

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: P934706

Luminaire Tested: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934706
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

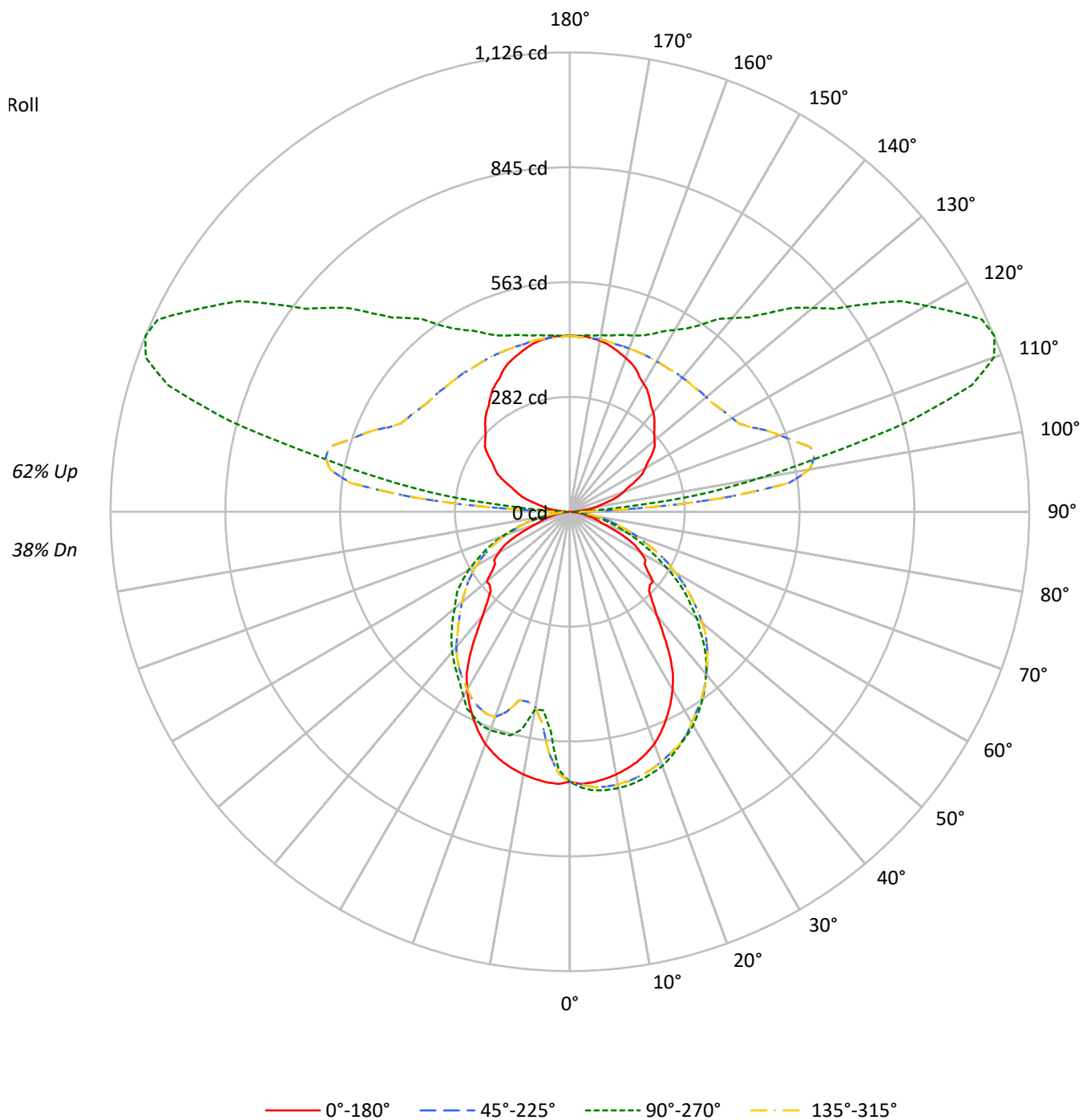
Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38		
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32		
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27		
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23		
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20		
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17		
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15		
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13		
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12		
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11		
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	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	1.3
10°-20°	169.7	3.8
20°-30°	262.3	5.8
30°-40°	313.1	6.9
40°-50°	315.0	7.0
50°-60°	274.1	6.1
60°-70°	194.3	4.3
70°-80°	102.8	2.3
80°-90°	27.3	0.6
90°-100°	210.3	4.7
100°-110°	552.9	12.2
110°-120°	573.3	12.7
120°-130°	459.8	10.2
130°-140°	360.8	8.0
140°-150°	276.9	6.1
150°-160°	199.4	4.4
160°-170°	122.0	2.7
170°-180°	41.2	0.9
0°-30°	491.8	10.9
0°-40°	804.9	17.8
0°-60°	1394.0	30.9
0°-90°	1718.3	38.1
90°-120°	1336.4	29.6
90°-150°	2433.9	53.9
90°-180°	2797.0	61.9
0°-180°	4515.0	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°	3	11	3	11	3	3
95°	28	127	28	127	28	31
105°	100	866	100	866	100	106
115°	177	1115	177	1115	177	175
125°	246	888	246	888	246	219
135°	293	689	293	689	293	227
145°	340	559	340	559	340	213
155°	384	481	384	481	384	177
165°	415	448	415	448	415	117
175°	431	434	431	434	431	41
180°	431	431	431	431	431	

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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°	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7	11.0	11.0
92.5°	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0	55.0	52.9
95°	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2	186.7	180.1
97.5°	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1	431.1	418.5
100°	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7	605.4	590.4
102.5°	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1	754.2	741.3
105°	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4	927.9	921.0
107.5°	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0	1018.2	1019.9
110°	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7	1041.4	1048.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2	1026.7	1037.8
115°	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3	976.6	991.9
117.5°	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8	907.4	924.4
120°	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9	860.8	877.3
122.5°	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6	814.2	830.5
125°	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2	752.5	767.6
127.5°	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1	703.0	715.7
130°	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5	671.7	683.4
132.5°	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1	645.1	655.6
135°	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8	607.5	616.5
137.5°	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0	579.6	587.0
140°	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4	557.3	564.2
142.5°	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1	541.7	547.7
145°	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5	518.3	522.8
147.5°	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4	498.6	502.3
150°	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8	487.3	490.3
152.5°	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8	478.3	480.5
155°	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6	467.6	469.1
157.5°	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5	458.3	459.3
160°	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5	453.7	454.3
162.5°	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5	449.3	449.9
165°	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1	442.7	443.4
167.5°	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2	439.8	440.1
170°	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2	439.8	439.8
172.5°	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6	437.5	437.3
175°	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4	434.3	434.3
177.5°	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3	433.7	433.5
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

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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°	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0	12.8	8.1
92.5°	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8	78.5	55.9
95°	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9	193.3	108.9
97.5°	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1	260.4	119.6
100°	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2	284.8	128.5
102.5°	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3	296.0	137.5
105°	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9	304.3	150.8
107.5°	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2	305.9	170.5
110°	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2	303.6	181.6

TEST NUMBER: P934706

CATALOG NUMBER: SQ4-FA-075U-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°	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7	303.6	194.8
115°	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5	306.4	214.8
117.5°	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9	312.1	234.2
120°	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7	316.7	245.5
122.5°	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5	323.4	258.8
125°	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7	332.4	275.9
127.5°	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7	341.4	292.4
130°	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2	347.9	303.5
132.5°	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7	353.2	312.4
135°	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3	359.0	322.8
137.5°	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8	367.7	336.1
140°	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2	373.0	345.1
142.5°	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7	377.4	351.7
145°	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7	383.2	361.9
147.5°	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5	391.7	374.6
150°	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0	396.2	381.4
152.5°	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9	399.1	385.6
155°	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1	405.4	395.2
157.5°	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2	411.8	404.8
160°	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2	414.7	409.1
162.5°	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2	417.8	413.8
165°	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7	422.3	420.4
167.5°	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8	425.7	424.1
170°	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7	428.6	428.5
172.5°	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4	430.6	431.4
177.5°	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8	430.8	431.4
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

TEST NUMBER: P934706

CATALOG NUMBER: SQ4-FA-075U-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°	7.6	5.2	2.9	5.2	7.6	8.1	12.8	19.0	22.0	19.6	14.7
92.5°	50.9	31.3	11.6	31.3	50.9	55.9	78.5	108.8	123.9	108.6	78.0
95°	99.9	63.9	27.8	63.9	99.9	108.9	193.3	305.9	362.2	323.2	245.2
97.5°	111.6	79.9	48.1	79.9	111.6	119.6	260.4	448.1	542.0	517.3	468.1
100°	121.3	92.5	63.7	92.5	121.3	128.5	284.8	493.2	597.3	599.1	602.7
102.5°	130.8	104.0	77.1	104.0	130.8	137.5	296.0	507.3	613.0	644.4	707.1
105°	145.1	122.4	99.6	122.4	145.1	150.8	304.3	508.9	611.2	681.6	822.4
107.5°	165.2	144.0	122.7	144.0	165.2	170.5	305.9	486.2	576.5	674.6	871.0
110°	176.8	157.6	138.4	157.6	176.8	181.6	303.6	466.2	547.5	657.3	876.7

TEST NUMBER: P934706

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	190.3	172.0	153.7	172.0	190.3	194.8	303.6	448.7	521.2	633.5	858.2
115°	210.6	193.7	176.9	193.7	210.6	214.8	306.4	428.5	489.6	597.9	814.3
117.5°	230.4	215.1	199.8	215.1	230.4	234.2	312.1	415.9	467.8	565.5	760.8
120°	241.9	227.5	213.1	227.5	241.9	245.5	316.7	411.7	459.2	548.4	726.9
122.5°	255.2	240.7	226.1	240.7	255.2	258.8	323.4	409.5	452.5	532.8	693.6
125°	272.6	259.4	246.1	259.4	272.6	275.9	332.4	407.7	445.3	513.6	650.2
127.5°	289.1	275.7	262.4	275.7	289.1	292.4	341.4	406.7	439.3	497.9	615.1
130°	299.8	285.4	271.0	285.4	299.8	303.5	347.9	407.2	436.9	489.1	593.5
132.5°	308.8	294.4	280.0	294.4	308.8	312.4	353.2	407.7	434.9	481.6	575.1
135°	319.5	306.4	293.3	306.4	319.5	322.8	359.0	407.3	431.4	470.5	548.8
137.5°	332.9	319.9	306.9	319.9	332.9	336.1	367.7	409.8	430.9	463.9	530.0
140°	342.1	330.2	318.2	330.2	342.1	345.1	373.0	410.2	428.8	457.4	514.4
142.5°	348.9	337.9	326.9	337.9	348.9	351.7	377.4	411.7	428.8	453.9	504.1
145°	359.5	349.9	340.2	349.9	359.5	361.9	383.2	411.7	425.9	446.5	487.5
147.5°	372.3	362.9	353.5	362.9	372.3	374.6	391.7	414.5	425.9	442.1	474.4
150°	379.2	370.7	362.2	370.7	379.2	381.4	396.2	416.0	425.9	439.5	466.8
152.5°	384.1	377.6	371.2	377.6	384.1	385.6	399.1	416.9	425.9	437.6	460.8
155°	394.0	389.3	384.5	389.3	394.0	395.2	405.4	419.1	425.9	435.2	453.6
157.5°	403.7	399.0	394.3	399.0	403.7	404.8	411.8	421.2	425.9	433.1	447.5
160°	408.2	404.6	401.0	404.6	408.2	409.1	414.7	422.2	425.9	432.1	444.5
162.5°	413.1	410.4	407.7	410.4	413.1	413.8	417.8	423.2	425.9	431.1	441.5
165°	419.7	417.3	414.9	417.3	419.7	420.4	422.3	424.7	425.9	429.6	437.1
167.5°	423.8	422.6	421.5	422.6	423.8	424.1	425.7	427.8	428.8	431.2	436.2
170°	428.2	427.0	425.9	427.0	428.2	428.5	428.6	428.7	428.8	431.2	436.2
172.5°	428.7	428.5	428.2	428.5	428.7	428.8	428.8	428.8	428.8	430.8	434.6
175°	431.4	431.4	431.4	431.4	431.4	431.4	430.6	429.4	428.8	430.0	432.4
177.5°	431.4	431.4	431.4	431.4	431.4	431.4	430.8	429.8	429.4	430.3	432.3
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

TEST NUMBER: P934706

CATALOG NUMBER: SQ4-FA-075U-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°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.7	19.6	22.0	19.0
92.5°	55.0	52.9	44.1	35.3	44.1	52.9	55.0	78.0	108.6	123.9	108.8
95°	186.7	180.1	153.6	127.1	153.6	180.1	186.7	245.2	323.2	362.2	305.9
97.5°	431.1	418.5	368.1	317.7	368.1	418.5	431.1	468.1	517.3	542.0	448.1
100°	605.4	590.4	530.3	470.2	530.3	590.4	605.4	602.7	599.1	597.3	493.2
102.5°	754.2	741.3	689.9	638.4	689.9	741.3	754.2	707.1	644.4	613.0	507.3
105°	927.9	921.0	893.4	865.7	893.4	921.0	927.9	822.4	681.6	611.2	508.9
107.5°	1018.2	1019.9	1026.7	1033.4	1026.7	1019.9	1018.2	871.0	674.6	576.5	486.2
110°	1041.4	1048.6	1077.5	1106.3	1077.5	1048.6	1041.4	876.7	657.3	547.5	466.2

TEST NUMBER: P934706

CATALOG NUMBER: SQ4-FA-075U-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°	1026.7	1037.8	1082.0	1126.3	1082.0	1037.8	1026.7	858.2	633.5	521.2	448.7
115°	976.6	991.9	1053.4	1114.7	1053.4	991.9	976.6	814.3	597.9	489.6	428.5
117.5°	907.4	924.4	992.5	1060.6	992.5	924.4	907.4	760.8	565.5	467.8	415.9
120°	860.8	877.3	943.4	1009.6	943.4	877.3	860.8	726.9	548.4	459.2	411.7
122.5°	814.2	830.5	895.7	961.0	895.7	830.5	814.2	693.6	532.8	452.5	409.5
125°	752.5	767.6	827.6	887.7	827.6	767.6	752.5	650.2	513.6	445.3	407.7
127.5°	703.0	715.7	766.3	817.1	766.3	715.7	703.0	615.1	497.9	439.3	406.7
130°	671.7	683.4	730.3	777.1	730.3	683.4	671.7	593.5	489.1	436.9	407.2
132.5°	645.1	655.6	697.5	739.4	697.5	655.6	645.1	575.1	481.6	434.9	407.7
135°	607.5	616.5	652.7	688.8	652.7	616.5	607.5	548.8	470.5	431.4	407.3
137.5°	579.6	587.0	616.6	646.2	616.6	587.0	579.6	530.0	463.9	430.9	409.8
140°	557.3	564.2	592.0	619.6	592.0	564.2	557.3	514.4	457.4	428.8	410.2
142.5°	541.7	547.7	571.4	595.2	571.4	547.7	541.7	504.1	453.9	428.8	411.7
145°	518.3	522.8	540.8	558.8	540.8	522.8	518.3	487.5	446.5	425.9	411.7
147.5°	498.6	502.3	517.2	532.2	517.2	502.3	498.6	474.4	442.1	425.9	414.5
150°	487.3	490.3	502.4	514.5	502.4	490.3	487.3	466.8	439.5	425.9	416.0
152.5°	478.3	480.5	489.7	498.8	489.7	480.5	478.3	460.8	437.6	425.9	416.9
155°	467.6	469.1	475.1	481.2	475.1	469.1	467.6	453.6	435.2	425.9	419.1
157.5°	458.3	459.3	463.6	467.8	463.6	459.3	458.3	447.5	433.1	425.9	421.2
160°	453.7	454.3	456.7	459.2	456.7	454.3	453.7	444.5	432.1	425.9	422.2
162.5°	449.3	449.9	452.2	454.6	452.2	449.9	449.3	441.5	431.1	425.9	423.2
165°	442.7	443.4	445.8	448.2	445.8	443.4	442.7	437.1	429.6	425.9	424.7
167.5°	439.8	440.1	441.1	442.2	441.1	440.1	439.8	436.2	431.2	428.8	427.8
170°	439.8	439.8	439.8	439.8	439.8	439.8	439.8	436.2	431.2	428.8	428.7
172.5°	437.5	437.3	436.4	435.4	436.4	437.3	437.5	434.6	430.8	428.8	428.8
175°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	432.4	430.0	428.8	429.4
177.5°	433.7	433.5	432.4	431.4	432.4	433.5	433.7	432.3	430.3	429.4	429.8
180°	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4	431.4

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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°	12.8	8.1	7.6	5.2	2.9
92.5°	78.5	55.9	50.9	31.3	11.6
95°	193.3	108.9	99.9	63.9	27.8
97.5°	260.4	119.6	111.6	79.9	48.1
100°	284.8	128.5	121.3	92.5	63.7
102.5°	296.0	137.5	130.8	104.0	77.1
105°	304.3	150.8	145.1	122.4	99.6
107.5°	305.9	170.5	165.2	144.0	122.7
110°	303.6	181.6	176.8	157.6	138.4



TEST NUMBER: P934706

CATALOG NUMBER: SQ4-FA-075U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	303.6	194.8	190.3	172.0	153.7
115°	306.4	214.8	210.6	193.7	176.9
117.5°	312.1	234.2	230.4	215.1	199.8
120°	316.7	245.5	241.9	227.5	213.1
122.5°	323.4	258.8	255.2	240.7	226.1
125°	332.4	275.9	272.6	259.4	246.1
127.5°	341.4	292.4	289.1	275.7	262.4
130°	347.9	303.5	299.8	285.4	271.0
132.5°	353.2	312.4	308.8	294.4	280.0
135°	359.0	322.8	319.5	306.4	293.3
137.5°	367.7	336.1	332.9	319.9	306.9
140°	373.0	345.1	342.1	330.2	318.2
142.5°	377.4	351.7	348.9	337.9	326.9
145°	383.2	361.9	359.5	349.9	340.2
147.5°	391.7	374.6	372.3	362.9	353.5
150°	396.2	381.4	379.2	370.7	362.2
152.5°	399.1	385.6	384.1	377.6	371.2
155°	405.4	395.2	394.0	389.3	384.5
157.5°	411.8	404.8	403.7	399.0	394.3
160°	414.7	409.1	408.2	404.6	401.0
162.5°	417.8	413.8	413.1	410.4	407.7
165°	422.3	420.4	419.7	417.3	414.9
167.5°	425.7	424.1	423.8	422.6	421.5
170°	428.6	428.5	428.2	427.0	425.9
172.5°	428.8	428.8	428.7	428.5	428.2
175°	430.6	431.4	431.4	431.4	431.4
177.5°	430.8	431.4	431.4	431.4	431.4
180°	431.4	431.4	431.4	431.4	431.4

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.89	10.65	10.94	11.71	13.14	12.68	13.45	13.74	14.50	15.94
	3H	10.35	11.04	11.42	12.10	13.56	14.01	14.69	15.07	15.76	17.21
	4H	10.54	11.19	11.62	12.26	13.72	14.44	15.09	15.52	16.16	17.62
	6H	10.66	11.25	11.74	12.32	13.79	14.72	15.31	15.80	16.38	17.85
	8H	10.65	11.22	11.74	12.31	13.77	14.78	15.35	15.87	16.44	17.90
	12H	10.62	11.16	11.71	12.24	13.73	14.81	15.35	15.91	16.43	17.92
4H	2H	10.90	11.55	11.98	12.61	14.07	13.08	13.73	14.16	14.80	16.25
	3H	11.91	12.45	13.00	13.55	15.02	14.57	15.11	15.66	16.20	17.67
	4H	12.19	12.68	13.28	13.77	15.26	15.08	15.58	16.18	16.67	18.16
	6H	12.31	12.73	13.41	13.84	15.33	15.44	15.86	16.54	16.97	18.45
	8H	12.31	12.71	13.41	13.81	15.31	15.54	15.93	16.64	17.03	18.53
	12H	12.27	12.63	13.39	13.75	15.25	15.58	15.94	16.70	17.06	18.56
8H	4H	12.63	13.02	13.73	14.13	15.63	15.20	15.60	16.30	16.70	18.20
	6H	12.88	13.21	14.01	14.36	15.85	15.63	15.95	16.75	17.10	18.59
	8H	12.93	13.21	14.06	14.34	15.86	15.77	16.06	16.90	17.18	18.70
	12H	12.91	13.16	14.04	14.28	15.83	15.86	16.11	16.99	17.23	18.79
12H	4H	12.63	12.99	13.75	14.10	15.61	15.16	15.52	16.28	16.64	18.14
	6H	12.94	13.23	14.07	14.35	15.87	15.62	15.91	16.75	17.03	18.55
	8H	13.01	13.26	14.14	14.38	15.93	15.77	16.03	16.91	17.15	18.70