

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: P935459

Luminaire Tested: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

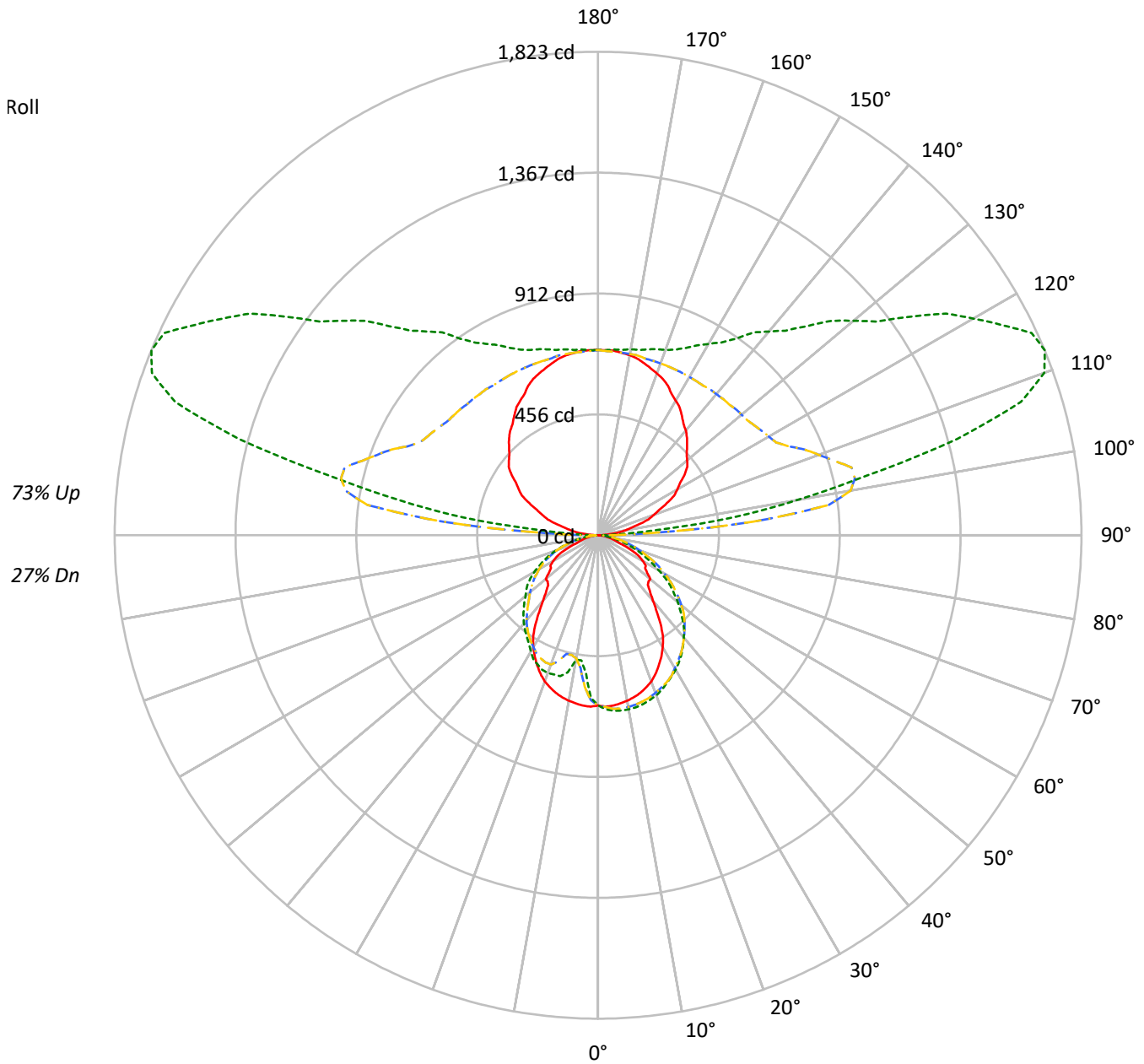
Test Method: LM-79-2019  
Report Number: P935459  
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6193.1 lumens  
Efficiency: N/A  
Efficacy: 130.1 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): 47.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P935459  
CATALOG NUMBER: SQ4-FA-125U-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	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27	
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29				23	
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19	
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16	
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14	
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12	
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14				10	
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12				9	
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11				8	
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10				7	
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9				7	

**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	0.9
10°-20°	164.5	2.7
20°-30°	254.2	4.1
30°-40°	303.5	4.9
40°-50°	305.3	4.9
50°-60°	265.6	4.3
60°-70°	188.3	3.0
70°-80°	99.6	1.6
80°-90°	27.5	0.4
90°-100°	340.4	5.5
100°-110°	894.9	14.4
110°-120°	927.9	15.0
120°-130°	744.3	12.0
130°-140°	584.0	9.4
140°-150°	448.2	7.2
150°-160°	322.8	5.2
160°-170°	197.5	3.2
170°-180°	66.7	1.1
0°-30°	476.6	7.7
0°-40°	780.1	12.6
0°-60°	1350.9	21.8
0°-90°	1666.4	26.9
90°-120°	2163.2	34.9
90°-150°	3939.7	63.6
90°-180°	4527.0	73.1
0°-180°	6193.1	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°	5	18	5	18	5	4
95°	45	206	45	206	45	50
105°	161	1401	161	1401	161	171
115°	286	1804	286	1804	286	283
125°	398	1437	398	1437	398	354
135°	475	1115	475	1115	475	367
145°	551	904	551	904	551	345
155°	622	779	622	779	622	286
165°	672	726	672	726	672	190
175°	698	703	698	703	698	66
180°	698	698	698	698	698	



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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°	4.7	8.4	12.2	13.1	20.6	30.6	35.6	31.6	23.7	17.8	17.8
92.5°	18.7	50.6	82.5	90.4	127.2	176.1	200.6	175.8	126.3	89.1	85.5
95°	45.0	103.3	161.7	176.2	312.9	495.1	586.3	523.2	397.0	302.3	291.6
97.5°	77.8	129.2	180.7	193.5	421.4	725.3	877.3	837.4	757.6	697.8	677.4
100°	103.1	149.8	196.4	208.1	461.0	798.2	966.8	969.7	975.6	979.9	955.6
102.5°	124.6	168.2	211.7	222.6	479.1	821.2	992.1	1043.0	1144.7	1220.9	1200.1
105°	161.2	198.1	235.0	244.2	492.6	823.8	989.3	1103.3	1331.1	1502.0	1490.8
107.5°	198.7	233.1	267.5	276.1	495.1	787.1	933.1	1092.1	1409.9	1648.2	1650.9
110°	224.0	255.1	286.0	293.8	491.3	754.6	886.2	1063.9	1419.3	1685.8	1697.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	248.8	278.4	307.9	315.4	491.4	726.2	843.6	1025.5	1389.2	1661.9	1679.8
115°	286.3	313.6	341.0	347.8	496.0	693.6	792.5	967.6	1318.0	1580.8	1605.6
117.5°	323.4	348.2	373.0	379.2	505.3	673.3	757.3	915.4	1231.6	1468.7	1496.2
120°	345.0	368.3	391.7	397.5	512.8	666.5	743.3	887.8	1176.6	1393.3	1420.1
122.5°	366.0	389.6	413.1	419.0	523.5	662.8	732.5	862.6	1122.8	1317.8	1344.3
125°	398.4	419.8	441.3	446.6	538.0	659.9	720.8	831.3	1052.2	1218.0	1242.3
127.5°	424.6	446.2	467.9	473.3	552.5	658.1	710.9	805.8	995.6	1137.9	1158.4
130°	438.6	462.0	485.3	491.1	563.2	659.2	707.2	791.7	960.6	1087.3	1106.2
132.5°	453.2	476.6	499.9	505.7	571.8	659.9	703.9	779.5	930.8	1044.2	1061.1
135°	474.8	496.0	517.2	522.5	581.1	659.2	698.3	761.7	888.3	983.3	997.9
137.5°	496.8	517.8	538.8	544.1	595.1	663.3	697.3	750.8	857.9	938.2	950.1
140°	515.0	534.4	553.8	558.7	603.8	664.0	694.1	740.3	832.8	902.2	913.4
142.5°	529.1	547.0	564.9	569.4	611.0	666.4	694.1	734.7	815.9	876.8	886.4
145°	550.7	566.3	581.9	585.8	620.3	666.4	689.4	722.6	789.0	838.9	846.2
147.5°	572.2	587.4	602.7	606.5	634.1	670.9	689.4	715.5	767.8	807.0	813.1
150°	586.3	600.0	613.8	617.2	641.3	673.3	689.4	711.5	755.6	788.8	793.6
152.5°	600.8	611.3	621.7	624.3	646.0	674.9	689.4	708.2	745.9	774.2	777.9
155°	622.4	630.1	637.8	639.7	656.2	678.3	689.4	704.4	734.4	756.9	759.3
157.5°	638.3	645.8	653.3	655.2	666.6	681.8	689.4	701.0	724.4	741.9	743.6
160°	649.1	654.9	660.8	662.2	671.3	683.3	689.4	699.3	719.3	734.4	735.4
162.5°	659.9	664.2	668.6	669.7	676.2	685.0	689.4	697.8	714.7	727.4	728.3
165°	671.5	675.5	679.5	680.5	683.5	687.4	689.4	695.4	707.5	716.5	717.5
167.5°	682.4	684.2	686.1	686.6	689.1	692.4	694.1	698.1	705.9	711.9	712.4
170°	689.4	691.3	693.2	693.6	693.8	694.0	694.1	698.1	705.9	711.9	711.9
172.5°	693.2	693.5	694.0	694.1	694.1	694.1	694.1	697.2	703.4	708.1	707.7
175°	698.3	698.3	698.3	698.3	696.9	695.0	694.1	696.1	700.0	702.9	702.9
177.5°	698.3	698.3	698.3	698.3	697.2	695.7	695.0	696.5	699.7	702.0	701.6
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



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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°	17.8	17.8	17.8	17.8	17.8	23.7	31.6	35.6	30.6	20.6	13.1
92.5°	71.3	57.2	71.3	85.5	89.1	126.3	175.8	200.6	176.1	127.2	90.4
95°	248.6	205.7	248.6	291.6	302.3	397.0	523.2	586.3	495.1	312.9	176.2
97.5°	595.8	514.1	595.8	677.4	697.8	757.6	837.4	877.3	725.3	421.4	193.5
100°	858.4	761.1	858.4	955.6	979.9	975.6	969.7	966.8	798.2	461.0	208.1
102.5°	1116.7	1033.4	1116.7	1200.1	1220.9	1144.7	1043.0	992.1	821.2	479.1	222.6
105°	1446.1	1401.3	1446.1	1490.8	1502.0	1331.1	1103.3	989.3	823.8	492.6	244.2
107.5°	1661.8	1672.6	1661.8	1650.9	1648.2	1409.9	1092.1	933.1	787.1	495.1	276.1
110°	1744.1	1790.7	1744.1	1697.4	1685.8	1419.3	1063.9	886.2	754.6	491.3	293.8





TEST NUMBER: P935459

CATALOG NUMBER: SQ4-FA-125U-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°	1751.4	1823.1	1751.4	1679.8	1661.9	1389.2	1025.5	843.6	726.2	491.4	315.4
115°	1705.0	1804.3	1705.0	1605.6	1580.8	1318.0	967.6	792.5	693.6	496.0	347.8
117.5°	1606.5	1716.6	1606.5	1496.2	1468.7	1231.6	915.4	757.3	673.3	505.3	379.2
120°	1527.1	1634.2	1527.1	1420.1	1393.3	1176.6	887.8	743.3	666.5	512.8	397.5
122.5°	1449.8	1555.4	1449.8	1344.3	1317.8	1122.8	862.6	732.5	662.8	523.5	419.0
125°	1339.5	1436.9	1339.5	1242.3	1218.0	1052.2	831.3	720.8	659.9	538.0	446.6
127.5°	1240.4	1322.5	1240.4	1158.4	1137.9	995.6	805.8	710.9	658.1	552.5	473.3
130°	1182.0	1257.9	1182.0	1106.2	1087.3	960.6	791.7	707.2	659.2	563.2	491.1
132.5°	1129.0	1196.9	1129.0	1061.1	1044.2	930.8	779.5	703.9	659.9	571.8	505.7
135°	1056.4	1114.9	1056.4	997.9	983.3	888.3	761.7	698.3	659.2	581.1	522.5
137.5°	998.1	1046.0	998.1	950.1	938.2	857.9	750.8	697.3	663.3	595.1	544.1
140°	958.1	1002.9	958.1	913.4	902.2	832.8	740.3	694.1	664.0	603.8	558.7
142.5°	925.0	963.5	925.0	886.4	876.8	815.9	734.7	694.1	666.4	611.0	569.4
145°	875.4	904.5	875.4	846.2	838.9	789.0	722.6	689.4	666.4	620.3	585.8
147.5°	837.2	861.4	837.2	813.1	807.0	767.8	715.5	689.4	670.9	634.1	606.5
150°	813.3	832.8	813.3	793.6	788.8	755.6	711.5	689.4	673.3	641.3	617.2
152.5°	792.6	807.5	792.6	777.9	774.2	745.9	708.2	689.4	674.9	646.0	624.3
155°	769.1	778.9	769.1	759.3	756.9	734.4	704.4	689.4	678.3	656.2	639.7
157.5°	750.5	757.3	750.5	743.6	741.9	724.4	701.0	689.4	681.8	666.6	655.2
160°	739.3	743.3	739.3	735.4	734.4	719.3	699.3	689.4	683.3	671.3	662.2
162.5°	732.1	735.8	732.1	728.3	727.4	714.7	697.8	689.4	685.0	676.2	669.7
165°	721.5	725.5	721.5	717.5	716.5	707.5	695.4	689.4	687.4	683.5	680.5
167.5°	714.0	715.6	714.0	712.4	711.9	705.9	698.1	694.1	692.4	689.1	686.6
170°	711.9	711.9	711.9	711.9	711.9	705.9	698.1	694.1	694.0	693.8	693.6
172.5°	706.3	704.8	706.3	707.7	708.1	703.4	697.2	694.1	694.1	694.1	694.1
175°	702.9	702.9	702.9	702.9	702.9	700.0	696.1	694.1	695.0	696.9	698.3
177.5°	700.0	698.3	700.0	701.6	702.0	699.7	696.5	695.0	695.7	697.2	698.3
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935459

CATALOG NUMBER: SQ4-FA-125U-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°	12.2	8.4	4.7	8.4	12.2	13.1	20.6	30.6	35.6	31.6	23.7
92.5°	82.5	50.6	18.7	50.6	82.5	90.4	127.2	176.1	200.6	175.8	126.3
95°	161.7	103.3	45.0	103.3	161.7	176.2	312.9	495.1	586.3	523.2	397.0
97.5°	180.7	129.2	77.8	129.2	180.7	193.5	421.4	725.3	877.3	837.4	757.6
100°	196.4	149.8	103.1	149.8	196.4	208.1	461.0	798.2	966.8	969.7	975.6
102.5°	211.7	168.2	124.6	168.2	211.7	222.6	479.1	821.2	992.1	1043.0	1144.7
105°	235.0	198.1	161.2	198.1	235.0	244.2	492.6	823.8	989.3	1103.3	1331.1
107.5°	267.5	233.1	198.7	233.1	267.5	276.1	495.1	787.1	933.1	1092.1	1409.9
110°	286.0	255.1	224.0	255.1	286.0	293.8	491.3	754.6	886.2	1063.9	1419.3



TEST NUMBER: P935459

CATALOG NUMBER: SQ4-FA-125U-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°	307.9	278.4	248.8	278.4	307.9	315.4	491.4	726.2	843.6	1025.5	1389.2
115°	341.0	313.6	286.3	313.6	341.0	347.8	496.0	693.6	792.5	967.6	1318.0
117.5°	373.0	348.2	323.4	348.2	373.0	379.2	505.3	673.3	757.3	915.4	1231.6
120°	391.7	368.3	345.0	368.3	391.7	397.5	512.8	666.5	743.3	887.8	1176.6
122.5°	413.1	389.6	366.0	389.6	413.1	419.0	523.5	662.8	732.5	862.6	1122.8
125°	441.3	419.8	398.4	419.8	441.3	446.6	538.0	659.9	720.8	831.3	1052.2
127.5°	467.9	446.2	424.6	446.2	467.9	473.3	552.5	658.1	710.9	805.8	995.6
130°	485.3	462.0	438.6	462.0	485.3	491.1	563.2	659.2	707.2	791.7	960.6
132.5°	499.9	476.6	453.2	476.6	499.9	505.7	571.8	659.9	703.9	779.5	930.8
135°	517.2	496.0	474.8	496.0	517.2	522.5	581.1	659.2	698.3	761.7	888.3
137.5°	538.8	517.8	496.8	517.8	538.8	544.1	595.1	663.3	697.3	750.8	857.9
140°	553.8	534.4	515.0	534.4	553.8	558.7	603.8	664.0	694.1	740.3	832.8
142.5°	564.9	547.0	529.1	547.0	564.9	569.4	611.0	666.4	694.1	734.7	815.9
145°	581.9	566.3	550.7	566.3	581.9	585.8	620.3	666.4	689.4	722.6	789.0
147.5°	602.7	587.4	572.2	587.4	602.7	606.5	634.1	670.9	689.4	715.5	767.8
150°	613.8	600.0	586.3	600.0	613.8	617.2	641.3	673.3	689.4	711.5	755.6
152.5°	621.7	611.3	600.8	611.3	621.7	624.3	646.0	674.9	689.4	708.2	745.9
155°	637.8	630.1	622.4	630.1	637.8	639.7	656.2	678.3	689.4	704.4	734.4
157.5°	653.3	645.8	638.3	645.8	653.3	655.2	666.6	681.8	689.4	701.0	724.4
160°	660.8	654.9	649.1	654.9	660.8	662.2	671.3	683.3	689.4	699.3	719.3
162.5°	668.6	664.2	659.9	664.2	668.6	669.7	676.2	685.0	689.4	697.8	714.7
165°	679.5	675.5	671.5	675.5	679.5	680.5	683.5	687.4	689.4	695.4	707.5
167.5°	686.1	684.2	682.4	684.2	686.1	686.6	689.1	692.4	694.1	698.1	705.9
170°	693.2	691.3	689.4	691.3	693.2	693.6	693.8	694.0	694.1	698.1	705.9
172.5°	694.0	693.5	693.2	693.5	694.0	694.1	694.1	694.1	694.1	697.2	703.4
175°	698.3	698.3	698.3	698.3	698.3	698.3	696.9	695.0	694.1	696.1	700.0
177.5°	698.3	698.3	698.3	698.3	698.3	698.3	697.2	695.7	695.0	696.5	699.7
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935459

CATALOG NUMBER: SQ4-FA-125U-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°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	23.7	31.6	35.6	30.6
92.5°	89.1	85.5	71.3	57.2	71.3	85.5	89.1	126.3	175.8	200.6	176.1
95°	302.3	291.6	248.6	205.7	248.6	291.6	302.3	397.0	523.2	586.3	495.1
97.5°	697.8	677.4	595.8	514.1	595.8	677.4	697.8	757.6	837.4	877.3	725.3
100°	979.9	955.6	858.4	761.1	858.4	955.6	979.9	975.6	969.7	966.8	798.2
102.5°	1220.9	1200.1	1116.7	1033.4	1116.7	1200.1	1220.9	1144.7	1043.0	992.1	821.2
105°	1502.0	1490.8	1446.1	1401.3	1446.1	1490.8	1502.0	1331.1	1103.3	989.3	823.8
107.5°	1648.2	1650.9	1661.8	1672.6	1661.8	1650.9	1648.2	1409.9	1092.1	933.1	787.1
110°	1685.8	1697.4	1744.1	1790.7	1744.1	1697.4	1685.8	1419.3	1063.9	886.2	754.6



TEST NUMBER: P935459

CATALOG NUMBER: SQ4-FA-125U-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°	1661.9	1679.8	1751.4	1823.1	1751.4	1679.8	1661.9	1389.2	1025.5	843.6	726.2
115°	1580.8	1605.6	1705.0	1804.3	1705.0	1605.6	1580.8	1318.0	967.6	792.5	693.6
117.5°	1468.7	1496.2	1606.5	1716.6	1606.5	1496.2	1468.7	1231.6	915.4	757.3	673.3
120°	1393.3	1420.1	1527.1	1634.2	1527.1	1420.1	1393.3	1176.6	887.8	743.3	666.5
122.5°	1317.8	1344.3	1449.8	1555.4	1449.8	1344.3	1317.8	1122.8	862.6	732.5	662.8
125°	1218.0	1242.3	1339.5	1436.9	1339.5	1242.3	1218.0	1052.2	831.3	720.8	659.9
127.5°	1137.9	1158.4	1240.4	1322.5	1240.4	1158.4	1137.9	995.6	805.8	710.9	658.1
130°	1087.3	1106.2	1182.0	1257.9	1182.0	1106.2	1087.3	960.6	791.7	707.2	659.2
132.5°	1044.2	1061.1	1129.0	1196.9	1129.0	1061.1	1044.2	930.8	779.5	703.9	659.9
135°	983.3	997.9	1056.4	1114.9	1056.4	997.9	983.3	888.3	761.7	698.3	659.2
137.5°	938.2	950.1	998.1	1046.0	998.1	950.1	938.2	857.9	750.8	697.3	663.3
140°	902.2	913.4	958.1	1002.9	958.1	913.4	902.2	832.8	740.3	694.1	664.0
142.5°	876.8	886.4	925.0	963.5	925.0	886.4	876.8	815.9	734.7	694.1	666.4
145°	838.9	846.2	875.4	904.5	875.4	846.2	838.9	789.0	722.6	689.4	666.4
147.5°	807.0	813.1	837.2	861.4	837.2	813.1	807.0	767.8	715.5	689.4	670.9
150°	788.8	793.6	813.3	832.8	813.3	793.6	788.8	755.6	711.5	689.4	673.3
152.5°	774.2	777.9	792.6	807.5	792.6	777.9	774.2	745.9	708.2	689.4	674.9
155°	756.9	759.3	769.1	778.9	769.1	759.3	756.9	734.4	704.4	689.4	678.3
157.5°	741.9	743.6	750.5	757.3	750.5	743.6	741.9	724.4	701.0	689.4	681.8
160°	734.4	735.4	739.3	743.3	739.3	735.4	734.4	719.3	699.3	689.4	683.3
162.5°	727.4	728.3	732.1	735.8	732.1	728.3	727.4	714.7	697.8	689.4	685.0
165°	716.5	717.5	721.5	725.5	721.5	717.5	716.5	707.5	695.4	689.4	687.4
167.5°	711.9	712.4	714.0	715.6	714.0	712.4	711.9	705.9	698.1	694.1	692.4
170°	711.9	711.9	711.9	711.9	711.9	711.9	711.9	705.9	698.1	694.1	694.0
172.5°	708.1	707.7	706.3	704.8	706.3	707.7	708.1	703.4	697.2	694.1	694.1
175°	702.9	702.9	702.9	702.9	702.9	702.9	702.9	700.0	696.1	694.1	695.0
177.5°	702.0	701.6	700.0	698.3	700.0	701.6	702.0	699.7	696.5	695.0	695.7
180°	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935459

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-4000K

**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°	20.6	13.1	12.2	8.4	4.7
92.5°	127.2	90.4	82.5	50.6	18.7
95°	312.9	176.2	161.7	103.3	45.0
97.5°	421.4	193.5	180.7	129.2	77.8
100°	461.0	208.1	196.4	149.8	103.1
102.5°	479.1	222.6	211.7	168.2	124.6
105°	492.6	244.2	235.0	198.1	161.2
107.5°	495.1	276.1	267.5	233.1	198.7
110°	491.3	293.8	286.0	255.1	224.0



TEST NUMBER: P935459

CATALOG NUMBER: SQ4-FA-125U-050D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	491.4	315.4	307.9	278.4	248.8
115°	496.0	347.8	341.0	313.6	286.3
117.5°	505.3	379.2	373.0	348.2	323.4
120°	512.8	397.5	391.7	368.3	345.0
122.5°	523.5	419.0	413.1	389.6	366.0
125°	538.0	446.6	441.3	419.8	398.4
127.5°	552.5	473.3	467.9	446.2	424.6
130°	563.2	491.1	485.3	462.0	438.6
132.5°	571.8	505.7	499.9	476.6	453.2
135°	581.1	522.5	517.2	496.0	474.8
137.5°	595.1	544.1	538.8	517.8	496.8
140°	603.8	558.7	553.8	534.4	515.0
142.5°	611.0	569.4	564.9	547.0	529.1
145°	620.3	585.8	581.9	566.3	550.7
147.5°	634.1	606.5	602.7	587.4	572.2
150°	641.3	617.2	613.8	600.0	586.3
152.5°	646.0	624.3	621.7	611.3	600.8
155°	656.2	639.7	637.8	630.1	622.4
157.5°	666.6	655.2	653.3	645.8	638.3
160°	671.3	662.2	660.8	654.9	649.1
162.5°	676.2	669.7	668.6	664.2	659.9
165°	683.5	680.5	679.5	675.5	671.5
167.5°	689.1	686.6	686.1	684.2	682.4
170°	693.8	693.6	693.2	691.3	689.4
172.5°	694.1	694.1	694.0	693.5	693.2
175°	696.9	698.3	698.3	698.3	698.3
177.5°	697.2	698.3	698.3	698.3	698.3
180°	698.3	698.3	698.3	698.3	698.3



TEST NUMBER: P935459  
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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	8.34	9.02	9.47	10.15	11.71	11.14	11.82	12.27	12.95	14.51
	3H	8.80	9.41	9.94	10.55	12.13	12.46	13.07	13.60	14.20	15.79
	4H	8.98	9.57	10.13	10.70	12.29	12.89	13.47	14.04	14.60	16.19
	6H	9.09	9.63	10.25	10.76	12.36	13.15	13.69	14.31	14.83	16.42
	8H	9.09	9.60	10.25	10.75	12.34	13.22	13.73	14.38	14.88	16.47
	12H	9.05	9.54	10.22	10.68	12.30	13.25	13.73	14.41	14.88	16.49
4H	2H	9.34	9.92	10.50	11.06	12.64	11.52	12.11	12.68	13.24	14.83
	3H	10.35	10.84	11.51	11.99	13.59	13.00	13.49	14.17	14.65	16.25
	4H	10.62	11.07	11.78	12.21	13.83	13.52	13.96	14.68	15.11	16.73
	6H	10.73	11.12	11.90	12.29	13.90	13.86	14.25	15.03	15.42	17.02
	8H	10.74	11.09	11.91	12.25	13.88	13.96	14.32	15.13	15.48	17.11
	12H	10.69	11.02	11.88	12.19	13.82	14.00	14.33	15.19	15.50	17.13
8H	4H	11.05	11.41	12.22	12.57	14.20	13.63	13.98	14.80	15.15	16.77
	6H	11.31	11.60	12.50	12.81	14.43	14.05	14.34	15.24	15.55	17.17
	8H	11.35	11.60	12.54	12.79	14.43	14.19	14.45	15.39	15.63	17.27
	12H	11.32	11.55	12.52	12.73	14.40	14.28	14.50	15.48	15.68	17.36
12H	4H	11.05	11.37	12.23	12.55	14.18	13.58	13.91	14.77	15.08	16.71
	6H	11.36	11.62	12.56	12.80	14.45	14.04	14.30	15.24	15.48	17.13
	8H	11.42	11.65	12.62	12.83	14.50	14.19	14.42	15.39	15.60	17.27