

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: P934657

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934657
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

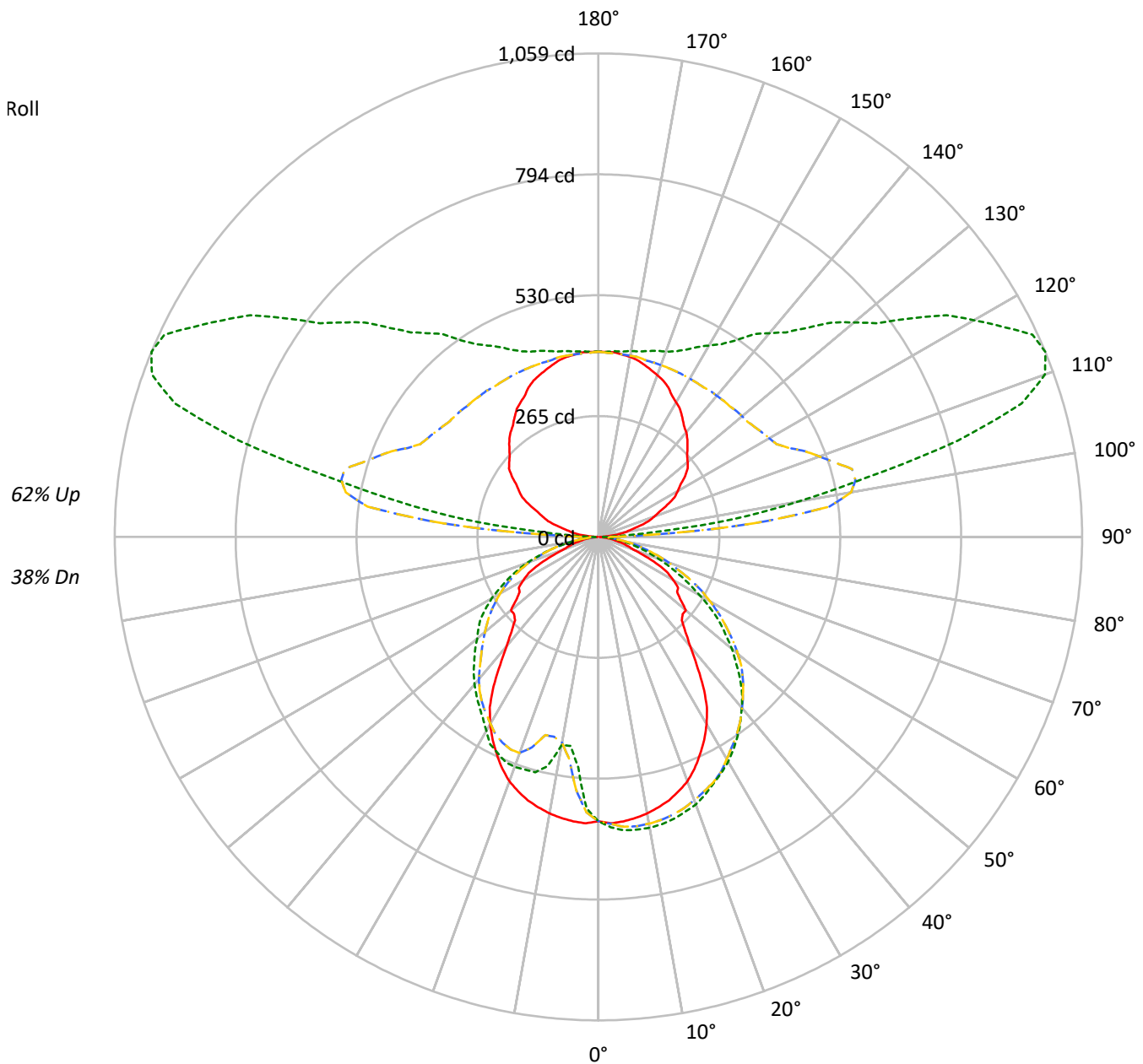
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245.8 lumens
Efficiency: N/A
Efficacy: 123.4 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): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P934657
CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5777	5777	5777	5777
5°	5814	5832	5814	4585
10°	5769	5745	5769	4107
15°	5699	5620	5699	4693
20°	5574	5473	5574	4703
25°	5323	5258	5323	4603
30°	5002	5079	5002	4385
35°	4453	4853	4453	4144
40°	3703	4587	3703	3963
45°	3303	4277	3303	3753
50°	3502	3905	3502	3543
55°	3285	3506	3285	3422
60°	3374	2977	3374	3135
65°	3045	2461	3045	2750
70°	2094	1962	2094	2307
75°	1813	1450	1813	1737
80°	1437	958	1437	1043
85°	778	506	778	431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5072 cd/sqm



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.3
10°-20°	159.6	3.8
20°-30°	246.7	5.8
30°-40°	294.5	6.9
40°-50°	296.2	7.0
50°-60°	257.7	6.1
60°-70°	182.7	4.3
70°-80°	96.7	2.3
80°-90°	25.6	0.6
90°-100°	197.8	4.7
100°-110°	519.9	12.2
110°-120°	539.1	12.7
120°-130°	432.4	10.2
130°-140°	339.3	8.0
140°-150°	260.4	6.1
150°-160°	187.5	4.4
160°-170°	114.7	2.7
170°-180°	38.8	0.9
0°-30°	462.4	10.9
0°-40°	756.9	17.8
0°-60°	1310.8	30.9
0°-90°	1615.9	38.1
90°-120°	1256.7	29.6
90°-150°	2288.8	53.9
90°-180°	2630.0	61.9
0°-180°	4245.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	623	623	623	623	623	
5°	626	645	626	507	626	59
15°	597	639	597	534	597	168
25°	526	596	526	522	526	242
35°	400	532	400	454	400	247
45°	258	438	258	385	258	207
55°	210	323	210	316	210	193
65°	146	195	146	218	146	140
75°	55	92	55	111	55	58
85°	9	24	9	20	9	13
90°	3	10	3	10	3	3
95°	26	120	26	120	26	29
105°	94	814	94	814	94	99
115°	166	1048	166	1048	166	164
125°	231	835	231	835	231	205
135°	276	648	276	648	276	213
145°	320	526	320	526	320	200
155°	362	452	362	452	362	166
165°	390	422	390	422	390	110
175°	406	408	406	408	406	39
180°	406	406	406	406	406	



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	627.9	627.9	631.4	632.6	632.6	630.9	629.1	630.9	636.2	637.9	637.3
5°	625.5	630.3	636.8	637.9	639.1	638.5	637.3	638.5	644.4	645.6	646.2
7.5°	620.9	629.7	637.9	639.7	641.4	639.7	639.1	640.3	646.2	647.3	647.3
10°	615.0	627.3	636.8	637.9	639.7	637.9	637.9	640.3	646.2	647.3	647.9
12.5°	606.7	623.8	632.6	633.8	636.2	635.5	635.0	637.3	643.3	644.4	644.4
15°	597.2	617.3	625.5	626.8	630.9	629.7	629.7	632.0	638.5	640.3	639.7
17.5°	584.3	609.1	618.5	620.3	623.2	622.6	623.2	625.5	631.4	632.6	633.3
20°	569.6	597.9	609.1	610.9	613.8	613.8	613.8	616.7	622.6	625.0	625.0
22.5°	549.6	586.1	597.9	599.1	602.6	602.6	603.7	607.9	613.1	613.8	613.8
25°	526.0	573.1	583.1	586.7	590.2	592.0	593.7	596.1	597.9	597.2	597.9
27.5°	501.2	556.7	569.6	571.9	576.7	578.4	580.8	581.3	582.0	583.7	582.6
30°	473.6	533.7	553.1	555.4	563.1	564.3	561.9	563.1	566.1	567.2	568.4
32.5°	442.4	499.5	536.0	541.3	548.4	544.9	544.3	546.0	550.8	550.8	551.9
35°	400.0	473.0	520.1	524.9	530.1	526.0	528.4	528.9	531.9	533.7	533.0
37.5°	353.4	450.0	503.6	507.1	511.3	506.0	509.5	511.3	513.6	512.5	512.5
40°	312.1	414.1	484.2	486.6	490.1	486.0	489.5	490.7	491.8	490.7	490.1
42.5°	281.6	374.6	463.6	466.6	464.2	467.1	468.3	470.7	468.8	466.6	466.6
45°	258.0	364.1	441.2	444.7	441.2	445.9	447.7	447.7	442.4	441.2	440.6
47.5°	250.3	342.8	418.8	418.8	417.0	422.9	425.9	421.8	416.5	414.6	414.6
50°	249.8	319.3	388.2	385.8	394.1	401.1	398.2	394.1	390.0	383.5	383.5
52.5°	226.8	290.4	348.7	357.6	370.5	374.6	369.9	365.8	358.7	355.8	353.4
55°	210.3	260.3	312.8	330.4	344.0	349.3	340.4	336.3	325.8	324.0	322.8
57.5°	206.8	216.8	279.8	302.1	318.6	318.1	312.8	305.1	296.3	294.5	294.0
60°	189.7	156.7	244.4	271.0	288.0	286.2	281.6	274.5	266.2	265.1	263.9
62.5°	172.0	113.7	204.4	234.4	258.6	258.0	253.9	243.3	237.4	234.4	232.0
65°	146.1	95.4	145.5	195.0	229.8	230.9	222.0	214.4	207.9	204.4	203.8
67.5°	111.4	77.7	98.4	162.6	202.0	200.9	189.7	186.1	177.9	176.1	172.6
70°	82.5	51.8	68.3	131.9	175.0	172.0	163.2	159.1	151.4	147.3	144.9
72.5°	68.3	41.8	50.1	102.5	147.3	143.7	136.0	131.4	124.9	121.4	119.0
75°	55.3	44.2	38.3	76.0	119.5	117.3	110.1	105.4	100.1	95.4	96.0
77.5°	40.7	41.2	30.7	55.9	94.9	91.3	87.2	81.3	79.0	74.2	74.2
80°	30.7	32.4	23.0	38.3	68.3	68.3	64.8	60.7	56.6	54.2	54.2
82.5°	20.6	20.6	17.0	24.2	46.5	44.8	42.4	41.2	38.9	37.7	37.7
85°	9.4	11.8	10.6	14.8	25.3	26.5	26.5	25.3	24.8	23.5	24.2
87.5°	3.0	5.3	6.5	8.3	13.0	13.5	14.1	14.1	14.1	14.8	14.8
90°	2.7	4.9	7.1	7.6	12.0	17.8	20.7	18.4	13.8	10.4	10.4
92.5°	10.9	29.4	47.9	52.5	73.9	102.3	116.6	102.1	73.3	51.7	49.7
95°	26.2	60.1	94.0	102.4	181.8	287.6	340.6	303.9	230.6	175.6	169.3
97.5°	45.2	75.1	105.0	112.4	244.9	421.4	509.7	486.5	440.2	405.4	393.6
100°	59.9	87.0	114.1	120.9	267.8	463.7	561.7	563.3	566.8	569.3	555.2
102.5°	72.5	97.8	123.0	129.3	278.3	477.1	576.4	605.9	665.0	709.2	697.1
105°	93.6	115.1	136.5	141.8	286.2	478.6	574.8	641.0	773.3	872.6	866.1
107.5°	115.4	135.4	155.4	160.4	287.6	457.2	542.1	634.4	819.0	957.5	959.1
110°	130.2	148.2	166.3	170.7	285.4	438.4	514.9	618.1	824.5	979.3	986.1



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.6	161.8	178.9	183.2	285.5	421.9	490.1	595.8	807.0	965.4	975.9
115°	166.4	182.2	198.1	202.0	288.2	403.0	460.4	562.2	765.7	918.4	932.8
117.5°	187.9	202.3	216.7	220.3	293.5	391.1	439.9	531.8	715.5	853.3	869.3
120°	200.4	214.0	227.5	230.9	297.8	387.2	431.8	515.7	683.6	809.4	825.0
122.5°	212.6	226.3	240.0	243.4	304.1	385.0	425.5	501.1	652.2	765.6	781.0
125°	231.4	243.9	256.4	259.5	312.6	383.4	418.8	483.0	611.4	707.6	721.8
127.5°	246.7	259.3	271.8	275.0	321.0	382.4	413.1	468.2	578.4	661.1	673.0
130°	254.9	268.4	281.9	285.4	327.2	382.9	410.9	460.0	558.1	631.7	642.7
132.5°	263.3	276.8	290.4	293.8	332.2	383.4	408.9	452.9	540.8	606.6	616.5
135°	275.8	288.1	300.5	303.5	337.6	383.0	405.7	442.5	516.1	571.2	579.8
137.5°	288.6	300.8	313.0	316.1	345.8	385.4	405.2	436.3	498.4	545.1	552.0
140°	299.2	310.5	321.7	324.5	350.8	385.7	403.2	430.1	483.8	524.1	530.6
142.5°	307.4	317.8	328.1	330.8	354.9	387.2	403.2	426.9	474.0	509.4	515.0
145°	319.9	329.0	338.1	340.3	360.4	387.2	400.5	419.8	458.4	487.4	491.6
147.5°	332.4	341.2	350.1	352.3	368.4	389.8	400.5	415.7	446.1	468.8	472.4
150°	340.6	348.6	356.6	358.6	372.6	391.2	400.5	413.3	439.0	458.2	461.0
152.5°	349.0	355.1	361.2	362.7	375.3	392.1	400.5	411.5	433.4	449.8	451.9
155°	361.6	366.1	370.5	371.6	381.3	394.1	400.5	409.2	426.6	439.7	441.1
157.5°	370.8	375.2	379.6	380.7	387.2	396.1	400.5	407.3	420.8	431.0	431.9
160°	377.1	380.5	383.8	384.7	390.0	397.0	400.5	406.3	418.0	426.7	427.2
162.5°	383.4	385.9	388.5	389.1	392.9	398.0	400.5	405.4	415.2	422.6	423.1
165°	390.1	392.4	394.7	395.3	397.1	399.4	400.5	404.0	411.0	416.3	416.9
167.5°	396.4	397.4	398.6	398.8	400.3	402.3	403.2	405.5	410.2	413.6	413.9
170°	400.5	401.6	402.7	403.0	403.1	403.1	403.2	405.5	410.2	413.6	413.6
172.5°	402.7	403.0	403.1	403.2	403.2	403.2	403.2	405.1	408.7	411.4	411.2
175°	405.7	405.7	405.7	405.7	404.9	403.8	403.2	404.4	406.7	408.4	408.4
177.5°	405.7	405.7	405.7	405.7	405.1	404.2	403.8	404.6	406.5	407.9	407.6
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	638.5	636.8	638.5	637.3	637.9	636.2	630.9	629.1	630.9	632.6	632.6
5°	646.2	645.0	646.2	646.2	645.6	644.4	638.5	637.3	638.5	639.1	637.9
7.5°	648.5	646.8	648.5	647.3	647.3	646.2	640.3	639.1	639.7	641.4	639.7
10°	648.5	646.8	648.5	647.9	647.3	646.2	640.3	637.9	637.9	639.7	637.9
12.5°	645.6	644.4	645.6	644.4	644.4	643.3	637.3	635.0	635.5	636.2	633.8
15°	640.9	639.1	640.9	639.7	640.3	638.5	632.0	629.7	629.7	630.9	626.8
17.5°	633.8	631.4	633.8	633.3	632.6	631.4	625.5	623.2	622.6	623.2	620.3
20°	625.5	623.8	625.5	625.0	625.0	622.6	616.7	613.8	613.8	613.8	610.9
22.5°	612.6	610.9	612.6	613.8	613.8	613.1	607.9	603.7	602.6	602.6	599.1
25°	597.9	596.1	597.9	597.9	597.2	597.9	596.1	593.7	592.0	590.2	586.7
27.5°	583.7	582.6	583.7	582.6	583.7	582.0	581.3	580.8	578.4	576.7	571.9
30°	569.6	568.4	569.6	568.4	567.2	566.1	563.1	561.9	564.3	563.1	555.4
32.5°	551.9	550.8	551.9	551.9	550.8	550.8	546.0	544.3	544.9	548.4	541.3
35°	533.7	531.9	533.7	533.0	533.7	531.9	528.9	528.4	526.0	530.1	524.9
37.5°	512.5	510.7	512.5	512.5	512.5	513.6	511.3	509.5	506.0	511.3	507.1
40°	490.7	488.3	490.7	490.1	490.7	491.8	490.7	489.5	486.0	490.1	486.6
42.5°	465.9	465.3	465.9	466.6	466.6	468.8	470.7	468.3	467.1	464.2	466.6
45°	439.4	438.3	439.4	440.6	441.2	442.4	447.7	447.7	445.9	441.2	444.7
47.5°	411.1	408.2	411.1	414.6	414.6	416.5	421.8	425.9	422.9	417.0	418.8
50°	381.1	381.7	381.1	383.5	383.5	390.0	394.1	398.2	401.1	394.1	385.8
52.5°	351.7	351.1	351.7	353.4	355.8	358.7	365.8	369.9	374.6	370.5	357.6
55°	322.2	323.4	322.2	322.8	324.0	325.8	336.3	340.4	349.3	344.0	330.4
57.5°	292.7	291.0	292.7	294.0	294.5	296.3	305.1	312.8	318.1	318.6	302.1
60°	258.6	256.2	258.6	263.9	265.1	266.2	274.5	281.6	286.2	288.0	271.0
62.5°	228.5	224.4	228.5	232.0	234.4	237.4	243.3	253.9	258.0	258.6	234.4
65°	196.7	195.0	196.7	203.8	204.4	207.9	214.4	222.0	230.9	229.8	195.0
67.5°	167.8	167.8	167.8	172.6	176.1	177.9	186.1	189.7	200.9	202.0	162.6
70°	141.4	140.8	141.4	144.9	147.3	151.4	159.1	163.2	172.0	175.0	131.9
72.5°	116.0	115.4	116.0	119.0	121.4	124.9	131.4	136.0	143.7	147.3	102.5
75°	93.6	92.5	93.6	96.0	95.4	100.1	105.4	110.1	117.3	119.5	76.0
77.5°	71.8	71.8	71.8	74.2	74.2	79.0	81.3	87.2	91.3	94.9	55.9
80°	53.6	53.0	53.6	54.2	54.2	56.6	60.7	64.8	68.3	68.3	38.3
82.5°	37.7	36.5	37.7	37.7	37.7	38.9	41.2	42.4	44.8	46.5	24.2
85°	23.5	23.5	23.5	24.2	23.5	24.8	25.3	26.5	26.5	25.3	14.8
87.5°	15.3	14.8	15.3	14.8	14.8	14.1	14.1	14.1	13.5	13.0	8.3
90°	10.4	10.4	10.4	10.4	10.4	13.8	18.4	20.7	17.8	12.0	7.6
92.5°	41.5	33.2	41.5	49.7	51.7	73.3	102.1	116.6	102.3	73.9	52.5
95°	144.5	119.5	144.5	169.3	175.6	230.6	303.9	340.6	287.6	181.8	102.4
97.5°	346.1	298.7	346.1	393.6	405.4	440.2	486.5	509.7	421.4	244.9	112.4
100°	498.7	442.1	498.7	555.2	569.3	566.8	563.3	561.7	463.7	267.8	120.9
102.5°	648.7	600.3	648.7	697.1	709.2	665.0	605.9	576.4	477.1	278.3	129.3
105°	840.1	814.1	840.1	866.1	872.6	773.3	641.0	574.8	478.6	286.2	141.8
107.5°	965.4	971.8	965.4	959.1	957.5	819.0	634.4	542.1	457.2	287.6	160.4
110°	1013.2	1040.3	1013.2	986.1	979.3	824.5	618.1	514.9	438.4	285.4	170.7



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1017.5	1059.1	1017.5	975.9	965.4	807.0	595.8	490.1	421.9	285.5	183.2
115°	990.5	1048.3	990.5	932.8	918.4	765.7	562.2	460.4	403.0	288.2	202.0
117.5°	933.3	997.3	933.3	869.3	853.3	715.5	531.8	439.9	391.1	293.5	220.3
120°	887.2	949.4	887.2	825.0	809.4	683.6	515.7	431.8	387.2	297.8	230.9
122.5°	842.3	903.7	842.3	781.0	765.6	652.2	501.1	425.5	385.0	304.1	243.4
125°	778.3	834.7	778.3	721.8	707.6	611.4	483.0	418.8	383.4	312.6	259.5
127.5°	720.6	768.3	720.6	673.0	661.1	578.4	468.2	413.1	382.4	321.0	275.0
130°	686.7	730.7	686.7	642.7	631.7	558.1	460.0	410.9	382.9	327.2	285.4
132.5°	655.9	695.4	655.9	616.5	606.6	540.8	452.9	408.9	383.4	332.2	293.8
135°	613.8	647.7	613.8	579.8	571.2	516.1	442.5	405.7	383.0	337.6	303.5
137.5°	579.9	607.7	579.9	552.0	545.1	498.4	436.3	405.2	385.4	345.8	316.1
140°	556.7	582.7	556.7	530.6	524.1	483.8	430.1	403.2	385.7	350.8	324.5
142.5°	537.3	559.7	537.3	515.0	509.4	474.0	426.9	403.2	387.2	354.9	330.8
145°	508.5	525.5	508.5	491.6	487.4	458.4	419.8	400.5	387.2	360.4	340.3
147.5°	486.4	500.5	486.4	472.4	468.8	446.1	415.7	400.5	389.8	368.4	352.3
150°	472.4	483.9	472.4	461.0	458.2	439.0	413.3	400.5	391.2	372.6	358.6
152.5°	460.5	469.1	460.5	451.9	449.8	433.4	411.5	400.5	392.1	375.3	362.7
155°	446.8	452.5	446.8	441.1	439.7	426.6	409.2	400.5	394.1	381.3	371.6
157.5°	436.0	439.9	436.0	431.9	431.0	420.8	407.3	400.5	396.1	387.2	380.7
160°	429.5	431.8	429.5	427.2	426.7	418.0	406.3	400.5	397.0	390.0	384.7
162.5°	425.3	427.5	425.3	423.1	422.6	415.2	405.4	400.5	398.0	392.9	389.1
165°	419.2	421.5	419.2	416.9	416.3	411.0	404.0	400.5	399.4	397.1	395.3
167.5°	414.8	415.8	414.8	413.9	413.6	410.2	405.5	403.2	402.3	400.3	398.8
170°	413.6	413.6	413.6	413.6	413.6	410.2	405.5	403.2	403.1	403.1	403.0
172.5°	410.3	409.5	410.3	411.2	411.4	408.7	405.1	403.2	403.2	403.2	403.2
175°	408.4	408.4	408.4	408.4	408.4	406.7	404.4	403.2	403.8	404.9	405.7
177.5°	406.7	405.7	406.7	407.6	407.9	406.5	404.6	403.8	404.2	405.1	405.7
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	631.4	627.9	627.9	622.0	619.6	617.9	615.0	606.1	603.7	601.4	605.0
5°	636.8	630.3	625.5	615.0	606.1	602.6	591.4	570.2	556.1	545.4	539.5
7.5°	637.9	629.7	620.9	604.4	583.1	573.7	539.5	500.7	490.1	480.7	474.7
10°	636.8	627.3	615.0	590.2	540.2	523.6	489.5	464.2	457.7	455.9	457.7
12.5°	632.6	623.8	606.7	565.5	495.4	484.2	464.2	449.4	448.3	451.2	467.1
15°	625.5	617.3	597.2	532.5	470.7	462.4	448.3	442.9	449.4	470.1	517.8
17.5°	618.5	609.1	584.3	500.1	451.8	445.9	435.9	446.5	483.0	510.7	526.6
20°	609.1	597.9	569.6	476.6	438.3	432.9	428.3	476.0	503.6	513.6	522.5
22.5°	597.9	586.1	549.6	460.1	424.1	420.0	422.9	492.5	503.6	510.7	518.4
25°	583.1	573.1	526.0	447.1	412.9	408.2	419.4	490.7	497.1	498.9	514.2
27.5°	569.6	556.7	501.2	435.3	399.4	397.6	422.4	483.0	487.7	489.5	506.0
30°	553.1	533.7	473.6	422.9	385.2	384.6	422.9	473.6	472.4	477.1	493.6
32.5°	536.0	499.5	442.4	407.6	371.7	371.1	418.8	459.4	458.3	464.7	477.1
35°	520.1	473.0	400.0	390.0	354.6	355.2	408.8	442.9	443.5	449.4	457.1
37.5°	503.6	450.0	353.4	370.5	338.1	338.1	395.2	427.6	426.5	428.3	438.8
40°	484.2	414.1	312.1	345.2	322.8	321.0	378.7	411.1	407.0	406.5	421.1
42.5°	463.6	374.6	281.6	311.6	305.1	302.8	358.7	391.1	383.5	385.2	404.1
45°	441.2	364.1	258.0	263.3	286.9	285.1	336.9	368.2	362.8	367.6	387.0
47.5°	418.8	342.8	250.3	218.5	267.4	266.8	312.8	345.8	342.8	347.5	368.2
50°	388.2	319.3	249.8	187.3	245.7	247.9	284.0	324.0	324.0	328.1	349.9
52.5°	348.7	290.4	226.8	169.6	220.3	227.4	258.6	305.1	306.3	310.4	329.9
55°	312.8	260.3	210.3	156.1	190.2	205.6	233.8	285.7	288.0	292.1	309.9
57.5°	279.8	216.8	206.8	140.2	162.6	177.3	212.0	266.8	268.0	271.6	288.6
60°	244.4	156.7	189.7	123.1	138.4	149.6	192.0	244.4	248.6	250.9	265.7
62.5°	204.4	113.7	172.0	111.4	126.7	129.0	175.6	223.3	228.5	230.3	239.2
65°	145.5	95.4	146.1	101.4	114.3	114.9	157.8	201.5	206.1	209.1	215.6
67.5°	98.4	77.7	111.4	91.9	104.9	105.4	140.8	176.1	182.6	185.0	189.1
70°	68.3	51.8	82.5	81.9	94.2	95.4	122.5	153.2	159.1	160.8	163.2
72.5°	50.1	41.8	68.3	73.6	83.1	84.2	103.6	127.3	133.2	134.9	136.0
75°	38.3	44.2	55.3	64.2	70.7	71.2	84.8	103.6	107.8	109.0	109.5
77.5°	30.7	41.2	40.7	51.8	57.7	56.6	66.6	80.1	83.6	83.6	83.6
80°	23.0	32.4	30.7	37.2	42.4	41.2	47.7	57.2	58.3	59.5	58.9
82.5°	17.0	20.6	20.6	23.5	28.3	27.1	31.8	37.2	37.2	37.2	38.3
85°	10.6	11.8	9.4	12.4	15.9	15.3	17.7	20.0	20.6	20.6	19.4
87.5°	6.5	5.3	3.0	4.7	7.0	7.0	8.3	8.9	8.3	8.3	8.3
90°	7.1	4.9	2.7	4.9	7.1	7.6	12.0	17.8	20.7	18.4	13.8
92.5°	47.9	29.4	10.9	29.4	47.9	52.5	73.9	102.3	116.6	102.1	73.3
95°	94.0	60.1	26.2	60.1	94.0	102.4	181.8	287.6	340.6	303.9	230.6
97.5°	105.0	75.1	45.2	75.1	105.0	112.4	244.9	421.4	509.7	486.5	440.2
100°	114.1	87.0	59.9	87.0	114.1	120.9	267.8	463.7	561.7	563.3	566.8
102.5°	123.0	97.8	72.5	97.8	123.0	129.3	278.3	477.1	576.4	605.9	665.0
105°	136.5	115.1	93.6	115.1	136.5	141.8	286.2	478.6	574.8	641.0	773.3
107.5°	155.4	135.4	115.4	135.4	155.4	160.4	287.6	457.2	542.1	634.4	819.0
110°	166.3	148.2	130.2	148.2	166.3	170.7	285.4	438.4	514.9	618.1	824.5



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.9	161.8	144.6	161.8	178.9	183.2	285.5	421.9	490.1	595.8	807.0
115°	198.1	182.2	166.4	182.2	198.1	202.0	288.2	403.0	460.4	562.2	765.7
117.5°	216.7	202.3	187.9	202.3	216.7	220.3	293.5	391.1	439.9	531.8	715.5
120°	227.5	214.0	200.4	214.0	227.5	230.9	297.8	387.2	431.8	515.7	683.6
122.5°	240.0	226.3	212.6	226.3	240.0	243.4	304.1	385.0	425.5	501.1	652.2
125°	256.4	243.9	231.4	243.9	256.4	259.5	312.6	383.4	418.8	483.0	611.4
127.5°	271.8	259.3	246.7	259.3	271.8	275.0	321.0	382.4	413.1	468.2	578.4
130°	281.9	268.4	254.9	268.4	281.9	285.4	327.2	382.9	410.9	460.0	558.1
132.5°	290.4	276.8	263.3	276.8	290.4	293.8	332.2	383.4	408.9	452.9	540.8
135°	300.5	288.1	275.8	288.1	300.5	303.5	337.6	383.0	405.7	442.5	516.1
137.5°	313.0	300.8	288.6	300.8	313.0	316.1	345.8	385.4	405.2	436.3	498.4
140°	321.7	310.5	299.2	310.5	321.7	324.5	350.8	385.7	403.2	430.1	483.8
142.5°	328.1	317.8	307.4	317.8	328.1	330.8	354.9	387.2	403.2	426.9	474.0
145°	338.1	329.0	319.9	329.0	338.1	340.3	360.4	387.2	400.5	419.8	458.4
147.5°	350.1	341.2	332.4	341.2	350.1	352.3	368.4	389.8	400.5	415.7	446.1
150°	356.6	348.6	340.6	348.6	356.6	358.6	372.6	391.2	400.5	413.3	439.0
152.5°	361.2	355.1	349.0	355.1	361.2	362.7	375.3	392.1	400.5	411.5	433.4
155°	370.5	366.1	361.6	366.1	370.5	371.6	381.3	394.1	400.5	409.2	426.6
157.5°	379.6	375.2	370.8	375.2	379.6	380.7	387.2	396.1	400.5	407.3	420.8
160°	383.8	380.5	377.1	380.5	383.8	384.7	390.0	397.0	400.5	406.3	418.0
162.5°	388.5	385.9	383.4	385.9	388.5	389.1	392.9	398.0	400.5	405.4	415.2
165°	394.7	392.4	390.1	392.4	394.7	395.3	397.1	399.4	400.5	404.0	411.0
167.5°	398.6	397.4	396.4	397.4	398.6	398.8	400.3	402.3	403.2	405.5	410.2
170°	402.7	401.6	400.5	401.6	402.7	403.0	403.1	403.1	403.2	405.5	410.2
172.5°	403.1	403.0	402.7	403.0	403.1	403.2	403.2	403.2	403.2	405.1	408.7
175°	405.7	405.7	405.7	405.7	405.7	405.7	404.9	403.8	403.2	404.4	406.7
177.5°	405.7	405.7	405.7	405.7	405.7	405.7	405.1	404.2	403.8	404.6	406.5
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6	622.6
2.5°	600.8	599.1	601.4	595.0	601.4	599.1	600.8	605.0	601.4	603.7	606.1
5°	527.2	524.3	514.9	507.1	514.9	524.3	527.2	539.5	545.4	556.1	570.2
7.5°	471.2	468.8	466.6	461.8	466.6	468.8	471.2	474.7	480.7	490.1	500.7
10°	458.8	459.4	463.0	462.4	463.0	459.4	458.8	457.7	455.9	457.7	464.2
12.5°	490.7	496.0	515.4	514.2	515.4	496.0	490.7	467.1	451.2	448.3	449.4
15°	527.2	528.9	533.0	533.7	533.0	528.9	527.2	517.8	470.1	449.4	442.9
17.5°	530.8	531.3	534.3	534.3	534.3	531.3	530.8	526.6	510.7	483.0	446.5
20°	527.8	528.9	534.9	536.0	534.9	528.9	527.8	522.5	513.6	503.6	476.0
22.5°	526.6	528.9	533.7	533.0	533.7	528.9	526.6	518.4	510.7	503.6	492.5
25°	520.7	520.7	521.3	521.9	521.3	520.7	520.7	514.2	498.9	497.1	490.7
27.5°	508.4	509.5	513.0	512.5	513.0	509.5	508.4	506.0	489.5	487.7	483.0
30°	497.1	496.0	493.0	490.7	493.0	496.0	497.1	493.6	477.1	472.4	473.6
32.5°	478.3	475.3	472.4	470.7	472.4	475.3	478.3	477.1	464.7	458.3	459.4
35°	455.9	456.5	455.9	454.2	455.9	456.5	455.9	457.1	449.4	443.5	442.9
37.5°	440.0	441.2	440.6	438.3	440.6	441.2	440.0	438.8	428.3	426.5	427.6
40°	423.5	424.1	423.5	421.8	423.5	424.1	423.5	421.1	406.5	407.0	411.1
42.5°	407.6	407.0	405.2	404.1	405.2	407.0	407.6	404.1	385.2	383.5	391.1
45°	389.4	390.0	386.4	384.6	386.4	390.0	389.4	387.0	367.6	362.8	368.2
47.5°	371.1	371.1	368.2	366.3	368.2	371.1	371.1	368.2	347.5	342.8	345.8
50°	351.7	351.1	346.9	346.3	346.9	351.1	351.7	349.9	328.1	324.0	324.0
52.5°	329.3	329.3	329.9	331.0	329.9	329.3	329.3	329.9	310.4	306.3	305.1
55°	309.9	310.4	314.5	315.7	314.5	310.4	309.9	309.9	292.1	288.0	285.7
57.5°	289.8	289.8	292.7	292.7	292.7	289.8	289.8	288.6	271.6	268.0	266.8
60°	266.8	268.0	270.3	269.8	270.3	268.0	266.8	265.7	250.9	248.6	244.4
62.5°	242.7	243.9	244.4	243.3	244.4	243.9	242.7	239.2	230.3	228.5	223.3
65°	217.4	218.5	219.1	217.9	219.1	218.5	217.4	215.6	209.1	206.1	201.5
67.5°	191.5	190.9	190.2	192.6	190.2	190.9	191.5	189.1	185.0	182.6	176.1
70°	164.9	164.9	164.3	165.6	164.3	164.9	164.9	163.2	160.8	159.1	153.2
72.5°	136.7	136.0	138.4	136.7	138.4	136.0	136.7	136.0	134.9	133.2	127.3
75°	109.0	110.1	109.0	110.8	109.0	110.1	109.0	109.5	109.0	107.8	103.6
77.5°	83.1	84.2	83.1	83.1	83.1	84.2	83.1	83.6	83.6	83.6	80.1
80°	58.9	58.3	58.3	57.7	58.3	58.3	58.9	58.9	59.5	58.3	57.2
82.5°	37.7	37.2	37.2	38.3	37.2	37.2	37.7	38.3	37.2	37.2	37.2
85°	20.6	21.2	20.0	20.0	20.0	21.2	20.6	19.4	20.6	20.6	20.0
87.5°	7.6	7.0	7.0	7.0	7.0	7.0	7.6	8.3	8.3	8.3	8.9
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	13.8	18.4	20.7	17.8
92.5°	51.7	49.7	41.5	33.2	41.5	49.7	51.7	73.3	102.1	116.6	102.3
95°	175.6	169.3	144.5	119.5	144.5	169.3	175.6	230.6	303.9	340.6	287.6
97.5°	405.4	393.6	346.1	298.7	346.1	393.6	405.4	440.2	486.5	509.7	421.4
100°	569.3	555.2	498.7	442.1	498.7	555.2	569.3	566.8	563.3	561.7	463.7
102.5°	709.2	697.1	648.7	600.3	648.7	697.1	709.2	665.0	605.9	576.4	477.1
105°	872.6	866.1	840.1	814.1	840.1	866.1	872.6	773.3	641.0	574.8	478.6
107.5°	957.5	959.1	965.4	971.8	965.4	959.1	957.5	819.0	634.4	542.1	457.2
110°	979.3	986.1	1013.2	1040.3	1013.2	986.1	979.3	824.5	618.1	514.9	438.4



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	965.4	975.9	1017.5	1059.1	1017.5	975.9	965.4	807.0	595.8	490.1	421.9
115°	918.4	932.8	990.5	1048.3	990.5	932.8	918.4	765.7	562.2	460.4	403.0
117.5°	853.3	869.3	933.3	997.3	933.3	869.3	853.3	715.5	531.8	439.9	391.1
120°	809.4	825.0	887.2	949.4	887.2	825.0	809.4	683.6	515.7	431.8	387.2
122.5°	765.6	781.0	842.3	903.7	842.3	781.0	765.6	652.2	501.1	425.5	385.0
125°	707.6	721.8	778.3	834.7	778.3	721.8	707.6	611.4	483.0	418.8	383.4
127.5°	661.1	673.0	720.6	768.3	720.6	673.0	661.1	578.4	468.2	413.1	382.4
130°	631.7	642.7	686.7	730.7	686.7	642.7	631.7	558.1	460.0	410.9	382.9
132.5°	606.6	616.5	655.9	695.4	655.9	616.5	606.6	540.8	452.9	408.9	383.4
135°	571.2	579.8	613.8	647.7	613.8	579.8	571.2	516.1	442.5	405.7	383.0
137.5°	545.1	552.0	579.9	607.7	579.9	552.0	545.1	498.4	436.3	405.2	385.4
140°	524.1	530.6	556.7	582.7	556.7	530.6	524.1	483.8	430.1	403.2	385.7
142.5°	509.4	515.0	537.3	559.7	537.3	515.0	509.4	474.0	426.9	403.2	387.2
145°	487.4	491.6	508.5	525.5	508.5	491.6	487.4	458.4	419.8	400.5	387.2
147.5°	468.8	472.4	486.4	500.5	486.4	472.4	468.8	446.1	415.7	400.5	389.8
150°	458.2	461.0	472.4	483.9	472.4	461.0	458.2	439.0	413.3	400.5	391.2
152.5°	449.8	451.9	460.5	469.1	460.5	451.9	449.8	433.4	411.5	400.5	392.1
155°	439.7	441.1	446.8	452.5	446.8	441.1	439.7	426.6	409.2	400.5	394.1
157.5°	431.0	431.9	436.0	439.9	436.0	431.9	431.0	420.8	407.3	400.5	396.1
160°	426.7	427.2	429.5	431.8	429.5	427.2	426.7	418.0	406.3	400.5	397.0
162.5°	422.6	423.1	425.3	427.5	425.3	423.1	422.6	415.2	405.4	400.5	398.0
165°	416.3	416.9	419.2	421.5	419.2	416.9	416.3	411.0	404.0	400.5	399.4
167.5°	413.6	413.9	414.8	415.8	414.8	413.9	413.6	410.2	405.5	403.2	402.3
170°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	410.2	405.5	403.2	403.1
172.5°	411.4	411.2	410.3	409.5	410.3	411.2	411.4	408.7	405.1	403.2	403.2
175°	408.4	408.4	408.4	408.4	408.4	408.4	408.4	406.7	404.4	403.2	403.8
177.5°	407.9	407.6	406.7	405.7	406.7	407.6	407.9	406.5	404.6	403.8	404.2
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	622.6	622.6	622.6	622.6	622.6
2.5°	615.0	617.9	619.6	622.0	627.9
5°	591.4	602.6	606.1	615.0	625.5
7.5°	539.5	573.7	583.1	604.4	620.9
10°	489.5	523.6	540.2	590.2	615.0
12.5°	464.2	484.2	495.4	565.5	606.7
15°	448.3	462.4	470.7	532.5	597.2
17.5°	435.9	445.9	451.8	500.1	584.3
20°	428.3	432.9	438.3	476.6	569.6
22.5°	422.9	420.0	424.1	460.1	549.6
25°	419.4	408.2	412.9	447.1	526.0
27.5°	422.4	397.6	399.4	435.3	501.2
30°	422.9	384.6	385.2	422.9	473.6
32.5°	418.8	371.1	371.7	407.6	442.4
35°	408.8	355.2	354.6	390.0	400.0
37.5°	395.2	338.1	338.1	370.5	353.4
40°	378.7	321.0	322.8	345.2	312.1
42.5°	358.7	302.8	305.1	311.6	281.6
45°	336.9	285.1	286.9	263.3	258.0
47.5°	312.8	266.8	267.4	218.5	250.3
50°	284.0	247.9	245.7	187.3	249.8
52.5°	258.6	227.4	220.3	169.6	226.8
55°	233.8	205.6	190.2	156.1	210.3
57.5°	212.0	177.3	162.6	140.2	206.8
60°	192.0	149.6	138.4	123.1	189.7
62.5°	175.6	129.0	126.7	111.4	172.0
65°	157.8	114.9	114.3	101.4	146.1
67.5°	140.8	105.4	104.9	91.9	111.4
70°	122.5	95.4	94.2	81.9	82.5
72.5°	103.6	84.2	83.1	73.6	68.3
75°	84.8	71.2	70.7	64.2	55.3
77.5°	66.6	56.6	57.7	51.8	40.7
80°	47.7	41.2	42.4	37.2	30.7
82.5°	31.8	27.1	28.3	23.5	20.6
85°	17.7	15.3	15.9	12.4	9.4
87.5°	8.3	7.0	7.0	4.7	3.0
90°	12.0	7.6	7.1	4.9	2.7
92.5°	73.9	52.5	47.9	29.4	10.9
95°	181.8	102.4	94.0	60.1	26.2
97.5°	244.9	112.4	105.0	75.1	45.2
100°	267.8	120.9	114.1	87.0	59.9
102.5°	278.3	129.3	123.0	97.8	72.5
105°	286.2	141.8	136.5	115.1	93.6
107.5°	287.6	160.4	155.4	135.4	115.4
110°	285.4	170.7	166.3	148.2	130.2



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	285.5	183.2	178.9	161.8	144.6
115°	288.2	202.0	198.1	182.2	166.4
117.5°	293.5	220.3	216.7	202.3	187.9
120°	297.8	230.9	227.5	214.0	200.4
122.5°	304.1	243.4	240.0	226.3	212.6
125°	312.6	259.5	256.4	243.9	231.4
127.5°	321.0	275.0	271.8	259.3	246.7
130°	327.2	285.4	281.9	268.4	254.9
132.5°	332.2	293.8	290.4	276.8	263.3
135°	337.6	303.5	300.5	288.1	275.8
137.5°	345.8	316.1	313.0	300.8	288.6
140°	350.8	324.5	321.7	310.5	299.2
142.5°	354.9	330.8	328.1	317.8	307.4
145°	360.4	340.3	338.1	329.0	319.9
147.5°	368.4	352.3	350.1	341.2	332.4
150°	372.6	358.6	356.6	348.6	340.6
152.5°	375.3	362.7	361.2	355.1	349.0
155°	381.3	371.6	370.5	366.1	361.6
157.5°	387.2	380.7	379.6	375.2	370.8
160°	390.0	384.7	383.8	380.5	377.1
162.5°	392.9	389.1	388.5	385.9	383.4
165°	397.1	395.3	394.7	392.4	390.1
167.5°	400.3	398.8	398.6	397.4	396.4
170°	403.1	403.0	402.7	401.6	400.5
172.5°	403.2	403.2	403.1	403.0	402.7
175°	404.9	405.7	405.7	405.7	405.7
177.5°	405.1	405.7	405.7	405.7	405.7
180°	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934657

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3000K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.67	10.43	10.72	11.49	12.92	12.47	13.23	13.52	14.29	15.72
	3H	10.14	10.82	11.20	11.89	13.34	13.80	14.48	14.86	15.55	17.00
	4H	10.33	10.98	11.40	12.04	13.50	14.23	14.88	15.30	15.95	17.40
	6H	10.44	11.04	11.53	12.11	13.58	14.50	15.10	15.58	16.17	17.64
	8H	10.44	11.01	11.53	12.10	13.56	14.57	15.14	15.66	16.22	17.69
	12H	10.41	10.95	11.50	12.03	13.52	14.60	15.14	15.69	16.22	17.71
4H	2H	10.68	11.33	11.76	12.40	13.86	12.87	13.52	13.95	14.58	16.04
	3H	11.70	12.24	12.79	13.34	14.81	14.35	14.89	15.44	15.99	17.46
	4H	11.97	12.47	13.07	13.55	15.05	14.87	15.37	15.96	16.45	17.94
	6H	12.09	12.52	13.19	13.63	15.11	15.22	15.65	16.32	16.76	18.24
	8H	12.10	12.49	13.20	13.59	15.09	15.32	15.72	16.42	16.82	18.32
	12H	12.06	12.42	13.18	13.53	15.04	15.37	15.73	16.49	16.84	18.35
8H	4H	12.41	12.81	13.52	13.91	15.41	14.99	15.39	16.09	16.49	17.99
	6H	12.67	13.00	13.80	14.14	15.64	15.41	15.74	16.54	16.88	18.38
	8H	12.71	13.00	13.84	14.12	15.64	15.56	15.85	16.69	16.97	18.49
	12H	12.69	12.94	13.83	14.06	15.62	15.65	15.90	16.78	17.02	18.57
12H	4H	12.41	12.77	13.53	13.89	15.39	14.95	15.31	16.07	16.42	17.93
	6H	12.73	13.02	13.86	14.14	15.66	15.41	15.70	16.54	16.82	18.34
	8H	12.79	13.04	13.93	14.16	15.72	15.56	15.81	16.69	16.93	18.49