

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: P934857

Luminaire Tested: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

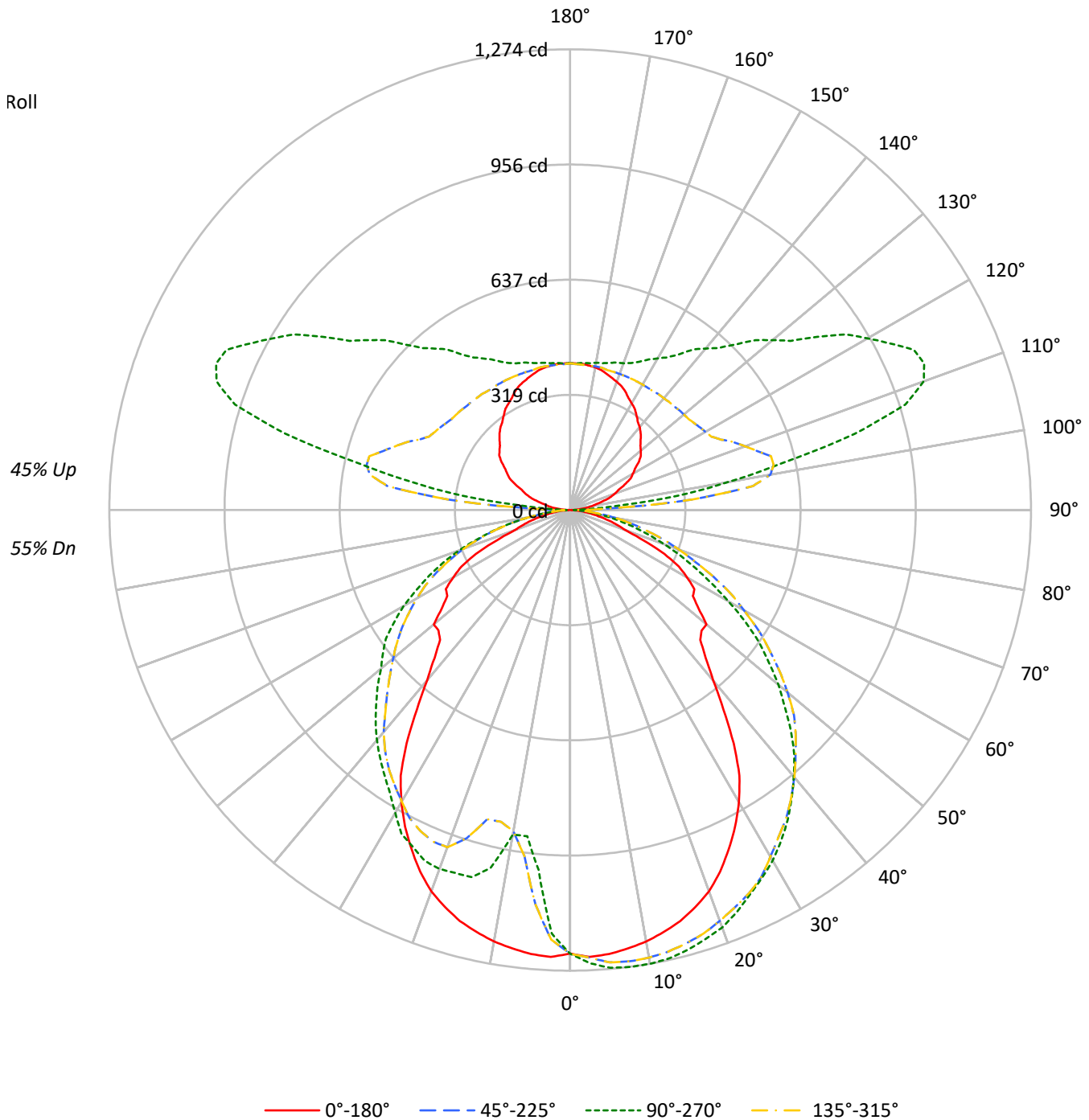
Test Method: LM-79-2019  
Report Number: P934857  
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5811.8 lumens  
Efficiency: N/A  
Efficacy: 113.5 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): 51.2  
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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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

	0°	90°	180°	270°
0°	11381	11381	11381	11381
5°	11454	11490	11454	9035
10°	11365	11318	11365	8092
15°	11229	11072	11229	9245
20°	10981	10782	10981	9265
25°	10488	10358	10488	9068
30°	9855	10006	9855	8638
35°	8772	9562	8772	8164
40°	7298	9038	7298	7806
45°	6508	8425	6508	7395
50°	6897	7694	6897	6982
55°	6471	6906	6471	6742
60°	6646	5865	6646	6175
65°	5998	4848	5998	5420
70°	4125	3865	4125	4543
75°	3578	2856	3578	3421
80°	2822	1888	2822	2056
85°	1532	1000	1532	849

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 9993 cd/sqm



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CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	1.9
10°-20°	314.4	5.4
20°-30°	486.0	8.4
30°-40°	580.1	10.0
40°-50°	583.5	10.0
50°-60°	507.7	8.7
60°-70°	360.0	6.2
70°-80°	190.5	3.3
80°-90°	49.0	0.8
90°-100°	197.8	3.4
100°-110°	519.9	8.9
110°-120°	539.1	9.3
120°-130°	432.4	7.4
130°-140°	339.3	5.8
140°-150°	260.4	4.5
150°-160°	187.5	3.2
160°-170°	114.7	2.0
170°-180°	38.8	0.7
0°-30°	911.0	15.7
0°-40°	1491.2	25.7
0°-60°	2582.4	44.4
0°-90°	3181.9	54.7
90°-120°	1256.7	21.6
90°-150°	2288.8	39.4
90°-180°	2630.0	45.3
0°-180°	5811.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1226	1226	1226	1226	1226	
5°	1232	1271	1232	999	1232	117
15°	1177	1259	1177	1051	1177	331
25°	1036	1174	1036	1028	1036	476
35°	788	1048	788	895	788	487
45°	508	863	508	758	508	407
55°	414	637	414	622	414	381
65°	288	384	288	429	288	275
75°	109	182	109	218	109	115
85°	18	46	18	39	18	25
90°	3	10	3	10	3	3
95°	26	120	26	120	26	29
105°	94	814	94	814	94	99
115°	166	1048	166	1048	166	164
125°	231	835	231	835	231	205
135°	276	648	276	648	276	213
145°	320	526	320	526	320	200
155°	362	452	362	452	362	166
165°	390	422	390	422	390	110
175°	406	408	406	408	406	39
180°	406	406	406	406	406	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1237.0	1237.0	1244.0	1246.3	1246.3	1242.8	1239.4	1242.8	1253.2	1256.8	1255.6
5°	1232.4	1241.7	1254.5	1256.8	1259.0	1257.9	1255.6	1257.9	1269.5	1271.9	1273.0
7.5°	1223.1	1240.5	1256.8	1260.3	1263.7	1260.3	1259.0	1261.4	1273.0	1275.3	1275.3
10°	1211.5	1235.9	1254.5	1256.8	1260.3	1256.8	1256.8	1261.4	1273.0	1275.3	1276.5
12.5°	1195.3	1228.9	1246.3	1248.7	1253.2	1252.1	1251.0	1255.6	1267.2	1269.5	1269.5
15°	1176.7	1216.2	1232.4	1234.7	1242.8	1240.5	1240.5	1245.2	1257.9	1261.4	1260.3
17.5°	1151.2	1199.9	1218.5	1222.0	1227.8	1226.5	1227.8	1232.4	1244.0	1246.3	1247.5
20°	1122.1	1177.9	1199.9	1203.4	1209.2	1209.2	1209.2	1215.0	1226.5	1231.2	1231.2
22.5°	1082.7	1154.6	1177.9	1180.2	1187.1	1187.1	1189.5	1197.6	1208.0	1209.2	1209.2
25°	1036.3	1129.1	1148.8	1155.8	1162.8	1166.2	1169.7	1174.4	1177.9	1176.7	1177.9
27.5°	987.6	1096.6	1122.1	1126.8	1136.1	1139.6	1144.2	1145.4	1146.5	1150.0	1147.7
30°	933.0	1051.3	1089.6	1094.3	1109.4	1111.7	1107.1	1109.4	1115.2	1117.6	1119.8
32.5°	871.5	984.0	1056.0	1066.4	1080.4	1073.4	1072.2	1075.7	1085.1	1085.1	1087.3
35°	787.9	931.9	1024.7	1033.9	1044.4	1036.3	1040.9	1042.1	1047.9	1051.3	1050.2
37.5°	696.2	886.6	992.2	999.2	1007.2	996.8	1003.8	1007.2	1011.9	1009.6	1009.6
40°	615.1	815.8	953.9	958.5	965.5	957.3	964.3	966.7	968.9	966.7	965.5
42.5°	554.7	738.0	913.3	919.1	914.4	920.2	922.6	927.2	923.7	919.1	919.1
45°	508.3	717.1	869.2	876.1	869.2	878.5	881.9	881.9	871.5	869.2	868.0
47.5°	493.2	675.4	825.1	825.1	821.6	833.2	839.0	830.9	820.4	817.0	817.0
50°	492.0	629.0	764.7	760.1	776.3	790.3	784.5	776.3	768.2	755.4	755.4
52.5°	446.8	572.1	687.0	704.4	730.0	738.0	728.7	720.6	706.7	700.9	696.2
55°	414.3	512.9	616.2	651.0	677.7	688.1	670.8	662.6	641.7	638.3	635.9
57.5°	407.4	427.0	551.2	595.3	627.8	626.7	616.2	601.1	583.7	580.2	579.1
60°	373.6	308.6	481.6	533.8	567.5	564.0	554.7	540.8	524.5	522.2	519.9
62.5°	338.8	224.0	402.7	461.9	509.4	508.3	500.2	479.3	467.7	461.9	457.2
65°	287.8	188.0	286.6	384.1	452.6	454.9	437.5	422.4	409.6	402.7	401.5
67.5°	219.3	153.2	193.8	320.3	398.0	395.7	373.6	366.7	350.4	346.9	340.0
70°	162.5	102.1	134.6	260.0	344.6	338.8	321.5	313.3	298.3	290.1	285.4
72.5°	134.6	82.4	98.6	201.9	290.1	283.2	268.1	258.7	246.0	239.1	234.4
75°	109.1	87.0	75.4	149.7	235.6	230.9	217.0	207.7	197.3	188.0	189.2
77.5°	80.1	81.2	60.3	110.2	186.8	179.9	171.7	160.1	155.5	146.2	146.2
80°	60.3	63.9	45.2	75.4	134.6	134.6	127.6	119.5	111.4	106.8	106.8
82.5°	40.6	40.6	33.6	47.6	91.7	88.2	83.5	81.2	76.6	74.3	74.3
85°	18.5	23.2	20.9	29.0	49.9	52.3	52.3	49.9	48.7	46.4	47.6
87.5°	5.8	10.5	12.7	16.2	25.6	26.7	27.8	27.8	27.8	29.0	29.0
90°	2.7	4.9	7.1	7.6	12.0	17.8	20.7	18.4	13.8	10.4	10.4
92.5°	10.9	29.4	47.9	52.5	73.9	102.3	116.6	102.1	73.3	51.7	49.7
95°	26.2	60.1	94.0	102.4	181.8	287.6	340.6	303.9	230.6	175.6	169.3
97.5°	45.2	75.1	105.0	112.4	244.9	421.4	509.7	486.5	440.2	405.4	393.6
100°	59.9	87.0	114.1	120.9	267.8	463.7	561.7	563.3	566.8	569.3	555.2
102.5°	72.5	97.8	123.0	129.3	278.3	477.1	576.4	605.9	665.0	709.2	697.1
105°	93.6	115.1	136.5	141.8	286.2	478.6	574.8	641.0	773.3	872.6	866.1
107.5°	115.4	135.4	155.4	160.4	287.6	457.2	542.1	634.4	819.0	957.5	959.1
110°	130.2	148.2	166.3	170.7	285.4	438.4	514.9	618.1	824.5	979.3	986.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	144.6	161.8	178.9	183.2	285.5	421.9	490.1	595.8	807.0	965.4	975.9
115°	166.4	182.2	198.1	202.0	288.2	403.0	460.4	562.2	765.7	918.4	932.8
117.5°	187.9	202.3	216.7	220.3	293.5	391.1	439.9	531.8	715.5	853.3	869.3
120°	200.4	214.0	227.5	230.9	297.8	387.2	431.8	515.7	683.6	809.4	825.0
122.5°	212.6	226.3	240.0	243.4	304.1	385.0	425.5	501.1	652.2	765.6	781.0
125°	231.4	243.9	256.4	259.5	312.6	383.4	418.8	483.0	611.4	707.6	721.8
127.5°	246.7	259.3	271.8	275.0	321.0	382.4	413.1	468.2	578.4	661.1	673.0
130°	254.9	268.4	281.9	285.4	327.2	382.9	410.9	460.0	558.1	631.7	642.7
132.5°	263.3	276.8	290.4	293.8	332.2	383.4	408.9	452.9	540.8	606.6	616.5
135°	275.8	288.1	300.5	303.5	337.6	383.0	405.7	442.5	516.1	571.2	579.8
137.5°	288.6	300.8	313.0	316.1	345.8	385.4	405.2	436.3	498.4	545.1	552.0
140°	299.2	310.5	321.7	324.5	350.8	385.7	403.2	430.1	483.8	524.1	530.6
142.5°	307.4	317.8	328.1	330.8	354.9	387.2	403.2	426.9	474.0	509.4	515.0
145°	319.9	329.0	338.1	340.3	360.4	387.2	400.5	419.8	458.4	487.4	491.6
147.5°	332.4	341.2	350.1	352.3	368.4	389.8	400.5	415.7	446.1	468.8	472.4
150°	340.6	348.6	356.6	358.6	372.6	391.2	400.5	413.3	439.0	458.2	461.0
152.5°	349.0	355.1	361.2	362.7	375.3	392.1	400.5	411.5	433.4	449.8	451.9
155°	361.6	366.1	370.5	371.6	381.3	394.1	400.5	409.2	426.6	439.7	441.1
157.5°	370.8	375.2	379.6	380.7	387.2	396.1	400.5	407.3	420.8	431.0	431.9
160°	377.1	380.5	383.8	384.7	390.0	397.0	400.5	406.3	418.0	426.7	427.2
162.5°	383.4	385.9	388.5	389.1	392.9	398.0	400.5	405.4	415.2	422.6	423.1
165°	390.1	392.4	394.7	395.3	397.1	399.4	400.5	404.0	411.0	416.3	416.9
167.5°	396.4	397.4	398.6	398.8	400.3	402.3	403.2	405.5	410.2	413.6	413.9
170°	400.5	401.6	402.7	403.0	403.1	403.1	403.2	405.5	410.2	413.6	413.6
172.5°	402.7	403.0	403.1	403.2	403.2	403.2	403.2	405.1	408.7	411.4	411.2
175°	405.7	405.7	405.7	405.7	404.9	403.8	403.2	404.4	406.7	408.4	408.4
177.5°	405.7	405.7	405.7	405.7	405.1	404.2	403.8	404.6	406.5	407.9	407.6
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1257.9	1254.5	1257.9	1255.6	1256.8	1253.2	1242.8	1239.4	1242.8	1246.3	1246.3
5°	1273.0	1270.7	1273.0	1273.0	1271.9	1269.5	1257.9	1255.6	1257.9	1259.0	1256.8
7.5°	1277.7	1274.2	1277.7	1275.3	1275.3	1273.0	1261.4	1259.0	1260.3	1263.7	1260.3
10°	1277.7	1274.2	1277.7	1276.5	1275.3	1273.0	1261.4	1256.8	1256.8	1260.3	1256.8
12.5°	1271.9	1269.5	1271.9	1269.5	1269.5	1267.2	1255.6	1251.0	1252.1	1253.2	1248.7
15°	1262.6	1259.0	1262.6	1260.3	1261.4	1257.9	1245.2	1240.5	1240.5	1242.8	1234.7
17.5°	1248.7	1244.0	1248.7	1247.5	1246.3	1244.0	1232.4	1227.8	1226.5	1227.8	1222.0
20°	1232.4	1228.9	1232.4	1231.2	1231.2	1226.5	1215.0	1209.2	1209.2	1209.2	1203.4
22.5°	1206.9	1203.4	1206.9	1209.2	1209.2	1208.0	1197.6	1189.5	1187.1	1187.1	1180.2
25°	1177.9	1174.4	1177.9	1177.9	1176.7	1177.9	1174.4	1169.7	1166.2	1162.8	1155.8
27.5°	1150.0	1147.7	1150.0	1147.7	1150.0	1146.5	1145.4	1144.2	1139.6	1136.1	1126.8
30°	1122.1	1119.8	1122.1	1119.8	1117.6	1115.2	1109.4	1107.1	1111.7	1109.4	1094.3
32.5°	1087.3	1085.1	1087.3	1087.3	1085.1	1085.1	1075.7	1072.2	1073.4	1080.4	1066.4
35°	1051.3	1047.9	1051.3	1050.2	1051.3	1047.9	1042.1	1040.9	1036.3	1044.4	1033.9
37.5°	1009.6	1006.1	1009.6	1009.6	1009.6	1011.9	1007.2	1003.8	996.8	1007.2	999.2
40°	966.7	962.0	966.7	965.5	966.7	968.9	966.7	964.3	957.3	965.5	958.5
42.5°	917.9	916.8	917.9	919.1	919.1	923.7	927.2	922.6	920.2	914.4	919.1
45°	865.7	863.4	865.7	868.0	869.2	871.5	881.9	881.9	878.5	869.2	876.1
47.5°	810.0	804.2	810.0	817.0	817.0	820.4	830.9	839.0	833.2	821.6	825.1
50°	750.8	752.0	750.8	755.4	755.4	768.2	776.3	784.5	790.3	776.3	760.1
52.5°	692.8	691.7	692.8	696.2	700.9	706.7	720.6	728.7	738.0	730.0	704.4
55°	634.7	637.1	634.7	635.9	638.3	641.7	662.6	670.8	688.1	677.7	651.0
57.5°	576.8	573.3	576.8	579.1	580.2	583.7	601.1	616.2	626.7	627.8	595.3
60°	509.4	504.8	509.4	519.9	522.2	524.5	540.8	554.7	564.0	567.5	533.8
62.5°	450.2	442.1	450.2	457.2	461.9	467.7	479.3	500.2	508.3	509.4	461.9
65°	387.6	384.1	387.6	401.5	402.7	409.6	422.4	437.5	454.9	452.6	384.1
67.5°	330.8	330.8	330.8	340.0	346.9	350.4	366.7	373.6	395.7	398.0	320.3
70°	278.5	277.4	278.5	285.4	290.1	298.3	313.3	321.5	338.8	344.6	260.0
72.5°	228.6	227.5	228.6	234.4	239.1	246.0	258.7	268.1	283.2	290.1	201.9
75°	184.5	182.2	184.5	189.2	188.0	197.3	207.7	217.0	230.9	235.6	149.7
77.5°	141.6	141.6	141.6	146.2	146.2	155.5	160.1	171.7	179.9	186.8	110.2
80°	105.6	104.4	105.6	106.8	106.8	111.4	119.5	127.6	134.6	134.6	75.4
82.5°	74.3	71.9	74.3	74.3	74.3	76.6	81.2	83.5	88.2	91.7	47.6
85°	46.4	46.4	46.4	47.6	46.4	48.7	49.9	52.3	52.3	49.9	29.0
87.5°	30.2	29.0	30.2	29.0	29.0	27.8	27.8	27.8	26.7	25.6	16.2
90°	10.4	10.4	10.4	10.4	10.4	13.8	18.4	20.7	17.8	12.0	7.6
92.5°	41.5	33.2	41.5	49.7	51.7	73.3	102.1	116.6	102.3	73.9	52.5
95°	144.5	119.5	144.5	169.3	175.6	230.6	303.9	340.6	287.6	181.8	102.4
97.5°	346.1	298.7	346.1	393.6	405.4	440.2	486.5	509.7	421.4	244.9	112.4
100°	498.7	442.1	498.7	555.2	569.3	566.8	563.3	561.7	463.7	267.8	120.9
102.5°	648.7	600.3	648.7	697.1	709.2	665.0	605.9	576.4	477.1	278.3	129.3
105°	840.1	814.1	840.1	866.1	872.6	773.3	641.0	574.8	478.6	286.2	141.8
107.5°	965.4	971.8	965.4	959.1	957.5	819.0	634.4	542.1	457.2	287.6	160.4
110°	1013.2	1040.3	1013.2	986.1	979.3	824.5	618.1	514.9	438.4	285.4	170.7





TEST NUMBER: P934857

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1017.5	1059.1	1017.5	975.9	965.4	807.0	595.8	490.1	421.9	285.5	183.2
115°	990.5	1048.3	990.5	932.8	918.4	765.7	562.2	460.4	403.0	288.2	202.0
117.5°	933.3	997.3	933.3	869.3	853.3	715.5	531.8	439.9	391.1	293.5	220.3
120°	887.2	949.4	887.2	825.0	809.4	683.6	515.7	431.8	387.2	297.8	230.9
122.5°	842.3	903.7	842.3	781.0	765.6	652.2	501.1	425.5	385.0	304.1	243.4
125°	778.3	834.7	778.3	721.8	707.6	611.4	483.0	418.8	383.4	312.6	259.5
127.5°	720.6	768.3	720.6	673.0	661.1	578.4	468.2	413.1	382.4	321.0	275.0
130°	686.7	730.7	686.7	642.7	631.7	558.1	460.0	410.9	382.9	327.2	285.4
132.5°	655.9	695.4	655.9	616.5	606.6	540.8	452.9	408.9	383.4	332.2	293.8
135°	613.8	647.7	613.8	579.8	571.2	516.1	442.5	405.7	383.0	337.6	303.5
137.5°	579.9	607.7	579.9	552.0	545.1	498.4	436.3	405.2	385.4	345.8	316.1
140°	556.7	582.7	556.7	530.6	524.1	483.8	430.1	403.2	385.7	350.8	324.5
142.5°	537.3	559.7	537.3	515.0	509.4	474.0	426.9	403.2	387.2	354.9	330.8
145°	508.5	525.5	508.5	491.6	487.4	458.4	419.8	400.5	387.2	360.4	340.3
147.5°	486.4	500.5	486.4	472.4	468.8	446.1	415.7	400.5	389.8	368.4	352.3
150°	472.4	483.9	472.4	461.0	458.2	439.0	413.3	400.5	391.2	372.6	358.6
152.5°	460.5	469.1	460.5	451.9	449.8	433.4	411.5	400.5	392.1	375.3	362.7
155°	446.8	452.5	446.8	441.1	439.7	426.6	409.2	400.5	394.1	381.3	371.6
157.5°	436.0	439.9	436.0	431.9	431.0	420.8	407.3	400.5	396.1	387.2	380.7
160°	429.5	431.8	429.5	427.2	426.7	418.0	406.3	400.5	397.0	390.0	384.7
162.5°	425.3	427.5	425.3	423.1	422.6	415.2	405.4	400.5	398.0	392.9	389.1
165°	419.2	421.5	419.2	416.9	416.3	411.0	404.0	400.5	399.4	397.1	395.3
167.5°	414.8	415.8	414.8	413.9	413.6	410.2	405.5	403.2	402.3	400.3	398.8
170°	413.6	413.6	413.6	413.6	413.6	410.2	405.5	403.2	403.1	403.1	403.0
172.5°	410.3	409.5	410.3	411.2	411.4	408.7	405.1	403.2	403.2	403.2	403.2
175°	408.4	408.4	408.4	408.4	408.4	406.7	404.4	403.2	403.8	404.9	405.7
177.5°	406.7	405.7	406.7	407.6	407.9	406.5	404.6	403.8	404.2	405.1	405.7
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934857

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1244.0	1237.0	1237.0	1225.4	1220.8	1217.3	1211.5	1194.1	1189.5	1184.8	1191.8
5°	1254.5	1241.7	1232.4	1211.5	1194.1	1187.1	1165.1	1123.3	1095.4	1074.6	1063.0
7.5°	1256.8	1240.5	1223.1	1190.6	1148.8	1130.3	1063.0	986.4	965.5	946.9	935.3
10°	1254.5	1235.9	1211.5	1162.8	1064.1	1031.7	964.3	914.4	901.7	898.2	901.7
12.5°	1246.3	1228.9	1195.3	1114.0	976.0	953.9	914.4	885.4	883.1	888.9	920.2
15°	1232.4	1216.2	1176.7	1049.0	927.2	911.0	883.1	872.7	885.4	926.0	1020.1
17.5°	1218.5	1199.9	1151.2	985.2	890.1	878.5	858.7	879.6	951.6	1006.1	1037.4
20°	1199.9	1177.9	1122.1	938.8	863.4	852.9	843.6	937.7	992.2	1011.9	1029.3
22.5°	1177.9	1154.6	1082.7	906.3	835.5	827.4	833.2	970.2	992.2	1006.1	1021.2
25°	1148.8	1129.1	1036.3	880.8	813.5	804.2	826.2	966.7	979.4	982.9	1013.0
27.5°	1122.1	1096.6	987.6	857.6	786.8	783.3	832.0	951.6	960.9	964.3	996.8
30°	1089.6	1051.3	933.0	833.2	758.9	757.8	833.2	933.0	930.6	940.0	972.5
32.5°	1056.0	984.0	871.5	803.0	732.2	731.1	825.1	905.2	902.8	915.6	940.0
35°	1024.7	931.9	787.9	768.2	698.6	699.7	805.3	872.7	873.8	885.4	900.5
37.5°	992.2	886.6	696.2	730.0	666.1	666.1	778.6	842.5	840.2	843.6	864.5
40°	953.9	815.8	615.1	680.0	635.9	632.5	746.2	810.0	801.9	800.7	829.7
42.5°	913.3	738.0	554.7	613.8	601.1	596.5	706.7	770.5	755.4	758.9	796.1
45°	869.2	717.1	508.3	518.7	565.1	561.7	663.7	725.3	714.8	724.2	762.5
47.5°	825.1	675.4	493.2	430.5	526.8	525.7	616.2	681.2	675.4	684.6	725.3
50°	764.7	629.0	492.0	369.1	483.9	488.5	559.3	638.3	638.3	646.3	689.3
52.5°	687.0	572.1	446.8	334.2	434.0	447.9	509.4	601.1	603.4	611.6	649.9
55°	616.2	512.9	414.3	307.5	374.9	405.0	460.7	562.8	567.5	575.6	610.4
57.5°	551.2	427.0	407.4	276.2	320.3	349.3	417.7	525.7	528.0	535.0	568.6
60°	481.6	308.6	373.6	242.5	272.7	294.8	378.3	481.6	489.7	494.3	523.4
62.5°	402.7	224.0	338.8	219.3	249.5	254.2	345.8	439.8	450.2	453.7	471.1
65°	286.6	188.0	287.8	199.6	225.1	226.3	311.0	396.9	406.1	411.9	424.7
67.5°	193.8	153.2	219.3	181.0	206.6	207.7	277.4	346.9	359.8	364.4	372.5
70°	134.6	102.1	162.5	161.3	185.7	188.0	241.4	301.7	313.3	316.8	321.5
72.5°	98.6	82.4	134.6	145.1	163.6	165.9	204.2	250.7	262.3	265.8	268.1
75°	75.4	87.0	109.1	126.5	139.2	140.4	167.1	204.2	212.4	214.7	215.8
77.5°	60.3	81.2	80.1	102.1	113.7	111.4	131.1	157.8	164.8	164.8	164.8
80°	45.2	63.9	60.3	73.1	83.5	81.2	94.0	112.6	114.9	117.2	116.0
82.5°	33.6	40.6	40.6	46.4	55.7	53.4	62.6	73.1	73.1	73.1	75.4
85°	20.9	23.2	18.5	24.3	31.4	30.2	34.8	39.4	40.6	40.6	38.3
87.5°	12.7	10.5	5.8	9.3	14.0	14.0	16.2	17.4	16.2	16.2	16.2
90°	7.1	4.9	2.7	4.9	7.1	7.6	12.0	17.8	20.7	18.4	13.8
92.5°	47.9	29.4	10.9	29.4	47.9	52.5	73.9	102.3	116.6	102.1	73.3
95°	94.0	60.1	26.2	60.1	94.0	102.4	181.8	287.6	340.6	303.9	230.6
97.5°	105.0	75.1	45.2	75.1	105.0	112.4	244.9	421.4	509.7	486.5	440.2
100°	114.1	87.0	59.9	87.0	114.1	120.9	267.8	463.7	561.7	563.3	566.8
102.5°	123.0	97.8	72.5	97.8	123.0	129.3	278.3	477.1	576.4	605.9	665.0
105°	136.5	115.1	93.6	115.1	136.5	141.8	286.2	478.6	574.8	641.0	773.3
107.5°	155.4	135.4	115.4	135.4	155.4	160.4	287.6	457.2	542.1	634.4	819.0
110°	166.3	148.2	130.2	148.2	166.3	170.7	285.4	438.4	514.9	618.1	824.5



TEST NUMBER: P934857

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	178.9	161.8	144.6	161.8	178.9	183.2	285.5	421.9	490.1	595.8	807.0
115°	198.1	182.2	166.4	182.2	198.1	202.0	288.2	403.0	460.4	562.2	765.7
117.5°	216.7	202.3	187.9	202.3	216.7	220.3	293.5	391.1	439.9	531.8	715.5
120°	227.5	214.0	200.4	214.0	227.5	230.9	297.8	387.2	431.8	515.7	683.6
122.5°	240.0	226.3	212.6	226.3	240.0	243.4	304.1	385.0	425.5	501.1	652.2
125°	256.4	243.9	231.4	243.9	256.4	259.5	312.6	383.4	418.8	483.0	611.4
127.5°	271.8	259.3	246.7	259.3	271.8	275.0	321.0	382.4	413.1	468.2	578.4
130°	281.9	268.4	254.9	268.4	281.9	285.4	327.2	382.9	410.9	460.0	558.1
132.5°	290.4	276.8	263.3	276.8	290.4	293.8	332.2	383.4	408.9	452.9	540.8
135°	300.5	288.1	275.8	288.1	300.5	303.5	337.6	383.0	405.7	442.5	516.1
137.5°	313.0	300.8	288.6	300.8	313.0	316.1	345.8	385.4	405.2	436.3	498.4
140°	321.7	310.5	299.2	310.5	321.7	324.5	350.8	385.7	403.2	430.1	483.8
142.5°	328.1	317.8	307.4	317.8	328.1	330.8	354.9	387.2	403.2	426.9	474.0
145°	338.1	329.0	319.9	329.0	338.1	340.3	360.4	387.2	400.5	419.8	458.4
147.5°	350.1	341.2	332.4	341.2	350.1	352.3	368.4	389.8	400.5	415.7	446.1
150°	356.6	348.6	340.6	348.6	356.6	358.6	372.6	391.2	400.5	413.3	439.0
152.5°	361.2	355.1	349.0	355.1	361.2	362.7	375.3	392.1	400.5	411.5	433.4
155°	370.5	366.1	361.6	366.1	370.5	371.6	381.3	394.1	400.5	409.2	426.6
157.5°	379.6	375.2	370.8	375.2	379.6	380.7	387.2	396.1	400.5	407.3	420.8
160°	383.8	380.5	377.1	380.5	383.8	384.7	390.0	397.0	400.5	406.3	418.0
162.5°	388.5	385.9	383.4	385.9	388.5	389.1	392.9	398.0	400.5	405.4	415.2
165°	394.7	392.4	390.1	392.4	394.7	395.3	397.1	399.4	400.5	404.0	411.0
167.5°	398.6	397.4	396.4	397.4	398.6	398.8	400.3	402.3	403.2	405.5	410.2
170°	402.7	401.6	400.5	401.6	402.7	403.0	403.1	403.1	403.2	405.5	410.2
172.5°	403.1	403.0	402.7	403.0	403.1	403.2	403.2	403.2	403.2	405.1	408.7
175°	405.7	405.7	405.7	405.7	405.7	405.7	404.9	403.8	403.2	404.4	406.7
177.5°	405.7	405.7	405.7	405.7	405.7	405.7	405.1	404.2	403.8	404.6	406.5
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934857

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1183.7	1180.2	1184.8	1172.0	1184.8	1180.2	1183.7	1191.8	1184.8	1189.5	1194.1
5°	1038.6	1032.8	1014.3	999.2	1014.3	1032.8	1038.6	1063.0	1074.6	1095.4	1123.3
7.5°	928.4	923.7	919.1	909.7	919.1	923.7	928.4	935.3	946.9	965.5	986.4
10°	903.9	905.2	912.1	911.0	912.1	905.2	903.9	901.7	898.2	901.7	914.4
12.5°	966.7	977.1	1015.4	1013.0	1015.4	977.1	966.7	920.2	888.9	883.1	885.4
15°	1038.6	1042.1	1050.2	1051.3	1050.2	1042.1	1038.6	1020.1	926.0	885.4	872.7
17.5°	1045.5	1046.8	1052.6	1052.6	1052.6	1046.8	1045.5	1037.4	1006.1	951.6	879.6
20°	1039.7	1042.1	1053.7	1056.0	1053.7	1042.1	1039.7	1029.3	1011.9	992.2	937.7
22.5°	1037.4	1042.1	1051.3	1050.2	1051.3	1042.1	1037.4	1021.2	1006.1	992.2	970.2
25°	1025.9	1025.9	1027.0	1028.1	1027.0	1025.9	1025.9	1013.0	982.9	979.4	966.7
27.5°	1001.4	1003.8	1010.7	1009.6	1010.7	1003.8	1001.4	996.8	964.3	960.9	951.6
30°	979.4	977.1	971.3	966.7	971.3	977.1	979.4	972.5	940.0	930.6	933.0
32.5°	942.2	936.4	930.6	927.2	930.6	936.4	942.2	940.0	915.6	902.8	905.2
35°	898.2	899.4	898.2	894.7	898.2	899.4	898.2	900.5	885.4	873.8	872.7
37.5°	866.9	869.2	868.0	863.4	868.0	869.2	866.9	864.5	843.6	840.2	842.5
40°	834.4	835.5	834.4	830.9	834.4	835.5	834.4	829.7	800.7	801.9	810.0
42.5°	803.0	801.9	798.4	796.1	798.4	801.9	803.0	796.1	758.9	755.4	770.5
45°	767.0	768.2	761.2	757.8	761.2	768.2	767.0	762.5	724.2	714.8	725.3
47.5°	731.1	731.1	725.3	721.8	725.3	731.1	731.1	725.3	684.6	675.4	681.2
50°	692.8	691.7	683.5	682.4	683.5	691.7	692.8	689.3	646.3	638.3	638.3
52.5°	648.7	648.7	649.9	652.1	649.9	648.7	648.7	649.9	611.6	603.4	601.1
55°	610.4	611.6	619.6	622.0	619.6	611.6	610.4	610.4	575.6	567.5	562.8
57.5°	570.9	570.9	576.8	576.8	576.8	570.9	570.9	568.6	535.0	528.0	525.7
60°	525.7	528.0	532.6	531.5	532.6	528.0	525.7	523.4	494.3	489.7	481.6
62.5°	478.1	480.4	481.6	479.3	481.6	480.4	478.1	471.1	453.7	450.2	439.8
65°	428.2	430.5	431.7	429.4	431.7	430.5	428.2	424.7	411.9	406.1	396.9
67.5°	377.1	376.0	374.9	379.4	374.9	376.0	377.1	372.5	364.4	359.8	346.9
70°	324.9	324.9	323.7	326.1	323.7	324.9	324.9	321.5	316.8	313.3	301.7
72.5°	269.2	268.1	272.7	269.2	272.7	268.1	269.2	268.1	265.8	262.3	250.7
75°	214.7	217.0	214.7	218.2	214.7	217.0	214.7	215.8	214.7	212.4	204.2
77.5°	163.6	165.9	163.6	163.6	163.6	165.9	163.6	164.8	164.8	164.8	157.8
80°	116.0	114.9	114.9	113.7	114.9	114.9	116.0	116.0	117.2	114.9	112.6
82.5°	74.3	73.1	73.1	75.4	73.1	73.1	74.3	75.4	73.1	73.1	73.1
85°	40.6	41.8	39.4	39.4	39.4	41.8	40.6	38.3	40.6	40.6	39.4
87.5°	15.1	14.0	14.0	14.0	14.0	14.0	15.1	16.2	16.2	16.2	17.4
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	13.8	18.4	20.7	17.8
92.5°	51.7	49.7	41.5	33.2	41.5	49.7	51.7	73.3	102.1	116.6	102.3
95°	175.6	169.3	144.5	119.5	144.5	169.3	175.6	230.6	303.9	340.6	287.6
97.5°	405.4	393.6	346.1	298.7	346.1	393.6	405.4	440.2	486.5	509.7	421.4
100°	569.3	555.2	498.7	442.1	498.7	555.2	569.3	566.8	563.3	561.7	463.7
102.5°	709.2	697.1	648.7	600.3	648.7	697.1	709.2	665.0	605.9	576.4	477.1
105°	872.6	866.1	840.1	814.1	840.1	866.1	872.6	773.3	641.0	574.8	478.6
107.5°	957.5	959.1	965.4	971.8	965.4	959.1	957.5	819.0	634.4	542.1	457.2
110°	979.3	986.1	1013.2	1040.3	1013.2	986.1	979.3	824.5	618.1	514.9	438.4



TEST NUMBER: P934857

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	965.4	975.9	1017.5	1059.1	1017.5	975.9	965.4	807.0	595.8	490.1	421.9
115°	918.4	932.8	990.5	1048.3	990.5	932.8	918.4	765.7	562.2	460.4	403.0
117.5°	853.3	869.3	933.3	997.3	933.3	869.3	853.3	715.5	531.8	439.9	391.1
120°	809.4	825.0	887.2	949.4	887.2	825.0	809.4	683.6	515.7	431.8	387.2
122.5°	765.6	781.0	842.3	903.7	842.3	781.0	765.6	652.2	501.1	425.5	385.0
125°	707.6	721.8	778.3	834.7	778.3	721.8	707.6	611.4	483.0	418.8	383.4
127.5°	661.1	673.0	720.6	768.3	720.6	673.0	661.1	578.4	468.2	413.1	382.4
130°	631.7	642.7	686.7	730.7	686.7	642.7	631.7	558.1	460.0	410.9	382.9
132.5°	606.6	616.5	655.9	695.4	655.9	616.5	606.6	540.8	452.9	408.9	383.4
135°	571.2	579.8	613.8	647.7	613.8	579.8	571.2	516.1	442.5	405.7	383.0
137.5°	545.1	552.0	579.9	607.7	579.9	552.0	545.1	498.4	436.3	405.2	385.4
140°	524.1	530.6	556.7	582.7	556.7	530.6	524.1	483.8	430.1	403.2	385.7
142.5°	509.4	515.0	537.3	559.7	537.3	515.0	509.4	474.0	426.9	403.2	387.2
145°	487.4	491.6	508.5	525.5	508.5	491.6	487.4	458.4	419.8	400.5	387.2
147.5°	468.8	472.4	486.4	500.5	486.4	472.4	468.8	446.1	415.7	400.5	389.8
150°	458.2	461.0	472.4	483.9	472.4	461.0	458.2	439.0	413.3	400.5	391.2
152.5°	449.8	451.9	460.5	469.1	460.5	451.9	449.8	433.4	411.5	400.5	392.1
155°	439.7	441.1	446.8	452.5	446.8	441.1	439.7	426.6	409.2	400.5	394.1
157.5°	431.0	431.9	436.0	439.9	436.0	431.9	431.0	420.8	407.3	400.5	396.1
160°	426.7	427.2	429.5	431.8	429.5	427.2	426.7	418.0	406.3	400.5	397.0
162.5°	422.6	423.1	425.3	427.5	425.3	423.1	422.6	415.2	405.4	400.5	398.0
165°	416.3	416.9	419.2	421.5	419.2	416.9	416.3	411.0	404.0	400.5	399.4
167.5°	413.6	413.9	414.8	415.8	414.8	413.9	413.6	410.2	405.5	403.2	402.3
170°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	410.2	405.5	403.2	403.1
172.5°	411.4	411.2	410.3	409.5	410.3	411.2	411.4	408.7	405.1	403.2	403.2
175°	408.4	408.4	408.4	408.4	408.4	408.4	408.4	406.7	404.4	403.2	403.8
177.5°	407.9	407.6	406.7	405.7	406.7	407.6	407.9	406.5	404.6	403.8	404.2
180°	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934857

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1211.5	1217.3	1220.8	1225.4	1237.0
5°	1165.1	1187.1	1194.1	1211.5	1232.4
7.5°	1063.0	1130.3	1148.8	1190.6	1223.1
10°	964.3	1031.7	1064.1	1162.8	1211.5
12.5°	914.4	953.9	976.0	1114.0	1195.3
15°	883.1	911.0	927.2	1049.0	1176.7
17.5°	858.7	878.5	890.1	985.2	1151.2
20°	843.6	852.9	863.4	938.8	1122.1
22.5°	833.2	827.4	835.5	906.3	1082.7
25°	826.2	804.2	813.5	880.8	1036.3
27.5°	832.0	783.3	786.8	857.6	987.6
30°	833.2	757.8	758.9	833.2	933.0
32.5°	825.1	731.1	732.2	803.0	871.5
35°	805.3	699.7	698.6	768.2	787.9
37.5°	778.6	666.1	666.1	730.0	696.2
40°	746.2	632.5	635.9	680.0	615.1
42.5°	706.7	596.5	601.1	613.8	554.7
45°	663.7	561.7	565.1	518.7	508.3
47.5°	616.2	525.7	526.8	430.5	493.2
50°	559.3	488.5	483.9	369.1	492.0
52.5°	509.4	447.9	434.0	334.2	446.8
55°	460.7	405.0	374.9	307.5	414.3
57.5°	417.7	349.3	320.3	276.2	407.4
60°	378.3	294.8	272.7	242.5	373.6
62.5°	345.8	254.2	249.5	219.3	338.8
65°	311.0	226.3	225.1	199.6	287.8
67.5°	277.4	207.7	206.6	181.0	219.3
70°	241.4	188.0	185.7	161.3	162.5
72.5°	204.2	165.9	163.6	145.1	134.6
75°	167.1	140.4	139.2	126.5	109.1
77.5°	131.1	111.4	113.7	102.1	80.1
80°	94.0	81.2	83.5	73.1	60.3
82.5°	62.6	53.4	55.7	46.4	40.6
85°	34.8	30.2	31.4	24.3	18.5
87.5°	16.2	14.0	14.0	9.3	5.8
90°	12.0	7.6	7.1	4.9	2.7
92.5°	73.9	52.5	47.9	29.4	10.9
95°	181.8	102.4	94.0	60.1	26.2
97.5°	244.9	112.4	105.0	75.1	45.2
100°	267.8	120.9	114.1	87.0	59.9
102.5°	278.3	129.3	123.0	97.8	72.5
105°	286.2	141.8	136.5	115.1	93.6
107.5°	287.6	160.4	155.4	135.4	115.4
110°	285.4	170.7	166.3	148.2	130.2



TEST NUMBER: P934857

CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	285.5	183.2	178.9	161.8	144.6
115°	288.2	202.0	198.1	182.2	166.4
117.5°	293.5	220.3	216.7	202.3	187.9
120°	297.8	230.9	227.5	214.0	200.4
122.5°	304.1	243.4	240.0	226.3	212.6
125°	312.6	259.5	256.4	243.9	231.4
127.5°	321.0	275.0	271.8	259.3	246.7
130°	327.2	285.4	281.9	268.4	254.9
132.5°	332.2	293.8	290.4	276.8	263.3
135°	337.6	303.5	300.5	288.1	275.8
137.5°	345.8	316.1	313.0	300.8	288.6
140°	350.8	324.5	321.7	310.5	299.2
142.5°	354.9	330.8	328.1	317.8	307.4
145°	360.4	340.3	338.1	329.0	319.9
147.5°	368.4	352.3	350.1	341.2	332.4
150°	372.6	358.6	356.6	348.6	340.6
152.5°	375.3	362.7	361.2	355.1	349.0
155°	381.3	371.6	370.5	366.1	361.6
157.5°	387.2	380.7	379.6	375.2	370.8
160°	390.0	384.7	383.8	380.5	377.1
162.5°	392.9	389.1	388.5	385.9	383.4
165°	397.1	395.3	394.7	392.4	390.1
167.5°	400.3	398.8	398.6	397.4	396.4
170°	403.1	403.0	402.7	401.6	400.5
172.5°	403.2	403.2	403.1	403.0	402.7
175°	404.9	405.7	405.7	405.7	405.7
177.5°	405.1	405.7	405.7	405.7	405.7
180°	405.7	405.7	405.7	405.7	405.7



TEST NUMBER: P934857  
 CATALOG NUMBER: SQ4-FA-075U-100D-93050-1D-UNV-STD-W-4-3000K

**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	13.67	14.58	14.59	15.51	16.71	16.47	17.37	17.38	18.31	19.51
	3H	14.15	14.96	15.08	15.91	17.13	17.81	18.62	18.74	19.56	20.79
	4H	14.35	15.11	15.29	16.06	17.30	18.25	19.02	19.19	19.96	21.20
	6H	14.47	15.17	15.42	16.13	17.38	18.53	19.23	19.48	20.19	21.44
	8H	14.47	15.14	15.43	16.11	17.36	18.60	19.27	19.56	20.24	21.49
	12H	14.44	15.08	15.41	16.05	17.32	18.63	19.28	19.60	20.24	21.51
4H	2H	14.70	15.47	15.65	16.42	17.65	16.89	17.65	17.83	18.60	19.84
	3H	15.73	16.37	16.69	17.35	18.60	18.39	19.03	19.34	20.00	21.25
	4H	16.01	16.59	16.98	17.57	18.84	18.91	19.49	19.88	20.47	21.74
	6H	16.14	16.64	17.12	17.64	18.91	19.27	19.77	20.25	20.77	22.04
	8H	16.15	16.62	17.13	17.60	18.89	19.37	19.84	20.35	20.83	22.12
	12H	16.11	16.54	17.12	17.54	18.84	19.43	19.85	20.43	20.86	22.15
8H	4H	16.46	16.93	17.44	17.92	19.21	19.04	19.51	20.02	20.50	21.78
	6H	16.73	17.11	17.73	18.15	19.43	19.47	19.86	20.48	20.89	22.17
	8H	16.77	17.11	17.78	18.13	19.43	19.62	19.96	20.63	20.98	22.28
	12H	16.75	17.06	17.77	18.07	19.42	19.71	20.01	20.73	21.02	22.37
12H	4H	16.47	16.89	17.47	17.90	19.19	19.00	19.43	20.01	20.43	21.73
	6H	16.79	17.13	17.80	18.15	19.45	19.47	19.81	20.48	20.83	22.13
	8H	16.85	17.16	17.87	18.17	19.52	19.62	19.93	20.64	20.94	22.29