5	522.6	539.4	572.8
152.5°	471.2	463.3	455.4	463.3	471.2	473.2	489.7	511.6	522.6	536.9	565.4
155°	483.5	477.6	471.8	477.6	483.5	485.0	497.5	514.3	522.6	534.0	556.7
157.5°	495.2	489.6	483.9	489.6	495.2	496.7	505.3	516.8	522.6	531.4	549.1
160°	500.9	496.5	492.1	496.5	500.9	502.0	508.9	518.0	522.6	530.2	545.4
162.5°	506.8	503.5	500.2	503.5	506.8	507.7	512.6	519.3	522.6	529.0	541.8
165°	515.0	512.0	509.1	512.0	515.0	515.8	518.1	521.1	522.6	527.3	536.4
167.5°	520.2	518.7	517.3	518.7	520.2	520.5	522.4	524.9	526.1	529.1	535.1
170°	525.5	524.0	522.6	524.0	525.5	525.8	525.9	526.1	526.1	529.1	535.1
172.5°	526.1	525.8	525.5	525.8	526.1	526.1	526.1	526.1	526.1	528.5	533.2
175°	529.4	529.4	529.4	529.4	529.4	529.4	528.3	526.8	526.1	527.7	530.7
177.5°	529.4	529.4	529.4	529.4	529.4	529.4	528.5	527.4	526.8	528.0	530.4
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



TEST NUMBER: P935031

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5	605.5
2.5°	584.3	582.6	584.8	578.6	584.8	582.6	584.3	588.3	584.8	587.1	589.4
5°	512.6	509.8	500.7	493.2	500.7	509.8	512.6	524.7	530.4	540.7	554.5
7.5°	458.2	455.9	453.7	449.1	453.7	455.9	458.2	461.7	467.5	476.6	486.9
10°	446.2	446.8	450.2	449.7	450.2	446.8	446.2	445.1	443.4	445.1	451.4
12.5°	477.2	482.3	501.2	500.1	501.2	482.3	477.2	454.2	438.8	435.9	437.1
15°	512.6	514.4	518.4	519.0	518.4	514.4	512.6	503.5	457.1	437.1	430.7
17.5°	516.1	516.7	519.6	519.6	519.6	516.7	516.1	512.1	496.7	469.7	434.2
20°	513.2	514.4	520.2	521.3	520.2	514.4	513.2	508.1	499.5	489.8	462.9
22.5°	512.1	514.4	519.0	518.4	519.0	514.4	512.1	504.1	496.7	489.8	478.9
25°	506.4	506.4	506.9	507.5	506.9	506.4	506.4	500.1	485.1	483.4	477.2
27.5°	494.4	495.5	498.9	498.4	498.9	495.5	494.4	492.1	476.0	474.3	469.7
30°	483.4	482.3	479.4	477.2	479.4	482.3	483.4	480.0	464.0	459.4	460.5
32.5°	465.2	462.3	459.4	457.7	459.4	462.3	465.2	464.0	451.9	445.7	446.8
35°	443.4	444.0	443.4	441.7	443.4	444.0	443.4	444.5	437.1	431.3	430.7
37.5°	427.9	429.0	428.4	426.2	428.4	429.0	427.9	426.7	416.5	414.8	415.9
40°	411.9	412.5	411.9	410.2	411.9	412.5	411.9	409.6	395.3	395.8	399.8
42.5°	396.4	395.8	394.1	393.0	394.1	395.8	396.4	393.0	374.6	372.9	380.3
45°	378.6	379.2	375.7	374.0	375.7	379.2	378.6	376.3	357.5	352.8	358.1
47.5°	360.9	360.9	358.1	356.3	358.1	360.9	360.9	358.1	338.0	333.4	336.3
50°	342.0	341.4	337.4	336.8	337.4	341.4	342.0	340.3	319.1	315.1	315.1
52.5°	320.2	320.2	320.8	321.9	320.8	320.2	320.2	320.8	301.8	297.8	296.7
55°	301.3	301.8	305.9	307.1	305.9	301.8	301.3	301.3	284.1	280.1	277.8
57.5°	281.9	281.9	284.7	284.7	284.7	281.9	281.9	280.7	264.1	260.6	259.5
60°	259.5	260.6	262.9	262.4	262.9	260.6	259.5	258.4	244.0	241.7	237.7
62.5°	236.0	237.2	237.7	236.6	237.7	237.2	236.0	232.6	224.0	222.2	217.1
65°	211.4	212.5	213.1	211.9	213.1	212.5	211.4	209.7	203.4	200.5	195.9
67.5°	186.2	185.6	185.0	187.3	185.0	185.6	186.2	183.9	179.9	177.6	171.3
70°	160.4	160.4	159.8	161.0	159.8	160.4	160.4	158.7	156.4	154.7	149.0
72.5°	132.9	132.3	134.6	132.9	134.6	132.3	132.9	132.3	131.2	129.5	123.8
75°	106.0	107.1	106.0	107.7	106.0	107.1	106.0	106.5	106.0	104.8	100.8
77.5°	80.8	81.9	80.8	80.8	80.8	81.9	80.8	81.3	81.3	81.3	77.9
80°	57.3	56.7	56.7	56.1	56.7	56.7	57.3	57.3	57.8	56.7	55.6
82.5°	36.6	36.1	36.1	37.2	36.1	36.1	36.6	37.2	36.1	36.1	36.1
85°	20.1	20.6	19.5	19.5	19.5	20.6	20.1	18.9	20.1	20.1	19.5
87.5°	7.4	6.8	6.8	6.8	6.8	6.8	7.4	8.0	8.0	8.0	8.6
90°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	24.0	27.0	23.2
92.5°	67.5	64.8	54.1	43.3	54.1	64.8	67.5	95.7	133.2	152.0	133.5
95°	229.2	221.0	188.5	156.0	188.5	221.0	229.2	300.9	396.6	444.4	375.3
97.5°	529.0	513.5	451.6	389.7	451.6	513.5	529.0	574.3	634.8	665.0	549.9
100°	742.8	724.4	650.7	577.0	650.7	724.4	742.8	739.5	735.1	732.9	605.1
102.5°	925.4	909.6	846.5	783.4	846.5	909.6	925.4	867.7	790.7	752.1	622.5
105°	1138.6	1130.2	1096.2	1062.3	1096.2	1130.2	1138.6	1009.1	836.4	750.0	624.5
107.5°	1249.5	1251.6	1259.8	1268.0	1259.8	1251.6	1249.5	1068.8	827.8	707.3	596.6
110°	1277.9	1286.7	1322.1	1357.5	1322.1	1286.7	1277.9	1075.9	806.5	671.8	572.0



TEST NUMBER: P935031

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1259.8	1273.3	1327.7	1382.0	1327.7	1273.3	1259.8	1053.0	777.3	639.5	550.5
115°	1198.3	1217.1	1292.5	1367.8	1292.5	1217.1	1198.3	999.2	733.6	600.8	525.9
117.5°	1113.4	1134.3	1217.8	1301.3	1217.8	1134.3	1113.4	933.6	694.0	574.1	510.4
120°	1056.2	1076.5	1157.7	1238.8	1157.7	1076.5	1056.2	892.0	673.0	563.5	505.2
122.5°	999.0	1019.0	1099.1	1179.1	1099.1	1019.0	999.0	851.1	653.8	555.3	502.5
125°	923.3	941.8	1015.5	1089.3	1015.5	941.8	923.3	797.7	630.2	546.4	500.2
127.5°	862.6	878.1	940.4	1002.6	940.4	878.1	862.6	754.7	610.9	539.0	498.9
130°	824.2	838.6	896.1	953.5	896.1	838.6	824.2	728.2	600.2	536.1	499.8
132.5°	791.5	804.4	855.8	907.3	855.8	804.4	791.5	705.5	590.9	533.6	500.2
135°	745.3	756.4	800.7	845.2	800.7	756.4	745.3	673.3	577.4	529.4	499.8
137.5°	711.2	720.3	756.7	793.0	756.7	720.3	711.2	650.3	569.2	528.6	502.8
140°	683.9	692.4	726.4	760.3	726.4	692.4	683.9	631.3	561.2	526.1	503.3
142.5°	664.7	672.0	701.2	730.5	701.2	672.0	664.7	618.5	556.9	526.1	505.1
145°	635.9	641.5	663.6	685.7	663.6	641.5	635.9	598.1	547.8	522.6	505.2
147.5°	611.8	616.4	634.7	653.0	634.7	616.4	611.8	582.1	542.5	522.6	508.6
150°	597.9	601.6	616.4	631.3	616.4	601.6	597.9	572.8	539.4	522.6	510.5
152.5°	586.9	589.7	600.9	612.2	600.9	589.7	586.9	565.4	536.9	522.6	511.6
155°	573.7	575.6	583.0	590.5	583.0	575.6	573.7	556.7	534.0	522.6	514.3
157.5°	562.4	563.6	568.9	574.1	568.9	563.6	562.4	549.1	531.4	522.6	516.8
160°	556.7	557.5	560.5	563.5	560.5	557.5	556.7	545.4	530.2	522.6	518.0
162.5°	551.3	552.0	554.9	557.7	554.9	552.0	551.3	541.8	529.0	522.6	519.3
165°	543.2	544.0	547.0	550.0	547.0	544.0	543.2	536.4	527.3	522.6	521.1
167.5°	539.6	540.0	541.2	542.5	541.2	540.0	539.6	535.1	529.1	526.1	524.9
170°	539.6	539.6	539.6	539.6	539.6	539.6	539.6	535.1	529.1	526.1	526.1
172.5°	536.8	536.6	535.5	534.3	535.5	536.6	536.8	533.2	528.5	526.1	526.1
175°	532.9	532.9	532.9	532.9	532.9	532.9	532.9	530.7	527.7	526.1	526.8
177.5°	532.2	531.9	530.7	529.4	530.7	531.9	532.2	530.4	528.0	526.8	527.4
180°	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4	529.4



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CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	605.5	605.5	605.5	605.5	605.5
2.5°	598.1	600.9	602.6	604.9	610.6
5°	575.1	586.0	589.4	598.1	608.3
7.5°	524.7	557.9	567.1	587.7	603.8
10°	476.0	509.2	525.3	574.0	598.1
12.5°	451.4	470.9	481.7	549.9	590.0
15°	435.9	449.7	457.7	517.9	580.8
17.5°	423.9	433.6	439.4	486.3	568.3
20°	416.5	421.0	426.2	463.4	553.9
22.5°	411.3	408.4	412.5	447.4	534.4
25°	407.8	397.0	401.5	434.8	511.5
27.5°	410.8	386.7	388.4	423.3	487.5
30°	411.3	374.0	374.6	411.3	460.5
32.5°	407.2	360.9	361.5	396.4	430.2
35°	397.5	345.4	344.8	379.2	389.0
37.5°	384.4	328.8	328.8	360.3	343.7
40°	368.3	312.2	313.9	335.7	303.6
42.5°	348.8	294.4	296.7	303.0	273.8
45°	327.6	277.2	279.0	256.1	250.9
47.5°	304.2	259.5	260.1	212.5	243.4
50°	276.1	241.1	238.9	182.2	242.9
52.5°	251.5	221.1	214.2	164.9	220.5
55°	227.4	200.0	185.0	151.8	204.5
57.5°	206.2	172.4	158.1	136.3	201.1
60°	186.7	145.5	134.6	119.7	184.5
62.5°	170.7	125.5	123.2	108.3	167.2
65°	153.5	111.7	111.1	98.6	142.0
67.5°	136.9	102.5	102.0	89.3	108.3
70°	119.2	92.8	91.6	79.6	80.2
72.5°	100.8	81.9	80.8	71.6	66.5
75°	82.5	69.3	68.8	62.4	53.8
77.5°	64.7	55.0	56.1	50.4	39.5
80°	46.4	40.1	41.3	36.1	29.8
82.5°	30.9	26.4	27.5	22.9	20.1
85°	17.2	14.9	15.5	12.0	9.1
87.5°	8.0	6.8	6.8	4.6	2.9
90°	15.6	9.9	9.2	6.4	3.6
92.5°	96.4	68.6	62.5	38.4	14.2
95°	237.2	133.6	122.6	78.3	34.1
97.5°	319.5	146.7	137.0	98.0	58.9
100°	349.5	157.8	148.9	113.5	78.2
102.5°	363.3	168.8	160.5	127.5	94.5
105°	373.4	185.1	178.1	150.2	122.2
107.5°	375.3	209.3	202.8	176.7	150.7
110°	372.4	222.8	216.9	193.4	169.8



TEST NUMBER: P935031

CATALOG NUMBER: SQ4-FA-100U-050D-92765-1D-UNV-STD-W-4-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	372.6	239.1	233.4	211.1	188.7
115°	376.0	263.6	258.4	237.7	217.0
117.5°	383.0	287.4	282.7	263.9	245.1
120°	388.6	301.3	296.8	279.1	261.4
122.5°	396.8	317.7	313.2	295.4	277.5
125°	407.8	338.6	334.5	318.2	302.0
127.5°	418.9	358.8	354.7	338.2	321.8
130°	426.9	372.3	367.9	350.2	332.5
132.5°	433.4	383.3	378.9	361.2	343.5
135°	440.6	396.1	392.1	376.0	359.9
137.5°	451.2	412.5	408.4	392.6	376.6
140°	457.7	423.5	419.8	405.1	390.4
142.5°	463.2	431.7	428.3	414.7	401.1
145°	470.3	444.1	441.1	429.3	417.4
147.5°	480.7	459.7	456.8	445.3	433.8
150°	486.2	467.9	465.2	454.8	444.4
152.5°	489.7	473.2	471.2	463.3	455.4
155°	497.5	485.0	483.5	477.6	471.8
157.5°	505.3	496.7	495.2	489.6	483.9
160°	508.9	502.0	500.9	496.5	492.1
162.5°	512.6	507.7	506.8	503.5	500.2
165°	518.1	515.8	515.0	512.0	509.1
167.5°	522.4	520.5	520.2	518.7	517.3
170°	525.9	525.8	525.5	524.0	522.6
172.5°	526.1	526.1	526.1	525.8	525.5
175°	528.3	529.4	529.4	529.4	529.4
177.5°	528.5	529.4	529.4	529.4	529.4
180°	529.4	529.4	529.4	529.4	529.4



TEST NUMBER: P935031
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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	8.77	9.48	9.87	10.58	12.09	11.56	12.28	12.67	13.38	14.89
	3H	9.23	9.87	10.34	10.98	12.51	12.89	13.53	14.00	14.64	16.17
	4H	9.42	10.02	10.54	11.13	12.67	13.32	13.93	14.44	15.04	16.57
	6H	9.53	10.09	10.66	11.20	12.75	13.59	14.15	14.72	15.26	16.81
	8H	9.52	10.06	10.66	11.18	12.72	13.65	14.19	14.79	15.31	16.85
	12H	9.49	10.00	10.63	11.12	12.68	13.68	14.19	14.82	15.31	16.87
4H	2H	9.77	10.38	10.90	11.49	13.03	11.96	12.57	13.09	13.67	15.21
	3H	10.79	11.29	11.92	12.43	13.98	13.44	13.95	14.57	15.08	16.63
	4H	11.06	11.52	12.19	12.64	14.21	13.95	14.42	15.09	15.54	17.11
	6H	11.17	11.57	12.32	12.72	14.28	14.30	14.70	15.45	15.85	17.41
	8H	11.18	11.55	12.32	12.69	14.26	14.40	14.77	15.55	15.91	17.49
	12H	11.14	11.47	12.30	12.62	14.20	14.45	14.78	15.61	15.93	17.52
8H	4H	11.49	11.86	12.64	13.00	14.58	14.07	14.44	15.21	15.58	17.16
	6H	11.75	12.06	12.91	13.24	14.81	14.49	14.80	15.65	15.98	17.55
	8H	11.79	12.06	12.96	13.22	14.81	14.64	14.90	15.81	16.06	17.66
	12H	11.77	12.00	12.94	13.16	14.79	14.72	14.96	15.89	16.11	17.74
12H	4H	11.49	11.83	12.65	12.98	14.56	14.03	14.36	15.19	15.51	17.09
	6H	11.81	12.07	12.98	13.23	14.83	14.49	14.75	15.66	15.91	17.51
	8H	11.87	12.10	13.04	13.26	14.89	14.64	14.87	15.81	16.03	17.66