

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: P935023

Luminaire Tested: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

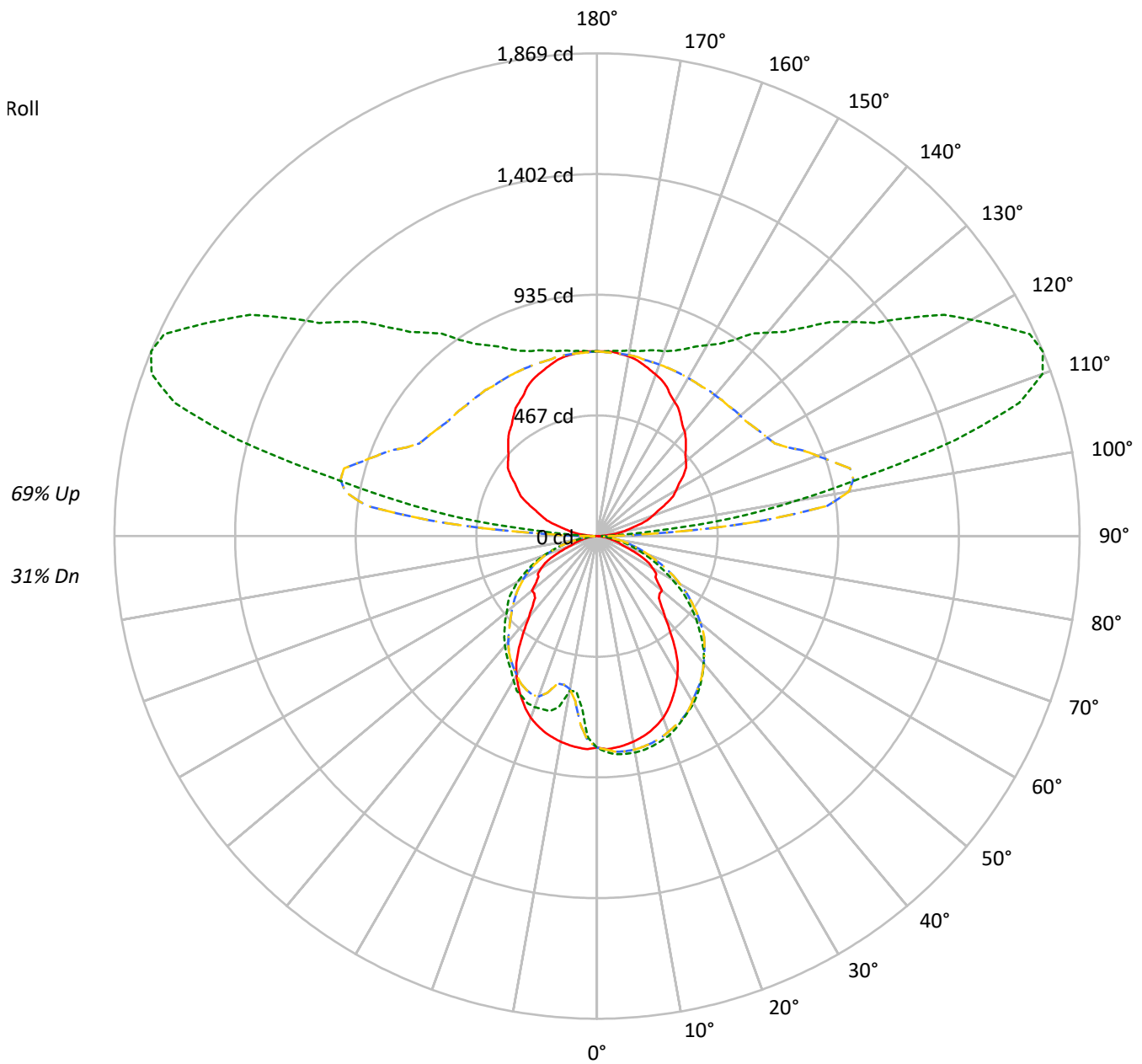
Test Method: LM-79-2019  
Report Number: P935023  
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6766.0 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 61.8  
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: P935023  
CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6

### 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°	5065	5065	5065	5065
5°	5101	5113	5101	4020
10°	5065	5036	5065	3601
15°	5008	4928	5008	4114
20°	4902	4798	4902	4123
25°	4685	4609	4685	4036
30°	4406	4453	4406	3844
35°	3926	4255	3926	3633
40°	3270	4022	3270	3474
45°	2920	3749	2920	3290
50°	3099	3424	3099	3107
55°	2913	3073	2913	3000
60°	2999	2610	2999	2747
65°	2715	2158	2715	2412
70°	1875	1719	1875	2022
75°	1638	1271	1638	1522
80°	1312	840	1312	915
85°	739	445	739	378

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4478 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	1.1
10°-20°	209.8	3.1
20°-30°	324.4	4.8
30°-40°	387.2	5.7
40°-50°	389.5	5.8
50°-60°	338.9	5.0
60°-70°	240.3	3.6
70°-80°	127.1	1.9
80°-90°	34.4	0.5
90°-100°	348.9	5.2
100°-110°	917.3	13.6
110°-120°	951.2	14.1
120°-130°	763.0	11.3
130°-140°	598.7	8.8
140°-150°	459.5	6.8
150°-160°	330.9	4.9
160°-170°	202.5	3.0
170°-180°	68.4	1.0
0°-30°	608.1	9.0
0°-40°	995.4	14.7
0°-60°	1723.8	25.5
0°-90°	2125.6	31.4
90°-120°	2217.4	32.8
90°-150°	4038.6	59.7
90°-180°	4640.0	68.6
0°-180°	6766.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	819	819	819	819	819	
5°	823	848	823	667	823	78
15°	786	840	786	702	786	221
25°	692	784	692	686	692	318
35°	526	700	526	597	526	325
45°	339	576	339	506	339	272
55°	276	425	276	415	276	254
65°	192	256	192	287	192	184
75°	73	122	73	146	73	77
85°	12	31	12	26	12	17
90°	5	18	5	18	5	4
95°	46	211	46	211	46	51
105°	165	1436	165	1436	165	175
115°	294	1850	294	1850	294	290
125°	408	1473	408	1473	408	363
135°	487	1143	487	1143	487	377
145°	564	927	564	927	564	354
155°	638	798	638	798	638	293
165°	688	744	688	744	688	194
175°	716	721	716	721	716	68
180°	716	716	716	716	716	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	825.7	825.7	830.4	831.9	831.9	829.6	827.3	829.6	836.6	838.9	838.1
5°	822.6	828.8	837.4	838.9	840.5	839.7	838.1	839.7	847.4	849.0	849.8
7.5°	816.4	828.1	838.9	841.2	843.5	841.2	840.5	842.0	849.8	851.3	851.3
10°	808.7	825.0	837.4	838.9	841.2	838.9	838.9	842.0	849.8	851.3	852.1
12.5°	797.9	820.3	831.9	833.4	836.6	835.8	835.0	838.1	845.8	847.4	847.4
15°	785.5	811.8	822.6	824.2	829.6	828.1	828.1	831.1	839.7	842.0	841.2
17.5°	768.4	801.0	813.4	815.7	819.5	818.7	819.5	822.6	830.4	831.9	832.7
20°	749.1	786.2	801.0	803.3	807.1	807.1	807.1	811.0	818.7	821.8	821.8
22.5°	722.7	770.7	786.2	787.8	792.4	792.4	793.9	799.4	806.3	807.1	807.1
25°	691.7	753.7	766.8	771.5	776.2	778.5	780.8	783.9	786.2	785.5	786.2
27.5°	659.2	732.0	749.1	752.1	758.4	760.7	763.8	764.5	765.3	767.6	766.1
30°	622.8	701.8	727.3	730.4	740.5	742.0	739.0	740.5	744.4	746.0	747.5
32.5°	581.7	656.9	704.9	711.9	721.2	716.5	715.7	718.0	724.3	724.3	725.8
35°	526.0	622.0	684.0	690.2	697.2	691.7	694.8	695.6	699.5	701.8	701.0
37.5°	464.8	591.8	662.3	666.9	672.4	665.4	670.1	672.4	675.4	673.9	673.9
40°	410.6	544.5	636.7	639.8	644.5	639.0	643.7	645.3	646.8	645.3	644.5
42.5°	370.3	492.6	609.6	613.5	610.4	614.2	615.8	618.9	616.6	613.5	613.5
45°	339.3	478.7	580.2	584.8	580.2	586.4	588.7	588.7	581.7	580.2	579.4
47.5°	329.2	450.8	550.8	550.8	548.4	556.2	560.0	554.6	547.6	545.3	545.3
50°	328.4	419.8	510.4	507.4	518.2	527.5	523.6	518.2	512.8	504.3	504.3
52.5°	298.2	381.8	458.5	470.2	487.3	492.6	486.5	481.0	471.7	467.9	464.8
55°	276.5	342.3	411.3	434.6	452.4	459.3	447.8	442.3	428.4	426.0	424.5
57.5°	271.9	285.1	367.9	397.4	419.0	418.3	411.3	401.2	389.6	387.3	386.5
60°	249.4	206.1	321.5	356.4	378.8	376.5	370.3	361.0	350.1	348.6	347.0
62.5°	226.1	149.5	268.8	308.3	340.0	339.3	333.9	319.9	312.2	308.3	305.2
65°	192.1	125.5	191.3	256.4	302.1	303.6	292.1	282.0	273.4	268.8	268.0
67.5°	146.4	102.3	129.4	213.8	265.7	264.1	249.4	244.8	233.9	231.6	227.0
70°	108.4	68.1	89.9	173.5	230.1	226.1	214.6	209.1	199.0	193.7	190.6
72.5°	89.9	55.0	65.8	134.8	193.7	189.0	178.9	172.7	164.2	159.5	156.5
75°	72.8	58.1	50.4	99.9	157.2	154.2	144.8	138.7	131.7	125.5	126.3
77.5°	53.4	54.2	40.3	73.6	124.7	120.0	114.7	106.9	103.8	97.6	97.6
80°	40.3	42.6	30.2	50.4	89.9	89.9	85.2	79.8	74.4	71.3	71.3
82.5°	27.1	27.1	22.5	31.7	61.2	58.9	55.7	54.2	51.1	49.6	49.6
85°	12.4	15.5	13.9	19.3	33.3	34.9	34.9	33.3	32.6	31.0	31.7
87.5°	3.8	7.0	8.5	10.9	17.0	17.8	18.6	18.6	18.6	19.3	19.3
90°	4.8	8.6	12.5	13.5	21.2	31.4	36.5	32.4	24.3	18.2	18.2
92.5°	19.2	51.9	84.5	92.7	130.4	180.5	205.6	180.2	129.4	91.2	87.6
95°	46.1	105.9	165.7	180.6	320.8	507.6	601.0	536.3	406.9	309.8	298.8
97.5°	79.8	132.5	185.3	198.4	432.0	743.6	899.4	858.5	776.7	715.3	694.4
100°	105.7	153.5	201.4	213.3	472.5	818.2	991.1	994.1	1000.1	1004.5	979.6
102.5°	127.8	172.5	217.1	228.2	491.2	841.8	1017.0	1069.1	1173.3	1251.5	1230.2
105°	165.2	203.0	240.9	250.3	505.0	844.5	1014.2	1131.0	1364.5	1539.7	1528.2
107.5°	203.7	238.9	274.2	283.0	507.5	806.8	956.5	1119.4	1445.2	1689.6	1692.4
110°	229.6	261.4	293.3	301.2	503.7	773.5	908.4	1090.6	1454.8	1728.0	1740.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	255.1	285.4	315.8	323.3	503.8	744.4	864.7	1051.1	1424.0	1703.5	1721.9
115°	293.5	321.5	349.4	356.4	508.4	711.0	812.4	991.9	1351.1	1620.5	1646.0
117.5°	331.5	356.9	382.3	388.6	517.8	690.2	776.3	938.4	1262.5	1505.6	1533.8
120°	353.6	377.5	401.4	407.4	525.6	683.1	761.9	910.0	1206.1	1428.3	1455.7
122.5°	375.2	399.3	423.5	429.5	536.6	679.4	750.9	884.3	1150.9	1350.9	1378.0
125°	408.3	430.4	452.4	457.8	551.6	676.4	738.9	852.2	1078.7	1248.6	1273.6
127.5°	435.3	457.5	479.7	485.3	566.4	674.7	728.8	826.1	1020.6	1166.5	1187.5
130°	449.7	473.6	497.5	503.5	577.3	675.8	725.0	811.5	984.7	1114.6	1134.0
132.5°	464.5	488.5	512.4	518.4	586.1	676.4	721.6	799.1	954.1	1070.4	1087.8
135°	486.6	508.4	530.2	535.7	595.7	675.8	715.8	780.7	910.5	1007.9	1022.9
137.5°	509.2	530.8	552.4	557.8	610.1	680.0	714.9	769.8	879.5	961.8	974.0
140°	528.0	547.9	567.7	572.6	618.9	680.6	711.5	758.9	853.7	924.8	936.2
142.5°	542.4	560.8	579.1	583.7	626.3	683.1	711.5	753.1	836.4	898.8	908.7
145°	564.5	580.5	596.5	600.5	635.9	683.1	706.7	740.7	808.9	859.9	867.4
147.5°	586.6	602.1	617.7	621.6	650.0	687.8	706.7	733.5	787.1	827.3	833.4
150°	601.0	615.1	629.2	632.7	657.3	690.2	706.7	729.3	774.5	808.5	813.5
152.5°	615.9	626.6	637.3	639.9	662.2	691.8	706.7	726.0	764.7	793.6	797.4
155°	638.0	645.9	653.7	655.7	672.7	695.4	706.7	722.1	752.8	775.9	778.4
157.5°	654.3	662.0	669.7	671.6	683.3	698.9	706.7	718.6	742.6	760.5	762.3
160°	665.4	671.4	677.4	678.8	688.1	700.5	706.7	716.9	737.4	752.8	753.8
162.5°	676.4	680.9	685.4	686.5	693.2	702.2	706.7	715.3	732.7	745.6	746.5
165°	688.5	692.5	696.5	697.5	700.6	704.7	706.7	712.9	725.3	734.6	735.6
167.5°	699.5	701.4	703.3	703.8	706.3	709.8	711.5	715.6	723.6	729.7	730.2
170°	706.7	708.6	710.6	711.0	711.2	711.4	711.5	715.6	723.6	729.7	729.7
172.5°	710.6	710.9	711.4	711.5	711.5	711.5	711.5	714.7	721.1	725.9	725.5
175°	715.8	715.8	715.8	715.8	714.3	712.4	711.5	713.5	717.6	720.6	720.6
177.5°	715.8	715.8	715.8	715.8	714.7	713.3	712.5	714.1	717.3	719.6	719.2
180°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	839.7	837.4	839.7	838.1	838.9	836.6	829.6	827.3	829.6	831.9	831.9
5°	849.8	848.2	849.8	849.8	849.0	847.4	839.7	838.1	839.7	840.5	838.9
7.5°	852.9	850.5	852.9	851.3	851.3	849.8	842.0	840.5	841.2	843.5	841.2
10°	852.9	850.5	852.9	852.1	851.3	849.8	842.0	838.9	838.9	841.2	838.9
12.5°	849.0	847.4	849.0	847.4	847.4	845.8	838.1	835.0	835.8	836.6	833.4
15°	842.8	840.5	842.8	841.2	842.0	839.7	831.1	828.1	828.1	829.6	824.2
17.5°	833.4	830.4	833.4	832.7	831.9	830.4	822.6	819.5	818.7	819.5	815.7
20°	822.6	820.3	822.6	821.8	821.8	818.7	811.0	807.1	807.1	807.1	803.3
22.5°	805.6	803.3	805.6	807.1	807.1	806.3	799.4	793.9	792.4	792.4	787.8
25°	786.2	783.9	786.2	786.2	785.5	786.2	783.9	780.8	778.5	776.2	771.5
27.5°	767.6	766.1	767.6	766.1	767.6	765.3	764.5	763.8	760.7	758.4	752.1
30°	749.1	747.5	749.1	747.5	746.0	744.4	740.5	739.0	742.0	740.5	730.4
32.5°	725.8	724.3	725.8	725.8	724.3	724.3	718.0	715.7	716.5	721.2	711.9
35°	701.8	699.5	701.8	701.0	701.8	699.5	695.6	694.8	691.7	697.2	690.2
37.5°	673.9	671.6	673.9	673.9	673.9	675.4	672.4	670.1	665.4	672.4	666.9
40°	645.3	642.2	645.3	644.5	645.3	646.8	645.3	643.7	639.0	644.5	639.8
42.5°	612.7	611.9	612.7	613.5	613.5	616.6	618.9	615.8	614.2	610.4	613.5
45°	577.9	576.3	577.9	579.4	580.2	581.7	588.7	588.7	586.4	580.2	584.8
47.5°	540.7	536.8	540.7	545.3	545.3	547.6	554.6	560.0	556.2	548.4	550.8
50°	501.2	502.0	501.2	504.3	504.3	512.8	518.2	523.6	527.5	518.2	507.4
52.5°	462.5	461.7	462.5	464.8	467.9	471.7	481.0	486.5	492.6	487.3	470.2
55°	423.7	425.3	423.7	424.5	426.0	428.4	442.3	447.8	459.3	452.4	434.6
57.5°	385.0	382.7	385.0	386.5	387.3	389.6	401.2	411.3	418.3	419.0	397.4
60°	340.0	337.0	340.0	347.0	348.6	350.1	361.0	370.3	376.5	378.8	356.4
62.5°	300.5	295.1	300.5	305.2	308.3	312.2	319.9	333.9	339.3	340.0	308.3
65°	258.7	256.4	258.7	268.0	268.8	273.4	282.0	292.1	303.6	302.1	256.4
67.5°	220.8	220.8	220.8	227.0	231.6	233.9	244.8	249.4	264.1	265.7	213.8
70°	185.9	185.1	185.9	190.6	193.7	199.0	209.1	214.6	226.1	230.1	173.5
72.5°	152.6	151.8	152.6	156.5	159.5	164.2	172.7	178.9	189.0	193.7	134.8
75°	123.2	121.6	123.2	126.3	125.5	131.7	138.7	144.8	154.2	157.2	99.9
77.5°	94.5	94.5	94.5	97.6	97.6	103.8	106.9	114.7	120.0	124.7	73.6
80°	70.5	69.7	70.5	71.3	71.3	74.4	79.8	85.2	89.9	89.9	50.4
82.5°	49.6	48.0	49.6	49.6	49.6	51.1	54.2	55.7	58.9	61.2	31.7
85°	31.0	31.0	31.0	31.7	31.0	32.6	33.3	34.9	34.9	33.3	19.3
87.5°	20.2	19.3	20.2	19.3	19.3	18.6	18.6	18.6	17.8	17.0	10.9
90°	18.2	18.2	18.2	18.2	18.2	24.3	32.4	36.5	31.4	21.2	13.5
92.5°	73.1	58.6	73.1	87.6	91.2	129.4	180.2	205.6	180.5	130.4	92.7
95°	254.9	210.9	254.9	298.8	309.8	406.9	536.3	601.0	507.6	320.8	180.6
97.5°	610.7	527.0	610.7	694.4	715.3	776.7	858.5	899.4	743.6	432.0	198.4
100°	879.9	780.2	879.9	979.6	1004.5	1000.1	994.1	991.1	818.2	472.5	213.3
102.5°	1144.7	1059.3	1144.7	1230.2	1251.5	1173.3	1069.1	1017.0	841.8	491.2	228.2
105°	1482.3	1436.4	1482.3	1528.2	1539.7	1364.5	1131.0	1014.2	844.5	505.0	250.3
107.5°	1703.5	1714.6	1703.5	1692.4	1689.6	1445.2	1119.4	956.5	806.8	507.5	283.0
110°	1787.9	1835.7	1787.9	1740.0	1728.0	1454.8	1090.6	908.4	773.5	503.7	301.2





TEST NUMBER: P935023

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1795.3	1868.8	1795.3	1721.9	1703.5	1424.0	1051.1	864.7	744.4	503.8	323.3
115°	1747.7	1849.6	1747.7	1646.0	1620.5	1351.1	991.9	812.4	711.0	508.4	356.4
117.5°	1646.8	1759.8	1646.8	1533.8	1505.6	1262.5	938.4	776.3	690.2	517.8	388.6
120°	1565.5	1675.2	1565.5	1455.7	1428.3	1206.1	910.0	761.9	683.1	525.6	407.4
122.5°	1486.3	1594.5	1486.3	1378.0	1350.9	1150.9	884.3	750.9	679.4	536.6	429.5
125°	1373.2	1472.9	1373.2	1273.6	1248.6	1078.7	852.2	738.9	676.4	551.6	457.8
127.5°	1271.7	1355.7	1271.7	1187.5	1166.5	1020.6	826.1	728.8	674.7	566.4	485.3
130°	1211.7	1289.4	1211.7	1134.0	1114.6	984.7	811.5	725.0	675.8	577.3	503.5
132.5°	1157.4	1227.0	1157.4	1087.8	1070.4	954.1	799.1	721.6	676.4	586.1	518.4
135°	1082.9	1142.9	1082.9	1022.9	1007.9	910.5	780.7	715.8	675.8	595.7	535.7
137.5°	1023.2	1072.3	1023.2	974.0	961.8	879.5	769.8	714.9	680.0	610.1	557.8
140°	982.2	1028.1	982.2	936.2	924.8	853.7	758.9	711.5	680.6	618.9	572.6
142.5°	948.3	987.8	948.3	908.7	898.8	836.4	753.1	711.5	683.1	626.3	583.7
145°	897.4	927.2	897.4	867.4	859.9	808.9	740.7	706.7	683.1	635.9	600.5
147.5°	858.2	883.0	858.2	833.4	827.3	787.1	733.5	706.7	687.8	650.0	621.6
150°	833.6	853.7	833.6	813.5	808.5	774.5	729.3	706.7	690.2	657.3	632.7
152.5°	812.6	827.8	812.6	797.4	793.6	764.7	726.0	706.7	691.8	662.2	639.9
155°	788.4	798.4	788.4	778.4	775.9	752.8	722.1	706.7	695.4	672.7	655.7
157.5°	769.3	776.3	769.3	762.3	760.5	742.6	718.6	706.7	698.9	683.3	671.6
160°	757.9	761.9	757.9	753.8	752.8	737.4	716.9	706.7	700.5	688.1	678.8
162.5°	750.4	754.2	750.4	746.5	745.6	732.7	715.3	706.7	702.2	693.2	686.5
165°	739.7	743.7	739.7	735.6	734.6	725.3	712.9	706.7	704.7	700.6	697.5
167.5°	731.9	733.6	731.9	730.2	729.7	723.6	715.6	711.5	709.8	706.3	703.8
170°	729.7	729.7	729.7	729.7	729.7	723.6	715.6	711.5	711.4	711.2	711.0
172.5°	724.0	722.6	724.0	725.5	725.9	721.1	714.7	711.5	711.5	711.5	711.5
175°	720.6	720.6	720.6	720.6	720.6	717.6	713.5	711.5	712.4	714.3	715.8
177.5°	717.5	715.8	717.5	719.2	719.6	717.3	714.1	712.5	713.3	714.7	715.8
180°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8



TEST NUMBER: P935023

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	830.4	825.7	825.7	818.0	814.9	812.6	808.7	797.1	793.9	790.9	795.5
5°	837.4	828.8	822.6	808.7	797.1	792.4	777.7	749.8	731.2	717.3	709.6
7.5°	838.9	828.1	816.4	794.7	766.8	754.4	709.6	658.4	644.5	632.1	624.3
10°	837.4	825.0	808.7	776.2	710.3	688.6	643.7	610.4	601.8	599.5	601.8
12.5°	831.9	820.3	797.9	743.6	651.4	636.7	610.4	591.1	589.4	593.4	614.2
15°	822.6	811.8	785.5	700.2	618.9	608.1	589.4	582.5	591.1	618.2	680.9
17.5°	813.4	801.0	768.4	657.7	594.1	586.4	573.2	587.1	635.2	671.6	692.5
20°	801.0	786.2	749.1	626.6	576.3	569.3	563.1	625.9	662.3	675.4	687.1
22.5°	786.2	770.7	722.7	605.0	557.7	552.3	556.2	647.6	662.3	671.6	681.7
25°	766.8	753.7	691.7	587.9	543.0	536.8	551.6	645.3	653.7	656.1	676.2
27.5°	749.1	732.0	659.2	572.4	525.2	522.8	555.4	635.2	641.4	643.7	665.4
30°	727.3	701.8	622.8	556.2	506.6	505.8	556.2	622.8	621.2	627.4	649.1
32.5°	704.9	656.9	581.7	536.0	488.8	488.0	550.8	604.2	602.7	611.1	627.4
35°	684.0	622.0	526.0	512.8	466.3	467.1	537.5	582.5	583.3	591.1	601.1
37.5°	662.3	591.8	464.8	487.3	444.6	444.6	519.8	562.3	560.8	563.1	577.1
40°	636.7	544.5	410.6	453.9	424.5	422.2	498.0	540.7	535.2	534.5	553.9
42.5°	609.6	492.6	370.3	409.8	401.2	398.2	471.7	514.4	504.3	506.6	531.4
45°	580.2	478.7	339.3	346.3	377.2	374.9	443.1	484.1	477.2	483.3	508.9
47.5°	550.8	450.8	329.2	287.4	351.7	350.9	411.3	454.7	450.8	457.0	484.1
50°	510.4	419.8	328.4	246.3	323.0	326.1	373.4	426.0	426.0	431.4	460.2
52.5°	458.5	381.8	298.2	223.1	289.7	299.0	340.0	401.2	402.8	408.3	433.7
55°	411.3	342.3	276.5	205.3	250.2	270.3	307.5	375.7	378.8	384.2	407.4
57.5°	367.9	285.1	271.9	184.3	213.8	233.2	278.9	350.9	352.4	357.1	379.5
60°	321.5	206.1	249.4	161.9	182.0	196.7	252.5	321.5	326.9	329.9	349.3
62.5°	268.8	149.5	226.1	146.4	166.6	169.6	230.8	293.6	300.5	302.8	314.5
65°	191.3	125.5	192.1	133.2	150.3	151.1	207.6	264.9	271.1	275.0	283.5
67.5°	129.4	102.3	146.4	120.8	137.9	138.7	185.1	231.6	240.2	243.2	248.6
70°	89.9	68.1	108.4	107.6	124.0	125.5	161.1	201.4	209.1	211.4	214.6
72.5°	65.8	55.0	89.9	96.8	109.2	110.8	136.4	167.3	175.1	177.4	178.9
75°	50.4	58.1	72.8	84.5	92.9	93.7	111.6	136.4	141.8	143.3	144.1
77.5°	40.3	54.2	53.4	68.1	75.9	74.4	87.5	105.3	110.0	110.0	110.0
80°	30.2	42.6	40.3	48.8	55.7	54.2	62.8	75.2	76.7	78.2	77.5
82.5°	22.5	27.1	27.1	31.0	37.2	35.7	41.8	48.8	48.8	48.8	50.4
85°	13.9	15.5	12.4	16.2	20.9	20.2	23.3	26.3	27.1	27.1	25.6
87.5°	8.5	7.0	3.8	6.2	9.3	9.3	10.9	11.6	10.9	10.9	10.9
90°	12.5	8.6	4.8	8.6	12.5	13.5	21.2	31.4	36.5	32.4	24.3
92.5°	84.5	51.9	19.2	51.9	84.5	92.7	130.4	180.5	205.6	180.2	129.4
95°	165.7	105.9	46.1	105.9	165.7	180.6	320.8	507.6	601.0	536.3	406.9
97.5°	185.3	132.5	79.8	132.5	185.3	198.4	432.0	743.6	899.4	858.5	776.7
100°	201.4	153.5	105.7	153.5	201.4	213.3	472.5	818.2	991.1	994.1	1000.1
102.5°	217.1	172.5	127.8	172.5	217.1	228.2	491.2	841.8	1017.0	1069.1	1173.3
105°	240.9	203.0	165.2	203.0	240.9	250.3	505.0	844.5	1014.2	1131.0	1364.5
107.5°	274.2	238.9	203.7	238.9	274.2	283.0	507.5	806.8	956.5	1119.4	1445.2
110°	293.3	261.4	229.6	261.4	293.3	301.2	503.7	773.5	908.4	1090.6	1454.8



TEST NUMBER: P935023

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	315.8	285.4	255.1	285.4	315.8	323.3	503.8	744.4	864.7	1051.1	1424.0
115°	349.4	321.5	293.5	321.5	349.4	356.4	508.4	711.0	812.4	991.9	1351.1
117.5°	382.3	356.9	331.5	356.9	382.3	388.6	517.8	690.2	776.3	938.4	1262.5
120°	401.4	377.5	353.6	377.5	401.4	407.4	525.6	683.1	761.9	910.0	1206.1
122.5°	423.5	399.3	375.2	399.3	423.5	429.5	536.6	679.4	750.9	884.3	1150.9
125°	452.4	430.4	408.3	430.4	452.4	457.8	551.6	676.4	738.9	852.2	1078.7
127.5°	479.7	457.5	435.3	457.5	479.7	485.3	566.4	674.7	728.8	826.1	1020.6
130°	497.5	473.6	449.7	473.6	497.5	503.5	577.3	675.8	725.0	811.5	984.7
132.5°	512.4	488.5	464.5	488.5	512.4	518.4	586.1	676.4	721.6	799.1	954.1
135°	530.2	508.4	486.6	508.4	530.2	535.7	595.7	675.8	715.8	780.7	910.5
137.5°	552.4	530.8	509.2	530.8	552.4	557.8	610.1	680.0	714.9	769.8	879.5
140°	567.7	547.9	528.0	547.9	567.7	572.6	618.9	680.6	711.5	758.9	853.7
142.5°	579.1	560.8	542.4	560.8	579.1	583.7	626.3	683.1	711.5	753.1	836.4
145°	596.5	580.5	564.5	580.5	596.5	600.5	635.9	683.1	706.7	740.7	808.9
147.5°	617.7	602.1	586.6	602.1	617.7	621.6	650.0	687.8	706.7	733.5	787.1
150°	629.2	615.1	601.0	615.1	629.2	632.7	657.3	690.2	706.7	729.3	774.5
152.5°	637.3	626.6	615.9	626.6	637.3	639.9	662.2	691.8	706.7	726.0	764.7
155°	653.7	645.9	638.0	645.9	653.7	655.7	672.7	695.4	706.7	722.1	752.8
157.5°	669.7	662.0	654.3	662.0	669.7	671.6	683.3	698.9	706.7	718.6	742.6
160°	677.4	671.4	665.4	671.4	677.4	678.8	688.1	700.5	706.7	716.9	737.4
162.5°	685.4	680.9	676.4	680.9	685.4	686.5	693.2	702.2	706.7	715.3	732.7
165°	696.5	692.5	688.5	692.5	696.5	697.5	700.6	704.7	706.7	712.9	725.3
167.5°	703.3	701.4	699.5	701.4	703.3	703.8	706.3	709.8	711.5	715.6	723.6
170°	710.6	708.6	706.7	708.6	710.6	711.0	711.2	711.4	711.5	715.6	723.6
172.5°	711.4	710.9	710.6	710.9	711.4	711.5	711.5	711.5	711.5	714.7	721.1
175°	715.8	715.8	715.8	715.8	715.8	715.8	714.3	712.4	711.5	713.5	717.6
177.5°	715.8	715.8	715.8	715.8	715.8	715.8	714.7	713.3	712.5	714.1	717.3
180°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8



TEST NUMBER: P935023

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	790.1	787.8	790.9	782.3	790.9	787.8	790.1	795.5	790.9	793.9	797.1
5°	693.3	689.4	677.0	666.9	677.0	689.4	693.3	709.6	717.3	731.2	749.8
7.5°	619.7	616.6	613.5	607.3	613.5	616.6	619.7	624.3	632.1	644.5	658.4
10°	603.4	604.2	608.8	608.1	608.8	604.2	603.4	601.8	599.5	601.8	610.4
12.5°	645.3	652.2	677.8	676.2	677.8	652.2	645.3	614.2	593.4	589.4	591.1
15°	693.3	695.6	701.0	701.8	701.0	695.6	693.3	680.9	618.2	591.1	582.5
17.5°	697.9	698.7	702.5	702.5	702.5	698.7	697.9	692.5	671.6	635.2	587.1
20°	694.1	695.6	703.3	704.9	703.3	695.6	694.1	687.1	675.4	662.3	625.9
22.5°	692.5	695.6	701.8	701.0	701.8	695.6	692.5	681.7	671.6	662.3	647.6
25°	684.8	684.8	685.5	686.3	685.5	684.8	684.8	676.2	656.1	653.7	645.3
27.5°	668.5	670.1	674.7	673.9	674.7	670.1	668.5	665.4	643.7	641.4	635.2
30°	653.7	652.2	648.3	645.3	648.3	652.2	653.7	649.1	627.4	621.2	622.8
32.5°	629.0	625.1	621.2	618.9	621.2	625.1	629.0	627.4	611.1	602.7	604.2
35°	599.5	600.3	599.5	597.2	599.5	600.3	599.5	601.1	591.1	583.3	582.5
37.5°	578.7	580.2	579.4	576.3	579.4	580.2	578.7	577.1	563.1	560.8	562.3
40°	556.9	557.7	556.9	554.6	556.9	557.7	556.9	553.9	534.5	535.2	540.7
42.5°	536.0	535.2	532.9	531.4	532.9	535.2	536.0	531.4	506.6	504.3	514.4
45°	512.1	512.8	508.1	505.8	508.1	512.8	512.1	508.9	483.3	477.2	484.1
47.5°	488.0	488.0	484.1	481.8	484.1	488.0	488.0	484.1	457.0	450.8	454.7
50°	462.5	461.7	456.2	455.5	456.2	461.7	462.5	460.2	431.4	426.0	426.0
52.5°	433.0	433.0	433.7	435.4	433.7	433.0	433.0	433.7	408.3	402.8	401.2
55°	407.4	408.3	413.6	415.2	413.6	408.3	407.4	407.4	384.2	378.8	375.7
57.5°	381.1	381.1	385.0	385.0	385.0	381.1	381.1	379.5	357.1	352.4	350.9
60°	350.9	352.4	355.5	354.7	355.5	352.4	350.9	349.3	329.9	326.9	321.5
62.5°	319.2	320.7	321.5	319.9	321.5	320.7	319.2	314.5	302.8	300.5	293.6
65°	285.8	287.4	288.1	286.6	288.1	287.4	285.8	283.5	275.0	271.1	264.9
67.5°	251.7	250.9	250.2	253.3	250.2	250.9	251.7	248.6	243.2	240.2	231.6
70°	216.9	216.9	216.1	217.7	216.1	216.9	216.9	214.6	211.4	209.1	201.4
72.5°	179.7	178.9	182.0	179.7	182.0	178.9	179.7	178.9	177.4	175.1	167.3
75°	143.3	144.8	143.3	145.6	143.3	144.8	143.3	144.1	143.3	141.8	136.4
77.5°	109.2	110.8	109.2	109.2	109.2	110.8	109.2	110.0	110.0	110.0	105.3
80°	77.5	76.7	76.7	75.9	76.7	76.7	77.5	77.5	78.2	76.7	75.2
82.5°	49.6	48.8	48.8	50.4	48.8	48.8	49.6	50.4	48.8	48.8	48.8
85°	27.1	27.9	26.3	26.3	26.3	27.9	27.1	25.6	27.1	27.1	26.3
87.5°	10.1	9.3	9.3	9.3	9.3	9.3	10.1	10.9	10.9	10.9	11.6
90°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	24.3	32.4	36.5	31.4
92.5°	91.2	87.6	73.1	58.6	73.1	87.6	91.2	129.4	180.2	205.6	180.5
95°	309.8	298.8	254.9	210.9	254.9	298.8	309.8	406.9	536.3	601.0	507.6
97.5°	715.3	694.4	610.7	527.0	610.7	694.4	715.3	776.7	858.5	899.4	743.6
100°	1004.5	979.6	879.9	780.2	879.9	979.6	1004.5	1000.1	994.1	991.1	818.2
102.5°	1251.5	1230.2	1144.7	1059.3	1144.7	1230.2	1251.5	1173.3	1069.1	1017.0	841.8
105°	1539.7	1528.2	1482.3	1436.4	1482.3	1528.2	1539.7	1364.5	1131.0	1014.2	844.5
107.5°	1689.6	1692.4	1703.5	1714.6	1703.5	1692.4	1689.6	1445.2	1119.4	956.5	806.8
110°	1728.0	1740.0	1787.9	1835.7	1787.9	1740.0	1728.0	1454.8	1090.6	908.4	773.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1703.5	1721.9	1795.3	1868.8	1795.3	1721.9	1703.5	1424.0	1051.1	864.7	744.4
115°	1620.5	1646.0	1747.7	1849.6	1747.7	1646.0	1620.5	1351.1	991.9	812.4	711.0
117.5°	1505.6	1533.8	1646.8	1759.8	1646.8	1533.8	1505.6	1262.5	938.4	776.3	690.2
120°	1428.3	1455.7	1565.5	1675.2	1565.5	1455.7	1428.3	1206.1	910.0	761.9	683.1
122.5°	1350.9	1378.0	1486.3	1594.5	1486.3	1378.0	1350.9	1150.9	884.3	750.9	679.4
125°	1248.6	1273.6	1373.2	1472.9	1373.2	1273.6	1248.6	1078.7	852.2	738.9	676.4
127.5°	1166.5	1187.5	1271.7	1355.7	1271.7	1187.5	1166.5	1020.6	826.1	728.8	674.7
130°	1114.6	1134.0	1211.7	1289.4	1211.7	1134.0	1114.6	984.7	811.5	725.0	675.8
132.5°	1070.4	1087.8	1157.4	1227.0	1157.4	1087.8	1070.4	954.1	799.1	721.6	676.4
135°	1007.9	1022.9	1082.9	1142.9	1082.9	1022.9	1007.9	910.5	780.7	715.8	675.8
137.5°	961.8	974.0	1023.2	1072.3	1023.2	974.0	961.8	879.5	769.8	714.9	680.0
140°	924.8	936.2	982.2	1028.1	982.2	936.2	924.8	853.7	758.9	711.5	680.6
142.5°	898.8	908.7	948.3	987.8	948.3	908.7	898.8	836.4	753.1	711.5	683.1
145°	859.9	867.4	897.4	927.2	897.4	867.4	859.9	808.9	740.7	706.7	683.1
147.5°	827.3	833.4	858.2	883.0	858.2	833.4	827.3	787.1	733.5	706.7	687.8
150°	808.5	813.5	833.6	853.7	833.6	813.5	808.5	774.5	729.3	706.7	690.2
152.5°	793.6	797.4	812.6	827.8	812.6	797.4	793.6	764.7	726.0	706.7	691.8
155°	775.9	778.4	788.4	798.4	788.4	778.4	775.9	752.8	722.1	706.7	695.4
157.5°	760.5	762.3	769.3	776.3	769.3	762.3	760.5	742.6	718.6	706.7	698.9
160°	752.8	753.8	757.9	761.9	757.9	753.8	752.8	737.4	716.9	706.7	700.5
162.5°	745.6	746.5	750.4	754.2	750.4	746.5	745.6	732.7	715.3	706.7	702.2
165°	734.6	735.6	739.7	743.7	739.7	735.6	734.6	725.3	712.9	706.7	704.7
167.5°	729.7	730.2	731.9	733.6	731.9	730.2	729.7	723.6	715.6	711.5	709.8
170°	729.7	729.7	729.7	729.7	729.7	729.7	729.7	723.6	715.6	711.5	711.4
172.5°	725.9	725.5	724.0	722.6	724.0	725.5	725.9	721.1	714.7	711.5	711.5
175°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	717.6	713.5	711.5	712.4
177.5°	719.6	719.2	717.5	715.8	717.5	719.2	719.6	717.3	714.1	712.5	713.3
180°	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8	715.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	818.7	818.7	818.7	818.7	818.7
2.5°	808.7	812.6	814.9	818.0	825.7
5°	777.7	792.4	797.1	808.7	822.6
7.5°	709.6	754.4	766.8	794.7	816.4
10°	643.7	688.6	710.3	776.2	808.7
12.5°	610.4	636.7	651.4	743.6	797.9
15°	589.4	608.1	618.9	700.2	785.5
17.5°	573.2	586.4	594.1	657.7	768.4
20°	563.1	569.3	576.3	626.6	749.1
22.5°	556.2	552.3	557.7	605.0	722.7
25°	551.6	536.8	543.0	587.9	691.7
27.5°	555.4	522.8	525.2	572.4	659.2
30°	556.2	505.8	506.6	556.2	622.8
32.5°	550.8	488.0	488.8	536.0	581.7
35°	537.5	467.1	466.3	512.8	526.0
37.5°	519.8	444.6	444.6	487.3	464.8
40°	498.0	422.2	424.5	453.9	410.6
42.5°	471.7	398.2	401.2	409.8	370.3
45°	443.1	374.9	377.2	346.3	339.3
47.5°	411.3	350.9	351.7	287.4	329.2
50°	373.4	326.1	323.0	246.3	328.4
52.5°	340.0	299.0	289.7	223.1	298.2
55°	307.5	270.3	250.2	205.3	276.5
57.5°	278.9	233.2	213.8	184.3	271.9
60°	252.5	196.7	182.0	161.9	249.4
62.5°	230.8	169.6	166.6	146.4	226.1
65°	207.6	151.1	150.3	133.2	192.1
67.5°	185.1	138.7	137.9	120.8	146.4
70°	161.1	125.5	124.0	107.6	108.4
72.5°	136.4	110.8	109.2	96.8	89.9
75°	111.6	93.7	92.9	84.5	72.8
77.5°	87.5	74.4	75.9	68.1	53.4
80°	62.8	54.2	55.7	48.8	40.3
82.5°	41.8	35.7	37.2	31.0	27.1
85°	23.3	20.2	20.9	16.2	12.4
87.5°	10.9	9.3	9.3	6.2	3.8
90°	21.2	13.5	12.5	8.6	4.8
92.5°	130.4	92.7	84.5	51.9	19.2
95°	320.8	180.6	165.7	105.9	46.1
97.5°	432.0	198.4	185.3	132.5	79.8
100°	472.5	213.3	201.4	153.5	105.7
102.5°	491.2	228.2	217.1	172.5	127.8
105°	505.0	250.3	240.9	203.0	165.2
107.5°	507.5	283.0	274.2	238.9	203.7
110°	503.7	301.2	293.3	261.4	229.6



TEST NUMBER: P935023

CATALOG NUMBER: SQ4-FA-100U-050D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	503.8	323.3	315.8	285.4	255.1
115°	508.4	356.4	349.4	321.5	293.5
117.5°	517.8	388.6	382.3	356.9	331.5
120°	525.6	407.4	401.4	377.5	353.6
122.5°	536.6	429.5	423.5	399.3	375.2
125°	551.6	457.8	452.4	430.4	408.3
127.5°	566.4	485.3	479.7	457.5	435.3
130°	577.3	503.5	497.5	473.6	449.7
132.5°	586.1	518.4	512.4	488.5	464.5
135°	595.7	535.7	530.2	508.4	486.6
137.5°	610.1	557.8	552.4	530.8	509.2
140°	618.9	572.6	567.7	547.9	528.0
142.5°	626.3	583.7	579.1	560.8	542.4
145°	635.9	600.5	596.5	580.5	564.5
147.5°	650.0	621.6	617.7	602.1	586.6
150°	657.3	632.7	629.2	615.1	601.0
152.5°	662.2	639.9	637.3	626.6	615.9
155°	672.7	655.7	653.7	645.9	638.0
157.5°	683.3	671.6	669.7	662.0	654.3
160°	688.1	678.8	677.4	671.4	665.4
162.5°	693.2	686.5	685.4	680.9	676.4
165°	700.6	697.5	696.5	692.5	688.5
167.5°	706.3	703.8	703.3	701.4	699.5
170°	711.2	711.0	710.6	708.6	706.7
172.5°	711.5	711.5	711.4	710.9	710.6
175°	714.3	715.8	715.8	715.8	715.8
177.5°	714.7	715.8	715.8	715.8	715.8
180°	715.8	715.8	715.8	715.8	715.8



TEST NUMBER: P935023  
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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	8.42	9.13	9.52	10.23	11.74	11.24	11.96	12.34	13.05	14.57
	3H	8.88	9.52	9.99	10.63	12.16	12.57	13.21	13.68	14.32	15.85
	4H	9.07	9.67	10.19	10.78	12.32	13.01	13.62	14.13	14.72	16.26
	6H	9.18	9.74	10.31	10.85	12.39	13.28	13.84	14.41	14.95	16.50
	8H	9.17	9.71	10.31	10.83	12.37	13.35	13.89	14.49	15.01	16.55
	12H	9.14	9.64	10.28	10.76	12.33	13.39	13.89	14.52	15.01	16.58
4H	2H	9.43	10.04	10.56	11.14	12.68	11.63	12.24	12.76	13.35	14.88
	3H	10.44	10.95	11.58	12.08	13.63	13.12	13.63	14.26	14.76	16.31
	4H	10.71	11.18	11.85	12.30	13.87	13.64	14.11	14.78	15.23	16.80
	6H	10.83	11.23	11.97	12.37	13.93	14.00	14.40	15.14	15.54	17.10
	8H	10.83	11.20	11.97	12.34	13.92	14.10	14.47	15.24	15.61	17.19
	12H	10.79	11.13	11.95	12.28	13.86	14.15	14.49	15.31	15.64	17.22
8H	4H	11.15	11.52	12.30	12.66	14.24	13.75	14.13	14.90	15.27	16.84
	6H	11.41	11.72	12.57	12.90	14.47	14.18	14.49	15.35	15.67	17.24
	8H	11.45	11.72	12.62	12.88	14.47	14.33	14.60	15.50	15.76	17.35
	12H	11.43	11.66	12.60	12.82	14.45	14.42	14.66	15.60	15.82	17.44
12H	4H	11.15	11.49	12.31	12.64	14.22	13.71	14.05	14.87	15.20	16.78
	6H	11.47	11.74	12.64	12.90	14.49	14.18	14.45	15.35	15.61	17.20
	8H	11.53	11.76	12.70	12.92	14.55	14.33	14.57	15.51	15.73	17.35