

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: P934306

Luminaire Tested: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934306
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-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

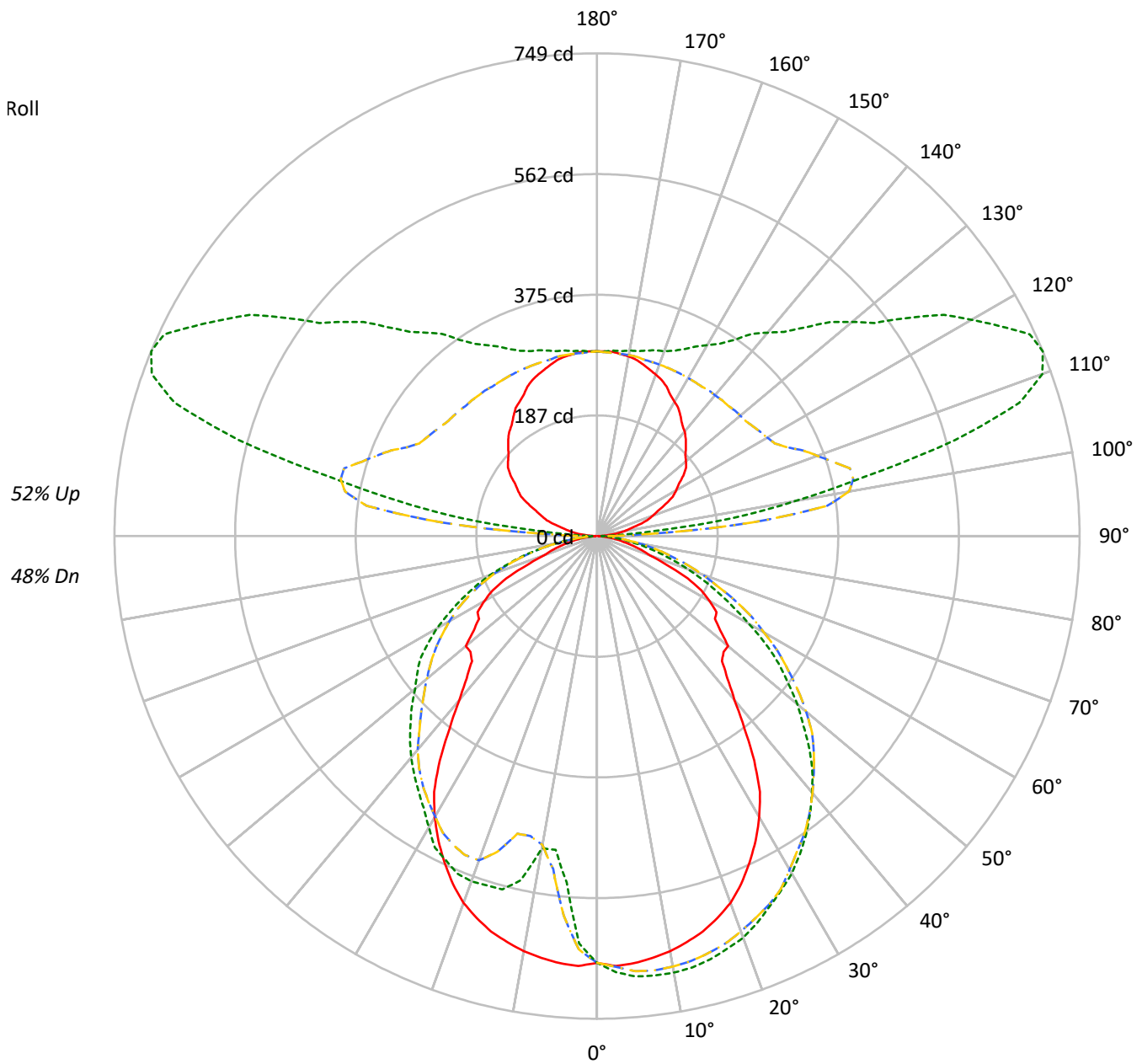
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3577.2 lumens
Efficiency: N/A
Efficacy: 126.0 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

TEST NUMBER: P934306
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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°	6144	6144	6144	6144
5°	6183	6202	6183	4876
10°	6135	6109	6135	4368
15°	6061	5977	6061	4991
20°	5927	5820	5927	5001
25°	5661	5591	5661	4895
30°	5319	5402	5319	4663
35°	4735	5161	4735	4407
40°	3938	4879	3938	4214
45°	3512	4548	3512	3991
50°	3723	4153	3723	3768
55°	3493	3728	3493	3640
60°	3588	3165	3588	3333
65°	3236	2617	3236	2925
70°	2226	2086	2226	2453
75°	1928	1543	1928	1847
80°	1526	1020	1526	1110
85°	828	539	828	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.7
10°-20°	169.7	4.7
20°-30°	262.3	7.3
30°-40°	313.1	8.8
40°-50°	315.0	8.8
50°-60°	274.1	7.7
60°-70°	194.3	5.4
70°-80°	102.8	2.9
80°-90°	26.7	0.7
90°-100°	139.8	3.9
100°-110°	367.6	10.3
110°-120°	381.1	10.7
120°-130°	305.7	8.5
130°-140°	239.9	6.7
140°-150°	184.1	5.1
150°-160°	132.6	3.7
160°-170°	81.1	2.3
170°-180°	27.4	0.8
0°-30°	491.8	13.7
0°-40°	804.9	22.5
0°-60°	1394.0	39.0
0°-90°	1717.8	48.0
90°-120°	888.5	24.8
90°-150°	1618.3	45.2
90°-180°	1859.0	52.0
0°-180°	3577.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	662	662	662	662	662	
5°	665	686	665	539	665	63
15°	635	680	635	568	635	179
25°	559	634	559	555	559	257
35°	425	566	425	483	425	263
45°	274	466	274	409	274	220
55°	224	344	224	336	224	206
65°	155	207	155	232	155	148
75°	59	98	59	118	59	62
85°	10	25	10	21	10	14
90°	2	7	2	7	2	2
95°	18	84	18	84	18	21
105°	66	576	66	576	66	70
115°	118	741	118	741	118	116
125°	164	590	164	590	164	145
135°	195	458	195	458	195	151
145°	226	372	226	372	226	142
155°	256	320	256	320	256	117
165°	276	298	276	298	276	78
175°	287	289	287	289	287	27
180°	287	287	287	287	287	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	667.7	667.7	671.5	672.8	672.8	670.9	669.0	670.9	676.5	678.4	677.7
5°	665.2	670.2	677.2	678.4	679.7	679.0	677.7	679.0	685.3	686.5	687.1
7.5°	660.2	669.6	678.4	680.2	682.1	680.2	679.7	680.9	687.1	688.4	688.4
10°	654.0	667.1	677.2	678.4	680.2	678.4	678.4	680.9	687.1	688.4	689.0
12.5°	645.2	663.3	672.8	674.0	676.5	675.8	675.3	677.7	684.1	685.3	685.3
15°	635.1	656.4	665.2	666.5	670.9	669.6	669.6	672.1	679.0	680.9	680.2
17.5°	621.4	647.7	657.7	659.6	662.8	662.1	662.8	665.2	671.5	672.8	673.4
20°	605.7	635.8	647.7	649.6	652.7	652.7	652.7	655.9	662.1	664.6	664.6
22.5°	584.4	623.3	635.8	637.1	640.8	640.8	642.0	646.4	652.0	652.7	652.7
25°	559.4	609.4	620.1	623.9	627.6	629.5	631.4	633.9	635.8	635.1	635.8
27.5°	533.0	592.0	605.7	608.2	613.3	615.1	617.7	618.2	618.9	620.7	619.5
30°	503.6	567.5	588.1	590.7	598.8	600.1	597.6	598.8	602.0	603.2	604.5
32.5°	470.5	531.2	570.0	575.6	583.2	579.5	578.8	580.7	585.7	585.7	586.9
35°	425.3	503.0	553.1	558.2	563.8	559.4	561.9	562.5	565.6	567.5	566.8
37.5°	375.8	478.6	535.6	539.3	543.7	538.1	541.8	543.7	546.2	545.0	545.0
40°	331.9	440.4	514.9	517.4	521.2	516.8	520.5	521.8	523.0	521.8	521.2
42.5°	299.4	398.4	493.0	496.1	493.6	496.7	498.0	500.5	498.6	496.1	496.1
45°	274.3	387.1	469.1	472.9	469.1	474.2	476.1	476.1	470.5	469.1	468.5
47.5°	266.2	364.5	445.3	445.3	443.5	449.7	452.9	448.5	442.9	440.9	440.9
50°	265.6	339.5	412.8	410.3	419.1	426.6	423.5	419.1	414.7	407.8	407.8
52.5°	241.2	308.8	370.8	380.2	394.0	398.4	393.4	389.0	381.4	378.4	375.8
55°	223.6	276.8	332.6	351.4	365.8	371.5	362.0	357.6	346.4	344.6	343.2
57.5°	219.9	230.5	297.6	321.3	338.9	338.3	332.6	324.5	315.0	313.2	312.6
60°	201.7	166.6	259.9	288.1	306.3	304.4	299.4	291.9	283.1	281.9	280.7
62.5°	182.9	120.9	217.3	249.3	275.0	274.3	270.0	258.7	252.5	249.3	246.8
65°	155.3	101.4	154.8	207.3	244.3	245.5	236.1	228.0	221.1	217.3	216.7
67.5°	118.4	82.7	104.6	172.9	214.8	213.6	201.7	197.9	189.1	187.3	183.5
70°	87.7	55.1	72.7	140.3	186.1	182.9	173.5	169.1	161.0	156.6	154.1
72.5°	72.7	44.5	53.2	109.0	156.6	152.8	144.7	139.7	132.8	129.1	126.6
75°	58.8	47.0	40.7	80.8	127.1	124.7	117.1	112.1	106.5	101.4	102.1
77.5°	43.2	43.8	32.6	59.5	100.9	97.1	92.7	86.5	84.0	78.9	78.9
80°	32.6	34.5	24.5	40.7	72.7	72.7	68.9	64.5	60.1	57.6	57.6
82.5°	21.9	21.9	18.1	25.7	49.5	47.6	45.1	43.8	41.4	40.1	40.1
85°	10.0	12.5	11.3	15.7	26.9	28.2	28.2	26.9	26.3	25.0	25.7
87.5°	3.2	5.6	6.9	8.8	13.8	14.4	15.0	15.0	15.0	15.7	15.7
90°	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7	7.3	7.3
92.5°	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8	36.6	35.1
95°	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0	124.1	119.7
97.5°	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2	286.6	278.2
100°	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8	402.6	392.6
102.5°	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2	501.5	492.9
105°	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8	617.0	612.4
107.5°	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2	677.1	678.2
110°	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0	692.5	697.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6	682.7	690.0
115°	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3	649.3	659.5
117.5°	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9	603.3	614.6
120°	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3	572.4	583.4
122.5°	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2	541.3	552.2
125°	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3	500.3	510.3
127.5°	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9	467.4	475.8
130°	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6	446.6	454.4
132.5°	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3	428.9	435.9
135°	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8	403.9	409.8
137.5°	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4	385.4	390.3
140°	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1	370.6	375.2
142.5°	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1	360.2	364.1
145°	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1	344.6	347.5
147.5°	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4	331.5	334.0
150°	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4	324.0	326.1
152.5°	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4	318.0	319.5
155°	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7	310.9	312.0
157.5°	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6	304.8	305.5
160°	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5	301.7	302.1
162.5°	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6	298.8	299.2
165°	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6	294.3	294.7
167.5°	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0	292.4	292.6
170°	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0	292.4	292.4
172.5°	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9	290.8	290.7
175°	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6	288.8	288.8
177.5°	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5	288.4	288.2
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	679.0	677.2	679.0	677.7	678.4	676.5	670.9	669.0	670.9	672.8	672.8
5°	687.1	685.9	687.1	687.1	686.5	685.3	679.0	677.7	679.0	679.7	678.4
7.5°	689.7	687.8	689.7	688.4	688.4	687.1	680.9	679.7	680.2	682.1	680.2
10°	689.7	687.8	689.7	689.0	688.4	687.1	680.9	678.4	678.4	680.2	678.4
12.5°	686.5	685.3	686.5	685.3	685.3	684.1	677.7	675.3	675.8	676.5	674.0
15°	681.5	679.7	681.5	680.2	680.9	679.0	672.1	669.6	669.6	670.9	666.5
17.5°	674.0	671.5	674.0	673.4	672.8	671.5	665.2	662.8	662.1	662.8	659.6
20°	665.2	663.3	665.2	664.6	664.6	662.1	655.9	652.7	652.7	652.7	649.6
22.5°	651.5	649.6	651.5	652.7	652.7	652.0	646.4	642.0	640.8	640.8	637.1
25°	635.8	633.9	635.8	635.8	635.1	635.8	633.9	631.4	629.5	627.6	623.9
27.5°	620.7	619.5	620.7	619.5	620.7	618.9	618.2	617.7	615.1	613.3	608.2
30°	605.7	604.5	605.7	604.5	603.2	602.0	598.8	597.6	600.1	598.8	590.7
32.5°	586.9	585.7	586.9	586.9	585.7	585.7	580.7	578.8	579.5	583.2	575.6
35°	567.5	565.6	567.5	566.8	567.5	565.6	562.5	561.9	559.4	563.8	558.2
37.5°	545.0	543.1	545.0	545.0	545.0	546.2	543.7	541.8	538.1	543.7	539.3
40°	521.8	519.3	521.8	521.2	521.8	523.0	521.8	520.5	516.8	521.2	517.4
42.5°	495.5	494.8	495.5	496.1	496.1	498.6	500.5	498.0	496.7	493.6	496.1
45°	467.3	466.1	467.3	468.5	469.1	470.5	476.1	476.1	474.2	469.1	472.9
47.5°	437.2	434.1	437.2	440.9	440.9	442.9	448.5	452.9	449.7	443.5	445.3
50°	405.3	405.9	405.3	407.8	407.8	414.7	419.1	423.5	426.6	419.1	410.3
52.5°	374.0	373.3	374.0	375.8	378.4	381.4	389.0	393.4	398.4	394.0	380.2
55°	342.6	343.9	342.6	343.2	344.6	346.4	357.6	362.0	371.5	365.8	351.4
57.5°	311.3	309.4	311.3	312.6	313.2	315.0	324.5	332.6	338.3	338.9	321.3
60°	275.0	272.4	275.0	280.7	281.9	283.1	291.9	299.4	304.4	306.3	288.1
62.5°	243.0	238.6	243.0	246.8	249.3	252.5	258.7	270.0	274.3	275.0	249.3
65°	209.2	207.3	209.2	216.7	217.3	221.1	228.0	236.1	245.5	244.3	207.3
67.5°	178.5	178.5	178.5	183.5	187.3	189.1	197.9	201.7	213.6	214.8	172.9
70°	150.4	149.7	150.4	154.1	156.6	161.0	169.1	173.5	182.9	186.1	140.3
72.5°	123.4	122.7	123.4	126.6	129.1	132.8	139.7	144.7	152.8	156.6	109.0
75°	99.6	98.4	99.6	102.1	101.4	106.5	112.1	117.1	124.7	127.1	80.8
77.5°	76.4	76.4	76.4	78.9	78.9	84.0	86.5	92.7	97.1	100.9	59.5
80°	57.0	56.4	57.0	57.6	57.6	60.1	64.5	68.9	72.7	72.7	40.7
82.5°	40.1	38.9	40.1	40.1	40.1	41.4	43.8	45.1	47.6	49.5	25.7
85°	25.0	25.0	25.0	25.7	25.0	26.3	26.9	28.2	28.2	26.9	15.7
87.5°	16.3	15.7	16.3	15.7	15.7	15.0	15.0	15.0	14.4	13.8	8.8
90°	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6	8.5	5.4
92.5°	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3	52.2	37.2
95°	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3	128.5	72.4
97.5°	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9	173.1	79.5
100°	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8	189.3	85.5
102.5°	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3	196.8	91.4
105°	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4	202.3	100.3
107.5°	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4	203.3	113.4
110°	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0	201.8	120.7



TEST NUMBER: P934306

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3	201.8	129.5
115°	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9	203.7	142.8
117.5°	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6	207.5	155.7
120°	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8	210.6	163.3
122.5°	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3	215.0	172.1
125°	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0	221.0	183.4
127.5°	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4	227.0	194.5
130°	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8	231.4	201.7
132.5°	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0	234.9	207.7
135°	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8	238.7	214.6
137.5°	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4	244.5	223.5
140°	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7	248.0	229.5
142.5°	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7	251.0	233.9
145°	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8	254.8	240.6
147.5°	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6	260.5	249.1
150°	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6	263.4	253.5
152.5°	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2	265.3	256.4
155°	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6	269.6	262.7
157.5°	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0	273.8	269.1
160°	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7	275.7	272.0
162.5°	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4	277.8	275.1
165°	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3	280.8	279.5
167.5°	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4	283.0	282.0
170°	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1	285.0	284.9
172.5°	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4	286.3	286.8
177.5°	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8	286.4	286.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934306

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	671.5	667.7	667.7	661.5	658.9	657.1	654.0	644.6	642.0	639.5	643.3
5°	677.2	670.2	665.2	654.0	644.6	640.8	628.9	606.4	591.3	580.0	573.8
7.5°	678.4	669.6	660.2	642.7	620.1	610.1	573.8	532.5	521.2	511.2	504.8
10°	677.2	667.1	654.0	627.6	574.4	556.9	520.5	493.6	486.7	484.8	486.7
12.5°	672.8	663.3	645.2	601.3	526.8	514.9	493.6	477.9	476.7	479.8	496.7
15°	665.2	656.4	635.1	566.3	500.5	491.8	476.7	471.0	477.9	499.9	550.6
17.5°	657.7	647.7	621.4	531.8	480.4	474.2	463.5	474.8	513.6	543.1	560.0
20°	647.7	635.8	605.7	506.8	466.1	460.4	455.4	506.1	535.6	546.2	555.6
22.5°	635.8	623.3	584.4	489.2	451.0	446.6	449.7	523.7	535.6	543.1	551.2
25°	620.1	609.4	559.4	475.4	439.1	434.1	446.0	521.8	528.6	530.5	546.9
27.5°	605.7	592.0	533.0	462.9	424.7	422.8	449.2	513.6	518.7	520.5	538.1
30°	588.1	567.5	503.6	449.7	409.7	409.0	449.7	503.6	502.4	507.3	524.9
32.5°	570.0	531.2	470.5	433.5	395.3	394.6	445.3	488.6	487.4	494.2	507.3
35°	553.1	503.0	425.3	414.7	377.1	377.7	434.7	471.0	471.7	477.9	486.1
37.5°	535.6	478.6	375.8	394.0	359.6	359.6	420.3	454.8	453.6	455.4	466.6
40°	514.9	440.4	331.9	367.1	343.2	341.4	402.7	437.2	432.8	432.3	447.9
42.5°	493.0	398.4	299.4	331.4	324.5	321.9	381.4	415.9	407.8	409.7	429.7
45°	469.1	387.1	274.3	280.0	305.0	303.2	358.3	391.5	385.8	390.9	411.5
47.5°	445.3	364.5	266.2	232.4	284.4	283.7	332.6	367.7	364.5	369.6	391.5
50°	412.8	339.5	265.6	199.2	261.2	263.7	302.0	344.6	344.6	348.9	372.1
52.5°	370.8	308.8	241.2	180.4	234.2	241.8	275.0	324.5	325.7	330.1	350.8
55°	332.6	276.8	223.6	166.0	202.3	218.6	248.6	303.8	306.3	310.6	329.5
57.5°	297.6	230.5	219.9	149.1	172.9	188.6	225.5	283.7	285.0	288.8	306.9
60°	259.9	166.6	201.7	130.9	147.2	159.1	204.2	259.9	264.3	266.8	282.5
62.5°	217.3	120.9	182.9	118.4	134.7	137.2	186.7	237.4	243.0	244.9	254.3
65°	154.8	101.4	155.3	107.8	121.5	122.2	167.8	214.3	219.2	222.4	229.3
67.5°	104.6	82.7	118.4	97.7	111.5	112.1	149.7	187.3	194.2	196.7	201.1
70°	72.7	55.1	87.7	87.0	100.2	101.4	130.3	162.9	169.1	171.0	173.5
72.5°	53.2	44.5	72.7	78.3	88.4	89.6	110.2	135.3	141.6	143.5	144.7
75°	40.7	47.0	58.8	68.3	75.2	75.7	90.2	110.2	114.6	115.9	116.5
77.5°	32.6	43.8	43.2	55.1	61.4	60.1	70.8	85.2	88.9	88.9	88.9
80°	24.5	34.5	32.6	39.5	45.1	43.8	50.7	60.8	62.0	63.2	62.7
82.5°	18.1	21.9	21.9	25.0	30.1	28.9	33.8	39.5	39.5	39.5	40.7
85°	11.3	12.5	10.0	13.2	16.9	16.3	18.8	21.3	21.9	21.9	20.6
87.5°	6.9	5.6	3.2	5.0	7.5	7.5	8.8	9.4	8.8	8.8	8.8
90°	5.0	3.5	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7
92.5°	33.9	20.7	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8
95°	66.4	42.4	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0
97.5°	74.2	53.1	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2
100°	80.7	61.5	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8
102.5°	87.0	69.1	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2
105°	96.5	81.4	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8
107.5°	109.8	95.7	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2
110°	117.5	104.7	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0



TEST NUMBER: P934306

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	126.5	114.3	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6
115°	140.0	128.8	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3
117.5°	153.2	143.0	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9
120°	160.8	151.3	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3
122.5°	169.7	160.1	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2
125°	181.2	172.4	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3
127.5°	192.2	183.3	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9
130°	199.3	189.8	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6
132.5°	205.3	195.8	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3
135°	212.5	203.7	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8
137.5°	221.4	212.7	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4
140°	227.5	219.5	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1
142.5°	232.0	224.7	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1
145°	239.0	232.6	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1
147.5°	247.5	241.3	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4
150°	252.1	246.4	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4
152.5°	255.4	251.1	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4
155°	262.0	258.8	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7
157.5°	268.3	265.3	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6
160°	271.4	269.0	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5
162.5°	274.6	272.8	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6
165°	279.2	277.5	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6
167.5°	281.8	281.0	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0
170°	284.7	283.9	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0
172.5°	285.1	284.9	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9
175°	286.8	286.8	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6
177.5°	286.8	286.8	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934306
 CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	638.9	637.1	639.5	632.7	639.5	637.1	638.9	643.3	639.5	642.0	644.6
5°	560.6	557.5	547.5	539.3	547.5	557.5	560.6	573.8	580.0	591.3	606.4
7.5°	501.1	498.6	496.1	491.1	496.1	498.6	501.1	504.8	511.2	521.2	532.5
10°	487.9	488.6	492.3	491.8	492.3	488.6	487.9	486.7	484.8	486.7	493.6
12.5°	521.8	527.4	548.1	546.9	548.1	527.4	521.8	496.7	479.8	476.7	477.9
15°	560.6	562.5	566.8	567.5	566.8	562.5	560.6	550.6	499.9	477.9	471.0
17.5°	564.4	565.0	568.2	568.2	568.2	565.0	564.4	560.0	543.1	513.6	474.8
20°	561.2	562.5	568.8	570.0	568.8	562.5	561.2	555.6	546.2	535.6	506.1
22.5°	560.0	562.5	567.5	566.8	567.5	562.5	560.0	551.2	543.1	535.6	523.7
25°	553.8	553.8	554.3	555.0	554.3	553.8	553.8	546.9	530.5	528.6	521.8
27.5°	540.6	541.8	545.5	545.0	545.5	541.8	540.6	538.1	520.5	518.7	513.6
30°	528.6	527.4	524.3	521.8	524.3	527.4	528.6	524.9	507.3	502.4	503.6
32.5°	508.7	505.5	502.4	500.5	502.4	505.5	508.7	507.3	494.2	487.4	488.6
35°	484.8	485.5	484.8	483.0	484.8	485.5	484.8	486.1	477.9	471.7	471.0
37.5°	467.9	469.1	468.5	466.1	468.5	469.1	467.9	466.6	455.4	453.6	454.8
40°	450.4	451.0	450.4	448.5	450.4	451.0	450.4	447.9	432.3	432.8	437.2
42.5°	433.5	432.8	430.9	429.7	430.9	432.8	433.5	429.7	409.7	407.8	415.9
45°	414.0	414.7	410.9	409.0	410.9	414.7	414.0	411.5	390.9	385.8	391.5
47.5°	394.6	394.6	391.5	389.6	391.5	394.6	394.6	391.5	369.6	364.5	367.7
50°	374.0	373.3	368.9	368.3	368.9	373.3	374.0	372.1	348.9	344.6	344.6
52.5°	350.2	350.2	350.8	352.0	350.8	350.2	350.2	350.8	330.1	325.7	324.5
55°	329.5	330.1	334.5	335.8	334.5	330.1	329.5	329.5	310.6	306.3	303.8
57.5°	308.2	308.2	311.3	311.3	311.3	308.2	308.2	306.9	288.8	285.0	283.7
60°	283.7	285.0	287.5	286.9	287.5	285.0	283.7	282.5	266.8	264.3	259.9
62.5°	258.1	259.4	259.9	258.7	259.9	259.4	258.1	254.3	244.9	243.0	237.4
65°	231.2	232.4	233.0	231.7	233.0	232.4	231.2	229.3	222.4	219.2	214.3
67.5°	203.6	203.0	202.3	204.8	202.3	203.0	203.6	201.1	196.7	194.2	187.3
70°	175.4	175.4	174.8	176.1	174.8	175.4	175.4	173.5	171.0	169.1	162.9
72.5°	145.3	144.7	147.2	145.3	147.2	144.7	145.3	144.7	143.5	141.6	135.3
75°	115.9	117.1	115.9	117.8	115.9	117.1	115.9	116.5	115.9	114.6	110.2
77.5°	88.4	89.6	88.4	88.4	88.4	89.6	88.4	88.9	88.9	88.9	85.2
80°	62.7	62.0	62.0	61.4	62.0	62.0	62.7	62.7	63.2	62.0	60.8
82.5°	40.1	39.5	39.5	40.7	39.5	39.5	40.1	40.7	39.5	39.5	39.5
85°	21.9	22.5	21.3	21.3	21.3	22.5	21.9	20.6	21.9	21.9	21.3
87.5°	8.1	7.5	7.5	7.5	7.5	7.5	8.1	8.8	8.8	8.8	9.4
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6
92.5°	36.6	35.1	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3
95°	124.1	119.7	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3
97.5°	286.6	278.2	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9
100°	402.6	392.6	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8
102.5°	501.5	492.9	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3
105°	617.0	612.4	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4
107.5°	677.1	678.2	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4
110°	692.5	697.2	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0



TEST NUMBER: P934306

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	682.7	690.0	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3
115°	649.3	659.5	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9
117.5°	603.3	614.6	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6
120°	572.4	583.4	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8
122.5°	541.3	552.2	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3
125°	500.3	510.3	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0
127.5°	467.4	475.8	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4
130°	446.6	454.4	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8
132.5°	428.9	435.9	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0
135°	403.9	409.8	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8
137.5°	385.4	390.3	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4
140°	370.6	375.2	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7
142.5°	360.2	364.1	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7
145°	344.6	347.5	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8
147.5°	331.5	334.0	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6
150°	324.0	326.1	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6
152.5°	318.0	319.5	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2
155°	310.9	312.0	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6
157.5°	304.8	305.5	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0
160°	301.7	302.1	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7
162.5°	298.8	299.2	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4
165°	294.3	294.7	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3
167.5°	292.4	292.6	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4
170°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1
172.5°	290.8	290.7	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4
177.5°	288.4	288.2	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934306

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	654.0	657.1	658.9	661.5	667.7
5°	628.9	640.8	644.6	654.0	665.2
7.5°	573.8	610.1	620.1	642.7	660.2
10°	520.5	556.9	574.4	627.6	654.0
12.5°	493.6	514.9	526.8	601.3	645.2
15°	476.7	491.8	500.5	566.3	635.1
17.5°	463.5	474.2	480.4	531.8	621.4
20°	455.4	460.4	466.1	506.8	605.7
22.5°	449.7	446.6	451.0	489.2	584.4
25°	446.0	434.1	439.1	475.4	559.4
27.5°	449.2	422.8	424.7	462.9	533.0
30°	449.7	409.0	409.7	449.7	503.6
32.5°	445.3	394.6	395.3	433.5	470.5
35°	434.7	377.7	377.1	414.7	425.3
37.5°	420.3	359.6	359.6	394.0	375.8
40°	402.7	341.4	343.2	367.1	331.9
42.5°	381.4	321.9	324.5	331.4	299.4
45°	358.3	303.2	305.0	280.0	274.3
47.5°	332.6	283.7	284.4	232.4	266.2
50°	302.0	263.7	261.2	199.2	265.6
52.5°	275.0	241.8	234.2	180.4	241.2
55°	248.6	218.6	202.3	166.0	223.6
57.5°	225.5	188.6	172.9	149.1	219.9
60°	204.2	159.1	147.2	130.9	201.7
62.5°	186.7	137.2	134.7	118.4	182.9
65°	167.8	122.2	121.5	107.8	155.3
67.5°	149.7	112.1	111.5	97.7	118.4
70°	130.3	101.4	100.2	87.0	87.7
72.5°	110.2	89.6	88.4	78.3	72.7
75°	90.2	75.7	75.2	68.3	58.8
77.5°	70.8	60.1	61.4	55.1	43.2
80°	50.7	43.8	45.1	39.5	32.6
82.5°	33.8	28.9	30.1	25.0	21.9
85°	18.8	16.3	16.9	13.2	10.0
87.5°	8.8	7.5	7.5	5.0	3.2
90°	8.5	5.4	5.0	3.5	2.0
92.5°	52.2	37.2	33.9	20.7	7.7
95°	128.5	72.4	66.4	42.4	18.5
97.5°	173.1	79.5	74.2	53.1	31.9
100°	189.3	85.5	80.7	61.5	42.3
102.5°	196.8	91.4	87.0	69.1	51.2
105°	202.3	100.3	96.5	81.4	66.2
107.5°	203.3	113.4	109.8	95.7	81.6
110°	201.8	120.7	117.5	104.7	92.0



TEST NUMBER: P934306

CATALOG NUMBER: SQ4-FA-050U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	201.8	129.5	126.5	114.3	102.2
115°	203.7	142.8	140.0	128.8	117.6
117.5°	207.5	155.7	153.2	143.0	132.8
120°	210.6	163.3	160.8	151.3	141.7
122.5°	215.0	172.1	169.7	160.1	150.4
125°	221.0	183.4	181.2	172.4	163.6
127.5°	227.0	194.5	192.2	183.3	174.4
130°	231.4	201.7	199.3	189.8	180.2
132.5°	234.9	207.7	205.3	195.8	186.1
135°	238.7	214.6	212.5	203.7	195.0
137.5°	244.5	223.5	221.4	212.7	204.1
140°	248.0	229.5	227.5	219.5	211.6
142.5°	251.0	233.9	232.0	224.7	217.3
145°	254.8	240.6	239.0	232.6	226.2
147.5°	260.5	249.1	247.5	241.3	235.1
150°	263.4	253.5	252.1	246.4	240.8
152.5°	265.3	256.4	255.4	251.1	246.8
155°	269.6	262.7	262.0	258.8	255.6
157.5°	273.8	269.1	268.3	265.3	262.2
160°	275.7	272.0	271.4	269.0	266.7
162.5°	277.8	275.1	274.6	272.8	271.0
165°	280.8	279.5	279.2	277.5	275.9
167.5°	283.0	282.0	281.8	281.0	280.3
170°	285.0	284.9	284.7	283.9	283.2
172.5°	285.1	285.1	285.1	284.9	284.7
175°	286.3	286.8	286.8	286.8	286.8
177.5°	286.4	286.8	286.8	286.8	286.8
180°	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934306
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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	10.92	11.76	11.89	12.75	14.05	13.71	14.56	14.69	15.54	16.84
	3H	11.39	12.15	12.38	13.14	14.46	15.05	15.80	16.03	16.80	18.12
	4H	11.58	12.30	12.58	13.30	14.63	15.48	16.20	16.48	17.20	18.53
	6H	11.70	12.36	12.71	13.36	14.71	15.76	16.42	16.77	17.42	18.77
	8H	11.70	12.33	12.72	13.35	14.69	15.83	16.46	16.85	17.48	18.82
	12H	11.67	12.27	12.69	13.28	14.65	15.86	16.46	16.88	17.48	18.84
4H	2H	11.94	12.65	12.94	13.65	14.98	14.12	14.84	15.13	15.84	17.17
	3H	12.96	13.56	13.98	14.59	15.93	15.62	16.21	16.63	17.24	18.58
	4H	13.24	13.78	14.26	14.81	16.17	16.14	16.68	17.16	17.70	19.07
	6H	13.36	13.83	14.40	14.88	16.24	16.49	16.96	17.52	18.01	19.37
	8H	13.37	13.81	14.40	14.84	16.22	16.59	17.03	17.63	18.07	19.45
	12H	13.33	13.73	14.39	14.78	16.17	16.64	17.04	17.70	18.09	19.48
8H	4H	13.69	14.12	14.72	15.16	16.54	16.26	16.70	17.29	17.74	19.11
	6H	13.95	14.31	15.00	15.39	16.76	16.69	17.05	17.75	18.13	19.50
	8H	13.99	14.31	15.05	15.37	16.77	16.83	17.15	17.90	18.22	19.61
	12H	13.97	14.25	15.04	15.31	16.75	16.93	17.21	18.00	18.27	19.70
12H	4H	13.69	14.09	14.74	15.14	16.52	16.22	16.62	17.28	17.67	19.06
	6H	14.01	14.32	15.07	15.39	16.78	16.68	17.00	17.75	18.07	19.46
	8H	14.07	14.35	15.14	15.41	16.85	16.84	17.12	17.91	18.18	19.62