

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: P933874

Luminaire Tested: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933874
REPORT IS A COMBINATION OF REPORTS P933674 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

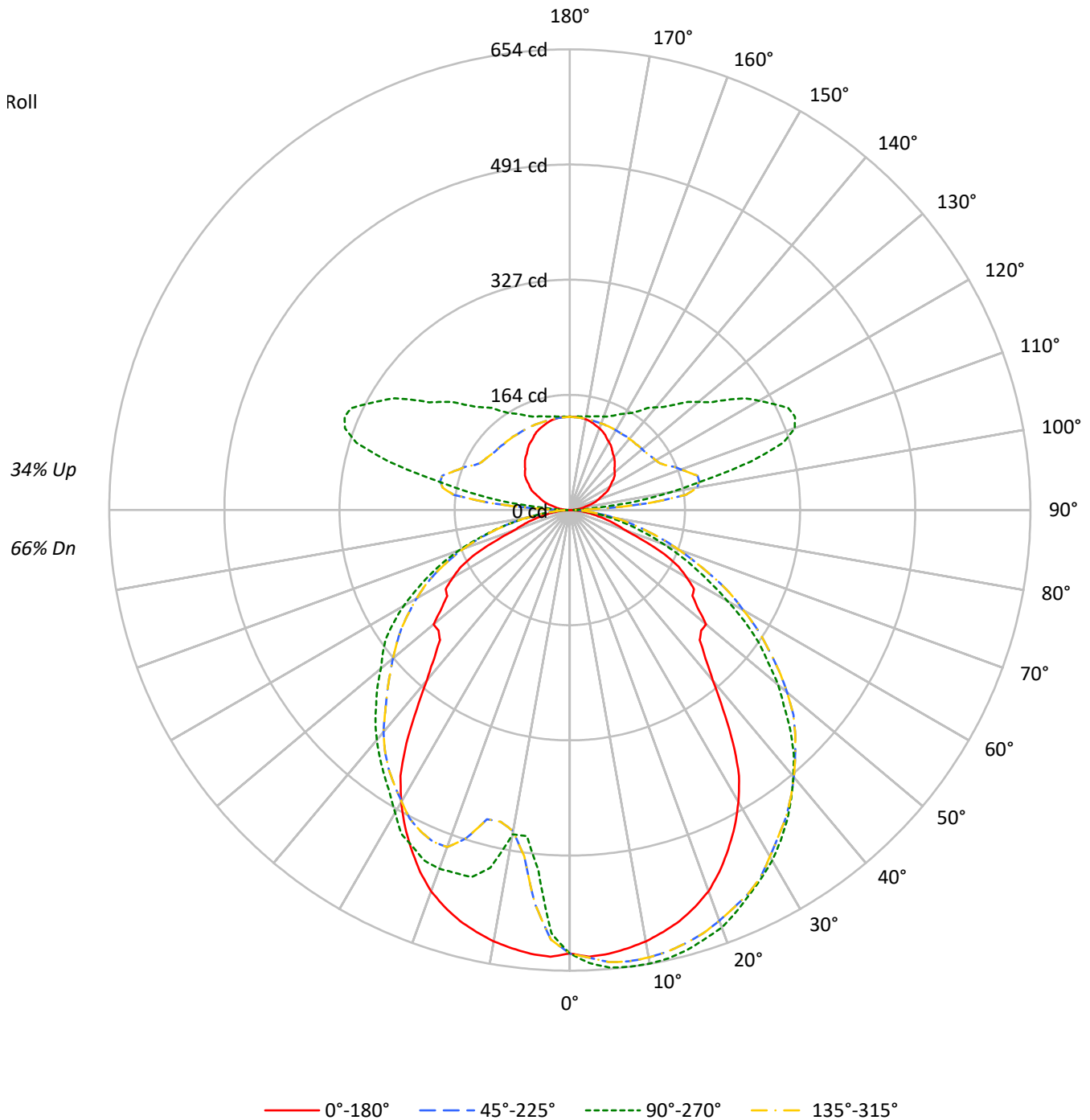
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2491.7 lumens
Efficiency: N/A
Efficacy: 113.3 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-Direct

Input Watts (W): 22
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





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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	70	70	70	66
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	50	50	50	46
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	43	43	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	37	37	37	34
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	32	32	32	29
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	28	28	28	26
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	25	25	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	22	22	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	20	20	20	18
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5841	5841	5841	5841
5°	5878	5896	5878	4636
10°	5833	5808	5833	4152
15°	5762	5683	5762	4744
20°	5636	5534	5636	4754
25°	5382	5316	5382	4654
30°	5057	5135	5057	4433
35°	4502	4907	4502	4190
40°	3744	4638	3744	4006
45°	3339	4324	3339	3795
50°	3540	3948	3540	3582
55°	3321	3545	3321	3460
60°	3412	3009	3412	3170
65°	3078	2488	3078	2781
70°	2117	1982	2117	2332
75°	1833	1466	1833	1756
80°	1451	969	1451	1054
85°	787	513	787	435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5128 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	2.3
10°-20°	161.3	6.5
20°-30°	249.4	10.0
30°-40°	297.7	11.9
40°-50°	299.5	12.0
50°-60°	260.6	10.5
60°-70°	184.7	7.4
70°-80°	97.7	3.9
80°-90°	24.8	1.0
90°-100°	64.6	2.6
100°-110°	169.8	6.8
110°-120°	176.1	7.1
120°-130°	141.2	5.7
130°-140°	110.8	4.4
140°-150°	85.1	3.4
150°-160°	61.3	2.5
160°-170°	37.5	1.5
170°-180°	12.7	0.5
0°-30°	467.5	18.8
0°-40°	765.3	30.7
0°-60°	1325.3	53.2
0°-90°	1632.7	65.5
90°-120°	410.5	16.5
90°-150°	747.7	30.0
90°-180°	859.0	34.5
0°-180°	2491.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	630	630	630	630	630	
5°	632	652	632	513	632	60
15°	604	646	604	540	604	170
25°	532	603	532	528	532	244
35°	404	538	404	459	404	250
45°	261	443	261	389	261	209
55°	213	327	213	319	213	195
65°	148	197	148	220	148	141
75°	56	94	56	112	56	59
85°	10	24	10	20	10	13
90°	1	3	1	3	1	1
95°	8	39	8	39	8	9
105°	31	266	31	266	31	32
115°	54	342	54	342	54	54
125°	76	273	76	273	76	67
135°	90	212	90	212	90	70
145°	104	172	104	172	104	65
155°	118	148	118	148	118	54
165°	127	138	127	138	127	36
175°	132	133	132	133	132	13
180°	132	132	132	132	132	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	634.8	634.8	638.4	639.6	639.6	637.9	636.1	637.9	643.2	645.0	644.3
5°	632.4	637.2	643.8	645.0	646.2	645.6	644.3	645.6	651.5	652.7	653.3
7.5°	627.7	636.6	645.0	646.7	648.5	646.7	646.2	647.4	653.3	654.5	654.5
10°	621.8	634.2	643.8	645.0	646.7	645.0	645.0	647.4	653.3	654.5	655.1
12.5°	613.4	630.7	639.6	640.8	643.2	642.6	642.0	644.3	650.4	651.5	651.5
15°	603.8	624.1	632.4	633.7	637.9	636.6	636.6	639.0	645.6	647.4	646.7
17.5°	590.8	615.8	625.3	627.1	630.1	629.5	630.1	632.4	638.4	639.6	640.2
20°	575.9	604.5	615.8	617.6	620.5	620.5	620.5	623.6	629.5	631.9	631.9
22.5°	555.6	592.6	604.5	605.7	609.3	609.3	610.4	614.6	619.9	620.5	620.5
25°	531.8	579.4	589.5	593.2	596.7	598.5	600.3	602.7	604.5	603.8	604.5
27.5°	506.8	562.8	575.9	578.3	583.1	584.8	587.2	587.8	588.4	590.2	589.0
30°	478.8	539.5	559.2	561.6	569.3	570.5	568.1	569.3	572.3	573.5	574.7
32.5°	447.3	505.0	541.9	547.3	554.5	550.9	550.3	552.1	556.9	556.9	558.0
35°	404.4	478.2	525.9	530.7	536.0	531.8	534.2	534.8	537.8	539.5	538.9
37.5°	357.3	455.0	509.2	512.7	516.9	511.6	515.1	516.9	519.3	518.1	518.1
40°	315.6	418.7	489.6	492.0	495.5	491.3	494.9	496.1	497.3	496.1	495.5
42.5°	284.7	378.7	468.7	471.7	469.3	472.2	473.5	475.9	474.0	471.7	471.7
45°	260.8	368.1	446.0	449.6	446.0	450.8	452.6	452.6	447.3	446.0	445.4
47.5°	253.1	346.6	423.4	423.4	421.6	427.6	430.6	426.4	421.1	419.2	419.2
50°	252.5	322.8	392.5	390.1	398.4	405.5	402.6	398.4	394.3	387.7	387.7
52.5°	229.3	293.6	352.5	361.5	374.6	378.7	374.0	369.9	362.7	359.7	357.3
55°	212.6	263.2	316.2	334.1	347.8	353.2	344.2	340.0	329.4	327.6	326.3
57.5°	209.0	219.2	282.9	305.5	322.2	321.6	316.2	308.5	299.5	297.7	297.2
60°	191.8	158.4	247.1	273.9	291.2	289.4	284.7	277.5	269.2	268.0	266.8
62.5°	173.9	114.9	206.6	237.0	261.4	260.8	256.7	246.0	240.0	237.0	234.6
65°	147.7	96.4	147.1	197.1	232.3	233.5	224.5	216.8	210.2	206.6	206.0
67.5°	112.6	78.6	99.5	164.4	204.2	203.1	191.8	188.2	179.8	178.0	174.5
70°	83.4	52.4	69.1	133.4	176.9	173.9	165.0	160.8	153.1	148.9	146.5
72.5°	69.1	42.3	50.6	103.6	148.9	145.3	137.6	132.8	126.3	122.7	120.3
75°	55.9	44.7	38.7	76.8	120.9	118.5	111.4	106.6	101.2	96.4	97.1
77.5°	41.1	41.6	31.0	56.6	95.9	92.4	88.2	82.2	79.8	75.0	75.0
80°	31.0	32.8	23.3	38.7	69.1	69.1	65.5	61.4	57.2	54.8	54.8
82.5°	20.9	20.9	17.2	24.4	47.1	45.3	42.9	41.6	39.3	38.1	38.1
85°	9.5	11.9	10.7	14.9	25.6	26.8	26.8	25.6	25.0	23.8	24.4
87.5°	3.0	5.3	6.6	8.3	13.1	13.7	14.3	14.3	14.3	14.9	14.9
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5	3.4	3.4
92.5°	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0	16.9	16.2
95°	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3	57.4	55.3
97.5°	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8	132.4	128.5
100°	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1	185.9	181.3
102.5°	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2	231.7	227.7
105°	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6	285.0	282.9
107.5°	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6	312.8	313.4
110°	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3	319.9	322.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6	315.4	318.8
115°	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1	300.0	304.7
117.5°	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7	278.7	284.0
120°	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3	264.4	269.5
122.5°	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0	250.1	255.0
125°	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7	231.1	235.8
127.5°	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0	216.0	219.9
130°	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3	206.4	209.9
132.5°	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6	198.2	201.4
135°	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5	186.6	189.3
137.5°	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8	178.0	180.4
140°	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1	171.2	173.3
142.5°	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9	166.4	168.3
145°	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7	159.2	160.6
147.5°	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7	153.2	154.3
150°	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4	149.7	150.6
152.5°	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5	147.0	147.7
155°	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4	143.7	144.1
157.5°	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5	140.7	141.1
160°	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5	139.3	139.5
162.5°	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6	138.0	138.2
165°	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3	136.0	136.1
167.5°	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9	135.1	135.2
170°	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9	135.1	135.1
172.5°	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5	134.4	134.3
175°	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8	133.4	133.4
177.5°	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8	133.2	133.1
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	645.6	643.8	645.6	644.3	645.0	643.2	637.9	636.1	637.9	639.6	639.6
5°	653.3	652.1	653.3	653.3	652.7	651.5	645.6	644.3	645.6	646.2	645.0
7.5°	655.7	653.9	655.7	654.5	654.5	653.3	647.4	646.2	646.7	648.5	646.7
10°	655.7	653.9	655.7	655.1	654.5	653.3	647.4	645.0	645.0	646.7	645.0
12.5°	652.7	651.5	652.7	651.5	651.5	650.4	644.3	642.0	642.6	643.2	640.8
15°	648.0	646.2	648.0	646.7	647.4	645.6	639.0	636.6	636.6	637.9	633.7
17.5°	640.8	638.4	640.8	640.2	639.6	638.4	632.4	630.1	629.5	630.1	627.1
20°	632.4	630.7	632.4	631.9	631.9	629.5	623.6	620.5	620.5	620.5	617.6
22.5°	619.4	617.6	619.4	620.5	620.5	619.9	614.6	610.4	609.3	609.3	605.7
25°	604.5	602.7	604.5	604.5	603.8	604.5	602.7	600.3	598.5	596.7	593.2
27.5°	590.2	589.0	590.2	589.0	590.2	588.4	587.8	587.2	584.8	583.1	578.3
30°	575.9	574.7	575.9	574.7	573.5	572.3	569.3	568.1	570.5	569.3	561.6
32.5°	558.0	556.9	558.0	558.0	556.9	556.9	552.1	550.3	550.9	554.5	547.3
35°	539.5	537.8	539.5	538.9	539.5	537.8	534.8	534.2	531.8	536.0	530.7
37.5°	518.1	516.4	518.1	518.1	518.1	519.3	516.9	515.1	511.6	516.9	512.7
40°	496.1	493.7	496.1	495.5	496.1	497.3	496.1	494.9	491.3	495.5	492.0
42.5°	471.1	470.5	471.1	471.7	471.7	474.0	475.9	473.5	472.2	469.3	471.7
45°	444.3	443.1	444.3	445.4	446.0	447.3	452.6	452.6	450.8	446.0	449.6
47.5°	415.7	412.7	415.7	419.2	419.2	421.1	426.4	430.6	427.6	421.6	423.4
50°	385.3	385.9	385.3	387.7	387.7	394.3	398.4	402.6	405.5	398.4	390.1
52.5°	355.6	354.9	355.6	357.3	359.7	362.7	369.9	374.0	378.7	374.6	361.5
55°	325.7	327.0	325.7	326.3	327.6	329.4	340.0	344.2	353.2	347.8	334.1
57.5°	296.0	294.2	296.0	297.2	297.7	299.5	308.5	316.2	321.6	322.2	305.5
60°	261.4	259.0	261.4	266.8	268.0	269.2	277.5	284.7	289.4	291.2	273.9
62.5°	231.1	226.9	231.1	234.6	237.0	240.0	246.0	256.7	260.8	261.4	237.0
65°	198.9	197.1	198.9	206.0	206.6	210.2	216.8	224.5	233.5	232.3	197.1
67.5°	169.7	169.7	169.7	174.5	178.0	179.8	188.2	191.8	203.1	204.2	164.4
70°	143.0	142.3	143.0	146.5	148.9	153.1	160.8	165.0	173.9	176.9	133.4
72.5°	117.3	116.7	117.3	120.3	122.7	126.3	132.8	137.6	145.3	148.9	103.6
75°	94.7	93.5	94.7	97.1	96.4	101.2	106.6	111.4	118.5	120.9	76.8
77.5°	72.6	72.6	72.6	75.0	75.0	79.8	82.2	88.2	92.4	95.9	56.6
80°	54.2	53.6	54.2	54.8	54.8	57.2	61.4	65.5	69.1	69.1	38.7
82.5°	38.1	36.9	38.1	38.1	38.1	39.3	41.6	42.9	45.3	47.1	24.4
85°	23.8	23.8	23.8	24.4	23.8	25.0	25.6	26.8	26.8	25.6	14.9
87.5°	15.5	14.9	15.5	14.9	14.9	14.3	14.3	14.3	13.7	13.1	8.3
90°	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8	3.9	2.5
92.5°	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5	24.2	17.1
95°	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0	59.4	33.5
97.5°	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6	80.0	36.8
100°	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5	87.5	39.5
102.5°	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8	90.9	42.3
105°	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3	93.5	46.4
107.5°	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4	94.0	52.4
110°	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2	93.2	55.8



TEST NUMBER: P933874

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8	93.2	59.9
115°	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7	94.1	66.0
117.5°	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8	95.9	71.9
120°	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5	97.2	75.4
122.5°	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7	99.3	79.5
125°	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2	102.1	84.8
127.5°	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9	104.9	89.9
130°	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1	106.9	93.2
132.5°	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2	108.5	96.0
135°	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1	110.3	99.2
137.5°	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8	113.0	103.3
140°	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0	114.6	106.0
142.5°	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5	116.0	108.1
145°	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5	117.7	111.2
147.5°	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3	120.3	115.1
150°	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8	121.7	117.1
152.5°	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0	122.5	118.5
155°	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7	124.5	121.4
157.5°	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4	126.5	124.3
160°	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6	127.3	125.7
162.5°	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0	128.3	127.1
165°	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4	129.6	129.1
167.5°	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3	130.7	130.3
170°	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7	131.6	131.6
172.5°	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9	132.2	132.5
177.5°	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0	132.3	132.5
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P933874

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	638.4	634.8	634.8	628.9	626.5	624.7	621.8	612.8	610.4	608.0	611.7
5°	643.8	637.2	632.4	621.8	612.8	609.3	597.9	576.5	562.2	551.4	545.5
7.5°	645.0	636.6	627.7	611.0	589.5	580.0	545.5	506.2	495.5	486.0	480.0
10°	643.8	634.2	621.8	596.7	546.1	529.4	494.9	469.3	462.7	461.0	462.7
12.5°	639.6	630.7	613.4	571.7	500.8	489.6	469.3	454.4	453.2	456.2	472.2
15°	632.4	624.1	603.8	538.4	475.9	467.5	453.2	447.8	454.4	475.3	523.5
17.5°	625.3	615.8	590.8	505.6	456.8	450.8	440.7	451.5	488.3	516.4	532.4
20°	615.8	604.5	575.9	481.8	443.1	437.7	433.0	481.2	509.2	519.3	528.3
22.5°	604.5	592.6	555.6	465.1	428.8	424.6	427.6	497.9	509.2	516.4	524.1
25°	589.5	579.4	531.8	452.0	417.4	412.7	424.0	496.1	502.6	504.4	519.9
27.5°	575.9	562.8	506.8	440.1	403.8	402.0	427.0	488.3	493.1	494.9	511.6
30°	559.2	539.5	478.8	427.6	389.5	388.9	427.6	478.8	477.7	482.4	499.1
32.5°	541.9	505.0	447.3	412.1	375.8	375.2	423.4	464.5	463.4	469.8	482.4
35°	525.9	478.2	404.4	394.3	358.5	359.1	413.3	447.8	448.4	454.4	462.1
37.5°	509.2	455.0	357.3	374.6	341.9	341.9	399.6	432.4	431.2	433.0	443.6
40°	489.6	418.7	315.6	349.0	326.3	324.6	382.9	415.7	411.5	411.0	425.8
42.5°	468.7	378.7	284.7	315.1	308.5	306.1	362.7	395.4	387.7	389.5	408.6
45°	446.0	368.1	260.8	266.2	290.0	288.2	340.6	372.2	366.8	371.6	391.3
47.5°	423.4	346.6	253.1	220.9	270.4	269.8	316.2	349.6	346.6	351.4	372.2
50°	392.5	322.8	252.5	189.4	248.4	250.7	287.1	327.6	327.6	331.8	353.8
52.5°	352.5	293.6	229.3	171.5	222.7	229.9	261.4	308.5	309.6	313.8	333.5
55°	316.2	263.2	212.6	157.8	192.3	207.9	236.4	288.9	291.2	295.3	313.3
57.5°	282.9	219.2	209.0	141.7	164.4	179.3	214.4	269.8	270.9	274.6	291.8
60°	247.1	158.4	191.8	124.5	139.9	151.2	194.1	247.1	251.3	253.7	268.6
62.5°	206.6	114.9	173.9	112.6	128.0	130.4	177.5	225.7	231.1	232.8	241.8
65°	147.1	96.4	147.7	102.5	115.5	116.2	159.6	203.7	208.4	211.4	218.0
67.5°	99.5	78.6	112.6	92.9	106.0	106.6	142.3	178.0	184.6	187.0	191.2
70°	69.1	52.4	83.4	82.8	95.3	96.4	123.9	154.9	160.8	162.6	165.0
72.5°	50.6	42.3	69.1	74.4	84.0	85.2	104.8	128.7	134.6	136.4	137.6
75°	38.7	44.7	55.9	64.9	71.5	72.0	85.8	104.8	109.0	110.2	110.7
77.5°	31.0	41.6	41.1	52.4	58.3	57.2	67.3	81.0	84.5	84.5	84.5
80°	23.3	32.8	31.0	37.6	42.9	41.6	48.2	57.8	59.0	60.1	59.6
82.5°	17.2	20.9	20.9	23.8	28.6	27.4	32.1	37.6	37.6	37.6	38.7
85°	10.7	11.9	9.5	12.5	16.1	15.5	17.8	20.2	20.9	20.9	19.6
87.5°	6.6	5.3	3.0	4.8	7.1	7.1	8.3	9.0	8.3	8.3	8.3
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5
92.5°	15.6	9.6	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0
95°	30.7	19.6	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3
97.5°	34.3	24.5	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8
100°	37.3	28.4	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1
102.5°	40.2	31.9	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2
105°	44.6	37.7	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6
107.5°	50.8	44.2	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6
110°	54.3	48.4	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3



TEST NUMBER: P933874

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.4	52.8	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6
115°	64.6	59.5	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1
117.5°	70.8	66.1	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7
120°	74.3	69.9	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3
122.5°	78.3	73.9	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0
125°	83.7	79.7	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7
127.5°	88.8	84.7	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0
130°	92.1	87.6	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3
132.5°	94.9	90.5	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6
135°	98.2	94.1	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5
137.5°	102.3	98.3	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8
140°	105.1	101.4	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1
142.5°	107.2	103.8	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9
145°	110.5	107.4	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7
147.5°	114.4	111.4	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7
150°	116.5	113.8	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4
152.5°	117.9	116.0	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5
155°	121.0	119.5	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4
157.5°	124.0	122.5	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5
160°	125.4	124.2	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5
162.5°	126.9	126.0	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6
165°	128.9	128.1	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3
167.5°	130.2	129.8	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9
170°	131.5	131.2	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9
172.5°	131.7	131.6	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5
175°	132.5	132.5	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8
177.5°	132.5	132.5	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P933874

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5	629.5
2.5°	607.5	605.7	608.0	601.5	608.0	605.7	607.5	611.7	608.0	610.4	612.8
5°	533.0	530.0	520.5	512.7	520.5	530.0	533.0	545.5	551.4	562.2	576.5
7.5°	476.4	474.0	471.7	466.9	471.7	474.0	476.4	480.0	486.0	495.5	506.2
10°	463.9	464.5	468.1	467.5	468.1	464.5	463.9	462.7	461.0	462.7	469.3
12.5°	496.1	501.5	521.1	519.9	521.1	501.5	496.1	472.2	456.2	453.2	454.4
15°	533.0	534.8	538.9	539.5	538.9	534.8	533.0	523.5	475.3	454.4	447.8
17.5°	536.6	537.2	540.2	540.2	540.2	537.2	536.6	532.4	516.4	488.3	451.5
20°	533.6	534.8	540.8	541.9	540.8	534.8	533.6	528.3	519.3	509.2	481.2
22.5°	532.4	534.8	539.5	538.9	539.5	534.8	532.4	524.1	516.4	509.2	497.9
25°	526.5	526.5	527.0	527.6	527.0	526.5	526.5	519.9	504.4	502.6	496.1
27.5°	514.0	515.1	518.7	518.1	518.7	515.1	514.0	511.6	494.9	493.1	488.3
30°	502.6	501.5	498.4	496.1	498.4	501.5	502.6	499.1	482.4	477.7	478.8
32.5°	483.6	480.6	477.7	475.9	477.7	480.6	483.6	482.4	469.8	463.4	464.5
35°	461.0	461.6	461.0	459.2	461.0	461.6	461.0	462.1	454.4	448.4	447.8
37.5°	444.9	446.0	445.4	443.1	445.4	446.0	444.9	443.6	433.0	431.2	432.4
40°	428.2	428.8	428.2	426.4	428.2	428.8	428.2	425.8	411.0	411.5	415.7
42.5°	412.1	411.5	409.7	408.6	409.7	411.5	412.1	408.6	389.5	387.7	395.4
45°	393.7	394.3	390.6	388.9	390.6	394.3	393.7	391.3	371.6	366.8	372.2
47.5°	375.2	375.2	372.2	370.4	372.2	375.2	375.2	372.2	351.4	346.6	349.6
50°	355.6	354.9	350.8	350.1	350.8	354.9	355.6	353.8	331.8	327.6	327.6
52.5°	332.9	332.9	333.5	334.7	333.5	332.9	332.9	333.5	313.8	309.6	308.5
55°	313.3	313.8	318.0	319.2	318.0	313.8	313.3	313.3	295.3	291.2	288.9
57.5°	293.0	293.0	296.0	296.0	296.0	293.0	293.0	291.8	274.6	270.9	269.8
60°	269.8	270.9	273.3	272.8	273.3	270.9	269.8	268.6	253.7	251.3	247.1
62.5°	245.4	246.6	247.1	246.0	247.1	246.6	245.4	241.8	232.8	231.1	225.7
65°	219.8	220.9	221.6	220.3	221.6	220.9	219.8	218.0	211.4	208.4	203.7
67.5°	193.6	193.0	192.3	194.7	192.3	193.0	193.6	191.2	187.0	184.6	178.0
70°	166.8	166.8	166.1	167.4	166.1	166.8	166.8	165.0	162.6	160.8	154.9
72.5°	138.2	137.6	139.9	138.2	139.9	137.6	138.2	137.6	136.4	134.6	128.7
75°	110.2	111.4	110.2	112.0	110.2	111.4	110.2	110.7	110.2	109.0	104.8
77.5°	84.0	85.2	84.0	84.0	84.0	85.2	84.0	84.5	84.5	84.5	81.0
80°	59.6	59.0	59.0	58.3	59.0	59.0	59.6	59.6	60.1	59.0	57.8
82.5°	38.1	37.6	37.6	38.7	37.6	37.6	38.1	38.7	37.6	37.6	37.6
85°	20.9	21.4	20.2	20.2	20.2	21.4	20.9	19.6	20.9	20.9	20.2
87.5°	7.7	7.1	7.1	7.1	7.1	7.1	7.7	8.3	8.3	8.3	9.0
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8
92.5°	16.9	16.2	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5
95°	57.4	55.3	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0
97.5°	132.4	128.5	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6
100°	185.9	181.3	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5
102.5°	231.7	227.7	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8
105°	285.0	282.9	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3
107.5°	312.8	313.4	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4
110°	319.9	322.2	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2



TEST NUMBER: P933874

CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	315.4	318.8	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8
115°	300.0	304.7	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7
117.5°	278.7	284.0	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8
120°	264.4	269.5	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5
122.5°	250.1	255.0	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7
125°	231.1	235.8	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2
127.5°	216.0	219.9	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9
130°	206.4	209.9	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1
132.5°	198.2	201.4	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2
135°	186.6	189.3	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1
137.5°	178.0	180.4	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8
140°	171.2	173.3	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0
142.5°	166.4	168.3	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5
145°	159.2	160.6	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5
147.5°	153.2	154.3	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3
150°	149.7	150.6	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8
152.5°	147.0	147.7	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0
155°	143.7	144.1	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7
157.5°	140.7	141.1	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4
160°	139.3	139.5	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6
162.5°	138.0	138.2	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0
165°	136.0	136.1	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4
167.5°	135.1	135.2	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3
170°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7
172.5°	134.4	134.3	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9
177.5°	133.2	133.1	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	629.5	629.5	629.5	629.5	629.5
2.5°	621.8	624.7	626.5	628.9	634.8
5°	597.9	609.3	612.8	621.8	632.4
7.5°	545.5	580.0	589.5	611.0	627.7
10°	494.9	529.4	546.1	596.7	621.8
12.5°	469.3	489.6	500.8	571.7	613.4
15°	453.2	467.5	475.9	538.4	603.8
17.5°	440.7	450.8	456.8	505.6	590.8
20°	433.0	437.7	443.1	481.8	575.9
22.5°	427.6	424.6	428.8	465.1	555.6
25°	424.0	412.7	417.4	452.0	531.8
27.5°	427.0	402.0	403.8	440.1	506.8
30°	427.6	388.9	389.5	427.6	478.8
32.5°	423.4	375.2	375.8	412.1	447.3
35°	413.3	359.1	358.5	394.3	404.4
37.5°	399.6	341.9	341.9	374.6	357.3
40°	382.9	324.6	326.3	349.0	315.6
42.5°	362.7	306.1	308.5	315.1	284.7
45°	340.6	288.2	290.0	266.2	260.8
47.5°	316.2	269.8	270.4	220.9	253.1
50°	287.1	250.7	248.4	189.4	252.5
52.5°	261.4	229.9	222.7	171.5	229.3
55°	236.4	207.9	192.3	157.8	212.6
57.5°	214.4	179.3	164.4	141.7	209.0
60°	194.1	151.2	139.9	124.5	191.8
62.5°	177.5	130.4	128.0	112.6	173.9
65°	159.6	116.2	115.5	102.5	147.7
67.5°	142.3	106.6	106.0	92.9	112.6
70°	123.9	96.4	95.3	82.8	83.4
72.5°	104.8	85.2	84.0	74.4	69.1
75°	85.8	72.0	71.5	64.9	55.9
77.5°	67.3	57.2	58.3	52.4	41.1
80°	48.2	41.6	42.9	37.6	31.0
82.5°	32.1	27.4	28.6	23.8	20.9
85°	17.8	15.5	16.1	12.5	9.5
87.5°	8.3	7.1	7.1	4.8	3.0
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.2	17.1	15.6	9.6	3.6
95°	59.4	33.5	30.7	19.6	8.5
97.5°	80.0	36.8	34.3	24.5	14.7
100°	87.5	39.5	37.3	28.4	19.5
102.5°	90.9	42.3	40.2	31.9	23.6
105°	93.5	46.4	44.6	37.7	30.6
107.5°	94.0	52.4	50.8	44.2	37.7
110°	93.2	55.8	54.3	48.4	42.5



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CATALOG NUMBER: SQ4-FA-025U-050D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	93.2	59.9	58.4	52.8	47.2
115°	94.1	66.0	64.6	59.5	54.3
117.5°	95.9	71.9	70.8	66.1	61.4
120°	97.2	75.4	74.3	69.9	65.4
122.5°	99.3	79.5	78.3	73.9	69.4
125°	102.1	84.8	83.7	79.7	75.6
127.5°	104.9	89.9	88.8	84.7	80.5
130°	106.9	93.2	92.1	87.6	83.2
132.5°	108.5	96.0	94.9	90.5	86.0
135°	110.3	99.2	98.2	94.1	90.1
137.5°	113.0	103.3	102.3	98.3	94.3
140°	114.6	106.0	105.1	101.4	97.8
142.5°	116.0	108.1	107.2	103.8	100.4
145°	117.7	111.2	110.5	107.4	104.5
147.5°	120.3	115.1	114.4	111.4	108.6
150°	121.7	117.1	116.5	113.8	111.3
152.5°	122.5	118.5	117.9	116.0	114.0
155°	124.5	121.4	121.0	119.5	118.1
157.5°	126.5	124.3	124.0	122.5	121.1
160°	127.3	125.7	125.4	124.2	123.2
162.5°	128.3	127.1	126.9	126.0	125.2
165°	129.6	129.1	128.9	128.1	127.4
167.5°	130.7	130.3	130.2	129.8	129.5
170°	131.6	131.6	131.5	131.2	130.8
172.5°	131.7	131.7	131.7	131.6	131.5
175°	132.2	132.5	132.5	132.5	132.5
177.5°	132.3	132.5	132.5	132.5	132.5
180°	132.5	132.5	132.5	132.5	132.5



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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	12.25	13.27	13.06	14.10	15.13	15.04	16.06	15.86	16.90	17.93
	3H	12.74	13.65	13.56	14.50	15.55	16.39	17.31	17.22	18.15	19.21
	4H	12.94	13.80	13.78	14.65	15.72	16.84	17.70	17.68	18.55	19.62
	6H	13.06	13.86	13.92	14.72	15.80	17.12	17.92	17.98	18.78	19.86
	8H	13.07	13.83	13.93	14.70	15.79	17.20	17.96	18.06	18.83	19.92
	12H	13.05	13.77	13.91	14.64	15.75	17.24	17.96	18.11	18.83	19.94
4H	2H	13.29	14.16	14.14	15.01	16.08	15.48	16.34	16.32	17.19	18.26
	3H	14.33	15.05	15.19	15.94	17.02	16.99	17.71	17.84	18.59	19.68
	4H	14.62	15.27	15.49	16.15	17.26	17.51	18.17	18.38	19.05	20.16
	6H	14.75	15.32	15.64	16.22	17.34	17.88	18.45	18.77	19.35	20.47
	8H	14.76	15.29	15.65	16.19	17.32	17.99	18.51	18.87	19.41	20.54
	12H	14.73	15.21	15.64	16.13	17.26	18.04	18.52	18.95	19.44	20.57
8H	4H	15.08	15.61	15.97	16.51	17.63	17.65	18.18	18.54	19.08	20.21
	6H	15.35	15.78	16.26	16.72	17.85	18.09	18.52	19.00	19.47	20.59
	8H	15.39	15.78	16.32	16.71	17.86	18.24	18.62	19.16	19.56	20.70
	12H	15.38	15.72	16.31	16.65	17.85	18.33	18.68	19.26	19.60	20.80
12H	4H	15.09	15.57	16.00	16.49	17.62	17.62	18.10	18.53	19.02	20.15
	6H	15.41	15.79	16.33	16.73	17.87	18.09	18.47	19.01	19.41	20.55
	8H	15.48	15.82	16.41	16.75	17.95	18.25	18.59	19.18	19.52	20.71