

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: P933998

Luminaire Tested: SQ4-FA-025U-075D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

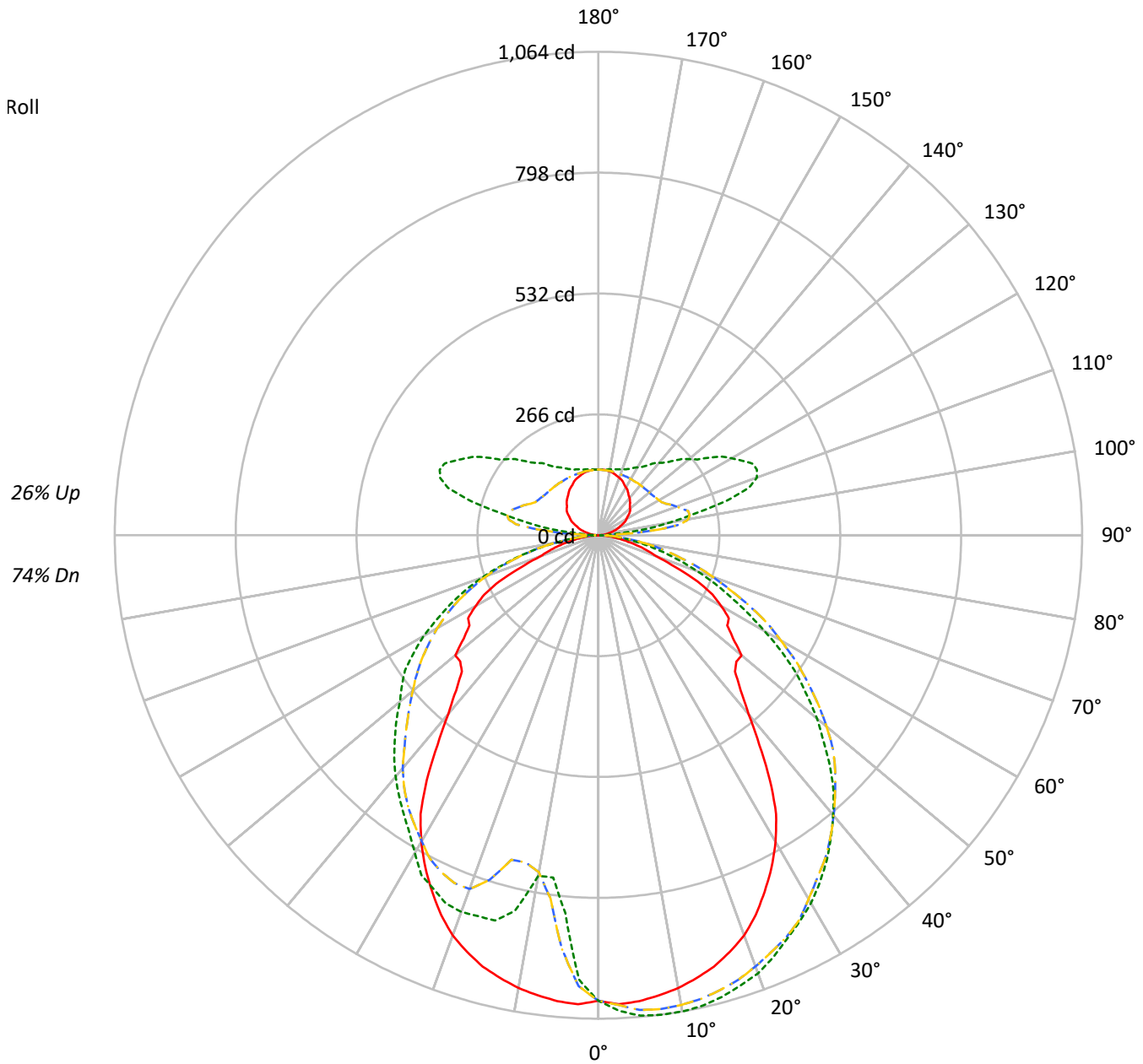
Test Method: LM-79-2019  
Report Number: P933998  
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-075D-B35-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3593.9 lumens  
Efficiency: N/A  
Efficacy: 119.8 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-Direct  
  
Input Watts (W): 30  
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: P933998  
CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot



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



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

**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: P933998

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	2.6
10°-20°	262.5	7.3
20°-30°	405.8	11.3
30°-40°	484.5	13.5
40°-50°	487.3	13.6
50°-60°	424.0	11.8
60°-70°	300.6	8.4
70°-80°	159.0	4.4
80°-90°	40.2	1.1
90°-100°	70.5	2.0
100°-110°	185.3	5.2
110°-120°	192.2	5.3
120°-130°	154.1	4.3
130°-140°	120.9	3.4
140°-150°	92.8	2.6
150°-160°	66.8	1.9
160°-170°	40.9	1.1
170°-180°	13.8	0.4
0°-30°	760.8	21.2
0°-40°	1245.3	34.7
0°-60°	2156.7	60.0
0°-90°	2656.5	73.9
90°-120°	448.0	12.5
90°-150°	815.9	22.7
90°-180°	937.0	26.1
0°-180°	3593.9	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°	1	4	1	4	1	1
95°	9	43	9	43	9	10
105°	33	290	33	290	33	35
115°	59	374	59	374	59	59
125°	82	298	82	298	82	73
135°	98	231	98	231	98	76
145°	114	187	114	187	114	71
155°	129	161	129	161	129	59
165°	139	150	139	150	139	39
175°	145	146	145	146	145	14
180°	145	145	145	145	145	



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-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°	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9	3.7	3.7
92.5°	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2	18.4	17.6
95°	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2	62.6	60.4
97.5°	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9	144.5	140.2
100°	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0	202.9	197.9
102.5°	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0	252.8	248.5
105°	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7	311.0	308.7
107.5°	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0	341.4	342.0
110°	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9	349.1	351.6



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-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°	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7	344.2	347.9
115°	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0	327.3	332.5
117.5°	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0	304.2	309.9
120°	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7	288.6	294.1
122.5°	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5	272.9	278.3
125°	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9	252.2	257.3
127.5°	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2	235.7	239.9
130°	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9	225.2	229.1
132.5°	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7	216.3	219.8
135°	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9	203.6	206.6
137.5°	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6	194.3	196.8
140°	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5	186.8	189.1
142.5°	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0	181.6	183.6
145°	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4	173.7	175.3
147.5°	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0	167.2	168.4
150°	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5	163.4	164.3
152.5°	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5	160.4	161.1
155°	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1	156.8	157.3
157.5°	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0	153.6	154.0
160°	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9	152.0	152.2
162.5°	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0	150.6	150.8
165°	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5	148.4	148.5
167.5°	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1	147.4	147.5
170°	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1	147.4	147.4
172.5°	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6	146.6	146.5
175°	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0	145.5	145.5
177.5°	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9	145.4	145.3
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-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°	3.7	3.7	3.7	3.7	3.7	4.9	6.6	7.4	6.3	4.3	2.7
92.5°	14.7	11.8	14.7	17.6	18.4	26.2	36.4	41.6	36.5	26.4	18.7
95°	51.6	42.6	51.6	60.4	62.6	82.2	108.3	121.4	102.5	64.8	36.5
97.5°	123.4	106.5	123.4	140.2	144.5	156.9	173.5	181.7	150.2	87.3	40.1
100°	177.8	157.7	177.8	197.9	202.9	202.0	200.8	200.2	165.3	95.4	43.1
102.5°	231.2	214.0	231.2	248.5	252.8	237.0	216.0	205.4	170.1	99.2	46.1
105°	299.5	290.2	299.5	308.7	311.0	275.7	228.5	204.8	170.5	102.0	50.6
107.5°	344.2	346.4	344.2	342.0	341.4	292.0	226.2	193.2	163.0	102.5	57.2
110°	361.1	370.8	361.1	351.6	349.1	293.9	220.4	183.5	156.3	101.7	60.9





TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-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°	362.7	377.5	362.7	347.9	344.2	287.7	212.4	174.7	150.4	101.7	65.3
115°	353.1	373.6	353.1	332.5	327.3	273.0	200.4	164.1	143.7	102.7	72.0
117.5°	332.7	355.5	332.7	309.9	304.2	255.0	189.6	156.9	139.4	104.7	78.5
120°	316.3	338.4	316.3	294.1	288.6	243.7	183.8	153.9	138.0	106.1	82.3
122.5°	300.2	322.1	300.2	278.3	272.9	232.5	178.6	151.6	137.2	108.3	86.7
125°	277.4	297.6	277.4	257.3	252.2	217.9	172.1	149.2	136.6	111.4	92.5
127.5°	256.9	273.8	256.9	239.9	235.7	206.2	166.9	147.2	136.2	114.4	98.1
130°	244.8	260.5	244.8	229.1	225.2	198.9	164.0	146.4	136.5	116.7	101.7
132.5°	233.8	247.9	233.8	219.8	216.3	192.7	161.4	145.7	136.6	118.4	104.7
135°	218.8	230.9	218.8	206.6	203.6	183.9	157.7	144.6	136.5	120.3	108.2
137.5°	206.7	216.7	206.7	196.8	194.3	177.6	155.4	144.4	137.3	123.3	112.7
140°	198.4	207.7	198.4	189.1	186.8	172.5	153.3	143.7	137.5	125.0	115.7
142.5°	191.6	199.5	191.6	183.6	181.6	169.0	152.1	143.7	138.0	126.6	117.9
145°	181.3	187.3	181.3	175.3	173.7	163.4	149.6	142.7	138.0	128.5	121.3
147.5°	173.4	178.4	173.4	168.4	167.2	159.0	148.2	142.7	139.0	131.3	125.6
150°	168.4	172.5	168.4	164.3	163.4	156.5	147.3	142.7	139.4	132.8	127.8
152.5°	164.1	167.2	164.1	161.1	160.4	154.5	146.6	142.7	139.7	133.7	129.3
155°	159.3	161.3	159.3	157.3	156.8	152.1	145.8	142.7	140.4	135.9	132.5
157.5°	155.4	156.9	155.4	154.0	153.6	150.0	145.2	142.7	141.2	138.0	135.7
160°	153.1	153.9	153.1	152.2	152.0	148.9	144.8	142.7	141.5	139.0	137.1
162.5°	151.6	152.3	151.6	150.8	150.6	148.0	144.5	142.7	141.9	140.0	138.7
165°	149.4	150.2	149.4	148.5	148.4	146.5	144.0	142.7	142.3	141.5	140.9
167.5°	147.8	148.2	147.8	147.5	147.4	146.1	144.5	143.7	143.3	142.6	142.2
170°	147.4	147.4	147.4	147.4	147.4	146.1	144.5	143.7	143.7	143.6	143.6
172.5°	146.2	145.9	146.2	146.5	146.6	145.6	144.4	143.7	143.7	143.7	143.7
175°	145.5	145.5	145.5	145.5	145.5	145.0	144.1	143.7	143.9	144.3	144.6
177.5°	145.0	144.6	145.0	145.3	145.4	144.9	144.2	143.9	144.1	144.4	144.6
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-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°	2.5	1.7	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9
92.5°	17.1	10.5	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2
95°	33.5	21.4	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2
97.5°	37.4	26.7	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9
100°	40.7	31.0	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0
102.5°	43.9	34.8	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0
105°	48.6	41.1	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7
107.5°	55.4	48.3	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0
110°	59.2	52.8	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	63.8	57.7	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7
115°	70.5	64.9	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0
117.5°	77.2	72.1	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0
120°	81.1	76.3	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7
122.5°	85.5	80.6	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5
125°	91.4	86.9	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9
127.5°	96.9	92.4	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2
130°	100.5	95.6	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9
132.5°	103.6	98.7	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7
135°	107.2	102.7	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9
137.5°	111.6	107.3	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6
140°	114.7	110.7	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5
142.5°	117.0	113.3	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0
145°	120.5	117.2	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4
147.5°	124.8	121.6	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0
150°	127.1	124.2	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5
152.5°	128.7	126.6	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5
155°	132.1	130.4	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1
157.5°	135.3	133.7	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0
160°	136.8	135.6	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9
162.5°	138.5	137.5	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0
165°	140.7	139.8	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5
167.5°	142.1	141.7	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1
170°	143.5	143.1	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1
172.5°	143.7	143.6	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6
175°	144.6	144.6	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0
177.5°	144.6	144.6	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P933998  
 CATALOG NUMBER: SQ4-FA-025U-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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	6.6	7.4	6.3
92.5°	18.4	17.6	14.7	11.8	14.7	17.6	18.4	26.2	36.4	41.6	36.5
95°	62.6	60.4	51.6	42.6	51.6	60.4	62.6	82.2	108.3	121.4	102.5
97.5°	144.5	140.2	123.4	106.5	123.4	140.2	144.5	156.9	173.5	181.7	150.2
100°	202.9	197.9	177.8	157.7	177.8	197.9	202.9	202.0	200.8	200.2	165.3
102.5°	252.8	248.5	231.2	214.0	231.2	248.5	252.8	237.0	216.0	205.4	170.1
105°	311.0	308.7	299.5	290.2	299.5	308.7	311.0	275.7	228.5	204.8	170.5
107.5°	341.4	342.0	344.2	346.4	344.2	342.0	341.4	292.0	226.2	193.2	163.0
110°	349.1	351.6	361.1	370.8	361.1	351.6	349.1	293.9	220.4	183.5	156.3



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-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°	344.2	347.9	362.7	377.5	362.7	347.9	344.2	287.7	212.4	174.7	150.4
115°	327.3	332.5	353.1	373.6	353.1	332.5	327.3	273.0	200.4	164.1	143.7
117.5°	304.2	309.9	332.7	355.5	332.7	309.9	304.2	255.0	189.6	156.9	139.4
120°	288.6	294.1	316.3	338.4	316.3	294.1	288.6	243.7	183.8	153.9	138.0
122.5°	272.9	278.3	300.2	322.1	300.2	278.3	272.9	232.5	178.6	151.6	137.2
125°	252.2	257.3	277.4	297.6	277.4	257.3	252.2	217.9	172.1	149.2	136.6
127.5°	235.7	239.9	256.9	273.8	256.9	239.9	235.7	206.2	166.9	147.2	136.2
130°	225.2	229.1	244.8	260.5	244.8	229.1	225.2	198.9	164.0	146.4	136.5
132.5°	216.3	219.8	233.8	247.9	233.8	219.8	216.3	192.7	161.4	145.7	136.6
135°	203.6	206.6	218.8	230.9	218.8	206.6	203.6	183.9	157.7	144.6	136.5
137.5°	194.3	196.8	206.7	216.7	206.7	196.8	194.3	177.6	155.4	144.4	137.3
140°	186.8	189.1	198.4	207.7	198.4	189.1	186.8	172.5	153.3	143.7	137.5
142.5°	181.6	183.6	191.6	199.5	191.6	183.6	181.6	169.0	152.1	143.7	138.0
145°	173.7	175.3	181.3	187.3	181.3	175.3	173.7	163.4	149.6	142.7	138.0
147.5°	167.2	168.4	173.4	178.4	173.4	168.4	167.2	159.0	148.2	142.7	139.0
150°	163.4	164.3	168.4	172.5	168.4	164.3	163.4	156.5	147.3	142.7	139.4
152.5°	160.4	161.1	164.1	167.2	164.1	161.1	160.4	154.5	146.6	142.7	139.7
155°	156.8	157.3	159.3	161.3	159.3	157.3	156.8	152.1	145.8	142.7	140.4
157.5°	153.6	154.0	155.4	156.9	155.4	154.0	153.6	150.0	145.2	142.7	141.2
160°	152.0	152.2	153.1	153.9	153.1	152.2	152.0	148.9	144.8	142.7	141.5
162.5°	150.6	150.8	151.6	152.3	151.6	150.8	150.6	148.0	144.5	142.7	141.9
165°	148.4	148.5	149.4	150.2	149.4	148.5	148.4	146.5	144.0	142.7	142.3
167.5°	147.4	147.5	147.8	148.2	147.8	147.5	147.4	146.1	144.5	143.7	143.3
170°	147.4	147.4	147.4	147.4	147.4	147.4	147.4	146.1	144.5	143.7	143.7
172.5°	146.6	146.5	146.2	145.9	146.2	146.5	146.6	145.6	144.4	143.7	143.7
175°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.0	144.1	143.7	143.9
177.5°	145.4	145.3	145.0	144.6	145.0	145.3	145.4	144.9	144.2	143.9	144.1
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P933998  
 CATALOG NUMBER: SQ4-FA-025U-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°	4.3	2.7	2.5	1.7	1.0
92.5°	26.4	18.7	17.1	10.5	3.9
95°	64.8	36.5	33.5	21.4	9.3
97.5°	87.3	40.1	37.4	26.7	16.1
100°	95.4	43.1	40.7	31.0	21.3
102.5°	99.2	46.1	43.9	34.8	25.8
105°	102.0	50.6	48.6	41.1	33.4
107.5°	102.5	57.2	55.4	48.3	41.2
110°	101.7	60.9	59.2	52.8	46.4



TEST NUMBER: P933998

CATALOG NUMBER: SQ4-FA-025U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	101.7	65.3	63.8	57.7	51.6
115°	102.7	72.0	70.5	64.9	59.3
117.5°	104.7	78.5	77.2	72.1	67.0
120°	106.1	82.3	81.1	76.3	71.4
122.5°	108.3	86.7	85.5	80.6	75.8
125°	111.4	92.5	91.4	86.9	82.5
127.5°	114.4	98.1	96.9	92.4	87.9
130°	116.7	101.7	100.5	95.6	90.8
132.5°	118.4	104.7	103.6	98.7	93.9
135°	120.3	108.2	107.2	102.7	98.4
137.5°	123.3	112.7	111.6	107.3	102.9
140°	125.0	115.7	114.7	110.7	106.7
142.5°	126.6	117.9	117.0	113.3	109.6
145°	128.5	121.3	120.5	117.2	114.1
147.5°	131.3	125.6	124.8	121.6	118.5
150°	132.8	127.8	127.1	124.2	121.4
152.5°	133.7	129.3	128.7	126.6	124.4
155°	135.9	132.5	132.1	130.4	128.9
157.5°	138.0	135.7	135.3	133.7	132.2
160°	139.0	137.1	136.8	135.6	134.4
162.5°	140.0	138.7	138.5	137.5	136.6
165°	141.5	140.9	140.7	139.8	139.1
167.5°	142.6	142.2	142.1	141.7	141.3
170°	143.6	143.6	143.5	143.1	142.7
172.5°	143.7	143.7	143.7	143.6	143.5
175°	144.3	144.6	144.6	144.6	144.6
177.5°	144.4	144.6	144.6	144.6	144.6
180°	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P933998  
 CATALOG NUMBER: SQ4-FA-025U-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	14.58	15.71	15.30	16.45	17.33	17.38	18.51	18.10	19.25	20.13
	3H	15.08	16.09	15.81	16.84	17.76	18.74	19.75	19.47	20.50	21.41
	4H	15.28	16.24	16.04	17.00	17.93	19.19	20.14	19.94	20.90	21.83
	6H	15.42	16.30	16.18	17.07	18.01	19.48	20.36	20.24	21.13	22.07
	8H	15.42	16.26	16.20	17.05	18.00	19.55	20.39	20.33	21.18	22.13
	12H	15.40	16.21	16.19	16.99	17.96	19.60	20.40	20.38	21.18	22.15
4H	2H	15.64	16.59	16.40	17.36	18.28	17.82	18.78	18.58	19.54	20.47
	3H	16.69	17.49	17.46	18.28	19.23	19.34	20.14	20.11	20.94	21.88
	4H	16.98	17.70	17.76	18.50	19.47	19.88	20.60	20.66	21.39	22.37
	6H	17.12	17.74	17.92	18.56	19.54	20.25	20.87	21.05	21.69	22.67
	8H	17.13	17.71	17.94	18.53	19.52	20.36	20.94	21.16	21.76	22.75
	12H	17.11	17.64	17.94	18.47	19.47	20.42	20.95	21.25	21.79	22.78
8H	4H	17.45	18.03	18.25	18.85	19.84	20.02	20.61	20.83	21.42	22.42
	6H	17.72	18.20	18.55	19.06	20.06	20.46	20.95	21.30	21.80	22.80
	8H	17.76	18.20	18.61	19.05	20.06	20.61	21.04	21.46	21.90	22.91
	12H	17.76	18.14	18.61	18.99	20.05	20.72	21.10	21.56	21.94	23.01
12H	4H	17.46	17.99	18.29	18.83	19.83	20.00	20.53	20.83	21.36	22.36
	6H	17.78	18.21	18.63	19.07	20.08	20.46	20.89	21.31	21.75	22.76
	8H	17.86	18.24	18.71	19.09	20.15	20.63	21.01	21.48	21.86	22.92