

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: P934622

Luminaire Tested: SQ4-FA-075U-050D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934622
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-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

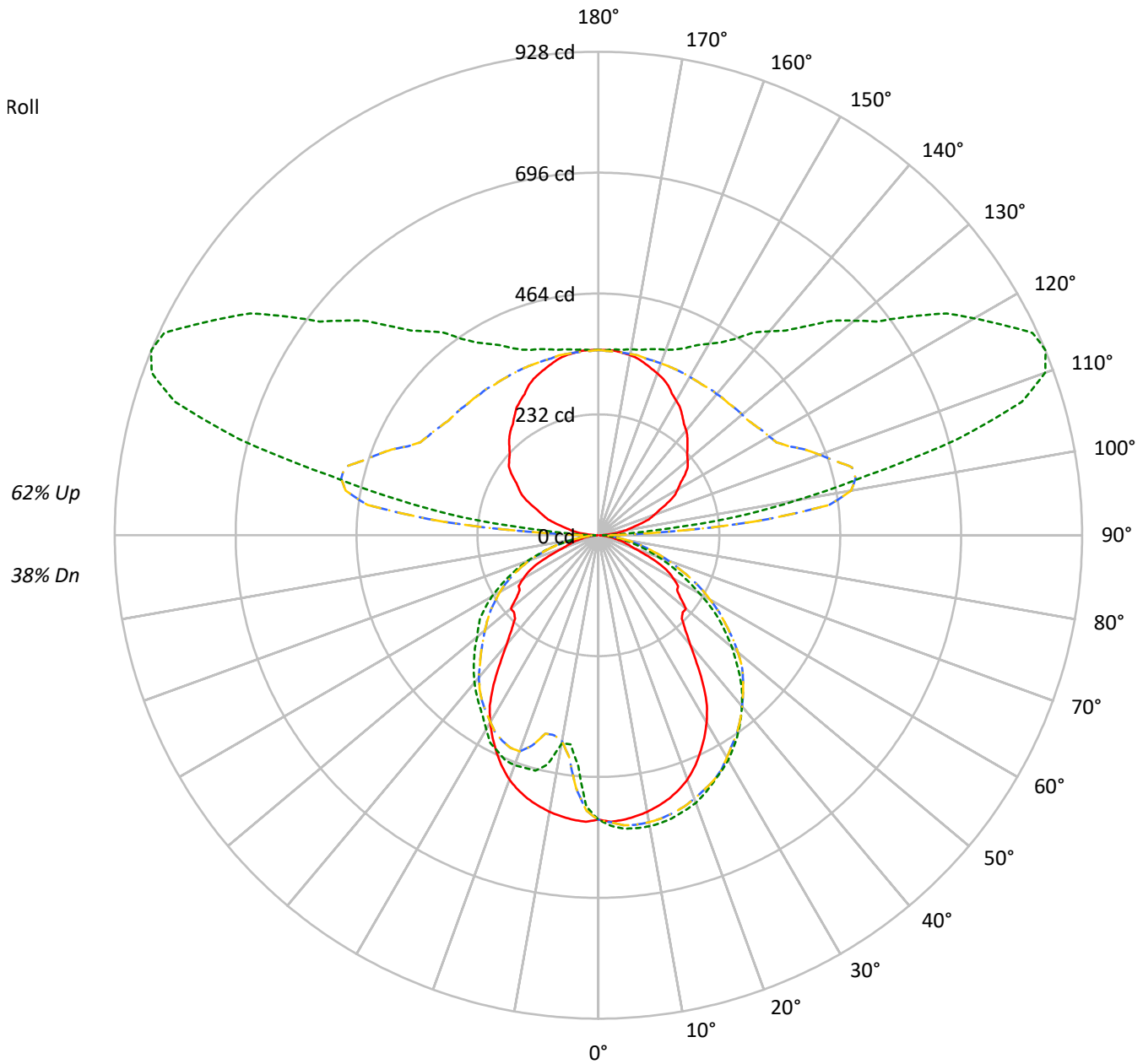
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3722.2 lumens
Efficiency: N/A
Efficacy: 108.2 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

TEST NUMBER: P934622
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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°	5066	5066	5066	5066
5°	5097	5113	5097	4020
10°	5058	5036	5058	3601
15°	4997	4927	4997	4115
20°	4886	4798	4886	4123
25°	4668	4609	4668	4035
30°	4385	4453	4385	3844
35°	3904	4255	3904	3633
40°	3247	4022	3247	3474
45°	2895	3749	2895	3290
50°	3070	3423	3070	3106
55°	2879	3073	2879	3000
60°	2958	2610	2958	2748
65°	2670	2157	2670	2411
70°	1835	1719	1835	2021
75°	1590	1271	1590	1522
80°	1259	841	1259	915
85°	679	444	679	379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4447 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.3
10°-20°	139.9	3.8
20°-30°	216.3	5.8
30°-40°	258.2	6.9
40°-50°	259.7	7.0
50°-60°	225.9	6.1
60°-70°	160.2	4.3
70°-80°	84.8	2.3
80°-90°	22.5	0.6
90°-100°	173.4	4.7
100°-110°	455.8	12.2
110°-120°	472.6	12.7
120°-130°	379.1	10.2
130°-140°	297.5	8.0
140°-150°	228.3	6.1
150°-160°	164.4	4.4
160°-170°	100.6	2.7
170°-180°	34.0	0.9
0°-30°	405.4	10.9
0°-40°	663.6	17.8
0°-60°	1149.2	30.9
0°-90°	1416.6	38.1
90°-120°	1101.7	29.6
90°-150°	2006.6	53.9
90°-180°	2306.0	62.0
0°-180°	3722.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	546	546	546	546	546	
5°	548	566	548	445	548	52
15°	524	560	524	468	524	147
25°	461	523	461	458	461	212
35°	351	466	351	398	351	217
45°	226	384	226	337	226	181
55°	184	284	184	277	184	169
65°	128	171	128	191	128	122
75°	48	81	48	97	48	51
85°	8	21	8	18	8	11
90°	2	9	2	9	2	2
95°	23	105	23	105	23	25
105°	82	714	82	714	82	87
115°	146	919	146	919	146	144
125°	203	732	203	732	203	180
135°	242	568	242	568	242	187
145°	280	461	280	461	280	176
155°	317	397	317	397	317	146
165°	342	370	342	370	342	97
175°	356	358	356	358	356	34
180°	356	356	356	356	356	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	550.5	550.5	553.6	554.6	554.6	553.1	551.6	553.1	557.7	559.3	558.7
5°	548.4	552.6	558.2	559.3	560.3	559.8	558.7	559.8	564.9	566.0	566.5
7.5°	544.3	552.0	559.3	560.8	562.3	560.8	560.3	561.3	566.5	567.5	567.5
10°	539.2	549.9	558.2	559.3	560.8	559.3	559.3	561.3	566.5	567.5	568.0
12.5°	531.9	546.9	554.6	555.6	557.7	557.2	556.7	558.7	563.9	564.9	564.9
15°	523.6	541.2	548.4	549.5	553.1	552.0	552.0	554.1	559.8	561.3	560.8
17.5°	512.3	534.0	542.2	543.8	546.4	545.9	546.4	548.4	553.6	554.6	555.2
20°	499.3	524.1	534.0	535.5	538.1	538.1	538.1	540.7	545.9	547.9	547.9
22.5°	481.8	513.8	524.1	525.2	528.3	528.3	529.3	532.9	537.5	538.1	538.1
25°	461.2	502.4	511.2	514.4	517.4	519.0	520.5	522.6	524.1	523.6	524.1
27.5°	439.4	488.0	499.3	501.4	505.6	507.1	509.2	509.7	510.2	511.7	510.7
30°	415.2	467.9	484.9	486.9	493.6	494.7	492.6	493.6	496.3	497.3	498.3
32.5°	387.8	437.9	469.9	474.6	480.8	477.7	477.2	478.7	482.9	482.9	483.9
35°	350.7	414.6	456.0	460.2	464.8	461.2	463.2	463.7	466.3	467.9	467.3
37.5°	309.8	394.5	441.5	444.6	448.2	443.6	446.7	448.2	450.3	449.3	449.3
40°	273.7	363.1	424.5	426.6	429.7	426.0	429.1	430.2	431.2	430.2	429.7
42.5°	246.9	328.4	406.4	409.0	406.9	409.5	410.6	412.6	411.0	409.0	409.0
45°	226.1	319.2	386.8	389.9	386.8	390.9	392.5	392.5	387.8	386.8	386.2
47.5°	219.4	300.5	367.1	367.1	365.6	370.8	373.4	369.8	365.1	363.5	363.5
50°	219.0	279.9	340.3	338.3	345.5	351.7	349.1	345.5	341.9	336.2	336.2
52.5°	198.8	254.6	305.7	313.5	324.8	328.4	324.3	320.7	314.5	311.9	309.8
55°	184.3	228.2	274.2	289.7	301.6	306.2	298.5	294.8	285.6	284.1	283.0
57.5°	181.3	190.0	245.3	264.9	279.4	278.9	274.2	267.5	259.7	258.2	257.7
60°	166.3	137.4	214.3	237.5	252.5	250.9	246.9	240.6	233.4	232.4	231.4
62.5°	150.8	99.6	179.2	205.5	226.7	226.1	222.6	213.3	208.1	205.5	203.4
65°	128.1	83.6	127.6	170.9	201.4	202.4	194.7	188.0	182.3	179.2	178.6
67.5°	97.6	68.1	86.2	142.5	177.1	176.1	166.3	163.2	155.9	154.4	151.3
70°	72.3	45.4	59.9	115.7	153.4	150.8	143.1	139.4	132.7	129.1	127.0
72.5°	59.9	36.7	43.9	89.9	129.1	126.0	119.3	115.2	109.5	106.4	104.3
75°	48.5	38.7	33.6	66.6	104.8	102.8	96.6	92.4	87.8	83.6	84.2
77.5°	35.7	36.1	26.9	49.0	83.2	80.1	76.5	71.3	69.2	65.1	65.1
80°	26.9	28.4	20.2	33.6	59.9	59.9	56.8	53.2	49.6	47.5	47.5
82.5°	18.1	18.1	14.9	21.2	40.8	39.3	37.2	36.1	34.1	33.0	33.0
85°	8.2	10.3	9.3	12.9	22.2	23.3	23.3	22.2	21.7	20.6	21.2
87.5°	2.6	4.6	5.7	7.2	11.4	11.9	12.4	12.4	12.4	12.9	12.9
90°	2.4	4.3	6.2	6.7	10.5	15.6	18.2	16.2	12.1	9.1	9.1
92.5°	9.5	25.8	42.0	46.0	64.8	89.7	102.2	89.6	64.3	45.4	43.6
95°	22.9	52.7	82.4	89.8	159.4	252.2	298.6	266.4	202.1	153.9	148.5
97.5°	39.7	65.8	92.0	98.6	214.7	369.4	446.8	426.5	385.9	355.4	345.0
100°	52.5	76.2	100.0	106.0	234.8	406.6	492.4	493.9	496.9	499.1	486.7
102.5°	63.5	85.7	107.8	113.3	244.0	418.3	505.4	531.2	583.0	621.8	611.1
105°	82.1	100.9	119.7	124.4	250.9	419.6	503.9	561.9	678.0	765.0	759.3
107.5°	101.2	118.7	136.2	140.6	252.2	400.9	475.2	556.2	718.0	839.5	840.8
110°	114.1	129.9	145.8	149.7	250.2	384.3	451.4	541.8	722.8	858.6	864.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	126.7	141.8	156.8	160.6	250.3	369.9	429.7	522.3	707.5	846.4	855.5
115°	145.8	159.7	173.6	177.1	252.6	353.3	403.6	492.9	671.3	805.1	817.7
117.5°	164.7	177.3	190.0	193.1	257.3	342.9	385.7	466.2	627.2	748.1	762.1
120°	175.7	187.6	199.4	202.4	261.1	339.4	378.5	452.1	599.3	709.6	723.3
122.5°	186.4	198.4	210.4	213.4	266.6	337.6	373.1	439.3	571.8	671.2	684.7
125°	202.9	213.8	224.8	227.5	274.0	336.1	367.1	423.4	536.0	620.4	632.8
127.5°	216.3	227.3	238.3	241.1	281.4	335.3	362.1	410.5	507.1	579.6	590.1
130°	223.5	235.3	247.2	250.2	286.8	335.7	360.2	403.2	489.3	553.8	563.4
132.5°	230.8	242.7	254.6	257.6	291.2	336.1	358.5	397.0	474.1	531.8	540.5
135°	241.8	252.6	263.4	266.1	296.0	335.8	355.7	387.9	452.5	500.8	508.3
137.5°	253.0	263.7	274.4	277.1	303.1	337.9	355.2	382.5	437.0	477.9	483.9
140°	262.3	272.2	282.1	284.5	307.5	338.2	353.5	377.1	424.1	459.5	465.2
142.5°	269.5	278.6	287.7	290.0	311.2	339.4	353.5	374.2	415.6	446.6	451.5
145°	280.4	288.4	296.4	298.4	315.9	339.4	351.1	368.1	401.9	427.3	431.0
147.5°	291.4	299.1	306.9	308.8	322.9	341.7	351.1	364.4	391.1	411.0	414.1
150°	298.6	305.6	312.6	314.4	326.6	343.0	351.1	362.4	384.8	401.7	404.2
152.5°	306.0	311.3	316.6	317.9	329.0	343.7	351.1	360.7	379.9	394.3	396.2
155°	317.0	320.9	324.8	325.8	334.3	345.5	351.1	358.7	374.0	385.5	386.7
157.5°	325.1	328.9	332.8	333.7	339.5	347.3	351.1	357.0	368.9	377.8	378.7
160°	330.6	333.6	336.5	337.3	341.9	348.0	351.1	356.2	366.4	374.1	374.5
162.5°	336.1	338.3	340.6	341.1	344.4	348.9	351.1	355.4	364.0	370.4	370.9
165°	342.0	344.0	346.0	346.6	348.1	350.1	351.1	354.2	360.4	365.0	365.5
167.5°	347.5	348.4	349.4	349.7	351.0	352.7	353.5	355.5	359.6	362.6	362.8
170°	351.1	352.0	353.0	353.3	353.4	353.4	353.5	355.5	359.6	362.6	362.6
172.5°	353.0	353.3	353.4	353.5	353.5	353.5	353.5	355.1	358.3	360.7	360.5
175°	355.7	355.7	355.7	355.7	355.0	354.0	353.5	354.5	356.5	358.0	358.0
177.5°	355.7	355.7	355.7	355.7	355.1	354.4	354.0	354.7	356.4	357.6	357.4
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	559.8	558.2	559.8	558.7	559.3	557.7	553.1	551.6	553.1	554.6	554.6
5°	566.5	565.5	566.5	566.5	566.0	564.9	559.8	558.7	559.8	560.3	559.3
7.5°	568.6	567.0	568.6	567.5	567.5	566.5	561.3	560.3	560.8	562.3	560.8
10°	568.6	567.0	568.6	568.0	567.5	566.5	561.3	559.3	559.3	560.8	559.3
12.5°	566.0	564.9	566.0	564.9	564.9	563.9	558.7	556.7	557.2	557.7	555.6
15°	561.9	560.3	561.9	560.8	561.3	559.8	554.1	552.0	552.0	553.1	549.5
17.5°	555.6	553.6	555.6	555.2	554.6	553.6	548.4	546.4	545.9	546.4	543.8
20°	548.4	546.9	548.4	547.9	547.9	545.9	540.7	538.1	538.1	538.1	535.5
22.5°	537.1	535.5	537.1	538.1	538.1	537.5	532.9	529.3	528.3	528.3	525.2
25°	524.1	522.6	524.1	524.1	523.6	524.1	522.6	520.5	519.0	517.4	514.4
27.5°	511.7	510.7	511.7	510.7	511.7	510.2	509.7	509.2	507.1	505.6	501.4
30°	499.3	498.3	499.3	498.3	497.3	496.3	493.6	492.6	494.7	493.6	486.9
32.5°	483.9	482.9	483.9	483.9	482.9	482.9	478.7	477.2	477.7	480.8	474.6
35°	467.9	466.3	467.9	467.3	467.9	466.3	463.7	463.2	461.2	464.8	460.2
37.5°	449.3	447.8	449.3	449.3	449.3	450.3	448.2	446.7	443.6	448.2	444.6
40°	430.2	428.1	430.2	429.7	430.2	431.2	430.2	429.1	426.0	429.7	426.6
42.5°	408.5	407.9	408.5	409.0	409.0	411.0	412.6	410.6	409.5	406.9	409.0
45°	385.2	384.2	385.2	386.2	386.8	387.8	392.5	392.5	390.9	386.8	389.9
47.5°	360.4	357.9	360.4	363.5	363.5	365.1	369.8	373.4	370.8	365.6	367.1
50°	334.1	334.6	334.1	336.2	336.2	341.9	345.5	349.1	351.7	345.5	338.3
52.5°	308.3	307.8	308.3	309.8	311.9	314.5	320.7	324.3	328.4	324.8	313.5
55°	282.4	283.5	282.4	283.0	284.1	285.6	294.8	298.5	306.2	301.6	289.7
57.5°	256.6	255.1	256.6	257.7	258.2	259.7	267.5	274.2	278.9	279.4	264.9
60°	226.7	224.6	226.7	231.4	232.4	233.4	240.6	246.9	250.9	252.5	237.5
62.5°	200.4	196.7	200.4	203.4	205.5	208.1	213.3	222.6	226.1	226.7	205.5
65°	172.5	170.9	172.5	178.6	179.2	182.3	188.0	194.7	202.4	201.4	170.9
67.5°	147.1	147.1	147.1	151.3	154.4	155.9	163.2	166.3	176.1	177.1	142.5
70°	124.0	123.4	124.0	127.0	129.1	132.7	139.4	143.1	150.8	153.4	115.7
72.5°	101.7	101.2	101.7	104.3	106.4	109.5	115.2	119.3	126.0	129.1	89.9
75°	82.1	81.1	82.1	84.2	83.6	87.8	92.4	96.6	102.8	104.8	66.6
77.5°	63.0	63.0	63.0	65.1	65.1	69.2	71.3	76.5	80.1	83.2	49.0
80°	47.0	46.5	47.0	47.5	47.5	49.6	53.2	56.8	59.9	59.9	33.6
82.5°	33.0	32.0	33.0	33.0	33.0	34.1	36.1	37.2	39.3	40.8	21.2
85°	20.6	20.6	20.6	21.2	20.6	21.7	22.2	23.3	23.3	22.2	12.9
87.5°	13.4	12.9	13.4	12.9	12.9	12.4	12.4	12.4	11.9	11.4	7.2
90°	9.1	9.1	9.1	9.1	9.1	12.1	16.2	18.2	15.6	10.5	6.7
92.5°	36.3	29.1	36.3	43.6	45.4	64.3	89.6	102.2	89.7	64.8	46.0
95°	126.7	104.8	126.7	148.5	153.9	202.1	266.4	298.6	252.2	159.4	89.8
97.5°	303.5	261.9	303.5	345.0	355.4	385.9	426.5	446.8	369.4	214.7	98.6
100°	437.2	387.6	437.2	486.7	499.1	496.9	493.9	492.4	406.6	234.8	106.0
102.5°	568.7	526.3	568.7	611.1	621.8	583.0	531.2	505.4	418.3	244.0	113.3
105°	736.5	713.7	736.5	759.3	765.0	678.0	561.9	503.9	419.6	250.9	124.4
107.5°	846.4	851.9	846.4	840.8	839.5	718.0	556.2	475.2	400.9	252.2	140.6
110°	888.3	912.1	888.3	864.5	858.6	722.8	541.8	451.4	384.3	250.2	149.7



TEST NUMBER: P934622

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	892.0	928.5	892.0	855.5	846.4	707.5	522.3	429.7	369.9	250.3	160.6
115°	868.4	919.0	868.4	817.7	805.1	671.3	492.9	403.6	353.3	252.6	177.1
117.5°	818.2	874.3	818.2	762.1	748.1	627.2	466.2	385.7	342.9	257.3	193.1
120°	777.8	832.3	777.8	723.3	709.6	599.3	452.1	378.5	339.4	261.1	202.4
122.5°	738.4	792.3	738.4	684.7	671.2	571.8	439.3	373.1	337.6	266.6	213.4
125°	682.3	731.8	682.3	632.8	620.4	536.0	423.4	367.1	336.1	274.0	227.5
127.5°	631.8	673.6	631.8	590.1	579.6	507.1	410.5	362.1	335.3	281.4	241.1
130°	602.1	640.6	602.1	563.4	553.8	489.3	403.2	360.2	335.7	286.8	250.2
132.5°	575.0	609.6	575.0	540.5	531.8	474.1	397.0	358.5	336.1	291.2	257.6
135°	538.1	567.9	538.1	508.3	500.8	452.5	387.9	355.7	335.8	296.0	266.1
137.5°	508.4	532.8	508.4	483.9	477.9	437.0	382.5	355.2	337.9	303.1	277.1
140°	488.0	510.8	488.0	465.2	459.5	424.1	377.1	353.5	338.2	307.5	284.5
142.5°	471.1	490.7	471.1	451.5	446.6	415.6	374.2	353.5	339.4	311.2	290.0
145°	445.8	460.7	445.8	431.0	427.3	401.9	368.1	351.1	339.4	315.9	298.4
147.5°	426.4	438.7	426.4	414.1	411.0	391.1	364.4	351.1	341.7	322.9	308.8
150°	414.2	424.2	414.2	404.2	401.7	384.8	362.4	351.1	343.0	326.6	314.4
152.5°	403.7	411.3	403.7	396.2	394.3	379.9	360.7	351.1	343.7	329.0	317.9
155°	391.7	396.7	391.7	386.7	385.5	374.0	358.7	351.1	345.5	334.3	325.8
157.5°	382.2	385.7	382.2	378.7	377.8	368.9	357.0	351.1	347.3	339.5	333.7
160°	376.5	378.5	376.5	374.5	374.1	366.4	356.2	351.1	348.0	341.9	337.3
162.5°	372.8	374.8	372.8	370.9	370.4	364.0	355.4	351.1	348.9	344.4	341.1
165°	367.5	369.5	367.5	365.5	365.0	360.4	354.2	351.1	350.1	348.1	346.6
167.5°	363.7	364.5	363.7	362.8	362.6	359.6	355.5	353.5	352.7	351.0	349.7
170°	362.6	362.6	362.6	362.6	362.6	359.6	355.5	353.5	353.4	353.4	353.3
172.5°	359.7	359.0	359.7	360.5	360.7	358.3	355.1	353.5	353.5	353.5	353.5
175°	358.0	358.0	358.0	358.0	358.0	356.5	354.5	353.5	354.0	355.0	355.7
177.5°	356.5	355.7	356.5	357.4	357.6	356.4	354.7	354.0	354.4	355.1	355.7
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



TEST NUMBER: P934622

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	553.6	550.5	550.5	545.3	543.2	541.7	539.2	531.4	529.3	527.2	530.4
5°	558.2	552.6	548.4	539.2	531.4	528.3	518.4	499.9	487.5	478.2	473.0
7.5°	559.3	552.0	544.3	529.8	511.2	503.0	473.0	439.0	429.7	421.4	416.2
10°	558.2	549.9	539.2	517.4	473.6	459.1	429.1	406.9	401.2	399.7	401.2
12.5°	554.6	546.9	531.9	495.7	434.3	424.5	406.9	394.0	393.0	395.5	409.5
15°	548.4	541.2	523.6	466.9	412.6	405.4	393.0	388.3	394.0	412.1	453.9
17.5°	542.2	534.0	512.3	438.4	396.1	390.9	382.2	391.5	423.4	447.8	461.7
20°	534.0	524.1	499.3	417.8	384.2	379.5	375.5	417.3	441.5	450.3	458.1
22.5°	524.1	513.8	481.8	403.3	371.8	368.2	370.8	431.7	441.5	447.8	454.5
25°	511.2	502.4	461.2	391.9	362.0	357.9	367.7	430.2	435.8	437.4	450.8
27.5°	499.3	488.0	439.4	381.6	350.1	348.6	370.3	423.4	427.6	429.1	443.6
30°	484.9	467.9	415.2	370.8	337.7	337.2	370.8	415.2	414.2	418.3	432.7
32.5°	469.9	437.9	387.8	357.4	325.9	325.3	367.1	402.8	401.8	407.4	418.3
35°	456.0	414.6	350.7	341.9	310.8	311.4	358.4	388.3	388.8	394.0	400.7
37.5°	441.5	394.5	309.8	324.8	296.4	296.4	346.5	374.9	373.9	375.5	384.7
40°	424.5	363.1	273.7	302.6	283.0	281.4	332.0	360.4	356.8	356.4	369.2
42.5°	406.4	328.4	246.9	273.2	267.5	265.4	314.5	342.9	336.2	337.7	354.3
45°	386.8	319.2	226.1	230.8	251.5	249.9	295.4	322.8	318.1	322.2	339.3
47.5°	367.1	300.5	219.4	191.6	234.5	233.9	274.2	303.1	300.5	304.7	322.8
50°	340.3	279.9	219.0	164.2	215.4	217.4	248.9	284.1	284.1	287.7	306.8
52.5°	305.7	254.6	198.8	148.7	193.1	199.4	226.7	267.5	268.5	272.1	289.2
55°	274.2	228.2	184.3	136.8	166.8	180.3	205.0	250.5	252.5	256.1	271.7
57.5°	245.3	190.0	181.3	122.9	142.5	155.5	185.9	233.9	234.9	238.1	253.0
60°	214.3	137.4	166.3	108.0	121.4	131.1	168.3	214.3	217.9	220.0	232.9
62.5°	179.2	99.6	150.8	97.6	111.0	113.1	153.9	195.7	200.4	201.9	209.7
65°	127.6	83.6	128.1	88.9	100.2	100.7	138.4	176.6	180.7	183.3	189.0
67.5°	86.2	68.1	97.6	80.5	91.9	92.4	123.4	154.4	160.1	162.2	165.8
70°	59.9	45.4	72.3	71.8	82.6	83.6	107.4	134.3	139.4	141.0	143.1
72.5°	43.9	36.7	59.9	64.5	72.8	73.8	90.9	111.6	116.7	118.3	119.3
75°	33.6	38.7	48.5	56.3	62.0	62.4	74.4	90.9	94.5	95.6	96.0
77.5°	26.9	36.1	35.7	45.4	50.6	49.6	58.4	70.2	73.3	73.3	73.3
80°	20.2	28.4	26.9	32.6	37.2	36.1	41.8	50.1	51.1	52.1	51.7
82.5°	14.9	18.1	18.1	20.6	24.8	23.8	27.9	32.6	32.6	32.6	33.6
85°	9.3	10.3	8.2	10.9	13.9	13.4	15.5	17.6	18.1	18.1	17.0
87.5°	5.7	4.6	2.6	4.2	6.2	6.2	7.2	7.8	7.2	7.2	7.2
90°	6.2	4.3	2.4	4.3	6.2	6.7	10.5	15.6	18.2	16.2	12.1
92.5°	42.0	25.8	9.5	25.8	42.0	46.0	64.8	89.7	102.2	89.6	64.3
95°	82.4	52.7	22.9	52.7	82.4	89.8	159.4	252.2	298.6	266.4	202.1
97.5°	92.0	65.8	39.7	65.8	92.0	98.6	214.7	369.4	446.8	426.5	385.9
100°	100.0	76.2	52.5	76.2	100.0	106.0	234.8	406.6	492.4	493.9	496.9
102.5°	107.8	85.7	63.5	85.7	107.8	113.3	244.0	418.3	505.4	531.2	583.0
105°	119.7	100.9	82.1	100.9	119.7	124.4	250.9	419.6	503.9	561.9	678.0
107.5°	136.2	118.7	101.2	118.7	136.2	140.6	252.2	400.9	475.2	556.2	718.0
110°	145.8	129.9	114.1	129.9	145.8	149.7	250.2	384.3	451.4	541.8	722.8



TEST NUMBER: P934622

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	156.8	141.8	126.7	141.8	156.8	160.6	250.3	369.9	429.7	522.3	707.5
115°	173.6	159.7	145.8	159.7	173.6	177.1	252.6	353.3	403.6	492.9	671.3
117.5°	190.0	177.3	164.7	177.3	190.0	193.1	257.3	342.9	385.7	466.2	627.2
120°	199.4	187.6	175.7	187.6	199.4	202.4	261.1	339.4	378.5	452.1	599.3
122.5°	210.4	198.4	186.4	198.4	210.4	213.4	266.6	337.6	373.1	439.3	571.8
125°	224.8	213.8	202.9	213.8	224.8	227.5	274.0	336.1	367.1	423.4	536.0
127.5°	238.3	227.3	216.3	227.3	238.3	241.1	281.4	335.3	362.1	410.5	507.1
130°	247.2	235.3	223.5	235.3	247.2	250.2	286.8	335.7	360.2	403.2	489.3
132.5°	254.6	242.7	230.8	242.7	254.6	257.6	291.2	336.1	358.5	397.0	474.1
135°	263.4	252.6	241.8	252.6	263.4	266.1	296.0	335.8	355.7	387.9	452.5
137.5°	274.4	263.7	253.0	263.7	274.4	277.1	303.1	337.9	355.2	382.5	437.0
140°	282.1	272.2	262.3	272.2	282.1	284.5	307.5	338.2	353.5	377.1	424.1
142.5°	287.7	278.6	269.5	278.6	287.7	290.0	311.2	339.4	353.5	374.2	415.6
145°	296.4	288.4	280.4	288.4	296.4	298.4	315.9	339.4	351.1	368.1	401.9
147.5°	306.9	299.1	291.4	299.1	306.9	308.8	322.9	341.7	351.1	364.4	391.1
150°	312.6	305.6	298.6	305.6	312.6	314.4	326.6	343.0	351.1	362.4	384.8
152.5°	316.6	311.3	306.0	311.3	316.6	317.9	329.0	343.7	351.1	360.7	379.9
155°	324.8	320.9	317.0	320.9	324.8	325.8	334.3	345.5	351.1	358.7	374.0
157.5°	332.8	328.9	325.1	328.9	332.8	333.7	339.5	347.3	351.1	357.0	368.9
160°	336.5	333.6	330.6	333.6	336.5	337.3	341.9	348.0	351.1	356.2	366.4
162.5°	340.6	338.3	336.1	338.3	340.6	341.1	344.4	348.9	351.1	355.4	364.0
165°	346.0	344.0	342.0	344.0	346.0	346.6	348.1	350.1	351.1	354.2	360.4
167.5°	349.4	348.4	347.5	348.4	349.4	349.7	351.0	352.7	353.5	355.5	359.6
170°	353.0	352.0	351.1	352.0	353.0	353.3	353.4	353.4	353.5	355.5	359.6
172.5°	353.4	353.3	353.0	353.3	353.4	353.5	353.5	353.5	353.5	355.1	358.3
175°	355.7	355.7	355.7	355.7	355.7	355.7	355.0	354.0	353.5	354.5	356.5
177.5°	355.7	355.7	355.7	355.7	355.7	355.7	355.1	354.4	354.0	354.7	356.4
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



TEST NUMBER: P934622

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	526.8	525.2	527.2	521.6	527.2	525.2	526.8	530.4	527.2	529.3	531.4
5°	462.2	459.6	451.4	444.6	451.4	459.6	462.2	473.0	478.2	487.5	499.9
7.5°	413.1	411.0	409.0	404.9	409.0	411.0	413.1	416.2	421.4	429.7	439.0
10°	402.2	402.8	405.9	405.4	405.9	402.8	402.2	401.2	399.7	401.2	406.9
12.5°	430.2	434.8	451.8	450.8	451.8	434.8	430.2	409.5	395.5	393.0	394.0
15°	462.2	463.7	467.3	467.9	467.3	463.7	462.2	453.9	412.1	394.0	388.3
17.5°	465.3	465.8	468.4	468.4	468.4	465.8	465.3	461.7	447.8	423.4	391.5
20°	462.7	463.7	468.9	469.9	468.9	463.7	462.7	458.1	450.3	441.5	417.3
22.5°	461.7	463.7	467.9	467.3	467.9	463.7	461.7	454.5	447.8	441.5	431.7
25°	456.5	456.5	457.0	457.5	457.0	456.5	456.5	450.8	437.4	435.8	430.2
27.5°	445.7	446.7	449.8	449.3	449.8	446.7	445.7	443.6	429.1	427.6	423.4
30°	435.8	434.8	432.2	430.2	432.2	434.8	435.8	432.7	418.3	414.2	415.2
32.5°	419.3	416.7	414.2	412.6	414.2	416.7	419.3	418.3	407.4	401.8	402.8
35°	399.7	400.2	399.7	398.2	399.7	400.2	399.7	400.7	394.0	388.8	388.3
37.5°	385.8	386.8	386.2	384.2	386.2	386.8	385.8	384.7	375.5	373.9	374.9
40°	371.3	371.8	371.3	369.8	371.3	371.8	371.3	369.2	356.4	356.8	360.4
42.5°	357.4	356.8	355.3	354.3	355.3	356.8	357.4	354.3	337.7	336.2	342.9
45°	341.3	341.9	338.7	337.2	338.7	341.9	341.3	339.3	322.2	318.1	322.8
47.5°	325.3	325.3	322.8	321.2	322.8	325.3	325.3	322.8	304.7	300.5	303.1
50°	308.3	307.8	304.2	303.6	304.2	307.8	308.3	306.8	287.7	284.1	284.1
52.5°	288.7	288.7	289.2	290.2	289.2	288.7	288.7	289.2	272.1	268.5	267.5
55°	271.7	272.1	275.7	276.8	275.7	272.1	271.7	271.7	256.1	252.5	250.5
57.5°	254.1	254.1	256.6	256.6	256.6	254.1	254.1	253.0	238.1	234.9	233.9
60°	233.9	234.9	237.0	236.5	237.0	234.9	233.9	232.9	220.0	217.9	214.3
62.5°	212.8	213.8	214.3	213.3	214.3	213.8	212.8	209.7	201.9	200.4	195.7
65°	190.6	191.6	192.1	191.0	192.1	191.6	190.6	189.0	183.3	180.7	176.6
67.5°	167.9	167.3	166.8	168.9	166.8	167.3	167.9	165.8	162.2	160.1	154.4
70°	144.6	144.6	144.1	145.1	144.1	144.6	144.6	143.1	141.0	139.4	134.3
72.5°	119.8	119.3	121.4	119.8	121.4	119.3	119.8	119.3	118.3	116.7	111.6
75°	95.6	96.6	95.6	97.1	95.6	96.6	95.6	96.0	95.6	94.5	90.9
77.5°	72.8	73.8	72.8	72.8	72.8	73.8	72.8	73.3	73.3	73.3	70.2
80°	51.7	51.1	51.1	50.6	51.1	51.1	51.7	51.7	52.1	51.1	50.1
82.5°	33.0	32.6	32.6	33.6	32.6	32.6	33.0	33.6	32.6	32.6	32.6
85°	18.1	18.6	17.6	17.6	17.6	18.6	18.1	17.0	18.1	18.1	17.6
87.5°	6.7	6.2	6.2	6.2	6.2	6.2	6.7	7.2	7.2	7.2	7.8
90°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	12.1	16.2	18.2	15.6
92.5°	45.4	43.6	36.3	29.1	36.3	43.6	45.4	64.3	89.6	102.2	89.7
95°	153.9	148.5	126.7	104.8	126.7	148.5	153.9	202.1	266.4	298.6	252.2
97.5°	355.4	345.0	303.5	261.9	303.5	345.0	355.4	385.9	426.5	446.8	369.4
100°	499.1	486.7	437.2	387.6	437.2	486.7	499.1	496.9	493.9	492.4	406.6
102.5°	621.8	611.1	568.7	526.3	568.7	611.1	621.8	583.0	531.2	505.4	418.3
105°	765.0	759.3	736.5	713.7	736.5	759.3	765.0	678.0	561.9	503.9	419.6
107.5°	839.5	840.8	846.4	851.9	846.4	840.8	839.5	718.0	556.2	475.2	400.9
110°	858.6	864.5	888.3	912.1	888.3	864.5	858.6	722.8	541.8	451.4	384.3



TEST NUMBER: P934622

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	846.4	855.5	892.0	928.5	892.0	855.5	846.4	707.5	522.3	429.7	369.9
115°	805.1	817.7	868.4	919.0	868.4	817.7	805.1	671.3	492.9	403.6	353.3
117.5°	748.1	762.1	818.2	874.3	818.2	762.1	748.1	627.2	466.2	385.7	342.9
120°	709.6	723.3	777.8	832.3	777.8	723.3	709.6	599.3	452.1	378.5	339.4
122.5°	671.2	684.7	738.4	792.3	738.4	684.7	671.2	571.8	439.3	373.1	337.6
125°	620.4	632.8	682.3	731.8	682.3	632.8	620.4	536.0	423.4	367.1	336.1
127.5°	579.6	590.1	631.8	673.6	631.8	590.1	579.6	507.1	410.5	362.1	335.3
130°	553.8	563.4	602.1	640.6	602.1	563.4	553.8	489.3	403.2	360.2	335.7
132.5°	531.8	540.5	575.0	609.6	575.0	540.5	531.8	474.1	397.0	358.5	336.1
135°	500.8	508.3	538.1	567.9	538.1	508.3	500.8	452.5	387.9	355.7	335.8
137.5°	477.9	483.9	508.4	532.8	508.4	483.9	477.9	437.0	382.5	355.2	337.9
140°	459.5	465.2	488.0	510.8	488.0	465.2	459.5	424.1	377.1	353.5	338.2
142.5°	446.6	451.5	471.1	490.7	471.1	451.5	446.6	415.6	374.2	353.5	339.4
145°	427.3	431.0	445.8	460.7	445.8	431.0	427.3	401.9	368.1	351.1	339.4
147.5°	411.0	414.1	426.4	438.7	426.4	414.1	411.0	391.1	364.4	351.1	341.7
150°	401.7	404.2	414.2	424.2	414.2	404.2	401.7	384.8	362.4	351.1	343.0
152.5°	394.3	396.2	403.7	411.3	403.7	396.2	394.3	379.9	360.7	351.1	343.7
155°	385.5	386.7	391.7	396.7	391.7	386.7	385.5	374.0	358.7	351.1	345.5
157.5°	377.8	378.7	382.2	385.7	382.2	378.7	377.8	368.9	357.0	351.1	347.3
160°	374.1	374.5	376.5	378.5	376.5	374.5	374.1	366.4	356.2	351.1	348.0
162.5°	370.4	370.9	372.8	374.8	372.8	370.9	370.4	364.0	355.4	351.1	348.9
165°	365.0	365.5	367.5	369.5	367.5	365.5	365.0	360.4	354.2	351.1	350.1
167.5°	362.6	362.8	363.7	364.5	363.7	362.8	362.6	359.6	355.5	353.5	352.7
170°	362.6	362.6	362.6	362.6	362.6	362.6	362.6	359.6	355.5	353.5	353.4
172.5°	360.7	360.5	359.7	359.0	359.7	360.5	360.7	358.3	355.1	353.5	353.5
175°	358.0	358.0	358.0	358.0	358.0	358.0	358.0	356.5	354.5	353.5	354.0
177.5°	357.6	357.4	356.5	355.7	356.5	357.4	357.6	356.4	354.7	354.0	354.4
180°	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7	355.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	545.9	545.9	545.9	545.9	545.9
2.5°	539.2	541.7	543.2	545.3	550.5
5°	518.4	528.3	531.4	539.2	548.4
7.5°	473.0	503.0	511.2	529.8	544.3
10°	429.1	459.1	473.6	517.4	539.2
12.5°	406.9	424.5	434.3	495.7	531.9
15°	393.0	405.4	412.6	466.9	523.6
17.5°	382.2	390.9	396.1	438.4	512.3
20°	375.5	379.5	384.2	417.8	499.3
22.5°	370.8	368.2	371.8	403.3	481.8
25°	367.7	357.9	362.0	391.9	461.2
27.5°	370.3	348.6	350.1	381.6	439.4
30°	370.8	337.2	337.7	370.8	415.2
32.5°	367.1	325.3	325.9	357.4	387.8
35°	358.4	311.4	310.8	341.9	350.7
37.5°	346.5	296.4	296.4	324.8	309.8
40°	332.0	281.4	283.0	302.6	273.7
42.5°	314.5	265.4	267.5	273.2	246.9
45°	295.4	249.9	251.5	230.8	226.1
47.5°	274.2	233.9	234.5	191.6	219.4
50°	248.9	217.4	215.4	164.2	219.0
52.5°	226.7	199.4	193.1	148.7	198.8
55°	205.0	180.3	166.8	136.8	184.3
57.5°	185.9	155.5	142.5	122.9	181.3
60°	168.3	131.1	121.4	108.0	166.3
62.5°	153.9	113.1	111.0	97.6	150.8
65°	138.4	100.7	100.2	88.9	128.1
67.5°	123.4	92.4	91.9	80.5	97.6
70°	107.4	83.6	82.6	71.8	72.3
72.5°	90.9	73.8	72.8	64.5	59.9
75°	74.4	62.4	62.0	56.3	48.5
77.5°	58.4	49.6	50.6	45.4	35.7
80°	41.8	36.1	37.2	32.6	26.9
82.5°	27.9	23.8	24.8	20.6	18.1
85°	15.5	13.4	13.9	10.9	8.2
87.5°	7.2	6.2	6.2	4.2	2.6
90°	10.5	6.7	6.2	4.3	2.4
92.5°	64.8	46.0	42.0	25.8	9.5
95°	159.4	89.8	82.4	52.7	22.9
97.5°	214.7	98.6	92.0	65.8	39.7
100°	234.8	106.0	100.0	76.2	52.5
102.5°	244.0	113.3	107.8	85.7	63.5
105°	250.9	124.4	119.7	100.9	82.1
107.5°	252.2	140.6	136.2	118.7	101.2
110°	250.2	149.7	145.8	129.9	114.1



TEST NUMBER: P934622

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	250.3	160.6	156.8	141.8	126.7
115°	252.6	177.1	173.6	159.7	145.8
117.5°	257.3	193.1	190.0	177.3	164.7
120°	261.1	202.4	199.4	187.6	175.7
122.5°	266.6	213.4	210.4	198.4	186.4
125°	274.0	227.5	224.8	213.8	202.9
127.5°	281.4	241.1	238.3	227.3	216.3
130°	286.8	250.2	247.2	235.3	223.5
132.5°	291.2	257.6	254.6	242.7	230.8
135°	296.0	266.1	263.4	252.6	241.8
137.5°	303.1	277.1	274.4	263.7	253.0
140°	307.5	284.5	282.1	272.2	262.3
142.5°	311.2	290.0	287.7	278.6	269.5
145°	315.9	298.4	296.4	288.4	280.4
147.5°	322.9	308.8	306.9	299.1	291.4
150°	326.6	314.4	312.6	305.6	298.6
152.5°	329.0	317.9	316.6	311.3	306.0
155°	334.3	325.8	324.8	320.9	317.0
157.5°	339.5	333.7	332.8	328.9	325.1
160°	341.9	337.3	336.5	333.6	330.6
162.5°	344.4	341.1	340.6	338.3	336.1
165°	348.1	346.6	346.0	344.0	342.0
167.5°	351.0	349.7	349.4	348.4	347.5
170°	353.4	353.3	353.0	352.0	351.1
172.5°	353.5	353.5	353.4	353.3	353.0
175°	355.0	355.7	355.7	355.7	355.7
177.5°	355.1	355.7	355.7	355.7	355.7
180°	355.7	355.7	355.7	355.7	355.7



TEST NUMBER: P934622
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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	9.21	9.98	10.27	11.03	12.47	12.01	12.77	13.06	13.83	15.26
	3H	9.68	10.37	10.75	11.43	12.88	13.34	14.02	14.40	15.09	16.54
	4H	9.87	10.52	10.94	11.59	13.04	13.77	14.42	14.85	15.49	16.95
	6H	9.98	10.58	11.07	11.65	13.12	14.04	14.64	15.13	15.71	17.18
	8H	9.98	10.55	11.07	11.64	13.10	14.11	14.68	15.20	15.77	17.23
	12H	9.95	10.49	11.04	11.57	13.06	14.14	14.68	15.23	15.76	17.25
4H	2H	10.23	10.87	11.31	11.94	13.40	12.41	13.06	13.49	14.13	15.58
	3H	11.24	11.78	12.33	12.88	14.35	13.90	14.44	14.99	15.53	17.00
	4H	11.52	12.01	12.61	13.10	14.59	14.41	14.91	15.51	15.99	17.49
	6H	11.64	12.06	12.74	13.17	14.65	14.77	15.19	15.87	16.30	17.78
	8H	11.64	12.04	12.74	13.14	14.64	14.86	15.26	15.97	16.36	17.86
	12H	11.60	11.96	12.72	13.07	14.58	14.91	15.27	16.03	16.38	17.89
8H	4H	11.96	12.35	13.06	13.45	14.95	14.53	14.93	15.63	16.03	17.53
	6H	12.21	12.54	13.34	13.68	15.18	14.96	15.28	16.08	16.43	17.92
	8H	12.26	12.54	13.39	13.67	15.18	15.10	15.39	16.23	16.51	18.03
	12H	12.24	12.49	13.37	13.61	15.16	15.19	15.44	16.32	16.56	18.12
12H	4H	11.96	12.32	13.08	13.43	14.94	14.49	14.85	15.61	15.96	17.47
	6H	12.27	12.56	13.40	13.68	15.20	14.95	15.24	16.08	16.36	17.88
	8H	12.33	12.59	13.47	13.71	15.26	15.10	15.36	16.24	16.48	18.03