

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: P935260

Luminaire Tested: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

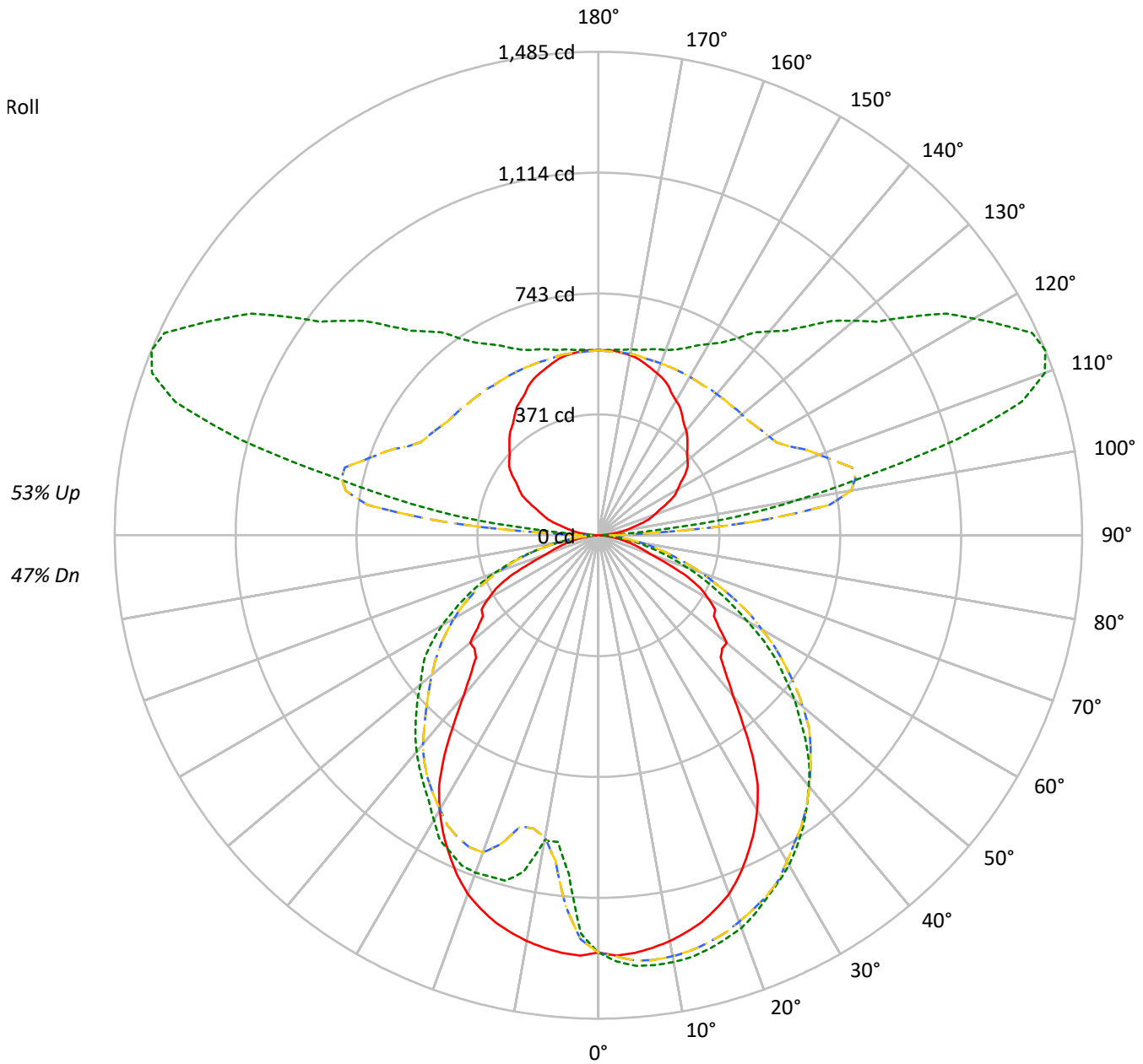
Test Method: LM-79-2019  
Report Number: P935260  
REPORT IS A COMBINATION OF REPORTS P933746 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7012.1 lumens  
Efficiency: N/A  
Efficacy: 120.9 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-4-5000K

### Luminous Intensity Polar Plot



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



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

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

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

	0°	90°	180°	270°
0°	11892	11892	11892	11892
5°	11968	12005	11968	9440
10°	11875	11825	11875	8454
15°	11732	11569	11732	9660
20°	11473	11265	11473	9680
25°	10959	10822	10959	9476
30°	10297	10456	10297	9025
35°	9166	9991	9166	8531
40°	7625	9444	7625	8156
45°	6800	8803	6800	7726
50°	7207	8039	7207	7295
55°	6762	7216	6762	7045
60°	6945	6128	6945	6452
65°	6266	5065	6266	5664
70°	4311	4037	4311	4747
75°	3738	2983	3738	3574
80°	2948	1973	2948	2148
85°	1606	1045	1606	888

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.7	1.6
10°-20°	328.5	4.7
20°-30°	507.8	7.2
30°-40°	606.1	8.6
40°-50°	609.7	8.7
50°-60°	530.5	7.6
60°-70°	376.1	5.4
70°-80°	199.0	2.8
80°-90°	51.7	0.7
90°-100°	277.2	4.0
100°-110°	728.9	10.4
110°-120°	755.8	10.8
120°-130°	606.2	8.6
130°-140°	475.7	6.8
140°-150°	365.1	5.2
150°-160°	262.9	3.7
160°-170°	160.9	2.3
170°-180°	54.4	0.8
0°-30°	951.9	13.6
0°-40°	1558.1	22.2
0°-60°	2698.3	38.5
0°-90°	3325.2	47.4
90°-120°	1761.9	25.1
90°-150°	3208.8	45.8
90°-180°	3687.0	52.6
0°-180°	7012.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1282	1282	1282	1282	1282	
5°	1288	1328	1288	1044	1288	122
15°	1229	1316	1229	1098	1229	346
25°	1083	1227	1083	1074	1083	497
35°	823	1095	823	935	823	509
45°	531	902	531	792	531	425
55°	433	666	433	650	433	398
65°	301	401	301	449	301	287
75°	114	190	114	228	114	120
85°	19	48	19	41	19	26
90°	4	14	4	14	4	4
95°	37	168	37	168	37	41
105°	131	1141	131	1141	131	139
115°	233	1470	233	1470	233	230
125°	324	1170	324	1170	324	288
135°	387	908	387	908	387	299
145°	448	737	448	737	448	281
155°	507	634	507	634	507	233
165°	547	591	547	591	547	154
175°	569	572	569	572	569	54
180°	569	569	569	569	569	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1292.5	1292.5	1299.8	1302.2	1302.2	1298.5	1295.0	1298.5	1309.5	1313.1	1311.9
5°	1287.7	1297.3	1310.7	1313.1	1315.5	1314.3	1311.9	1314.3	1326.4	1328.9	1330.1
7.5°	1278.0	1296.2	1313.1	1316.8	1320.4	1316.8	1315.5	1318.0	1330.1	1332.5	1332.5
10°	1265.9	1291.3	1310.7	1313.1	1316.8	1313.1	1313.1	1318.0	1330.1	1332.5	1333.8
12.5°	1248.9	1284.0	1302.2	1304.7	1309.5	1308.3	1307.1	1311.9	1324.1	1326.4	1326.4
15°	1229.4	1270.7	1287.7	1290.1	1298.5	1296.2	1296.2	1301.0	1314.3	1318.0	1316.8
17.5°	1202.8	1253.8	1273.1	1276.8	1282.8	1281.6	1282.8	1287.7	1299.8	1302.2	1303.4
20°	1172.4	1230.7	1253.8	1257.3	1263.4	1263.4	1263.4	1269.4	1281.6	1286.4	1286.4
22.5°	1131.2	1206.4	1230.7	1233.1	1240.4	1240.4	1242.8	1251.3	1262.2	1263.4	1263.4
25°	1082.8	1179.8	1200.3	1207.7	1214.9	1218.5	1222.2	1227.0	1230.7	1229.4	1230.7
27.5°	1031.9	1145.8	1172.4	1177.3	1187.0	1190.7	1195.5	1196.8	1198.0	1201.5	1199.2
30°	974.9	1098.5	1138.5	1143.4	1159.1	1161.5	1156.8	1159.1	1165.2	1167.7	1170.1
32.5°	910.5	1028.2	1103.3	1114.3	1128.9	1121.5	1120.3	1124.0	1133.7	1133.7	1136.1
35°	823.3	973.7	1070.7	1080.3	1091.2	1082.8	1087.6	1088.8	1094.9	1098.5	1097.3
37.5°	727.5	926.3	1036.7	1044.0	1052.4	1041.5	1048.8	1052.4	1057.3	1054.9	1054.9
40°	642.7	852.4	996.7	1001.5	1008.8	1000.3	1007.5	1010.0	1012.4	1010.0	1008.8
42.5°	579.6	771.1	954.2	960.3	955.4	961.5	963.9	968.8	965.1	960.3	960.3
45°	531.1	749.3	908.2	915.4	908.2	917.9	921.5	921.5	910.5	908.2	907.0
47.5°	515.3	705.7	862.1	862.1	858.4	870.5	876.7	868.1	857.2	853.6	853.6
50°	514.1	657.2	799.0	794.2	811.2	825.7	819.7	811.2	802.7	789.3	789.3
52.5°	466.8	597.8	717.8	736.0	762.7	771.1	761.4	753.0	738.4	732.3	727.5
55°	432.9	535.9	643.9	680.2	708.1	719.0	700.8	692.3	670.5	666.9	664.4
57.5°	425.6	446.2	575.9	622.0	656.0	654.8	643.9	628.1	609.9	606.2	605.0
60°	390.4	322.5	503.2	557.8	592.9	589.3	579.6	565.0	548.0	545.7	543.2
62.5°	354.0	234.0	420.8	482.6	532.3	531.1	522.6	500.8	488.7	482.6	477.8
65°	300.7	196.4	299.4	401.3	472.9	475.3	457.1	441.3	428.0	420.8	419.5
67.5°	229.1	160.0	202.4	334.7	415.9	413.4	390.4	383.1	366.2	362.5	355.2
70°	169.8	106.7	140.7	271.6	360.1	354.0	335.9	327.3	311.6	303.1	298.3
72.5°	140.7	86.1	103.1	211.0	303.1	295.9	280.1	270.4	257.0	249.8	244.9
75°	114.0	90.9	78.8	156.4	246.1	241.3	226.8	217.0	206.1	196.4	197.7
77.5°	83.7	84.9	63.0	115.2	195.2	187.9	179.4	167.3	162.4	152.8	152.8
80°	63.0	66.7	47.3	78.8	140.7	140.7	133.3	124.9	116.4	111.6	111.6
82.5°	42.4	42.4	35.1	49.7	95.8	92.1	87.3	84.9	80.0	77.6	77.6
85°	19.4	24.2	21.8	30.3	52.1	54.6	54.6	52.1	50.9	48.5	49.7
87.5°	6.1	10.9	13.3	17.0	26.7	27.9	29.1	29.1	29.1	30.3	30.3
90°	3.9	6.9	9.9	10.6	16.8	25.0	29.0	25.8	19.4	14.5	14.5
92.5°	15.2	41.2	67.2	73.7	103.6	143.4	163.3	143.2	102.8	72.5	69.7
95°	36.6	84.2	131.7	143.5	254.8	403.2	477.5	426.1	323.3	246.2	237.5
97.5°	63.3	105.3	147.2	157.7	343.3	590.8	714.5	682.0	617.1	568.3	551.7
100°	84.0	122.0	160.0	169.5	375.5	650.2	787.5	789.9	794.5	798.1	778.3
102.5°	101.5	137.0	172.4	181.3	390.3	668.8	808.1	849.5	932.3	994.3	977.3
105°	131.3	161.3	191.3	198.9	401.2	670.9	805.8	898.6	1084.2	1223.4	1214.3
107.5°	161.9	189.9	217.9	224.8	403.2	641.0	759.9	889.4	1148.3	1342.5	1344.7
110°	182.4	207.8	233.0	239.3	400.1	614.6	721.8	866.5	1155.9	1373.0	1382.5



TEST NUMBER: P935260

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	202.7	226.8	250.8	256.9	400.3	591.5	687.1	835.2	1131.3	1353.5	1368.1
115°	233.2	255.4	277.6	283.2	404.0	565.0	645.5	788.2	1073.5	1287.5	1307.7
117.5°	263.4	283.6	303.8	308.8	411.5	548.4	616.9	745.6	1003.1	1196.3	1218.7
120°	280.9	299.9	318.9	323.7	417.6	542.8	605.4	723.1	958.3	1134.8	1156.7
122.5°	298.2	317.3	336.5	341.3	426.4	539.9	596.6	702.5	914.4	1073.3	1094.8
125°	324.5	341.9	359.4	363.8	438.2	537.4	587.0	677.1	857.0	992.0	1011.9
127.5°	345.8	363.4	381.1	385.5	450.0	536.0	579.1	656.3	810.9	926.8	943.5
130°	357.3	376.3	395.3	400.0	458.7	536.9	576.0	644.9	782.4	885.6	901.0
132.5°	369.1	388.1	407.1	411.9	465.6	537.4	573.3	634.9	758.0	850.4	864.3
135°	386.7	404.0	421.3	425.6	473.3	536.9	568.8	620.4	723.4	800.8	812.7
137.5°	404.6	421.8	438.8	443.2	484.7	540.2	568.0	611.6	698.7	764.2	773.9
140°	419.5	435.3	451.0	455.0	491.8	540.8	565.3	602.9	678.3	734.8	743.9
142.5°	430.9	445.5	460.1	463.8	497.7	542.7	565.3	598.3	664.5	714.2	722.0
145°	448.5	461.2	473.9	477.1	505.3	542.8	561.5	588.6	642.7	683.2	689.2
147.5°	466.1	478.5	490.8	493.9	516.5	546.5	561.5	582.8	625.4	657.3	662.3
150°	477.5	488.7	499.9	502.7	522.4	548.5	561.5	579.5	615.4	642.4	646.3
152.5°	489.3	497.8	506.3	508.4	526.1	549.7	561.5	576.9	607.5	630.5	633.6
155°	506.9	513.2	519.5	521.1	534.6	552.5	561.5	573.7	598.2	616.4	618.4
157.5°	519.9	526.0	532.1	533.6	542.9	555.3	561.5	571.0	590.0	604.2	605.6
160°	528.7	533.5	538.1	539.3	546.8	556.6	561.5	569.7	585.9	598.2	599.0
162.5°	537.4	541.0	544.6	545.5	550.8	558.0	561.5	568.4	582.1	592.4	593.1
165°	546.9	550.2	553.4	554.2	556.7	559.9	561.5	566.5	576.3	583.7	584.5
167.5°	555.8	557.3	558.9	559.2	561.3	563.9	565.3	568.5	574.9	579.8	580.2
170°	561.5	563.0	564.6	564.9	565.0	565.2	565.3	568.5	574.9	579.8	579.8
172.5°	564.6	564.9	565.2	565.3	565.3	565.3	565.3	567.9	572.9	576.8	576.5
175°	568.8	568.8	568.8	568.8	567.6	566.0	565.3	567.0	570.2	572.5	572.5
177.5°	568.8	568.8	568.8	568.8	567.9	566.7	566.0	567.3	569.9	571.8	571.4
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1314.3	1310.7	1314.3	1311.9	1313.1	1309.5	1298.5	1295.0	1298.5	1302.2	1302.2
5°	1330.1	1327.7	1330.1	1330.1	1328.9	1326.4	1314.3	1311.9	1314.3	1315.5	1313.1
7.5°	1335.0	1331.3	1335.0	1332.5	1332.5	1330.1	1318.0	1315.5	1316.8	1320.4	1316.8
10°	1335.0	1331.3	1335.0	1333.8	1332.5	1330.1	1318.0	1313.1	1313.1	1316.8	1313.1
12.5°	1328.9	1326.4	1328.9	1326.4	1326.4	1324.1	1311.9	1307.1	1308.3	1309.5	1304.7
15°	1319.2	1315.5	1319.2	1316.8	1318.0	1314.3	1301.0	1296.2	1296.2	1298.5	1290.1
17.5°	1304.7	1299.8	1304.7	1303.4	1302.2	1299.8	1287.7	1282.8	1281.6	1282.8	1276.8
20°	1287.7	1284.0	1287.7	1286.4	1286.4	1281.6	1269.4	1263.4	1263.4	1263.4	1257.3
22.5°	1261.0	1257.3	1261.0	1263.4	1263.4	1262.2	1251.3	1242.8	1240.4	1240.4	1233.1
25°	1230.7	1227.0	1230.7	1230.7	1229.4	1230.7	1227.0	1222.2	1218.5	1214.9	1207.7
27.5°	1201.5	1199.2	1201.5	1199.2	1201.5	1198.0	1196.8	1195.5	1190.7	1187.0	1177.3
30°	1172.4	1170.1	1172.4	1170.1	1167.7	1165.2	1159.1	1156.8	1161.5	1159.1	1143.4
32.5°	1136.1	1133.7	1136.1	1136.1	1133.7	1133.7	1124.0	1120.3	1121.5	1128.9	1114.3
35°	1098.5	1094.9	1098.5	1097.3	1098.5	1094.9	1088.8	1087.6	1082.8	1091.2	1080.3
37.5°	1054.9	1051.2	1054.9	1054.9	1054.9	1057.3	1052.4	1048.8	1041.5	1052.4	1044.0
40°	1010.0	1005.2	1010.0	1008.8	1010.0	1012.4	1010.0	1007.5	1000.3	1008.8	1001.5
42.5°	959.1	957.9	959.1	960.3	960.3	965.1	968.8	963.9	961.5	955.4	960.3
45°	904.5	902.1	904.5	907.0	908.2	910.5	921.5	921.5	917.9	908.2	915.4
47.5°	846.3	840.2	846.3	853.6	853.6	857.2	868.1	876.7	870.5	858.4	862.1
50°	784.4	785.7	784.4	789.3	789.3	802.7	811.2	819.7	825.7	811.2	794.2
52.5°	723.9	722.7	723.9	727.5	732.3	738.4	753.0	761.4	771.1	762.7	736.0
55°	663.2	665.7	663.2	664.4	666.9	670.5	692.3	700.8	719.0	708.1	680.2
57.5°	602.7	599.0	602.7	605.0	606.2	609.9	628.1	643.9	654.8	656.0	622.0
60°	532.3	527.4	532.3	543.2	545.7	548.0	565.0	579.6	589.3	592.9	557.8
62.5°	470.4	462.0	470.4	477.8	482.6	488.7	500.8	522.6	531.1	532.3	482.6
65°	405.0	401.3	405.0	419.5	420.8	428.0	441.3	457.1	475.3	472.9	401.3
67.5°	345.6	345.6	345.6	355.2	362.5	366.2	383.1	390.4	413.4	415.9	334.7
70°	291.0	289.8	291.0	298.3	303.1	311.6	327.3	335.9	354.0	360.1	271.6
72.5°	238.9	237.7	238.9	244.9	249.8	257.0	270.4	280.1	295.9	303.1	211.0
75°	192.8	190.3	192.8	197.7	196.4	206.1	217.0	226.8	241.3	246.1	156.4
77.5°	147.9	147.9	147.9	152.8	152.8	162.4	167.3	179.4	187.9	195.2	115.2
80°	110.3	109.1	110.3	111.6	111.6	116.4	124.9	133.3	140.7	140.7	78.8
82.5°	77.6	75.2	77.6	77.6	77.6	80.0	84.9	87.3	92.1	95.8	49.7
85°	48.5	48.5	48.5	49.7	48.5	50.9	52.1	54.6	54.6	52.1	30.3
87.5°	31.6	30.3	31.6	30.3	30.3	29.1	29.1	29.1	27.9	26.7	17.0
90°	14.5	14.5	14.5	14.5	14.5	19.4	25.8	29.0	25.0	16.8	10.6
92.5°	58.1	46.5	58.1	69.7	72.5	102.8	143.2	163.3	143.4	103.6	73.7
95°	202.5	167.6	202.5	237.5	246.2	323.3	426.1	477.5	403.2	254.8	143.5
97.5°	485.2	418.7	485.2	551.7	568.3	617.1	682.0	714.5	590.8	343.3	157.7
100°	699.1	619.9	699.1	778.3	798.1	794.5	789.9	787.5	650.2	375.5	169.5
102.5°	909.5	841.7	909.5	977.3	994.3	932.3	849.5	808.1	668.8	390.3	181.3
105°	1177.8	1141.3	1177.8	1214.3	1223.4	1084.2	898.6	805.8	670.9	401.2	198.9
107.5°	1353.5	1362.3	1353.5	1344.7	1342.5	1148.3	889.4	759.9	641.0	403.2	224.8
110°	1420.5	1458.5	1420.5	1382.5	1373.0	1155.9	866.5	721.8	614.6	400.1	239.3





TEST NUMBER: P935260

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1426.5	1484.8	1426.5	1368.1	1353.5	1131.3	835.2	687.1	591.5	400.3	256.9
115°	1388.7	1469.6	1388.7	1307.7	1287.5	1073.5	788.2	645.5	565.0	404.0	283.2
117.5°	1308.4	1398.2	1308.4	1218.7	1196.3	1003.1	745.6	616.9	548.4	411.5	308.8
120°	1243.8	1331.0	1243.8	1156.7	1134.8	958.3	723.1	605.4	542.8	417.6	323.7
122.5°	1180.9	1266.9	1180.9	1094.8	1073.3	914.4	702.5	596.6	539.9	426.4	341.3
125°	1091.0	1170.3	1091.0	1011.9	992.0	857.0	677.1	587.0	537.4	438.2	363.8
127.5°	1010.4	1077.2	1010.4	943.5	926.8	810.9	656.3	579.1	536.0	450.0	385.5
130°	962.8	1024.5	962.8	901.0	885.6	782.4	644.9	576.0	536.9	458.7	400.0
132.5°	919.5	974.9	919.5	864.3	850.4	758.0	634.9	573.3	537.4	465.6	411.9
135°	860.3	908.1	860.3	812.7	800.8	723.4	620.4	568.8	536.9	473.3	425.6
137.5°	813.0	852.0	813.0	773.9	764.2	698.7	611.6	568.0	540.2	484.7	443.2
140°	780.4	816.8	780.4	743.9	734.8	678.3	602.9	565.3	540.8	491.8	455.0
142.5°	753.4	784.8	753.4	722.0	714.2	664.5	598.3	565.3	542.7	497.7	463.8
145°	713.0	736.7	713.0	689.2	683.2	642.7	588.6	561.5	542.8	505.3	477.1
147.5°	681.9	701.6	681.9	662.3	657.3	625.4	582.8	561.5	546.5	516.5	493.9
150°	662.3	678.3	662.3	646.3	642.4	615.4	579.5	561.5	548.5	522.4	502.7
152.5°	645.6	657.7	645.6	633.6	630.5	607.5	576.9	561.5	549.7	526.1	508.4
155°	626.4	634.4	626.4	618.4	616.4	598.2	573.7	561.5	552.5	534.6	521.1
157.5°	611.3	616.9	611.3	605.6	604.2	590.0	571.0	561.5	555.3	542.9	533.6
160°	602.2	605.4	602.2	599.0	598.2	585.9	569.7	561.5	556.6	546.8	539.3
162.5°	596.2	599.3	596.2	593.1	592.4	582.1	568.4	561.5	558.0	550.8	545.5
165°	587.7	590.9	587.7	584.5	583.7	576.3	566.5	561.5	559.9	556.7	554.2
167.5°	581.5	582.8	581.5	580.2	579.8	574.9	568.5	565.3	563.9	561.3	559.2
170°	579.8	579.8	579.8	579.8	579.8	574.9	568.5	565.3	565.2	565.0	564.9
172.5°	575.3	574.1	575.3	576.5	576.8	572.9	567.9	565.3	565.3	565.3	565.3
175°	572.5	572.5	572.5	572.5	572.5	570.2	567.0	565.3	566.0	567.6	568.8
177.5°	570.2	568.8	570.2	571.4	571.8	569.9	567.3	566.0	566.7	567.9	568.8
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935260

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1299.8	1292.5	1292.5	1280.4	1275.5	1271.9	1265.9	1247.7	1242.8	1238.0	1245.2
5°	1310.7	1297.3	1287.7	1265.9	1247.7	1240.4	1217.3	1173.7	1144.5	1122.8	1110.7
7.5°	1313.1	1296.2	1278.0	1244.0	1200.3	1181.0	1110.7	1030.7	1008.8	989.4	977.3
10°	1310.7	1291.3	1265.9	1214.9	1111.9	1077.9	1007.5	955.4	942.1	938.4	942.1
12.5°	1302.2	1284.0	1248.9	1164.0	1019.7	996.7	955.4	925.1	922.7	928.8	961.5
15°	1287.7	1270.7	1229.4	1096.1	968.8	951.8	922.7	911.8	925.1	967.5	1065.8
17.5°	1273.1	1253.8	1202.8	1029.4	930.0	917.9	897.2	919.1	994.2	1051.2	1084.0
20°	1253.8	1230.7	1172.4	980.9	902.1	891.2	881.4	979.7	1036.7	1057.3	1075.4
22.5°	1230.7	1206.4	1131.2	947.0	873.0	864.5	870.5	1013.7	1036.7	1051.2	1067.0
25°	1200.3	1179.8	1082.8	920.3	850.0	840.2	863.3	1010.0	1023.3	1027.0	1058.5
27.5°	1172.4	1145.8	1031.9	896.0	822.1	818.4	869.3	994.2	1004.0	1007.5	1041.5
30°	1138.5	1098.5	974.9	870.5	793.0	791.8	870.5	974.9	972.4	982.1	1016.1
32.5°	1103.3	1028.2	910.5	839.0	765.1	763.9	862.1	945.8	943.3	956.7	982.1
35°	1070.7	973.7	823.3	802.7	729.9	731.1	841.4	911.8	913.0	925.1	940.9
37.5°	1036.7	926.3	727.5	762.7	696.0	696.0	813.5	880.3	877.9	881.4	903.3
40°	996.7	852.4	642.7	710.5	664.4	660.8	779.7	846.3	837.9	836.7	866.9
42.5°	954.2	771.1	579.6	641.4	628.1	623.2	738.4	805.1	789.3	793.0	831.8
45°	908.2	749.3	531.1	542.0	590.4	586.9	693.5	757.8	746.9	756.6	796.7
47.5°	862.1	705.7	515.3	449.9	550.4	549.2	643.9	711.8	705.7	715.3	757.8
50°	799.0	657.2	514.1	385.6	505.6	510.4	584.4	666.9	666.9	675.3	720.2
52.5°	717.8	597.8	466.8	349.2	453.4	468.0	532.3	628.1	630.5	639.0	679.0
55°	643.9	535.9	432.9	321.3	391.7	423.1	481.3	588.1	592.9	601.4	637.8
57.5°	575.9	446.2	425.6	288.6	334.7	365.0	436.5	549.2	551.7	559.0	594.1
60°	503.2	322.5	390.4	253.4	284.9	308.0	395.3	503.2	511.7	516.5	546.9
62.5°	420.8	234.0	354.0	229.1	260.7	265.6	361.3	459.5	470.4	474.1	492.3
65°	299.4	196.4	300.7	208.6	235.2	236.4	325.0	414.7	424.3	430.4	443.8
67.5°	202.4	160.0	229.1	189.1	215.8	217.0	289.8	362.5	375.9	380.8	389.2
70°	140.7	106.7	169.8	168.6	194.0	196.4	252.2	315.2	327.3	331.0	335.9
72.5°	103.1	86.1	140.7	151.6	171.0	173.4	213.4	261.9	274.0	277.7	280.1
75°	78.8	90.9	114.0	132.1	145.5	146.7	174.6	213.4	221.9	224.3	225.5
77.5°	63.0	84.9	83.7	106.7	118.8	116.4	137.0	164.9	172.2	172.2	172.2
80°	47.3	66.7	63.0	76.4	87.3	84.9	98.2	117.6	120.0	122.4	121.2
82.5°	35.1	42.4	42.4	48.5	58.2	55.8	65.4	76.4	76.4	76.4	78.8
85°	21.8	24.2	19.4	25.4	32.8	31.6	36.3	41.2	42.4	42.4	40.0
87.5°	13.3	10.9	6.1	9.7	14.6	14.6	17.0	18.2	17.0	17.0	17.0
90°	9.9	6.9	3.9	6.9	9.9	10.6	16.8	25.0	29.0	25.8	19.4
92.5°	67.2	41.2	15.2	41.2	67.2	73.7	103.6	143.4	163.3	143.2	102.8
95°	131.7	84.2	36.6	84.2	131.7	143.5	254.8	403.2	477.5	426.1	323.3
97.5°	147.2	105.3	63.3	105.3	147.2	157.7	343.3	590.8	714.5	682.0	617.1
100°	160.0	122.0	84.0	122.0	160.0	169.5	375.5	650.2	787.5	789.9	794.5
102.5°	172.4	137.0	101.5	137.0	172.4	181.3	390.3	668.8	808.1	849.5	932.3
105°	191.3	161.3	131.3	161.3	191.3	198.9	401.2	670.9	805.8	898.6	1084.2
107.5°	217.9	189.9	161.9	189.9	217.9	224.8	403.2	641.0	759.9	889.4	1148.3
110°	233.0	207.8	182.4	207.8	233.0	239.3	400.1	614.6	721.8	866.5	1155.9



TEST NUMBER: P935260

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	250.8	226.8	202.7	226.8	250.8	256.9	400.3	591.5	687.1	835.2	1131.3
115°	277.6	255.4	233.2	255.4	277.6	283.2	404.0	565.0	645.5	788.2	1073.5
117.5°	303.8	283.6	263.4	283.6	303.8	308.8	411.5	548.4	616.9	745.6	1003.1
120°	318.9	299.9	280.9	299.9	318.9	323.7	417.6	542.8	605.4	723.1	958.3
122.5°	336.5	317.3	298.2	317.3	336.5	341.3	426.4	539.9	596.6	702.5	914.4
125°	359.4	341.9	324.5	341.9	359.4	363.8	438.2	537.4	587.0	677.1	857.0
127.5°	381.1	363.4	345.8	363.4	381.1	385.5	450.0	536.0	579.1	656.3	810.9
130°	395.3	376.3	357.3	376.3	395.3	400.0	458.7	536.9	576.0	644.9	782.4
132.5°	407.1	388.1	369.1	388.1	407.1	411.9	465.6	537.4	573.3	634.9	758.0
135°	421.3	404.0	386.7	404.0	421.3	425.6	473.3	536.9	568.8	620.4	723.4
137.5°	438.8	421.8	404.6	421.8	438.8	443.2	484.7	540.2	568.0	611.6	698.7
140°	451.0	435.3	419.5	435.3	451.0	455.0	491.8	540.8	565.3	602.9	678.3
142.5°	460.1	445.5	430.9	445.5	460.1	463.8	497.7	542.7	565.3	598.3	664.5
145°	473.9	461.2	448.5	461.2	473.9	477.1	505.3	542.8	561.5	588.6	642.7
147.5°	490.8	478.5	466.1	478.5	490.8	493.9	516.5	546.5	561.5	582.8	625.4
150°	499.9	488.7	477.5	488.7	499.9	502.7	522.4	548.5	561.5	579.5	615.4
152.5°	506.3	497.8	489.3	497.8	506.3	508.4	526.1	549.7	561.5	576.9	607.5
155°	519.5	513.2	506.9	513.2	519.5	521.1	534.6	552.5	561.5	573.7	598.2
157.5°	532.1	526.0	519.9	526.0	532.1	533.6	542.9	555.3	561.5	571.0	590.0
160°	538.1	533.5	528.7	533.5	538.1	539.3	546.8	556.6	561.5	569.7	585.9
162.5°	544.6	541.0	537.4	541.0	544.6	545.5	550.8	558.0	561.5	568.4	582.1
165°	553.4	550.2	546.9	550.2	553.4	554.2	556.7	559.9	561.5	566.5	576.3
167.5°	558.9	557.3	555.8	557.3	558.9	559.2	561.3	563.9	565.3	568.5	574.9
170°	564.6	563.0	561.5	563.0	564.6	564.9	565.0	565.2	565.3	568.5	574.9
172.5°	565.2	564.9	564.6	564.9	565.2	565.3	565.3	565.3	565.3	567.9	572.9
175°	568.8	568.8	568.8	568.8	568.8	568.8	567.6	566.0	565.3	567.0	570.2
177.5°	568.8	568.8	568.8	568.8	568.8	568.8	567.9	566.7	566.0	567.3	569.9
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935260

CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1236.8	1233.1	1238.0	1224.6	1238.0	1233.1	1236.8	1245.2	1238.0	1242.8	1247.7
5°	1085.2	1079.1	1059.8	1044.0	1059.8	1079.1	1085.2	1110.7	1122.8	1144.5	1173.7
7.5°	970.0	965.1	960.3	950.5	960.3	965.1	970.0	977.3	989.4	1008.8	1030.7
10°	944.5	945.8	953.0	951.8	953.0	945.8	944.5	942.1	938.4	942.1	955.4
12.5°	1010.0	1020.9	1060.9	1058.5	1060.9	1020.9	1010.0	961.5	928.8	922.7	925.1
15°	1085.2	1088.8	1097.3	1098.5	1097.3	1088.8	1085.2	1065.8	967.5	925.1	911.8
17.5°	1092.4	1093.7	1099.8	1099.8	1099.8	1093.7	1092.4	1084.0	1051.2	994.2	919.1
20°	1086.4	1088.8	1101.0	1103.3	1101.0	1088.8	1086.4	1075.4	1057.3	1036.7	979.7
22.5°	1084.0	1088.8	1098.5	1097.3	1098.5	1088.8	1084.0	1067.0	1051.2	1036.7	1013.7
25°	1071.9	1071.9	1073.1	1074.3	1073.1	1071.9	1071.9	1058.5	1027.0	1023.3	1010.0
27.5°	1046.4	1048.8	1056.1	1054.9	1056.1	1048.8	1046.4	1041.5	1007.5	1004.0	994.2
30°	1023.3	1020.9	1014.9	1010.0	1014.9	1020.9	1023.3	1016.1	982.1	972.4	974.9
32.5°	984.5	978.4	972.4	968.8	972.4	978.4	984.5	982.1	956.7	943.3	945.8
35°	938.4	939.7	938.4	934.9	938.4	939.7	938.4	940.9	925.1	913.0	911.8
37.5°	905.8	908.2	907.0	902.1	907.0	908.2	905.8	903.3	881.4	877.9	880.3
40°	871.8	873.0	871.8	868.1	871.8	873.0	871.8	866.9	836.7	837.9	846.3
42.5°	839.0	837.9	834.2	831.8	834.2	837.9	839.0	831.8	793.0	789.3	805.1
45°	801.4	802.7	795.4	791.8	795.4	802.7	801.4	796.7	756.6	746.9	757.8
47.5°	763.9	763.9	757.8	754.2	757.8	763.9	763.9	757.8	715.3	705.7	711.8
50°	723.9	722.7	714.2	713.0	714.2	722.7	723.9	720.2	675.3	666.9	666.9
52.5°	677.8	677.8	679.0	681.4	679.0	677.8	677.8	679.0	639.0	630.5	628.1
55°	637.8	639.0	647.4	649.9	647.4	639.0	637.8	637.8	601.4	592.9	588.1
57.5°	596.5	596.5	602.7	602.7	602.7	596.5	596.5	594.1	559.0	551.7	549.2
60°	549.2	551.7	556.5	555.3	556.5	551.7	549.2	546.9	516.5	511.7	503.2
62.5°	499.5	502.0	503.2	500.8	503.2	502.0	499.5	492.3	474.1	470.4	459.5
65°	447.4	449.9	451.0	448.7	451.0	449.9	447.4	443.8	430.4	424.3	414.7
67.5°	394.1	392.9	391.7	396.4	391.7	392.9	394.1	389.2	380.8	375.9	362.5
70°	339.5	339.5	338.3	340.7	338.3	339.5	339.5	335.9	331.0	327.3	315.2
72.5°	281.3	280.1	284.9	281.3	284.9	280.1	281.3	280.1	277.7	274.0	261.9
75°	224.3	226.8	224.3	228.0	224.3	226.8	224.3	225.5	224.3	221.9	213.4
77.5°	171.0	173.4	171.0	171.0	171.0	173.4	171.0	172.2	172.2	172.2	164.9
80°	121.2	120.0	120.0	118.8	120.0	120.0	121.2	121.2	122.4	120.0	117.6
82.5°	77.6	76.4	76.4	78.8	76.4	76.4	77.6	78.8	76.4	76.4	76.4
85°	42.4	43.7	41.2	41.2	41.2	43.7	42.4	40.0	42.4	42.4	41.2
87.5°	15.8	14.6	14.6	14.6	14.6	14.6	15.8	17.0	17.0	17.0	18.2
90°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	19.4	25.8	29.0	25.0
92.5°	72.5	69.7	58.1	46.5	58.1	69.7	72.5	102.8	143.2	163.3	143.4
95°	246.2	237.5	202.5	167.6	202.5	237.5	246.2	323.3	426.1	477.5	403.2
97.5°	568.3	551.7	485.2	418.7	485.2	551.7	568.3	617.1	682.0	714.5	590.8
100°	798.1	778.3	699.1	619.9	699.1	778.3	798.1	794.5	789.9	787.5	650.2
102.5°	994.3	977.3	909.5	841.7	909.5	977.3	994.3	932.3	849.5	808.1	668.8
105°	1223.4	1214.3	1177.8	1141.3	1177.8	1214.3	1223.4	1084.2	898.6	805.8	670.9
107.5°	1342.5	1344.7	1353.5	1362.3	1353.5	1344.7	1342.5	1148.3	889.4	759.9	641.0
110°	1373.0	1382.5	1420.5	1458.5	1420.5	1382.5	1373.0	1155.9	866.5	721.8	614.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1353.5	1368.1	1426.5	1484.8	1426.5	1368.1	1353.5	1131.3	835.2	687.1	591.5
115°	1287.5	1307.7	1388.7	1469.6	1388.7	1307.7	1287.5	1073.5	788.2	645.5	565.0
117.5°	1196.3	1218.7	1308.4	1398.2	1308.4	1218.7	1196.3	1003.1	745.6	616.9	548.4
120°	1134.8	1156.7	1243.8	1331.0	1243.8	1156.7	1134.8	958.3	723.1	605.4	542.8
122.5°	1073.3	1094.8	1180.9	1266.9	1180.9	1094.8	1073.3	914.4	702.5	596.6	539.9
125°	992.0	1011.9	1091.0	1170.3	1091.0	1011.9	992.0	857.0	677.1	587.0	537.4
127.5°	926.8	943.5	1010.4	1077.2	1010.4	943.5	926.8	810.9	656.3	579.1	536.0
130°	885.6	901.0	962.8	1024.5	962.8	901.0	885.6	782.4	644.9	576.0	536.9
132.5°	850.4	864.3	919.5	974.9	919.5	864.3	850.4	758.0	634.9	573.3	537.4
135°	800.8	812.7	860.3	908.1	860.3	812.7	800.8	723.4	620.4	568.8	536.9
137.5°	764.2	773.9	813.0	852.0	813.0	773.9	764.2	698.7	611.6	568.0	540.2
140°	734.8	743.9	780.4	816.8	780.4	743.9	734.8	678.3	602.9	565.3	540.8
142.5°	714.2	722.0	753.4	784.8	753.4	722.0	714.2	664.5	598.3	565.3	542.7
145°	683.2	689.2	713.0	736.7	713.0	689.2	683.2	642.7	588.6	561.5	542.8
147.5°	657.3	662.3	681.9	701.6	681.9	662.3	657.3	625.4	582.8	561.5	546.5
150°	642.4	646.3	662.3	678.3	662.3	646.3	642.4	615.4	579.5	561.5	548.5
152.5°	630.5	633.6	645.6	657.7	645.6	633.6	630.5	607.5	576.9	561.5	549.7
155°	616.4	618.4	626.4	634.4	626.4	618.4	616.4	598.2	573.7	561.5	552.5
157.5°	604.2	605.6	611.3	616.9	611.3	605.6	604.2	590.0	571.0	561.5	555.3
160°	598.2	599.0	602.2	605.4	602.2	599.0	598.2	585.9	569.7	561.5	556.6
162.5°	592.4	593.1	596.2	599.3	596.2	593.1	592.4	582.1	568.4	561.5	558.0
165°	583.7	584.5	587.7	590.9	587.7	584.5	583.7	576.3	566.5	561.5	559.9
167.5°	579.8	580.2	581.5	582.8	581.5	580.2	579.8	574.9	568.5	565.3	563.9
170°	579.8	579.8	579.8	579.8	579.8	579.8	579.8	574.9	568.5	565.3	565.2
172.5°	576.8	576.5	575.3	574.1	575.3	576.5	576.8	572.9	567.9	565.3	565.3
175°	572.5	572.5	572.5	572.5	572.5	572.5	572.5	570.2	567.0	565.3	566.0
177.5°	571.8	571.4	570.2	568.8	570.2	571.4	571.8	569.9	567.3	566.0	566.7
180°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1281.6	1281.6	1281.6	1281.6	1281.6
2.5°	1265.9	1271.9	1275.5	1280.4	1292.5
5°	1217.3	1240.4	1247.7	1265.9	1287.7
7.5°	1110.7	1181.0	1200.3	1244.0	1278.0
10°	1007.5	1077.9	1111.9	1214.9	1265.9
12.5°	955.4	996.7	1019.7	1164.0	1248.9
15°	922.7	951.8	968.8	1096.1	1229.4
17.5°	897.2	917.9	930.0	1029.4	1202.8
20°	881.4	891.2	902.1	980.9	1172.4
22.5°	870.5	864.5	873.0	947.0	1131.2
25°	863.3	840.2	850.0	920.3	1082.8
27.5°	869.3	818.4	822.1	896.0	1031.9
30°	870.5	791.8	793.0	870.5	974.9
32.5°	862.1	763.9	765.1	839.0	910.5
35°	841.4	731.1	729.9	802.7	823.3
37.5°	813.5	696.0	696.0	762.7	727.5
40°	779.7	660.8	664.4	710.5	642.7
42.5°	738.4	623.2	628.1	641.4	579.6
45°	693.5	586.9	590.4	542.0	531.1
47.5°	643.9	549.2	550.4	449.9	515.3
50°	584.4	510.4	505.6	385.6	514.1
52.5°	532.3	468.0	453.4	349.2	466.8
55°	481.3	423.1	391.7	321.3	432.9
57.5°	436.5	365.0	334.7	288.6	425.6
60°	395.3	308.0	284.9	253.4	390.4
62.5°	361.3	265.6	260.7	229.1	354.0
65°	325.0	236.4	235.2	208.6	300.7
67.5°	289.8	217.0	215.8	189.1	229.1
70°	252.2	196.4	194.0	168.6	169.8
72.5°	213.4	173.4	171.0	151.6	140.7
75°	174.6	146.7	145.5	132.1	114.0
77.5°	137.0	116.4	118.8	106.7	83.7
80°	98.2	84.9	87.3	76.4	63.0
82.5°	65.4	55.8	58.2	48.5	42.4
85°	36.3	31.6	32.8	25.4	19.4
87.5°	17.0	14.6	14.6	9.7	6.1
90°	16.8	10.6	9.9	6.9	3.9
92.5°	103.6	73.7	67.2	41.2	15.2
95°	254.8	143.5	131.7	84.2	36.6
97.5°	343.3	157.7	147.2	105.3	63.3
100°	375.5	169.5	160.0	122.0	84.0
102.5°	390.3	181.3	172.4	137.0	101.5
105°	401.2	198.9	191.3	161.3	131.3
107.5°	403.2	224.8	217.9	189.9	161.9
110°	400.1	239.3	233.0	207.8	182.4



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CATALOG NUMBER: SQ4-FA-100U-100D-93050-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	400.3	256.9	250.8	226.8	202.7
115°	404.0	283.2	277.6	255.4	233.2
117.5°	411.5	308.8	303.8	283.6	263.4
120°	417.6	323.7	318.9	299.9	280.9
122.5°	426.4	341.3	336.5	317.3	298.2
125°	438.2	363.8	359.4	341.9	324.5
127.5°	450.0	385.5	381.1	363.4	345.8
130°	458.7	400.0	395.3	376.3	357.3
132.5°	465.6	411.9	407.1	388.1	369.1
135°	473.3	425.6	421.3	404.0	386.7
137.5°	484.7	443.2	438.8	421.8	404.6
140°	491.8	455.0	451.0	435.3	419.5
142.5°	497.7	463.8	460.1	445.5	430.9
145°	505.3	477.1	473.9	461.2	448.5
147.5°	516.5	493.9	490.8	478.5	466.1
150°	522.4	502.7	499.9	488.7	477.5
152.5°	526.1	508.4	506.3	497.8	489.3
155°	534.6	521.1	519.5	513.2	506.9
157.5°	542.9	533.6	532.1	526.0	519.9
160°	546.8	539.3	538.1	533.5	528.7
162.5°	550.8	545.5	544.6	541.0	537.4
165°	556.7	554.2	553.4	550.2	546.9
167.5°	561.3	559.2	558.9	557.3	555.8
170°	565.0	564.9	564.6	563.0	561.5
172.5°	565.3	565.3	565.2	564.9	564.6
175°	567.6	568.8	568.8	568.8	568.8
177.5°	567.9	568.8	568.8	568.8	568.8
180°	568.8	568.8	568.8	568.8	568.8



TEST NUMBER: P935260  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	13.15	13.99	14.13	14.98	16.29	15.95	16.79	16.93	17.78	19.09
	3H	13.63	14.38	14.62	15.38	16.71	17.28	18.03	18.27	19.04	20.36
	4H	13.82	14.53	14.82	15.53	16.87	17.72	18.43	18.72	19.44	20.77
	6H	13.94	14.59	14.95	15.60	16.95	18.00	18.65	19.01	19.66	21.01
	8H	13.94	14.56	14.96	15.59	16.93	18.07	18.69	19.09	19.72	21.06
	12H	13.91	14.50	14.93	15.52	16.89	18.10	18.69	19.12	19.71	21.08
4H	2H	14.17	14.89	15.18	15.89	17.23	16.36	17.07	17.37	18.07	19.41
	3H	15.20	15.79	16.22	16.82	18.18	17.85	18.44	18.87	19.48	20.83
	4H	15.47	16.02	16.50	17.04	18.42	18.37	18.91	19.40	19.94	21.31
	6H	15.60	16.06	16.63	17.11	18.48	18.73	19.19	19.76	20.24	21.61
	8H	15.60	16.04	16.64	17.08	18.47	18.83	19.26	19.87	20.31	21.69
	12H	15.57	15.96	16.63	17.02	18.41	18.88	19.27	19.94	20.33	21.72
8H	4H	15.92	16.36	16.96	17.40	18.78	18.50	18.93	19.53	19.97	21.36
	6H	16.18	16.54	17.24	17.62	19.01	18.92	19.28	19.98	20.37	21.75
	8H	16.22	16.54	17.29	17.61	19.01	19.07	19.39	20.14	20.45	21.86
	12H	16.21	16.48	17.28	17.55	18.99	19.16	19.44	20.23	20.50	21.95
12H	4H	15.92	16.32	16.98	17.37	18.77	18.46	18.85	19.52	19.91	21.30
	6H	16.24	16.56	17.31	17.63	19.03	18.92	19.24	19.99	20.30	21.71
	8H	16.31	16.58	17.38	17.65	19.09	19.08	19.35	20.15	20.42	21.86