

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: P934658

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934658
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

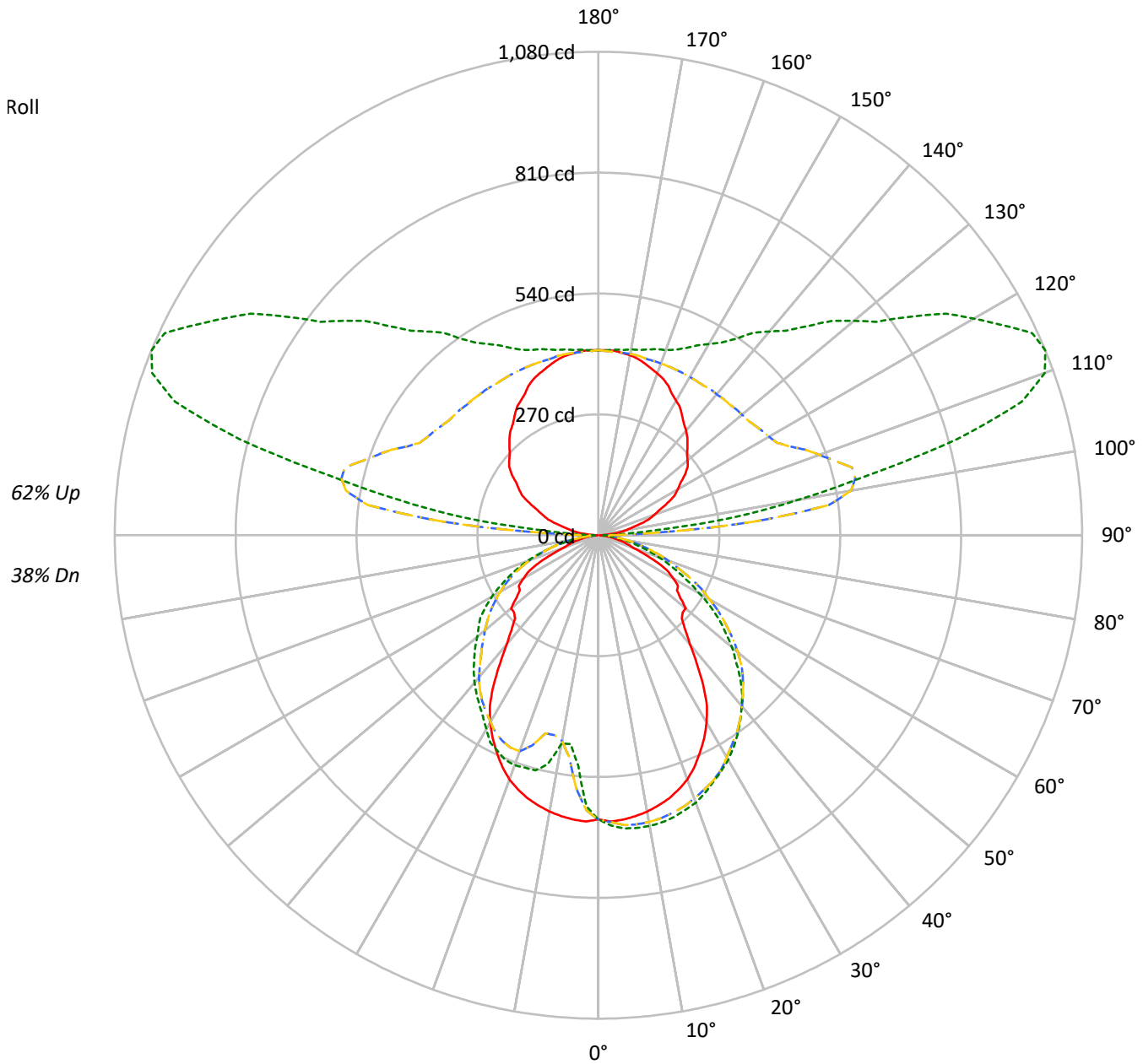
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4328.0 lumens
Efficiency: N/A
Efficacy: 125.8 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: Semi-Indirect

Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P934658
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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5890	5890	5890	5890
5°	5926	5945	5926	4675
10°	5881	5856	5881	4187
15°	5810	5729	5810	4784
20°	5682	5579	5682	4794
25°	5427	5359	5427	4692
30°	5099	5177	5099	4470
35°	4539	4947	4539	4225
40°	3775	4677	3775	4039
45°	3367	4360	3367	3826
50°	3569	3981	3569	3612
55°	3347	3574	3347	3489
60°	3440	3035	3440	3195
65°	3103	2509	3103	2803
70°	2135	1999	2135	2352
75°	1850	1478	1850	1770
80°	1460	978	1460	1063
85°	795	517	795	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5170 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	1.3
10°-20°	162.7	3.8
20°-30°	251.4	5.8
30°-40°	300.2	6.9
40°-50°	301.9	7.0
50°-60°	262.7	6.1
60°-70°	186.3	4.3
70°-80°	98.5	2.3
80°-90°	26.1	0.6
90°-100°	201.6	4.7
100°-110°	530.0	12.2
110°-120°	549.5	12.7
120°-130°	440.8	10.2
130°-140°	345.9	8.0
140°-150°	265.5	6.1
150°-160°	191.2	4.4
160°-170°	117.0	2.7
170°-180°	39.5	0.9
0°-30°	471.4	10.9
0°-40°	771.6	17.8
0°-60°	1336.2	30.9
0°-90°	1647.2	38.1
90°-120°	1281.1	29.6
90°-150°	2333.1	53.9
90°-180°	2681.0	61.9
0°-180°	4328.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	635	635	635	635	635	
5°	638	658	638	517	638	60
15°	609	652	609	544	609	171
25°	536	608	536	532	536	246
35°	408	542	408	463	408	252
45°	263	447	263	392	263	211
55°	214	330	214	322	214	197
65°	149	199	149	222	149	142
75°	56	94	56	113	56	59
85°	10	24	10	20	10	13
90°	3	11	3	11	3	3
95°	27	122	27	122	27	30
105°	95	830	95	830	95	101
115°	170	1069	170	1069	170	168
125°	236	851	236	851	236	209
135°	281	660	281	660	281	218
145°	326	536	326	536	326	204
155°	369	461	369	461	369	169
165°	398	430	398	430	398	112
175°	414	416	414	416	414	39
180°	414	414	414	414	414	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	640.1	640.1	643.6	644.9	644.9	643.1	641.3	643.1	648.5	650.3	649.6
5°	637.6	642.5	649.1	650.3	651.5	650.9	649.6	650.9	656.9	658.1	658.7
7.5°	632.9	641.8	650.3	652.1	653.8	652.1	651.5	652.7	658.7	659.8	659.8
10°	626.9	639.4	649.1	650.3	652.1	650.3	650.3	652.7	658.7	659.8	660.5
12.5°	618.5	635.9	644.9	646.1	648.5	647.8	647.3	649.6	655.7	656.9	656.9
15°	608.8	629.2	637.6	638.9	643.1	641.8	641.8	644.3	650.9	652.7	652.1
17.5°	595.7	620.9	630.5	632.3	635.3	634.7	635.3	637.6	643.6	644.9	645.5
20°	580.6	609.4	620.9	622.7	625.6	625.6	625.6	628.7	634.7	637.1	637.1
22.5°	560.2	597.4	609.4	610.7	614.3	614.3	615.4	619.6	625.0	625.6	625.6
25°	536.2	584.2	594.4	598.1	601.6	603.4	605.2	607.6	609.4	608.8	609.4
27.5°	511.0	567.4	580.6	583.0	587.9	589.7	592.1	592.6	593.2	595.0	593.9
30°	482.8	544.0	563.8	566.2	574.0	575.2	572.8	574.0	577.0	578.2	579.4
32.5°	451.0	509.2	546.4	551.8	559.0	555.5	554.8	556.6	561.5	561.5	562.6
35°	407.7	482.1	530.2	535.0	540.4	536.2	538.6	539.2	542.2	544.0	543.4
37.5°	360.3	458.8	513.4	517.0	521.2	515.8	519.4	521.2	523.6	522.4	522.4
40°	318.2	422.1	493.6	496.0	499.6	495.4	499.0	500.2	501.4	500.2	499.6
42.5°	287.0	381.9	472.5	475.6	473.2	476.1	477.4	479.8	477.9	475.6	475.6
45°	263.0	371.1	449.7	453.3	449.7	454.5	456.3	456.3	451.0	449.7	449.1
47.5°	255.2	349.4	426.9	426.9	425.1	431.1	434.1	429.9	424.6	422.7	422.7
50°	254.6	325.4	395.7	393.3	401.7	408.9	405.9	401.7	397.5	390.9	390.9
52.5°	231.2	296.0	355.4	364.5	377.6	381.9	377.1	372.9	365.6	362.7	360.3
55°	214.3	265.4	318.8	336.8	350.7	356.1	347.0	342.8	332.1	330.3	329.0
57.5°	210.8	221.0	285.2	308.0	324.8	324.3	318.8	311.0	302.0	300.2	299.7
60°	193.4	159.7	249.2	276.2	293.6	291.8	287.0	279.8	271.4	270.2	269.0
62.5°	175.3	115.9	208.3	239.0	263.6	263.0	258.8	248.0	242.0	239.0	236.5
65°	148.9	97.2	148.4	198.8	234.2	235.4	226.3	218.5	211.9	208.3	207.7
67.5°	113.5	79.2	100.3	165.7	205.9	204.8	193.4	189.7	181.3	179.5	175.9
70°	84.1	52.8	69.7	134.5	178.3	175.3	166.3	162.1	154.4	150.1	147.7
72.5°	69.7	42.6	51.0	104.5	150.1	146.5	138.7	133.9	127.3	123.7	121.3
75°	56.4	45.0	39.0	77.4	121.9	119.5	112.3	107.4	102.1	97.2	97.9
77.5°	41.5	42.0	31.2	57.0	96.7	93.1	88.9	82.9	80.5	75.7	75.7
80°	31.2	33.0	23.5	39.0	69.7	69.7	66.1	61.9	57.7	55.2	55.2
82.5°	21.0	21.0	17.4	24.6	47.5	45.7	43.2	42.0	39.7	38.4	38.4
85°	9.6	12.0	10.8	15.0	25.8	27.0	27.0	25.8	25.2	24.0	24.6
87.5°	3.0	5.4	6.6	8.4	13.3	13.8	14.4	14.4	14.4	15.0	15.0
90°	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1	10.6	10.6
92.5°	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8	52.7	50.7
95°	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0	179.0	172.6
97.5°	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7	413.3	401.2
100°	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7	580.3	565.9
102.5°	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8	723.0	710.6
105°	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3	889.5	882.9
107.5°	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9	976.1	977.7
110°	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4	998.3	1005.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6	984.1	994.8
115°	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5	936.1	950.8
117.5°	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3	869.8	886.1
120°	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8	825.1	841.0
122.5°	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9	780.4	796.1
125°	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2	721.4	735.8
127.5°	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7	673.9	686.1
130°	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9	643.9	655.1
132.5°	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2	618.4	628.4
135°	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1	582.3	591.0
137.5°	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1	555.6	562.7
140°	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1	534.2	540.9
142.5°	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2	519.3	525.0
145°	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3	496.8	501.1
147.5°	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7	477.9	481.5
150°	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5	467.1	469.9
152.5°	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7	458.5	460.6
155°	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9	448.2	449.6
157.5°	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9	439.3	440.3
160°	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1	434.9	435.5
162.5°	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2	430.7	431.3
165°	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0	424.4	425.0
167.5°	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1	421.6	421.9
170°	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1	421.6	421.6
172.5°	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6	419.4	419.2
175°	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5	416.3	416.3
177.5°	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4	415.8	415.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	650.9	649.1	650.9	649.6	650.3	648.5	643.1	641.3	643.1	644.9	644.9
5°	658.7	657.5	658.7	658.7	658.1	656.9	650.9	649.6	650.9	651.5	650.3
7.5°	661.1	659.3	661.1	659.8	659.8	658.7	652.7	651.5	652.1	653.8	652.1
10°	661.1	659.3	661.1	660.5	659.8	658.7	652.7	650.3	650.3	652.1	650.3
12.5°	658.1	656.9	658.1	656.9	656.9	655.7	649.6	647.3	647.8	648.5	646.1
15°	653.3	651.5	653.3	652.1	652.7	650.9	644.3	641.8	641.8	643.1	638.9
17.5°	646.1	643.6	646.1	645.5	644.9	643.6	637.6	635.3	634.7	635.3	632.3
20°	637.6	635.9	637.6	637.1	637.1	634.7	628.7	625.6	625.6	625.6	622.7
22.5°	624.5	622.7	624.5	625.6	625.6	625.0	619.6	615.4	614.3	614.3	610.7
25°	609.4	607.6	609.4	609.4	608.8	609.4	607.6	605.2	603.4	601.6	598.1
27.5°	595.0	593.9	595.0	593.9	595.0	593.2	592.6	592.1	589.7	587.9	583.0
30°	580.6	579.4	580.6	579.4	578.2	577.0	574.0	572.8	575.2	574.0	566.2
32.5°	562.6	561.5	562.6	562.6	561.5	561.5	556.6	554.8	555.5	559.0	551.8
35°	544.0	542.2	544.0	543.4	544.0	542.2	539.2	538.6	536.2	540.4	535.0
37.5°	522.4	520.6	522.4	522.4	522.4	523.6	521.2	519.4	515.8	521.2	517.0
40°	500.2	497.8	500.2	499.6	500.2	501.4	500.2	499.0	495.4	499.6	496.0
42.5°	475.0	474.3	475.0	475.6	475.6	477.9	479.8	477.4	476.1	473.2	475.6
45°	447.9	446.8	447.9	449.1	449.7	451.0	456.3	456.3	454.5	449.7	453.3
47.5°	419.1	416.1	419.1	422.7	422.7	424.6	429.9	434.1	431.1	425.1	426.9
50°	388.5	389.1	388.5	390.9	390.9	397.5	401.7	405.9	408.9	401.7	393.3
52.5°	358.5	357.9	358.5	360.3	362.7	365.6	372.9	377.1	381.9	377.6	364.5
55°	328.4	329.7	328.4	329.0	330.3	332.1	342.8	347.0	356.1	350.7	336.8
57.5°	298.4	296.6	298.4	299.7	300.2	302.0	311.0	318.8	324.3	324.8	308.0
60°	263.6	261.2	263.6	269.0	270.2	271.4	279.8	287.0	291.8	293.6	276.2
62.5°	233.0	228.8	233.0	236.5	239.0	242.0	248.0	258.8	263.0	263.6	239.0
65°	200.5	198.8	200.5	207.7	208.3	211.9	218.5	226.3	235.4	234.2	198.8
67.5°	171.1	171.1	171.1	175.9	179.5	181.3	189.7	193.4	204.8	205.9	165.7
70°	144.1	143.5	144.1	147.7	150.1	154.4	162.1	166.3	175.3	178.3	134.5
72.5°	118.3	117.6	118.3	121.3	123.7	127.3	133.9	138.7	146.5	150.1	104.5
75°	95.4	94.3	95.4	97.9	97.2	102.1	107.4	112.3	119.5	121.9	77.4
77.5°	73.2	73.2	73.2	75.7	75.7	80.5	82.9	88.9	93.1	96.7	57.0
80°	54.6	54.1	54.6	55.2	55.2	57.7	61.9	66.1	69.7	69.7	39.0
82.5°	38.4	37.2	38.4	38.4	38.4	39.7	42.0	43.2	45.7	47.5	24.6
85°	24.0	24.0	24.0	24.6	24.0	25.2	25.8	27.0	27.0	25.8	15.0
87.5°	15.6	15.0	15.6	15.0	15.0	14.4	14.4	14.4	13.8	13.3	8.4
90°	10.6	10.6	10.6	10.6	10.6	14.1	18.8	21.1	18.2	12.3	7.8
92.5°	42.3	33.8	42.3	50.7	52.7	74.8	104.1	118.8	104.3	75.3	53.5
95°	147.3	121.9	147.3	172.6	179.0	235.0	309.8	347.2	293.2	185.3	104.4
97.5°	352.8	304.5	352.8	401.2	413.3	448.7	495.9	519.5	429.6	249.6	114.6
100°	508.4	450.7	508.4	565.9	580.3	577.7	574.3	572.6	472.7	273.0	123.2
102.5°	661.3	611.9	661.3	710.6	723.0	677.8	617.7	587.6	486.3	283.7	131.8
105°	856.4	829.9	856.4	882.9	889.5	788.3	653.4	585.9	487.9	291.7	144.6
107.5°	984.1	990.6	984.1	977.7	976.1	834.9	646.7	552.6	466.1	293.2	163.5
110°	1032.8	1060.5	1032.8	1005.2	998.3	840.4	630.0	524.8	446.9	291.0	174.0



TEST NUMBER: P934658

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1037.2	1079.7	1037.2	994.8	984.1	822.6	607.3	499.6	430.1	291.1	186.8
115°	1009.7	1068.6	1009.7	950.8	936.1	780.5	573.1	469.3	410.8	293.8	205.9
117.5°	951.4	1016.6	951.4	886.1	869.8	729.3	542.1	448.5	398.7	299.2	224.5
120°	904.4	967.7	904.4	841.0	825.1	696.8	525.7	440.1	394.7	303.6	235.4
122.5°	858.6	921.2	858.6	796.1	780.4	664.9	510.8	433.8	392.5	310.0	248.1
125°	793.3	850.9	793.3	735.8	721.4	623.2	492.3	426.9	390.8	318.6	264.5
127.5°	734.6	783.2	734.6	686.1	673.9	589.7	477.3	421.1	389.8	327.2	280.3
130°	700.0	744.9	700.0	655.1	643.9	568.9	468.9	418.8	390.4	333.5	290.9
132.5°	668.6	708.8	668.6	628.4	618.4	551.2	461.6	416.9	390.8	338.6	299.5
135°	625.6	660.3	625.6	591.0	582.3	526.1	451.1	413.5	390.4	344.2	309.4
137.5°	591.1	619.5	591.1	562.7	555.6	508.1	444.7	413.0	392.9	352.5	322.2
140°	567.4	593.9	567.4	540.9	534.2	493.1	438.4	411.0	393.2	357.6	330.8
142.5°	547.8	570.6	547.8	525.0	519.3	483.2	435.1	411.0	394.7	361.8	337.2
145°	518.4	535.7	518.4	501.1	496.8	467.3	428.0	408.3	394.7	367.3	346.9
147.5°	495.8	510.1	495.8	481.5	477.9	454.7	423.8	408.3	397.3	375.5	359.1
150°	481.6	493.2	481.6	469.9	467.1	447.5	421.3	408.3	398.8	379.8	365.6
152.5°	469.4	478.2	469.4	460.6	458.5	441.7	419.5	408.3	399.7	382.6	369.7
155°	455.4	461.3	455.4	449.6	448.2	434.9	417.1	408.3	401.7	388.7	378.8
157.5°	444.4	448.5	444.4	440.3	439.3	428.9	415.2	408.3	403.8	394.7	388.0
160°	437.8	440.1	437.8	435.5	434.9	426.1	414.2	408.3	404.7	397.5	392.1
162.5°	433.5	435.7	433.5	431.3	430.7	423.2	413.3	408.3	405.7	400.5	396.6
165°	427.3	429.7	427.3	425.0	424.4	419.0	411.8	408.3	407.1	404.8	403.0
167.5°	422.9	423.8	422.9	421.9	421.6	418.1	413.4	411.0	410.1	408.1	406.6
170°	421.6	421.6	421.6	421.6	421.6	418.1	413.4	411.0	410.9	410.9	410.8
172.5°	418.3	417.4	418.3	419.2	419.4	416.6	412.9	411.0	411.0	411.0	411.0
175°	416.3	416.3	416.3	416.3	416.3	414.5	412.2	411.0	411.6	412.7	413.5
177.5°	414.5	413.5	414.5	415.5	415.8	414.4	412.5	411.6	412.0	412.9	413.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934658

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	643.6	640.1	640.1	634.1	631.6	629.9	626.9	617.9	615.4	613.0	616.7
5°	649.1	642.5	637.6	626.9	617.9	614.3	602.8	581.2	566.8	556.0	550.0
7.5°	650.3	641.8	632.9	616.1	594.4	584.8	550.0	510.4	499.6	490.0	483.9
10°	649.1	639.4	626.9	601.6	550.6	533.8	499.0	473.2	466.5	464.8	466.5
12.5°	644.9	635.9	618.5	576.4	505.0	493.6	473.2	458.1	457.0	459.9	476.1
15°	637.6	629.2	608.8	542.8	479.8	471.4	457.0	451.5	458.1	479.2	527.8
17.5°	630.5	620.9	595.7	509.8	460.5	454.5	444.3	455.2	492.3	520.6	536.8
20°	620.9	609.4	580.6	485.8	446.8	441.3	436.6	485.2	513.4	523.6	532.6
22.5°	609.4	597.4	560.2	469.0	432.3	428.1	431.1	502.0	513.4	520.6	528.4
25°	594.4	584.2	536.2	455.7	420.9	416.1	427.5	500.2	506.7	508.5	524.2
27.5°	580.6	567.4	511.0	443.7	407.1	405.3	430.6	492.3	497.2	499.0	515.8
30°	563.8	544.0	482.8	431.1	392.7	392.1	431.1	482.8	481.6	486.3	503.2
32.5°	546.4	509.2	451.0	415.5	378.9	378.3	426.9	468.3	467.2	473.7	486.3
35°	530.2	482.1	407.7	397.5	361.4	362.1	416.7	451.5	452.1	458.1	465.9
37.5°	513.4	458.8	360.3	377.6	344.7	344.7	402.9	435.9	434.8	436.6	447.3
40°	493.6	422.1	318.2	351.9	329.0	327.2	386.1	419.1	414.9	414.4	429.3
42.5°	472.5	381.9	287.0	317.7	311.0	308.6	365.6	398.7	390.9	392.7	411.9
45°	449.7	371.1	263.0	268.4	292.4	290.6	343.4	375.3	369.9	374.7	394.5
47.5°	426.9	349.4	255.2	222.8	272.6	272.0	318.8	352.5	349.4	354.3	375.3
50°	395.7	325.4	254.6	191.0	250.4	252.7	289.5	330.3	330.3	334.5	356.7
52.5°	355.4	296.0	231.2	172.9	224.5	231.8	263.6	311.0	312.2	316.4	336.3
55°	318.8	265.4	214.3	159.1	193.9	209.6	238.3	291.2	293.6	297.8	315.9
57.5°	285.2	221.0	210.8	142.9	165.7	180.8	216.1	272.0	273.2	276.8	294.2
60°	249.2	159.7	193.4	125.5	141.1	152.5	195.7	249.2	253.4	255.8	270.8
62.5°	208.3	115.9	175.3	113.5	129.1	131.5	179.0	227.6	233.0	234.8	243.8
65°	148.4	97.2	148.9	103.3	116.5	117.1	160.9	205.4	210.1	213.2	219.8
67.5°	100.3	79.2	113.5	93.6	106.9	107.4	143.5	179.5	186.1	188.6	192.8
70°	69.7	52.8	84.1	83.4	96.1	97.2	124.9	156.1	162.1	163.9	166.3
72.5°	51.0	42.6	69.7	75.0	84.7	85.9	105.6	129.7	135.7	137.5	138.7
75°	39.0	45.0	56.4	65.4	72.1	72.6	86.5	105.6	109.9	111.1	111.6
77.5°	31.2	42.0	41.5	52.8	58.8	57.7	67.9	81.7	85.2	85.2	85.2
80°	23.5	33.0	31.2	37.9	43.2	42.0	48.6	58.3	59.4	60.6	60.1
82.5°	17.4	21.0	21.0	24.0	28.8	27.7	32.4	37.9	37.9	37.9	39.0
85°	10.8	12.0	9.6	12.6	16.2	15.6	18.0	20.4	21.0	21.0	19.8
87.5°	6.6	5.4	3.0	4.8	7.2	7.2	8.4	9.0	8.4	8.4	8.4
90°	7.3	5.0	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1
92.5°	48.8	30.0	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8
95°	95.8	61.2	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0
97.5°	107.0	76.5	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7
100°	116.3	88.6	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7
102.5°	125.3	99.6	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8
105°	139.1	117.3	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3
107.5°	158.4	138.1	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9
110°	169.5	151.0	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4



TEST NUMBER: P934658

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	182.4	164.9	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6
115°	201.9	185.7	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5
117.5°	220.9	206.2	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3
120°	231.9	218.1	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8
122.5°	244.6	230.7	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9
125°	261.3	248.6	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2
127.5°	277.1	264.3	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7
130°	287.4	273.6	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9
132.5°	296.0	282.2	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2
135°	306.3	293.7	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1
137.5°	319.1	306.6	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1
140°	328.0	316.5	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1
142.5°	334.5	323.9	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2
145°	344.6	335.4	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3
147.5°	356.9	347.8	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7
150°	363.5	355.3	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5
152.5°	368.2	362.0	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7
155°	377.6	373.2	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9
157.5°	387.0	382.5	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9
160°	391.3	387.8	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1
162.5°	396.0	393.4	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2
165°	402.4	400.0	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0
167.5°	406.3	405.1	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1
170°	410.5	409.3	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1
172.5°	410.9	410.8	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6
175°	413.5	413.5	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5
177.5°	413.5	413.5	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934658

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7	634.7
2.5°	612.5	610.7	613.0	606.5	613.0	610.7	612.5	616.7	613.0	615.4	617.9
5°	537.4	534.4	524.8	517.0	524.8	534.4	537.4	550.0	556.0	566.8	581.2
7.5°	480.3	477.9	475.6	470.8	475.6	477.9	480.3	483.9	490.0	499.6	510.4
10°	467.7	468.3	471.9	471.4	471.9	468.3	467.7	466.5	464.8	466.5	473.2
12.5°	500.2	505.6	525.4	524.2	525.4	505.6	500.2	476.1	459.9	457.0	458.1
15°	537.4	539.2	543.4	544.0	543.4	539.2	537.4	527.8	479.2	458.1	451.5
17.5°	541.0	541.6	544.6	544.6	544.6	541.6	541.0	536.8	520.6	492.3	455.2
20°	538.0	539.2	545.2	546.4	545.2	539.2	538.0	532.6	523.6	513.4	485.2
22.5°	536.8	539.2	544.0	543.4	544.0	539.2	536.8	528.4	520.6	513.4	502.0
25°	530.8	530.8	531.4	532.0	531.4	530.8	530.8	524.2	508.5	506.7	500.2
27.5°	518.2	519.4	523.0	522.4	523.0	519.4	518.2	515.8	499.0	497.2	492.3
30°	506.7	505.6	502.5	500.2	502.5	505.6	506.7	503.2	486.3	481.6	482.8
32.5°	487.6	484.5	481.6	479.8	481.6	484.5	487.6	486.3	473.7	467.2	468.3
35°	464.8	465.4	464.8	463.0	464.8	465.4	464.8	465.9	458.1	452.1	451.5
37.5°	448.6	449.7	449.1	446.8	449.1	449.7	448.6	447.3	436.6	434.8	435.9
40°	431.7	432.3	431.7	429.9	431.7	432.3	431.7	429.3	414.4	414.9	419.1
42.5°	415.5	414.9	413.1	411.9	413.1	414.9	415.5	411.9	392.7	390.9	398.7
45°	396.9	397.5	393.8	392.1	393.8	397.5	396.9	394.5	374.7	369.9	375.3
47.5°	378.3	378.3	375.3	373.4	375.3	378.3	378.3	375.3	354.3	349.4	352.5
50°	358.5	357.9	353.6	353.0	353.6	357.9	358.5	356.7	334.5	330.3	330.3
52.5°	335.7	335.7	336.3	337.4	336.3	335.7	335.7	336.3	316.4	312.2	311.0
55°	315.9	316.4	320.6	321.9	320.6	316.4	315.9	315.9	297.8	293.6	291.2
57.5°	295.5	295.5	298.4	298.4	298.4	295.5	295.5	294.2	276.8	273.2	272.0
60°	272.0	273.2	275.6	275.0	275.6	273.2	272.0	270.8	255.8	253.4	249.2
62.5°	247.4	248.6	249.2	248.0	249.2	248.6	247.4	243.8	234.8	233.0	227.6
65°	221.6	222.8	223.4	222.1	223.4	222.8	221.6	219.8	213.2	210.1	205.4
67.5°	195.2	194.6	193.9	196.3	193.9	194.6	195.2	192.8	188.6	186.1	179.5
70°	168.1	168.1	167.5	168.8	167.5	168.1	168.1	166.3	163.9	162.1	156.1
72.5°	139.3	138.7	141.1	139.3	141.1	138.7	139.3	138.7	137.5	135.7	129.7
75°	111.1	112.3	111.1	112.9	111.1	112.3	111.1	111.6	111.1	109.9	105.6
77.5°	84.7	85.9	84.7	84.7	84.7	85.9	84.7	85.2	85.2	85.2	81.7
80°	60.1	59.4	59.4	58.8	59.4	59.4	60.1	60.1	60.6	59.4	58.3
82.5°	38.4	37.9	37.9	39.0	37.9	37.9	38.4	39.0	37.9	37.9	37.9
85°	21.0	21.6	20.4	20.4	20.4	21.6	21.0	19.8	21.0	21.0	20.4
87.5°	7.8	7.2	7.2	7.2	7.2	7.2	7.8	8.4	8.4	8.4	9.0
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.1	18.8	21.1	18.2
92.5°	52.7	50.7	42.3	33.8	42.3	50.7	52.7	74.8	104.1	118.8	104.3
95°	179.0	172.6	147.3	121.9	147.3	172.6	179.0	235.0	309.8	347.2	293.2
97.5°	413.3	401.2	352.8	304.5	352.8	401.2	413.3	448.7	495.9	519.5	429.6
100°	580.3	565.9	508.4	450.7	508.4	565.9	580.3	577.7	574.3	572.6	472.7
102.5°	723.0	710.6	661.3	611.9	661.3	710.6	723.0	677.8	617.7	587.6	486.3
105°	889.5	882.9	856.4	829.9	856.4	882.9	889.5	788.3	653.4	585.9	487.9
107.5°	976.1	977.7	984.1	990.6	984.1	977.7	976.1	834.9	646.7	552.6	466.1
110°	998.3	1005.2	1032.8	1060.5	1032.8	1005.2	998.3	840.4	630.0	524.8	446.9



TEST NUMBER: P934658

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	984.1	994.8	1037.2	1079.7	1037.2	994.8	984.1	822.6	607.3	499.6	430.1
115°	936.1	950.8	1009.7	1068.6	1009.7	950.8	936.1	780.5	573.1	469.3	410.8
117.5°	869.8	886.1	951.4	1016.6	951.4	886.1	869.8	729.3	542.1	448.5	398.7
120°	825.1	841.0	904.4	967.7	904.4	841.0	825.1	696.8	525.7	440.1	394.7
122.5°	780.4	796.1	858.6	921.2	858.6	796.1	780.4	664.9	510.8	433.8	392.5
125°	721.4	735.8	793.3	850.9	793.3	735.8	721.4	623.2	492.3	426.9	390.8
127.5°	673.9	686.1	734.6	783.2	734.6	686.1	673.9	589.7	477.3	421.1	389.8
130°	643.9	655.1	700.0	744.9	700.0	655.1	643.9	568.9	468.9	418.8	390.4
132.5°	618.4	628.4	668.6	708.8	668.6	628.4	618.4	551.2	461.6	416.9	390.8
135°	582.3	591.0	625.6	660.3	625.6	591.0	582.3	526.1	451.1	413.5	390.4
137.5°	555.6	562.7	591.1	619.5	591.1	562.7	555.6	508.1	444.7	413.0	392.9
140°	534.2	540.9	567.4	593.9	567.4	540.9	534.2	493.1	438.4	411.0	393.2
142.5°	519.3	525.0	547.8	570.6	547.8	525.0	519.3	483.2	435.1	411.0	394.7
145°	496.8	501.1	518.4	535.7	518.4	501.1	496.8	467.3	428.0	408.3	394.7
147.5°	477.9	481.5	495.8	510.1	495.8	481.5	477.9	454.7	423.8	408.3	397.3
150°	467.1	469.9	481.6	493.2	481.6	469.9	467.1	447.5	421.3	408.3	398.8
152.5°	458.5	460.6	469.4	478.2	469.4	460.6	458.5	441.7	419.5	408.3	399.7
155°	448.2	449.6	455.4	461.3	455.4	449.6	448.2	434.9	417.1	408.3	401.7
157.5°	439.3	440.3	444.4	448.5	444.4	440.3	439.3	428.9	415.2	408.3	403.8
160°	434.9	435.5	437.8	440.1	437.8	435.5	434.9	426.1	414.2	408.3	404.7
162.5°	430.7	431.3	433.5	435.7	433.5	431.3	430.7	423.2	413.3	408.3	405.7
165°	424.4	425.0	427.3	429.7	427.3	425.0	424.4	419.0	411.8	408.3	407.1
167.5°	421.6	421.9	422.9	423.8	422.9	421.9	421.6	418.1	413.4	411.0	410.1
170°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	418.1	413.4	411.0	410.9
172.5°	419.4	419.2	418.3	417.4	418.3	419.2	419.4	416.6	412.9	411.0	411.0
175°	416.3	416.3	416.3	416.3	416.3	416.3	416.3	414.5	412.2	411.0	411.6
177.5°	415.8	415.5	414.5	413.5	414.5	415.5	415.8	414.4	412.5	411.6	412.0
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	634.7	634.7	634.7	634.7	634.7
2.5°	626.9	629.9	631.6	634.1	640.1
5°	602.8	614.3	617.9	626.9	637.6
7.5°	550.0	584.8	594.4	616.1	632.9
10°	499.0	533.8	550.6	601.6	626.9
12.5°	473.2	493.6	505.0	576.4	618.5
15°	457.0	471.4	479.8	542.8	608.8
17.5°	444.3	454.5	460.5	509.8	595.7
20°	436.6	441.3	446.8	485.8	580.6
22.5°	431.1	428.1	432.3	469.0	560.2
25°	427.5	416.1	420.9	455.7	536.2
27.5°	430.6	405.3	407.1	443.7	511.0
30°	431.1	392.1	392.7	431.1	482.8
32.5°	426.9	378.3	378.9	415.5	451.0
35°	416.7	362.1	361.4	397.5	407.7
37.5°	402.9	344.7	344.7	377.6	360.3
40°	386.1	327.2	329.0	351.9	318.2
42.5°	365.6	308.6	311.0	317.7	287.0
45°	343.4	290.6	292.4	268.4	263.0
47.5°	318.8	272.0	272.6	222.8	255.2
50°	289.5	252.7	250.4	191.0	254.6
52.5°	263.6	231.8	224.5	172.9	231.2
55°	238.3	209.6	193.9	159.1	214.3
57.5°	216.1	180.8	165.7	142.9	210.8
60°	195.7	152.5	141.1	125.5	193.4
62.5°	179.0	131.5	129.1	113.5	175.3
65°	160.9	117.1	116.5	103.3	148.9
67.5°	143.5	107.4	106.9	93.6	113.5
70°	124.9	97.2	96.1	83.4	84.1
72.5°	105.6	85.9	84.7	75.0	69.7
75°	86.5	72.6	72.1	65.4	56.4
77.5°	67.9	57.7	58.8	52.8	41.5
80°	48.6	42.0	43.2	37.9	31.2
82.5°	32.4	27.7	28.8	24.0	21.0
85°	18.0	15.6	16.2	12.6	9.6
87.5°	8.4	7.2	7.2	4.8	3.0
90°	12.3	7.8	7.3	5.0	2.8
92.5°	75.3	53.5	48.8	30.0	11.1
95°	185.3	104.4	95.8	61.2	26.7
97.5°	249.6	114.6	107.0	76.5	46.1
100°	273.0	123.2	116.3	88.6	61.1
102.5°	283.7	131.8	125.3	99.6	73.9
105°	291.7	144.6	139.1	117.3	95.4
107.5°	293.2	163.5	158.4	138.1	117.6
110°	291.0	174.0	169.5	151.0	132.7



TEST NUMBER: P934658

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	291.1	186.8	182.4	164.9	147.4
115°	293.8	205.9	201.9	185.7	169.6
117.5°	299.2	224.5	220.9	206.2	191.5
120°	303.6	235.4	231.9	218.1	204.3
122.5°	310.0	248.1	244.6	230.7	216.8
125°	318.6	264.5	261.3	248.6	235.9
127.5°	327.2	280.3	277.1	264.3	251.5
130°	333.5	290.9	287.4	273.6	259.8
132.5°	338.6	299.5	296.0	282.2	268.4
135°	344.2	309.4	306.3	293.7	281.1
137.5°	352.5	322.2	319.1	306.6	294.2
140°	357.6	330.8	328.0	316.5	305.0
142.5°	361.8	337.2	334.5	323.9	313.4
145°	367.3	346.9	344.6	335.4	326.1
147.5°	375.5	359.1	356.9	347.8	338.9
150°	379.8	365.6	363.5	355.3	347.2
152.5°	382.6	369.7	368.2	362.0	355.8
155°	388.7	378.8	377.6	373.2	368.6
157.5°	394.7	388.0	387.0	382.5	378.0
160°	397.5	392.1	391.3	387.8	384.4
162.5°	400.5	396.6	396.0	393.4	390.8
165°	404.8	403.0	402.4	400.0	397.7
167.5°	408.1	406.6	406.3	405.1	404.1
170°	410.9	410.8	410.5	409.3	408.3
172.5°	411.0	411.0	410.9	410.8	410.5
175°	412.7	413.5	413.5	413.5	413.5
177.5°	412.9	413.5	413.5	413.5	413.5
180°	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934658

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.74	10.50	10.79	11.56	12.99	12.54	13.30	13.59	14.36	15.79
	3H	10.21	10.89	11.27	11.96	13.41	13.86	14.55	14.93	15.61	17.06
	4H	10.39	11.04	11.47	12.11	13.57	14.30	14.94	15.37	16.01	17.47
	6H	10.51	11.10	11.59	12.17	13.64	14.57	15.16	15.65	16.24	17.71
	8H	10.51	11.07	11.59	12.16	13.62	14.64	15.20	15.72	16.29	17.75
	12H	10.47	11.01	11.57	12.09	13.58	14.67	15.21	15.76	16.29	17.77
4H	2H	10.75	11.40	11.83	12.47	13.92	12.93	13.58	14.02	14.65	16.11
	3H	11.77	12.31	12.86	13.40	14.87	14.42	14.96	15.51	16.06	17.53
	4H	12.04	12.53	13.13	13.62	15.11	14.94	15.43	16.03	16.52	18.01
	6H	12.16	12.58	13.26	13.69	15.18	15.29	15.71	16.39	16.82	18.31
	8H	12.16	12.56	13.26	13.66	15.16	15.39	15.79	16.49	16.89	18.39
	12H	12.12	12.48	13.24	13.60	15.10	15.44	15.79	16.55	16.91	18.41
8H	4H	12.48	12.88	13.58	13.98	15.48	15.06	15.45	16.16	16.55	18.05
	6H	12.74	13.06	13.86	14.21	15.71	15.48	15.81	16.60	16.95	18.45
	8H	12.78	13.07	13.91	14.19	15.71	15.63	15.91	16.76	17.04	18.55
	12H	12.76	13.01	13.89	14.13	15.69	15.71	15.97	16.85	17.09	18.64
12H	4H	12.48	12.84	13.60	13.95	15.46	15.02	15.37	16.13	16.49	17.99
	6H	12.80	13.08	13.93	14.21	15.72	15.48	15.76	16.61	16.89	18.40
	8H	12.86	13.11	13.99	14.23	15.78	15.63	15.88	16.76	17.00	18.55