

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: P934232

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934232
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-92765-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

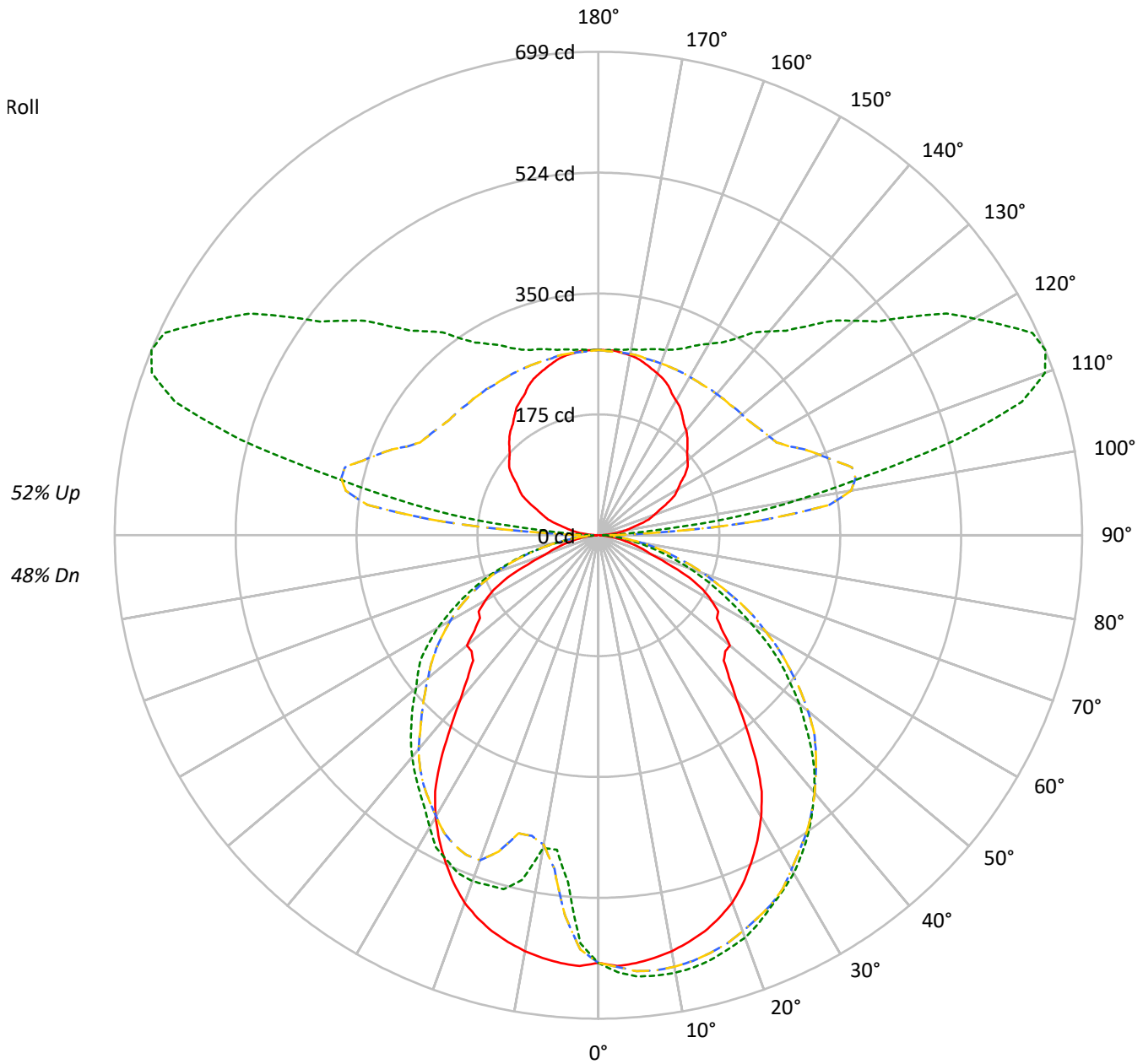
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339.9 lumens
Efficiency: N/A
Efficacy: 117.6 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

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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	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5736	5736	5736	5736
5°	5773	5790	5773	4553
10°	5728	5704	5728	4078
15°	5659	5581	5659	4659
20°	5534	5433	5534	4669
25°	5286	5220	5286	4571
30°	4966	5043	4966	4353
35°	4421	4819	4421	4114
40°	3677	4556	3677	3935
45°	3279	4246	3279	3727
50°	3477	3878	3477	3518
55°	3261	3481	3261	3398
60°	3351	2956	3351	3113
65°	3022	2444	3022	2731
70°	2079	1948	2079	2290
75°	1800	1439	1800	1724
80°	1423	953	1423	1036
85°	770	504	770	429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5036 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.7
10°-20°	158.4	4.7
20°-30°	244.9	7.3
30°-40°	292.4	8.8
40°-50°	294.1	8.8
50°-60°	255.9	7.7
60°-70°	181.4	5.4
70°-80°	96.0	2.9
80°-90°	24.9	0.7
90°-100°	130.5	3.9
100°-110°	343.2	10.3
110°-120°	355.9	10.7
120°-130°	285.4	8.5
130°-140°	224.0	6.7
140°-150°	171.9	5.1
150°-160°	123.8	3.7
160°-170°	75.7	2.3
170°-180°	25.6	0.8
0°-30°	459.1	13.7
0°-40°	751.5	22.5
0°-60°	1301.5	39.0
0°-90°	1603.8	48.0
90°-120°	829.6	24.8
90°-150°	1510.9	45.2
90°-180°	1736.0	52.0
0°-180°	3339.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	618	618	618	618	618	
5°	621	640	621	504	621	59
15°	593	635	593	530	593	167
25°	522	592	522	518	522	240
35°	397	528	397	451	397	246
45°	256	435	256	382	256	205
55°	209	321	209	314	209	192
65°	145	194	145	216	145	139
75°	55	92	55	110	55	58
85°	9	23	9	20	9	13
90°	2	7	2	7	2	2
95°	17	79	17	79	17	19
105°	62	537	62	537	62	66
115°	110	692	110	692	110	108
125°	153	551	153	551	153	136
135°	182	428	182	428	182	141
145°	211	347	211	347	211	132
155°	239	299	239	299	239	110
165°	258	278	258	278	258	73
175°	268	270	268	270	268	25
180°	268	268	268	268	268	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	623.4	623.4	626.9	628.1	628.1	626.4	624.6	626.4	631.6	633.4	632.7
5°	621.1	625.8	632.2	633.4	634.6	634.0	632.7	634.0	639.8	640.9	641.6
7.5°	616.4	625.2	633.4	635.1	636.8	635.1	634.6	635.7	641.6	642.7	642.7
10°	610.6	622.8	632.2	633.4	635.1	633.4	633.4	635.7	641.6	642.7	643.3
12.5°	602.4	619.3	628.1	629.3	631.6	631.0	630.5	632.7	638.7	639.8	639.8
15°	593.0	612.9	621.1	622.3	626.4	625.2	625.2	627.5	634.0	635.7	635.1
17.5°	580.2	604.8	614.1	615.8	618.8	618.2	618.8	621.1	626.9	628.1	628.7
20°	565.5	593.6	604.8	606.5	609.4	609.4	609.4	612.3	618.2	620.5	620.5
22.5°	545.6	581.9	593.6	594.8	598.3	598.3	599.4	603.5	608.8	609.4	609.4
25°	522.3	569.0	578.9	582.5	586.0	587.8	589.5	591.8	593.6	593.0	593.6
27.5°	497.7	552.7	565.5	567.9	572.6	574.3	576.7	577.2	577.8	579.6	578.4
30°	470.2	529.8	549.1	551.5	559.1	560.3	557.9	559.1	562.0	563.2	564.4
32.5°	439.2	495.9	532.2	537.4	544.5	541.0	540.4	542.1	546.9	546.9	548.0
35°	397.1	469.6	516.4	521.1	526.4	522.3	524.6	525.1	528.1	529.8	529.2
37.5°	350.9	446.8	500.0	503.5	507.6	502.4	505.9	507.6	510.0	508.8	508.8
40°	309.9	411.2	480.8	483.1	486.6	482.5	486.0	487.2	488.3	487.2	486.6
42.5°	279.6	371.9	460.3	463.2	460.9	463.7	465.0	467.3	465.5	463.2	463.2
45°	256.1	361.5	438.0	441.5	438.0	442.7	444.5	444.5	439.2	438.0	437.4
47.5°	248.5	340.4	415.8	415.8	414.0	419.9	422.8	418.8	413.5	411.7	411.7
50°	248.0	317.0	385.4	383.1	391.3	398.3	395.4	391.3	387.2	380.7	380.7
52.5°	225.2	288.3	346.2	355.0	367.8	371.9	367.3	363.2	356.1	353.3	350.9
55°	208.8	258.5	310.5	328.1	341.6	346.8	338.0	333.9	323.4	321.7	320.5
57.5°	205.3	215.2	277.8	300.0	316.4	315.9	310.5	302.9	294.1	292.4	291.9
60°	188.4	155.6	242.7	269.0	285.9	284.2	279.6	272.5	264.3	263.2	262.0
62.5°	170.7	112.8	202.9	232.7	256.7	256.1	252.1	241.6	235.7	232.7	230.4
65°	145.0	94.7	144.5	193.6	228.1	229.3	220.5	212.9	206.4	202.9	202.3
67.5°	110.6	77.2	97.7	161.4	200.6	199.4	188.4	184.8	176.6	174.8	171.4
70°	81.9	51.5	67.8	131.0	173.7	170.7	162.0	157.9	150.3	146.2	143.9
72.5°	67.8	41.5	49.7	101.8	146.2	142.7	135.1	130.5	124.0	120.5	118.2
75°	54.9	43.9	38.0	75.4	118.7	116.4	109.4	104.6	99.4	94.7	95.3
77.5°	40.4	40.9	30.4	55.5	94.2	90.7	86.6	80.8	78.4	73.7	73.7
80°	30.4	32.2	22.8	38.0	67.8	67.8	64.4	60.3	56.2	53.8	53.8
82.5°	20.5	20.5	16.9	24.0	46.2	44.5	42.1	40.9	38.6	37.4	37.4
85°	9.3	11.7	10.6	14.7	25.1	26.3	26.3	25.1	24.6	23.4	24.0
87.5°	3.0	5.2	6.5	8.2	12.9	13.4	14.0	14.0	14.0	14.7	14.7
90°	1.8	3.2	4.7	5.1	7.9	11.8	13.7	12.1	9.1	6.8	6.8
92.5°	7.2	19.4	31.7	34.7	48.7	67.5	76.9	67.4	48.4	34.2	32.8
95°	17.3	39.6	62.0	67.6	120.0	189.8	224.8	200.6	152.2	115.9	111.8
97.5°	29.8	49.5	69.2	74.2	161.6	278.2	336.4	321.2	290.6	267.6	259.8
100°	39.5	57.4	75.3	79.8	176.8	306.1	370.8	371.9	374.2	375.8	366.5
102.5°	47.8	64.5	81.2	85.4	183.7	314.9	380.5	400.0	439.0	468.2	460.2
105°	61.8	76.0	90.1	93.7	188.9	315.9	379.4	423.1	510.5	576.1	571.8
107.5°	76.2	89.4	102.6	105.9	189.8	301.9	357.9	418.8	540.7	632.1	633.2
110°	85.9	97.8	109.7	112.7	188.4	289.4	339.9	408.0	544.3	646.5	651.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	95.4	106.7	118.1	121.0	188.4	278.5	323.5	393.3	532.7	637.4	644.3
115°	109.8	120.3	130.7	133.3	190.2	266.0	303.9	371.1	505.4	606.2	615.7
117.5°	124.0	133.5	143.0	145.4	193.8	258.2	290.5	351.1	472.3	563.2	573.8
120°	132.3	141.3	150.2	152.4	196.6	255.6	285.1	340.4	451.3	534.4	544.7
122.5°	140.4	149.5	158.4	160.7	200.7	254.2	280.9	330.8	430.6	505.4	515.5
125°	152.8	161.0	169.2	171.3	206.3	253.1	276.4	318.8	403.6	467.1	476.5
127.5°	162.8	171.2	179.5	181.6	211.9	252.5	272.7	309.0	381.8	436.4	444.2
130°	168.2	177.2	186.1	188.4	216.0	252.8	271.2	303.6	368.4	417.0	424.2
132.5°	173.8	182.8	191.7	193.9	219.3	253.1	270.0	298.9	356.9	400.4	407.0
135°	182.1	190.2	198.4	200.4	222.9	252.8	267.8	292.0	340.6	377.1	382.6
137.5°	190.5	198.6	206.7	208.7	228.3	254.4	267.5	287.9	329.0	359.8	364.4
140°	197.5	204.9	212.4	214.3	231.5	254.6	266.1	283.9	319.4	346.0	350.3
142.5°	202.9	209.8	216.6	218.4	234.3	255.5	266.1	281.8	312.9	336.3	339.9
145°	211.2	217.1	223.2	224.6	237.9	255.6	264.4	277.1	302.6	321.7	324.5
147.5°	219.5	225.3	231.1	232.6	243.2	257.3	264.4	274.4	294.5	309.5	311.8
150°	224.8	230.0	235.4	236.7	245.9	258.2	264.4	272.9	289.8	302.5	304.4
152.5°	230.4	234.4	238.4	239.4	247.7	258.8	264.4	271.6	286.1	296.9	298.3
155°	238.7	241.6	244.6	245.3	251.7	260.1	264.4	270.2	281.7	290.3	291.3
157.5°	244.8	247.7	250.5	251.2	255.6	261.4	264.4	268.8	277.8	284.5	285.2
160°	249.0	251.1	253.4	253.9	257.4	262.0	264.4	268.2	275.9	281.7	282.0
162.5°	253.1	254.7	256.4	256.8	259.3	262.7	264.4	267.6	274.1	279.0	279.3
165°	257.6	259.1	260.7	261.0	262.1	263.6	264.4	266.7	271.3	274.8	275.1
167.5°	261.7	262.4	263.1	263.3	264.2	265.5	266.1	267.7	270.8	273.0	273.2
170°	264.4	265.1	265.8	266.0	266.1	266.1	266.1	267.7	270.8	273.0	273.0
172.5°	265.8	266.0	266.1	266.1	266.1	266.1	266.1	267.4	269.7	271.6	271.4
175°	267.8	267.8	267.8	267.8	267.3	266.5	266.1	266.9	268.5	269.6	269.6
177.5°	267.8	267.8	267.8	267.8	267.4	266.8	266.6	267.2	268.4	269.3	269.1
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	634.0	632.2	634.0	632.7	633.4	631.6	626.4	624.6	626.4	628.1	628.1
5°	641.6	640.4	641.6	641.6	640.9	639.8	634.0	632.7	634.0	634.6	633.4
7.5°	643.9	642.2	643.9	642.7	642.7	641.6	635.7	634.6	635.1	636.8	635.1
10°	643.9	642.2	643.9	643.3	642.7	641.6	635.7	633.4	633.4	635.1	633.4
12.5°	640.9	639.8	640.9	639.8	639.8	638.7	632.7	630.5	631.0	631.6	629.3
15°	636.3	634.6	636.3	635.1	635.7	634.0	627.5	625.2	625.2	626.4	622.3
17.5°	629.3	626.9	629.3	628.7	628.1	626.9	621.1	618.8	618.2	618.8	615.8
20°	621.1	619.3	621.1	620.5	620.5	618.2	612.3	609.4	609.4	609.4	606.5
22.5°	608.2	606.5	608.2	609.4	609.4	608.8	603.5	599.4	598.3	598.3	594.8
25°	593.6	591.8	593.6	593.6	593.0	593.6	591.8	589.5	587.8	586.0	582.5
27.5°	579.6	578.4	579.6	578.4	579.6	577.8	577.2	576.7	574.3	572.6	567.9
30°	565.5	564.4	565.5	564.4	563.2	562.0	559.1	557.9	560.3	559.1	551.5
32.5°	548.0	546.9	548.0	548.0	546.9	546.9	542.1	540.4	541.0	544.5	537.4
35°	529.8	528.1	529.8	529.2	529.8	528.1	525.1	524.6	522.3	526.4	521.1
37.5°	508.8	507.1	508.8	508.8	508.8	510.0	507.6	505.9	502.4	507.6	503.5
40°	487.2	484.9	487.2	486.6	487.2	488.3	487.2	486.0	482.5	486.6	483.1
42.5°	462.6	462.0	462.6	463.2	463.2	465.5	467.3	465.0	463.7	460.9	463.2
45°	436.3	435.1	436.3	437.4	438.0	439.2	444.5	444.5	442.7	438.0	441.5
47.5°	408.2	405.3	408.2	411.7	411.7	413.5	418.8	422.8	419.9	414.0	415.8
50°	378.4	379.0	378.4	380.7	380.7	387.2	391.3	395.4	398.3	391.3	383.1
52.5°	349.2	348.6	349.2	350.9	353.3	356.1	363.2	367.3	371.9	367.8	355.0
55°	319.9	321.1	319.9	320.5	321.7	323.4	333.9	338.0	346.8	341.6	328.1
57.5°	290.6	288.9	290.6	291.9	292.4	294.1	302.9	310.5	315.9	316.4	300.0
60°	256.7	254.4	256.7	262.0	263.2	264.3	272.5	279.6	284.2	285.9	269.0
62.5°	226.9	222.8	226.9	230.4	232.7	235.7	241.6	252.1	256.1	256.7	232.7
65°	195.3	193.6	195.3	202.3	202.9	206.4	212.9	220.5	229.3	228.1	193.6
67.5°	166.6	166.6	166.6	171.4	174.8	176.6	184.8	188.4	199.4	200.6	161.4
70°	140.4	139.8	140.4	143.9	146.2	150.3	157.9	162.0	170.7	173.7	131.0
72.5°	115.2	114.6	115.2	118.2	120.5	124.0	130.5	135.1	142.7	146.2	101.8
75°	93.0	91.8	93.0	95.3	94.7	99.4	104.6	109.4	116.4	118.7	75.4
77.5°	71.3	71.3	71.3	73.7	73.7	78.4	80.8	86.6	90.7	94.2	55.5
80°	53.2	52.7	53.2	53.8	53.8	56.2	60.3	64.4	67.8	67.8	38.0
82.5°	37.4	36.3	37.4	37.4	37.4	38.6	40.9	42.1	44.5	46.2	24.0
85°	23.4	23.4	23.4	24.0	23.4	24.6	25.1	26.3	26.3	25.1	14.7
87.5°	15.2	14.7	15.2	14.7	14.7	14.0	14.0	14.0	13.4	12.9	8.2
90°	6.8	6.8	6.8	6.8	6.8	9.1	12.1	13.7	11.8	7.9	5.1
92.5°	27.4	21.9	27.4	32.8	34.2	48.4	67.4	76.9	67.5	48.7	34.7
95°	95.3	78.9	95.3	111.8	115.9	152.2	200.6	224.8	189.8	120.0	67.6
97.5°	228.5	197.2	228.5	259.8	267.6	290.6	321.2	336.4	278.2	161.6	74.2
100°	329.2	291.9	329.2	366.5	375.8	374.2	371.9	370.8	306.1	176.8	79.8
102.5°	428.3	396.3	428.3	460.2	468.2	439.0	400.0	380.5	314.9	183.7	85.4
105°	554.6	537.4	554.6	571.8	576.1	510.5	423.1	379.4	315.9	188.9	93.7
107.5°	637.3	641.5	637.3	633.2	632.1	540.7	418.8	357.9	301.9	189.8	105.9
110°	668.9	686.7	668.9	651.0	646.5	544.3	408.0	339.9	289.4	188.4	112.7



TEST NUMBER: P934232

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	671.7	699.2	671.7	644.3	637.4	532.7	393.3	323.5	278.5	188.4	121.0
115°	653.9	692.0	653.9	615.7	606.2	505.4	371.1	303.9	266.0	190.2	133.3
117.5°	616.1	658.4	616.1	573.8	563.2	472.3	351.1	290.5	258.2	193.8	145.4
120°	585.7	626.7	585.7	544.7	534.4	451.3	340.4	285.1	255.6	196.6	152.4
122.5°	556.1	596.6	556.1	515.5	505.4	430.6	330.8	280.9	254.2	200.7	160.7
125°	513.7	551.0	513.7	476.5	467.1	403.6	318.8	276.4	253.1	206.3	171.3
127.5°	475.7	507.2	475.7	444.2	436.4	381.8	309.0	272.7	252.5	211.9	181.6
130°	453.4	482.4	453.4	424.2	417.0	368.4	303.6	271.2	252.8	216.0	188.4
132.5°	433.0	459.0	433.0	407.0	400.4	356.9	298.9	270.0	253.1	219.3	193.9
135°	405.1	427.6	405.1	382.6	377.1	340.6	292.0	267.8	252.8	222.9	200.4
137.5°	382.7	401.1	382.7	364.4	359.8	329.0	287.9	267.5	254.4	228.3	208.7
140°	367.5	384.7	367.5	350.3	346.0	319.4	283.9	266.1	254.6	231.5	214.3
142.5°	354.7	369.6	354.7	339.9	336.3	312.9	281.8	266.1	255.5	234.3	218.4
145°	335.7	346.9	335.7	324.5	321.7	302.6	277.1	264.4	255.6	237.9	224.6
147.5°	321.1	330.3	321.1	311.8	309.5	294.5	274.4	264.4	257.3	243.2	232.6
150°	311.9	319.4	311.9	304.4	302.5	289.8	272.9	264.4	258.2	245.9	236.7
152.5°	304.0	309.7	304.0	298.3	296.9	286.1	271.6	264.4	258.8	247.7	239.4
155°	295.0	298.8	295.0	291.3	290.3	281.7	270.2	264.4	260.1	251.7	245.3
157.5°	287.9	290.5	287.9	285.2	284.5	277.8	268.8	264.4	261.4	255.6	251.2
160°	283.6	285.1	283.6	282.0	281.7	275.9	268.2	264.4	262.0	257.4	253.9
162.5°	280.8	282.2	280.8	279.3	279.0	274.1	267.6	264.4	262.7	259.3	256.8
165°	276.7	278.3	276.7	275.1	274.8	271.3	266.7	264.4	263.6	262.1	261.0
167.5°	273.8	274.4	273.8	273.2	273.0	270.8	267.7	266.1	265.5	264.2	263.3
170°	273.0	273.0	273.0	273.0	273.0	270.8	267.7	266.1	266.1	266.1	266.0
172.5°	270.9	270.3	270.9	271.4	271.6	269.7	267.4	266.1	266.1	266.1	266.1
175°	269.6	269.6	269.6	269.6	269.6	268.5	266.9	266.1	266.5	267.3	267.8
177.5°	268.5	267.8	268.5	269.1	269.3	268.4	267.2	266.6	266.8	267.4	267.8
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P934232

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	626.9	623.4	623.4	617.6	615.2	613.5	610.6	601.8	599.4	597.1	600.7
5°	632.2	625.8	621.1	610.6	601.8	598.3	587.1	566.1	552.1	541.5	535.7
7.5°	633.4	625.2	616.4	600.0	578.9	569.6	535.7	497.1	486.6	477.3	471.3
10°	632.2	622.8	610.6	586.0	536.3	519.9	486.0	460.9	454.4	452.7	454.4
12.5°	628.1	619.3	602.4	561.4	491.8	480.8	460.9	446.2	445.1	448.0	463.7
15°	621.1	612.9	593.0	528.7	467.3	459.1	445.1	439.8	446.2	466.7	514.1
17.5°	614.1	604.8	580.2	496.5	448.6	442.7	432.8	443.3	479.5	507.1	522.9
20°	604.8	593.6	565.5	473.2	435.1	429.8	425.2	472.6	500.0	510.0	518.8
22.5°	593.6	581.9	545.6	456.8	421.1	417.0	419.9	488.9	500.0	507.1	514.7
25°	578.9	569.0	522.3	443.9	409.9	405.3	416.4	487.2	493.6	495.3	510.6
27.5°	565.5	552.7	497.7	432.2	396.5	394.8	419.4	479.5	484.2	486.0	502.4
30°	549.1	529.8	470.2	419.9	382.5	381.9	419.9	470.2	469.1	473.7	490.1
32.5°	532.2	495.9	439.2	404.7	369.0	368.4	415.8	456.2	455.0	461.4	473.7
35°	516.4	469.6	397.1	387.2	352.0	352.7	405.8	439.8	440.4	446.2	453.8
37.5°	500.0	446.8	350.9	367.8	335.7	335.7	392.4	424.6	423.5	425.2	435.7
40°	480.8	411.2	309.9	342.7	320.5	318.7	376.0	408.2	404.1	403.6	418.1
42.5°	460.3	371.9	279.6	309.4	302.9	300.6	356.1	388.3	380.7	382.5	401.2
45°	438.0	361.5	256.1	261.4	284.8	283.1	334.5	365.6	360.2	364.9	384.2
47.5°	415.8	340.4	248.5	217.0	265.5	264.9	310.5	343.3	340.4	345.1	365.6
50°	385.4	317.0	248.0	186.0	243.9	246.2	281.9	321.7	321.7	325.8	347.4
52.5°	346.2	288.3	225.2	168.4	218.7	225.8	256.7	302.9	304.1	308.2	327.5
55°	310.5	258.5	208.8	155.0	188.9	204.1	232.1	283.7	285.9	290.0	307.7
57.5°	277.8	215.2	205.3	139.2	161.4	176.1	210.5	264.9	266.1	269.6	286.6
60°	242.7	155.6	188.4	122.3	137.4	148.5	190.6	242.7	246.8	249.1	263.8
62.5°	202.9	112.8	170.7	110.6	125.7	128.1	174.3	221.7	226.9	228.6	237.5
65°	144.5	94.7	145.0	100.6	113.5	114.1	156.7	200.0	204.7	207.6	214.1
67.5°	97.7	77.2	110.6	91.2	104.1	104.6	139.8	174.8	181.3	183.7	187.7
70°	67.8	51.5	81.9	81.3	93.6	94.7	121.6	152.1	157.9	159.7	162.0
72.5°	49.7	41.5	67.8	73.1	82.5	83.6	102.9	126.4	132.2	133.9	135.1
75°	38.0	43.9	54.9	63.7	70.2	70.7	84.2	102.9	107.0	108.2	108.7
77.5°	30.4	40.9	40.4	51.5	57.3	56.2	66.1	79.5	83.0	83.0	83.0
80°	22.8	32.2	30.4	36.9	42.1	40.9	47.4	56.8	57.9	59.0	58.5
82.5°	16.9	20.5	20.5	23.4	28.1	26.9	31.6	36.9	36.9	36.9	38.0
85°	10.6	11.7	9.3	12.3	15.8	15.2	17.5	19.9	20.5	20.5	19.3
87.5°	6.5	5.2	3.0	4.7	7.0	7.0	8.2	8.8	8.2	8.2	8.2
90°	4.7	3.2	1.8	3.2	4.7	5.1	7.9	11.8	13.7	12.1	9.1
92.5°	31.7	19.4	7.2	19.4	31.7	34.7	48.7	67.5	76.9	67.4	48.4
95°	62.0	39.6	17.3	39.6	62.0	67.6	120.0	189.8	224.8	200.6	152.2
97.5°	69.2	49.5	29.8	49.5	69.2	74.2	161.6	278.2	336.4	321.2	290.6
100°	75.3	57.4	39.5	57.4	75.3	79.8	176.8	306.1	370.8	371.9	374.2
102.5°	81.2	64.5	47.8	64.5	81.2	85.4	183.7	314.9	380.5	400.0	439.0
105°	90.1	76.0	61.8	76.0	90.1	93.7	188.9	315.9	379.4	423.1	510.5
107.5°	102.6	89.4	76.2	89.4	102.6	105.9	189.8	301.9	357.9	418.8	540.7
110°	109.7	97.8	85.9	97.8	109.7	112.7	188.4	289.4	339.9	408.0	544.3



TEST NUMBER: P934232

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	118.1	106.7	95.4	106.7	118.1	121.0	188.4	278.5	323.5	393.3	532.7
115°	130.7	120.3	109.8	120.3	130.7	133.3	190.2	266.0	303.9	371.1	505.4
117.5°	143.0	133.5	124.0	133.5	143.0	145.4	193.8	258.2	290.5	351.1	472.3
120°	150.2	141.3	132.3	141.3	150.2	152.4	196.6	255.6	285.1	340.4	451.3
122.5°	158.4	149.5	140.4	149.5	158.4	160.7	200.7	254.2	280.9	330.8	430.6
125°	169.2	161.0	152.8	161.0	169.2	171.3	206.3	253.1	276.4	318.8	403.6
127.5°	179.5	171.2	162.8	171.2	179.5	181.6	211.9	252.5	272.7	309.0	381.8
130°	186.1	177.2	168.2	177.2	186.1	188.4	216.0	252.8	271.2	303.6	368.4
132.5°	191.7	182.8	173.8	182.8	191.7	193.9	219.3	253.1	270.0	298.9	356.9
135°	198.4	190.2	182.1	190.2	198.4	200.4	222.9	252.8	267.8	292.0	340.6
137.5°	206.7	198.6	190.5	198.6	206.7	208.7	228.3	254.4	267.5	287.9	329.0
140°	212.4	204.9	197.5	204.9	212.4	214.3	231.5	254.6	266.1	283.9	319.4
142.5°	216.6	209.8	202.9	209.8	216.6	218.4	234.3	255.5	266.1	281.8	312.9
145°	223.2	217.1	211.2	217.1	223.2	224.6	237.9	255.6	264.4	277.1	302.6
147.5°	231.1	225.3	219.5	225.3	231.1	232.6	243.2	257.3	264.4	274.4	294.5
150°	235.4	230.0	224.8	230.0	235.4	236.7	245.9	258.2	264.4	272.9	289.8
152.5°	238.4	234.4	230.4	234.4	238.4	239.4	247.7	258.8	264.4	271.6	286.1
155°	244.6	241.6	238.7	241.6	244.6	245.3	251.7	260.1	264.4	270.2	281.7
157.5°	250.5	247.7	244.8	247.7	250.5	251.2	255.6	261.4	264.4	268.8	277.8
160°	253.4	251.1	249.0	251.1	253.4	253.9	257.4	262.0	264.4	268.2	275.9
162.5°	256.4	254.7	253.1	254.7	256.4	256.8	259.3	262.7	264.4	267.6	274.1
165°	260.7	259.1	257.6	259.1	260.7	261.0	262.1	263.6	264.4	266.7	271.3
167.5°	263.1	262.4	261.7	262.4	263.1	263.3	264.2	265.5	266.1	267.7	270.8
170°	265.8	265.1	264.4	265.1	265.8	266.0	266.1	266.1	266.1	267.7	270.8
172.5°	266.1	266.0	265.8	266.0	266.1	266.1	266.1	266.1	266.1	267.4	269.7
175°	267.8	267.8	267.8	267.8	267.8	267.8	267.3	266.5	266.1	266.9	268.5
177.5°	267.8	267.8	267.8	267.8	267.8	267.8	267.4	266.8	266.6	267.2	268.4
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P934232

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	596.6	594.8	597.1	590.7	597.1	594.8	596.6	600.7	597.1	599.4	601.8
5°	523.4	520.5	511.2	503.5	511.2	520.5	523.4	535.7	541.5	552.1	566.1
7.5°	467.8	465.5	463.2	458.5	463.2	465.5	467.8	471.3	477.3	486.6	497.1
10°	455.6	456.2	459.6	459.1	459.6	456.2	455.6	454.4	452.7	454.4	460.9
12.5°	487.2	492.4	511.7	510.6	511.7	492.4	487.2	463.7	448.0	445.1	446.2
15°	523.4	525.1	529.2	529.8	529.2	525.1	523.4	514.1	466.7	446.2	439.8
17.5°	527.0	527.5	530.5	530.5	530.5	527.5	527.0	522.9	507.1	479.5	443.3
20°	524.0	525.1	531.1	532.2	531.1	525.1	524.0	518.8	510.0	500.0	472.6
22.5°	522.9	525.1	529.8	529.2	529.8	525.1	522.9	514.7	507.1	500.0	488.9
25°	517.0	517.0	517.6	518.2	517.6	517.0	517.0	510.6	495.3	493.6	487.2
27.5°	504.7	505.9	509.4	508.8	509.4	505.9	504.7	502.4	486.0	484.2	479.5
30°	493.6	492.4	489.5	487.2	489.5	492.4	493.6	490.1	473.7	469.1	470.2
32.5°	474.9	471.9	469.1	467.3	469.1	471.9	474.9	473.7	461.4	455.0	456.2
35°	452.7	453.3	452.7	450.9	452.7	453.3	452.7	453.8	446.2	440.4	439.8
37.5°	436.9	438.0	437.4	435.1	437.4	438.0	436.9	435.7	425.2	423.5	424.6
40°	420.5	421.1	420.5	418.8	420.5	421.1	420.5	418.1	403.6	404.1	408.2
42.5°	404.7	404.1	402.4	401.2	402.4	404.1	404.7	401.2	382.5	380.7	388.3
45°	386.6	387.2	383.6	381.9	383.6	387.2	386.6	384.2	364.9	360.2	365.6
47.5°	368.4	368.4	365.6	363.7	365.6	368.4	368.4	365.6	345.1	340.4	343.3
50°	349.2	348.6	344.5	343.8	344.5	348.6	349.2	347.4	325.8	321.7	321.7
52.5°	326.9	326.9	327.5	328.7	327.5	326.9	326.9	327.5	308.2	304.1	302.9
55°	307.7	308.2	312.3	313.5	312.3	308.2	307.7	307.7	290.0	285.9	283.7
57.5°	287.8	287.8	290.6	290.6	290.6	287.8	287.8	286.6	269.6	266.1	264.9
60°	264.9	266.1	268.4	267.9	268.4	266.1	264.9	263.8	249.1	246.8	242.7
62.5°	240.9	242.2	242.7	241.6	242.7	242.2	240.9	237.5	228.6	226.9	221.7
65°	215.8	217.0	217.6	216.4	217.6	217.0	215.8	214.1	207.6	204.7	200.0
67.5°	190.1	189.5	188.9	191.2	188.9	189.5	190.1	187.7	183.7	181.3	174.8
70°	163.8	163.8	163.2	164.4	163.2	163.8	163.8	162.0	159.7	157.9	152.1
72.5°	135.7	135.1	137.4	135.7	137.4	135.1	135.7	135.1	133.9	132.2	126.4
75°	108.2	109.4	108.2	110.0	108.2	109.4	108.2	108.7	108.2	107.0	102.9
77.5°	82.5	83.6	82.5	82.5	82.5	83.6	82.5	83.0	83.0	83.0	79.5
80°	58.5	57.9	57.9	57.3	57.9	57.9	58.5	58.5	59.0	57.9	56.8
82.5°	37.4	36.9	36.9	38.0	36.9	36.9	37.4	38.0	36.9	36.9	36.9
85°	20.5	21.0	19.9	19.9	19.9	21.0	20.5	19.3	20.5	20.5	19.9
87.5°	7.6	7.0	7.0	7.0	7.0	7.0	7.6	8.2	8.2	8.2	8.8
90°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	9.1	12.1	13.7	11.8
92.5°	34.2	32.8	27.4	21.9	27.4	32.8	34.2	48.4	67.4	76.9	67.5
95°	115.9	111.8	95.3	78.9	95.3	111.8	115.9	152.2	200.6	224.8	189.8
97.5°	267.6	259.8	228.5	197.2	228.5	259.8	267.6	290.6	321.2	336.4	278.2
100°	375.8	366.5	329.2	291.9	329.2	366.5	375.8	374.2	371.9	370.8	306.1
102.5°	468.2	460.2	428.3	396.3	428.3	460.2	468.2	439.0	400.0	380.5	314.9
105°	576.1	571.8	554.6	537.4	554.6	571.8	576.1	510.5	423.1	379.4	315.9
107.5°	632.1	633.2	637.3	641.5	637.3	633.2	632.1	540.7	418.8	357.9	301.9
110°	646.5	651.0	668.9	686.7	668.9	651.0	646.5	544.3	408.0	339.9	289.4



TEST NUMBER: P934232

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	637.4	644.3	671.7	699.2	671.7	644.3	637.4	532.7	393.3	323.5	278.5
115°	606.2	615.7	653.9	692.0	653.9	615.7	606.2	505.4	371.1	303.9	266.0
117.5°	563.2	573.8	616.1	658.4	616.1	573.8	563.2	472.3	351.1	290.5	258.2
120°	534.4	544.7	585.7	626.7	585.7	544.7	534.4	451.3	340.4	285.1	255.6
122.5°	505.4	515.5	556.1	596.6	556.1	515.5	505.4	430.6	330.8	280.9	254.2
125°	467.1	476.5	513.7	551.0	513.7	476.5	467.1	403.6	318.8	276.4	253.1
127.5°	436.4	444.2	475.7	507.2	475.7	444.2	436.4	381.8	309.0	272.7	252.5
130°	417.0	424.2	453.4	482.4	453.4	424.2	417.0	368.4	303.6	271.2	252.8
132.5°	400.4	407.0	433.0	459.0	433.0	407.0	400.4	356.9	298.9	270.0	253.1
135°	377.1	382.6	405.1	427.6	405.1	382.6	377.1	340.6	292.0	267.8	252.8
137.5°	359.8	364.4	382.7	401.1	382.7	364.4	359.8	329.0	287.9	267.5	254.4
140°	346.0	350.3	367.5	384.7	367.5	350.3	346.0	319.4	283.9	266.1	254.6
142.5°	336.3	339.9	354.7	369.6	354.7	339.9	336.3	312.9	281.8	266.1	255.5
145°	321.7	324.5	335.7	346.9	335.7	324.5	321.7	302.6	277.1	264.4	255.6
147.5°	309.5	311.8	321.1	330.3	321.1	311.8	309.5	294.5	274.4	264.4	257.3
150°	302.5	304.4	311.9	319.4	311.9	304.4	302.5	289.8	272.9	264.4	258.2
152.5°	296.9	298.3	304.0	309.7	304.0	298.3	296.9	286.1	271.6	264.4	258.8
155°	290.3	291.3	295.0	298.8	295.0	291.3	290.3	281.7	270.2	264.4	260.1
157.5°	284.5	285.2	287.9	290.5	287.9	285.2	284.5	277.8	268.8	264.4	261.4
160°	281.7	282.0	283.6	285.1	283.6	282.0	281.7	275.9	268.2	264.4	262.0
162.5°	279.0	279.3	280.8	282.2	280.8	279.3	279.0	274.1	267.6	264.4	262.7
165°	274.8	275.1	276.7	278.3	276.7	275.1	274.8	271.3	266.7	264.4	263.6
167.5°	273.0	273.2	273.8	274.4	273.8	273.2	273.0	270.8	267.7	266.1	265.5
170°	273.0	273.0	273.0	273.0	273.0	273.0	273.0	270.8	267.7	266.1	266.1
172.5°	271.6	271.4	270.9	270.3	270.9	271.4	271.6	269.7	267.4	266.1	266.1
175°	269.6	269.6	269.6	269.6	269.6	269.6	269.6	268.5	266.9	266.1	266.5
177.5°	269.3	269.1	268.5	267.8	268.5	269.1	269.3	268.4	267.2	266.6	266.8
180°	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P934232

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	618.2	618.2	618.2	618.2	618.2
2.5°	610.6	613.5	615.2	617.6	623.4
5°	587.1	598.3	601.8	610.6	621.1
7.5°	535.7	569.6	578.9	600.0	616.4
10°	486.0	519.9	536.3	586.0	610.6
12.5°	460.9	480.8	491.8	561.4	602.4
15°	445.1	459.1	467.3	528.7	593.0
17.5°	432.8	442.7	448.6	496.5	580.2
20°	425.2	429.8	435.1	473.2	565.5
22.5°	419.9	417.0	421.1	456.8	545.6
25°	416.4	405.3	409.9	443.9	522.3
27.5°	419.4	394.8	396.5	432.2	497.7
30°	419.9	381.9	382.5	419.9	470.2
32.5°	415.8	368.4	369.0	404.7	439.2
35°	405.8	352.7	352.0	387.2	397.1
37.5°	392.4	335.7	335.7	367.8	350.9
40°	376.0	318.7	320.5	342.7	309.9
42.5°	356.1	300.6	302.9	309.4	279.6
45°	334.5	283.1	284.8	261.4	256.1
47.5°	310.5	264.9	265.5	217.0	248.5
50°	281.9	246.2	243.9	186.0	248.0
52.5°	256.7	225.8	218.7	168.4	225.2
55°	232.1	204.1	188.9	155.0	208.8
57.5°	210.5	176.1	161.4	139.2	205.3
60°	190.6	148.5	137.4	122.3	188.4
62.5°	174.3	128.1	125.7	110.6	170.7
65°	156.7	114.1	113.5	100.6	145.0
67.5°	139.8	104.6	104.1	91.2	110.6
70°	121.6	94.7	93.6	81.3	81.9
72.5°	102.9	83.6	82.5	73.1	67.8
75°	84.2	70.7	70.2	63.7	54.9
77.5°	66.1	56.2	57.3	51.5	40.4
80°	47.4	40.9	42.1	36.9	30.4
82.5°	31.6	26.9	28.1	23.4	20.5
85°	17.5	15.2	15.8	12.3	9.3
87.5°	8.2	7.0	7.0	4.7	3.0
90°	7.9	5.1	4.7	3.2	1.8
92.5°	48.7	34.7	31.7	19.4	7.2
95°	120.0	67.6	62.0	39.6	17.3
97.5°	161.6	74.2	69.2	49.5	29.8
100°	176.8	79.8	75.3	57.4	39.5
102.5°	183.7	85.4	81.2	64.5	47.8
105°	188.9	93.7	90.1	76.0	61.8
107.5°	189.8	105.9	102.6	89.4	76.2
110°	188.4	112.7	109.7	97.8	85.9



TEST NUMBER: P934232

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	<i>188.4</i>	<i>121.0</i>	<i>118.1</i>	<i>106.7</i>	<i>95.4</i>
115°	190.2	133.3	130.7	120.3	109.8
117.5°	193.8	145.4	143.0	133.5	124.0
120°	196.6	152.4	150.2	141.3	132.3
122.5°	200.7	160.7	158.4	149.5	140.4
125°	206.3	171.3	169.2	161.0	152.8
127.5°	211.9	181.6	179.5	171.2	162.8
130°	216.0	188.4	186.1	177.2	168.2
132.5°	219.3	193.9	191.7	182.8	173.8
135°	222.9	200.4	198.4	190.2	182.1
137.5°	228.3	208.7	206.7	198.6	190.5
140°	231.5	214.3	212.4	204.9	197.5
142.5°	234.3	218.4	216.6	209.8	202.9
145°	237.9	224.6	223.2	217.1	211.2
147.5°	243.2	232.6	231.1	225.3	219.5
150°	245.9	236.7	235.4	230.0	224.8
152.5°	247.7	239.4	238.4	234.4	230.4
155°	251.7	245.3	244.6	241.6	238.7
157.5°	255.6	251.2	250.5	247.7	244.8
160°	257.4	253.9	253.4	251.1	249.0
162.5°	259.3	256.8	256.4	254.7	253.1
165°	262.1	261.0	260.7	259.1	257.6
167.5°	264.2	263.3	263.1	262.4	261.7
170°	266.1	266.0	265.8	265.1	264.4
172.5°	266.1	266.1	266.1	266.0	265.8
175°	267.3	267.8	267.8	267.8	267.8
177.5°	267.4	267.8	267.8	267.8	267.8
180°	267.8	267.8	267.8	267.8	267.8



TEST NUMBER: P934232
 CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-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	10.68	11.52	11.65	12.51	13.81	13.47	14.32	14.45	15.31	16.61
	3H	11.15	11.91	12.14	12.90	14.23	14.81	15.56	15.79	16.56	17.88
	4H	11.34	12.06	12.34	13.06	14.39	15.25	15.96	16.24	16.96	18.29
	6H	11.46	12.12	12.47	13.13	14.47	15.52	16.18	16.53	17.19	18.53
	8H	11.46	12.09	12.48	13.11	14.45	15.59	16.22	16.61	17.24	18.58
	12H	11.43	12.03	12.45	13.04	14.41	15.62	16.22	16.64	17.24	18.60
4H	2H	11.70	12.42	12.70	13.42	14.74	13.88	14.60	14.89	15.60	16.93
	3H	12.72	13.32	13.74	14.35	15.69	15.38	15.97	16.39	17.00	18.35
	4H	13.00	13.54	14.02	14.57	15.93	15.90	16.44	16.92	17.46	18.83
	6H	13.12	13.59	14.16	14.64	16.00	16.25	16.72	17.29	17.77	19.13
	8H	13.13	13.57	14.16	14.61	15.98	16.36	16.79	17.39	17.83	19.21
	12H	13.10	13.49	14.15	14.54	15.93	16.41	16.80	17.46	17.85	19.24
8H	4H	13.45	13.88	14.48	14.92	16.30	16.02	16.46	17.06	17.50	18.88
	6H	13.71	14.07	14.76	15.15	16.52	16.45	16.81	17.51	17.89	19.27
	8H	13.75	14.07	14.82	15.13	16.53	16.60	16.91	17.66	17.98	19.37
	12H	13.73	14.01	14.80	15.07	16.51	16.69	16.97	17.76	18.03	19.46
12H	4H	13.45	13.85	14.50	14.90	16.28	15.99	16.38	17.04	17.43	18.82
	6H	13.77	14.09	14.83	15.15	16.54	16.45	16.77	17.51	17.83	19.22
	8H	13.83	14.11	14.90	15.17	16.61	16.60	16.88	17.67	17.94	19.38