

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: P934251

Luminaire Tested: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934251
REPORT IS A COMBINATION OF REPORTS P933691 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

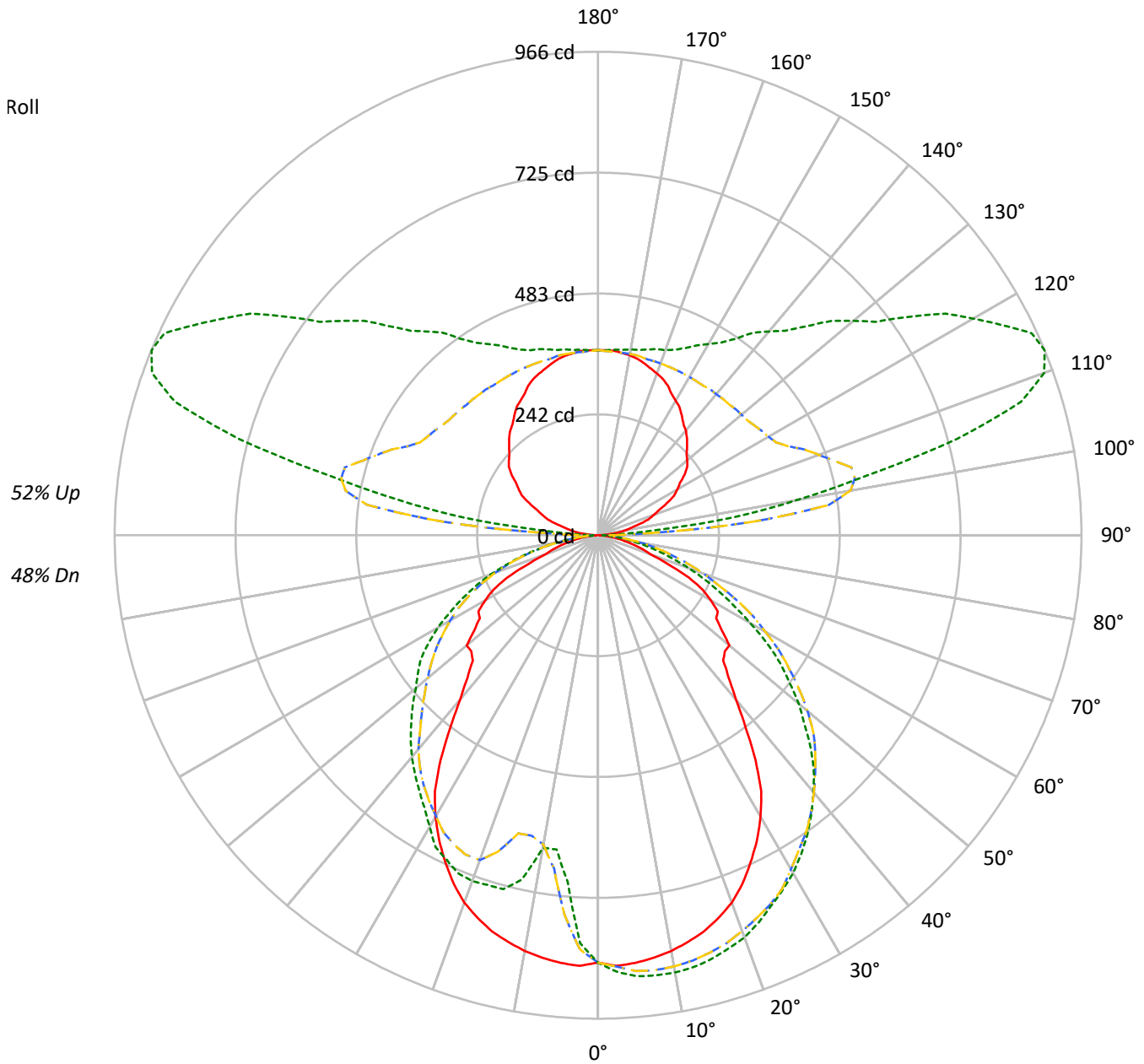
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4613.2 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.6
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: P934251
CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

Luminous Intensity Polar Plot



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



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

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°	5282	5282	5282	5282
5°	5319	5332	5319	4192
10°	5282	5252	5282	3755
15°	5223	5139	5223	4291
20°	5112	5003	5112	4300
25°	4885	4807	4885	4208
30°	4595	4644	4595	4009
35°	4094	4437	4094	3789
40°	3410	4194	3410	3623
45°	3044	3910	3044	3432
50°	3232	3571	3232	3240
55°	3038	3205	3038	3129
60°	3128	2722	3128	2865
65°	2831	2250	2831	2515
70°	1956	1793	1956	2108
75°	1710	1325	1710	1587
80°	1367	876	1367	955
85°	769	464	769	395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4670 cd/sqm



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.7
10°-20°	218.8	4.7
20°-30°	338.3	7.3
30°-40°	403.8	8.8
40°-50°	406.2	8.8
50°-60°	353.4	7.7
60°-70°	250.6	5.4
70°-80°	132.6	2.9
80°-90°	34.4	0.7
90°-100°	180.3	3.9
100°-110°	474.0	10.3
110°-120°	491.5	10.7
120°-130°	394.3	8.5
130°-140°	309.4	6.7
140°-150°	237.4	5.1
150°-160°	171.0	3.7
160°-170°	104.6	2.3
170°-180°	35.3	0.8
0°-30°	634.2	13.7
0°-40°	1038.0	22.5
0°-60°	1797.7	39.0
0°-90°	2215.3	48.0
90°-120°	1145.9	24.8
90°-150°	2087.0	45.2
90°-180°	2398.0	52.0
0°-180°	4613.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	854	854	854	854	854	
5°	858	884	858	696	858	81
15°	819	876	819	732	819	230
25°	721	818	721	716	721	331
35°	548	729	548	623	548	339
45°	354	601	354	528	354	283
55°	288	444	288	433	288	265
65°	200	267	200	299	200	191
75°	76	127	76	152	76	80
85°	13	32	13	28	13	17
90°	2	9	2	9	2	3
95°	24	109	24	109	24	26
105°	85	742	85	742	85	91
115°	152	956	152	956	152	150
125°	211	761	211	761	211	187
135°	252	591	252	591	252	195
145°	292	479	292	479	292	183
155°	330	413	330	413	330	151
165°	356	384	356	384	356	100
175°	370	372	370	372	370	35
180°	370	370	370	370	370	



TEST NUMBER: P934251
 CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	861.1	861.1	866.0	867.6	867.6	865.2	862.7	865.2	872.5	874.9	874.1
5°	857.8	864.3	873.3	874.9	876.5	875.7	874.1	875.7	883.7	885.4	886.2
7.5°	851.4	863.5	874.9	877.3	879.7	877.3	876.5	878.1	886.2	887.8	887.8
10°	843.3	860.3	873.3	874.9	877.3	874.9	874.9	878.1	886.2	887.8	888.6
12.5°	832.1	855.4	867.6	869.2	872.5	871.7	870.8	874.1	882.1	883.7	883.7
15°	819.1	846.6	857.8	859.5	865.2	863.5	863.5	866.8	875.7	878.1	877.3
17.5°	801.3	835.3	848.2	850.6	854.6	853.8	854.6	857.8	866.0	867.6	868.4
20°	781.2	819.9	835.3	837.7	841.7	841.7	841.7	845.8	853.8	857.0	857.0
22.5°	753.7	803.7	819.9	821.5	826.4	826.4	828.0	833.7	840.9	841.7	841.7
25°	721.3	786.0	799.7	804.6	809.4	811.8	814.2	817.5	819.9	819.1	819.9
27.5°	687.4	763.3	781.2	784.4	790.9	793.3	796.5	797.3	798.1	800.5	798.9
30°	649.5	731.9	758.5	761.7	772.2	773.9	770.6	772.2	776.3	777.9	779.6
32.5°	606.7	685.0	735.1	742.4	752.1	747.2	746.4	748.8	755.3	755.3	756.9
35°	548.5	648.7	713.3	719.7	727.0	721.3	724.6	725.4	729.4	731.9	731.1
37.5°	484.7	617.2	690.7	695.5	701.2	693.9	698.8	701.2	704.4	702.8	702.8
40°	428.2	567.9	664.0	667.2	672.1	666.4	671.3	672.9	674.5	672.9	672.1
42.5°	386.2	513.8	635.7	639.8	636.5	640.6	642.2	645.5	643.0	639.8	639.8
45°	353.8	499.2	605.1	609.9	605.1	611.5	613.9	613.9	606.7	605.1	604.3
47.5°	343.3	470.2	574.4	574.4	571.9	580.0	584.0	578.4	571.1	568.7	568.7
50°	342.5	437.8	532.3	529.1	540.4	550.1	546.0	540.4	534.8	525.9	525.9
52.5°	311.0	398.2	478.2	490.3	508.1	513.8	507.3	501.6	491.9	487.9	484.7
55°	288.4	357.0	429.0	453.2	471.8	479.0	466.9	461.2	446.7	444.3	442.7
57.5°	283.5	297.3	383.7	414.4	437.0	436.2	429.0	418.4	406.3	403.9	403.1
60°	260.1	214.9	335.3	371.6	395.0	392.6	386.2	376.4	365.1	363.5	361.9
62.5°	235.8	155.9	280.3	321.5	354.6	353.8	348.2	333.6	325.5	321.5	318.3
65°	200.3	130.9	199.5	267.4	315.0	316.6	304.6	294.1	285.1	280.3	279.5
67.5°	152.7	106.6	134.9	223.0	277.1	275.4	260.1	255.3	244.0	241.5	236.7
70°	113.1	71.1	93.7	180.9	239.9	235.8	223.8	218.1	207.6	202.0	198.7
72.5°	93.7	57.3	68.7	140.5	202.0	197.1	186.6	180.1	171.3	166.4	163.2
75°	76.0	60.5	52.5	104.2	164.0	160.8	151.0	144.6	137.3	130.9	131.7
77.5°	55.7	56.5	42.0	76.8	130.1	125.2	119.6	111.5	108.2	101.8	101.8
80°	42.0	44.4	31.5	52.5	93.7	93.7	88.9	83.2	77.6	74.4	74.4
82.5°	28.3	28.3	23.4	33.1	63.8	61.4	58.1	56.5	53.3	51.7	51.7
85°	12.9	16.1	14.5	20.2	34.8	36.4	36.4	34.8	34.0	32.3	33.1
87.5°	4.0	7.3	8.9	11.3	17.7	18.5	19.4	19.4	19.4	20.2	20.2
90°	2.5	4.5	6.5	7.0	10.9	16.2	18.9	16.8	12.5	9.4	9.4
92.5°	10.0	26.8	43.7	47.9	67.4	93.3	106.2	93.1	66.8	47.1	45.3
95°	23.8	54.7	85.6	93.3	165.7	262.3	310.6	277.2	210.3	160.1	154.4
97.5°	41.2	68.5	95.7	102.5	223.3	384.3	464.8	443.7	401.3	369.6	358.8
100°	54.6	79.3	104.1	110.3	244.2	422.9	512.2	513.7	516.8	519.1	506.3
102.5°	66.0	89.1	112.2	118.0	253.8	435.0	525.6	552.5	606.3	646.7	635.7
105°	85.4	105.0	124.5	129.4	260.9	436.4	524.0	584.4	705.1	795.7	789.8
107.5°	105.3	123.5	141.6	146.2	262.3	416.9	494.2	578.4	746.8	873.1	874.5
110°	118.7	135.1	151.5	155.6	260.3	399.7	469.4	563.5	751.8	893.0	899.2



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	131.9	147.5	163.2	167.1	260.3	384.7	446.9	543.2	735.9	880.3	889.8
115°	151.7	166.1	180.6	184.2	262.7	367.5	419.8	512.6	698.2	837.4	850.5
117.5°	171.3	184.4	197.5	200.8	267.6	356.7	401.2	484.9	652.4	778.0	792.6
120°	182.7	195.0	207.4	210.5	271.6	353.0	393.7	470.2	623.3	738.0	752.3
122.5°	193.9	206.4	218.8	221.9	277.3	351.1	388.0	456.9	594.8	698.1	712.1
125°	211.0	222.4	233.8	236.6	285.0	349.5	381.8	440.4	557.4	645.2	658.1
127.5°	224.9	236.4	247.9	250.8	292.7	348.7	376.6	426.9	527.3	602.7	613.6
130°	232.4	244.8	257.1	260.2	298.3	349.1	374.6	419.3	508.9	576.0	586.0
132.5°	240.1	252.5	264.8	267.9	302.9	349.5	372.9	413.0	493.0	553.1	562.1
135°	251.5	262.7	274.0	276.8	307.9	349.2	369.9	403.5	470.6	520.8	528.6
137.5°	263.1	274.3	285.4	288.2	315.3	351.3	369.4	397.7	454.4	497.0	503.3
140°	272.9	283.1	293.3	295.9	319.8	351.7	367.7	392.2	441.2	477.9	483.8
142.5°	280.2	289.7	299.2	301.6	323.6	353.0	367.7	389.2	432.2	464.5	469.6
145°	291.7	300.0	308.3	310.4	328.7	353.0	365.2	382.8	418.0	444.4	448.2
147.5°	303.1	311.2	319.3	321.3	335.9	355.4	365.2	379.0	406.7	427.5	430.7
150°	310.6	317.9	325.1	327.0	339.7	356.7	365.2	376.9	400.3	417.8	420.4
152.5°	318.2	323.8	329.3	330.7	342.2	357.5	365.2	375.2	395.2	410.1	412.0
155°	329.7	333.8	337.8	338.9	347.6	359.3	365.2	373.2	389.1	400.9	402.2
157.5°	338.1	342.1	346.1	347.1	353.1	361.2	365.2	371.4	383.8	393.0	393.9
160°	343.8	346.9	349.9	350.8	355.6	362.0	365.2	370.5	381.1	389.1	389.5
162.5°	349.5	351.9	354.2	354.8	358.2	362.9	365.2	369.7	378.6	385.3	385.8
165°	355.7	357.8	359.9	360.5	362.1	364.2	365.2	368.4	374.8	379.6	380.1
167.5°	361.4	362.4	363.4	363.7	365.0	366.8	367.7	369.8	374.0	377.1	377.3
170°	365.2	366.2	367.2	367.5	367.5	367.6	367.7	369.8	374.0	377.1	377.1
172.5°	367.2	367.5	367.6	367.7	367.7	367.7	367.7	369.3	372.6	375.1	374.9
175°	369.9	369.9	369.9	369.9	369.2	368.2	367.7	368.7	370.8	372.4	372.4
177.5°	369.9	369.9	369.9	369.9	369.4	368.6	368.2	369.0	370.7	371.9	371.6
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	875.7	873.3	875.7	874.1	874.9	872.5	865.2	862.7	865.2	867.6	867.6
5°	886.2	884.5	886.2	886.2	885.4	883.7	875.7	874.1	875.7	876.5	874.9
7.5°	889.4	887.0	889.4	887.8	887.8	886.2	878.1	876.5	877.3	879.7	877.3
10°	889.4	887.0	889.4	888.6	887.8	886.2	878.1	874.9	874.9	877.3	874.9
12.5°	885.4	883.7	885.4	883.7	883.7	882.1	874.1	870.8	871.7	872.5	869.2
15°	878.9	876.5	878.9	877.3	878.1	875.7	866.8	863.5	863.5	865.2	859.5
17.5°	869.2	866.0	869.2	868.4	867.6	866.0	857.8	854.6	853.8	854.6	850.6
20°	857.8	855.4	857.8	857.0	857.0	853.8	845.8	841.7	841.7	841.7	837.7
22.5°	840.1	837.7	840.1	841.7	841.7	840.9	833.7	828.0	826.4	826.4	821.5
25°	819.9	817.5	819.9	819.9	819.1	819.9	817.5	814.2	811.8	809.4	804.6
27.5°	800.5	798.9	800.5	798.9	800.5	798.1	797.3	796.5	793.3	790.9	784.4
30°	781.2	779.6	781.2	779.6	777.9	776.3	772.2	770.6	773.9	772.2	761.7
32.5°	756.9	755.3	756.9	756.9	755.3	755.3	748.8	746.4	747.2	752.1	742.4
35°	731.9	729.4	731.9	731.1	731.9	729.4	725.4	724.6	721.3	727.0	719.7
37.5°	702.8	700.4	702.8	702.8	702.8	704.4	701.2	698.8	693.9	701.2	695.5
40°	672.9	669.7	672.9	672.1	672.9	674.5	672.9	671.3	666.4	672.1	667.2
42.5°	638.9	638.1	638.9	639.8	639.8	643.0	645.5	642.2	640.6	636.5	639.8
45°	602.7	601.0	602.7	604.3	605.1	606.7	613.9	613.9	611.5	605.1	609.9
47.5°	563.9	559.8	563.9	568.7	568.7	571.1	578.4	584.0	580.0	571.9	574.4
50°	522.7	523.5	522.7	525.9	525.9	534.8	540.4	546.0	550.1	540.4	529.1
52.5°	482.3	481.5	482.3	484.7	487.9	491.9	501.6	507.3	513.8	508.1	490.3
55°	441.9	443.5	441.9	442.7	444.3	446.7	461.2	466.9	479.0	471.8	453.2
57.5°	401.5	399.1	401.5	403.1	403.9	406.3	418.4	429.0	436.2	437.0	414.4
60°	354.6	351.4	354.6	361.9	363.5	365.1	376.4	386.2	392.6	395.0	371.6
62.5°	313.4	307.8	313.4	318.3	321.5	325.5	333.6	348.2	353.8	354.6	321.5
65°	269.8	267.4	269.8	279.5	280.3	285.1	294.1	304.6	316.6	315.0	267.4
67.5°	230.2	230.2	230.2	236.7	241.5	244.0	255.3	260.1	275.4	277.1	223.0
70°	193.8	193.0	193.8	198.7	202.0	207.6	218.1	223.8	235.8	239.9	180.9
72.5°	159.2	158.4	159.2	163.2	166.4	171.3	180.1	186.6	197.1	202.0	140.5
75°	128.5	126.8	128.5	131.7	130.9	137.3	144.6	151.0	160.8	164.0	104.2
77.5°	98.5	98.5	98.5	101.8	101.8	108.2	111.5	119.6	125.2	130.1	76.8
80°	73.5	72.7	73.5	74.4	74.4	77.6	83.2	88.9	93.7	93.7	52.5
82.5°	51.7	50.1	51.7	51.7	51.7	53.3	56.5	58.1	61.4	63.8	33.1
85°	32.3	32.3	32.3	33.1	32.3	34.0	34.8	36.4	36.4	34.8	20.2
87.5°	21.0	20.2	21.0	20.2	20.2	19.4	19.4	19.4	18.5	17.7	11.3
90°	9.4	9.4	9.4	9.4	9.4	12.5	16.8	18.9	16.2	10.9	7.0
92.5°	37.7	30.3	37.7	45.3	47.1	66.8	93.1	106.2	93.3	67.4	47.9
95°	131.7	109.0	131.7	154.4	160.1	210.3	277.2	310.6	262.3	165.7	93.3
97.5°	315.6	272.4	315.6	358.8	369.6	401.3	443.7	464.8	384.3	223.3	102.5
100°	454.7	403.2	454.7	506.3	519.1	516.8	513.7	512.2	422.9	244.2	110.3
102.5°	591.6	547.4	591.6	635.7	646.7	606.3	552.5	525.6	435.0	253.8	118.0
105°	766.1	742.3	766.1	789.8	795.7	705.1	584.4	524.0	436.4	260.9	129.4
107.5°	880.2	886.0	880.2	874.5	873.1	746.8	578.4	494.2	416.9	262.3	146.2
110°	923.9	948.6	923.9	899.2	893.0	751.8	563.5	469.4	399.7	260.3	155.6



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	927.8	965.7	927.8	889.8	880.3	735.9	543.2	446.9	384.7	260.3	167.1
115°	903.1	955.8	903.1	850.5	837.4	698.2	512.6	419.8	367.5	262.7	184.2
117.5°	851.0	909.4	851.0	792.6	778.0	652.4	484.9	401.2	356.7	267.6	200.8
120°	808.9	865.7	808.9	752.3	738.0	623.3	470.2	393.7	353.0	271.6	210.5
122.5°	768.1	824.0	768.1	712.1	698.1	594.8	456.9	388.0	351.1	277.3	221.9
125°	709.6	761.2	709.6	658.1	645.2	557.4	440.4	381.8	349.5	285.0	236.6
127.5°	657.1	700.6	657.1	613.6	602.7	527.3	426.9	376.6	348.7	292.7	250.8
130°	626.2	666.3	626.2	586.0	576.0	508.9	419.3	374.6	349.1	298.3	260.2
132.5°	598.1	634.0	598.1	562.1	553.1	493.0	413.0	372.9	349.5	302.9	267.9
135°	559.6	590.6	559.6	528.6	520.8	470.6	403.5	369.9	349.2	307.9	276.8
137.5°	528.8	554.2	528.8	503.3	497.0	454.4	397.7	369.4	351.3	315.3	288.2
140°	507.5	531.3	507.5	483.8	477.9	441.2	392.2	367.7	351.7	319.8	295.9
142.5°	490.0	510.4	490.0	469.6	464.5	432.2	389.2	367.7	353.0	323.6	301.6
145°	463.7	479.2	463.7	448.2	444.4	418.0	382.8	365.2	353.0	328.7	310.4
147.5°	443.5	456.3	443.5	430.7	427.5	406.7	379.0	365.2	355.4	335.9	321.3
150°	430.8	441.2	430.8	420.4	417.8	400.3	376.9	365.2	356.7	339.7	327.0
152.5°	419.9	427.8	419.9	412.0	410.1	395.2	375.2	365.2	357.5	342.2	330.7
155°	407.4	412.6	407.4	402.2	400.9	389.1	373.2	365.2	359.3	347.6	338.9
157.5°	397.6	401.2	397.6	393.9	393.0	383.8	371.4	365.2	361.2	353.1	347.1
160°	391.6	393.7	391.6	389.5	389.1	381.1	370.5	365.2	362.0	355.6	350.8
162.5°	387.8	389.8	387.8	385.8	385.3	378.6	369.7	365.2	362.9	358.2	354.8
165°	382.2	384.3	382.2	380.1	379.6	374.8	368.4	365.2	364.2	362.1	360.5
167.5°	378.2	379.1	378.2	377.3	377.1	374.0	369.8	367.7	366.8	365.0	363.7
170°	377.1	377.1	377.1	377.1	377.1	374.0	369.8	367.7	367.6	367.5	367.5
172.5°	374.1	373.4	374.1	374.9	375.1	372.6	369.3	367.7	367.7	367.7	367.7
175°	372.4	372.4	372.4	372.4	372.4	370.8	368.7	367.7	368.2	369.2	369.9
177.5°	370.8	369.9	370.8	371.6	371.9	370.7	369.0	368.2	368.6	369.4	369.9
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	866.0	861.1	861.1	853.0	849.8	847.4	843.3	831.3	828.0	824.8	829.6
5°	873.3	864.3	857.8	843.3	831.3	826.4	811.0	782.0	762.5	748.0	740.0
7.5°	874.9	863.5	851.4	828.8	799.7	786.8	740.0	686.6	672.1	659.2	651.1
10°	873.3	860.3	843.3	809.4	740.8	718.1	671.3	636.5	627.6	625.2	627.6
12.5°	867.6	855.4	832.1	775.5	679.3	664.0	636.5	616.4	614.7	618.8	640.6
15°	857.8	846.6	819.1	730.2	645.5	634.1	614.7	607.5	616.4	644.6	710.1
17.5°	848.2	835.3	801.3	685.8	619.6	611.5	597.8	612.3	662.4	700.4	722.1
20°	835.3	819.9	781.2	653.5	601.0	593.7	587.2	652.7	690.7	704.4	716.5
22.5°	819.9	803.7	753.7	630.9	581.6	576.0	580.0	675.3	690.7	700.4	710.9
25°	799.7	786.0	721.3	613.1	566.3	559.8	575.2	672.9	681.7	684.2	705.2
27.5°	781.2	763.3	687.4	597.0	547.7	545.2	579.2	662.4	668.9	671.3	693.9
30°	758.5	731.9	649.5	580.0	528.3	527.5	580.0	649.5	647.9	654.3	676.9
32.5°	735.1	685.0	606.7	559.0	509.7	508.9	574.4	630.1	628.5	637.3	654.3
35°	713.3	648.7	548.5	534.8	486.3	487.1	560.6	607.5	608.3	616.4	626.8
37.5°	690.7	617.2	484.7	508.1	463.7	463.7	542.0	586.4	584.8	587.2	601.8
40°	664.0	567.9	428.2	473.4	442.7	440.3	519.4	563.9	558.2	557.4	577.6
42.5°	635.7	513.8	386.2	427.4	418.4	415.2	491.9	536.4	525.9	528.3	554.2
45°	605.1	499.2	353.8	361.1	393.4	391.0	462.0	504.8	497.6	504.0	530.7
47.5°	574.4	470.2	343.3	299.7	366.7	365.9	429.0	474.2	470.2	476.6	504.8
50°	532.3	437.8	342.5	256.9	336.9	340.1	389.4	444.3	444.3	449.9	479.9
52.5°	478.2	398.2	311.0	232.6	302.1	311.8	354.6	418.4	420.0	425.8	452.3
55°	429.0	357.0	288.4	214.1	260.9	281.9	320.7	391.8	395.0	400.7	424.9
57.5°	383.7	297.3	283.5	192.2	223.0	243.1	290.8	365.9	367.5	372.4	395.8
60°	335.3	214.9	260.1	168.8	189.8	205.2	263.3	335.3	340.9	344.1	364.3
62.5°	280.3	155.9	235.8	152.7	173.7	176.9	240.7	306.2	313.4	315.8	327.9
65°	199.5	130.9	200.3	138.9	156.7	157.5	216.5	276.2	282.7	286.8	295.7
67.5°	134.9	106.6	152.7	126.0	143.8	144.6	193.0	241.5	250.5	253.7	259.3
70°	93.7	71.1	113.1	112.3	129.3	130.9	168.0	210.1	218.1	220.5	223.8
72.5°	68.7	57.3	93.7	100.9	113.9	115.6	142.2	174.5	182.6	185.0	186.6
75°	52.5	60.5	76.0	88.1	96.9	97.7	116.4	142.2	147.8	149.4	150.2
77.5°	42.0	56.5	55.7	71.1	79.2	77.6	91.3	109.9	114.7	114.7	114.7
80°	31.5	44.4	42.0	50.9	58.1	56.5	65.4	78.4	80.0	81.6	80.8
82.5°	23.4	28.3	28.3	32.3	38.8	37.2	43.6	50.9	50.9	50.9	52.5
85°	14.5	16.1	12.9	16.9	21.8	21.0	24.3	27.5	28.3	28.3	26.7
87.5°	8.9	7.3	4.0	6.4	9.7	9.7	11.3	12.1	11.3	11.3	11.3
90°	6.5	4.5	2.5	4.5	6.5	7.0	10.9	16.2	18.9	16.8	12.5
92.5°	43.7	26.8	10.0	26.8	43.7	47.9	67.4	93.3	106.2	93.1	66.8
95°	85.6	54.7	23.8	54.7	85.6	93.3	165.7	262.3	310.6	277.2	210.3
97.5°	95.7	68.5	41.2	68.5	95.7	102.5	223.3	384.3	464.8	443.7	401.3
100°	104.1	79.3	54.6	79.3	104.1	110.3	244.2	422.9	512.2	513.7	516.8
102.5°	112.2	89.1	66.0	89.1	112.2	118.0	253.8	435.0	525.6	552.5	606.3
105°	124.5	105.0	85.4	105.0	124.5	129.4	260.9	436.4	524.0	584.4	705.1
107.5°	141.6	123.5	105.3	123.5	141.6	146.2	262.3	416.9	494.2	578.4	746.8
110°	151.5	135.1	118.7	135.1	151.5	155.6	260.3	399.7	469.4	563.5	751.8



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	163.2	147.5	131.9	147.5	163.2	167.1	260.3	384.7	446.9	543.2	735.9
115°	180.6	166.1	151.7	166.1	180.6	184.2	262.7	367.5	419.8	512.6	698.2
117.5°	197.5	184.4	171.3	184.4	197.5	200.8	267.6	356.7	401.2	484.9	652.4
120°	207.4	195.0	182.7	195.0	207.4	210.5	271.6	353.0	393.7	470.2	623.3
122.5°	218.8	206.4	193.9	206.4	218.8	221.9	277.3	351.1	388.0	456.9	594.8
125°	233.8	222.4	211.0	222.4	233.8	236.6	285.0	349.5	381.8	440.4	557.4
127.5°	247.9	236.4	224.9	236.4	247.9	250.8	292.7	348.7	376.6	426.9	527.3
130°	257.1	244.8	232.4	244.8	257.1	260.2	298.3	349.1	374.6	419.3	508.9
132.5°	264.8	252.5	240.1	252.5	264.8	267.9	302.9	349.5	372.9	413.0	493.0
135°	274.0	262.7	251.5	262.7	274.0	276.8	307.9	349.2	369.9	403.5	470.6
137.5°	285.4	274.3	263.1	274.3	285.4	288.2	315.3	351.3	369.4	397.7	454.4
140°	293.3	283.1	272.9	283.1	293.3	295.9	319.8	351.7	367.7	392.2	441.2
142.5°	299.2	289.7	280.2	289.7	299.2	301.6	323.6	353.0	367.7	389.2	432.2
145°	308.3	300.0	291.7	300.0	308.3	310.4	328.7	353.0	365.2	382.8	418.0
147.5°	319.3	311.2	303.1	311.2	319.3	321.3	335.9	355.4	365.2	379.0	406.7
150°	325.1	317.9	310.6	317.9	325.1	327.0	339.7	356.7	365.2	376.9	400.3
152.5°	329.3	323.8	318.2	323.8	329.3	330.7	342.2	357.5	365.2	375.2	395.2
155°	337.8	333.8	329.7	333.8	337.8	338.9	347.6	359.3	365.2	373.2	389.1
157.5°	346.1	342.1	338.1	342.1	346.1	347.1	353.1	361.2	365.2	371.4	383.8
160°	349.9	346.9	343.8	346.9	349.9	350.8	355.6	362.0	365.2	370.5	381.1
162.5°	354.2	351.9	349.5	351.9	354.2	354.8	358.2	362.9	365.2	369.7	378.6
165°	359.9	357.8	355.7	357.8	359.9	360.5	362.1	364.2	365.2	368.4	374.8
167.5°	363.4	362.4	361.4	362.4	363.4	363.7	365.0	366.8	367.7	369.8	374.0
170°	367.2	366.2	365.2	366.2	367.2	367.5	367.5	367.6	367.7	369.8	374.0
172.5°	367.6	367.5	367.2	367.5	367.6	367.7	367.7	367.7	367.7	369.3	372.6
175°	369.9	369.9	369.9	369.9	369.9	369.9	369.2	368.2	367.7	368.7	370.8
177.5°	369.9	369.9	369.9	369.9	369.9	369.9	369.4	368.6	368.2	369.0	370.7
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934251
 CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	824.0	821.5	824.8	815.8	824.8	821.5	824.0	829.6	824.8	828.0	831.3
5°	723.0	718.9	706.0	695.5	706.0	718.9	723.0	740.0	748.0	762.5	782.0
7.5°	646.3	643.0	639.8	633.3	639.8	643.0	646.3	651.1	659.2	672.1	686.6
10°	629.3	630.1	634.9	634.1	634.9	630.1	629.3	627.6	625.2	627.6	636.5
12.5°	672.9	680.1	706.8	705.2	706.8	680.1	672.9	640.6	618.8	614.7	616.4
15°	723.0	725.4	731.1	731.9	731.1	725.4	723.0	710.1	644.6	616.4	607.5
17.5°	727.8	728.6	732.7	732.7	732.7	728.6	727.8	722.1	700.4	662.4	612.3
20°	723.8	725.4	733.5	735.1	733.5	725.4	723.8	716.5	704.4	690.7	652.7
22.5°	722.1	725.4	731.9	731.1	731.9	725.4	722.1	710.9	700.4	690.7	675.3
25°	714.1	714.1	714.9	715.7	714.9	714.1	714.1	705.2	684.2	681.7	672.9
27.5°	697.2	698.8	703.6	702.8	703.6	698.8	697.2	693.9	671.3	668.9	662.4
30°	681.7	680.1	676.1	672.9	676.1	680.1	681.7	676.9	654.3	647.9	649.5
32.5°	656.0	651.9	647.9	645.5	647.9	651.9	656.0	654.3	637.3	628.5	630.1
35°	625.2	626.0	625.2	622.8	625.2	626.0	625.2	626.8	616.4	608.3	607.5
37.5°	603.5	605.1	604.3	601.0	604.3	605.1	603.5	601.8	587.2	584.8	586.4
40°	580.8	581.6	580.8	578.4	580.8	581.6	580.8	577.6	557.4	558.2	563.9
42.5°	559.0	558.2	555.8	554.2	555.8	558.2	559.0	554.2	528.3	525.9	536.4
45°	534.0	534.8	529.9	527.5	529.9	534.8	534.0	530.7	504.0	497.6	504.8
47.5°	508.9	508.9	504.8	502.4	504.8	508.9	508.9	504.8	476.6	470.2	474.2
50°	482.3	481.5	475.8	475.0	475.8	481.5	482.3	479.9	449.9	444.3	444.3
52.5°	451.5	451.5	452.3	454.0	452.3	451.5	451.5	452.3	425.8	420.0	418.4
55°	424.9	425.8	431.4	433.0	431.4	425.8	424.9	424.9	400.7	395.0	391.8
57.5°	397.4	397.4	401.5	401.5	401.5	397.4	397.4	395.8	372.4	367.5	365.9
60°	365.9	367.5	370.7	369.9	370.7	367.5	365.9	364.3	344.1	340.9	335.3
62.5°	332.8	334.4	335.3	333.6	335.3	334.4	332.8	327.9	315.8	313.4	306.2
65°	298.1	299.7	300.5	298.9	300.5	299.7	298.1	295.7	286.8	282.7	276.2
67.5°	262.5	261.7	260.9	264.2	260.9	261.7	262.5	259.3	253.7	250.5	241.5
70°	226.2	226.2	225.4	227.0	225.4	226.2	226.2	223.8	220.5	218.1	210.1
72.5°	187.4	186.6	189.8	187.4	189.8	186.6	187.4	186.6	185.0	182.6	174.5
75°	149.4	151.0	149.4	151.8	149.4	151.0	149.4	150.2	149.4	147.8	142.2
77.5°	113.9	115.6	113.9	113.9	113.9	115.6	113.9	114.7	114.7	114.7	109.9
80°	80.8	80.0	80.0	79.2	80.0	80.0	80.8	80.8	81.6	80.0	78.4
82.5°	51.7	50.9	50.9	52.5	50.9	50.9	51.7	52.5	50.9	50.9	50.9
85°	28.3	29.1	27.5	27.5	27.5	29.1	28.3	26.7	28.3	28.3	27.5
87.5°	10.5	9.7	9.7	9.7	9.7	9.7	10.5	11.3	11.3	11.3	12.1
90°	9.4	9.4	9.4	9.4	9.4	9.4	9.4	12.5	16.8	18.9	16.2
92.5°	47.1	45.3	37.7	30.3	37.7	45.3	47.1	66.8	93.1	106.2	93.3
95°	160.1	154.4	131.7	109.0	131.7	154.4	160.1	210.3	277.2	310.6	262.3
97.5°	369.6	358.8	315.6	272.4	315.6	358.8	369.6	401.3	443.7	464.8	384.3
100°	519.1	506.3	454.7	403.2	454.7	506.3	519.1	516.8	513.7	512.2	422.9
102.5°	646.7	635.7	591.6	547.4	591.6	635.7	646.7	606.3	552.5	525.6	435.0
105°	795.7	789.8	766.1	742.3	766.1	789.8	795.7	705.1	584.4	524.0	436.4
107.5°	873.1	874.5	880.2	886.0	880.2	874.5	873.1	746.8	578.4	494.2	416.9
110°	893.0	899.2	923.9	948.6	923.9	899.2	893.0	751.8	563.5	469.4	399.7



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	880.3	889.8	927.8	965.7	927.8	889.8	880.3	735.9	543.2	446.9	384.7
115°	837.4	850.5	903.1	955.8	903.1	850.5	837.4	698.2	512.6	419.8	367.5
117.5°	778.0	792.6	851.0	909.4	851.0	792.6	778.0	652.4	484.9	401.2	356.7
120°	738.0	752.3	808.9	865.7	808.9	752.3	738.0	623.3	470.2	393.7	353.0
122.5°	698.1	712.1	768.1	824.0	768.1	712.1	698.1	594.8	456.9	388.0	351.1
125°	645.2	658.1	709.6	761.2	709.6	658.1	645.2	557.4	440.4	381.8	349.5
127.5°	602.7	613.6	657.1	700.6	657.1	613.6	602.7	527.3	426.9	376.6	348.7
130°	576.0	586.0	626.2	666.3	626.2	586.0	576.0	508.9	419.3	374.6	349.1
132.5°	553.1	562.1	598.1	634.0	598.1	562.1	553.1	493.0	413.0	372.9	349.5
135°	520.8	528.6	559.6	590.6	559.6	528.6	520.8	470.6	403.5	369.9	349.2
137.5°	497.0	503.3	528.8	554.2	528.8	503.3	497.0	454.4	397.7	369.4	351.3
140°	477.9	483.8	507.5	531.3	507.5	483.8	477.9	441.2	392.2	367.7	351.7
142.5°	464.5	469.6	490.0	510.4	490.0	469.6	464.5	432.2	389.2	367.7	353.0
145°	444.4	448.2	463.7	479.2	463.7	448.2	444.4	418.0	382.8	365.2	353.0
147.5°	427.5	430.7	443.5	456.3	443.5	430.7	427.5	406.7	379.0	365.2	355.4
150°	417.8	420.4	430.8	441.2	430.8	420.4	417.8	400.3	376.9	365.2	356.7
152.5°	410.1	412.0	419.9	427.8	419.9	412.0	410.1	395.2	375.2	365.2	357.5
155°	400.9	402.2	407.4	412.6	407.4	402.2	400.9	389.1	373.2	365.2	359.3
157.5°	393.0	393.9	397.6	401.2	397.6	393.9	393.0	383.8	371.4	365.2	361.2
160°	389.1	389.5	391.6	393.7	391.6	389.5	389.1	381.1	370.5	365.2	362.0
162.5°	385.3	385.8	387.8	389.8	387.8	385.8	385.3	378.6	369.7	365.2	362.9
165°	379.6	380.1	382.2	384.3	382.2	380.1	379.6	374.8	368.4	365.2	364.2
167.5°	377.1	377.3	378.2	379.1	378.2	377.3	377.1	374.0	369.8	367.7	366.8
170°	377.1	377.1	377.1	377.1	377.1	377.1	377.1	374.0	369.8	367.7	367.6
172.5°	375.1	374.9	374.1	373.4	374.1	374.9	375.1	372.6	369.3	367.7	367.7
175°	372.4	372.4	372.4	372.4	372.4	372.4	372.4	370.8	368.7	367.7	368.2
177.5°	371.9	371.6	370.8	369.9	370.8	371.6	371.9	370.7	369.0	368.2	368.6
180°	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	853.8	853.8	853.8	853.8	853.8
2.5°	843.3	847.4	849.8	853.0	861.1
5°	811.0	826.4	831.3	843.3	857.8
7.5°	740.0	786.8	799.7	828.8	851.4
10°	671.3	718.1	740.8	809.4	843.3
12.5°	636.5	664.0	679.3	775.5	832.1
15°	614.7	634.1	645.5	730.2	819.1
17.5°	597.8	611.5	619.6	685.8	801.3
20°	587.2	593.7	601.0	653.5	781.2
22.5°	580.0	576.0	581.6	630.9	753.7
25°	575.2	559.8	566.3	613.1	721.3
27.5°	579.2	545.2	547.7	597.0	687.4
30°	580.0	527.5	528.3	580.0	649.5
32.5°	574.4	508.9	509.7	559.0	606.7
35°	560.6	487.1	486.3	534.8	548.5
37.5°	542.0	463.7	463.7	508.1	484.7
40°	519.4	440.3	442.7	473.4	428.2
42.5°	491.9	415.2	418.4	427.4	386.2
45°	462.0	391.0	393.4	361.1	353.8
47.5°	429.0	365.9	366.7	299.7	343.3
50°	389.4	340.1	336.9	256.9	342.5
52.5°	354.6	311.8	302.1	232.6	311.0
55°	320.7	281.9	260.9	214.1	288.4
57.5°	290.8	243.1	223.0	192.2	283.5
60°	263.3	205.2	189.8	168.8	260.1
62.5°	240.7	176.9	173.7	152.7	235.8
65°	216.5	157.5	156.7	138.9	200.3
67.5°	193.0	144.6	143.8	126.0	152.7
70°	168.0	130.9	129.3	112.3	113.1
72.5°	142.2	115.6	113.9	100.9	93.7
75°	116.4	97.7	96.9	88.1	76.0
77.5°	91.3	77.6	79.2	71.1	55.7
80°	65.4	56.5	58.1	50.9	42.0
82.5°	43.6	37.2	38.8	32.3	28.3
85°	24.3	21.0	21.8	16.9	12.9
87.5°	11.3	9.7	9.7	6.4	4.0
90°	10.9	7.0	6.5	4.5	2.5
92.5°	67.4	47.9	43.7	26.8	10.0
95°	165.7	93.3	85.6	54.7	23.8
97.5°	223.3	102.5	95.7	68.5	41.2
100°	244.2	110.3	104.1	79.3	54.6
102.5°	253.8	118.0	112.2	89.1	66.0
105°	260.9	129.4	124.5	105.0	85.4
107.5°	262.3	146.2	141.6	123.5	105.3
110°	260.3	155.6	151.5	135.1	118.7



TEST NUMBER: P934251

CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	260.3	167.1	163.2	147.5	131.9
115°	262.7	184.2	180.6	166.1	151.7
117.5°	267.6	200.8	197.5	184.4	171.3
120°	271.6	210.5	207.4	195.0	182.7
122.5°	277.3	221.9	218.8	206.4	193.9
125°	285.0	236.6	233.8	222.4	211.0
127.5°	292.7	250.8	247.9	236.4	224.9
130°	298.3	260.2	257.1	244.8	232.4
132.5°	302.9	267.9	264.8	252.5	240.1
135°	307.9	276.8	274.0	262.7	251.5
137.5°	315.3	288.2	285.4	274.3	263.1
140°	319.8	295.9	293.3	283.1	272.9
142.5°	323.6	301.6	299.2	289.7	280.2
145°	328.7	310.4	308.3	300.0	291.7
147.5°	335.9	321.3	319.3	311.2	303.1
150°	339.7	327.0	325.1	317.9	310.6
152.5°	342.2	330.7	329.3	323.8	318.2
155°	347.6	338.9	337.8	333.8	329.7
157.5°	353.1	347.1	346.1	342.1	338.1
160°	355.6	350.8	349.9	346.9	343.8
162.5°	358.2	354.8	354.2	351.9	349.5
165°	362.1	360.5	359.9	357.8	355.7
167.5°	365.0	363.7	363.4	362.4	361.4
170°	367.5	367.5	367.2	366.2	365.2
172.5°	367.7	367.7	367.6	367.5	367.2
175°	369.2	369.9	369.9	369.9	369.9
177.5°	369.4	369.9	369.9	369.9	369.9
180°	369.9	369.9	369.9	369.9	369.9



TEST NUMBER: P934251
 CATALOG NUMBER: SQ4-FA-050U-050D-930-1D-UNV-STD-W-6

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	10.40	11.24	11.37	12.23	13.53	13.22	14.07	14.20	15.05	16.35
	3H	10.88	11.63	11.86	12.63	13.95	14.57	15.32	15.55	16.32	17.64
	4H	11.07	11.78	12.06	12.78	14.11	15.01	15.72	16.01	16.72	18.05
	6H	11.18	11.84	12.19	12.85	14.19	15.29	15.95	16.30	16.95	18.30
	8H	11.18	11.81	12.20	12.83	14.17	15.36	15.99	16.38	17.01	18.35
	12H	11.15	11.75	12.17	12.77	14.13	15.40	16.00	16.42	17.01	18.38
4H	2H	11.43	12.14	12.43	13.14	14.47	13.63	14.35	14.64	15.35	16.68
	3H	12.45	13.05	13.47	14.08	15.42	15.13	15.73	16.15	16.76	18.10
	4H	12.73	13.27	13.75	14.30	15.66	15.66	16.20	16.68	17.23	18.59
	6H	12.85	13.32	13.89	14.37	15.73	16.02	16.49	17.05	17.54	18.90
	8H	12.86	13.30	13.89	14.33	15.71	16.13	16.57	17.16	17.60	18.98
	12H	12.82	13.22	13.88	14.27	15.66	16.18	16.58	17.23	17.63	19.01
8H	4H	13.18	13.62	14.21	14.66	16.03	15.78	16.22	16.82	17.26	18.64
	6H	13.44	13.80	14.50	14.88	16.26	16.22	16.58	17.27	17.66	19.03
	8H	13.48	13.80	14.55	14.87	16.26	16.37	16.69	17.43	17.75	19.14
	12H	13.47	13.75	14.54	14.81	16.24	16.46	16.74	17.53	17.80	19.24
12H	4H	13.19	13.58	14.24	14.63	16.02	15.75	16.14	16.80	17.19	18.58
	6H	13.50	13.82	14.57	14.88	16.28	16.21	16.53	17.28	17.60	18.99
	8H	13.57	13.85	14.64	14.91	16.34	16.37	16.65	17.44	17.71	19.15