

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: P935014

Luminaire Tested: SQ4-FA-100U-050D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935014
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

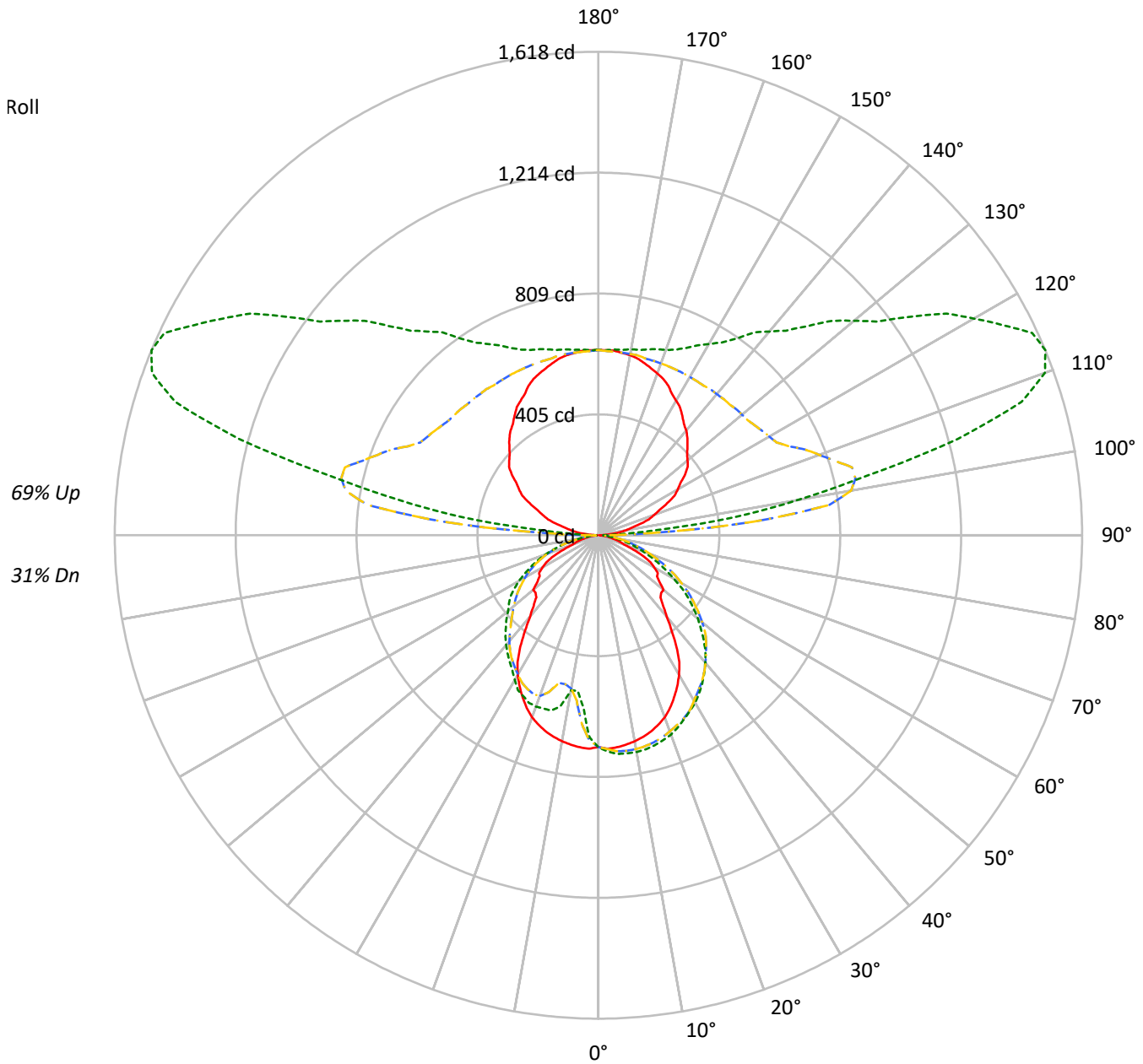
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5858.0 lumens
Efficiency: N/A
Efficacy: 142.2 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): 41.2
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: P935014
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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6578	6578	6578	6578
5°	6619	6640	6619	5221
10°	6569	6541	6569	4677
15°	6489	6399	6489	5343
20°	6346	6231	6346	5355
25°	6061	5986	6061	5241
30°	5695	5783	5695	4992
35°	5070	5526	5070	4718
40°	4217	5224	4217	4511
45°	3760	4869	3760	4273
50°	3987	4447	3987	4034
55°	3739	3991	3739	3897
60°	3842	3389	3842	3569
65°	3466	2802	3466	3132
70°	2384	2233	2384	2626
75°	2066	1651	2066	1977
80°	1633	1092	1633	1188
85°	886	577	886	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5775 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	1.1
10°-20°	181.7	3.1
20°-30°	280.8	4.8
30°-40°	335.3	5.7
40°-50°	337.2	5.8
50°-60°	293.4	5.0
60°-70°	208.1	3.6
70°-80°	110.1	1.9
80°-90°	29.8	0.5
90°-100°	302.1	5.2
100°-110°	794.2	13.6
110°-120°	823.5	14.1
120°-130°	660.6	11.3
130°-140°	518.3	8.8
140°-150°	397.8	6.8
150°-160°	286.5	4.9
160°-170°	175.3	3.0
170°-180°	59.2	1.0
0°-30°	526.5	9.0
0°-40°	861.8	14.7
0°-60°	1492.5	25.5
0°-90°	1840.4	31.4
90°-120°	1919.9	32.8
90°-150°	3496.6	59.7
90°-180°	4018.0	68.6
0°-180°	5858.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	709	709	709	709	709	
5°	712	734	712	577	712	68
15°	680	728	680	608	680	191
25°	599	679	599	594	599	275
35°	455	606	455	517	455	282
45°	294	499	294	438	294	235
55°	239	368	239	360	239	220
65°	166	222	166	248	166	159
75°	63	105	63	126	63	66
85°	11	27	11	23	11	14
90°	4	16	4	16	4	4
95°	40	183	40	183	40	44
105°	143	1244	143	1244	143	152
115°	254	1601	254	1601	254	251
125°	354	1275	354	1275	354	314
135°	421	990	421	990	421	326
145°	489	803	489	803	489	306
155°	552	691	552	691	552	254
165°	596	644	596	644	596	168
175°	620	624	620	624	620	59
180°	620	620	620	620	620	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	714.9	714.9	718.9	720.3	720.3	718.3	716.3	718.3	724.3	726.3	725.6
5°	712.2	717.6	725.0	726.3	727.7	727.0	725.6	727.0	733.7	735.0	735.7
7.5°	706.9	716.9	726.3	728.3	730.3	728.3	727.7	729.0	735.7	737.0	737.0
10°	700.2	714.2	725.0	726.3	728.3	726.3	726.3	729.0	735.7	737.0	737.7
12.5°	690.8	710.2	720.3	721.6	724.3	723.6	723.0	725.6	732.4	733.7	733.7
15°	680.0	702.8	712.2	713.6	718.3	716.9	716.9	719.6	727.0	729.0	728.3
17.5°	665.3	693.5	704.2	706.2	709.6	708.9	709.6	712.2	718.9	720.3	721.0
20°	648.5	680.7	693.5	695.5	698.8	698.8	698.8	702.2	708.9	711.6	711.6
22.5°	625.7	667.3	680.7	682.1	686.1	686.1	687.4	692.1	698.1	698.8	698.8
25°	598.9	652.5	663.9	668.0	672.0	674.0	676.0	678.7	680.7	680.0	680.7
27.5°	570.7	633.8	648.5	651.2	656.6	658.6	661.3	661.9	662.6	664.6	663.3
30°	539.2	607.6	629.7	632.4	641.1	642.5	639.8	641.1	644.5	645.8	647.2
32.5°	503.7	568.7	610.3	616.3	624.4	620.4	619.7	621.7	627.1	627.1	628.4
35°	455.4	538.5	592.2	597.6	603.6	598.9	601.6	602.2	605.6	607.6	606.9
37.5°	402.4	512.4	573.4	577.4	582.1	576.1	580.1	582.1	584.8	583.5	583.5
40°	355.4	471.5	551.3	554.0	558.0	553.3	557.3	558.7	560.0	558.7	558.0
42.5°	320.6	426.5	527.8	531.2	528.5	531.8	533.2	535.9	533.8	531.2	531.2
45°	293.7	414.5	502.3	506.3	502.3	507.7	509.7	509.7	503.7	502.3	501.6
47.5°	285.0	390.3	476.8	476.8	474.8	481.5	484.9	480.2	474.2	472.1	472.1
50°	284.4	363.5	442.0	439.3	448.7	456.7	453.4	448.7	444.0	436.6	436.6
52.5°	258.2	330.6	397.0	407.1	421.8	426.5	421.2	416.5	408.4	405.1	402.4
55°	239.4	296.4	356.1	376.2	391.7	397.7	387.6	382.9	370.9	368.9	367.5
57.5°	235.4	246.8	318.6	344.0	362.8	362.2	356.1	347.4	337.3	335.3	334.7
60°	216.0	178.4	278.3	308.5	327.9	325.9	320.6	312.5	303.1	301.8	300.5
62.5°	195.8	129.4	232.7	266.9	294.4	293.7	289.1	277.0	270.3	266.9	264.2
65°	166.3	108.6	165.7	222.0	261.6	262.9	252.8	244.1	236.7	232.7	232.0
67.5°	126.8	88.5	112.0	185.1	230.0	228.7	216.0	211.9	202.5	200.5	196.5
70°	93.9	59.0	77.8	150.2	199.2	195.8	185.8	181.1	172.4	167.7	165.0
72.5°	77.8	47.6	57.0	116.7	167.7	163.6	154.9	149.6	142.2	138.2	135.5
75°	63.0	50.3	43.6	86.5	136.1	133.5	125.4	120.0	114.0	108.6	109.3
77.5°	46.3	46.9	34.9	63.7	108.0	104.0	99.3	92.6	89.9	84.5	84.5
80°	34.9	36.9	26.2	43.6	77.8	77.8	73.8	69.1	64.4	61.7	61.7
82.5°	23.5	23.5	19.4	27.5	53.0	51.0	48.3	46.9	44.3	42.9	42.9
85°	10.7	13.4	12.1	16.8	28.8	30.2	30.2	28.8	28.2	26.8	27.5
87.5°	3.4	6.0	7.4	9.4	14.8	15.4	16.1	16.1	16.1	16.8	16.8
90°	4.2	7.5	10.8	11.6	18.3	27.2	31.6	28.1	21.1	15.8	15.8
92.5°	16.6	44.9	73.2	80.3	112.9	156.3	178.0	156.0	112.0	79.0	75.9
95°	39.9	91.7	143.5	156.4	277.7	439.4	520.3	464.3	352.3	268.3	258.8
97.5°	69.0	114.7	160.4	171.8	374.1	643.8	778.6	743.2	672.4	619.3	601.2
100°	91.5	132.9	174.3	184.7	409.2	708.5	858.1	860.7	865.8	869.7	848.1
102.5°	110.6	149.3	187.9	197.6	425.3	728.8	880.6	925.7	1015.9	1083.5	1065.0
105°	143.1	175.8	208.5	216.7	437.2	731.1	878.1	979.2	1181.4	1333.1	1323.2
107.5°	176.4	206.9	237.4	245.0	439.4	698.5	828.1	969.2	1251.3	1462.9	1465.3
110°	198.8	226.4	253.9	260.8	436.0	669.7	786.5	944.2	1259.6	1496.1	1506.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.9	247.1	273.3	279.9	436.2	644.5	748.7	910.1	1232.8	1474.9	1490.8
115°	254.1	278.3	302.5	308.6	440.2	615.7	703.4	858.9	1169.8	1403.0	1425.0
117.5°	287.0	309.0	331.0	336.5	448.4	597.6	672.2	812.5	1093.1	1303.6	1328.0
120°	306.1	326.8	347.5	352.7	455.0	591.5	659.7	787.9	1044.3	1236.6	1260.4
122.5°	324.9	345.8	366.7	371.9	464.6	588.3	650.1	765.5	996.4	1169.6	1193.0
125°	353.6	372.6	391.6	396.4	477.5	585.6	639.7	737.8	933.9	1081.0	1102.6
127.5°	376.8	396.0	415.3	420.1	490.4	584.1	631.0	715.2	883.6	1009.9	1028.1
130°	389.3	410.0	430.7	435.9	499.8	585.1	627.7	702.7	852.6	965.0	981.8
132.5°	402.2	422.9	443.6	448.8	507.4	585.6	624.7	691.8	826.0	926.7	941.8
135°	421.4	440.2	459.1	463.8	515.8	585.1	619.8	676.0	788.3	872.6	885.6
137.5°	440.9	459.6	478.2	482.9	528.2	588.7	618.9	666.4	761.4	832.7	843.3
140°	457.1	474.3	491.5	495.8	535.9	589.3	616.0	657.0	739.1	800.7	810.6
142.5°	469.6	485.5	501.4	505.4	542.3	591.4	616.0	652.0	724.1	778.2	786.8
145°	488.7	502.6	516.4	519.9	550.6	591.5	611.9	641.4	700.3	744.5	751.0
147.5°	507.9	521.4	534.8	538.2	562.8	595.5	611.9	635.1	681.5	716.3	721.7
150°	520.3	532.5	544.7	547.8	569.2	597.7	611.9	631.5	670.6	700.0	704.3
152.5°	533.2	542.4	551.7	554.0	573.3	599.0	611.9	628.6	662.0	687.1	690.4
155°	552.4	559.2	566.1	567.8	582.5	602.1	611.9	625.2	651.8	671.7	673.9
157.5°	566.5	573.2	579.8	581.5	591.6	605.1	611.9	622.2	642.9	658.4	659.9
160°	576.1	581.3	586.4	587.7	595.8	606.5	611.9	620.8	638.5	651.8	652.7
162.5°	585.6	589.5	593.4	594.4	600.2	608.0	611.9	619.4	634.3	645.5	646.3
165°	596.0	599.5	603.0	603.9	606.6	610.1	611.9	617.3	628.0	636.0	636.9
167.5°	605.6	607.3	609.0	609.4	611.6	614.5	616.0	619.5	626.5	631.8	632.2
170°	611.9	613.5	615.2	615.6	615.7	615.9	616.0	619.5	626.5	631.8	631.8
172.5°	615.2	615.6	615.9	616.0	616.0	616.0	616.0	618.8	624.3	628.5	628.2
175°	619.8	619.8	619.8	619.8	618.5	616.8	616.0	617.8	621.3	623.9	623.9
177.5°	619.8	619.8	619.8	619.8	618.8	617.5	616.8	618.2	621.0	623.1	622.7
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	727.0	725.0	727.0	725.6	726.3	724.3	718.3	716.3	718.3	720.3	720.3
5°	735.7	734.4	735.7	735.7	735.0	733.7	727.0	725.6	727.0	727.7	726.3
7.5°	738.4	736.4	738.4	737.0	737.0	735.7	729.0	727.7	728.3	730.3	728.3
10°	738.4	736.4	738.4	737.7	737.0	735.7	729.0	726.3	726.3	728.3	726.3
12.5°	735.0	733.7	735.0	733.7	733.7	732.4	725.6	723.0	723.6	724.3	721.6
15°	729.7	727.7	729.7	728.3	729.0	727.0	719.6	716.9	716.9	718.3	713.6
17.5°	721.6	718.9	721.6	721.0	720.3	718.9	712.2	709.6	708.9	709.6	706.2
20°	712.2	710.2	712.2	711.6	711.6	708.9	702.2	698.8	698.8	698.8	695.5
22.5°	697.5	695.5	697.5	698.8	698.8	698.1	692.1	687.4	686.1	686.1	682.1
25°	680.7	678.7	680.7	680.7	680.0	680.7	678.7	676.0	674.0	672.0	668.0
27.5°	664.6	663.3	664.6	663.3	664.6	662.6	661.9	661.3	658.6	656.6	651.2
30°	648.5	647.2	648.5	647.2	645.8	644.5	641.1	639.8	642.5	641.1	632.4
32.5°	628.4	627.1	628.4	628.4	627.1	627.1	621.7	619.7	620.4	624.4	616.3
35°	607.6	605.6	607.6	606.9	607.6	605.6	602.2	601.6	598.9	603.6	597.6
37.5°	583.5	581.5	583.5	583.5	583.5	584.8	582.1	580.1	576.1	582.1	577.4
40°	558.7	556.0	558.7	558.0	558.7	560.0	558.7	557.3	553.3	558.0	554.0
42.5°	530.5	529.8	530.5	531.2	531.2	533.8	535.9	533.2	531.8	528.5	531.2
45°	500.3	499.0	500.3	501.6	502.3	503.7	509.7	509.7	507.7	502.3	506.3
47.5°	468.1	464.8	468.1	472.1	472.1	474.2	480.2	484.9	481.5	474.8	476.8
50°	433.9	434.6	433.9	436.6	436.6	444.0	448.7	453.4	456.7	448.7	439.3
52.5°	400.4	399.7	400.4	402.4	405.1	408.4	416.5	421.2	426.5	421.8	407.1
55°	366.8	368.2	366.8	367.5	368.9	370.9	382.9	387.6	397.7	391.7	376.2
57.5°	333.3	331.3	333.3	334.7	335.3	337.3	347.4	356.1	362.2	362.8	344.0
60°	294.4	291.7	294.4	300.5	301.8	303.1	312.5	320.6	325.9	327.9	308.5
62.5°	260.2	255.5	260.2	264.2	266.9	270.3	277.0	289.1	293.7	294.4	266.9
65°	224.0	222.0	224.0	232.0	232.7	236.7	244.1	252.8	262.9	261.6	222.0
67.5°	191.1	191.1	191.1	196.5	200.5	202.5	211.9	216.0	228.7	230.0	185.1
70°	161.0	160.3	161.0	165.0	167.7	172.4	181.1	185.8	195.8	199.2	150.2
72.5°	132.1	131.4	132.1	135.5	138.2	142.2	149.6	154.9	163.6	167.7	116.7
75°	106.6	105.3	106.6	109.3	108.6	114.0	120.0	125.4	133.5	136.1	86.5
77.5°	81.8	81.8	81.8	84.5	84.5	89.9	92.6	99.3	104.0	108.0	63.7
80°	61.0	60.4	61.0	61.7	61.7	64.4	69.1	73.8	77.8	77.8	43.6
82.5°	42.9	41.6	42.9	42.9	42.9	44.3	46.9	48.3	51.0	53.0	27.5
85°	26.8	26.8	26.8	27.5	26.8	28.2	28.8	30.2	30.2	28.8	16.8
87.5°	17.4	16.8	17.4	16.8	16.8	16.1	16.1	16.1	15.4	14.8	9.4
90°	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.2	18.3	11.6
92.5°	63.3	50.7	63.3	75.9	79.0	112.0	156.0	178.0	156.3	112.9	80.3
95°	220.7	182.6	220.7	258.8	268.3	352.3	464.3	520.3	439.4	277.7	156.4
97.5°	528.7	456.3	528.7	601.2	619.3	672.4	743.2	778.6	643.8	374.1	171.8
100°	761.8	675.5	761.8	848.1	869.7	865.8	860.7	858.1	708.5	409.2	184.7
102.5°	991.1	917.2	991.1	1065.0	1083.5	1015.9	925.7	880.6	728.8	425.3	197.6
105°	1283.4	1243.7	1283.4	1323.2	1333.1	1181.4	979.2	878.1	731.1	437.2	216.7
107.5°	1474.9	1484.5	1474.9	1465.3	1462.9	1251.3	969.2	828.1	698.5	439.4	245.0
110°	1547.9	1589.3	1547.9	1506.5	1496.1	1259.6	944.2	786.5	669.7	436.0	260.8



TEST NUMBER: P935014

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1554.4	1618.0	1554.4	1490.8	1474.9	1232.8	910.1	748.7	644.5	436.2	279.9
115°	1513.2	1601.4	1513.2	1425.0	1403.0	1169.8	858.9	703.4	615.7	440.2	308.6
117.5°	1425.8	1523.6	1425.8	1328.0	1303.6	1093.1	812.5	672.2	597.6	448.4	336.5
120°	1355.4	1450.4	1355.4	1260.4	1236.6	1044.3	787.9	659.7	591.5	455.0	352.7
122.5°	1286.8	1380.5	1286.8	1193.0	1169.6	996.4	765.5	650.1	588.3	464.6	371.9
125°	1188.9	1275.3	1188.9	1102.6	1081.0	933.9	737.8	639.7	585.6	477.5	396.4
127.5°	1101.0	1173.8	1101.0	1028.1	1009.9	883.6	715.2	631.0	584.1	490.4	420.1
130°	1049.1	1116.4	1049.1	981.8	965.0	852.6	702.7	627.7	585.1	499.8	435.9
132.5°	1002.0	1062.3	1002.0	941.8	926.7	826.0	691.8	624.7	585.6	507.4	448.8
135°	937.5	989.5	937.5	885.6	872.6	788.3	676.0	619.8	585.1	515.8	463.8
137.5°	885.9	928.4	885.9	843.3	832.7	761.4	666.4	618.9	588.7	528.2	482.9
140°	850.4	890.1	850.4	810.6	800.7	739.1	657.0	616.0	589.3	535.9	495.8
142.5°	821.0	855.2	821.0	786.8	778.2	724.1	652.0	616.0	591.4	542.3	505.4
145°	776.9	802.8	776.9	751.0	744.5	700.3	641.4	611.9	591.5	550.6	519.9
147.5°	743.1	764.5	743.1	721.7	716.3	681.5	635.1	611.9	595.5	562.8	538.2
150°	721.7	739.1	721.7	704.3	700.0	670.6	631.5	611.9	597.7	569.2	547.8
152.5°	703.5	716.7	703.5	690.4	687.1	662.0	628.6	611.9	599.0	573.3	554.0
155°	682.6	691.3	682.6	673.9	671.7	651.8	625.2	611.9	602.1	582.5	567.8
157.5°	666.1	672.2	666.1	659.9	658.4	642.9	622.2	611.9	605.1	591.6	581.5
160°	656.2	659.7	656.2	652.7	651.8	638.5	620.8	611.9	606.5	595.8	587.7
162.5°	649.7	653.0	649.7	646.3	645.5	634.3	619.4	611.9	608.0	600.2	594.4
165°	640.4	643.9	640.4	636.9	636.0	628.0	617.3	611.9	610.1	606.6	603.9
167.5°	633.6	635.1	633.6	632.2	631.8	626.5	619.5	616.0	614.5	611.6	609.4
170°	631.8	631.8	631.8	631.8	631.8	626.5	619.5	616.0	615.9	615.7	615.6
172.5°	626.9	625.6	626.9	628.2	628.5	624.3	618.8	616.0	616.0	616.0	616.0
175°	623.9	623.9	623.9	623.9	623.9	621.3	617.8	616.0	616.8	618.5	619.8
177.5°	621.3	619.8	621.3	622.7	623.1	621.0	618.2	616.8	617.5	618.8	619.8
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935014

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	718.9	714.9	714.9	708.2	705.5	703.5	700.2	690.1	687.4	684.7	688.8
5°	725.0	717.6	712.2	700.2	690.1	686.1	673.3	649.2	633.1	621.0	614.3
7.5°	726.3	716.9	706.9	688.1	663.9	653.2	614.3	570.1	558.0	547.3	540.5
10°	725.0	714.2	700.2	672.0	615.0	596.2	557.3	528.5	521.1	519.1	521.1
12.5°	720.3	710.2	690.8	643.8	564.0	551.3	528.5	511.7	510.4	513.7	531.8
15°	712.2	702.8	680.0	606.3	535.9	526.5	510.4	504.3	511.7	535.2	589.5
17.5°	704.2	693.5	665.3	569.4	514.4	507.7	496.3	508.4	549.9	581.5	599.6
20°	693.5	680.7	648.5	542.6	499.0	492.9	487.6	541.9	573.4	584.8	594.9
22.5°	680.7	667.3	625.7	523.8	482.9	478.2	481.5	560.7	573.4	581.5	590.2
25°	663.9	652.5	598.9	509.0	470.1	464.8	477.5	558.7	566.0	568.0	585.5
27.5°	648.5	633.8	570.7	495.6	454.7	452.7	480.9	549.9	555.3	557.3	576.1
30°	629.7	607.6	539.2	481.5	438.6	437.9	481.5	539.2	537.9	543.2	562.0
32.5°	610.3	568.7	503.7	464.1	423.2	422.5	476.8	523.1	521.8	529.1	543.2
35°	592.2	538.5	455.4	444.0	403.7	404.4	465.4	504.3	505.0	511.7	520.4
37.5°	573.4	512.4	402.4	421.8	385.0	385.0	450.0	486.9	485.6	487.6	499.6
40°	551.3	471.5	355.4	393.0	367.5	365.5	431.2	468.1	463.4	462.8	479.5
42.5°	527.8	426.5	320.6	354.8	347.4	344.7	408.4	445.3	436.6	438.6	460.1
45°	502.3	414.5	293.7	299.8	326.6	324.6	383.6	419.2	413.1	418.5	440.6
47.5°	476.8	390.3	285.0	248.8	304.5	303.8	356.1	393.7	390.3	395.7	419.2
50°	442.0	363.5	284.4	213.3	279.7	282.3	323.3	368.9	368.9	373.6	398.4
52.5°	397.0	330.6	258.2	193.1	250.8	258.9	294.4	347.4	348.7	353.4	375.6
55°	356.1	296.4	239.4	177.7	216.6	234.1	266.2	325.3	327.9	332.6	352.8
57.5°	318.6	246.8	235.4	159.6	185.1	201.9	241.4	303.8	305.1	309.2	328.6
60°	278.3	178.4	216.0	140.2	157.6	170.3	218.6	278.3	283.0	285.7	302.5
62.5°	232.7	129.4	195.8	126.8	144.2	146.9	199.9	254.2	260.2	262.2	272.3
65°	165.7	108.6	166.3	115.4	130.1	130.8	179.7	229.4	234.7	238.1	245.5
67.5°	112.0	88.5	126.8	104.6	119.4	120.0	160.3	200.5	207.9	210.6	215.3
70°	77.8	59.0	93.9	93.2	107.3	108.6	139.5	174.4	181.1	183.1	185.8
72.5°	57.0	47.6	77.8	83.8	94.6	95.9	118.0	144.9	151.6	153.6	154.9
75°	43.6	50.3	63.0	73.1	80.5	81.1	96.6	118.0	122.7	124.1	124.7
77.5°	34.9	46.9	46.3	59.0	65.7	64.4	75.8	91.2	95.2	95.2	95.2
80°	26.2	36.9	34.9	42.3	48.3	46.9	54.3	65.1	66.4	67.7	67.1
82.5°	19.4	23.5	23.5	26.8	32.2	30.9	36.2	42.3	42.3	42.3	43.6
85°	12.1	13.4	10.7	14.1	18.1	17.4	20.1	22.8	23.5	23.5	22.1
87.5°	7.4	6.0	3.4	5.4	8.0	8.0	9.4	10.1	9.4	9.4	9.4
90°	10.8	7.5	4.2	7.5	10.8	11.6	18.3	27.2	31.6	28.1	21.1
92.5°	73.2	44.9	16.6	44.9	73.2	80.3	112.9	156.3	178.0	156.0	112.0
95°	143.5	91.7	39.9	91.7	143.5	156.4	277.7	439.4	520.3	464.3	352.3
97.5°	160.4	114.7	69.0	114.7	160.4	171.8	374.1	643.8	778.6	743.2	672.4
100°	174.3	132.9	91.5	132.9	174.3	184.7	409.2	708.5	858.1	860.7	865.8
102.5°	187.9	149.3	110.6	149.3	187.9	197.6	425.3	728.8	880.6	925.7	1015.9
105°	208.5	175.8	143.1	175.8	208.5	216.7	437.2	731.1	878.1	979.2	1181.4
107.5°	237.4	206.9	176.4	206.9	237.4	245.0	439.4	698.5	828.1	969.2	1251.3
110°	253.9	226.4	198.8	226.4	253.9	260.8	436.0	669.7	786.5	944.2	1259.6



TEST NUMBER: P935014

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	273.3	247.1	220.9	247.1	273.3	279.9	436.2	644.5	748.7	910.1	1232.8
115°	302.5	278.3	254.1	278.3	302.5	308.6	440.2	615.7	703.4	858.9	1169.8
117.5°	331.0	309.0	287.0	309.0	331.0	336.5	448.4	597.6	672.2	812.5	1093.1
120°	347.5	326.8	306.1	326.8	347.5	352.7	455.0	591.5	659.7	787.9	1044.3
122.5°	366.7	345.8	324.9	345.8	366.7	371.9	464.6	588.3	650.1	765.5	996.4
125°	391.6	372.6	353.6	372.6	391.6	396.4	477.5	585.6	639.7	737.8	933.9
127.5°	415.3	396.0	376.8	396.0	415.3	420.1	490.4	584.1	631.0	715.2	883.6
130°	430.7	410.0	389.3	410.0	430.7	435.9	499.8	585.1	627.7	702.7	852.6
132.5°	443.6	422.9	402.2	422.9	443.6	448.8	507.4	585.6	624.7	691.8	826.0
135°	459.1	440.2	421.4	440.2	459.1	463.8	515.8	585.1	619.8	676.0	788.3
137.5°	478.2	459.6	440.9	459.6	478.2	482.9	528.2	588.7	618.9	666.4	761.4
140°	491.5	474.3	457.1	474.3	491.5	495.8	535.9	589.3	616.0	657.0	739.1
142.5°	501.4	485.5	469.6	485.5	501.4	505.4	542.3	591.4	616.0	652.0	724.1
145°	516.4	502.6	488.7	502.6	516.4	519.9	550.6	591.5	611.9	641.4	700.3
147.5°	534.8	521.4	507.9	521.4	534.8	538.2	562.8	595.5	611.9	635.1	681.5
150°	544.7	532.5	520.3	532.5	544.7	547.8	569.2	597.7	611.9	631.5	670.6
152.5°	551.7	542.4	533.2	542.4	551.7	554.0	573.3	599.0	611.9	628.6	662.0
155°	566.1	559.2	552.4	559.2	566.1	567.8	582.5	602.1	611.9	625.2	651.8
157.5°	579.8	573.2	566.5	573.2	579.8	581.5	591.6	605.1	611.9	622.2	642.9
160°	586.4	581.3	576.1	581.3	586.4	587.7	595.8	606.5	611.9	620.8	638.5
162.5°	593.4	589.5	585.6	589.5	593.4	594.4	600.2	608.0	611.9	619.4	634.3
165°	603.0	599.5	596.0	599.5	603.0	603.9	606.6	610.1	611.9	617.3	628.0
167.5°	609.0	607.3	605.6	607.3	609.0	609.4	611.6	614.5	616.0	619.5	626.5
170°	615.2	613.5	611.9	613.5	615.2	615.6	615.7	615.9	616.0	619.5	626.5
172.5°	615.9	615.6	615.2	615.6	615.9	616.0	616.0	616.0	616.0	618.8	624.3
175°	619.8	619.8	619.8	619.8	619.8	619.8	618.5	616.8	616.0	617.8	621.3
177.5°	619.8	619.8	619.8	619.8	619.8	619.8	618.8	617.5	616.8	618.2	621.0
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935014
 CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9	708.9
2.5°	684.1	682.1	684.7	677.4	684.7	682.1	684.1	688.8	684.7	687.4	690.1
5°	600.2	596.9	586.2	577.4	586.2	596.9	600.2	614.3	621.0	633.1	649.2
7.5°	536.5	533.8	531.2	525.8	531.2	533.8	536.5	540.5	547.3	558.0	570.1
10°	522.4	523.1	527.1	526.5	527.1	523.1	522.4	521.1	519.1	521.1	528.5
12.5°	558.7	564.7	586.8	585.5	586.8	564.7	558.7	531.8	513.7	510.4	511.7
15°	600.2	602.2	606.9	607.6	606.9	602.2	600.2	589.5	535.2	511.7	504.3
17.5°	604.3	604.9	608.3	608.3	608.3	604.9	604.3	599.6	581.5	549.9	508.4
20°	600.9	602.2	609.0	610.3	609.0	602.2	600.9	594.9	584.8	573.4	541.9
22.5°	599.6	602.2	607.6	606.9	607.6	602.2	599.6	590.2	581.5	573.4	560.7
25°	592.9	592.9	593.5	594.2	593.5	592.9	592.9	585.5	568.0	566.0	558.7
27.5°	578.8	580.1	584.1	583.5	584.1	580.1	578.8	576.1	557.3	555.3	549.9
30°	566.0	564.7	561.3	558.7	561.3	564.7	566.0	562.0	543.2	537.9	539.2
32.5°	544.6	541.2	537.9	535.9	537.9	541.2	544.6	543.2	529.1	521.8	523.1
35°	519.1	519.8	519.1	517.1	519.1	519.8	519.1	520.4	511.7	505.0	504.3
37.5°	501.0	502.3	501.6	499.0	501.6	502.3	501.0	499.6	487.6	485.6	486.9
40°	482.2	482.9	482.2	480.2	482.2	482.9	482.2	479.5	462.8	463.4	468.1
42.5°	464.1	463.4	461.4	460.1	461.4	463.4	464.1	460.1	438.6	436.6	445.3
45°	443.3	444.0	439.9	437.9	439.9	444.0	443.3	440.6	418.5	413.1	419.2
47.5°	422.5	422.5	419.2	417.1	419.2	422.5	422.5	419.2	395.7	390.3	393.7
50°	400.4	399.7	395.0	394.3	395.0	399.7	400.4	398.4	373.6	368.9	368.9
52.5°	374.9	374.9	375.6	376.9	375.6	374.9	374.9	375.6	353.4	348.7	347.4
55°	352.8	353.4	358.1	359.5	358.1	353.4	352.8	352.8	332.6	327.9	325.3
57.5°	330.0	330.0	333.3	333.3	333.3	330.0	330.0	328.6	309.2	305.1	303.8
60°	303.8	305.1	307.8	307.2	307.8	305.1	303.8	302.5	285.7	283.0	278.3
62.5°	276.3	277.7	278.3	277.0	278.3	277.7	276.3	272.3	262.2	260.2	254.2
65°	247.5	248.8	249.5	248.1	249.5	248.8	247.5	245.5	238.1	234.7	229.4
67.5°	218.0	217.3	216.6	219.3	216.6	217.3	218.0	215.3	210.6	207.9	200.5
70°	187.8	187.8	187.1	188.5	187.1	187.8	187.8	185.8	183.1	181.1	174.4
72.5°	155.6	154.9	157.6	155.6	157.6	154.9	155.6	154.9	153.6	151.6	144.9
75°	124.1	125.4	124.1	126.1	124.1	125.4	124.1	124.7	124.1	122.7	118.0
77.5°	94.6	95.9	94.6	94.6	94.6	95.9	94.6	95.2	95.2	95.2	91.2
80°	67.1	66.4	66.4	65.7	66.4	66.4	67.1	67.1	67.7	66.4	65.1
82.5°	42.9	42.3	42.3	43.6	42.3	42.3	42.9	43.6	42.3	42.3	42.3
85°	23.5	24.1	22.8	22.8	22.8	24.1	23.5	22.1	23.5	23.5	22.8
87.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.7	9.4	9.4	9.4	10.1
90°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	21.1	28.1	31.6	27.2
92.5°	79.0	75.9	63.3	50.7	63.3	75.9	79.0	112.0	156.0	178.0	156.3
95°	268.3	258.8	220.7	182.6	220.7	258.8	268.3	352.3	464.3	520.3	439.4
97.5°	619.3	601.2	528.7	456.3	528.7	601.2	619.3	672.4	743.2	778.6	643.8
100°	869.7	848.1	761.8	675.5	761.8	848.1	869.7	865.8	860.7	858.1	708.5
102.5°	1083.5	1065.0	991.1	917.2	991.1	1065.0	1083.5	1015.9	925.7	880.6	728.8
105°	1333.1	1323.2	1283.4	1243.7	1283.4	1323.2	1333.1	1181.4	979.2	878.1	731.1
107.5°	1462.9	1465.3	1474.9	1484.5	1474.9	1465.3	1462.9	1251.3	969.2	828.1	698.5
110°	1496.1	1506.5	1547.9	1589.3	1547.9	1506.5	1496.1	1259.6	944.2	786.5	669.7



TEST NUMBER: P935014

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1474.9	1490.8	1554.4	1618.0	1554.4	1490.8	1474.9	1232.8	910.1	748.7	644.5
115°	1403.0	1425.0	1513.2	1601.4	1513.2	1425.0	1403.0	1169.8	858.9	703.4	615.7
117.5°	1303.6	1328.0	1425.8	1523.6	1425.8	1328.0	1303.6	1093.1	812.5	672.2	597.6
120°	1236.6	1260.4	1355.4	1450.4	1355.4	1260.4	1236.6	1044.3	787.9	659.7	591.5
122.5°	1169.6	1193.0	1286.8	1380.5	1286.8	1193.0	1169.6	996.4	765.5	650.1	588.3
125°	1081.0	1102.6	1188.9	1275.3	1188.9	1102.6	1081.0	933.9	737.8	639.7	585.6
127.5°	1009.9	1028.1	1101.0	1173.8	1101.0	1028.1	1009.9	883.6	715.2	631.0	584.1
130°	965.0	981.8	1049.1	1116.4	1049.1	981.8	965.0	852.6	702.7	627.7	585.1
132.5°	926.7	941.8	1002.0	1062.3	1002.0	941.8	926.7	826.0	691.8	624.7	585.6
135°	872.6	885.6	937.5	989.5	937.5	885.6	872.6	788.3	676.0	619.8	585.1
137.5°	832.7	843.3	885.9	928.4	885.9	843.3	832.7	761.4	666.4	618.9	588.7
140°	800.7	810.6	850.4	890.1	850.4	810.6	800.7	739.1	657.0	616.0	589.3
142.5°	778.2	786.8	821.0	855.2	821.0	786.8	778.2	724.1	652.0	616.0	591.4
145°	744.5	751.0	776.9	802.8	776.9	751.0	744.5	700.3	641.4	611.9	591.5
147.5°	716.3	721.7	743.1	764.5	743.1	721.7	716.3	681.5	635.1	611.9	595.5
150°	700.0	704.3	721.7	739.1	721.7	704.3	700.0	670.6	631.5	611.9	597.7
152.5°	687.1	690.4	703.5	716.7	703.5	690.4	687.1	662.0	628.6	611.9	599.0
155°	671.7	673.9	682.6	691.3	682.6	673.9	671.7	651.8	625.2	611.9	602.1
157.5°	658.4	659.9	666.1	672.2	666.1	659.9	658.4	642.9	622.2	611.9	605.1
160°	651.8	652.7	656.2	659.7	656.2	652.7	651.8	638.5	620.8	611.9	606.5
162.5°	645.5	646.3	649.7	653.0	649.7	646.3	645.5	634.3	619.4	611.9	608.0
165°	636.0	636.9	640.4	643.9	640.4	636.9	636.0	628.0	617.3	611.9	610.1
167.5°	631.8	632.2	633.6	635.1	633.6	632.2	631.8	626.5	619.5	616.0	614.5
170°	631.8	631.8	631.8	631.8	631.8	631.8	631.8	626.5	619.5	616.0	615.9
172.5°	628.5	628.2	626.9	625.6	626.9	628.2	628.5	624.3	618.8	616.0	616.0
175°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	621.3	617.8	616.0	616.8
177.5°	623.1	622.7	621.3	619.8	621.3	622.7	623.1	621.0	618.2	616.8	617.5
180°	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935014

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	708.9	708.9	708.9	708.9	708.9
2.5°	700.2	703.5	705.5	708.2	714.9
5°	673.3	686.1	690.1	700.2	712.2
7.5°	614.3	653.2	663.9	688.1	706.9
10°	557.3	596.2	615.0	672.0	700.2
12.5°	528.5	551.3	564.0	643.8	690.8
15°	510.4	526.5	535.9	606.3	680.0
17.5°	496.3	507.7	514.4	569.4	665.3
20°	487.6	492.9	499.0	542.6	648.5
22.5°	481.5	478.2	482.9	523.8	625.7
25°	477.5	464.8	470.1	509.0	598.9
27.5°	480.9	452.7	454.7	495.6	570.7
30°	481.5	437.9	438.6	481.5	539.2
32.5°	476.8	422.5	423.2	464.1	503.7
35°	465.4	404.4	403.7	444.0	455.4
37.5°	450.0	385.0	385.0	421.8	402.4
40°	431.2	365.5	367.5	393.0	355.4
42.5°	408.4	344.7	347.4	354.8	320.6
45°	383.6	324.6	326.6	299.8	293.7
47.5°	356.1	303.8	304.5	248.8	285.0
50°	323.3	282.3	279.7	213.3	284.4
52.5°	294.4	258.9	250.8	193.1	258.2
55°	266.2	234.1	216.6	177.7	239.4
57.5°	241.4	201.9	185.1	159.6	235.4
60°	218.6	170.3	157.6	140.2	216.0
62.5°	199.9	146.9	144.2	126.8	195.8
65°	179.7	130.8	130.1	115.4	166.3
67.5°	160.3	120.0	119.4	104.6	126.8
70°	139.5	108.6	107.3	93.2	93.9
72.5°	118.0	95.9	94.6	83.8	77.8
75°	96.6	81.1	80.5	73.1	63.0
77.5°	75.8	64.4	65.7	59.0	46.3
80°	54.3	46.9	48.3	42.3	34.9
82.5°	36.2	30.9	32.2	26.8	23.5
85°	20.1	17.4	18.1	14.1	10.7
87.5°	9.4	8.0	8.0	5.4	3.4
90°	18.3	11.6	10.8	7.5	4.2
92.5°	112.9	80.3	73.2	44.9	16.6
95°	277.7	156.4	143.5	91.7	39.9
97.5°	374.1	171.8	160.4	114.7	69.0
100°	409.2	184.7	174.3	132.9	91.5
102.5°	425.3	197.6	187.9	149.3	110.6
105°	437.2	216.7	208.5	175.8	143.1
107.5°	439.4	245.0	237.4	206.9	176.4
110°	436.0	260.8	253.9	226.4	198.8



TEST NUMBER: P935014

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	436.2	279.9	273.3	247.1	220.9
115°	440.2	308.6	302.5	278.3	254.1
117.5°	448.4	336.5	331.0	309.0	287.0
120°	455.0	352.7	347.5	326.8	306.1
122.5°	464.6	371.9	366.7	345.8	324.9
125°	477.5	396.4	391.6	372.6	353.6
127.5°	490.4	420.1	415.3	396.0	376.8
130°	499.8	435.9	430.7	410.0	389.3
132.5°	507.4	448.8	443.6	422.9	402.2
135°	515.8	463.8	459.1	440.2	421.4
137.5°	528.2	482.9	478.2	459.6	440.9
140°	535.9	495.8	491.5	474.3	457.1
142.5°	542.3	505.4	501.4	485.5	469.6
145°	550.6	519.9	516.4	502.6	488.7
147.5°	562.8	538.2	534.8	521.4	507.9
150°	569.2	547.8	544.7	532.5	520.3
152.5°	573.3	554.0	551.7	542.4	533.2
155°	582.5	567.8	566.1	559.2	552.4
157.5°	591.6	581.5	579.8	573.2	566.5
160°	595.8	587.7	586.4	581.3	576.1
162.5°	600.2	594.4	593.4	589.5	585.6
165°	606.6	603.9	603.0	599.5	596.0
167.5°	611.6	609.4	609.0	607.3	605.6
170°	615.7	615.6	615.2	613.5	611.9
172.5°	616.0	616.0	615.9	615.6	615.2
175°	618.5	619.8	619.8	619.8	619.8
177.5°	618.8	619.8	619.8	619.8	619.8
180°	619.8	619.8	619.8	619.8	619.8



TEST NUMBER: P935014
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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	9.31	10.03	10.42	11.13	12.64	12.11	12.83	13.21	13.93	15.44
	3H	9.78	10.42	10.89	11.53	13.06	13.44	14.08	14.55	15.18	16.71
	4H	9.96	10.57	11.09	11.68	13.22	13.87	14.48	14.99	15.58	17.12
	6H	10.08	10.64	11.21	11.75	13.29	14.14	14.70	15.27	15.81	17.35
	8H	10.07	10.61	11.21	11.73	13.27	14.20	14.73	15.33	15.86	17.40
	12H	10.04	10.54	11.18	11.66	13.23	14.23	14.74	15.37	15.86	17.42
4H	2H	10.32	10.93	11.45	12.04	13.57	12.50	13.11	13.63	14.22	15.76
	3H	11.33	11.84	12.47	12.97	14.52	13.99	14.49	15.12	15.63	17.18
	4H	11.60	12.07	12.74	13.19	14.76	14.50	14.97	15.64	16.09	17.66
	6H	11.72	12.12	12.86	13.27	14.83	14.85	15.25	15.99	16.40	17.96
	8H	11.72	12.10	12.87	13.23	14.81	14.95	15.32	16.09	16.46	18.04
	12H	11.68	12.02	12.84	13.17	14.75	14.99	15.33	16.15	16.48	18.06
8H	4H	12.04	12.41	13.18	13.55	15.13	14.62	14.99	15.76	16.13	17.70
	6H	12.30	12.60	13.46	13.78	15.36	15.04	15.35	16.20	16.53	18.10
	8H	12.34	12.61	13.51	13.76	15.36	15.18	15.45	16.35	16.61	18.20
	12H	12.31	12.55	13.49	13.71	15.33	15.27	15.50	16.44	16.66	18.29
12H	4H	12.04	12.38	13.20	13.53	15.11	14.57	14.91	15.73	16.06	17.64
	6H	12.35	12.62	13.52	13.78	15.38	15.03	15.30	16.20	16.46	18.06
	8H	12.41	12.65	13.59	13.81	15.43	15.18	15.42	16.36	16.58	18.20