

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: P934670

Luminaire Tested: SQ4-FA-075U-050D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934670
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

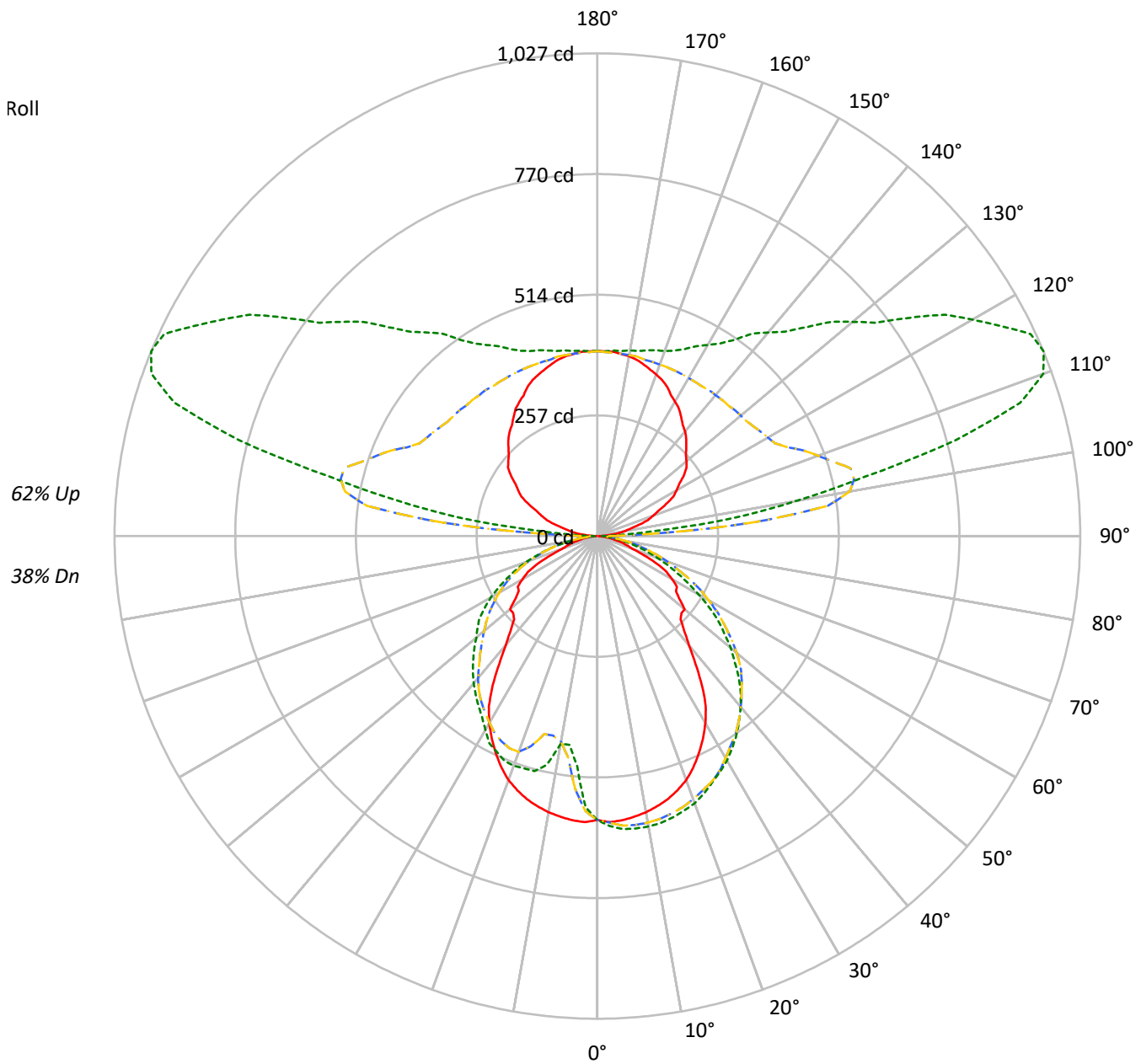
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.6 lumens
Efficiency: N/A
Efficacy: 119.7 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: P934670
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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°	5605	5605	5605	5605
5°	5640	5658	5640	4448
10°	5597	5573	5597	3985
15°	5529	5452	5529	4553
20°	5407	5309	5407	4562
25°	5165	5101	5165	4466
30°	4852	4927	4852	4253
35°	4320	4708	4320	4020
40°	3593	4450	3593	3843
45°	3203	4148	3203	3641
50°	3397	3789	3397	3437
55°	3187	3400	3187	3320
60°	3273	2887	3273	3041
65°	2953	2387	2953	2668
70°	2031	1903	2031	2237
75°	1761	1406	1761	1684
80°	1390	931	1390	1012
85°	754	491	754	418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4921 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.3
10°-20°	154.8	3.8
20°-30°	239.3	5.8
30°-40°	285.7	6.9
40°-50°	287.3	7.0
50°-60°	250.0	6.1
60°-70°	177.3	4.3
70°-80°	93.8	2.3
80°-90°	24.9	0.6
90°-100°	191.8	4.7
100°-110°	504.3	12.2
110°-120°	522.9	12.7
120°-130°	419.5	10.2
130°-140°	329.1	8.0
140°-150°	252.6	6.1
150°-160°	181.9	4.4
160°-170°	111.3	2.7
170°-180°	37.6	0.9
0°-30°	448.6	10.9
0°-40°	734.2	17.8
0°-60°	1271.6	30.9
0°-90°	1567.5	38.1
90°-120°	1219.1	29.6
90°-150°	2220.3	53.9
90°-180°	2551.0	61.9
0°-180°	4118.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	604	604	604	604	604	
5°	607	626	607	492	607	58
15°	579	620	579	518	579	163
25°	510	578	510	506	510	234
35°	388	516	388	441	388	240
45°	250	425	250	373	250	200
55°	204	314	204	306	204	187
65°	142	189	142	211	142	135
75°	54	90	54	107	54	56
85°	9	23	9	19	9	12
90°	3	10	3	10	3	3
95°	25	116	25	116	25	28
105°	91	790	91	790	91	96
115°	161	1017	161	1017	161	159
125°	224	810	224	810	224	199
135°	268	628	268	628	268	207
145°	310	510	310	510	310	194
155°	351	439	351	439	351	161
165°	378	409	378	409	378	107
175°	394	396	394	396	394	37
180°	394	394	394	394	394	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	609.1	609.1	612.5	613.7	613.7	612.0	610.3	612.0	617.1	618.8	618.2
5°	606.8	611.4	617.7	618.8	620.0	619.4	618.2	619.4	625.1	626.2	626.8
7.5°	602.3	610.8	618.8	620.5	622.2	620.5	620.0	621.1	626.8	627.9	627.9
10°	596.6	608.5	617.7	618.8	620.5	618.8	618.8	621.1	626.8	627.9	628.5
12.5°	588.6	605.1	613.7	614.8	617.1	616.5	616.0	618.2	624.0	625.1	625.1
15°	579.4	598.8	606.8	608.0	612.0	610.8	610.8	613.1	619.4	621.1	620.5
17.5°	566.8	590.9	600.0	601.7	604.6	604.0	604.6	606.8	612.5	613.7	614.3
20°	552.5	580.0	590.9	592.6	595.4	595.4	595.4	598.3	604.0	606.3	606.3
22.5°	533.1	568.5	580.0	581.1	584.6	584.6	585.7	589.7	594.8	595.4	595.4
25°	510.3	555.9	565.6	569.1	572.5	574.2	576.0	578.3	580.0	579.4	580.0
27.5°	486.2	540.0	552.5	554.8	559.4	561.1	563.4	563.9	564.5	566.2	565.1
30°	459.4	517.7	536.5	538.8	546.2	547.4	545.1	546.2	549.1	550.2	551.4
32.5°	429.2	484.5	520.0	525.1	532.0	528.6	528.0	529.7	534.3	534.3	535.4
35°	388.0	458.8	504.6	509.2	514.3	510.3	512.6	513.1	516.0	517.7	517.1
37.5°	342.8	436.6	488.5	491.9	495.9	490.8	494.2	495.9	498.2	497.1	497.1
40°	302.8	401.7	469.7	472.0	475.4	471.4	474.8	476.0	477.1	476.0	475.4
42.5°	273.2	363.4	449.7	452.6	450.3	453.1	454.3	456.6	454.8	452.6	452.6
45°	250.2	353.2	428.0	431.4	428.0	432.6	434.3	434.3	429.2	428.0	427.4
47.5°	242.8	332.5	406.2	406.2	404.5	410.2	413.1	409.1	404.0	402.2	402.2
50°	242.3	309.7	376.6	374.3	382.3	389.1	386.3	382.3	378.3	372.0	372.0
52.5°	220.0	281.7	338.2	346.8	359.4	363.4	358.9	354.9	348.0	345.1	342.8
55°	204.0	252.5	303.4	320.5	333.7	338.8	330.2	326.2	316.0	314.3	313.1
57.5°	200.6	210.3	271.4	293.1	309.1	308.6	303.4	296.0	287.4	285.7	285.2
60°	184.0	152.0	237.1	262.8	279.4	277.7	273.2	266.2	258.2	257.1	256.0
62.5°	166.8	110.2	198.3	227.4	250.8	250.2	246.3	236.0	230.3	227.4	225.1
65°	141.7	92.5	141.2	189.1	222.9	224.0	215.4	208.0	201.7	198.3	197.7
67.5°	108.0	75.4	95.4	157.7	196.0	194.9	184.0	180.5	172.5	170.8	167.4
70°	80.0	50.3	66.3	128.0	169.7	166.8	158.3	154.3	146.9	142.9	140.6
72.5°	66.3	40.6	48.6	99.4	142.9	139.4	132.0	127.5	121.2	117.7	115.4
75°	53.7	42.9	37.1	73.7	116.0	113.7	106.8	102.2	97.1	92.5	93.1
77.5°	39.4	40.0	29.7	54.3	92.0	88.6	84.6	78.9	76.6	72.0	72.0
80°	29.7	31.4	22.3	37.1	66.3	66.3	62.9	58.9	54.9	52.6	52.6
82.5°	20.0	20.0	16.5	23.4	45.2	43.5	41.2	40.0	37.7	36.6	36.6
85°	9.1	11.4	10.3	14.3	24.5	25.7	25.7	24.5	24.0	22.8	23.4
87.5°	2.9	5.1	6.3	8.0	12.6	13.1	13.7	13.7	13.7	14.3	14.3
90°	2.6	4.8	6.9	7.4	11.7	17.3	20.1	17.9	13.4	10.1	10.1
92.5°	10.6	28.5	46.4	50.9	71.7	99.3	113.1	99.1	71.1	50.2	48.2
95°	25.4	58.3	91.2	99.3	176.4	279.0	330.4	294.8	223.6	170.3	164.3
97.5°	43.9	72.8	101.8	109.1	237.5	408.8	494.4	471.9	427.0	393.3	381.8
100°	58.1	84.3	110.7	117.2	259.8	449.9	544.9	546.5	549.8	552.3	538.5
102.5°	70.3	94.8	119.3	125.4	270.0	462.8	559.2	587.8	645.0	688.0	676.2
105°	90.8	111.6	132.4	137.6	277.6	464.3	557.5	621.8	750.2	846.5	840.2
107.5°	112.0	131.4	150.7	155.6	279.0	443.6	525.9	615.4	794.5	928.9	930.4
110°	126.3	143.7	161.3	165.6	276.9	425.2	499.4	599.6	799.8	950.0	956.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	140.2	156.9	173.6	177.7	277.0	409.3	475.4	577.9	782.8	936.5	946.7
115°	161.4	176.7	192.1	196.0	279.5	390.9	446.6	545.4	742.8	890.9	904.8
117.5°	182.2	196.2	210.2	213.7	284.7	379.4	426.8	515.9	694.0	827.7	843.2
120°	194.4	207.5	220.7	224.0	288.9	375.6	418.8	500.3	663.1	785.2	800.3
122.5°	206.3	219.6	232.8	236.1	295.0	373.5	412.8	486.1	632.7	742.7	757.6
125°	224.5	236.6	248.7	251.7	303.2	371.9	406.2	468.5	593.1	686.5	700.2
127.5°	239.3	251.5	263.7	266.8	311.4	371.0	400.7	454.2	561.1	641.3	652.9
130°	247.3	260.4	273.5	276.8	317.4	371.5	398.6	446.2	541.4	612.8	623.4
132.5°	255.4	268.6	281.7	285.0	322.2	371.9	396.7	439.3	524.6	588.5	598.0
135°	267.5	279.5	291.5	294.5	327.5	371.6	393.5	429.2	500.6	554.1	562.4
137.5°	280.0	291.8	303.7	306.6	335.4	373.9	393.0	423.2	483.5	528.8	535.5
140°	290.3	301.2	312.1	314.8	340.3	374.2	391.2	417.2	469.3	508.4	514.7
142.5°	298.2	308.3	318.3	320.9	344.3	375.6	391.2	414.1	459.8	494.2	499.6
145°	310.3	319.2	327.9	330.2	349.6	375.6	388.5	407.3	444.7	472.8	476.9
147.5°	322.5	331.0	339.6	341.7	357.3	378.1	388.5	403.3	432.7	454.8	458.2
150°	330.4	338.2	345.9	347.9	361.4	379.5	388.5	401.0	425.8	444.5	447.2
152.5°	338.6	344.5	350.3	351.8	364.1	380.3	388.5	399.2	420.4	436.3	438.4
155°	350.8	355.1	359.4	360.5	369.9	382.3	388.5	396.9	413.8	426.5	427.9
157.5°	359.7	364.0	368.2	369.3	375.6	384.3	388.5	395.1	408.2	418.1	419.0
160°	365.8	369.1	372.3	373.2	378.3	385.1	388.5	394.1	405.5	413.9	414.4
162.5°	371.9	374.4	376.8	377.4	381.1	386.0	388.5	393.3	402.7	409.9	410.4
165°	378.5	380.7	382.9	383.5	385.2	387.4	388.5	391.9	398.7	403.8	404.4
167.5°	384.5	385.5	386.6	386.9	388.3	390.2	391.2	393.4	397.9	401.2	401.5
170°	388.5	389.5	390.6	390.9	391.0	391.1	391.2	393.4	397.9	401.2	401.2
172.5°	390.6	390.9	391.1	391.2	391.2	391.2	391.2	392.9	396.4	399.1	398.9
175°	393.5	393.5	393.5	393.5	392.8	391.7	391.2	392.3	394.5	396.2	396.2
177.5°	393.5	393.5	393.5	393.5	392.9	392.1	391.7	392.5	394.3	395.7	395.4
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	619.4	617.7	619.4	618.2	618.8	617.1	612.0	610.3	612.0	613.7	613.7
5°	626.8	625.7	626.8	626.8	626.2	625.1	619.4	618.2	619.4	620.0	618.8
7.5°	629.1	627.4	629.1	627.9	627.9	626.8	621.1	620.0	620.5	622.2	620.5
10°	629.1	627.4	629.1	628.5	627.9	626.8	621.1	618.8	618.8	620.5	618.8
12.5°	626.2	625.1	626.2	625.1	625.1	624.0	618.2	616.0	616.5	617.1	614.8
15°	621.7	620.0	621.7	620.5	621.1	619.4	613.1	610.8	610.8	612.0	608.0
17.5°	614.8	612.5	614.8	614.3	613.7	612.5	606.8	604.6	604.0	604.6	601.7
20°	606.8	605.1	606.8	606.3	606.3	604.0	598.3	595.4	595.4	595.4	592.6
22.5°	594.3	592.6	594.3	595.4	595.4	594.8	589.7	585.7	584.6	584.6	581.1
25°	580.0	578.3	580.0	580.0	579.4	580.0	578.3	576.0	574.2	572.5	569.1
27.5°	566.2	565.1	566.2	565.1	566.2	564.5	563.9	563.4	561.1	559.4	554.8
30°	552.5	551.4	552.5	551.4	550.2	549.1	546.2	545.1	547.4	546.2	538.8
32.5°	535.4	534.3	535.4	535.4	534.3	534.3	529.7	528.0	528.6	532.0	525.1
35°	517.7	516.0	517.7	517.1	517.7	516.0	513.1	512.6	510.3	514.3	509.2
37.5°	497.1	495.4	497.1	497.1	497.1	498.2	495.9	494.2	490.8	495.9	491.9
40°	476.0	473.7	476.0	475.4	476.0	477.1	476.0	474.8	471.4	475.4	472.0
42.5°	452.0	451.4	452.0	452.6	452.6	454.8	456.6	454.3	453.1	450.3	452.6
45°	426.3	425.1	426.3	427.4	428.0	429.2	434.3	434.3	432.6	428.0	431.4
47.5°	398.8	396.0	398.8	402.2	402.2	404.0	409.1	413.1	410.2	404.5	406.2
50°	369.7	370.3	369.7	372.0	372.0	378.3	382.3	386.3	389.1	382.3	374.3
52.5°	341.1	340.5	341.1	342.8	345.1	348.0	354.9	358.9	363.4	359.4	346.8
55°	312.5	313.7	312.5	313.1	314.3	316.0	326.2	330.2	338.8	333.7	320.5
57.5°	284.0	282.3	284.0	285.2	285.7	287.4	296.0	303.4	308.6	309.1	293.1
60°	250.8	248.5	250.8	256.0	257.1	258.2	266.2	273.2	277.7	279.4	262.8
62.5°	221.7	217.7	221.7	225.1	227.4	230.3	236.0	246.3	250.2	250.8	227.4
65°	190.8	189.1	190.8	197.7	198.3	201.7	208.0	215.4	224.0	222.9	189.1
67.5°	162.8	162.8	162.8	167.4	170.8	172.5	180.5	184.0	194.9	196.0	157.7
70°	137.2	136.6	137.2	140.6	142.9	146.9	154.3	158.3	166.8	169.7	128.0
72.5°	112.5	112.0	112.5	115.4	117.7	121.2	127.5	132.0	139.4	142.9	99.4
75°	90.8	89.7	90.8	93.1	92.5	97.1	102.2	106.8	113.7	116.0	73.7
77.5°	69.7	69.7	69.7	72.0	72.0	76.6	78.9	84.6	88.6	92.0	54.3
80°	52.0	51.5	52.0	52.6	52.6	54.9	58.9	62.9	66.3	66.3	37.1
82.5°	36.6	35.4	36.6	36.6	36.6	37.7	40.0	41.2	43.5	45.2	23.4
85°	22.8	22.8	22.8	23.4	22.8	24.0	24.5	25.7	25.7	24.5	14.3
87.5°	14.8	14.3	14.8	14.3	14.3	13.7	13.7	13.7	13.1	12.6	8.0
90°	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.1	17.3	11.7	7.4
92.5°	40.2	32.2	40.2	48.2	50.2	71.1	99.1	113.1	99.3	71.7	50.9
95°	140.2	116.0	140.2	164.3	170.3	223.6	294.8	330.4	279.0	176.4	99.3
97.5°	335.8	289.8	335.8	381.8	393.3	427.0	471.9	494.4	408.8	237.5	109.1
100°	483.8	428.9	483.8	538.5	552.3	549.8	546.5	544.9	449.9	259.8	117.2
102.5°	629.3	582.3	629.3	676.2	688.0	645.0	587.8	559.2	462.8	270.0	125.4
105°	814.9	789.7	814.9	840.2	846.5	750.2	621.8	557.5	464.3	277.6	137.6
107.5°	936.5	942.7	936.5	930.4	928.9	794.5	615.4	525.9	443.6	279.0	155.6
110°	982.9	1009.2	982.9	956.5	950.0	799.8	599.6	499.4	425.2	276.9	165.6



TEST NUMBER: P934670

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	987.0	1027.4	987.0	946.7	936.5	782.8	577.9	475.4	409.3	277.0	177.7
115°	960.9	1016.9	960.9	904.8	890.9	742.8	545.4	446.6	390.9	279.5	196.0
117.5°	905.3	967.4	905.3	843.2	827.7	694.0	515.9	426.8	379.4	284.7	213.7
120°	860.6	920.9	860.6	800.3	785.2	663.1	500.3	418.8	375.6	288.9	224.0
122.5°	817.1	876.6	817.1	757.6	742.7	632.7	486.1	412.8	373.5	295.0	236.1
125°	755.0	809.7	755.0	700.2	686.5	593.1	468.5	406.2	371.9	303.2	251.7
127.5°	699.1	745.3	699.1	652.9	641.3	561.1	454.2	400.7	371.0	311.4	266.8
130°	666.2	708.9	666.2	623.4	612.8	541.4	446.2	398.6	371.5	317.4	276.8
132.5°	636.3	674.5	636.3	598.0	588.5	524.6	439.3	396.7	371.9	322.2	285.0
135°	595.4	628.4	595.4	562.4	554.1	500.6	429.2	393.5	371.6	327.5	294.5
137.5°	562.5	589.5	562.5	535.5	528.8	483.5	423.2	393.0	373.9	335.4	306.6
140°	540.0	565.2	540.0	514.7	508.4	469.3	417.2	391.2	374.2	340.3	314.8
142.5°	521.3	543.0	521.3	499.6	494.2	459.8	414.1	391.2	375.6	344.3	320.9
145°	493.3	509.8	493.3	476.9	472.8	444.7	407.3	388.5	375.6	349.6	330.2
147.5°	471.8	485.5	471.8	458.2	454.8	432.7	403.3	388.5	378.1	357.3	341.7
150°	458.3	469.4	458.3	447.2	444.5	425.8	401.0	388.5	379.5	361.4	347.9
152.5°	446.7	455.1	446.7	438.4	436.3	420.4	399.2	388.5	380.3	364.1	351.8
155°	433.4	439.0	433.4	427.9	426.5	413.8	396.9	388.5	382.3	369.9	360.5
157.5°	422.9	426.8	422.9	419.0	418.1	408.2	395.1	388.5	384.3	375.6	369.3
160°	416.6	418.8	416.6	414.4	413.9	405.5	394.1	388.5	385.1	378.3	373.2
162.5°	412.5	414.7	412.5	410.4	409.9	402.7	393.3	388.5	386.0	381.1	377.4
165°	406.7	408.9	406.7	404.4	403.8	398.7	391.9	388.5	387.4	385.2	383.5
167.5°	402.4	403.3	402.4	401.5	401.2	397.9	393.4	391.2	390.2	388.3	386.9
170°	401.2	401.2	401.2	401.2	401.2	397.9	393.4	391.2	391.1	391.0	390.9
172.5°	398.1	397.2	398.1	398.9	399.1	396.4	392.9	391.2	391.2	391.2	391.2
175°	396.2	396.2	396.2	396.2	396.2	394.5	392.3	391.2	391.7	392.8	393.5
177.5°	394.5	393.5	394.5	395.4	395.7	394.3	392.5	391.7	392.1	392.9	393.5
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934670
 CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	612.5	609.1	609.1	603.4	601.1	599.4	596.6	588.0	585.7	583.4	586.9
5°	617.7	611.4	606.8	596.6	588.0	584.6	573.7	553.1	539.4	529.1	523.4
7.5°	618.8	610.8	602.3	586.3	565.6	556.5	523.4	485.7	475.4	466.3	460.5
10°	617.7	608.5	596.6	572.5	524.0	508.0	474.8	450.3	444.0	442.3	444.0
12.5°	613.7	605.1	588.6	548.5	480.5	469.7	450.3	436.0	434.9	437.7	453.1
15°	606.8	598.8	579.4	516.6	456.6	448.6	434.9	429.7	436.0	456.0	502.3
17.5°	600.0	590.9	566.8	485.1	438.3	432.6	422.8	433.2	468.5	495.4	510.9
20°	590.9	580.0	552.5	462.3	425.1	420.0	415.4	461.7	488.5	498.2	506.9
22.5°	580.0	568.5	533.1	446.3	411.4	407.4	410.2	477.7	488.5	495.4	502.9
25°	565.6	555.9	510.3	433.7	400.5	396.0	406.8	476.0	482.2	483.9	498.8
27.5°	552.5	540.0	486.2	422.3	387.4	385.7	409.7	468.5	473.1	474.8	490.8
30°	536.5	517.7	459.4	410.2	373.7	373.1	410.2	459.4	458.3	462.8	478.8
32.5°	520.0	484.5	429.2	395.4	360.6	360.0	406.2	445.7	444.6	450.8	462.8
35°	504.6	458.8	388.0	378.3	344.0	344.5	396.5	429.7	430.3	436.0	443.4
37.5°	488.5	436.6	342.8	359.4	328.0	328.0	383.4	414.8	413.7	415.4	425.7
40°	469.7	401.7	302.8	334.8	313.1	311.4	367.4	398.8	394.8	394.3	408.5
42.5°	449.7	363.4	273.2	302.3	296.0	293.7	348.0	379.4	372.0	373.7	392.0
45°	428.0	353.2	250.2	255.4	278.3	276.6	326.8	357.2	352.0	356.6	375.4
47.5°	406.2	332.5	242.8	212.0	259.4	258.8	303.4	335.4	332.5	337.1	357.2
50°	376.6	309.7	242.3	181.7	238.3	240.5	275.5	314.3	314.3	318.3	339.4
52.5°	338.2	281.7	220.0	164.5	213.7	220.6	250.8	296.0	297.1	301.1	320.0
55°	303.4	252.5	204.0	151.4	184.5	199.5	226.8	277.2	279.4	283.4	300.6
57.5°	271.4	210.3	200.6	136.0	157.7	172.0	205.7	258.8	259.9	263.4	280.0
60°	237.1	152.0	184.0	119.5	134.3	145.1	186.2	237.1	241.1	243.4	257.7
62.5°	198.3	110.2	166.8	108.0	122.9	125.2	170.3	216.6	221.7	223.4	232.0
65°	141.2	92.5	141.7	98.3	110.8	111.4	153.1	195.4	200.0	202.9	209.2
67.5°	95.4	75.4	108.0	89.1	101.7	102.2	136.6	170.8	177.1	179.4	183.4
70°	66.3	50.3	80.0	79.4	91.4	92.5	118.9	148.6	154.3	156.0	158.3
72.5°	48.6	40.6	66.3	71.4	80.6	81.7	100.5	123.5	129.2	130.9	132.0
75°	37.1	42.9	53.7	62.3	68.6	69.1	82.3	100.5	104.5	105.7	106.2
77.5°	29.7	40.0	39.4	50.3	56.0	54.9	64.6	77.7	81.1	81.1	81.1
80°	22.3	31.4	29.7	36.0	41.2	40.0	46.3	55.5	56.6	57.7	57.2
82.5°	16.5	20.0	20.0	22.8	27.4	26.3	30.8	36.0	36.0	36.0	37.1
85°	10.3	11.4	9.1	12.0	15.4	14.8	17.1	19.4	20.0	20.0	18.8
87.5°	6.3	5.1	2.9	4.6	6.8	6.8	8.0	8.6	8.0	8.0	8.0
90°	6.9	4.8	2.6	4.8	6.9	7.4	11.7	17.3	20.1	17.9	13.4
92.5°	46.4	28.5	10.6	28.5	46.4	50.9	71.7	99.3	113.1	99.1	71.1
95°	91.2	58.3	25.4	58.3	91.2	99.3	176.4	279.0	330.4	294.8	223.6
97.5°	101.8	72.8	43.9	72.8	101.8	109.1	237.5	408.8	494.4	471.9	427.0
100°	110.7	84.3	58.1	84.3	110.7	117.2	259.8	449.9	544.9	546.5	549.8
102.5°	119.3	94.8	70.3	94.8	119.3	125.4	270.0	462.8	559.2	587.8	645.0
105°	132.4	111.6	90.8	111.6	132.4	137.6	277.6	464.3	557.5	621.8	750.2
107.5°	150.7	131.4	112.0	131.4	150.7	155.6	279.0	443.6	525.9	615.4	794.5
110°	161.3	143.7	126.3	143.7	161.3	165.6	276.9	425.2	499.4	599.6	799.8



TEST NUMBER: P934670

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	173.6	156.9	140.2	156.9	173.6	177.7	277.0	409.3	475.4	577.9	782.8
115°	192.1	176.7	161.4	176.7	192.1	196.0	279.5	390.9	446.6	545.4	742.8
117.5°	210.2	196.2	182.2	196.2	210.2	213.7	284.7	379.4	426.8	515.9	694.0
120°	220.7	207.5	194.4	207.5	220.7	224.0	288.9	375.6	418.8	500.3	663.1
122.5°	232.8	219.6	206.3	219.6	232.8	236.1	295.0	373.5	412.8	486.1	632.7
125°	248.7	236.6	224.5	236.6	248.7	251.7	303.2	371.9	406.2	468.5	593.1
127.5°	263.7	251.5	239.3	251.5	263.7	266.8	311.4	371.0	400.7	454.2	561.1
130°	273.5	260.4	247.3	260.4	273.5	276.8	317.4	371.5	398.6	446.2	541.4
132.5°	281.7	268.6	255.4	268.6	281.7	285.0	322.2	371.9	396.7	439.3	524.6
135°	291.5	279.5	267.5	279.5	291.5	294.5	327.5	371.6	393.5	429.2	500.6
137.5°	303.7	291.8	280.0	291.8	303.7	306.6	335.4	373.9	393.0	423.2	483.5
140°	312.1	301.2	290.3	301.2	312.1	314.8	340.3	374.2	391.2	417.2	469.3
142.5°	318.3	308.3	298.2	308.3	318.3	320.9	344.3	375.6	391.2	414.1	459.8
145°	327.9	319.2	310.3	319.2	327.9	330.2	349.6	375.6	388.5	407.3	444.7
147.5°	339.6	331.0	322.5	331.0	339.6	341.7	357.3	378.1	388.5	403.3	432.7
150°	345.9	338.2	330.4	338.2	345.9	347.9	361.4	379.5	388.5	401.0	425.8
152.5°	350.3	344.5	338.6	344.5	350.3	351.8	364.1	380.3	388.5	399.2	420.4
155°	359.4	355.1	350.8	355.1	359.4	360.5	369.9	382.3	388.5	396.9	413.8
157.5°	368.2	364.0	359.7	364.0	368.2	369.3	375.6	384.3	388.5	395.1	408.2
160°	372.3	369.1	365.8	369.1	372.3	373.2	378.3	385.1	388.5	394.1	405.5
162.5°	376.8	374.4	371.9	374.4	376.8	377.4	381.1	386.0	388.5	393.3	402.7
165°	382.9	380.7	378.5	380.7	382.9	383.5	385.2	387.4	388.5	391.9	398.7
167.5°	386.6	385.5	384.5	385.5	386.6	386.9	388.3	390.2	391.2	393.4	397.9
170°	390.6	389.5	388.5	389.5	390.6	390.9	391.0	391.1	391.2	393.4	397.9
172.5°	391.1	390.9	390.6	390.9	391.1	391.2	391.2	391.2	391.2	392.9	396.4
175°	393.5	393.5	393.5	393.5	393.5	393.5	392.8	391.7	391.2	392.3	394.5
177.5°	393.5	393.5	393.5	393.5	393.5	393.5	392.9	392.1	391.7	392.5	394.3
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



TEST NUMBER: P934670
 CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	582.9	581.1	583.4	577.1	583.4	581.1	582.9	586.9	583.4	585.7	588.0
5°	511.4	508.6	499.4	491.9	499.4	508.6	511.4	523.4	529.1	539.4	553.1
7.5°	457.1	454.8	452.6	448.0	452.6	454.8	457.1	460.5	466.3	475.4	485.7
10°	445.1	445.7	449.1	448.6	449.1	445.7	445.1	444.0	442.3	444.0	450.3
12.5°	476.0	481.1	500.0	498.8	500.0	481.1	476.0	453.1	437.7	434.9	436.0
15°	511.4	513.1	517.1	517.7	517.1	513.1	511.4	502.3	456.0	436.0	429.7
17.5°	514.9	515.4	518.3	518.3	518.3	515.4	514.9	510.9	495.4	468.5	433.2
20°	512.0	513.1	518.9	520.0	518.9	513.1	512.0	506.9	498.2	488.5	461.7
22.5°	510.9	513.1	517.7	517.1	517.7	513.1	510.9	502.9	495.4	488.5	477.7
25°	505.2	505.2	505.7	506.3	505.7	505.2	505.2	498.8	483.9	482.2	476.0
27.5°	493.1	494.2	497.7	497.1	497.7	494.2	493.1	490.8	474.8	473.1	468.5
30°	482.2	481.1	478.2	476.0	478.2	481.1	482.2	478.8	462.8	458.3	459.4
32.5°	464.0	461.1	458.3	456.6	458.3	461.1	464.0	462.8	450.8	444.6	445.7
35°	442.3	442.9	442.3	440.6	442.3	442.9	442.3	443.4	436.0	430.3	429.7
37.5°	426.9	428.0	427.4	425.1	427.4	428.0	426.9	425.7	415.4	413.7	414.8
40°	410.8	411.4	410.8	409.1	410.8	411.4	410.8	408.5	394.3	394.8	398.8
42.5°	395.4	394.8	393.1	392.0	393.1	394.8	395.4	392.0	373.7	372.0	379.4
45°	377.7	378.3	374.8	373.1	374.8	378.3	377.7	375.4	356.6	352.0	357.2
47.5°	360.0	360.0	357.2	355.4	357.2	360.0	360.0	357.2	337.1	332.5	335.4
50°	341.1	340.5	336.5	335.9	336.5	340.5	341.1	339.4	318.3	314.3	314.3
52.5°	319.4	319.4	320.0	321.1	320.0	319.4	319.4	320.0	301.1	297.1	296.0
55°	300.6	301.1	305.1	306.3	305.1	301.1	300.6	300.6	283.4	279.4	277.2
57.5°	281.2	281.2	284.0	284.0	284.0	281.2	281.2	280.0	263.4	259.9	258.8
60°	258.8	259.9	262.2	261.7	262.2	259.9	258.8	257.7	243.4	241.1	237.1
62.5°	235.4	236.6	237.1	236.0	237.1	236.6	235.4	232.0	223.4	221.7	216.6
65°	210.9	212.0	212.6	211.4	212.6	212.0	210.9	209.2	202.9	200.0	195.4
67.5°	185.7	185.1	184.5	186.8	184.5	185.1	185.7	183.4	179.4	177.1	170.8
70°	160.0	160.0	159.4	160.6	159.4	160.0	160.0	158.3	156.0	154.3	148.6
72.5°	132.6	132.0	134.3	132.6	134.3	132.0	132.6	132.0	130.9	129.2	123.5
75°	105.7	106.8	105.7	107.4	105.7	106.8	105.7	106.2	105.7	104.5	100.5
77.5°	80.6	81.7	80.6	80.6	80.6	81.7	80.6	81.1	81.1	81.1	77.7
80°	57.2	56.6	56.6	56.0	56.6	56.6	57.2	57.2	57.7	56.6	55.5
82.5°	36.6	36.0	36.0	37.1	36.0	36.0	36.6	37.1	36.0	36.0	36.0
85°	20.0	20.5	19.4	19.4	19.4	20.5	20.0	18.8	20.0	20.0	19.4
87.5°	7.4	6.8	6.8	6.8	6.8	6.8	7.4	8.0	8.0	8.0	8.6
90°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	13.4	17.9	20.1	17.3
92.5°	50.2	48.2	40.2	32.2	40.2	48.2	50.2	71.1	99.1	113.1	99.3
95°	170.3	164.3	140.2	116.0	140.2	164.3	170.3	223.6	294.8	330.4	279.0
97.5°	393.3	381.8	335.8	289.8	335.8	381.8	393.3	427.0	471.9	494.4	408.8
100°	552.3	538.5	483.8	428.9	483.8	538.5	552.3	549.8	546.5	544.9	449.9
102.5°	688.0	676.2	629.3	582.3	629.3	676.2	688.0	645.0	587.8	559.2	462.8
105°	846.5	840.2	814.9	789.7	814.9	840.2	846.5	750.2	621.8	557.5	464.3
107.5°	928.9	930.4	936.5	942.7	936.5	930.4	928.9	794.5	615.4	525.9	443.6
110°	950.0	956.5	982.9	1009.2	982.9	956.5	950.0	799.8	599.6	499.4	425.2



TEST NUMBER: P934670

CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	936.5	946.7	987.0	1027.4	987.0	946.7	936.5	782.8	577.9	475.4	409.3
115°	890.9	904.8	960.9	1016.9	960.9	904.8	890.9	742.8	545.4	446.6	390.9
117.5°	827.7	843.2	905.3	967.4	905.3	843.2	827.7	694.0	515.9	426.8	379.4
120°	785.2	800.3	860.6	920.9	860.6	800.3	785.2	663.1	500.3	418.8	375.6
122.5°	742.7	757.6	817.1	876.6	817.1	757.6	742.7	632.7	486.1	412.8	373.5
125°	686.5	700.2	755.0	809.7	755.0	700.2	686.5	593.1	468.5	406.2	371.9
127.5°	641.3	652.9	699.1	745.3	699.1	652.9	641.3	561.1	454.2	400.7	371.0
130°	612.8	623.4	666.2	708.9	666.2	623.4	612.8	541.4	446.2	398.6	371.5
132.5°	588.5	598.0	636.3	674.5	636.3	598.0	588.5	524.6	439.3	396.7	371.9
135°	554.1	562.4	595.4	628.4	595.4	562.4	554.1	500.6	429.2	393.5	371.6
137.5°	528.8	535.5	562.5	589.5	562.5	535.5	528.8	483.5	423.2	393.0	373.9
140°	508.4	514.7	540.0	565.2	540.0	514.7	508.4	469.3	417.2	391.2	374.2
142.5°	494.2	499.6	521.3	543.0	521.3	499.6	494.2	459.8	414.1	391.2	375.6
145°	472.8	476.9	493.3	509.8	493.3	476.9	472.8	444.7	407.3	388.5	375.6
147.5°	454.8	458.2	471.8	485.5	471.8	458.2	454.8	432.7	403.3	388.5	378.1
150°	444.5	447.2	458.3	469.4	458.3	447.2	444.5	425.8	401.0	388.5	379.5
152.5°	436.3	438.4	446.7	455.1	446.7	438.4	436.3	420.4	399.2	388.5	380.3
155°	426.5	427.9	433.4	439.0	433.4	427.9	426.5	413.8	396.9	388.5	382.3
157.5°	418.1	419.0	422.9	426.8	422.9	419.0	418.1	408.2	395.1	388.5	384.3
160°	413.9	414.4	416.6	418.8	416.6	414.4	413.9	405.5	394.1	388.5	385.1
162.5°	409.9	410.4	412.5	414.7	412.5	410.4	409.9	402.7	393.3	388.5	386.0
165°	403.8	404.4	406.7	408.9	406.7	404.4	403.8	398.7	391.9	388.5	387.4
167.5°	401.2	401.5	402.4	403.3	402.4	401.5	401.2	397.9	393.4	391.2	390.2
170°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	397.9	393.4	391.2	391.1
172.5°	399.1	398.9	398.1	397.2	398.1	398.9	399.1	396.4	392.9	391.2	391.2
175°	396.2	396.2	396.2	396.2	396.2	396.2	396.2	394.5	392.3	391.2	391.7
177.5°	395.7	395.4	394.5	393.5	394.5	395.4	395.7	394.3	392.5	391.7	392.1
180°	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5	393.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	604.0	604.0	604.0	604.0	604.0
2.5°	596.6	599.4	601.1	603.4	609.1
5°	573.7	584.6	588.0	596.6	606.8
7.5°	523.4	556.5	565.6	586.3	602.3
10°	474.8	508.0	524.0	572.5	596.6
12.5°	450.3	469.7	480.5	548.5	588.6
15°	434.9	448.6	456.6	516.6	579.4
17.5°	422.8	432.6	438.3	485.1	566.8
20°	415.4	420.0	425.1	462.3	552.5
22.5°	410.2	407.4	411.4	446.3	533.1
25°	406.8	396.0	400.5	433.7	510.3
27.5°	409.7	385.7	387.4	422.3	486.2
30°	410.2	373.1	373.7	410.2	459.4
32.5°	406.2	360.0	360.6	395.4	429.2
35°	396.5	344.5	344.0	378.3	388.0
37.5°	383.4	328.0	328.0	359.4	342.8
40°	367.4	311.4	313.1	334.8	302.8
42.5°	348.0	293.7	296.0	302.3	273.2
45°	326.8	276.6	278.3	255.4	250.2
47.5°	303.4	258.8	259.4	212.0	242.8
50°	275.5	240.5	238.3	181.7	242.3
52.5°	250.8	220.6	213.7	164.5	220.0
55°	226.8	199.5	184.5	151.4	204.0
57.5°	205.7	172.0	157.7	136.0	200.6
60°	186.2	145.1	134.3	119.5	184.0
62.5°	170.3	125.2	122.9	108.0	166.8
65°	153.1	111.4	110.8	98.3	141.7
67.5°	136.6	102.2	101.7	89.1	108.0
70°	118.9	92.5	91.4	79.4	80.0
72.5°	100.5	81.7	80.6	71.4	66.3
75°	82.3	69.1	68.6	62.3	53.7
77.5°	64.6	54.9	56.0	50.3	39.4
80°	46.3	40.0	41.2	36.0	29.7
82.5°	30.8	26.3	27.4	22.8	20.0
85°	17.1	14.8	15.4	12.0	9.1
87.5°	8.0	6.8	6.8	4.6	2.9
90°	11.7	7.4	6.9	4.8	2.6
92.5°	71.7	50.9	46.4	28.5	10.6
95°	176.4	99.3	91.2	58.3	25.4
97.5°	237.5	109.1	101.8	72.8	43.9
100°	259.8	117.2	110.7	84.3	58.1
102.5°	270.0	125.4	119.3	94.8	70.3
105°	277.6	137.6	132.4	111.6	90.8
107.5°	279.0	155.6	150.7	131.4	112.0
110°	276.9	165.6	161.3	143.7	126.3



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CATALOG NUMBER: SQ4-FA-075U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	277.0	177.7	173.6	156.9	140.2
115°	279.5	196.0	192.1	176.7	161.4
117.5°	284.7	213.7	210.2	196.2	182.2
120°	288.9	224.0	220.7	207.5	194.4
122.5°	295.0	236.1	232.8	219.6	206.3
125°	303.2	251.7	248.7	236.6	224.5
127.5°	311.4	266.8	263.7	251.5	239.3
130°	317.4	276.8	273.5	260.4	247.3
132.5°	322.2	285.0	281.7	268.6	255.4
135°	327.5	294.5	291.5	279.5	267.5
137.5°	335.4	306.6	303.7	291.8	280.0
140°	340.3	314.8	312.1	301.2	290.3
142.5°	344.3	320.9	318.3	308.3	298.2
145°	349.6	330.2	327.9	319.2	310.3
147.5°	357.3	341.7	339.6	331.0	322.5
150°	361.4	347.9	345.9	338.2	330.4
152.5°	364.1	351.8	350.3	344.5	338.6
155°	369.9	360.5	359.4	355.1	350.8
157.5°	375.6	369.3	368.2	364.0	359.7
160°	378.3	373.2	372.3	369.1	365.8
162.5°	381.1	377.4	376.8	374.4	371.9
165°	385.2	383.5	382.9	380.7	378.5
167.5°	388.3	386.9	386.6	385.5	384.5
170°	391.0	390.9	390.6	389.5	388.5
172.5°	391.2	391.2	391.1	390.9	390.6
175°	392.8	393.5	393.5	393.5	393.5
177.5°	392.9	393.5	393.5	393.5	393.5
180°	393.5	393.5	393.5	393.5	393.5



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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	9.56	10.33	10.62	11.39	12.82	12.36	13.13	13.42	14.18	15.62
	3H	10.03	10.72	11.10	11.78	13.23	13.69	14.38	14.75	15.44	16.89
	4H	10.22	10.87	11.30	11.94	13.39	14.12	14.77	15.20	15.84	17.30
	6H	10.34	10.93	11.42	12.00	13.47	14.40	14.99	15.48	16.06	17.53
	8H	10.33	10.90	11.42	11.99	13.45	14.46	15.03	15.55	16.12	17.58
	12H	10.30	10.84	11.39	11.92	13.41	14.49	15.03	15.59	16.11	17.60
4H	2H	10.58	11.23	11.66	12.29	13.75	12.76	13.41	13.84	14.48	15.94
	3H	11.60	12.14	12.68	13.23	14.70	14.25	14.79	15.34	15.88	17.35
	4H	11.87	12.36	12.96	13.45	14.94	14.77	15.26	15.86	16.35	17.84
	6H	11.99	12.41	13.09	13.52	15.01	15.12	15.54	16.22	16.65	18.14
	8H	11.99	12.39	13.09	13.49	14.99	15.22	15.61	16.32	16.71	18.22
	12H	11.95	12.31	13.07	13.43	14.93	15.26	15.62	16.38	16.74	18.24
8H	4H	12.31	12.70	13.41	13.81	15.31	14.88	15.28	15.99	16.38	17.88
	6H	12.57	12.89	13.69	14.04	15.53	15.31	15.64	16.43	16.78	18.28
	8H	12.61	12.89	13.74	14.02	15.54	15.45	15.74	16.58	16.86	18.38
	12H	12.59	12.84	13.72	13.96	15.51	15.54	15.79	16.68	16.91	18.47
12H	4H	12.31	12.67	13.43	13.78	15.29	14.84	15.20	15.96	16.32	17.82
	6H	12.62	12.91	13.75	14.04	15.55	15.30	15.59	16.43	16.72	18.23
	8H	12.69	12.94	13.82	14.06	15.61	15.46	15.71	16.59	16.83	18.38