

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: P934698

Luminaire Tested: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934698
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-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

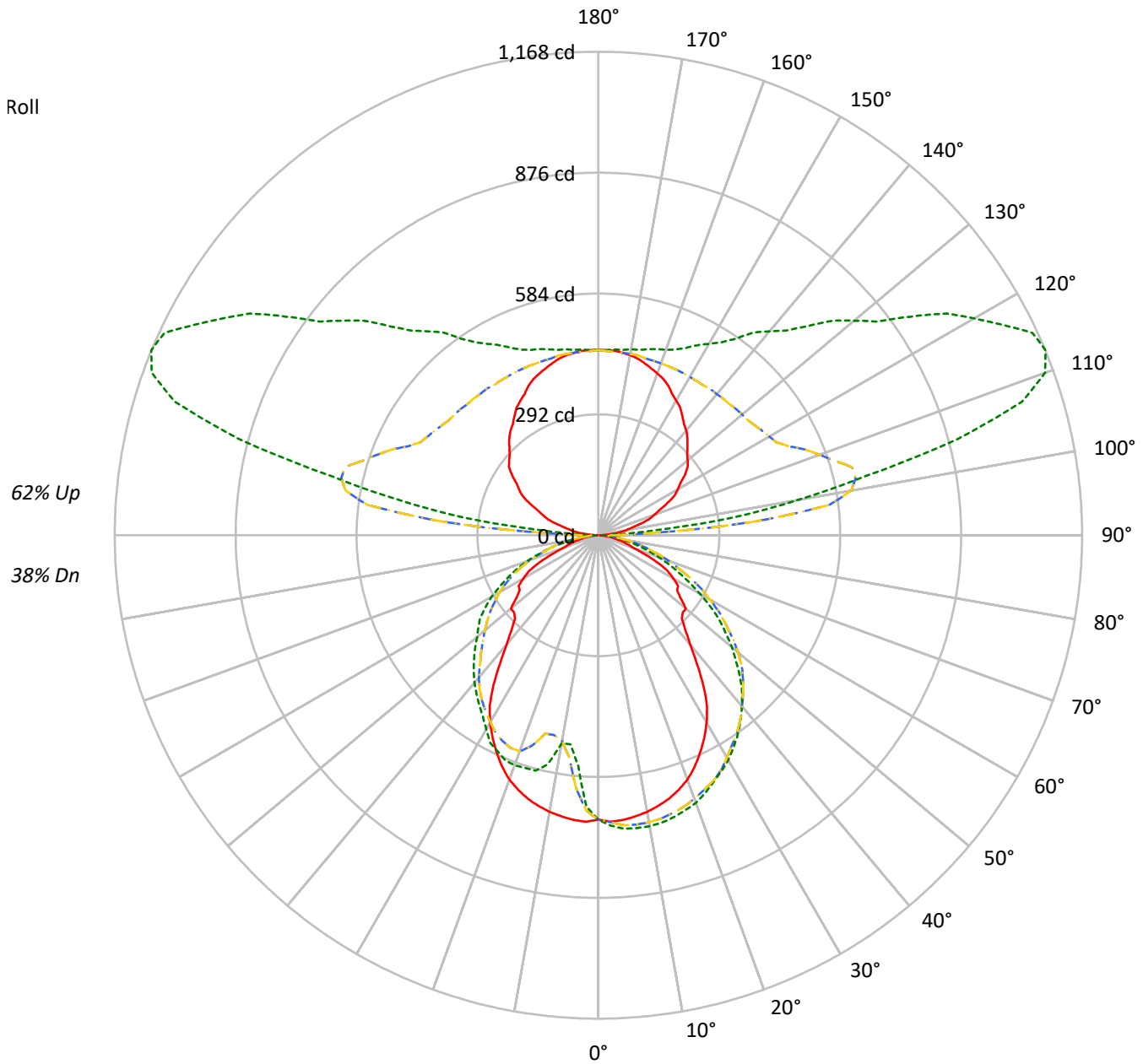
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4684.2 lumens
Efficiency: N/A
Efficacy: 136.2 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



— 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°	6374	6374	6374	6374
5°	6414	6434	6414	5059
10°	6365	6338	6365	4532
15°	6288	6201	6288	5178
20°	6149	6038	6149	5189
25°	5873	5801	5873	5079
30°	5519	5604	5519	4838
35°	4913	5354	4913	4572
40°	4086	5062	4086	4371
45°	3644	4718	3644	4140
50°	3863	4308	3863	3909
55°	3624	3868	3624	3777
60°	3723	3285	3723	3459
65°	3357	2715	3357	3034
70°	2310	2164	2310	2545
75°	2000	1599	2000	1916
80°	1582	1058	1582	1152
85°	861	560	861	476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	1.3
10°-20°	176.0	3.8
20°-30°	272.1	5.8
30°-40°	324.9	6.9
40°-50°	326.8	7.0
50°-60°	284.3	6.1
60°-70°	201.6	4.3
70°-80°	106.7	2.3
80°-90°	28.3	0.6
90°-100°	218.2	4.7
100°-110°	573.6	12.2
110°-120°	594.7	12.7
120°-130°	477.1	10.2
130°-140°	374.3	8.0
140°-150°	287.3	6.1
150°-160°	206.9	4.4
160°-170°	126.6	2.7
170°-180°	42.8	0.9
0°-30°	510.2	10.9
0°-40°	835.1	17.8
0°-60°	1446.2	30.9
0°-90°	1782.7	38.1
90°-120°	1386.5	29.6
90°-150°	2525.2	53.9
90°-180°	2901.0	61.9
0°-180°	4684.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	687	687	687	687	687	
5°	690	712	690	560	690	65
15°	659	705	659	589	659	185
25°	580	658	580	576	580	266
35°	441	587	441	501	441	273
45°	285	484	285	424	285	228
55°	232	357	232	348	232	213
65°	161	215	161	240	161	154
75°	61	102	61	122	61	64
85°	10	26	10	22	10	14
90°	3	11	3	11	3	3
95°	29	132	29	132	29	32
105°	103	898	103	898	103	110
115°	184	1156	184	1156	184	181
125°	255	921	255	921	255	227
135°	304	715	304	715	304	235
145°	353	580	353	580	353	221
155°	399	499	399	499	399	183
165°	430	465	430	465	430	121
175°	448	451	448	451	448	42
180°	448	448	448	448	448	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	692.7	692.7	696.6	698.0	698.0	696.0	694.1	696.0	701.8	703.8	703.1
5°	690.1	695.4	702.5	703.8	705.1	704.5	703.1	704.5	711.0	712.2	712.9
7.5°	685.0	694.7	703.8	705.7	707.7	705.7	705.1	706.4	712.9	714.2	714.2
10°	678.5	692.1	702.5	703.8	705.7	703.8	703.8	706.4	712.9	714.2	714.8
12.5°	669.4	688.2	698.0	699.2	701.8	701.2	700.6	703.1	709.7	711.0	711.0
15°	658.9	681.0	690.1	691.5	696.0	694.7	694.7	697.3	704.5	706.4	705.7
17.5°	644.7	672.0	682.4	684.3	687.6	686.9	687.6	690.1	696.6	698.0	698.6
20°	628.4	659.6	672.0	673.9	677.1	677.1	677.1	680.4	686.9	689.5	689.5
22.5°	606.3	646.6	659.6	661.0	664.8	664.8	666.1	670.6	676.5	677.1	677.1
25°	580.3	632.3	643.3	647.3	651.2	653.1	655.0	657.7	659.6	658.9	659.6
27.5°	553.0	614.2	628.4	631.0	636.2	638.2	640.8	641.4	642.1	644.0	642.7
30°	522.5	588.8	610.2	612.8	621.2	622.6	620.0	621.2	624.5	625.8	627.1
32.5°	488.1	551.1	591.4	597.2	605.0	601.2	600.5	602.4	607.7	607.7	608.9
35°	441.3	521.8	573.8	579.1	584.9	580.3	583.0	583.5	586.8	588.8	588.1
37.5°	389.9	496.5	555.6	559.5	564.1	558.2	562.1	564.1	566.7	565.4	565.4
40°	344.4	456.9	534.2	536.8	540.7	536.1	540.0	541.4	542.6	541.4	540.7
42.5°	310.7	413.3	511.4	514.7	512.1	515.3	516.7	519.3	517.3	514.7	514.7
45°	284.6	401.7	486.7	490.6	486.7	492.0	493.9	493.9	488.1	486.7	486.1
47.5°	276.2	378.2	462.0	462.0	460.1	466.6	469.9	465.3	459.5	457.5	457.5
50°	275.6	352.2	428.3	425.7	434.8	442.5	439.3	434.8	430.2	423.1	423.1
52.5°	250.2	320.4	384.7	394.5	408.7	413.3	408.1	403.6	395.7	392.5	389.9
55°	232.0	287.2	345.1	364.5	379.6	385.4	375.6	371.0	359.4	357.5	356.1
57.5°	228.1	239.1	308.7	333.3	351.6	351.0	345.1	336.6	326.8	324.9	324.3
60°	209.3	172.9	269.7	298.9	317.7	315.8	310.7	302.8	293.7	292.4	291.2
62.5°	189.7	125.4	225.5	258.6	285.3	284.6	280.1	268.4	261.9	258.6	256.0
65°	161.1	105.2	160.6	215.1	253.5	254.8	245.0	236.5	229.4	225.5	224.8
67.5°	122.9	85.8	108.5	179.4	222.9	221.6	209.3	205.3	196.2	194.3	190.4
70°	91.0	57.2	75.4	145.5	193.0	189.7	180.0	175.5	167.1	162.5	159.9
72.5°	75.4	46.1	55.2	113.1	162.5	158.5	150.1	145.0	137.8	133.9	131.3
75°	61.0	48.7	42.2	83.8	131.9	129.4	121.5	116.3	110.5	105.2	105.9
77.5°	44.9	45.4	33.8	61.7	104.7	100.8	96.2	89.7	87.1	81.9	81.9
80°	33.8	35.8	25.4	42.2	75.4	75.4	71.5	67.0	62.4	59.8	59.8
82.5°	22.8	22.8	18.8	26.6	51.4	49.4	46.8	45.4	42.9	41.6	41.6
85°	10.4	13.0	11.7	16.3	27.9	29.3	29.3	27.9	27.3	26.0	26.6
87.5°	3.3	5.8	7.2	9.1	14.3	14.9	15.6	15.6	15.6	16.3	16.3
90°	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2	11.4	11.4
92.5°	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9	57.1	54.8
95°	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4	193.7	186.8
97.5°	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7	447.3	434.2
100°	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3	628.1	612.5
102.5°	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6	782.5	769.1
105°	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2	962.7	955.5
107.5°	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6	1056.4	1058.1
110°	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6	1080.4	1087.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3	1065.1	1076.7
115°	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8	1013.2	1029.1
117.5°	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3	941.4	959.0
120°	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2	893.0	910.2
122.5°	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6	844.7	861.6
125°	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5	780.7	796.3
127.5°	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2	729.4	742.5
130°	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7	696.9	709.0
132.5°	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6	669.3	680.1
135°	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4	630.2	639.6
137.5°	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9	601.4	609.0
140°	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7	578.2	585.4
142.5°	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0	562.0	568.2
145°	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7	537.7	542.3
147.5°	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2	517.3	521.1
150°	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3	505.5	508.6
152.5°	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1	496.2	498.6
155°	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6	485.1	486.6
157.5°	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2	475.5	476.6
160°	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1	470.7	471.3
162.5°	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0	466.2	466.8
165°	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5	459.3	460.0
167.5°	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5	456.3	456.6
170°	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5	456.3	456.3
172.5°	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9	453.9	453.7
175°	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6	450.6	450.6
177.5°	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5	450.0	449.7
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	704.5	702.5	704.5	703.1	703.8	701.8	696.0	694.1	696.0	698.0	698.0
5°	712.9	711.6	712.9	712.9	712.2	711.0	704.5	703.1	704.5	705.1	703.8
7.5°	715.5	713.6	715.5	714.2	714.2	712.9	706.4	705.1	705.7	707.7	705.7
10°	715.5	713.6	715.5	714.8	714.2	712.9	706.4	703.8	703.8	705.7	703.8
12.5°	712.2	711.0	712.2	711.0	711.0	709.7	703.1	700.6	701.2	701.8	699.2
15°	707.1	705.1	707.1	705.7	706.4	704.5	697.3	694.7	694.7	696.0	691.5
17.5°	699.2	696.6	699.2	698.6	698.0	696.6	690.1	687.6	686.9	687.6	684.3
20°	690.1	688.2	690.1	689.5	689.5	686.9	680.4	677.1	677.1	677.1	673.9
22.5°	675.9	673.9	675.9	677.1	677.1	676.5	670.6	666.1	664.8	664.8	661.0
25°	659.6	657.7	659.6	659.6	658.9	659.6	657.7	655.0	653.1	651.2	647.3
27.5°	644.0	642.7	644.0	642.7	644.0	642.1	641.4	640.8	638.2	636.2	631.0
30°	628.4	627.1	628.4	627.1	625.8	624.5	621.2	620.0	622.6	621.2	612.8
32.5°	608.9	607.7	608.9	608.9	607.7	607.7	602.4	600.5	601.2	605.0	597.2
35°	588.8	586.8	588.8	588.1	588.8	586.8	583.5	583.0	580.3	584.9	579.1
37.5°	565.4	563.5	565.4	565.4	565.4	566.7	564.1	562.1	558.2	564.1	559.5
40°	541.4	538.8	541.4	540.7	541.4	542.6	541.4	540.0	536.1	540.7	536.8
42.5°	514.1	513.4	514.1	514.7	514.7	517.3	519.3	516.7	515.3	512.1	514.7
45°	484.8	483.5	484.8	486.1	486.7	488.1	493.9	493.9	492.0	486.7	490.6
47.5°	453.6	450.4	453.6	457.5	457.5	459.5	465.3	469.9	466.6	460.1	462.0
50°	420.4	421.1	420.4	423.1	423.1	430.2	434.8	439.3	442.5	434.8	425.7
52.5°	388.0	387.3	388.0	389.9	392.5	395.7	403.6	408.1	413.3	408.7	394.5
55°	355.4	356.8	355.4	356.1	357.5	359.4	371.0	375.6	385.4	379.6	364.5
57.5°	323.0	321.0	323.0	324.3	324.9	326.8	336.6	345.1	351.0	351.6	333.3
60°	285.3	282.7	285.3	291.2	292.4	293.7	302.8	310.7	315.8	317.7	298.9
62.5°	252.1	247.6	252.1	256.0	258.6	261.9	268.4	280.1	284.6	285.3	258.6
65°	217.1	215.1	217.1	224.8	225.5	229.4	236.5	245.0	254.8	253.5	215.1
67.5°	185.2	185.2	185.2	190.4	194.3	196.2	205.3	209.3	221.6	222.9	179.4
70°	156.0	155.3	156.0	159.9	162.5	167.1	175.5	180.0	189.7	193.0	145.5
72.5°	128.0	127.3	128.0	131.3	133.9	137.8	145.0	150.1	158.5	162.5	113.1
75°	103.3	102.0	103.3	105.9	105.2	110.5	116.3	121.5	129.4	131.9	83.8
77.5°	79.3	79.3	79.3	81.9	81.9	87.1	89.7	96.2	100.8	104.7	61.7
80°	59.1	58.5	59.1	59.8	59.8	62.4	67.0	71.5	75.4	75.4	42.2
82.5°	41.6	40.3	41.6	41.6	41.6	42.9	45.4	46.8	49.4	51.4	26.6
85°	26.0	26.0	26.0	26.6	26.0	27.3	27.9	29.3	29.3	27.9	16.3
87.5°	16.9	16.3	16.9	16.3	16.3	15.6	15.6	15.6	14.9	14.3	9.1
90°	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7	13.3	8.4
92.5°	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9	81.5	57.9
95°	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3	200.6	113.0
97.5°	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9	270.2	124.0
100°	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6	295.4	133.3
102.5°	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4	307.1	142.6
105°	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0	315.7	156.5
107.5°	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5	317.3	176.9
110°	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6	314.9	188.4



TEST NUMBER: P934698

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5	315.0	202.1
115°	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6	317.9	222.9
117.5°	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5	323.8	243.0
120°	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1	328.6	254.8
122.5°	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8	335.5	268.5
125°	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0	344.9	286.2
127.5°	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9	354.2	303.4
130°	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5	361.0	314.8
132.5°	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0	366.5	324.1
135°	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6	372.5	334.9
137.5°	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2	381.5	348.7
140°	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6	387.0	358.0
142.5°	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1	391.6	364.9
145°	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1	397.6	375.5
147.5°	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0	406.4	388.7
150°	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6	411.0	395.6
152.5°	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6	414.1	400.1
155°	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8	420.6	410.0
157.5°	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0	427.2	420.0
160°	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0	430.2	424.4
162.5°	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1	433.4	429.3
165°	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6	438.1	436.1
167.5°	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8	441.7	440.0
170°	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8	444.7	444.6
172.5°	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4	446.7	447.6
177.5°	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9	446.9	447.6
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934698

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	696.6	692.7	692.7	686.2	683.6	681.7	678.5	668.7	666.1	663.5	667.4
5°	702.5	695.4	690.1	678.5	668.7	664.8	652.4	629.1	613.5	601.7	595.3
7.5°	703.8	694.7	685.0	666.8	643.3	633.0	595.3	552.4	540.7	530.3	523.7
10°	702.5	692.1	678.5	651.2	595.9	577.7	540.0	512.1	504.9	503.0	504.9
12.5°	698.0	688.2	669.4	623.8	546.5	534.2	512.1	495.8	494.6	497.8	515.3
15°	690.1	681.0	658.9	587.5	519.3	510.2	494.6	488.7	495.8	518.6	571.2
17.5°	682.4	672.0	644.7	551.7	498.5	492.0	480.9	492.6	532.9	563.5	581.0
20°	672.0	659.6	628.4	525.8	483.5	477.6	472.5	525.1	555.6	566.7	576.5
22.5°	659.6	646.6	606.3	507.6	467.9	463.4	466.6	543.3	555.6	563.5	571.9
25°	643.3	632.3	580.3	493.2	455.5	450.4	462.7	541.4	548.5	550.4	567.3
27.5°	628.4	614.2	553.0	480.2	440.6	438.7	466.0	532.9	538.1	540.0	558.2
30°	610.2	588.8	522.5	466.6	425.0	424.3	466.6	522.5	521.2	526.4	544.6
32.5°	591.4	551.1	488.1	449.7	410.1	409.4	462.0	506.9	505.6	512.7	526.4
35°	573.8	521.8	441.3	430.2	391.2	391.9	451.0	488.7	489.3	495.8	504.3
37.5°	555.6	496.5	389.9	408.7	373.1	373.1	436.0	471.8	470.5	472.5	484.1
40°	534.2	456.9	344.4	380.8	356.1	354.2	417.8	453.6	449.0	448.5	464.6
42.5°	511.4	413.3	310.7	343.8	336.6	334.0	395.7	431.5	423.1	425.0	445.8
45°	486.7	401.7	284.6	290.5	316.5	314.5	371.7	406.2	400.3	405.5	426.9
47.5°	462.0	378.2	276.2	241.1	295.1	294.4	345.1	381.5	378.2	383.4	406.2
50°	428.3	352.2	275.6	206.7	271.0	273.5	313.3	357.5	357.5	362.0	386.0
52.5°	384.7	320.4	250.2	187.1	243.0	250.9	285.3	336.6	337.9	342.4	364.0
55°	345.1	287.2	232.0	172.2	209.9	226.8	257.9	315.2	317.7	322.3	341.9
57.5°	308.7	239.1	228.1	154.7	179.4	195.6	233.9	294.4	295.6	299.6	318.4
60°	269.7	172.9	209.3	135.9	152.7	165.0	211.8	269.7	274.2	276.8	293.1
62.5°	225.5	125.4	189.7	122.9	139.7	142.3	193.7	246.3	252.1	254.1	263.9
65°	160.6	105.2	161.1	111.8	126.1	126.7	174.1	222.3	227.4	230.7	237.9
67.5°	108.5	85.8	122.9	101.4	115.7	116.3	155.3	194.3	201.5	204.1	208.6
70°	75.4	57.2	91.0	90.3	104.0	105.2	135.2	169.0	175.5	177.4	180.0
72.5°	55.2	46.1	75.4	81.2	91.7	92.9	114.3	140.4	146.9	148.8	150.1
75°	42.2	48.7	61.0	70.8	78.0	78.6	93.6	114.3	118.9	120.3	120.8
77.5°	33.8	45.4	44.9	57.2	63.7	62.4	73.5	88.4	92.2	92.2	92.2
80°	25.4	35.8	33.8	41.0	46.8	45.4	52.6	63.1	64.3	65.6	65.0
82.5°	18.8	22.8	22.8	26.0	31.2	29.9	35.1	41.0	41.0	41.0	42.2
85°	11.7	13.0	10.4	13.7	17.5	16.9	19.5	22.1	22.8	22.8	21.4
87.5°	7.2	5.8	3.3	5.2	7.8	7.8	9.1	9.8	9.1	9.1	9.1
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2
92.5°	52.8	32.5	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9
95°	103.7	66.3	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4
97.5°	115.8	82.8	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7
100°	125.9	95.9	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3
102.5°	135.7	107.8	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6
105°	150.6	126.9	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2
107.5°	171.4	149.4	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6
110°	183.4	163.5	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6



TEST NUMBER: P934698

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	197.4	178.5	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3
115°	218.5	201.0	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8
117.5°	239.1	223.2	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3
120°	251.0	236.0	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2
122.5°	264.7	249.7	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6
125°	282.9	269.1	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5
127.5°	299.9	286.0	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2
130°	311.0	296.1	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7
132.5°	320.4	305.4	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6
135°	331.5	317.8	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4
137.5°	345.4	331.9	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9
140°	354.9	342.5	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7
142.5°	362.0	350.6	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0
145°	373.0	363.0	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7
147.5°	386.2	376.5	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2
150°	393.4	384.6	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3
152.5°	398.5	391.8	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1
155°	408.7	403.9	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6
157.5°	418.8	414.0	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2
160°	423.5	419.8	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1
162.5°	428.6	425.8	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0
165°	435.5	432.9	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5
167.5°	439.7	438.5	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5
170°	444.3	443.0	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5
172.5°	444.8	444.6	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9
175°	447.6	447.6	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6
177.5°	447.6	447.6	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934698

CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9	686.9
2.5°	662.9	661.0	663.5	656.4	663.5	661.0	662.9	667.4	663.5	666.1	668.7
5°	581.6	578.4	568.0	559.5	568.0	578.4	581.6	595.3	601.7	613.5	629.1
7.5°	519.9	517.3	514.7	509.5	514.7	517.3	519.9	523.7	530.3	540.7	552.4
10°	506.2	506.9	510.8	510.2	510.8	506.9	506.2	504.9	503.0	504.9	512.1
12.5°	541.4	547.2	568.6	567.3	568.6	547.2	541.4	515.3	497.8	494.6	495.8
15°	581.6	583.5	588.1	588.8	588.1	583.5	581.6	571.2	518.6	495.8	488.7
17.5°	585.6	586.1	589.4	589.4	589.4	586.1	585.6	581.0	563.5	532.9	492.6
20°	582.3	583.5	590.1	591.4	590.1	583.5	582.3	576.5	566.7	555.6	525.1
22.5°	581.0	583.5	588.8	588.1	588.8	583.5	581.0	571.9	563.5	555.6	543.3
25°	574.5	574.5	575.1	575.8	575.1	574.5	574.5	567.3	550.4	548.5	541.4
27.5°	560.9	562.1	566.0	565.4	566.0	562.1	560.9	558.2	540.0	538.1	532.9
30°	548.5	547.2	543.9	541.4	543.9	547.2	548.5	544.6	526.4	521.2	522.5
32.5°	527.7	524.4	521.2	519.3	521.2	524.4	527.7	526.4	512.7	505.6	506.9
35°	503.0	503.7	503.0	501.1	503.0	503.7	503.0	504.3	495.8	489.3	488.7
37.5°	485.5	486.7	486.1	483.5	486.1	486.7	485.5	484.1	472.5	470.5	471.8
40°	467.3	467.9	467.3	465.3	467.3	467.9	467.3	464.6	448.5	449.0	453.6
42.5°	449.7	449.0	447.1	445.8	447.1	449.0	449.7	445.8	425.0	423.1	431.5
45°	429.6	430.2	426.3	424.3	426.3	430.2	429.6	426.9	405.5	400.3	406.2
47.5°	409.4	409.4	406.2	404.2	406.2	409.4	409.4	406.2	383.4	378.2	381.5
50°	388.0	387.3	382.8	382.1	382.8	387.3	388.0	386.0	362.0	357.5	357.5
52.5°	363.3	363.3	364.0	365.2	364.0	363.3	363.3	364.0	342.4	337.9	336.6
55°	341.9	342.4	347.0	348.4	347.0	342.4	341.9	341.9	322.3	317.7	315.2
57.5°	319.8	319.8	323.0	323.0	323.0	319.8	319.8	318.4	299.6	295.6	294.4
60°	294.4	295.6	298.3	297.7	298.3	295.6	294.4	293.1	276.8	274.2	269.7
62.5°	267.7	269.1	269.7	268.4	269.7	269.1	267.7	263.9	254.1	252.1	246.3
65°	239.8	241.1	241.8	240.4	241.8	241.1	239.8	237.9	230.7	227.4	222.3
67.5°	211.2	210.6	209.9	212.5	209.9	210.6	211.2	208.6	204.1	201.5	194.3
70°	182.0	182.0	181.3	182.7	181.3	182.0	182.0	180.0	177.4	175.5	169.0
72.5°	150.8	150.1	152.7	150.8	152.7	150.1	150.8	150.1	148.8	146.9	140.4
75°	120.3	121.5	120.3	122.2	120.3	121.5	120.3	120.8	120.3	118.9	114.3
77.5°	91.7	92.9	91.7	91.7	91.7	92.9	91.7	92.2	92.2	92.2	88.4
80°	65.0	64.3	64.3	63.7	64.3	64.3	65.0	65.0	65.6	64.3	63.1
82.5°	41.6	41.0	41.0	42.2	41.0	41.0	41.6	42.2	41.0	41.0	41.0
85°	22.8	23.4	22.1	22.1	22.1	23.4	22.8	21.4	22.8	22.8	22.1
87.5°	8.4	7.8	7.8	7.8	7.8	7.8	8.4	9.1	9.1	9.1	9.8
90°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7
92.5°	57.1	54.8	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9
95°	193.7	186.8	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3
97.5°	447.3	434.2	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9
100°	628.1	612.5	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6
102.5°	782.5	769.1	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4
105°	962.7	955.5	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0
107.5°	1056.4	1058.1	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5
110°	1080.4	1087.9	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6



TEST NUMBER: P934698

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1065.1	1076.7	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5
115°	1013.2	1029.1	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6
117.5°	941.4	959.0	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5
120°	893.0	910.2	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1
122.5°	844.7	861.6	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8
125°	780.7	796.3	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0
127.5°	729.4	742.5	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9
130°	696.9	709.0	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5
132.5°	669.3	680.1	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0
135°	630.2	639.6	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6
137.5°	601.4	609.0	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2
140°	578.2	585.4	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6
142.5°	562.0	568.2	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1
145°	537.7	542.3	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1
147.5°	517.3	521.1	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0
150°	505.5	508.6	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6
152.5°	496.2	498.6	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6
155°	485.1	486.6	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8
157.5°	475.5	476.6	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0
160°	470.7	471.3	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0
162.5°	466.2	466.8	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1
165°	459.3	460.0	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6
167.5°	456.3	456.6	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8
170°	456.3	456.3	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8
172.5°	453.9	453.7	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4
177.5°	450.0	449.7	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	686.9	686.9	686.9	686.9	686.9
2.5°	678.5	681.7	683.6	686.2	692.7
5°	652.4	664.8	668.7	678.5	690.1
7.5°	595.3	633.0	643.3	666.8	685.0
10°	540.0	577.7	595.9	651.2	678.5
12.5°	512.1	534.2	546.5	623.8	669.4
15°	494.6	510.2	519.3	587.5	658.9
17.5°	480.9	492.0	498.5	551.7	644.7
20°	472.5	477.6	483.5	525.8	628.4
22.5°	466.6	463.4	467.9	507.6	606.3
25°	462.7	450.4	455.5	493.2	580.3
27.5°	466.0	438.7	440.6	480.2	553.0
30°	466.6	424.3	425.0	466.6	522.5
32.5°	462.0	409.4	410.1	449.7	488.1
35°	451.0	391.9	391.2	430.2	441.3
37.5°	436.0	373.1	373.1	408.7	389.9
40°	417.8	354.2	356.1	380.8	344.4
42.5°	395.7	334.0	336.6	343.8	310.7
45°	371.7	314.5	316.5	290.5	284.6
47.5°	345.1	294.4	295.1	241.1	276.2
50°	313.3	273.5	271.0	206.7	275.6
52.5°	285.3	250.9	243.0	187.1	250.2
55°	257.9	226.8	209.9	172.2	232.0
57.5°	233.9	195.6	179.4	154.7	228.1
60°	211.8	165.0	152.7	135.9	209.3
62.5°	193.7	142.3	139.7	122.9	189.7
65°	174.1	126.7	126.1	111.8	161.1
67.5°	155.3	116.3	115.7	101.4	122.9
70°	135.2	105.2	104.0	90.3	91.0
72.5°	114.3	92.9	91.7	81.2	75.4
75°	93.6	78.6	78.0	70.8	61.0
77.5°	73.5	62.4	63.7	57.2	44.9
80°	52.6	45.4	46.8	41.0	33.8
82.5°	35.1	29.9	31.2	26.0	22.8
85°	19.5	16.9	17.5	13.7	10.4
87.5°	9.1	7.8	7.8	5.2	3.3
90°	13.3	8.4	7.8	5.4	3.0
92.5°	81.5	57.9	52.8	32.5	12.0
95°	200.6	113.0	103.7	66.3	28.9
97.5°	270.2	124.0	115.8	82.8	49.9
100°	295.4	133.3	125.9	95.9	66.1
102.5°	307.1	142.6	135.7	107.8	79.9
105°	315.7	156.5	150.6	126.9	103.3
107.5°	317.3	176.9	171.4	149.4	127.3
110°	314.9	188.4	183.4	163.5	143.6



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CATALOG NUMBER: SQ4-FA-075U-050D-B35-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	315.0	202.1	197.4	178.5	159.5
115°	317.9	222.9	218.5	201.0	183.5
117.5°	323.8	243.0	239.1	223.2	207.3
120°	328.6	254.8	251.0	236.0	221.1
122.5°	335.5	268.5	264.7	249.7	234.6
125°	344.9	286.2	282.9	269.1	255.3
127.5°	354.2	303.4	299.9	286.0	272.2
130°	361.0	314.8	311.0	296.1	281.2
132.5°	366.5	324.1	320.4	305.4	290.5
135°	372.5	334.9	331.5	317.8	304.3
137.5°	381.5	348.7	345.4	331.9	318.4
140°	387.0	358.0	354.9	342.5	330.1
142.5°	391.6	364.9	362.0	350.6	339.2
145°	397.6	375.5	373.0	363.0	352.9
147.5°	406.4	388.7	386.2	376.5	366.8
150°	411.0	395.6	393.4	384.6	375.8
152.5°	414.1	400.1	398.5	391.8	385.1
155°	420.6	410.0	408.7	403.9	398.9
157.5°	427.2	420.0	418.8	414.0	409.1
160°	430.2	424.4	423.5	419.8	416.0
162.5°	433.4	429.3	428.6	425.8	423.0
165°	438.1	436.1	435.5	432.9	430.4
167.5°	441.7	440.0	439.7	438.5	437.3
170°	444.7	444.6	444.3	443.0	441.9
172.5°	444.9	444.9	444.8	444.6	444.3
175°	446.7	447.6	447.6	447.6	447.6
177.5°	446.9	447.6	447.6	447.6	447.6
180°	447.6	447.6	447.6	447.6	447.6



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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	10.01	10.78	11.07	11.83	13.27	12.81	13.57	13.86	14.63	16.06
	3H	10.48	11.17	11.55	12.23	13.68	14.14	14.82	15.20	15.89	17.34
	4H	10.67	11.32	11.74	12.38	13.84	14.57	15.22	15.65	16.29	17.74
	6H	10.78	11.38	11.87	12.45	13.92	14.84	15.44	15.93	16.51	17.98
	8H	10.78	11.35	11.87	12.44	13.90	14.91	15.48	16.00	16.57	18.03
	12H	10.75	11.29	11.84	12.37	13.86	14.94	15.48	16.03	16.56	18.05
4H	2H	11.03	11.67	12.11	12.74	14.20	13.21	13.86	14.29	14.93	16.38
	3H	12.04	12.58	13.13	13.68	15.15	14.70	15.24	15.78	16.33	17.80
	4H	12.31	12.81	13.41	13.90	15.39	15.21	15.71	16.31	16.79	18.29
	6H	12.43	12.86	13.54	13.97	15.45	15.56	15.99	16.67	17.10	18.58
	8H	12.44	12.84	13.54	13.94	15.44	15.66	16.06	16.77	17.16	18.66
	12H	12.40	12.76	13.52	13.87	15.38	15.71	16.07	16.83	17.18	18.69
8H	4H	12.76	13.15	13.86	14.25	15.75	15.33	15.73	16.43	16.83	18.33
	6H	13.01	13.34	14.14	14.48	15.98	15.75	16.08	16.88	17.23	18.72
	8H	13.05	13.34	14.19	14.47	15.98	15.90	16.19	17.03	17.31	18.83
	12H	13.03	13.29	14.17	14.41	15.96	15.99	16.24	17.12	17.36	18.92
12H	4H	12.76	13.11	13.87	14.23	15.73	15.29	15.65	16.41	16.76	18.27
	6H	13.07	13.36	14.20	14.48	16.00	15.75	16.04	16.88	17.16	18.68
	8H	13.13	13.39	14.27	14.51	16.06	15.90	16.16	17.04	17.28	18.83