

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: P934260

Luminaire Tested: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

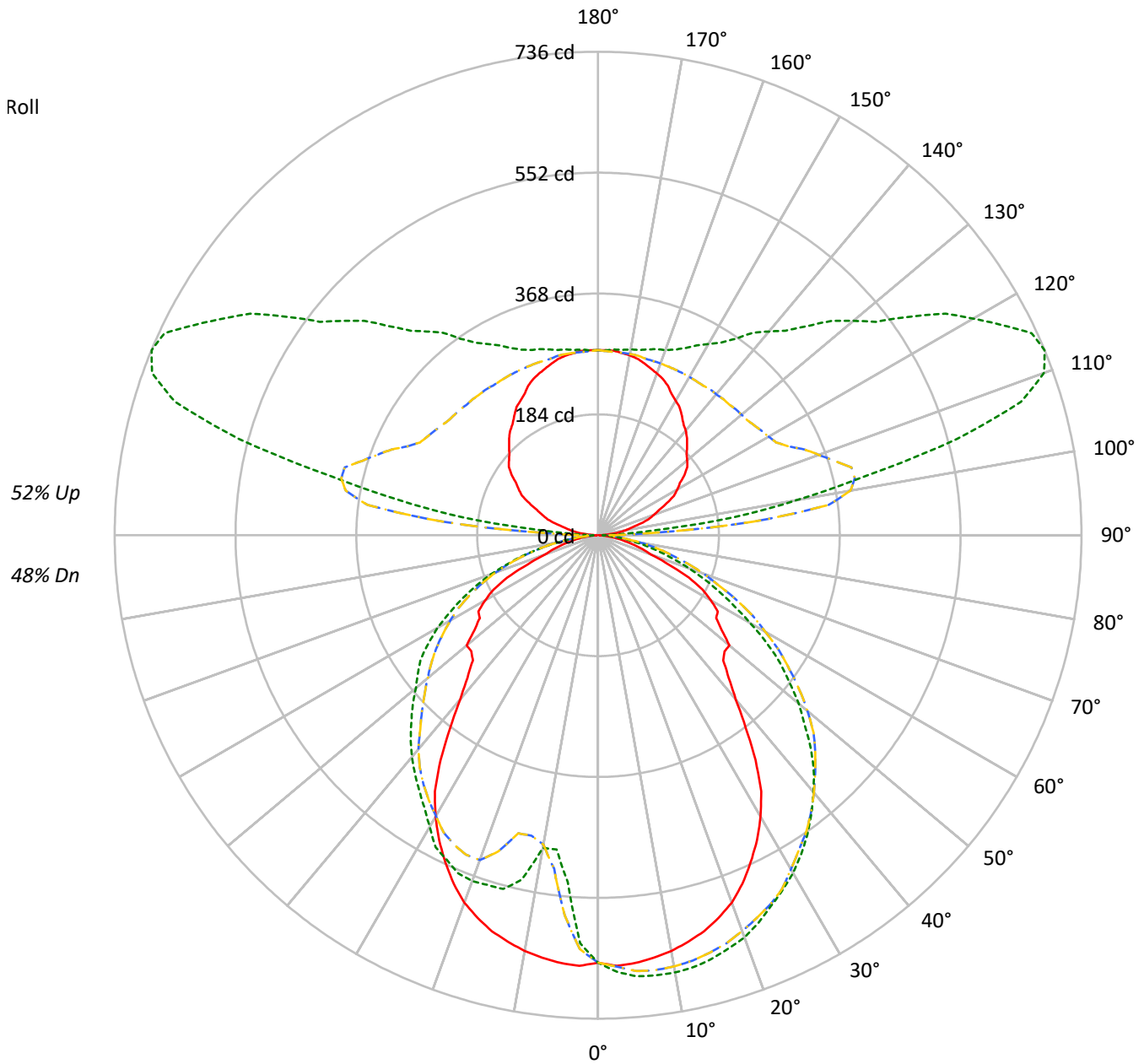
Test Method: LM-79-2019  
Report Number: P934260  
REPORT IS A COMBINATION OF REPORTS P933690 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3514.7 lumens  
Efficiency: N/A  
Efficacy: 123.8 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: General Diffuse  
  
Input Watts (W): 28.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P934260  
CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

### 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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	6037	6037	6037	6037
5°	6075	6094	6075	4791
10°	6028	6003	6028	4292
15°	5955	5873	5955	4904
20°	5823	5718	5823	4914
25°	5562	5493	5562	4810
30°	5226	5307	5226	4581
35°	4652	5072	4652	4330
40°	3869	4793	3869	4140
45°	3450	4468	3450	3922
50°	3659	4080	3659	3702
55°	3432	3663	3432	3576
60°	3526	3110	3526	3275
65°	3180	2571	3180	2874
70°	2188	2049	2188	2410
75°	1895	1514	1895	1814
80°	1498	1002	1498	1090
85°	811	530	811	450

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.7	1.7
10°-20°	166.7	4.7
20°-30°	257.7	7.3
30°-40°	307.7	8.8
40°-50°	309.5	8.8
50°-60°	269.3	7.7
60°-70°	190.9	5.4
70°-80°	101.0	2.9
80°-90°	26.2	0.7
90°-100°	137.4	3.9
100°-110°	361.2	10.3
110°-120°	374.5	10.7
120°-130°	300.4	8.5
130°-140°	235.7	6.7
140°-150°	180.9	5.1
150°-160°	130.3	3.7
160°-170°	79.7	2.3
170°-180°	26.9	0.8
0°-30°	483.2	13.7
0°-40°	790.9	22.5
0°-60°	1369.6	39.0
0°-90°	1687.8	48.0
90°-120°	873.0	24.8
90°-150°	1590.0	45.2
90°-180°	1827.0	52.0
0°-180°	3514.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	651	651	651	651	651	
5°	654	674	654	530	654	62
15°	624	668	624	558	624	176
25°	550	623	550	545	550	252
35°	418	556	418	474	418	259
45°	270	458	270	402	270	216
55°	220	338	220	330	220	202
65°	153	204	153	228	153	146
75°	58	97	58	116	58	61
85°	10	25	10	21	10	13
90°	2	7	2	7	2	2
95°	18	83	18	83	18	20
105°	65	566	65	566	65	69
115°	116	728	116	728	116	114
125°	161	580	161	580	161	143
135°	192	450	192	450	192	148
145°	222	365	222	365	222	139
155°	251	314	251	314	251	115
165°	271	293	271	293	271	76
175°	282	284	282	284	282	27
180°	282	282	282	282	282	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	656.1	656.1	659.7	661.0	661.0	659.2	657.3	659.2	664.7	666.5	665.9
5°	653.6	658.5	665.3	666.5	667.8	667.2	665.9	667.2	673.3	674.5	675.1
7.5°	648.7	657.9	666.5	668.4	670.2	668.4	667.8	669.0	675.1	676.3	676.3
10°	642.6	655.4	665.3	666.5	668.4	666.5	666.5	669.0	675.1	676.3	677.0
12.5°	633.9	651.7	661.0	662.2	664.7	664.0	663.5	665.9	672.1	673.3	673.3
15°	624.0	645.0	653.6	654.9	659.2	657.9	657.9	660.4	667.2	669.0	668.4
17.5°	610.5	636.4	646.2	648.1	651.2	650.6	651.2	653.6	659.7	661.0	661.7
20°	595.1	624.7	636.4	638.3	641.3	641.3	641.3	644.4	650.6	653.0	653.0
22.5°	574.2	612.4	624.7	626.0	629.6	629.6	630.8	635.1	640.6	641.3	641.3
25°	549.6	598.8	609.3	613.0	616.7	618.5	620.4	622.8	624.7	624.0	624.7
27.5°	523.7	581.6	595.1	597.6	602.6	604.4	606.9	607.4	608.1	609.9	608.7
30°	494.8	557.6	577.9	580.4	588.3	589.6	587.1	588.3	591.5	592.6	593.9
32.5°	462.2	521.9	560.1	565.6	573.0	569.3	568.7	570.5	575.5	575.5	576.7
35°	417.9	494.2	543.5	548.4	553.9	549.6	552.1	552.6	555.8	557.6	556.9
37.5°	369.3	470.2	526.2	529.9	534.2	528.7	532.4	534.2	536.7	535.5	535.5
40°	326.1	432.7	505.9	508.4	512.1	507.8	511.4	512.7	513.9	512.7	512.1
42.5°	294.2	391.4	484.4	487.5	485.0	488.0	489.3	491.8	489.9	487.5	487.5
45°	269.5	380.4	461.0	464.6	461.0	465.9	467.7	467.7	462.2	461.0	460.3
47.5°	261.5	358.2	437.6	437.6	435.7	441.9	445.0	440.7	435.2	433.2	433.2
50°	261.0	333.6	405.6	403.1	411.8	419.1	416.1	411.8	407.5	400.7	400.7
52.5°	236.9	303.4	364.3	373.6	387.1	391.4	386.5	382.2	374.8	371.8	369.3
55°	219.7	272.0	326.8	345.2	359.5	365.0	355.7	351.4	340.4	338.5	337.3
57.5°	216.0	226.5	292.4	315.7	332.9	332.4	326.8	318.8	309.5	307.7	307.2
60°	198.2	163.7	255.4	283.1	300.9	299.1	294.2	286.8	278.2	277.0	275.8
62.5°	179.7	118.7	213.5	244.9	270.2	269.5	265.3	254.2	248.1	244.9	242.5
65°	152.6	99.7	152.1	203.7	240.1	241.3	232.0	224.0	217.2	213.5	212.9
67.5°	116.4	81.2	102.8	169.9	211.1	209.9	198.2	194.5	185.8	184.0	180.3
70°	86.2	54.1	71.4	137.8	182.8	179.7	170.5	166.2	158.2	153.9	151.4
72.5°	71.4	43.7	52.3	107.1	153.9	150.1	142.2	137.3	130.5	126.8	124.3
75°	57.8	46.2	40.0	79.4	124.9	122.5	115.1	110.1	104.6	99.7	100.3
77.5°	42.5	43.0	32.0	58.5	99.1	95.4	91.1	85.0	82.5	77.5	77.5
80°	32.0	33.9	24.0	40.0	71.4	71.4	67.7	63.4	59.1	56.6	56.6
82.5°	21.6	21.6	17.8	25.2	48.6	46.8	44.3	43.0	40.7	39.4	39.4
85°	9.8	12.3	11.1	15.4	26.4	27.7	27.7	26.4	25.9	24.6	25.2
87.5°	3.1	5.5	6.8	8.6	13.6	14.1	14.8	14.8	14.8	15.4	15.4
90°	1.9	3.4	5.0	5.3	8.4	12.4	14.4	12.8	9.5	7.2	7.2
92.5°	7.5	20.4	33.3	36.5	51.3	71.0	80.9	70.9	50.9	36.0	34.5
95°	18.2	41.7	65.2	71.1	126.3	199.8	236.6	211.1	160.1	122.0	117.6
97.5°	31.4	52.1	72.9	78.1	170.0	292.7	354.0	338.0	305.8	281.6	273.4
100°	41.6	60.4	79.3	84.0	186.0	322.1	390.2	391.4	393.8	395.5	385.7
102.5°	50.3	67.9	85.4	89.8	193.4	331.4	400.4	420.9	462.0	492.7	484.3
105°	65.1	79.9	94.8	98.6	198.8	332.5	399.3	445.3	537.2	606.2	601.7
107.5°	80.2	94.1	107.9	111.4	199.8	317.7	376.6	440.8	569.1	665.2	666.3
110°	90.4	102.9	115.4	118.6	198.3	304.6	357.7	429.4	572.8	680.4	685.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	100.4	112.3	124.3	127.3	198.3	293.1	340.5	413.9	560.6	670.7	678.0
115°	115.5	126.6	137.6	140.3	200.1	279.9	319.8	390.5	531.9	638.0	648.0
117.5°	130.5	140.5	150.5	153.0	203.9	271.7	305.7	369.5	497.0	592.7	603.8
120°	139.2	148.7	158.0	160.4	206.9	269.0	300.0	358.3	474.9	562.4	573.2
122.5°	147.7	157.3	166.7	169.1	211.3	267.5	295.6	348.1	453.2	531.9	542.5
125°	160.8	169.4	178.0	180.2	217.1	266.3	290.9	335.5	424.7	491.6	501.4
127.5°	171.3	180.1	188.9	191.1	223.0	265.7	287.0	325.2	401.8	459.2	467.5
130°	177.0	186.5	195.8	198.2	227.3	266.0	285.4	319.5	387.7	438.8	446.5
132.5°	182.9	192.3	201.7	204.1	230.8	266.3	284.1	314.6	375.6	421.4	428.3
135°	191.6	200.1	208.8	210.9	234.6	266.0	281.8	307.3	358.5	396.8	402.7
137.5°	200.5	209.0	217.5	219.6	240.3	267.7	281.5	303.0	346.2	378.6	383.5
140°	207.9	215.7	223.6	225.5	243.6	268.0	280.1	298.8	336.2	364.1	368.6
142.5°	213.5	220.8	228.0	229.8	246.6	268.9	280.1	296.5	329.3	353.9	357.7
145°	222.3	228.5	234.8	236.4	250.3	269.0	278.2	291.6	318.4	338.5	341.5
147.5°	231.0	237.1	243.2	244.7	255.9	270.8	278.2	288.8	309.9	325.7	328.2
150°	236.6	242.1	247.7	249.1	258.8	271.7	278.2	287.1	305.0	318.3	320.4
152.5°	242.5	246.7	250.9	251.9	260.7	272.4	278.2	285.9	301.1	312.5	313.9
155°	251.2	254.3	257.4	258.1	264.8	273.7	278.2	284.3	296.4	305.5	306.5
157.5°	257.6	260.6	263.7	264.4	269.0	275.1	278.2	282.9	292.4	299.4	300.2
160°	262.0	264.3	266.7	267.2	270.9	275.8	278.2	282.3	290.4	296.4	296.8
162.5°	266.3	268.1	269.8	270.3	272.9	276.5	278.2	281.6	288.4	293.6	293.9
165°	271.1	272.6	274.3	274.7	275.9	277.4	278.2	280.6	285.5	289.2	289.5
167.5°	275.4	276.1	276.9	277.1	278.1	279.4	280.1	281.7	284.9	287.3	287.5
170°	278.2	279.0	279.7	279.9	280.0	280.1	280.1	281.7	284.9	287.3	287.3
172.5°	279.7	279.9	280.1	280.1	280.1	280.1	280.1	281.4	283.8	285.8	285.6
175°	281.8	281.8	281.8	281.8	281.3	280.4	280.1	280.9	282.6	283.8	283.8
177.5°	281.8	281.8	281.8	281.8	281.4	280.8	280.5	281.2	282.5	283.4	283.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	667.2	665.3	667.2	665.9	666.5	664.7	659.2	657.3	659.2	661.0	661.0
5°	675.1	674.0	675.1	675.1	674.5	673.3	667.2	665.9	667.2	667.8	666.5
7.5°	677.6	675.8	677.6	676.3	676.3	675.1	669.0	667.8	668.4	670.2	668.4
10°	677.6	675.8	677.6	677.0	676.3	675.1	669.0	666.5	666.5	668.4	666.5
12.5°	674.5	673.3	674.5	673.3	673.3	672.1	665.9	663.5	664.0	664.7	662.2
15°	669.6	667.8	669.6	668.4	669.0	667.2	660.4	657.9	657.9	659.2	654.9
17.5°	662.2	659.7	662.2	661.7	661.0	659.7	653.6	651.2	650.6	651.2	648.1
20°	653.6	651.7	653.6	653.0	653.0	650.6	644.4	641.3	641.3	641.3	638.3
22.5°	640.1	638.3	640.1	641.3	641.3	640.6	635.1	630.8	629.6	629.6	626.0
25°	624.7	622.8	624.7	624.7	624.0	624.7	622.8	620.4	618.5	616.7	613.0
27.5°	609.9	608.7	609.9	608.7	609.9	608.1	607.4	606.9	604.4	602.6	597.6
30°	595.1	593.9	595.1	593.9	592.6	591.5	588.3	587.1	589.6	588.3	580.4
32.5°	576.7	575.5	576.7	576.7	575.5	575.5	570.5	568.7	569.3	573.0	565.6
35°	557.6	555.8	557.6	556.9	557.6	555.8	552.6	552.1	549.6	553.9	548.4
37.5°	535.5	533.6	535.5	535.5	535.5	536.7	534.2	532.4	528.7	534.2	529.9
40°	512.7	510.2	512.7	512.1	512.7	513.9	512.7	511.4	507.8	512.1	508.4
42.5°	486.8	486.2	486.8	487.5	487.5	489.9	491.8	489.3	488.0	485.0	487.5
45°	459.1	457.9	459.1	460.3	461.0	462.2	467.7	467.7	465.9	461.0	464.6
47.5°	429.6	426.5	429.6	433.2	433.2	435.2	440.7	445.0	441.9	435.7	437.6
50°	398.2	398.8	398.2	400.7	400.7	407.5	411.8	416.1	419.1	411.8	403.1
52.5°	367.4	366.8	367.4	369.3	371.8	374.8	382.2	386.5	391.4	387.1	373.6
55°	336.6	337.9	336.6	337.3	338.5	340.4	351.4	355.7	365.0	359.5	345.2
57.5°	305.9	304.0	305.9	307.2	307.7	309.5	318.8	326.8	332.4	332.9	315.7
60°	270.2	267.7	270.2	275.8	277.0	278.2	286.8	294.2	299.1	300.9	283.1
62.5°	238.8	234.5	238.8	242.5	244.9	248.1	254.2	265.3	269.5	270.2	244.9
65°	205.6	203.7	205.6	212.9	213.5	217.2	224.0	232.0	241.3	240.1	203.7
67.5°	175.4	175.4	175.4	180.3	184.0	185.8	194.5	198.2	209.9	211.1	169.9
70°	147.7	147.1	147.7	151.4	153.9	158.2	166.2	170.5	179.7	182.8	137.8
72.5°	121.2	120.6	121.2	124.3	126.8	130.5	137.3	142.2	150.1	153.9	107.1
75°	97.8	96.6	97.8	100.3	99.7	104.6	110.1	115.1	122.5	124.9	79.4
77.5°	75.1	75.1	75.1	77.5	77.5	82.5	85.0	91.1	95.4	99.1	58.5
80°	56.0	55.4	56.0	56.6	56.6	59.1	63.4	67.7	71.4	71.4	40.0
82.5°	39.4	38.2	39.4	39.4	39.4	40.7	43.0	44.3	46.8	48.6	25.2
85°	24.6	24.6	24.6	25.2	24.6	25.9	26.4	27.7	27.7	26.4	15.4
87.5°	16.0	15.4	16.0	15.4	15.4	14.8	14.8	14.8	14.1	13.6	8.6
90°	7.2	7.2	7.2	7.2	7.2	9.5	12.8	14.4	12.4	8.4	5.3
92.5°	28.8	23.0	28.8	34.5	36.0	50.9	70.9	80.9	71.0	51.3	36.5
95°	100.3	83.1	100.3	117.6	122.0	160.1	211.1	236.6	199.8	126.3	71.1
97.5°	240.4	207.5	240.4	273.4	281.6	305.8	338.0	354.0	292.7	170.0	78.1
100°	346.4	307.2	346.4	385.7	395.5	393.8	391.4	390.2	322.1	186.0	84.0
102.5°	450.7	417.1	450.7	484.3	492.7	462.0	420.9	400.4	331.4	193.4	89.8
105°	583.7	565.6	583.7	601.7	606.2	537.2	445.3	399.3	332.5	198.8	98.6
107.5°	670.7	675.1	670.7	666.3	665.2	569.1	440.8	376.6	317.7	199.8	111.4
110°	703.9	722.7	703.9	685.1	680.4	572.8	429.4	357.7	304.6	198.3	118.6





TEST NUMBER: P934260

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	706.9	735.8	706.9	678.0	670.7	560.6	413.9	340.5	293.1	198.3	127.3
115°	688.1	728.2	688.1	648.0	638.0	531.9	390.5	319.8	279.9	200.1	140.3
117.5°	648.4	692.9	648.4	603.8	592.7	497.0	369.5	305.7	271.7	203.9	153.0
120°	616.3	659.5	616.3	573.2	562.4	474.9	358.3	300.0	269.0	206.9	160.4
122.5°	585.2	627.8	585.2	542.5	531.9	453.2	348.1	295.6	267.5	211.3	169.1
125°	540.6	579.9	540.6	501.4	491.6	424.7	335.5	290.9	266.3	217.1	180.2
127.5°	500.6	533.7	500.6	467.5	459.2	401.8	325.2	287.0	265.7	223.0	191.1
130°	477.1	507.7	477.1	446.5	438.8	387.7	319.5	285.4	266.0	227.3	198.2
132.5°	455.6	483.1	455.6	428.3	421.4	375.6	314.6	284.1	266.3	230.8	204.1
135°	426.4	449.9	426.4	402.7	396.8	358.5	307.3	281.8	266.0	234.6	210.9
137.5°	402.8	422.1	402.8	383.5	378.6	346.2	303.0	281.5	267.7	240.3	219.6
140°	386.7	404.8	386.7	368.6	364.1	336.2	298.8	280.1	268.0	243.6	225.5
142.5°	373.3	388.9	373.3	357.7	353.9	329.3	296.5	280.1	268.9	246.6	229.8
145°	353.3	365.1	353.3	341.5	338.5	318.4	291.6	278.2	269.0	250.3	236.4
147.5°	337.9	347.6	337.9	328.2	325.7	309.9	288.8	278.2	270.8	255.9	244.7
150°	328.3	336.2	328.3	320.4	318.3	305.0	287.1	278.2	271.7	258.8	249.1
152.5°	319.9	325.9	319.9	313.9	312.5	301.1	285.9	278.2	272.4	260.7	251.9
155°	310.5	314.4	310.5	306.5	305.5	296.4	284.3	278.2	273.7	264.8	258.1
157.5°	302.9	305.7	302.9	300.2	299.4	292.4	282.9	278.2	275.1	269.0	264.4
160°	298.4	300.0	298.4	296.8	296.4	290.4	282.3	278.2	275.8	270.9	267.2
162.5°	295.5	297.0	295.5	293.9	293.6	288.4	281.6	278.2	276.5	272.9	270.3
165°	291.2	292.8	291.2	289.5	289.2	285.5	280.6	278.2	277.4	275.9	274.7
167.5°	288.2	288.8	288.2	287.5	287.3	284.9	281.7	280.1	279.4	278.1	277.1
170°	287.3	287.3	287.3	287.3	287.3	284.9	281.7	280.1	280.1	280.0	279.9
172.5°	285.0	284.5	285.0	285.6	285.8	283.8	281.4	280.1	280.1	280.1	280.1
175°	283.8	283.8	283.8	283.8	283.8	282.6	280.9	280.1	280.4	281.3	281.8
177.5°	282.6	281.8	282.6	283.2	283.4	282.5	281.2	280.5	280.8	281.4	281.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P934260

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	659.7	656.1	656.1	649.9	647.4	645.6	642.6	633.3	630.8	628.3	632.1
5°	665.3	658.5	653.6	642.6	633.3	629.6	617.9	595.8	581.0	569.9	563.7
7.5°	666.5	657.9	648.7	631.5	609.3	599.4	563.7	523.2	512.1	502.3	496.0
10°	665.3	655.4	642.6	616.7	564.4	547.1	511.4	485.0	478.2	476.4	478.2
12.5°	661.0	651.7	633.9	590.8	517.6	505.9	485.0	469.6	468.4	471.4	488.0
15°	653.6	645.0	624.0	556.4	491.8	483.2	468.4	462.8	469.6	491.2	541.0
17.5°	646.2	636.4	610.5	522.5	472.1	465.9	455.5	466.6	504.6	533.6	550.2
20°	636.4	624.7	595.1	497.9	457.9	452.3	447.5	497.3	526.2	536.7	545.9
22.5°	624.7	612.4	574.2	480.7	443.2	438.8	441.9	514.6	526.2	533.6	541.6
25°	609.3	598.8	549.6	467.1	431.4	426.5	438.2	512.7	519.4	521.3	537.3
27.5°	595.1	581.6	523.7	454.8	417.3	415.4	441.3	504.6	509.6	511.4	528.7
30°	577.9	557.6	494.8	441.9	402.5	401.9	441.9	494.8	493.6	498.5	515.7
32.5°	560.1	521.9	462.2	425.9	388.4	387.7	437.6	480.0	478.9	485.6	498.5
35°	543.5	494.2	417.9	407.5	370.5	371.1	427.1	462.8	463.4	469.6	477.6
37.5°	526.2	470.2	369.3	387.1	353.3	353.3	413.0	446.8	445.6	447.5	458.5
40°	505.9	432.7	326.1	360.7	337.3	335.4	395.7	429.6	425.3	424.7	440.0
42.5°	484.4	391.4	294.2	325.6	318.8	316.3	374.8	408.6	400.7	402.5	422.2
45°	461.0	380.4	269.5	275.1	299.7	297.9	352.0	384.7	379.1	384.1	404.3
47.5°	437.6	358.2	261.5	228.3	279.4	278.8	326.8	361.3	358.2	363.1	384.7
50°	405.6	333.6	261.0	195.7	256.7	259.1	296.7	338.5	338.5	342.9	365.6
52.5°	364.3	303.4	236.9	177.2	230.2	237.6	270.2	318.8	320.0	324.3	344.7
55°	326.8	272.0	219.7	163.1	198.8	214.8	244.3	298.5	300.9	305.2	323.8
57.5°	292.4	226.5	216.0	146.5	169.9	185.3	221.5	278.8	280.0	283.8	301.6
60°	255.4	163.7	198.2	128.7	144.6	156.3	200.6	255.4	259.7	262.2	277.6
62.5°	213.5	118.7	179.7	116.4	132.3	134.8	183.4	233.3	238.8	240.6	249.9
65°	152.1	99.7	152.6	105.9	119.4	120.0	164.9	210.5	215.4	218.5	225.3
67.5°	102.8	81.2	116.4	96.0	109.6	110.1	147.1	184.0	190.8	193.3	197.6
70°	71.4	54.1	86.2	85.5	98.5	99.7	128.0	160.0	166.2	168.0	170.5
72.5°	52.3	43.7	71.4	76.9	86.8	88.0	108.3	133.0	139.1	141.0	142.2
75°	40.0	46.2	57.8	67.1	73.9	74.4	88.6	108.3	112.6	113.9	114.4
77.5°	32.0	43.0	42.5	54.1	60.3	59.1	69.6	83.7	87.4	87.4	87.4
80°	24.0	33.9	32.0	38.8	44.3	43.0	49.8	59.7	60.9	62.1	61.6
82.5°	17.8	21.6	21.6	24.6	29.5	28.4	33.2	38.8	38.8	38.8	40.0
85°	11.1	12.3	9.8	12.9	16.6	16.0	18.4	20.9	21.6	21.6	20.3
87.5°	6.8	5.5	3.1	5.0	7.3	7.3	8.6	9.3	8.6	8.6	8.6
90°	5.0	3.4	1.9	3.4	5.0	5.3	8.4	12.4	14.4	12.8	9.5
92.5°	33.3	20.4	7.5	20.4	33.3	36.5	51.3	71.0	80.9	70.9	50.9
95°	65.2	41.7	18.2	41.7	65.2	71.1	126.3	199.8	236.6	211.1	160.1
97.5°	72.9	52.1	31.4	52.1	72.9	78.1	170.0	292.7	354.0	338.0	305.8
100°	79.3	60.4	41.6	60.4	79.3	84.0	186.0	322.1	390.2	391.4	393.8
102.5°	85.4	67.9	50.3	67.9	85.4	89.8	193.4	331.4	400.4	420.9	462.0
105°	94.8	79.9	65.1	79.9	94.8	98.6	198.8	332.5	399.3	445.3	537.2
107.5°	107.9	94.1	80.2	94.1	107.9	111.4	199.8	317.7	376.6	440.8	569.1
110°	115.4	102.9	90.4	102.9	115.4	118.6	198.3	304.6	357.7	429.4	572.8



TEST NUMBER: P934260

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	124.3	112.3	100.4	112.3	124.3	127.3	198.3	293.1	340.5	413.9	560.6
115°	137.6	126.6	115.5	126.6	137.6	140.3	200.1	279.9	319.8	390.5	531.9
117.5°	150.5	140.5	130.5	140.5	150.5	153.0	203.9	271.7	305.7	369.5	497.0
120°	158.0	148.7	139.2	148.7	158.0	160.4	206.9	269.0	300.0	358.3	474.9
122.5°	166.7	157.3	147.7	157.3	166.7	169.1	211.3	267.5	295.6	348.1	453.2
125°	178.0	169.4	160.8	169.4	178.0	180.2	217.1	266.3	290.9	335.5	424.7
127.5°	188.9	180.1	171.3	180.1	188.9	191.1	223.0	265.7	287.0	325.2	401.8
130°	195.8	186.5	177.0	186.5	195.8	198.2	227.3	266.0	285.4	319.5	387.7
132.5°	201.7	192.3	182.9	192.3	201.7	204.1	230.8	266.3	284.1	314.6	375.6
135°	208.8	200.1	191.6	200.1	208.8	210.9	234.6	266.0	281.8	307.3	358.5
137.5°	217.5	209.0	200.5	209.0	217.5	219.6	240.3	267.7	281.5	303.0	346.2
140°	223.6	215.7	207.9	215.7	223.6	225.5	243.6	268.0	280.1	298.8	336.2
142.5°	228.0	220.8	213.5	220.8	228.0	229.8	246.6	268.9	280.1	296.5	329.3
145°	234.8	228.5	222.3	228.5	234.8	236.4	250.3	269.0	278.2	291.6	318.4
147.5°	243.2	237.1	231.0	237.1	243.2	244.7	255.9	270.8	278.2	288.8	309.9
150°	247.7	242.1	236.6	242.1	247.7	249.1	258.8	271.7	278.2	287.1	305.0
152.5°	250.9	246.7	242.5	246.7	250.9	251.9	260.7	272.4	278.2	285.9	301.1
155°	257.4	254.3	251.2	254.3	257.4	258.1	264.8	273.7	278.2	284.3	296.4
157.5°	263.7	260.6	257.6	260.6	263.7	264.4	269.0	275.1	278.2	282.9	292.4
160°	266.7	264.3	262.0	264.3	266.7	267.2	270.9	275.8	278.2	282.3	290.4
162.5°	269.8	268.1	266.3	268.1	269.8	270.3	272.9	276.5	278.2	281.6	288.4
165°	274.3	272.6	271.1	272.6	274.3	274.7	275.9	277.4	278.2	280.6	285.5
167.5°	276.9	276.1	275.4	276.1	276.9	277.1	278.1	279.4	280.1	281.7	284.9
170°	279.7	279.0	278.2	279.0	279.7	279.9	280.0	280.1	280.1	281.7	284.9
172.5°	280.1	279.9	279.7	279.9	280.1	280.1	280.1	280.1	280.1	281.4	283.8
175°	281.8	281.8	281.8	281.8	281.8	281.8	281.3	280.4	280.1	280.9	282.6
177.5°	281.8	281.8	281.8	281.8	281.8	281.8	281.4	280.8	280.5	281.2	282.5
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P934260

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6	650.6
2.5°	627.8	626.0	628.3	621.6	628.3	626.0	627.8	632.1	628.3	630.8	633.3
5°	550.8	547.8	538.0	529.9	538.0	547.8	550.8	563.7	569.9	581.0	595.8
7.5°	492.3	489.9	487.5	482.5	487.5	489.9	492.3	496.0	502.3	512.1	523.2
10°	479.4	480.0	483.7	483.2	483.7	480.0	479.4	478.2	476.4	478.2	485.0
12.5°	512.7	518.2	538.5	537.3	538.5	518.2	512.7	488.0	471.4	468.4	469.6
15°	550.8	552.6	556.9	557.6	556.9	552.6	550.8	541.0	491.2	469.6	462.8
17.5°	554.6	555.1	558.2	558.2	558.2	555.1	554.6	550.2	533.6	504.6	466.6
20°	551.4	552.6	558.9	560.1	558.9	552.6	551.4	545.9	536.7	526.2	497.3
22.5°	550.2	552.6	557.6	556.9	557.6	552.6	550.2	541.6	533.6	526.2	514.6
25°	544.1	544.1	544.7	545.3	544.7	544.1	544.1	537.3	521.3	519.4	512.7
27.5°	531.2	532.4	536.0	535.5	536.0	532.4	531.2	528.7	511.4	509.6	504.6
30°	519.4	518.2	515.1	512.7	515.1	518.2	519.4	515.7	498.5	493.6	494.8
32.5°	499.8	496.7	493.6	491.8	493.6	496.7	499.8	498.5	485.6	478.9	480.0
35°	476.4	477.0	476.4	474.5	476.4	477.0	476.4	477.6	469.6	463.4	462.8
37.5°	459.8	461.0	460.3	457.9	460.3	461.0	459.8	458.5	447.5	445.6	446.8
40°	442.5	443.2	442.5	440.7	442.5	443.2	442.5	440.0	424.7	425.3	429.6
42.5°	425.9	425.3	423.4	422.2	423.4	425.3	425.9	422.2	402.5	400.7	408.6
45°	406.8	407.5	403.7	401.9	403.7	407.5	406.8	404.3	384.1	379.1	384.7
47.5°	387.7	387.7	384.7	382.8	384.7	387.7	387.7	384.7	363.1	358.2	361.3
50°	367.4	366.8	362.5	361.8	362.5	366.8	367.4	365.6	342.9	338.5	338.5
52.5°	344.0	344.0	344.7	345.9	344.7	344.0	344.0	344.7	324.3	320.0	318.8
55°	323.8	324.3	328.6	329.9	328.6	324.3	323.8	323.8	305.2	300.9	298.5
57.5°	302.8	302.8	305.9	305.9	305.9	302.8	302.8	301.6	283.8	280.0	278.8
60°	278.8	280.0	282.5	281.9	282.5	280.0	278.8	277.6	262.2	259.7	255.4
62.5°	253.6	254.8	255.4	254.2	255.4	254.8	253.6	249.9	240.6	238.8	233.3
65°	227.1	228.3	229.0	227.7	229.0	228.3	227.1	225.3	218.5	215.4	210.5
67.5°	200.1	199.4	198.8	201.3	198.8	199.4	200.1	197.6	193.3	190.8	184.0
70°	172.3	172.3	171.7	173.0	171.7	172.3	172.3	170.5	168.0	166.2	160.0
72.5°	142.8	142.2	144.6	142.8	144.6	142.2	142.8	142.2	141.0	139.1	133.0
75°	113.9	115.1	113.9	115.7	113.9	115.1	113.9	114.4	113.9	112.6	108.3
77.5°	86.8	88.0	86.8	86.8	86.8	88.0	86.8	87.4	87.4	87.4	83.7
80°	61.6	60.9	60.9	60.3	60.9	60.9	61.6	61.6	62.1	60.9	59.7
82.5°	39.4	38.8	38.8	40.0	38.8	38.8	39.4	40.0	38.8	38.8	38.8
85°	21.6	22.1	20.9	20.9	20.9	22.1	21.6	20.3	21.6	21.6	20.9
87.5°	8.0	7.3	7.3	7.3	7.3	7.3	8.0	8.6	8.6	8.6	9.3
90°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	9.5	12.8	14.4	12.4
92.5°	36.0	34.5	28.8	23.0	28.8	34.5	36.0	50.9	70.9	80.9	71.0
95°	122.0	117.6	100.3	83.1	100.3	117.6	122.0	160.1	211.1	236.6	199.8
97.5°	281.6	273.4	240.4	207.5	240.4	273.4	281.6	305.8	338.0	354.0	292.7
100°	395.5	385.7	346.4	307.2	346.4	385.7	395.5	393.8	391.4	390.2	322.1
102.5°	492.7	484.3	450.7	417.1	450.7	484.3	492.7	462.0	420.9	400.4	331.4
105°	606.2	601.7	583.7	565.6	583.7	601.7	606.2	537.2	445.3	399.3	332.5
107.5°	665.2	666.3	670.7	675.1	670.7	666.3	665.2	569.1	440.8	376.6	317.7
110°	680.4	685.1	703.9	722.7	703.9	685.1	680.4	572.8	429.4	357.7	304.6



TEST NUMBER: P934260

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	670.7	678.0	706.9	735.8	706.9	678.0	670.7	560.6	413.9	340.5	293.1
115°	638.0	648.0	688.1	728.2	688.1	648.0	638.0	531.9	390.5	319.8	279.9
117.5°	592.7	603.8	648.4	692.9	648.4	603.8	592.7	497.0	369.5	305.7	271.7
120°	562.4	573.2	616.3	659.5	616.3	573.2	562.4	474.9	358.3	300.0	269.0
122.5°	531.9	542.5	585.2	627.8	585.2	542.5	531.9	453.2	348.1	295.6	267.5
125°	491.6	501.4	540.6	579.9	540.6	501.4	491.6	424.7	335.5	290.9	266.3
127.5°	459.2	467.5	500.6	533.7	500.6	467.5	459.2	401.8	325.2	287.0	265.7
130°	438.8	446.5	477.1	507.7	477.1	446.5	438.8	387.7	319.5	285.4	266.0
132.5°	421.4	428.3	455.6	483.1	455.6	428.3	421.4	375.6	314.6	284.1	266.3
135°	396.8	402.7	426.4	449.9	426.4	402.7	396.8	358.5	307.3	281.8	266.0
137.5°	378.6	383.5	402.8	422.1	402.8	383.5	378.6	346.2	303.0	281.5	267.7
140°	364.1	368.6	386.7	404.8	386.7	368.6	364.1	336.2	298.8	280.1	268.0
142.5°	353.9	357.7	373.3	388.9	373.3	357.7	353.9	329.3	296.5	280.1	268.9
145°	338.5	341.5	353.3	365.1	353.3	341.5	338.5	318.4	291.6	278.2	269.0
147.5°	325.7	328.2	337.9	347.6	337.9	328.2	325.7	309.9	288.8	278.2	270.8
150°	318.3	320.4	328.3	336.2	328.3	320.4	318.3	305.0	287.1	278.2	271.7
152.5°	312.5	313.9	319.9	325.9	319.9	313.9	312.5	301.1	285.9	278.2	272.4
155°	305.5	306.5	310.5	314.4	310.5	306.5	305.5	296.4	284.3	278.2	273.7
157.5°	299.4	300.2	302.9	305.7	302.9	300.2	299.4	292.4	282.9	278.2	275.1
160°	296.4	296.8	298.4	300.0	298.4	296.8	296.4	290.4	282.3	278.2	275.8
162.5°	293.6	293.9	295.5	297.0	295.5	293.9	293.6	288.4	281.6	278.2	276.5
165°	289.2	289.5	291.2	292.8	291.2	289.5	289.2	285.5	280.6	278.2	277.4
167.5°	287.3	287.5	288.2	288.8	288.2	287.5	287.3	284.9	281.7	280.1	279.4
170°	287.3	287.3	287.3	287.3	287.3	287.3	287.3	284.9	281.7	280.1	280.1
172.5°	285.8	285.6	285.0	284.5	285.0	285.6	285.8	283.8	281.4	280.1	280.1
175°	283.8	283.8	283.8	283.8	283.8	283.8	283.8	282.6	280.9	280.1	280.4
177.5°	283.4	283.2	282.6	281.8	282.6	283.2	283.4	282.5	281.2	280.5	280.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P934260

CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	650.6	650.6	650.6	650.6	650.6
2.5°	642.6	645.6	647.4	649.9	656.1
5°	617.9	629.6	633.3	642.6	653.6
7.5°	563.7	599.4	609.3	631.5	648.7
10°	511.4	547.1	564.4	616.7	642.6
12.5°	485.0	505.9	517.6	590.8	633.9
15°	468.4	483.2	491.8	556.4	624.0
17.5°	455.5	465.9	472.1	522.5	610.5
20°	447.5	452.3	457.9	497.9	595.1
22.5°	441.9	438.8	443.2	480.7	574.2
25°	438.2	426.5	431.4	467.1	549.6
27.5°	441.3	415.4	417.3	454.8	523.7
30°	441.9	401.9	402.5	441.9	494.8
32.5°	437.6	387.7	388.4	425.9	462.2
35°	427.1	371.1	370.5	407.5	417.9
37.5°	413.0	353.3	353.3	387.1	369.3
40°	395.7	335.4	337.3	360.7	326.1
42.5°	374.8	316.3	318.8	325.6	294.2
45°	352.0	297.9	299.7	275.1	269.5
47.5°	326.8	278.8	279.4	228.3	261.5
50°	296.7	259.1	256.7	195.7	261.0
52.5°	270.2	237.6	230.2	177.2	236.9
55°	244.3	214.8	198.8	163.1	219.7
57.5°	221.5	185.3	169.9	146.5	216.0
60°	200.6	156.3	144.6	128.7	198.2
62.5°	183.4	134.8	132.3	116.4	179.7
65°	164.9	120.0	119.4	105.9	152.6
67.5°	147.1	110.1	109.6	96.0	116.4
70°	128.0	99.7	98.5	85.5	86.2
72.5°	108.3	88.0	86.8	76.9	71.4
75°	88.6	74.4	73.9	67.1	57.8
77.5°	69.6	59.1	60.3	54.1	42.5
80°	49.8	43.0	44.3	38.8	32.0
82.5°	33.2	28.4	29.5	24.6	21.6
85°	18.4	16.0	16.6	12.9	9.8
87.5°	8.6	7.3	7.3	5.0	3.1
90°	8.4	5.3	5.0	3.4	1.9
92.5°	51.3	36.5	33.3	20.4	7.5
95°	126.3	71.1	65.2	41.7	18.2
97.5°	170.0	78.1	72.9	52.1	31.4
100°	186.0	84.0	79.3	60.4	41.6
102.5°	193.4	89.8	85.4	67.9	50.3
105°	198.8	98.6	94.8	79.9	65.1
107.5°	199.8	111.4	107.9	94.1	80.2
110°	198.3	118.6	115.4	102.9	90.4



TEST NUMBER: P934260  
 CATALOG NUMBER: SQ4-FA-050U-050D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	198.3	127.3	124.3	112.3	100.4
115°	200.1	140.3	137.6	126.6	115.5
117.5°	203.9	153.0	150.5	140.5	130.5
120°	206.9	160.4	158.0	148.7	139.2
122.5°	211.3	169.1	166.7	157.3	147.7
125°	217.1	180.2	178.0	169.4	160.8
127.5°	223.0	191.1	188.9	180.1	171.3
130°	227.3	198.2	195.8	186.5	177.0
132.5°	230.8	204.1	201.7	192.3	182.9
135°	234.6	210.9	208.8	200.1	191.6
137.5°	240.3	219.6	217.5	209.0	200.5
140°	243.6	225.5	223.6	215.7	207.9
142.5°	246.6	229.8	228.0	220.8	213.5
145°	250.3	236.4	234.8	228.5	222.3
147.5°	255.9	244.7	243.2	237.1	231.0
150°	258.8	249.1	247.7	242.1	236.6
152.5°	260.7	251.9	250.9	246.7	242.5
155°	264.8	258.1	257.4	254.3	251.2
157.5°	269.0	264.4	263.7	260.6	257.6
160°	270.9	267.2	266.7	264.3	262.0
162.5°	272.9	270.3	269.8	268.1	266.3
165°	275.9	274.7	274.3	272.6	271.1
167.5°	278.1	277.1	276.9	276.1	275.4
170°	280.0	279.9	279.7	279.0	278.2
172.5°	280.1	280.1	280.1	279.9	279.7
175°	281.3	281.8	281.8	281.8	281.8
177.5°	281.4	281.8	281.8	281.8	281.8
180°	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P934260  
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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	10.85	11.70	11.83	12.69	13.99	13.65	14.50	14.63	15.48	16.78
	3H	11.33	12.09	12.31	13.08	14.40	14.99	15.74	15.97	16.74	18.06
	4H	11.52	12.24	12.52	13.24	14.57	15.42	16.14	16.42	17.14	18.47
	6H	11.64	12.30	12.65	13.30	14.64	15.70	16.36	16.71	17.36	18.70
	8H	11.64	12.27	12.65	13.29	14.63	15.77	16.40	16.78	17.42	18.76
	12H	11.61	12.21	12.63	13.22	14.58	15.80	16.40	16.82	17.41	18.78
4H	2H	11.88	12.59	12.88	13.59	14.92	14.06	14.78	15.07	15.78	17.11
	3H	12.90	13.50	13.92	14.53	15.87	15.56	16.15	16.57	17.18	18.52
	4H	13.18	13.72	14.20	14.74	16.11	16.08	16.62	17.10	17.64	19.01
	6H	13.30	13.77	14.33	14.82	16.18	16.43	16.90	17.46	17.95	19.31
	8H	13.31	13.75	14.34	14.78	16.16	16.53	16.97	17.57	18.01	19.39
	12H	13.27	13.67	14.33	14.72	16.10	16.58	16.98	17.64	18.03	19.42
8H	4H	13.62	14.06	14.66	15.10	16.48	16.20	16.64	17.23	17.68	19.05
	6H	13.89	14.25	14.94	15.33	16.70	16.63	16.99	17.68	18.07	19.44
	8H	13.93	14.25	14.99	15.31	16.70	16.77	17.09	17.84	18.16	19.55
	12H	13.91	14.19	14.98	15.25	16.69	16.87	17.15	17.93	18.21	19.64
12H	4H	13.63	14.02	14.68	15.08	16.46	16.16	16.56	17.21	17.61	18.99
	6H	13.94	14.26	15.01	15.33	16.72	16.62	16.94	17.69	18.01	19.40
	8H	14.01	14.29	15.08	15.35	16.79	16.78	17.06	17.85	18.12	19.56