

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: P935198

Luminaire Tested: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

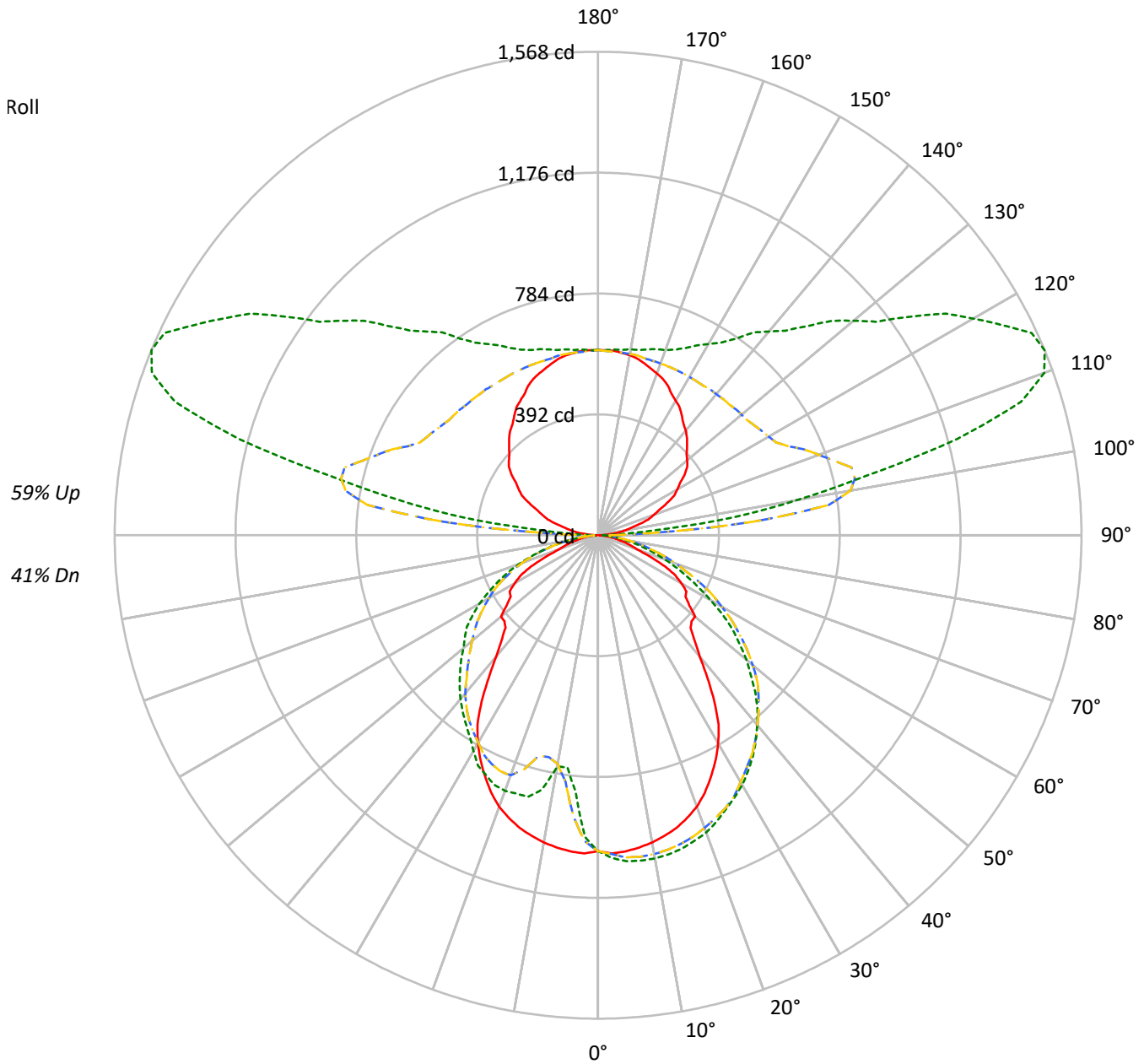
Test Method: LM-79-2019  
Report Number: P935198  
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6551.3 lumens  
Efficiency: N/A  
Efficacy: 133.2 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: General Diffuse  
  
Input Watts (W): 49.2  
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: P935198  
CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9505	9505	9505	9505
5°	9566	9595	9566	7545
10°	9491	9453	9491	6758
15°	9378	9248	9378	7721
20°	9170	9004	9170	7737
25°	8758	8650	8758	7573
30°	8230	8357	8230	7214
35°	7325	7985	7325	6818
40°	6095	7548	6095	6519
45°	5435	7036	5435	6176
50°	5762	6425	5762	5831
55°	5405	5768	5405	5631
60°	5550	4899	5550	5158
65°	5008	4048	5008	4526
70°	3445	3227	3445	3794
75°	2987	2384	2987	2856
80°	2359	1577	2359	1718
85°	1283	836	1283	709

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8346 cd/sqm



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	1.4
10°-20°	262.5	4.0
20°-30°	405.8	6.2
30°-40°	484.5	7.4
40°-50°	487.3	7.4
50°-60°	424.0	6.5
60°-70°	300.6	4.6
70°-80°	159.0	2.4
80°-90°	41.9	0.6
90°-100°	292.7	4.5
100°-110°	769.6	11.7
110°-120°	798.0	12.2
120°-130°	640.1	9.8
130°-140°	502.2	7.7
140°-150°	385.5	5.9
150°-160°	277.6	4.2
160°-170°	169.9	2.6
170°-180°	57.4	0.9
0°-30°	760.8	11.6
0°-40°	1245.3	19.0
0°-60°	2156.7	32.9
0°-90°	2658.3	40.6
90°-120°	1860.4	28.4
90°-150°	3388.2	51.7
90°-180°	3893.0	59.4
0°-180°	6551.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1024	1024	1024	1024	1024	
5°	1029	1061	1029	834	1029	98
15°	983	1052	983	878	983	276
25°	865	981	865	859	865	397
35°	658	875	658	747	658	407
45°	424	721	424	633	424	340
55°	346	532	346	520	346	318
65°	240	321	240	359	240	230
75°	91	152	91	182	91	96
85°	16	39	16	33	16	21
90°	4	15	4	15	4	4
95°	39	177	39	177	39	43
105°	139	1205	139	1205	139	147
115°	246	1552	246	1552	246	243
125°	343	1236	343	1236	343	304
135°	408	959	408	959	408	316
145°	474	778	474	778	474	297
155°	535	670	535	670	535	246
165°	578	624	578	624	578	163
175°	601	605	601	605	601	57
180°	601	601	601	601	601	



TEST NUMBER: P935198  
 CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1033.1	1033.1	1039.0	1040.9	1040.9	1038.0	1035.1	1038.0	1046.7	1049.6	1048.7
5°	1029.2	1037.0	1047.7	1049.6	1051.6	1050.6	1048.7	1050.6	1060.3	1062.2	1063.2
7.5°	1021.4	1036.1	1049.6	1052.5	1055.4	1052.5	1051.6	1053.5	1063.2	1065.1	1065.1
10°	1011.7	1032.1	1047.7	1049.6	1052.5	1049.6	1049.6	1053.5	1063.2	1065.1	1066.1
12.5°	998.2	1026.3	1040.9	1042.8	1046.7	1045.7	1044.8	1048.7	1058.3	1060.3	1060.3
15°	982.7	1015.6	1029.2	1031.1	1038.0	1036.1	1036.1	1039.9	1050.6	1053.5	1052.5
17.5°	961.3	1002.0	1017.5	1020.5	1025.3	1024.3	1025.3	1029.2	1039.0	1040.9	1041.9
20°	937.1	983.6	1002.0	1004.9	1009.8	1009.8	1009.8	1014.6	1024.3	1028.2	1028.2
22.5°	904.2	964.3	983.6	985.6	991.4	991.4	993.3	1000.1	1008.8	1009.8	1009.8
25°	865.4	942.9	959.4	965.2	971.0	973.9	976.8	980.7	983.6	982.7	983.6
27.5°	824.7	915.8	937.1	941.0	948.7	951.7	955.5	956.5	957.5	960.4	958.4
30°	779.2	878.0	910.0	913.9	926.5	928.4	924.5	926.5	931.3	933.2	935.2
32.5°	727.8	821.8	881.9	890.6	902.2	896.4	895.5	898.4	906.1	906.1	908.0
35°	658.0	778.2	855.7	863.5	872.2	865.4	869.3	870.3	875.1	878.0	877.0
37.5°	581.5	740.4	828.6	834.4	841.2	832.5	838.3	841.2	845.1	843.1	843.1
40°	513.7	681.3	796.6	800.5	806.3	799.5	805.3	807.3	809.2	807.3	806.3
42.5°	463.3	616.4	762.7	767.5	763.7	768.5	770.5	774.3	771.4	767.5	767.5
45°	424.5	598.9	725.9	731.7	725.9	733.6	736.5	736.5	727.8	725.9	724.9
47.5°	411.9	564.1	689.1	689.1	686.1	695.8	700.7	693.9	685.2	682.3	682.3
50°	411.0	525.3	638.7	634.8	648.4	660.0	655.1	648.4	641.6	630.9	630.9
52.5°	373.2	477.8	573.7	588.3	609.6	616.4	608.6	601.8	590.2	585.4	581.5
55°	346.0	428.4	514.6	543.7	566.0	574.7	560.2	553.4	536.0	533.0	531.1
57.5°	340.1	356.7	460.4	497.2	524.3	523.4	514.6	502.0	487.5	484.6	483.6
60°	312.0	257.8	402.2	445.8	473.9	471.0	463.3	451.7	438.1	436.1	434.2
62.5°	282.9	187.0	336.2	385.8	425.5	424.5	417.7	400.3	390.6	385.8	381.9
65°	240.3	157.0	239.3	320.7	378.0	379.9	365.4	352.8	342.1	336.2	335.3
67.5°	183.1	127.9	161.8	267.4	332.4	330.4	312.0	306.2	292.6	289.7	283.9
70°	135.7	85.3	112.4	217.1	287.8	282.9	268.4	261.6	249.0	242.2	238.4
72.5°	112.4	68.8	82.4	168.6	242.2	236.4	223.8	216.1	205.4	199.6	195.7
75°	91.1	72.7	63.0	125.0	196.7	192.8	181.2	173.5	164.7	157.0	157.9
77.5°	66.9	67.8	50.4	92.1	156.0	150.2	143.4	133.7	129.8	122.1	122.1
80°	50.4	53.3	37.8	63.0	112.4	112.4	106.6	99.8	93.0	89.1	89.1
82.5°	33.9	33.9	28.1	39.7	76.6	73.6	69.8	67.8	64.0	62.0	62.0
85°	15.5	19.4	17.4	24.2	41.7	43.6	43.6	41.7	40.7	38.8	39.7
87.5°	4.8	8.7	10.7	13.6	21.3	22.3	23.3	23.3	23.3	24.2	24.2
90°	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4	15.3	15.3
92.5°	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5	76.6	73.5
95°	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4	260.0	250.8
97.5°	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6	600.1	582.6
100°	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0	842.7	821.8
102.5°	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4	1049.9	1032.0
105°	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8	1291.8	1282.2
107.5°	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5	1417.6	1419.9
110°	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6	1449.7	1459.8



TEST NUMBER: P935198  
 CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6	1429.2	1444.6
115°	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5	1359.5	1380.8
117.5°	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2	1263.2	1286.8
120°	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9	1198.3	1221.3
122.5°	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5	1133.3	1156.0
125°	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9	1047.5	1068.4
127.5°	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2	978.6	996.2
130°	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2	935.1	951.4
132.5°	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4	898.0	912.6
135°	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9	845.5	858.1
137.5°	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8	806.9	817.2
140°	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2	775.9	785.5
142.5°	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7	754.1	762.4
145°	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6	721.4	727.7
147.5°	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4	694.1	699.3
150°	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8	678.3	682.5
152.5°	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5	665.8	669.0
155°	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6	650.9	653.0
157.5°	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0	638.0	639.4
160°	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7	631.6	632.5
162.5°	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6	625.5	626.3
165°	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5	616.3	617.2
167.5°	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1	612.2	612.6
170°	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1	612.2	612.2
172.5°	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9	609.0	608.7
175°	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0	604.6	604.6
177.5°	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7	603.8	603.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1050.6	1047.7	1050.6	1048.7	1049.6	1046.7	1038.0	1035.1	1038.0	1040.9	1040.9
5°	1063.2	1061.2	1063.2	1063.2	1062.2	1060.3	1050.6	1048.7	1050.6	1051.6	1049.6
7.5°	1067.1	1064.2	1067.1	1065.1	1065.1	1063.2	1053.5	1051.6	1052.5	1055.4	1052.5
10°	1067.1	1064.2	1067.1	1066.1	1065.1	1063.2	1053.5	1049.6	1049.6	1052.5	1049.6
12.5°	1062.2	1060.3	1062.2	1060.3	1060.3	1058.3	1048.7	1044.8	1045.7	1046.7	1042.8
15°	1054.5	1051.6	1054.5	1052.5	1053.5	1050.6	1039.9	1036.1	1036.1	1038.0	1031.1
17.5°	1042.8	1039.0	1042.8	1041.9	1040.9	1039.0	1029.2	1025.3	1024.3	1025.3	1020.5
20°	1029.2	1026.3	1029.2	1028.2	1028.2	1024.3	1014.6	1009.8	1009.8	1009.8	1004.9
22.5°	1007.9	1004.9	1007.9	1009.8	1009.8	1008.8	1000.1	993.3	991.4	991.4	985.6
25°	983.6	980.7	983.6	983.6	982.7	983.6	980.7	976.8	973.9	971.0	965.2
27.5°	960.4	958.4	960.4	958.4	960.4	957.5	956.5	955.5	951.7	948.7	941.0
30°	937.1	935.2	937.1	935.2	933.2	931.3	926.5	924.5	928.4	926.5	913.9
32.5°	908.0	906.1	908.0	908.0	906.1	906.1	898.4	895.5	896.4	902.2	890.6
35°	878.0	875.1	878.0	877.0	878.0	875.1	870.3	869.3	865.4	872.2	863.5
37.5°	843.1	840.2	843.1	843.1	843.1	845.1	841.2	838.3	832.5	841.2	834.4
40°	807.3	803.4	807.3	806.3	807.3	809.2	807.3	805.3	799.5	806.3	800.5
42.5°	766.6	765.6	766.6	767.5	767.5	771.4	774.3	770.5	768.5	763.7	767.5
45°	723.0	721.0	723.0	724.9	725.9	727.8	736.5	736.5	733.6	725.9	731.7
47.5°	676.5	671.6	676.5	682.3	682.3	685.2	693.9	700.7	695.8	686.1	689.1
50°	627.0	628.0	627.0	630.9	630.9	641.6	648.4	655.1	660.0	648.4	634.8
52.5°	578.6	577.6	578.6	581.5	585.4	590.2	601.8	608.6	616.4	609.6	588.3
55°	530.1	532.1	530.1	531.1	533.0	536.0	553.4	560.2	574.7	566.0	543.7
57.5°	481.7	478.8	481.7	483.6	484.6	487.5	502.0	514.6	523.4	524.3	497.2
60°	425.5	421.6	425.5	434.2	436.1	438.1	451.7	463.3	471.0	473.9	445.8
62.5°	376.1	369.3	376.1	381.9	385.8	390.6	400.3	417.7	424.5	425.5	385.8
65°	323.6	320.7	323.6	335.3	336.2	342.1	352.8	365.4	379.9	378.0	320.7
67.5°	276.2	276.2	276.2	283.9	289.7	292.6	306.2	312.0	330.4	332.4	267.4
70°	232.6	231.6	232.6	238.4	242.2	249.0	261.6	268.4	282.9	287.8	217.1
72.5°	190.9	189.9	190.9	195.7	199.6	205.4	216.1	223.8	236.4	242.2	168.6
75°	154.1	152.1	154.1	157.9	157.0	164.7	173.5	181.2	192.8	196.7	125.0
77.5°	118.2	118.2	118.2	122.1	122.1	129.8	133.7	143.4	150.2	156.0	92.1
80°	88.2	87.2	88.2	89.1	89.1	93.0	99.8	106.6	112.4	112.4	63.0
82.5°	62.0	60.1	62.0	62.0	62.0	64.0	67.8	69.8	73.6	76.6	39.7
85°	38.8	38.8	38.8	39.7	38.8	40.7	41.7	43.6	43.6	41.7	24.2
87.5°	25.2	24.2	25.2	24.2	24.2	23.3	23.3	23.3	22.3	21.3	13.6
90°	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4	17.7	11.2
92.5°	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5	109.4	77.8
95°	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8	269.1	151.6
97.5°	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8	362.5	166.5
100°	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5	396.5	179.0
102.5°	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2	412.1	191.5
105°	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4	423.6	210.0
107.5°	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8	425.8	237.4
110°	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9	422.5	252.7





TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5	422.7	271.2
115°	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6	426.6	299.0
117.5°	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1	434.5	326.1
120°	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2	440.9	341.8
122.5°	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1	450.2	360.4
125°	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4	462.7	384.1
127.5°	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0	475.2	407.1
130°	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0	484.3	422.4
132.5°	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4	491.7	434.9
135°	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0	499.8	449.4
137.5°	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5	511.8	467.9
140°	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0	519.3	480.4
142.5°	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1	525.5	489.7
145°	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2	533.5	503.8
147.5°	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0	545.4	521.5
150°	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2	551.6	530.8
152.5°	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4	555.5	536.8
155°	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4	564.4	550.2
157.5°	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3	573.3	563.5
160°	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7	577.3	569.5
162.5°	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2	581.6	576.0
165°	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2	587.8	585.2
167.5°	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5	592.6	590.5
170°	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8	596.6	596.5
172.5°	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7	599.3	600.6
177.5°	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4	599.6	600.6
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1039.0	1033.1	1033.1	1023.4	1019.5	1016.6	1011.7	997.2	993.3	989.4	995.3
5°	1047.7	1037.0	1029.2	1011.7	997.2	991.4	973.0	938.1	914.8	897.4	887.7
7.5°	1049.6	1036.1	1021.4	994.3	959.4	943.9	887.7	823.7	806.3	790.8	781.1
10°	1047.7	1032.1	1011.7	971.0	888.7	861.5	805.3	763.7	753.0	750.1	753.0
12.5°	1040.9	1026.3	998.2	930.3	815.0	796.6	763.7	739.4	737.5	742.4	768.5
15°	1029.2	1015.6	982.7	876.1	774.3	760.8	737.5	728.8	739.4	773.4	851.8
17.5°	1017.5	1002.0	961.3	822.8	743.3	733.6	717.2	734.6	794.7	840.2	866.4
20°	1002.0	983.6	937.1	784.0	721.0	712.3	704.6	783.0	828.6	845.1	859.6
22.5°	983.6	964.3	904.2	756.9	697.8	691.0	695.8	810.2	828.6	840.2	852.8
25°	959.4	942.9	865.4	735.6	679.4	671.6	690.0	807.3	817.9	820.8	846.0
27.5°	937.1	915.8	824.7	716.2	657.1	654.2	694.9	794.7	802.4	805.3	832.5
30°	910.0	878.0	779.2	695.8	633.8	632.9	695.8	779.2	777.2	785.0	812.1
32.5°	881.9	821.8	727.8	670.6	611.5	610.6	689.1	755.9	754.0	764.6	785.0
35°	855.7	778.2	658.0	641.6	583.4	584.4	672.6	728.8	729.8	739.4	752.0
37.5°	828.6	740.4	581.5	609.6	556.3	556.3	650.3	703.6	701.7	704.6	722.0
40°	796.6	681.3	513.7	567.9	531.1	528.2	623.2	676.5	669.7	668.7	692.9
42.5°	762.7	616.4	463.3	512.7	502.0	498.2	590.2	643.5	630.9	633.8	664.8
45°	725.9	598.9	424.5	433.2	472.0	469.1	554.4	605.7	597.0	604.8	636.7
47.5°	689.1	564.1	411.9	359.6	440.0	439.1	514.6	568.9	564.1	571.8	605.7
50°	638.7	525.3	411.0	308.1	404.2	408.0	467.2	533.0	533.0	539.8	575.7
52.5°	573.7	477.8	373.2	279.1	362.5	374.1	425.5	502.0	504.0	510.8	542.7
55°	514.6	428.4	346.0	256.8	313.0	338.2	384.8	470.1	473.9	480.7	509.8
57.5°	460.4	356.7	340.1	230.6	267.4	291.7	348.9	439.1	441.0	446.8	474.9
60°	402.2	257.8	312.0	202.5	227.7	246.1	315.9	402.2	409.0	412.9	437.1
62.5°	336.2	187.0	282.9	183.1	208.3	212.2	288.8	367.3	376.1	379.0	393.5
65°	239.3	157.0	240.3	166.7	188.0	189.0	259.7	331.4	339.2	344.0	354.8
67.5°	161.8	127.9	183.1	151.2	172.5	173.5	231.6	289.7	300.4	304.3	311.0
70°	112.4	85.3	135.7	134.7	155.0	157.0	201.6	251.9	261.6	264.5	268.4
72.5°	82.4	68.8	112.4	121.1	136.6	138.6	170.5	209.3	219.0	221.9	223.8
75°	63.0	72.7	91.1	105.6	116.3	117.2	139.5	170.5	177.3	179.3	180.2
77.5°	50.4	67.8	66.9	85.3	95.0	93.0	109.5	131.8	137.6	137.6	137.6
80°	37.8	53.3	50.4	61.0	69.8	67.8	78.5	94.0	95.9	97.9	96.9
82.5°	28.1	33.9	33.9	38.8	46.5	44.6	52.3	61.0	61.0	61.0	63.0
85°	17.4	19.4	15.5	20.3	26.2	25.2	29.1	32.9	33.9	33.9	32.0
87.5°	10.7	8.7	4.8	7.8	11.6	11.6	13.6	14.5	13.6	13.6	13.6
90°	10.5	7.3	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4
92.5°	70.9	43.5	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5
95°	139.1	88.9	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4
97.5°	155.4	111.1	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6
100°	168.9	128.8	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0
102.5°	182.1	144.7	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4
105°	202.0	170.4	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8
107.5°	230.0	200.5	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5
110°	246.0	219.4	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	264.8	239.4	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6
115°	293.1	269.7	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5
117.5°	320.7	299.4	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2
120°	336.7	316.7	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9
122.5°	355.3	335.1	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5
125°	379.5	361.0	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9
127.5°	402.4	383.7	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2
130°	417.3	397.3	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2
132.5°	429.8	409.8	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4
135°	444.9	426.6	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9
137.5°	463.4	445.4	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8
140°	476.3	459.6	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2
142.5°	485.9	470.4	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7
145°	500.4	487.0	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6
147.5°	518.2	505.2	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4
150°	527.8	516.0	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8
152.5°	534.6	525.6	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5
155°	548.6	541.9	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6
157.5°	561.8	555.4	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0
160°	568.2	563.3	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7
162.5°	575.0	571.2	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6
165°	584.3	580.9	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5
167.5°	590.1	588.5	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1
170°	596.1	594.5	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1
172.5°	596.8	596.5	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9
175°	600.6	600.6	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0
177.5°	600.6	600.6	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935198  
 CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	988.5	985.6	989.4	978.8	989.4	985.6	988.5	995.3	989.4	993.3	997.2
5°	867.4	862.5	847.0	834.4	847.0	862.5	867.4	887.7	897.4	914.8	938.1
7.5°	775.3	771.4	767.5	759.8	767.5	771.4	775.3	781.1	790.8	806.3	823.7
10°	754.9	755.9	761.7	760.8	761.7	755.9	754.9	753.0	750.1	753.0	763.7
12.5°	807.3	816.0	848.0	846.0	848.0	816.0	807.3	768.5	742.4	737.5	739.4
15°	867.4	870.3	877.0	878.0	877.0	870.3	867.4	851.8	773.4	739.4	728.8
17.5°	873.2	874.1	879.0	879.0	879.0	874.1	873.2	866.4	840.2	794.7	734.6
20°	868.3	870.3	879.9	881.9	879.9	870.3	868.3	859.6	845.1	828.6	783.0
22.5°	866.4	870.3	878.0	877.0	878.0	870.3	866.4	852.8	840.2	828.6	810.2
25°	856.7	856.7	857.7	858.6	857.7	856.7	856.7	846.0	820.8	817.9	807.3
27.5°	836.3	838.3	844.1	843.1	844.1	838.3	836.3	832.5	805.3	802.4	794.7
30°	817.9	816.0	811.1	807.3	811.1	816.0	817.9	812.1	785.0	777.2	779.2
32.5°	786.9	782.1	777.2	774.3	777.2	782.1	786.9	785.0	764.6	754.0	755.9
35°	750.1	751.1	750.1	747.2	750.1	751.1	750.1	752.0	739.4	729.8	728.8
37.5°	723.9	725.9	724.9	721.0	724.9	725.9	723.9	722.0	704.6	701.7	703.6
40°	696.8	697.8	696.8	693.9	696.8	697.8	696.8	692.9	668.7	669.7	676.5
42.5°	670.6	669.7	666.8	664.8	666.8	669.7	670.6	664.8	633.8	630.9	643.5
45°	640.6	641.6	635.8	632.9	635.8	641.6	640.6	636.7	604.8	597.0	605.7
47.5°	610.6	610.6	605.7	602.8	605.7	610.6	610.6	605.7	571.8	564.1	568.9
50°	578.6	577.6	570.8	569.9	570.8	577.6	578.6	575.7	539.8	533.0	533.0
52.5°	541.8	541.8	542.7	544.7	542.7	541.8	541.8	542.7	510.8	504.0	502.0
55°	509.8	510.8	517.5	519.5	517.5	510.8	509.8	509.8	480.7	473.9	470.1
57.5°	476.8	476.8	481.7	481.7	481.7	476.8	476.8	474.9	446.8	441.0	439.1
60°	439.1	441.0	444.9	443.9	444.9	441.0	439.1	437.1	412.9	409.0	402.2
62.5°	399.3	401.3	402.2	400.3	402.2	401.3	399.3	393.5	379.0	376.1	367.3
65°	357.7	359.6	360.6	358.6	360.6	359.6	357.7	354.8	344.0	339.2	331.4
67.5°	314.9	314.0	313.0	316.9	313.0	314.0	314.9	311.0	304.3	300.4	289.7
70°	271.3	271.3	270.4	272.3	270.4	271.3	271.3	268.4	264.5	261.6	251.9
72.5°	224.8	223.8	227.7	224.8	227.7	223.8	224.8	223.8	221.9	219.0	209.3
75°	179.3	181.2	179.3	182.2	179.3	181.2	179.3	180.2	179.3	177.3	170.5
77.5°	136.6	138.6	136.6	136.6	136.6	138.6	136.6	137.6	137.6	137.6	131.8
80°	96.9	95.9	95.9	95.0	95.9	95.9	96.9	96.9	97.9	95.9	94.0
82.5°	62.0	61.0	61.0	63.0	61.0	61.0	62.0	63.0	61.0	61.0	61.0
85°	33.9	34.9	32.9	32.9	32.9	34.9	33.9	32.0	33.9	33.9	32.9
87.5°	12.6	11.6	11.6	11.6	11.6	11.6	12.6	13.6	13.6	13.6	14.5
90°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4
92.5°	76.6	73.5	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5
95°	260.0	250.8	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8
97.5°	600.1	582.6	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8
100°	842.7	821.8	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5
102.5°	1049.9	1032.0	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2
105°	1291.8	1282.2	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4
107.5°	1417.6	1419.9	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8
110°	1449.7	1459.8	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1429.2	1444.6	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5
115°	1359.5	1380.8	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6
117.5°	1263.2	1286.8	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1
120°	1198.3	1221.3	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2
122.5°	1133.3	1156.0	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1
125°	1047.5	1068.4	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4
127.5°	978.6	996.2	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0
130°	935.1	951.4	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0
132.5°	898.0	912.6	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4
135°	845.5	858.1	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0
137.5°	806.9	817.2	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5
140°	775.9	785.5	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0
142.5°	754.1	762.4	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1
145°	721.4	727.7	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2
147.5°	694.1	699.3	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0
150°	678.3	682.5	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2
152.5°	665.8	669.0	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4
155°	650.9	653.0	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4
157.5°	638.0	639.4	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3
160°	631.6	632.5	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7
162.5°	625.5	626.3	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2
165°	616.3	617.2	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2
167.5°	612.2	612.6	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5
170°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8
172.5°	609.0	608.7	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7
177.5°	603.8	603.4	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1011.7	1016.6	1019.5	1023.4	1033.1
5°	973.0	991.4	997.2	1011.7	1029.2
7.5°	887.7	943.9	959.4	994.3	1021.4
10°	805.3	861.5	888.7	971.0	1011.7
12.5°	763.7	796.6	815.0	930.3	998.2
15°	737.5	760.8	774.3	876.1	982.7
17.5°	717.2	733.6	743.3	822.8	961.3
20°	704.6	712.3	721.0	784.0	937.1
22.5°	695.8	691.0	697.8	756.9	904.2
25°	690.0	671.6	679.4	735.6	865.4
27.5°	694.9	654.2	657.1	716.2	824.7
30°	695.8	632.9	633.8	695.8	779.2
32.5°	689.1	610.6	611.5	670.6	727.8
35°	672.6	584.4	583.4	641.6	658.0
37.5°	650.3	556.3	556.3	609.6	581.5
40°	623.2	528.2	531.1	567.9	513.7
42.5°	590.2	498.2	502.0	512.7	463.3
45°	554.4	469.1	472.0	433.2	424.5
47.5°	514.6	439.1	440.0	359.6	411.9
50°	467.2	408.0	404.2	308.1	411.0
52.5°	425.5	374.1	362.5	279.1	373.2
55°	384.8	338.2	313.0	256.8	346.0
57.5°	348.9	291.7	267.4	230.6	340.1
60°	315.9	246.1	227.7	202.5	312.0
62.5°	288.8	212.2	208.3	183.1	282.9
65°	259.7	189.0	188.0	166.7	240.3
67.5°	231.6	173.5	172.5	151.2	183.1
70°	201.6	157.0	155.0	134.7	135.7
72.5°	170.5	138.6	136.6	121.1	112.4
75°	139.5	117.2	116.3	105.6	91.1
77.5°	109.5	93.0	95.0	85.3	66.9
80°	78.5	67.8	69.8	61.0	50.4
82.5°	52.3	44.6	46.5	38.8	33.9
85°	29.1	25.2	26.2	20.3	15.5
87.5°	13.6	11.6	11.6	7.8	4.8
90°	17.7	11.2	10.5	7.3	4.1
92.5°	109.4	77.8	70.9	43.5	16.1
95°	269.1	151.6	139.1	88.9	38.7
97.5°	362.5	166.5	155.4	111.1	66.9
100°	396.5	179.0	168.9	128.8	88.7
102.5°	412.1	191.5	182.1	144.7	107.2
105°	423.6	210.0	202.0	170.4	138.7
107.5°	425.8	237.4	230.0	200.5	170.9
110°	422.5	252.7	246.0	219.4	192.6



TEST NUMBER: P935198

CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	422.7	271.2	264.8	239.4	214.1
115°	426.6	299.0	293.1	269.7	246.2
117.5°	434.5	326.1	320.7	299.4	278.1
120°	440.9	341.8	336.7	316.7	296.6
122.5°	450.2	360.4	355.3	335.1	314.8
125°	462.7	384.1	379.5	361.0	342.6
127.5°	475.2	407.1	402.4	383.7	365.1
130°	484.3	422.4	417.3	397.3	377.2
132.5°	491.7	434.9	429.8	409.8	389.7
135°	499.8	449.4	444.9	426.6	408.3
137.5°	511.8	467.9	463.4	445.4	427.2
140°	519.3	480.4	476.3	459.6	442.9
142.5°	525.5	489.7	485.9	470.4	455.0
145°	533.5	503.8	500.4	487.0	473.6
147.5°	545.4	521.5	518.2	505.2	492.2
150°	551.6	530.8	527.8	516.0	504.2
152.5°	555.5	536.8	534.6	525.6	516.7
155°	564.4	550.2	548.6	541.9	535.3
157.5°	573.3	563.5	561.8	555.4	548.9
160°	577.3	569.5	568.2	563.3	558.2
162.5°	581.6	576.0	575.0	571.2	567.4
165°	587.8	585.2	584.3	580.9	577.5
167.5°	592.6	590.5	590.1	588.5	586.8
170°	596.6	596.5	596.1	594.5	592.9
172.5°	596.9	596.9	596.8	596.5	596.1
175°	599.3	600.6	600.6	600.6	600.6
177.5°	599.6	600.6	600.6	600.6	600.6
180°	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935198  
 CATALOG NUMBER: SQ4-FA-100U-075D-B35-1D-UNV-STD-W-4

**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	11.68	12.46	12.71	13.50	14.90	14.48	15.26	15.51	16.30	17.70
	3H	12.15	12.85	13.19	13.90	15.32	15.81	16.51	16.85	17.56	18.97
	4H	12.34	13.00	13.39	14.05	15.48	16.24	16.90	17.30	17.96	19.38
	6H	12.45	13.06	13.52	14.12	15.56	16.51	17.12	17.58	18.18	19.62
	8H	12.45	13.03	13.52	14.10	15.54	16.58	17.16	17.65	18.23	19.67
	12H	12.42	12.97	13.49	14.04	15.50	16.61	17.16	17.69	18.23	19.69
4H	2H	12.69	13.36	13.76	14.41	15.84	14.88	15.54	15.94	16.59	18.02
	3H	13.71	14.27	14.78	15.35	16.78	16.37	16.92	17.44	18.00	19.44
	4H	13.99	14.49	15.06	15.56	17.02	16.88	17.39	17.96	18.46	19.92
	6H	14.11	14.54	15.19	15.64	17.09	17.24	17.67	18.32	18.77	20.22
	8H	14.11	14.52	15.20	15.60	17.07	17.34	17.74	18.42	18.83	20.30
	12H	14.07	14.44	15.18	15.54	17.02	17.38	17.75	18.49	18.85	20.33
8H	4H	14.43	14.83	15.51	15.92	17.39	17.00	17.41	18.09	18.49	19.97
	6H	14.69	15.02	15.79	16.15	17.62	17.43	17.76	18.54	18.89	20.36
	8H	14.73	15.02	15.84	16.13	17.62	17.57	17.87	18.69	18.98	20.47
	12H	14.71	14.97	15.83	16.07	17.60	17.66	17.92	18.78	19.03	20.55
12H	4H	14.43	14.80	15.53	15.90	17.37	16.96	17.33	18.07	18.43	19.91
	6H	14.74	15.04	15.86	16.15	17.64	17.42	17.72	18.54	18.83	20.32
	8H	14.81	15.07	15.93	16.17	17.70	17.58	17.84	18.70	18.94	20.47