

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: P934618

Luminaire Tested: SQ4-FA-075U-050D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934618
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

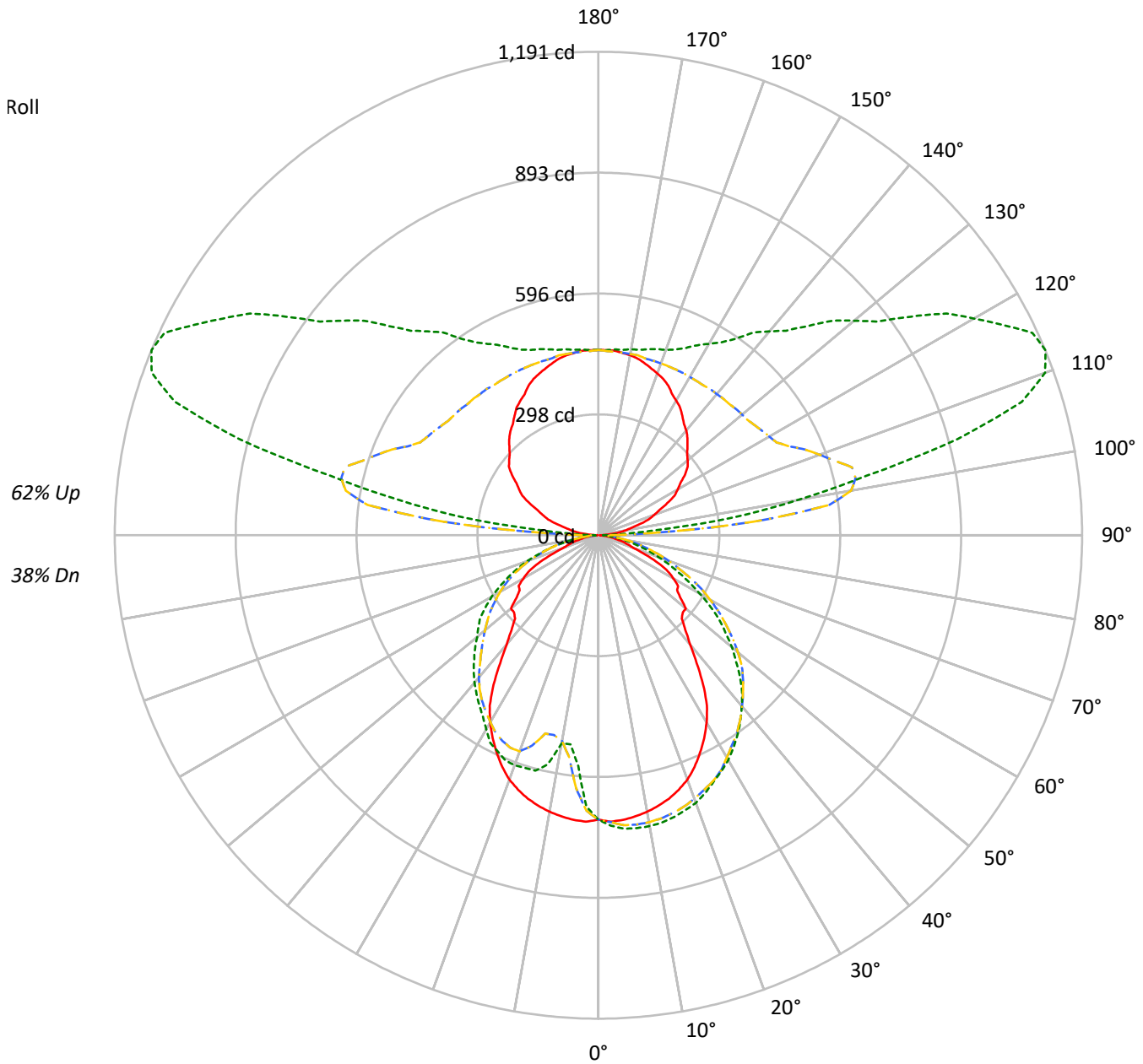
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4776.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

TEST NUMBER: P934618
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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				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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6499	6499	6499	6499
5°	6540	6561	6540	5158
10°	6490	6463	6490	4621
15°	6411	6323	6411	5279
20°	6270	6156	6270	5290
25°	5988	5915	5988	5178
30°	5627	5714	5627	4933
35°	5009	5459	5009	4662
40°	4166	5161	4166	4457
45°	3715	4811	3715	4221
50°	3939	4393	3939	3986
55°	3694	3943	3694	3850
60°	3796	3349	3796	3526
65°	3424	2768	3424	3094
70°	2356	2207	2356	2594
75°	2040	1630	2040	1953
80°	1615	1079	1615	1173
85°	878	571	878	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.3
10°-20°	179.5	3.8
20°-30°	277.5	5.8
30°-40°	331.3	6.9
40°-50°	333.2	7.0
50°-60°	289.9	6.1
60°-70°	205.6	4.3
70°-80°	108.8	2.3
80°-90°	28.8	0.6
90°-100°	222.5	4.7
100°-110°	584.8	12.2
110°-120°	606.4	12.7
120°-130°	486.4	10.2
130°-140°	381.7	8.0
140°-150°	292.9	6.1
150°-160°	211.0	4.4
160°-170°	129.1	2.7
170°-180°	43.6	0.9
0°-30°	520.2	10.9
0°-40°	851.5	17.8
0°-60°	1474.6	30.9
0°-90°	1817.7	38.1
90°-120°	1413.7	29.6
90°-150°	2574.7	53.9
90°-180°	2958.0	61.9
0°-180°	4776.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	700	700	700	700	700	
5°	704	726	704	570	704	67
15°	672	719	672	600	672	189
25°	592	671	592	587	592	272
35°	450	598	450	511	450	278
45°	290	493	290	433	290	232
55°	236	364	236	355	236	217
65°	164	219	164	245	164	157
75°	62	104	62	125	62	65
85°	11	26	11	22	11	14
90°	3	12	3	12	3	3
95°	29	134	29	134	29	33
105°	105	916	105	916	105	112
115°	187	1179	187	1179	187	185
125°	260	939	260	939	260	231
135°	310	729	310	729	310	240
145°	360	591	360	591	360	225
155°	407	509	407	509	407	187
165°	439	474	439	474	439	124
175°	456	459	456	459	456	43
180°	456	456	456	456	456	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	706.3	706.3	710.3	711.7	711.7	709.7	707.7	709.7	715.6	717.6	716.9
5°	703.7	709.0	716.3	717.6	719.0	718.3	716.9	718.3	724.9	726.2	726.9
7.5°	698.4	708.3	717.6	719.6	721.5	719.6	719.0	720.3	726.9	728.2	728.2
10°	691.8	705.6	716.3	717.6	719.6	717.6	717.6	720.3	726.9	728.2	728.8
12.5°	682.5	701.7	711.7	712.9	715.6	714.9	714.3	716.9	723.6	724.9	724.9
15°	671.8	694.4	703.7	705.0	709.7	708.3	708.3	711.0	718.3	720.3	719.6
17.5°	657.3	685.2	695.7	697.7	701.1	700.4	701.1	703.7	710.3	711.7	712.3
20°	640.7	672.5	685.2	687.2	690.4	690.4	690.4	693.8	700.4	703.1	703.1
22.5°	618.2	659.3	672.5	673.9	677.9	677.9	679.2	683.8	689.7	690.4	690.4
25°	591.7	644.7	655.9	660.0	663.9	665.9	667.9	670.6	672.5	671.8	672.5
27.5°	563.9	626.2	640.7	643.4	648.7	650.7	653.4	654.0	654.6	656.6	655.3
30°	532.7	600.3	622.1	624.8	633.4	634.8	632.1	633.4	636.8	638.1	639.4
32.5°	497.7	561.9	603.0	608.9	616.9	613.0	612.3	614.2	619.6	619.6	620.9
35°	449.9	532.0	585.1	590.4	596.4	591.7	594.4	595.0	598.3	600.3	599.6
37.5°	397.6	506.3	566.5	570.5	575.1	569.2	573.1	575.1	577.8	576.5	576.5
40°	351.1	465.8	544.7	547.4	551.3	546.7	550.6	552.0	553.3	552.0	551.3
42.5°	316.8	421.4	521.5	524.8	522.2	525.4	526.8	529.5	527.4	524.8	524.8
45°	290.2	409.5	496.3	500.2	496.3	501.6	503.6	503.6	497.7	496.3	495.6
47.5°	281.6	385.6	471.1	471.1	469.1	475.7	479.1	474.4	468.5	466.4	466.4
50°	281.0	359.1	436.7	434.0	443.3	451.2	448.0	443.3	438.7	431.4	431.4
52.5°	255.1	326.6	392.2	402.2	416.7	421.4	416.1	411.5	403.5	400.2	397.6
55°	236.5	292.8	351.8	371.7	387.0	392.9	382.9	378.3	366.4	364.5	363.1
57.5°	232.6	243.8	314.8	339.9	358.4	357.9	351.8	343.2	333.3	331.3	330.7
60°	213.4	176.3	275.0	304.8	324.0	322.0	316.8	308.8	299.5	298.2	296.9
62.5°	193.5	127.8	229.9	263.7	290.9	290.2	285.6	273.7	267.1	263.7	261.0
65°	164.3	107.3	163.7	219.3	258.5	259.7	249.8	241.2	233.9	229.9	229.2
67.5°	125.3	87.4	110.7	182.9	227.2	226.0	213.4	209.4	200.1	198.1	194.1
70°	92.8	58.3	76.9	148.4	196.8	193.5	183.6	178.9	170.3	165.7	163.0
72.5°	76.9	47.0	56.3	115.3	165.7	161.6	153.0	147.8	140.5	136.5	133.9
75°	62.2	49.7	43.1	85.5	134.5	131.9	123.9	118.6	112.6	107.3	108.0
77.5°	45.7	46.3	34.5	62.9	106.7	102.8	98.1	91.5	88.8	83.5	83.5
80°	34.5	36.5	25.9	43.1	76.9	76.9	72.9	68.3	63.6	61.0	61.0
82.5°	23.2	23.2	19.2	27.2	52.4	50.4	47.7	46.3	43.8	42.4	42.4
85°	10.6	13.2	12.0	16.6	28.5	29.8	29.8	28.5	27.9	26.5	27.2
87.5°	3.4	5.9	7.3	9.3	14.6	15.2	15.9	15.9	15.9	16.6	16.6
90°	3.1	5.5	8.0	8.6	13.5	20.1	23.3	20.7	15.5	11.7	11.7
92.5°	12.3	33.1	53.8	59.1	83.1	115.1	131.1	114.9	82.5	58.2	55.9
95°	29.4	67.6	105.7	115.2	204.5	323.6	383.1	341.8	259.4	197.5	190.5
97.5°	50.9	84.5	118.1	126.5	275.5	474.0	573.3	547.3	495.2	456.1	442.7
100°	67.4	97.8	128.3	135.9	301.2	521.7	631.8	633.7	637.6	640.4	624.5
102.5°	81.5	110.0	138.3	145.4	313.1	536.7	648.4	681.6	748.0	797.8	784.2
105°	105.3	129.4	153.5	159.6	321.9	538.4	646.5	721.0	869.9	981.6	974.3
107.5°	129.8	152.3	174.8	180.4	323.6	514.4	609.8	713.6	921.3	1077.1	1078.9
110°	146.4	166.7	187.0	192.1	321.1	493.1	579.2	695.3	927.4	1101.6	1109.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.6	182.0	201.3	206.1	321.2	474.6	551.3	670.2	907.8	1086.0	1097.8
115°	187.1	204.9	222.8	227.2	324.2	453.3	517.9	632.4	861.3	1033.1	1049.3
117.5°	211.3	227.5	243.7	247.8	330.2	440.0	494.9	598.2	804.8	959.8	977.8
120°	225.5	240.7	255.9	259.7	335.0	435.5	485.7	580.2	769.0	910.5	928.0
122.5°	239.2	254.6	269.9	273.8	342.0	433.1	478.7	563.7	733.7	861.2	878.5
125°	260.3	274.4	288.4	291.9	351.6	431.3	471.1	543.3	687.7	796.0	811.9
127.5°	277.5	291.7	305.8	309.3	361.1	430.2	464.7	526.7	650.7	743.7	757.1
130°	286.7	301.9	317.1	321.0	368.0	430.8	462.2	517.4	627.8	710.6	722.9
132.5°	296.2	311.4	326.6	330.5	373.7	431.3	460.0	509.4	608.3	682.4	693.5
135°	310.2	324.1	338.0	341.5	379.8	430.9	456.4	497.8	580.5	642.6	652.2
137.5°	324.7	338.4	352.1	355.6	389.0	433.5	455.8	490.7	560.7	613.2	621.0
140°	336.6	349.3	361.9	365.1	394.6	433.9	453.6	483.8	544.2	589.5	596.9
142.5°	345.8	357.5	369.1	372.1	399.3	435.5	453.6	480.2	533.2	573.0	579.4
145°	359.8	370.1	380.3	382.8	405.4	435.5	450.5	472.3	515.6	548.2	553.0
147.5°	374.0	383.8	393.8	396.3	414.4	438.5	450.5	467.6	501.8	527.4	531.3
150°	383.1	392.1	401.1	403.4	419.1	440.1	450.5	465.0	493.8	515.4	518.6
152.5°	392.6	399.4	406.3	407.9	422.2	441.0	450.5	462.9	487.5	506.0	508.3
155°	406.8	411.8	416.7	418.0	428.9	443.3	450.5	460.3	479.9	494.6	496.2
157.5°	417.1	422.1	427.0	428.2	435.6	445.6	450.5	458.1	473.4	484.8	485.9
160°	424.1	428.0	431.8	432.7	438.7	446.6	450.5	457.0	470.2	480.0	480.6
162.5°	431.3	434.1	437.0	437.7	441.9	447.7	450.5	456.1	467.0	475.3	475.9
165°	438.9	441.4	444.0	444.7	446.7	449.2	450.5	454.5	462.4	468.3	469.0
167.5°	445.9	447.1	448.4	448.7	450.3	452.5	453.6	456.2	461.4	465.2	465.5
170°	450.5	451.7	453.0	453.3	453.4	453.5	453.6	456.2	461.4	465.2	465.2
172.5°	453.0	453.3	453.5	453.6	453.6	453.6	453.6	455.7	459.7	462.8	462.6
175°	456.4	456.4	456.4	456.4	455.5	454.2	453.6	454.9	457.4	459.4	459.4
177.5°	456.4	456.4	456.4	456.4	455.7	454.7	454.2	455.2	457.2	458.8	458.5
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	718.3	716.3	718.3	716.9	717.6	715.6	709.7	707.7	709.7	711.7	711.7
5°	726.9	725.6	726.9	726.9	726.2	724.9	718.3	716.9	718.3	719.0	717.6
7.5°	729.5	727.6	729.5	728.2	728.2	726.9	720.3	719.0	719.6	721.5	719.6
10°	729.5	727.6	729.5	728.8	728.2	726.9	720.3	717.6	717.6	719.6	717.6
12.5°	726.2	724.9	726.2	724.9	724.9	723.6	716.9	714.3	714.9	715.6	712.9
15°	720.9	719.0	720.9	719.6	720.3	718.3	711.0	708.3	708.3	709.7	705.0
17.5°	712.9	710.3	712.9	712.3	711.7	710.3	703.7	701.1	700.4	701.1	697.7
20°	703.7	701.7	703.7	703.1	703.1	700.4	693.8	690.4	690.4	690.4	687.2
22.5°	689.1	687.2	689.1	690.4	690.4	689.7	683.8	679.2	677.9	677.9	673.9
25°	672.5	670.6	672.5	672.5	671.8	672.5	670.6	667.9	665.9	663.9	660.0
27.5°	656.6	655.3	656.6	655.3	656.6	654.6	654.0	653.4	650.7	648.7	643.4
30°	640.7	639.4	640.7	639.4	638.1	636.8	633.4	632.1	634.8	633.4	624.8
32.5°	620.9	619.6	620.9	620.9	619.6	619.6	614.2	612.3	613.0	616.9	608.9
35°	600.3	598.3	600.3	599.6	600.3	598.3	595.0	594.4	591.7	596.4	590.4
37.5°	576.5	574.5	576.5	576.5	576.5	577.8	575.1	573.1	569.2	575.1	570.5
40°	552.0	549.3	552.0	551.3	552.0	553.3	552.0	550.6	546.7	551.3	547.4
42.5°	524.1	523.4	524.1	524.8	524.8	527.4	529.5	526.8	525.4	522.2	524.8
45°	494.3	493.0	494.3	495.6	496.3	497.7	503.6	503.6	501.6	496.3	500.2
47.5°	462.5	459.2	462.5	466.4	466.4	468.5	474.4	479.1	475.7	469.1	471.1
50°	428.7	429.4	428.7	431.4	431.4	438.7	443.3	448.0	451.2	443.3	434.0
52.5°	395.6	394.9	395.6	397.6	400.2	403.5	411.5	416.1	421.4	416.7	402.2
55°	362.4	363.8	362.4	363.1	364.5	366.4	378.3	382.9	392.9	387.0	371.7
57.5°	329.3	327.3	329.3	330.7	331.3	333.3	343.2	351.8	357.9	358.4	339.9
60°	290.9	288.2	290.9	296.9	298.2	299.5	308.8	316.8	322.0	324.0	304.8
62.5°	257.1	252.4	257.1	261.0	263.7	267.1	273.7	285.6	290.2	290.9	263.7
65°	221.3	219.3	221.3	229.2	229.9	233.9	241.2	249.8	259.7	258.5	219.3
67.5°	188.8	188.8	188.8	194.1	198.1	200.1	209.4	213.4	226.0	227.2	182.9
70°	159.1	158.4	159.1	163.0	165.7	170.3	178.9	183.6	193.5	196.8	148.4
72.5°	130.5	129.8	130.5	133.9	136.5	140.5	147.8	153.0	161.6	165.7	115.3
75°	105.3	104.0	105.3	108.0	107.3	112.6	118.6	123.9	131.9	134.5	85.5
77.5°	80.8	80.8	80.8	83.5	83.5	88.8	91.5	98.1	102.8	106.7	62.9
80°	60.3	59.7	60.3	61.0	61.0	63.6	68.3	72.9	76.9	76.9	43.1
82.5°	42.4	41.1	42.4	42.4	42.4	43.8	46.3	47.7	50.4	52.4	27.2
85°	26.5	26.5	26.5	27.2	26.5	27.9	28.5	29.8	29.8	28.5	16.6
87.5°	17.2	16.6	17.2	16.6	16.6	15.9	15.9	15.9	15.2	14.6	9.3
90°	11.7	11.7	11.7	11.7	11.7	15.5	20.7	23.3	20.1	13.5	8.6
92.5°	46.6	37.3	46.6	55.9	58.2	82.5	114.9	131.1	115.1	83.1	59.1
95°	162.5	134.5	162.5	190.5	197.5	259.4	341.8	383.1	323.6	204.5	115.2
97.5°	389.4	336.0	389.4	442.7	456.1	495.2	547.3	573.3	474.0	275.5	126.5
100°	561.0	497.4	561.0	624.5	640.4	637.6	633.7	631.8	521.7	301.2	135.9
102.5°	729.7	675.3	729.7	784.2	797.8	748.0	681.6	648.4	536.7	313.1	145.4
105°	945.0	915.8	945.0	974.3	981.6	869.9	721.0	646.5	538.4	321.9	159.6
107.5°	1086.0	1093.1	1086.0	1078.9	1077.1	921.3	713.6	609.8	514.4	323.6	180.4
110°	1139.8	1170.3	1139.8	1109.2	1101.6	927.4	695.3	579.2	493.1	321.1	192.1



TEST NUMBER: P934618

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1144.6	1191.4	1144.6	1097.8	1086.0	907.8	670.2	551.3	474.6	321.2	206.1
115°	1114.3	1179.2	1114.3	1049.3	1033.1	861.3	632.4	517.9	453.3	324.2	227.2
117.5°	1049.8	1121.9	1049.8	977.8	959.8	804.8	598.2	494.9	440.0	330.2	247.8
120°	998.0	1067.9	998.0	928.0	910.5	769.0	580.2	485.7	435.5	335.0	259.7
122.5°	947.5	1016.6	947.5	878.5	861.2	733.7	563.7	478.7	433.1	342.0	273.8
125°	875.5	939.0	875.5	811.9	796.0	687.7	543.3	471.1	431.3	351.6	291.9
127.5°	810.7	864.3	810.7	757.1	743.7	650.7	526.7	464.7	430.2	361.1	309.3
130°	772.5	822.0	772.5	722.9	710.6	627.8	517.4	462.2	430.8	368.0	321.0
132.5°	737.8	782.2	737.8	693.5	682.4	608.3	509.4	460.0	431.3	373.7	330.5
135°	690.4	728.6	690.4	652.2	642.6	580.5	497.8	456.4	430.9	379.8	341.5
137.5°	652.3	683.6	652.3	621.0	613.2	560.7	490.7	455.8	433.5	389.0	355.6
140°	626.2	655.4	626.2	596.9	589.5	544.2	483.8	453.6	433.9	394.6	365.1
142.5°	604.5	629.7	604.5	579.4	573.0	533.2	480.2	453.6	435.5	399.3	372.1
145°	572.1	591.1	572.1	553.0	548.2	515.6	472.3	450.5	435.5	405.4	382.8
147.5°	547.2	563.0	547.2	531.3	527.4	501.8	467.6	450.5	438.5	414.4	396.3
150°	531.4	544.3	531.4	518.6	515.4	493.8	465.0	450.5	440.1	419.1	403.4
152.5°	518.0	527.7	518.0	508.3	506.0	487.5	462.9	450.5	441.0	422.2	407.9
155°	502.6	509.0	502.6	496.2	494.6	479.9	460.3	450.5	443.3	428.9	418.0
157.5°	490.4	494.9	490.4	485.9	484.8	473.4	458.1	450.5	445.6	435.6	428.2
160°	483.1	485.7	483.1	480.6	480.0	470.2	457.0	450.5	446.6	438.7	432.7
162.5°	478.4	480.9	478.4	475.9	475.3	467.0	456.1	450.5	447.7	441.9	437.7
165°	471.6	474.1	471.6	469.0	468.3	462.4	454.5	450.5	449.2	446.7	444.7
167.5°	466.6	467.7	466.6	465.5	465.2	461.4	456.2	453.6	452.5	450.3	448.7
170°	465.2	465.2	465.2	465.2	465.2	461.4	456.2	453.6	453.5	453.4	453.3
172.5°	461.6	460.6	461.6	462.6	462.8	459.7	455.7	453.6	453.6	453.6	453.6
175°	459.4	459.4	459.4	459.4	459.4	457.4	454.9	453.6	454.2	455.5	456.4
177.5°	457.4	456.4	457.4	458.5	458.8	457.2	455.2	454.2	454.7	455.7	456.4
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



TEST NUMBER: P934618

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	710.3	706.3	706.3	699.7	697.0	695.1	691.8	681.8	679.2	676.5	680.5
5°	716.3	709.0	703.7	691.8	681.8	677.9	665.2	641.4	625.5	613.5	606.9
7.5°	717.6	708.3	698.4	679.8	655.9	645.4	606.9	563.3	551.3	540.7	534.0
10°	716.3	705.6	691.8	663.9	607.6	589.0	550.6	522.2	514.8	512.9	514.8
12.5°	711.7	701.7	682.5	636.1	557.2	544.7	522.2	505.6	504.3	507.5	525.4
15°	703.7	694.4	671.8	599.0	529.5	520.2	504.3	498.2	505.6	528.8	582.4
17.5°	695.7	685.2	657.3	562.6	508.2	501.6	490.3	502.3	543.3	574.5	592.4
20°	685.2	672.5	640.7	536.1	493.0	487.0	481.7	535.4	566.5	577.8	587.8
22.5°	672.5	659.3	618.2	517.5	477.1	472.5	475.7	554.0	566.5	574.5	583.1
25°	655.9	644.7	591.7	502.9	464.5	459.2	471.8	552.0	559.2	561.2	578.5
27.5°	640.7	626.2	563.9	489.7	449.2	447.3	475.1	543.3	548.6	550.6	569.2
30°	622.1	600.3	532.7	475.7	433.3	432.6	475.7	532.7	531.4	536.7	555.3
32.5°	603.0	561.9	497.7	458.5	418.1	417.4	471.1	516.8	515.5	522.8	536.7
35°	585.1	532.0	449.9	438.7	398.9	399.5	459.8	498.2	498.9	505.6	514.2
37.5°	566.5	506.3	397.6	416.7	380.4	380.4	444.6	481.1	479.8	481.7	493.6
40°	544.7	465.8	351.1	388.3	363.1	361.1	426.0	462.5	457.8	457.2	473.7
42.5°	521.5	421.4	316.8	350.5	343.2	340.6	403.5	440.0	431.4	433.3	454.6
45°	496.3	409.5	290.2	296.2	322.7	320.7	379.0	414.2	408.1	413.5	435.3
47.5°	471.1	385.6	281.6	245.8	300.8	300.2	351.8	389.0	385.6	391.0	414.2
50°	436.7	359.1	281.0	210.7	276.3	278.9	319.4	364.5	364.5	369.1	393.6
52.5°	392.2	326.6	255.1	190.8	247.8	255.8	290.9	343.2	344.5	349.2	371.1
55°	351.8	292.8	236.5	175.6	214.0	231.3	263.0	321.4	324.0	328.6	348.6
57.5°	314.8	243.8	232.6	157.7	182.9	199.5	238.5	300.2	301.4	305.5	324.7
60°	275.0	176.3	213.4	138.5	155.7	168.3	216.0	275.0	279.6	282.3	298.9
62.5°	229.9	127.8	193.5	125.3	142.5	145.1	197.5	251.1	257.1	259.1	269.0
65°	163.7	107.3	164.3	114.0	128.5	129.2	177.5	226.6	231.9	235.2	242.6
67.5°	110.7	87.4	125.3	103.3	118.0	118.6	158.4	198.1	205.4	208.1	212.7
70°	76.9	58.3	92.8	92.1	106.0	107.3	137.8	172.3	178.9	180.9	183.6
72.5°	56.3	47.0	76.9	82.8	93.5	94.7	116.6	143.2	149.8	151.8	153.0
75°	43.1	49.7	62.2	72.2	79.5	80.1	95.4	116.6	121.2	122.6	123.2
77.5°	34.5	46.3	45.7	58.3	64.9	63.6	74.9	90.1	94.1	94.1	94.1
80°	25.9	36.5	34.5	41.8	47.7	46.3	53.6	64.3	65.6	66.9	66.3
82.5°	19.2	23.2	23.2	26.5	31.8	30.5	35.8	41.8	41.8	41.8	43.1
85°	12.0	13.2	10.6	13.9	17.9	17.2	19.9	22.5	23.2	23.2	21.8
87.5°	7.3	5.9	3.4	5.3	7.9	7.9	9.3	10.0	9.3	9.3	9.3
90°	8.0	5.5	3.1	5.5	8.0	8.6	13.5	20.1	23.3	20.7	15.5
92.5°	53.8	33.1	12.3	33.1	53.8	59.1	83.1	115.1	131.1	114.9	82.5
95°	105.7	67.6	29.4	67.6	105.7	115.2	204.5	323.6	383.1	341.8	259.4
97.5°	118.1	84.5	50.9	84.5	118.1	126.5	275.5	474.0	573.3	547.3	495.2
100°	128.3	97.8	67.4	97.8	128.3	135.9	301.2	521.7	631.8	633.7	637.6
102.5°	138.3	110.0	81.5	110.0	138.3	145.4	313.1	536.7	648.4	681.6	748.0
105°	153.5	129.4	105.3	129.4	153.5	159.6	321.9	538.4	646.5	721.0	869.9
107.5°	174.8	152.3	129.8	152.3	174.8	180.4	323.6	514.4	609.8	713.6	921.3
110°	187.0	166.7	146.4	166.7	187.0	192.1	321.1	493.1	579.2	695.3	927.4



TEST NUMBER: P934618

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	201.3	182.0	162.6	182.0	201.3	206.1	321.2	474.6	551.3	670.2	907.8
115°	222.8	204.9	187.1	204.9	222.8	227.2	324.2	453.3	517.9	632.4	861.3
117.5°	243.7	227.5	211.3	227.5	243.7	247.8	330.2	440.0	494.9	598.2	804.8
120°	255.9	240.7	225.5	240.7	255.9	259.7	335.0	435.5	485.7	580.2	769.0
122.5°	269.9	254.6	239.2	254.6	269.9	273.8	342.0	433.1	478.7	563.7	733.7
125°	288.4	274.4	260.3	274.4	288.4	291.9	351.6	431.3	471.1	543.3	687.7
127.5°	305.8	291.7	277.5	291.7	305.8	309.3	361.1	430.2	464.7	526.7	650.7
130°	317.1	301.9	286.7	301.9	317.1	321.0	368.0	430.8	462.2	517.4	627.8
132.5°	326.6	311.4	296.2	311.4	326.6	330.5	373.7	431.3	460.0	509.4	608.3
135°	338.0	324.1	310.2	324.1	338.0	341.5	379.8	430.9	456.4	497.8	580.5
137.5°	352.1	338.4	324.7	338.4	352.1	355.6	389.0	433.5	455.8	490.7	560.7
140°	361.9	349.3	336.6	349.3	361.9	365.1	394.6	433.9	453.6	483.8	544.2
142.5°	369.1	357.5	345.8	357.5	369.1	372.1	399.3	435.5	453.6	480.2	533.2
145°	380.3	370.1	359.8	370.1	380.3	382.8	405.4	435.5	450.5	472.3	515.6
147.5°	393.8	383.8	374.0	383.8	393.8	396.3	414.4	438.5	450.5	467.6	501.8
150°	401.1	392.1	383.1	392.1	401.1	403.4	419.1	440.1	450.5	465.0	493.8
152.5°	406.3	399.4	392.6	399.4	406.3	407.9	422.2	441.0	450.5	462.9	487.5
155°	416.7	411.8	406.8	411.8	416.7	418.0	428.9	443.3	450.5	460.3	479.9
157.5°	427.0	422.1	417.1	422.1	427.0	428.2	435.6	445.6	450.5	458.1	473.4
160°	431.8	428.0	424.1	428.0	431.8	432.7	438.7	446.6	450.5	457.0	470.2
162.5°	437.0	434.1	431.3	434.1	437.0	437.7	441.9	447.7	450.5	456.1	467.0
165°	444.0	441.4	438.9	441.4	444.0	444.7	446.7	449.2	450.5	454.5	462.4
167.5°	448.4	447.1	445.9	447.1	448.4	448.7	450.3	452.5	453.6	456.2	461.4
170°	453.0	451.7	450.5	451.7	453.0	453.3	453.4	453.5	453.6	456.2	461.4
172.5°	453.5	453.3	453.0	453.3	453.5	453.6	453.6	453.6	453.6	455.7	459.7
175°	456.4	456.4	456.4	456.4	456.4	456.4	455.5	454.2	453.6	454.9	457.4
177.5°	456.4	456.4	456.4	456.4	456.4	456.4	455.7	454.7	454.2	455.2	457.2
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



TEST NUMBER: P934618
 CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	675.9	673.9	676.5	669.3	676.5	673.9	675.9	680.5	676.5	679.2	681.8
5°	593.0	589.7	579.2	570.5	579.2	589.7	593.0	606.9	613.5	625.5	641.4
7.5°	530.1	527.4	524.8	519.5	524.8	527.4	530.1	534.0	540.7	551.3	563.3
10°	516.1	516.8	520.8	520.2	520.8	516.8	516.1	514.8	512.9	514.8	522.2
12.5°	552.0	557.9	579.8	578.5	579.8	557.9	552.0	525.4	507.5	504.3	505.6
15°	593.0	595.0	599.6	600.3	599.6	595.0	593.0	582.4	528.8	505.6	498.2
17.5°	597.0	597.6	601.0	601.0	601.0	597.6	597.0	592.4	574.5	543.3	502.3
20°	593.7	595.0	601.7	603.0	601.7	595.0	593.7	587.8	577.8	566.5	535.4
22.5°	592.4	595.0	600.3	599.6	600.3	595.0	592.4	583.1	574.5	566.5	554.0
25°	585.8	585.8	586.4	587.1	586.4	585.8	585.8	578.5	561.2	559.2	552.0
27.5°	571.9	573.1	577.1	576.5	577.1	573.1	571.9	569.2	550.6	548.6	543.3
30°	559.2	557.9	554.6	552.0	554.6	557.9	559.2	555.3	536.7	531.4	532.7
32.5°	538.1	534.7	531.4	529.5	531.4	534.7	538.1	536.7	522.8	515.5	516.8
35°	512.9	513.6	512.9	510.9	512.9	513.6	512.9	514.2	505.6	498.9	498.2
37.5°	495.0	496.3	495.6	493.0	495.6	496.3	495.0	493.6	481.7	479.8	481.1
40°	476.4	477.1	476.4	474.4	476.4	477.1	476.4	473.7	457.2	457.8	462.5
42.5°	458.5	457.8	455.9	454.6	455.9	457.8	458.5	454.6	433.3	431.4	440.0
45°	438.0	438.7	434.6	432.6	434.6	438.7	438.0	435.3	413.5	408.1	414.2
47.5°	417.4	417.4	414.2	412.1	414.2	417.4	417.4	414.2	391.0	385.6	389.0
50°	395.6	394.9	390.3	389.6	390.3	394.9	395.6	393.6	369.1	364.5	364.5
52.5°	370.4	370.4	371.1	372.4	371.1	370.4	370.4	371.1	349.2	344.5	343.2
55°	348.6	349.2	353.8	355.2	353.8	349.2	348.6	348.6	328.6	324.0	321.4
57.5°	326.0	326.0	329.3	329.3	329.3	326.0	326.0	324.7	305.5	301.4	300.2
60°	300.2	301.4	304.1	303.5	304.1	301.4	300.2	298.9	282.3	279.6	275.0
62.5°	273.0	274.4	275.0	273.7	275.0	274.4	273.0	269.0	259.1	257.1	251.1
65°	244.5	245.8	246.5	245.1	246.5	245.8	244.5	242.6	235.2	231.9	226.6
67.5°	215.4	214.7	214.0	216.7	214.0	214.7	215.4	212.7	208.1	205.4	198.1
70°	185.5	185.5	184.9	186.2	184.9	185.5	185.5	183.6	180.9	178.9	172.3
72.5°	153.7	153.0	155.7	153.7	155.7	153.0	153.7	153.0	151.8	149.8	143.2
75°	122.6	123.9	122.6	124.6	122.6	123.9	122.6	123.2	122.6	121.2	116.6
77.5°	93.5	94.7	93.5	93.5	93.5	94.7	93.5	94.1	94.1	94.1	90.1
80°	66.3	65.6	65.6	64.9	65.6	65.6	66.3	66.3	66.9	65.6	64.3
82.5°	42.4	41.8	41.8	43.1	41.8	41.8	42.4	43.1	41.8	41.8	41.8
85°	23.2	23.8	22.5	22.5	22.5	23.8	23.2	21.8	23.2	23.2	22.5
87.5°	8.6	7.9	7.9	7.9	7.9	7.9	8.6	9.3	9.3	9.3	10.0
90°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	15.5	20.7	23.3	20.1
92.5°	58.2	55.9	46.6	37.3	46.6	55.9	58.2	82.5	114.9	131.1	115.1
95°	197.5	190.5	162.5	134.5	162.5	190.5	197.5	259.4	341.8	383.1	323.6
97.5°	456.1	442.7	389.4	336.0	389.4	442.7	456.1	495.2	547.3	573.3	474.0
100°	640.4	624.5	561.0	497.4	561.0	624.5	640.4	637.6	633.7	631.8	521.7
102.5°	797.8	784.2	729.7	675.3	729.7	784.2	797.8	748.0	681.6	648.4	536.7
105°	981.6	974.3	945.0	915.8	945.0	974.3	981.6	869.9	721.0	646.5	538.4
107.5°	1077.1	1078.9	1086.0	1093.1	1086.0	1078.9	1077.1	921.3	713.6	609.8	514.4
110°	1101.6	1109.2	1139.8	1170.3	1139.8	1109.2	1101.6	927.4	695.3	579.2	493.1



TEST NUMBER: P934618

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1086.0	1097.8	1144.6	1191.4	1144.6	1097.8	1086.0	907.8	670.2	551.3	474.6
115°	1033.1	1049.3	1114.3	1179.2	1114.3	1049.3	1033.1	861.3	632.4	517.9	453.3
117.5°	959.8	977.8	1049.8	1121.9	1049.8	977.8	959.8	804.8	598.2	494.9	440.0
120°	910.5	928.0	998.0	1067.9	998.0	928.0	910.5	769.0	580.2	485.7	435.5
122.5°	861.2	878.5	947.5	1016.6	947.5	878.5	861.2	733.7	563.7	478.7	433.1
125°	796.0	811.9	875.5	939.0	875.5	811.9	796.0	687.7	543.3	471.1	431.3
127.5°	743.7	757.1	810.7	864.3	810.7	757.1	743.7	650.7	526.7	464.7	430.2
130°	710.6	722.9	772.5	822.0	772.5	722.9	710.6	627.8	517.4	462.2	430.8
132.5°	682.4	693.5	737.8	782.2	737.8	693.5	682.4	608.3	509.4	460.0	431.3
135°	642.6	652.2	690.4	728.6	690.4	652.2	642.6	580.5	497.8	456.4	430.9
137.5°	613.2	621.0	652.3	683.6	652.3	621.0	613.2	560.7	490.7	455.8	433.5
140°	589.5	596.9	626.2	655.4	626.2	596.9	589.5	544.2	483.8	453.6	433.9
142.5°	573.0	579.4	604.5	629.7	604.5	579.4	573.0	533.2	480.2	453.6	435.5
145°	548.2	553.0	572.1	591.1	572.1	553.0	548.2	515.6	472.3	450.5	435.5
147.5°	527.4	531.3	547.2	563.0	547.2	531.3	527.4	501.8	467.6	450.5	438.5
150°	515.4	518.6	531.4	544.3	531.4	518.6	515.4	493.8	465.0	450.5	440.1
152.5°	506.0	508.3	518.0	527.7	518.0	508.3	506.0	487.5	462.9	450.5	441.0
155°	494.6	496.2	502.6	509.0	502.6	496.2	494.6	479.9	460.3	450.5	443.3
157.5°	484.8	485.9	490.4	494.9	490.4	485.9	484.8	473.4	458.1	450.5	445.6
160°	480.0	480.6	483.1	485.7	483.1	480.6	480.0	470.2	457.0	450.5	446.6
162.5°	475.3	475.9	478.4	480.9	478.4	475.9	475.3	467.0	456.1	450.5	447.7
165°	468.3	469.0	471.6	474.1	471.6	469.0	468.3	462.4	454.5	450.5	449.2
167.5°	465.2	465.5	466.6	467.7	466.6	465.5	465.2	461.4	456.2	453.6	452.5
170°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	461.4	456.2	453.6	453.5
172.5°	462.8	462.6	461.6	460.6	461.6	462.6	462.8	459.7	455.7	453.6	453.6
175°	459.4	459.4	459.4	459.4	459.4	459.4	459.4	457.4	454.9	453.6	454.2
177.5°	458.8	458.5	457.4	456.4	457.4	458.5	458.8	457.2	455.2	454.2	454.7
180°	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4	456.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	691.8	695.1	697.0	699.7	706.3
5°	665.2	677.9	681.8	691.8	703.7
7.5°	606.9	645.4	655.9	679.8	698.4
10°	550.6	589.0	607.6	663.9	691.8
12.5°	522.2	544.7	557.2	636.1	682.5
15°	504.3	520.2	529.5	599.0	671.8
17.5°	490.3	501.6	508.2	562.6	657.3
20°	481.7	487.0	493.0	536.1	640.7
22.5°	475.7	472.5	477.1	517.5	618.2
25°	471.8	459.2	464.5	502.9	591.7
27.5°	475.1	447.3	449.2	489.7	563.9
30°	475.7	432.6	433.3	475.7	532.7
32.5°	471.1	417.4	418.1	458.5	497.7
35°	459.8	399.5	398.9	438.7	449.9
37.5°	444.6	380.4	380.4	416.7	397.6
40°	426.0	361.1	363.1	388.3	351.1
42.5°	403.5	340.6	343.2	350.5	316.8
45°	379.0	320.7	322.7	296.2	290.2
47.5°	351.8	300.2	300.8	245.8	281.6
50°	319.4	278.9	276.3	210.7	281.0
52.5°	290.9	255.8	247.8	190.8	255.1
55°	263.0	231.3	214.0	175.6	236.5
57.5°	238.5	199.5	182.9	157.7	232.6
60°	216.0	168.3	155.7	138.5	213.4
62.5°	197.5	145.1	142.5	125.3	193.5
65°	177.5	129.2	128.5	114.0	164.3
67.5°	158.4	118.6	118.0	103.3	125.3
70°	137.8	107.3	106.0	92.1	92.8
72.5°	116.6	94.7	93.5	82.8	76.9
75°	95.4	80.1	79.5	72.2	62.2
77.5°	74.9	63.6	64.9	58.3	45.7
80°	53.6	46.3	47.7	41.8	34.5
82.5°	35.8	30.5	31.8	26.5	23.2
85°	19.9	17.2	17.9	13.9	10.6
87.5°	9.3	7.9	7.9	5.3	3.4
90°	13.5	8.6	8.0	5.5	3.1
92.5°	83.1	59.1	53.8	33.1	12.3
95°	204.5	115.2	105.7	67.6	29.4
97.5°	275.5	126.5	118.1	84.5	50.9
100°	301.2	135.9	128.3	97.8	67.4
102.5°	313.1	145.4	138.3	110.0	81.5
105°	321.9	159.6	153.5	129.4	105.3
107.5°	323.6	180.4	174.8	152.3	129.8
110°	321.1	192.1	187.0	166.7	146.4



TEST NUMBER: P934618

CATALOG NUMBER: SQ4-FA-075U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	321.2	206.1	201.3	182.0	162.6
115°	324.2	227.2	222.8	204.9	187.1
117.5°	330.2	247.8	243.7	227.5	211.3
120°	335.0	259.7	255.9	240.7	225.5
122.5°	342.0	273.8	269.9	254.6	239.2
125°	351.6	291.9	288.4	274.4	260.3
127.5°	361.1	309.3	305.8	291.7	277.5
130°	368.0	321.0	317.1	301.9	286.7
132.5°	373.7	330.5	326.6	311.4	296.2
135°	379.8	341.5	338.0	324.1	310.2
137.5°	389.0	355.6	352.1	338.4	324.7
140°	394.6	365.1	361.9	349.3	336.6
142.5°	399.3	372.1	369.1	357.5	345.8
145°	405.4	382.8	380.3	370.1	359.8
147.5°	414.4	396.3	393.8	383.8	374.0
150°	419.1	403.4	401.1	392.1	383.1
152.5°	422.2	407.9	406.3	399.4	392.6
155°	428.9	418.0	416.7	411.8	406.8
157.5°	435.6	428.2	427.0	422.1	417.1
160°	438.7	432.7	431.8	428.0	424.1
162.5°	441.9	437.7	437.0	434.1	431.3
165°	446.7	444.7	444.0	441.4	438.9
167.5°	450.3	448.7	448.4	447.1	445.9
170°	453.4	453.3	453.0	451.7	450.5
172.5°	453.6	453.6	453.5	453.3	453.0
175°	455.5	456.4	456.4	456.4	456.4
177.5°	455.7	456.4	456.4	456.4	456.4
180°	456.4	456.4	456.4	456.4	456.4



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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	10.08	10.84	11.13	11.90	13.33	12.88	13.64	13.93	14.70	16.13
	3H	10.55	11.23	11.61	12.30	13.75	14.21	14.89	15.27	15.96	17.41
	4H	10.74	11.38	11.81	12.45	13.91	14.64	15.29	15.71	16.35	17.81
	6H	10.85	11.45	11.93	12.52	13.99	14.91	15.51	15.99	16.58	18.05
	8H	10.85	11.42	11.94	12.50	13.97	14.98	15.55	16.07	16.63	18.10
	12H	10.82	11.36	11.91	12.44	13.92	15.01	15.55	16.10	16.63	18.12
4H	2H	11.09	11.74	12.17	12.81	14.27	13.28	13.92	14.36	14.99	16.45
	3H	12.11	12.65	13.20	13.75	15.22	14.76	15.30	15.85	16.40	17.87
	4H	12.38	12.88	13.48	13.96	15.45	15.28	15.78	16.37	16.86	18.35
	6H	12.50	12.93	13.60	14.04	15.52	15.63	16.06	16.73	17.17	18.65
	8H	12.51	12.90	13.61	14.00	15.50	15.73	16.13	16.83	17.23	18.73
	12H	12.47	12.83	13.59	13.94	15.45	15.78	16.14	16.90	17.25	18.76
8H	4H	12.82	13.22	13.92	14.32	15.82	15.40	15.79	16.50	16.90	18.40
	6H	13.08	13.41	14.20	14.55	16.05	15.82	16.15	16.95	17.29	18.79
	8H	13.12	13.41	14.25	14.53	16.05	15.97	16.26	17.10	17.38	18.90
	12H	13.10	13.35	14.24	14.47	16.03	16.06	16.31	17.19	17.43	18.98
12H	4H	12.82	13.18	13.94	14.30	15.80	15.36	15.72	16.48	16.83	18.34
	6H	13.14	13.43	14.27	14.55	16.07	15.82	16.11	16.95	17.23	18.75
	8H	13.20	13.45	14.34	14.57	16.13	15.97	16.22	17.10	17.34	18.90