

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: P935259

Luminaire Tested: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

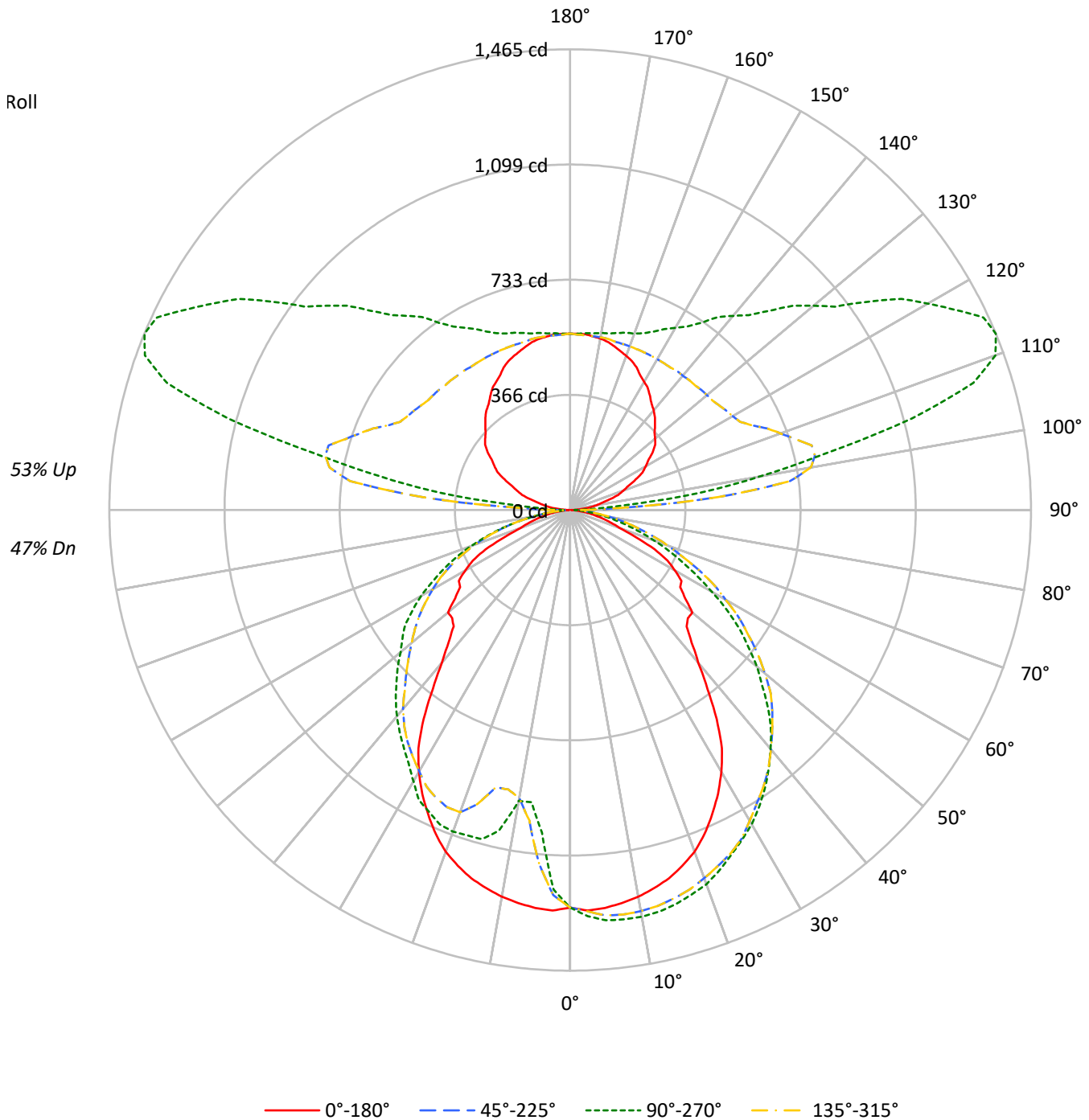
Test Method: LM-79-2019  
Report Number: P935259  
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6916.3 lumens  
Efficiency: N/A  
Efficacy: 119.2 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): 58  
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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CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P935259

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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	50	30	10
RCR																				
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47	47	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40	40	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38	34	34	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	28	28	28
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24	24	24
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24	21	21	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21	19	19	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19	16	16	16
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13	13	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12	12	12

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

	0°	90°	180°	270°
0°	11730	11730	11730	11730
5°	11805	11841	11805	9310
10°	11713	11663	11713	8339
15°	11571	11410	11571	9528
20°	11316	11112	11316	9548
25°	10809	10675	10809	9346
30°	10157	10313	10157	8902
35°	9040	9854	9040	8414
40°	7521	9314	7521	8045
45°	6706	8683	6706	7621
50°	7109	7929	7109	7195
55°	6670	7117	6670	6948
60°	6850	6044	6850	6364
65°	6181	4996	6181	5585
70°	4252	3982	4252	4682
75°	3686	2943	3686	3524
80°	2911	1945	2911	2119
85°	1582	1030	1582	875

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10298 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	1.6
10°-20°	324.0	4.7
20°-30°	500.8	7.2
30°-40°	597.9	8.6
40°-50°	601.4	8.7
50°-60°	523.3	7.6
60°-70°	371.0	5.4
70°-80°	196.3	2.8
80°-90°	51.0	0.7
90°-100°	273.4	4.0
100°-110°	718.9	10.4
110°-120°	745.4	10.8
120°-130°	597.9	8.6
130°-140°	469.2	6.8
140°-150°	360.1	5.2
150°-160°	259.3	3.7
160°-170°	158.7	2.3
170°-180°	53.6	0.8
0°-30°	938.9	13.6
0°-40°	1536.8	22.2
0°-60°	2661.4	38.5
0°-90°	3279.7	47.4
90°-120°	1737.8	25.1
90°-150°	3165.0	45.8
90°-180°	3637.0	52.6
0°-180°	6916.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1264	1264	1264	1264	1264	
5°	1270	1310	1270	1030	1270	120
15°	1213	1298	1213	1084	1213	341
25°	1068	1210	1068	1060	1068	490
35°	812	1080	812	922	812	502
45°	524	890	524	781	524	420
55°	427	657	427	641	427	392
65°	297	396	297	442	297	283
75°	112	188	112	225	112	118
85°	19	48	19	41	19	26
90°	4	14	4	14	4	4
95°	36	165	36	165	36	40
105°	130	1126	130	1126	130	137
115°	230	1450	230	1450	230	227
125°	320	1154	320	1154	320	284
135°	381	896	381	896	381	295
145°	442	727	442	727	442	277
155°	500	626	500	626	500	230
165°	540	583	540	583	540	152
175°	561	565	561	565	561	53
180°	561	561	561	561	561	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1274.8	1274.8	1282.1	1284.4	1284.4	1280.8	1277.3	1280.8	1291.6	1295.2	1294.0
5°	1270.1	1279.6	1292.8	1295.2	1297.5	1296.4	1294.0	1296.4	1308.3	1310.8	1311.9
7.5°	1260.5	1278.4	1295.2	1298.8	1302.3	1298.8	1297.5	1300.0	1311.9	1314.3	1314.3
10°	1248.6	1273.7	1292.8	1295.2	1298.8	1295.2	1295.2	1300.0	1311.9	1314.3	1315.6
12.5°	1231.8	1266.5	1284.4	1286.9	1291.6	1290.4	1289.2	1294.0	1306.0	1308.3	1308.3
15°	1212.6	1253.4	1270.1	1272.5	1280.8	1278.4	1278.4	1283.2	1296.4	1300.0	1298.8
17.5°	1186.4	1236.6	1255.7	1259.4	1265.3	1264.1	1265.3	1270.1	1282.1	1284.4	1285.6
20°	1156.4	1213.9	1236.6	1240.2	1246.1	1246.1	1246.1	1252.1	1264.1	1268.9	1268.9
22.5°	1115.8	1189.9	1213.9	1216.3	1223.4	1223.4	1225.9	1234.2	1245.0	1246.1	1246.1
25°	1068.0	1163.7	1184.0	1191.2	1198.3	1201.9	1205.5	1210.3	1213.9	1212.6	1213.9
27.5°	1017.8	1130.2	1156.4	1161.2	1170.8	1174.4	1179.2	1180.4	1181.6	1185.1	1182.8
30°	961.6	1083.5	1122.9	1127.7	1143.3	1145.7	1141.0	1143.3	1149.3	1151.7	1154.1
32.5°	898.1	1014.1	1088.3	1099.0	1113.4	1106.2	1105.0	1108.6	1118.2	1118.2	1120.6
35°	812.0	960.4	1056.1	1065.6	1076.3	1068.0	1072.7	1074.0	1079.9	1083.5	1082.3
37.5°	717.5	913.7	1022.6	1029.7	1038.0	1027.3	1034.5	1038.0	1042.8	1040.5	1040.5
40°	633.9	840.7	983.1	987.8	995.0	986.6	993.8	996.2	998.6	996.2	995.0
42.5°	571.7	760.6	941.2	947.2	942.4	948.3	950.8	955.6	952.0	947.2	947.2
45°	523.8	739.1	895.7	902.9	895.7	905.3	908.9	908.9	898.1	895.7	894.6
47.5°	508.2	696.1	850.3	850.3	846.7	858.6	864.7	856.3	845.5	842.0	842.0
50°	507.1	648.2	788.1	783.3	800.1	814.5	808.5	800.1	791.7	778.5	778.5
52.5°	460.5	589.6	708.0	725.9	752.3	760.6	751.0	742.7	728.3	722.3	717.5
55°	427.0	528.6	635.1	670.9	698.4	709.2	691.3	682.9	661.3	657.8	655.3
57.5°	419.8	440.1	568.1	613.5	647.0	645.8	635.1	619.5	601.6	597.9	596.8
60°	385.1	318.1	496.3	550.2	584.8	581.2	571.7	557.3	540.6	538.2	535.8
62.5°	349.2	230.8	415.0	476.0	525.0	523.8	515.5	493.9	482.0	476.0	471.2
65°	296.6	193.7	295.4	395.8	466.4	468.8	450.9	435.3	422.2	415.0	413.7
67.5°	226.0	157.9	199.7	330.1	410.2	407.8	385.1	377.9	361.2	357.5	350.4
70°	167.5	105.3	138.8	267.9	355.2	349.2	331.3	322.9	307.4	299.0	294.2
72.5°	138.8	84.9	101.6	208.1	299.0	291.8	276.3	266.7	253.5	246.4	241.6
75°	112.4	89.7	77.8	154.2	242.8	238.0	223.7	214.1	203.3	193.7	195.0
77.5°	82.6	83.7	62.2	113.6	192.5	185.4	177.0	165.0	160.2	150.7	150.7
80°	62.2	65.8	46.6	77.8	138.8	138.8	131.5	123.2	114.8	110.1	110.1
82.5°	41.8	41.8	34.7	49.1	94.5	90.9	86.1	83.7	78.9	76.6	76.6
85°	19.1	23.9	21.5	29.9	51.4	53.9	53.9	51.4	50.2	47.8	49.1
87.5°	6.0	10.8	13.1	16.7	26.3	27.5	28.7	28.7	28.7	29.9	29.9
90°	3.8	6.8	9.8	10.5	16.6	24.6	28.6	25.4	19.1	14.3	14.3
92.5°	15.0	40.6	66.3	72.7	102.2	141.5	161.1	141.2	101.4	71.5	68.7
95°	36.1	83.0	129.9	141.6	251.4	397.7	471.0	420.3	318.9	242.9	234.3
97.5°	62.5	103.8	145.2	155.5	338.6	582.7	704.8	672.7	608.6	560.6	544.2
100°	82.8	120.3	157.8	167.2	370.4	641.3	776.7	779.1	783.7	787.2	767.7
102.5°	100.1	135.1	170.1	178.9	385.0	659.7	797.1	837.9	919.6	980.7	964.0
105°	129.5	159.1	188.7	196.1	395.7	661.8	794.8	886.3	1069.4	1206.7	1197.7
107.5°	159.7	187.3	214.9	221.8	397.7	632.3	749.6	877.3	1132.6	1324.2	1326.3
110°	179.9	204.9	229.8	236.1	394.7	606.2	711.9	854.7	1140.1	1354.2	1363.6



TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	200.0	223.7	247.4	253.4	394.8	583.4	677.7	823.8	1115.9	1335.0	1349.4
115°	230.0	251.9	273.8	279.3	398.5	557.3	636.7	777.4	1058.9	1269.9	1289.9
117.5°	259.8	279.7	299.6	304.6	405.9	540.9	608.4	735.4	989.4	1180.0	1202.1
120°	277.1	295.8	314.5	319.3	411.8	535.4	597.1	713.2	945.3	1119.3	1140.9
122.5°	294.1	313.0	331.9	336.6	420.5	532.5	588.4	692.9	901.9	1058.7	1079.9
125°	320.1	337.3	354.5	358.8	432.2	530.1	579.0	667.8	845.3	978.5	998.0
127.5°	341.1	358.4	375.9	380.3	443.9	528.7	571.2	647.4	799.8	914.1	930.6
130°	352.4	371.1	389.9	394.6	452.4	529.6	568.2	636.1	771.7	873.5	888.7
132.5°	364.1	382.8	401.5	406.2	459.3	530.1	565.5	626.2	747.7	838.8	852.5
135°	381.4	398.5	415.6	419.8	466.9	529.6	561.0	611.9	713.5	789.8	801.6
137.5°	399.1	416.0	432.8	437.1	478.1	532.9	560.2	603.2	689.2	753.7	763.3
140°	413.7	429.3	444.9	448.8	485.1	533.4	557.6	594.7	669.0	724.8	733.7
142.5°	425.1	439.5	453.8	457.5	490.9	535.3	557.6	590.2	655.4	704.4	712.2
145°	442.4	454.9	467.4	470.6	498.4	535.4	553.9	580.6	633.9	673.9	679.8
147.5°	459.7	472.0	484.1	487.2	509.4	539.0	553.9	574.9	616.9	648.4	653.3
150°	471.0	482.0	493.0	495.8	515.2	541.0	553.9	571.6	607.0	633.6	637.5
152.5°	482.6	491.0	499.4	501.5	518.9	542.2	553.9	569.0	599.2	621.9	624.9
155°	500.0	506.2	512.4	514.0	527.3	545.0	553.9	565.9	590.0	608.0	610.0
157.5°	512.8	518.8	524.8	526.4	535.5	547.7	553.9	563.2	581.9	596.0	597.3
160°	521.5	526.2	530.8	532.0	539.3	549.0	553.9	561.9	577.9	590.0	590.8
162.5°	530.1	533.6	537.1	538.0	543.3	550.3	553.9	560.7	574.1	584.3	585.0
165°	539.5	542.6	545.8	546.6	549.1	552.2	553.9	558.8	568.4	575.7	576.5
167.5°	548.2	549.7	551.2	551.6	553.6	556.2	557.6	560.7	567.1	571.9	572.2
170°	553.9	555.3	556.9	557.2	557.3	557.5	557.6	560.7	567.1	571.9	571.9
172.5°	556.9	557.2	557.5	557.6	557.6	557.6	557.6	560.1	565.1	568.9	568.6
175°	561.0	561.0	561.0	561.0	559.8	558.3	557.6	559.2	562.4	564.7	564.7
177.5°	561.0	561.0	561.0	561.0	560.1	558.9	558.3	559.6	562.1	564.0	563.6
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1296.4	1292.8	1296.4	1294.0	1295.2	1291.6	1280.8	1277.3	1280.8	1284.4	1284.4
5°	1311.9	1309.6	1311.9	1311.9	1310.8	1308.3	1296.4	1294.0	1296.4	1297.5	1295.2
7.5°	1316.7	1313.1	1316.7	1314.3	1314.3	1311.9	1300.0	1297.5	1298.8	1302.3	1298.8
10°	1316.7	1313.1	1316.7	1315.6	1314.3	1311.9	1300.0	1295.2	1295.2	1298.8	1295.2
12.5°	1310.8	1308.3	1310.8	1308.3	1308.3	1306.0	1294.0	1289.2	1290.4	1291.6	1286.9
15°	1301.2	1297.5	1301.2	1298.8	1300.0	1296.4	1283.2	1278.4	1278.4	1280.8	1272.5
17.5°	1286.9	1282.1	1286.9	1285.6	1284.4	1282.1	1270.1	1265.3	1264.1	1265.3	1259.4
20°	1270.1	1266.5	1270.1	1268.9	1268.9	1264.1	1252.1	1246.1	1246.1	1246.1	1240.2
22.5°	1243.8	1240.2	1243.8	1246.1	1246.1	1245.0	1234.2	1225.9	1223.4	1223.4	1216.3
25°	1213.9	1210.3	1213.9	1213.9	1212.6	1213.9	1210.3	1205.5	1201.9	1198.3	1191.2
27.5°	1185.1	1182.8	1185.1	1182.8	1185.1	1181.6	1180.4	1179.2	1174.4	1170.8	1161.2
30°	1156.4	1154.1	1156.4	1154.1	1151.7	1149.3	1143.3	1141.0	1145.7	1143.3	1127.7
32.5°	1120.6	1118.2	1120.6	1120.6	1118.2	1118.2	1108.6	1105.0	1106.2	1113.4	1099.0
35°	1083.5	1079.9	1083.5	1082.3	1083.5	1079.9	1074.0	1072.7	1068.0	1076.3	1065.6
37.5°	1040.5	1036.9	1040.5	1040.5	1040.5	1042.8	1038.0	1034.5	1027.3	1038.0	1029.7
40°	996.2	991.4	996.2	995.0	996.2	998.6	996.2	993.8	986.6	995.0	987.8
42.5°	946.0	944.8	946.0	947.2	947.2	952.0	955.6	950.8	948.3	942.4	947.2
45°	892.1	889.8	892.1	894.6	895.7	898.1	908.9	908.9	905.3	895.7	902.9
47.5°	834.7	828.8	834.7	842.0	842.0	845.5	856.3	864.7	858.6	846.7	850.3
50°	773.7	775.0	773.7	778.5	778.5	791.7	800.1	808.5	814.5	800.1	783.3
52.5°	714.0	712.8	714.0	717.5	722.3	728.3	742.7	751.0	760.6	752.3	725.9
55°	654.2	656.6	654.2	655.3	657.8	661.3	682.9	691.3	709.2	698.4	670.9
57.5°	594.4	590.8	594.4	596.8	597.9	601.6	619.5	635.1	645.8	647.0	613.5
60°	525.0	520.2	525.0	535.8	538.2	540.6	557.3	571.7	581.2	584.8	550.2
62.5°	464.0	455.7	464.0	471.2	476.0	482.0	493.9	515.5	523.8	525.0	476.0
65°	399.4	395.8	399.4	413.7	415.0	422.2	435.3	450.9	468.8	466.4	395.8
67.5°	340.9	340.9	340.9	350.4	357.5	361.2	377.9	385.1	407.8	410.2	330.1
70°	287.0	285.8	287.0	294.2	299.0	307.4	322.9	331.3	349.2	355.2	267.9
72.5°	235.6	234.4	235.6	241.6	246.4	253.5	266.7	276.3	291.8	299.0	208.1
75°	190.2	187.7	190.2	195.0	193.7	203.3	214.1	223.7	238.0	242.8	154.2
77.5°	145.9	145.9	145.9	150.7	150.7	160.2	165.0	177.0	185.4	192.5	113.6
80°	108.8	107.6	108.8	110.1	110.1	114.8	123.2	131.5	138.8	138.8	77.8
82.5°	76.6	74.1	76.6	76.6	76.6	78.9	83.7	86.1	90.9	94.5	49.1
85°	47.8	47.8	47.8	49.1	47.8	50.2	51.4	53.9	53.9	51.4	29.9
87.5°	31.1	29.9	31.1	29.9	29.9	28.7	28.7	28.7	27.5	26.3	16.7
90°	14.3	14.3	14.3	14.3	14.3	19.1	25.4	28.6	24.6	16.6	10.5
92.5°	57.3	45.9	57.3	68.7	71.5	101.4	141.2	161.1	141.5	102.2	72.7
95°	199.8	165.3	199.8	234.3	242.9	318.9	420.3	471.0	397.7	251.4	141.6
97.5°	478.6	413.0	478.6	544.2	560.6	608.6	672.7	704.8	582.7	338.6	155.5
100°	689.6	611.4	689.6	767.7	787.2	783.7	779.1	776.7	641.3	370.4	167.2
102.5°	897.1	830.2	897.1	964.0	980.7	919.6	837.9	797.1	659.7	385.0	178.9
105°	1161.7	1125.7	1161.7	1197.7	1206.7	1069.4	886.3	794.8	661.8	395.7	196.1
107.5°	1335.0	1343.7	1335.0	1326.3	1324.2	1132.6	877.3	749.6	632.3	397.7	221.8
110°	1401.1	1438.6	1401.1	1363.6	1354.2	1140.1	854.7	711.9	606.2	394.7	236.1





TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1407.0	1464.6	1407.0	1349.4	1335.0	1115.9	823.8	677.7	583.4	394.8	253.4
115°	1369.7	1449.5	1369.7	1289.9	1269.9	1058.9	777.4	636.7	557.3	398.5	279.3
117.5°	1290.6	1379.1	1290.6	1202.1	1180.0	989.4	735.4	608.4	540.9	405.9	304.6
120°	1226.9	1312.8	1226.9	1140.9	1119.3	945.3	713.2	597.1	535.4	411.8	319.3
122.5°	1164.8	1249.6	1164.8	1079.9	1058.7	901.9	692.9	588.4	532.5	420.5	336.6
125°	1076.1	1154.4	1076.1	998.0	978.5	845.3	667.8	579.0	530.1	432.2	358.8
127.5°	996.6	1062.5	996.6	930.6	914.1	799.8	647.4	571.2	528.7	443.9	380.3
130°	949.6	1010.5	949.6	888.7	873.5	771.7	636.1	568.2	529.6	452.4	394.6
132.5°	907.0	961.6	907.0	852.5	838.8	747.7	626.2	565.5	530.1	459.3	406.2
135°	848.6	895.7	848.6	801.6	789.8	713.5	611.9	561.0	529.6	466.9	419.8
137.5°	801.9	840.4	801.9	763.3	753.7	689.2	603.2	560.2	532.9	478.1	437.1
140°	769.7	805.7	769.7	733.7	724.8	669.0	594.7	557.6	533.4	485.1	448.8
142.5°	743.1	774.1	743.1	712.2	704.4	655.4	590.2	557.6	535.3	490.9	457.5
145°	703.2	726.7	703.2	679.8	673.9	633.9	580.6	553.9	535.4	498.4	470.6
147.5°	672.6	692.0	672.6	653.3	648.4	616.9	574.9	553.9	539.0	509.4	487.2
150°	653.3	669.0	653.3	637.5	633.6	607.0	571.6	553.9	541.0	515.2	495.8
152.5°	636.8	648.7	636.8	624.9	621.9	599.2	569.0	553.9	542.2	518.9	501.5
155°	617.9	625.7	617.9	610.0	608.0	590.0	565.9	553.9	545.0	527.3	514.0
157.5°	602.9	608.4	602.9	597.3	596.0	581.9	563.2	553.9	547.7	535.5	526.4
160°	594.0	597.1	594.0	590.8	590.0	577.9	561.9	553.9	549.0	539.3	532.0
162.5°	588.1	591.1	588.1	585.0	584.3	574.1	560.7	553.9	550.3	543.3	538.0
165°	579.7	582.8	579.7	576.5	575.7	568.4	558.8	553.9	552.2	549.1	546.6
167.5°	573.5	574.9	573.5	572.2	571.9	567.1	560.7	557.6	556.2	553.6	551.6
170°	571.9	571.9	571.9	571.9	571.9	567.1	560.7	557.6	557.5	557.3	557.2
172.5°	567.4	566.3	567.4	568.6	568.9	565.1	560.1	557.6	557.6	557.6	557.6
175°	564.7	564.7	564.7	564.7	564.7	562.4	559.2	557.6	558.3	559.8	561.0
177.5°	562.4	561.0	562.4	563.6	564.0	562.1	559.6	558.3	558.9	560.1	561.0
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1282.1	1274.8	1274.8	1262.9	1258.1	1254.6	1248.6	1230.7	1225.9	1221.1	1228.2
5°	1292.8	1279.6	1270.1	1248.6	1230.7	1223.4	1200.7	1157.7	1128.9	1107.5	1095.5
7.5°	1295.2	1278.4	1260.5	1227.0	1184.0	1164.9	1095.5	1016.6	995.0	975.9	963.9
10°	1292.8	1273.7	1248.6	1198.3	1096.7	1063.2	993.8	942.4	929.2	925.6	929.2
12.5°	1284.4	1266.5	1231.8	1148.1	1005.8	983.1	942.4	912.5	910.1	916.1	948.3
15°	1270.1	1253.4	1212.6	1081.1	955.6	938.8	910.1	899.4	912.5	954.3	1051.3
17.5°	1255.7	1236.6	1186.4	1015.3	917.3	905.3	885.0	906.5	980.7	1036.9	1069.2
20°	1236.6	1213.9	1156.4	967.5	889.8	879.0	869.4	966.3	1022.6	1042.8	1060.8
22.5°	1213.9	1189.9	1115.8	934.0	861.1	852.7	858.6	999.8	1022.6	1036.9	1052.4
25°	1184.0	1163.7	1068.0	907.7	838.4	828.8	851.5	996.2	1009.3	1013.0	1044.0
27.5°	1156.4	1130.2	1017.8	883.8	810.8	807.2	857.5	980.7	990.2	993.8	1027.3
30°	1122.9	1083.5	961.6	858.6	782.1	781.0	858.6	961.6	959.1	968.7	1002.2
32.5°	1088.3	1014.1	898.1	827.6	754.6	753.5	850.3	932.9	930.4	943.6	968.7
35°	1056.1	960.4	812.0	791.7	720.0	721.1	829.9	899.4	900.5	912.5	928.1
37.5°	1022.6	913.7	717.5	752.3	686.5	686.5	802.4	868.2	865.9	869.4	890.9
40°	983.1	840.7	633.9	700.8	655.3	651.8	769.0	834.7	826.4	825.2	855.1
42.5°	941.2	760.6	571.7	632.6	619.5	614.7	728.3	794.1	778.5	782.1	820.4
45°	895.7	739.1	523.8	534.6	582.4	578.9	684.0	747.5	736.7	746.3	785.8
47.5°	850.3	696.1	508.2	443.7	542.9	541.7	635.1	702.0	696.1	705.6	747.5
50°	788.1	648.2	507.1	380.3	498.7	503.5	576.4	657.8	657.8	666.1	710.4
52.5°	708.0	589.6	460.5	344.4	447.2	461.6	525.0	619.5	621.8	630.3	669.7
55°	635.1	528.6	427.0	316.9	386.3	417.4	474.8	580.0	584.8	593.2	629.1
57.5°	568.1	440.1	419.8	284.7	330.1	360.0	430.5	541.7	544.2	551.3	586.0
60°	496.3	318.1	385.1	249.9	281.1	303.8	389.9	496.3	504.7	509.4	539.4
62.5°	415.0	230.8	349.2	226.0	257.2	262.0	356.4	453.2	464.0	467.6	485.5
65°	295.4	193.7	296.6	205.7	232.0	233.2	320.5	409.0	418.5	424.5	437.7
67.5°	199.7	157.9	226.0	186.6	212.9	214.1	285.8	357.5	370.8	375.6	383.9
70°	138.8	105.3	167.5	166.3	191.4	193.7	248.7	310.9	322.9	326.5	331.3
72.5°	101.6	84.9	138.8	149.5	168.6	171.0	210.4	258.3	270.3	273.9	276.3
75°	77.8	89.7	112.4	130.3	143.5	144.7	172.3	210.4	218.9	221.2	222.4
77.5°	62.2	83.7	82.6	105.3	117.2	114.8	135.1	162.7	169.8	169.8	169.8
80°	46.6	65.8	62.2	75.3	86.1	83.7	96.9	116.0	118.4	120.7	119.6
82.5°	34.7	41.8	41.8	47.8	57.4	55.0	64.5	75.3	75.3	75.3	77.8
85°	21.5	23.9	19.1	25.1	32.3	31.1	35.8	40.6	41.8	41.8	39.5
87.5°	13.1	10.8	6.0	9.6	14.4	14.4	16.7	17.9	16.7	16.7	16.7
90°	9.8	6.8	3.8	6.8	9.8	10.5	16.6	24.6	28.6	25.4	19.1
92.5°	66.3	40.6	15.0	40.6	66.3	72.7	102.2	141.5	161.1	141.2	101.4
95°	129.9	83.0	36.1	83.0	129.9	141.6	251.4	397.7	471.0	420.3	318.9
97.5°	145.2	103.8	62.5	103.8	145.2	155.5	338.6	582.7	704.8	672.7	608.6
100°	157.8	120.3	82.8	120.3	157.8	167.2	370.4	641.3	776.7	779.1	783.7
102.5°	170.1	135.1	100.1	135.1	170.1	178.9	385.0	659.7	797.1	837.9	919.6
105°	188.7	159.1	129.5	159.1	188.7	196.1	395.7	661.8	794.8	886.3	1069.4
107.5°	214.9	187.3	159.7	187.3	214.9	221.8	397.7	632.3	749.6	877.3	1132.6
110°	229.8	204.9	179.9	204.9	229.8	236.1	394.7	606.2	711.9	854.7	1140.1



TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	247.4	223.7	200.0	223.7	247.4	253.4	394.8	583.4	677.7	823.8	1115.9
115°	273.8	251.9	230.0	251.9	273.8	279.3	398.5	557.3	636.7	777.4	1058.9
117.5°	299.6	279.7	259.8	279.7	299.6	304.6	405.9	540.9	608.4	735.4	989.4
120°	314.5	295.8	277.1	295.8	314.5	319.3	411.8	535.4	597.1	713.2	945.3
122.5°	331.9	313.0	294.1	313.0	331.9	336.6	420.5	532.5	588.4	692.9	901.9
125°	354.5	337.3	320.1	337.3	354.5	358.8	432.2	530.1	579.0	667.8	845.3
127.5°	375.9	358.4	341.1	358.4	375.9	380.3	443.9	528.7	571.2	647.4	799.8
130°	389.9	371.1	352.4	371.1	389.9	394.6	452.4	529.6	568.2	636.1	771.7
132.5°	401.5	382.8	364.1	382.8	401.5	406.2	459.3	530.1	565.5	626.2	747.7
135°	415.6	398.5	381.4	398.5	415.6	419.8	466.9	529.6	561.0	611.9	713.5
137.5°	432.8	416.0	399.1	416.0	432.8	437.1	478.1	532.9	560.2	603.2	689.2
140°	444.9	429.3	413.7	429.3	444.9	448.8	485.1	533.4	557.6	594.7	669.0
142.5°	453.8	439.5	425.1	439.5	453.8	457.5	490.9	535.3	557.6	590.2	655.4
145°	467.4	454.9	442.4	454.9	467.4	470.6	498.4	535.4	553.9	580.6	633.9
147.5°	484.1	472.0	459.7	472.0	484.1	487.2	509.4	539.0	553.9	574.9	616.9
150°	493.0	482.0	471.0	482.0	493.0	495.8	515.2	541.0	553.9	571.6	607.0
152.5°	499.4	491.0	482.6	491.0	499.4	501.5	518.9	542.2	553.9	569.0	599.2
155°	512.4	506.2	500.0	506.2	512.4	514.0	527.3	545.0	553.9	565.9	590.0
157.5°	524.8	518.8	512.8	518.8	524.8	526.4	535.5	547.7	553.9	563.2	581.9
160°	530.8	526.2	521.5	526.2	530.8	532.0	539.3	549.0	553.9	561.9	577.9
162.5°	537.1	533.6	530.1	533.6	537.1	538.0	543.3	550.3	553.9	560.7	574.1
165°	545.8	542.6	539.5	542.6	545.8	546.6	549.1	552.2	553.9	558.8	568.4
167.5°	551.2	549.7	548.2	549.7	551.2	551.6	553.6	556.2	557.6	560.7	567.1
170°	556.9	555.3	553.9	555.3	556.9	557.2	557.3	557.5	557.6	560.7	567.1
172.5°	557.5	557.2	556.9	557.2	557.5	557.6	557.6	557.6	557.6	560.1	565.1
175°	561.0	561.0	561.0	561.0	561.0	561.0	559.8	558.3	557.6	559.2	562.4
177.5°	561.0	561.0	561.0	561.0	561.0	561.0	560.1	558.9	558.3	559.6	562.1
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1219.9	1216.3	1221.1	1207.8	1221.1	1216.3	1219.9	1228.2	1221.1	1225.9	1230.7
5°	1070.4	1064.4	1045.3	1029.7	1045.3	1064.4	1070.4	1095.5	1107.5	1128.9	1157.7
7.5°	956.8	952.0	947.2	937.6	947.2	952.0	956.8	963.9	975.9	995.0	1016.6
10°	931.6	932.9	940.0	938.8	940.0	932.9	931.6	929.2	925.6	929.2	942.4
12.5°	996.2	1007.0	1046.5	1044.0	1046.5	1007.0	996.2	948.3	916.1	910.1	912.5
15°	1070.4	1074.0	1082.3	1083.5	1082.3	1074.0	1070.4	1051.3	954.3	912.5	899.4
17.5°	1077.5	1078.8	1084.7	1084.7	1084.7	1078.8	1077.5	1069.2	1036.9	980.7	906.5
20°	1071.5	1074.0	1085.9	1088.3	1085.9	1074.0	1071.5	1060.8	1042.8	1022.6	966.3
22.5°	1069.2	1074.0	1083.5	1082.3	1083.5	1074.0	1069.2	1052.4	1036.9	1022.6	999.8
25°	1057.2	1057.2	1058.4	1059.6	1058.4	1057.2	1057.2	1044.0	1013.0	1009.3	996.2
27.5°	1032.1	1034.5	1041.7	1040.5	1041.7	1034.5	1032.1	1027.3	993.8	990.2	980.7
30°	1009.3	1007.0	1001.0	996.2	1001.0	1007.0	1009.3	1002.2	968.7	959.1	961.6
32.5°	971.1	965.1	959.1	955.6	959.1	965.1	971.1	968.7	943.6	930.4	932.9
35°	925.6	926.9	925.6	922.1	925.6	926.9	925.6	928.1	912.5	900.5	899.4
37.5°	893.4	895.7	894.6	889.8	894.6	895.7	893.4	890.9	869.4	865.9	868.2
40°	859.9	861.1	859.9	856.3	859.9	861.1	859.9	855.1	825.2	826.4	834.7
42.5°	827.6	826.4	822.8	820.4	822.8	826.4	827.6	820.4	782.1	778.5	794.1
45°	790.5	791.7	784.5	781.0	784.5	791.7	790.5	785.8	746.3	736.7	747.5
47.5°	753.5	753.5	747.5	743.9	747.5	753.5	753.5	747.5	705.6	696.1	702.0
50°	714.0	712.8	704.4	703.2	704.4	712.8	714.0	710.4	666.1	657.8	657.8
52.5°	668.6	668.6	669.7	672.1	669.7	668.6	668.6	669.7	630.3	621.8	619.5
55°	629.1	630.3	638.6	641.0	638.6	630.3	629.1	629.1	593.2	584.8	580.0
57.5°	588.4	588.4	594.4	594.4	594.4	588.4	588.4	586.0	551.3	544.2	541.7
60°	541.7	544.2	548.9	547.7	548.9	544.2	541.7	539.4	509.4	504.7	496.3
62.5°	492.7	495.1	496.3	493.9	496.3	495.1	492.7	485.5	467.6	464.0	453.2
65°	441.3	443.7	444.9	442.5	444.9	443.7	441.3	437.7	424.5	418.5	409.0
67.5°	388.7	387.5	386.3	391.0	386.3	387.5	388.7	383.9	375.6	370.8	357.5
70°	334.8	334.8	333.6	336.1	333.6	334.8	334.8	331.3	326.5	322.9	310.9
72.5°	277.4	276.3	281.1	277.4	281.1	276.3	277.4	276.3	273.9	270.3	258.3
75°	221.2	223.7	221.2	224.8	221.2	223.7	221.2	222.4	221.2	218.9	210.4
77.5°	168.6	171.0	168.6	168.6	168.6	171.0	168.6	169.8	169.8	169.8	162.7
80°	119.6	118.4	118.4	117.2	118.4	118.4	119.6	119.6	120.7	118.4	116.0
82.5°	76.6	75.3	75.3	77.8	75.3	75.3	76.6	77.8	75.3	75.3	75.3
85°	41.8	43.1	40.6	40.6	40.6	43.1	41.8	39.5	41.8	41.8	40.6
87.5°	15.6	14.4	14.4	14.4	14.4	14.4	15.6	16.7	16.7	16.7	17.9
90°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	19.1	25.4	28.6	24.6
92.5°	71.5	68.7	57.3	45.9	57.3	68.7	71.5	101.4	141.2	161.1	141.5
95°	242.9	234.3	199.8	165.3	199.8	234.3	242.9	318.9	420.3	471.0	397.7
97.5°	560.6	544.2	478.6	413.0	478.6	544.2	560.6	608.6	672.7	704.8	582.7
100°	787.2	767.7	689.6	611.4	689.6	767.7	787.2	783.7	779.1	776.7	641.3
102.5°	980.7	964.0	897.1	830.2	897.1	964.0	980.7	919.6	837.9	797.1	659.7
105°	1206.7	1197.7	1161.7	1125.7	1161.7	1197.7	1206.7	1069.4	886.3	794.8	661.8
107.5°	1324.2	1326.3	1335.0	1343.7	1335.0	1326.3	1324.2	1132.6	877.3	749.6	632.3
110°	1354.2	1363.6	1401.1	1438.6	1401.1	1363.6	1354.2	1140.1	854.7	711.9	606.2



TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1335.0	1349.4	1407.0	1464.6	1407.0	1349.4	1335.0	1115.9	823.8	677.7	583.4
115°	1269.9	1289.9	1369.7	1449.5	1369.7	1289.9	1269.9	1058.9	777.4	636.7	557.3
117.5°	1180.0	1202.1	1290.6	1379.1	1290.6	1202.1	1180.0	989.4	735.4	608.4	540.9
120°	1119.3	1140.9	1226.9	1312.8	1226.9	1140.9	1119.3	945.3	713.2	597.1	535.4
122.5°	1058.7	1079.9	1164.8	1249.6	1164.8	1079.9	1058.7	901.9	692.9	588.4	532.5
125°	978.5	998.0	1076.1	1154.4	1076.1	998.0	978.5	845.3	667.8	579.0	530.1
127.5°	914.1	930.6	996.6	1062.5	996.6	930.6	914.1	799.8	647.4	571.2	528.7
130°	873.5	888.7	949.6	1010.5	949.6	888.7	873.5	771.7	636.1	568.2	529.6
132.5°	838.8	852.5	907.0	961.6	907.0	852.5	838.8	747.7	626.2	565.5	530.1
135°	789.8	801.6	848.6	895.7	848.6	801.6	789.8	713.5	611.9	561.0	529.6
137.5°	753.7	763.3	801.9	840.4	801.9	763.3	753.7	689.2	603.2	560.2	532.9
140°	724.8	733.7	769.7	805.7	769.7	733.7	724.8	669.0	594.7	557.6	533.4
142.5°	704.4	712.2	743.1	774.1	743.1	712.2	704.4	655.4	590.2	557.6	535.3
145°	673.9	679.8	703.2	726.7	703.2	679.8	673.9	633.9	580.6	553.9	535.4
147.5°	648.4	653.3	672.6	692.0	672.6	653.3	648.4	616.9	574.9	553.9	539.0
150°	633.6	637.5	653.3	669.0	653.3	637.5	633.6	607.0	571.6	553.9	541.0
152.5°	621.9	624.9	636.8	648.7	636.8	624.9	621.9	599.2	569.0	553.9	542.2
155°	608.0	610.0	617.9	625.7	617.9	610.0	608.0	590.0	565.9	553.9	545.0
157.5°	596.0	597.3	602.9	608.4	602.9	597.3	596.0	581.9	563.2	553.9	547.7
160°	590.0	590.8	594.0	597.1	594.0	590.8	590.0	577.9	561.9	553.9	549.0
162.5°	584.3	585.0	588.1	591.1	588.1	585.0	584.3	574.1	560.7	553.9	550.3
165°	575.7	576.5	579.7	582.8	579.7	576.5	575.7	568.4	558.8	553.9	552.2
167.5°	571.9	572.2	573.5	574.9	573.5	572.2	571.9	567.1	560.7	557.6	556.2
170°	571.9	571.9	571.9	571.9	571.9	571.9	571.9	567.1	560.7	557.6	557.5
172.5°	568.9	568.6	567.4	566.3	567.4	568.6	568.9	565.1	560.1	557.6	557.6
175°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	562.4	559.2	557.6	558.3
177.5°	564.0	563.6	562.4	561.0	562.4	563.6	564.0	562.1	559.6	558.3	558.9
180°	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1264.1	1264.1	1264.1	1264.1	1264.1
2.5°	1248.6	1254.6	1258.1	1262.9	1274.8
5°	1200.7	1223.4	1230.7	1248.6	1270.1
7.5°	1095.5	1164.9	1184.0	1227.0	1260.5
10°	993.8	1063.2	1096.7	1198.3	1248.6
12.5°	942.4	983.1	1005.8	1148.1	1231.8
15°	910.1	938.8	955.6	1081.1	1212.6
17.5°	885.0	905.3	917.3	1015.3	1186.4
20°	869.4	879.0	889.8	967.5	1156.4
22.5°	858.6	852.7	861.1	934.0	1115.8
25°	851.5	828.8	838.4	907.7	1068.0
27.5°	857.5	807.2	810.8	883.8	1017.8
30°	858.6	781.0	782.1	858.6	961.6
32.5°	850.3	753.5	754.6	827.6	898.1
35°	829.9	721.1	720.0	791.7	812.0
37.5°	802.4	686.5	686.5	752.3	717.5
40°	769.0	651.8	655.3	700.8	633.9
42.5°	728.3	614.7	619.5	632.6	571.7
45°	684.0	578.9	582.4	534.6	523.8
47.5°	635.1	541.7	542.9	443.7	508.2
50°	576.4	503.5	498.7	380.3	507.1
52.5°	525.0	461.6	447.2	344.4	460.5
55°	474.8	417.4	386.3	316.9	427.0
57.5°	430.5	360.0	330.1	284.7	419.8
60°	389.9	303.8	281.1	249.9	385.1
62.5°	356.4	262.0	257.2	226.0	349.2
65°	320.5	233.2	232.0	205.7	296.6
67.5°	285.8	214.1	212.9	186.6	226.0
70°	248.7	193.7	191.4	166.3	167.5
72.5°	210.4	171.0	168.6	149.5	138.8
75°	172.3	144.7	143.5	130.3	112.4
77.5°	135.1	114.8	117.2	105.3	82.6
80°	96.9	83.7	86.1	75.3	62.2
82.5°	64.5	55.0	57.4	47.8	41.8
85°	35.8	31.1	32.3	25.1	19.1
87.5°	16.7	14.4	14.4	9.6	6.0
90°	16.6	10.5	9.8	6.8	3.8
92.5°	102.2	72.7	66.3	40.6	15.0
95°	251.4	141.6	129.9	83.0	36.1
97.5°	338.6	155.5	145.2	103.8	62.5
100°	370.4	167.2	157.8	120.3	82.8
102.5°	385.0	178.9	170.1	135.1	100.1
105°	395.7	196.1	188.7	159.1	129.5
107.5°	397.7	221.8	214.9	187.3	159.7
110°	394.7	236.1	229.8	204.9	179.9



TEST NUMBER: P935259

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	394.8	253.4	247.4	223.7	200.0
115°	398.5	279.3	273.8	251.9	230.0
117.5°	405.9	304.6	299.6	279.7	259.8
120°	411.8	319.3	314.5	295.8	277.1
122.5°	420.5	336.6	331.9	313.0	294.1
125°	432.2	358.8	354.5	337.3	320.1
127.5°	443.9	380.3	375.9	358.4	341.1
130°	452.4	394.6	389.9	371.1	352.4
132.5°	459.3	406.2	401.5	382.8	364.1
135°	466.9	419.8	415.6	398.5	381.4
137.5°	478.1	437.1	432.8	416.0	399.1
140°	485.1	448.8	444.9	429.3	413.7
142.5°	490.9	457.5	453.8	439.5	425.1
145°	498.4	470.6	467.4	454.9	442.4
147.5°	509.4	487.2	484.1	472.0	459.7
150°	515.2	495.8	493.0	482.0	471.0
152.5°	518.9	501.5	499.4	491.0	482.6
155°	527.3	514.0	512.4	506.2	500.0
157.5°	535.5	526.4	524.8	518.8	512.8
160°	539.3	532.0	530.8	526.2	521.5
162.5°	543.3	538.0	537.1	533.6	530.1
165°	549.1	546.6	545.8	542.6	539.5
167.5°	553.6	551.6	551.2	549.7	548.2
170°	557.3	557.2	556.9	555.3	553.9
172.5°	557.6	557.6	557.5	557.2	556.9
175°	559.8	561.0	561.0	561.0	561.0
177.5°	560.1	561.0	561.0	561.0	561.0
180°	561.0	561.0	561.0	561.0	561.0



TEST NUMBER: P935259  
 CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-4000K

**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	13.10	13.94	14.08	14.94	16.24	15.90	16.74	16.88	17.73	19.04
	3H	13.58	14.33	14.57	15.33	16.66	17.24	17.99	18.23	18.99	20.32
	4H	13.77	14.48	14.77	15.49	16.82	17.67	18.38	18.68	19.39	20.73
	6H	13.89	14.54	14.90	15.55	16.90	17.95	18.60	18.96	19.61	20.96
	8H	13.89	14.51	14.91	15.54	16.88	18.02	18.64	19.04	19.67	21.01
	12H	13.86	14.45	14.88	15.47	16.84	18.05	18.64	19.08	19.66	21.03
4H	2H	14.13	14.84	15.14	15.84	17.18	16.31	17.02	17.32	18.03	19.36
	3H	15.15	15.74	16.17	16.78	18.13	17.80	18.40	18.82	19.43	20.78
	4H	15.43	15.97	16.45	16.99	18.37	18.32	18.87	19.35	19.89	21.27
	6H	15.55	16.02	16.59	17.07	18.44	18.68	19.15	19.72	20.20	21.57
	8H	15.56	15.99	16.59	17.03	18.42	18.78	19.22	19.82	20.26	21.64
	12H	15.52	15.92	16.58	16.97	18.36	18.83	19.23	19.89	20.28	21.67
8H	4H	15.87	16.31	16.91	17.35	18.74	18.45	18.88	19.49	19.93	21.31
	6H	16.13	16.49	17.20	17.58	18.96	18.88	19.24	19.94	20.32	21.70
	8H	16.18	16.49	17.25	17.56	18.96	19.02	19.34	20.09	20.41	21.81
	12H	16.16	16.44	17.23	17.50	18.94	19.11	19.39	20.19	20.46	21.90
12H	4H	15.88	16.27	16.93	17.33	18.72	18.41	18.81	19.47	19.86	21.25
	6H	16.19	16.51	17.26	17.58	18.98	18.87	19.19	19.94	20.26	21.66
	8H	16.26	16.54	17.33	17.60	19.04	19.03	19.31	20.10	20.37	21.81