

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: P935161

Luminaire Tested: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

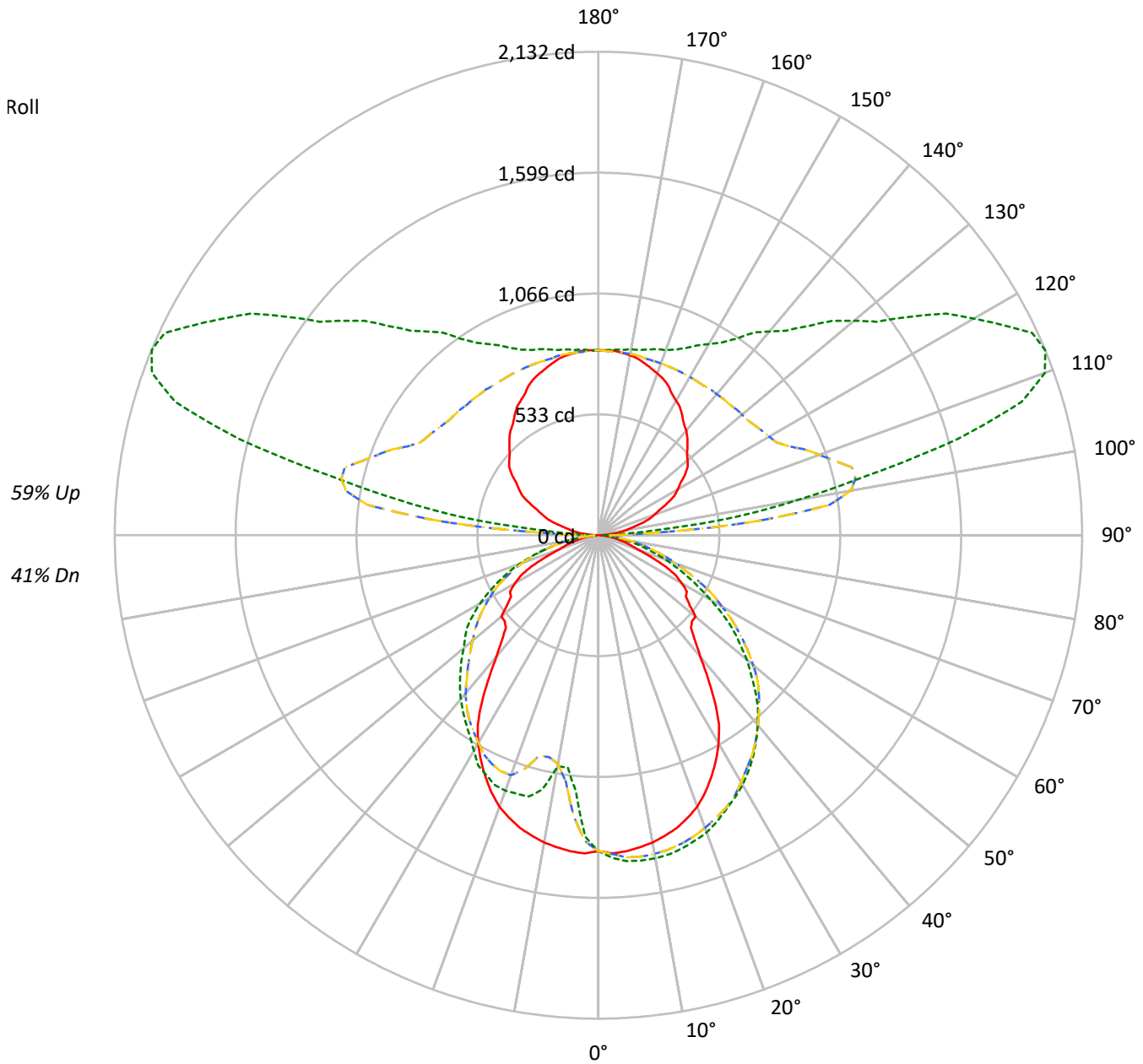
Test Method: LM-79-2019  
Report Number: P935161  
REPORT IS A COMBINATION OF REPORTS P933743 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8906.8 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 73.8  
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



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

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

	0°	90°	180°	270°
0°	8614	8614	8614	8614
5°	8675	8696	8675	6837
10°	8614	8566	8614	6124
15°	8518	8380	8518	6998
20°	8336	8161	8336	7012
25°	7968	7840	7968	6864
30°	7494	7573	7494	6537
35°	6677	7237	6677	6179
40°	5561	6841	5561	5908
45°	4965	6377	4965	5597
50°	5271	5823	5271	5284
55°	4954	5227	4954	5103
60°	5101	4439	5101	4674
65°	4617	3670	4617	4102
70°	3189	2925	3189	3438
75°	2786	2161	2786	2589
80°	2230	1430	2230	1556
85°	1258	757	1258	644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7616 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	1.4
10°-20°	356.9	4.0
20°-30°	551.7	6.2
30°-40°	658.6	7.4
40°-50°	662.5	7.4
50°-60°	576.4	6.5
60°-70°	408.7	4.6
70°-80°	216.2	2.4
80°-90°	57.0	0.6
90°-100°	398.0	4.5
100°-110°	1046.4	11.7
110°-120°	1085.0	12.2
120°-130°	870.3	9.8
130°-140°	682.9	7.7
140°-150°	524.1	5.9
150°-160°	377.5	4.2
160°-170°	231.0	2.6
170°-180°	78.0	0.9
0°-30°	1034.3	11.6
0°-40°	1692.9	19.0
0°-60°	2931.8	32.9
0°-90°	3613.7	40.6
90°-120°	2529.3	28.4
90°-150°	4606.6	51.7
90°-180°	5293.0	59.4
0°-180°	8906.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1392	1392	1392	1392	1392	
5°	1399	1443	1399	1134	1399	133
15°	1336	1429	1336	1194	1336	376
25°	1176	1333	1176	1167	1176	540
35°	894	1190	894	1016	894	553
45°	577	980	577	860	577	462
55°	470	723	470	706	470	432
65°	327	436	327	488	327	312
75°	124	207	124	248	124	130
85°	21	53	21	45	21	28
90°	5	21	5	21	5	5
95°	53	241	53	241	53	58
105°	188	1638	188	1638	188	200
115°	335	2110	335	2110	335	331
125°	466	1680	466	1680	466	414
135°	555	1304	555	1304	555	429
145°	644	1058	644	1058	644	403
155°	728	911	728	911	728	334
165°	785	848	785	848	785	222
175°	816	822	816	822	816	78
180°	816	816	816	816	816	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1404.4	1404.4	1412.3	1414.9	1414.9	1411.0	1407.0	1411.0	1422.8	1426.8	1425.5
5°	1399.1	1409.7	1424.2	1426.8	1429.4	1428.1	1425.5	1428.1	1441.3	1443.9	1445.2
7.5°	1388.6	1408.4	1426.8	1430.8	1434.7	1430.8	1429.4	1432.1	1445.2	1447.9	1447.9
10°	1375.4	1403.1	1424.2	1426.8	1430.8	1426.8	1426.8	1432.1	1445.2	1447.9	1449.2
12.5°	1357.0	1395.2	1414.9	1417.6	1422.8	1421.5	1420.2	1425.5	1438.7	1441.3	1441.3
15°	1335.9	1380.7	1399.1	1401.8	1411.0	1408.4	1408.4	1413.6	1428.1	1432.1	1430.8
17.5°	1306.9	1362.2	1383.3	1387.3	1393.9	1392.5	1393.9	1399.1	1412.3	1414.9	1416.3
20°	1274.0	1337.2	1362.2	1366.2	1372.8	1372.8	1372.8	1379.4	1392.5	1397.8	1397.8
22.5°	1229.2	1310.9	1337.2	1339.8	1347.8	1347.8	1350.4	1359.6	1371.5	1372.8	1372.8
25°	1176.5	1281.9	1304.3	1312.2	1320.1	1324.0	1328.0	1333.3	1337.2	1335.9	1337.2
27.5°	1121.2	1245.0	1274.0	1279.2	1289.8	1293.7	1299.0	1300.3	1301.6	1305.6	1303.0
30°	1059.2	1193.6	1237.1	1242.4	1259.5	1262.1	1256.8	1259.5	1266.1	1268.7	1271.3
32.5°	989.4	1117.2	1198.9	1210.7	1226.5	1218.6	1217.3	1221.3	1231.8	1231.8	1234.5
35°	894.5	1057.9	1163.3	1173.8	1185.7	1176.5	1181.8	1183.1	1189.7	1193.6	1192.3
37.5°	790.5	1006.5	1126.4	1134.3	1143.5	1131.7	1139.6	1143.5	1148.8	1146.2	1146.2
40°	698.2	926.2	1082.9	1088.2	1096.1	1086.9	1094.8	1097.4	1100.1	1097.4	1096.1
42.5°	629.7	837.9	1036.8	1043.4	1038.2	1044.7	1047.4	1052.6	1048.7	1043.4	1043.4
45°	577.0	814.2	986.8	994.7	986.8	997.3	1001.3	1001.3	989.4	986.8	985.5
47.5°	559.9	766.8	936.7	936.7	932.8	945.9	952.5	943.3	931.4	927.5	927.5
50°	558.6	714.1	868.2	862.9	881.4	897.2	890.6	881.4	872.2	857.7	857.7
52.5°	507.2	649.5	779.9	799.7	828.7	837.9	827.4	818.1	802.3	795.7	790.5
55°	470.3	582.3	699.6	739.1	769.4	781.2	761.5	752.3	728.6	724.6	722.0
57.5°	462.4	484.8	625.8	675.9	712.7	711.4	699.6	682.4	662.7	658.7	657.4
60°	424.2	350.4	546.7	606.0	644.2	640.3	629.7	613.9	595.5	592.9	590.2
62.5°	384.7	254.3	457.2	524.3	578.4	577.0	567.8	544.1	530.9	524.3	519.1
65°	326.7	213.4	325.4	436.1	513.8	516.4	496.7	479.6	465.1	457.2	455.8
67.5°	249.0	173.9	220.0	363.6	451.9	449.3	424.2	416.3	397.9	393.9	386.0
70°	184.4	115.9	152.8	295.1	391.3	384.7	364.9	355.7	338.6	329.4	324.1
72.5°	152.8	93.5	112.0	229.2	329.4	321.5	304.3	293.8	279.3	271.4	266.1
75°	123.8	98.8	85.6	170.0	267.4	262.2	246.4	235.8	224.0	213.4	214.7
77.5°	90.9	92.2	68.5	125.2	212.1	204.2	195.0	181.8	176.5	166.0	166.0
80°	68.5	72.5	51.4	85.6	152.8	152.8	144.9	135.7	126.5	121.2	121.2
82.5°	46.1	46.1	38.2	54.0	104.1	100.1	94.9	92.2	87.0	84.3	84.3
85°	21.1	26.3	23.7	32.9	56.7	59.3	59.3	56.7	55.3	52.7	54.0
87.5°	6.6	11.9	14.5	18.4	29.0	30.3	31.6	31.6	31.6	32.9	32.9
90°	5.4	9.8	14.2	15.4	24.2	35.8	41.6	37.0	27.8	20.8	20.8
92.5°	22.0	59.2	96.4	105.7	148.7	205.9	234.5	205.5	147.6	104.1	100.0
95°	52.6	120.8	189.0	206.0	365.9	579.0	685.5	611.7	464.1	353.4	340.9
97.5°	91.0	151.2	211.3	226.3	492.8	848.2	1025.9	979.2	885.9	815.9	792.1
100°	120.6	175.1	229.7	243.3	539.0	933.3	1130.5	1133.9	1140.7	1145.8	1117.4
102.5°	145.8	196.7	247.6	260.3	560.3	960.2	1160.1	1219.5	1338.4	1427.5	1403.2
105°	188.5	231.6	274.7	285.5	576.0	963.2	1156.8	1290.0	1556.4	1756.3	1743.2
107.5°	232.3	272.5	312.8	322.8	578.9	920.3	1091.0	1276.9	1648.5	1927.3	1930.4
110°	261.9	298.2	334.5	343.6	574.5	882.3	1036.2	1243.9	1659.5	1971.1	1984.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	291.0	325.6	360.2	368.8	574.7	849.1	986.3	1199.0	1624.2	1943.2	1964.1
115°	334.8	366.7	398.6	406.6	579.9	811.0	926.6	1131.4	1541.2	1848.4	1877.5
117.5°	378.1	407.1	436.1	443.3	590.7	787.2	885.5	1070.4	1440.1	1717.3	1749.6
120°	403.3	430.6	457.9	464.7	599.5	779.2	869.1	1038.0	1375.8	1629.2	1660.4
122.5°	428.0	455.5	483.1	489.9	612.1	775.0	856.5	1008.6	1312.8	1540.9	1571.8
125°	465.8	490.9	516.0	522.2	629.1	771.6	842.8	972.0	1230.4	1424.3	1452.7
127.5°	496.5	521.8	547.2	553.5	646.1	769.6	831.3	942.2	1164.1	1330.5	1354.5
130°	512.9	540.2	567.5	574.3	658.6	770.8	826.9	925.6	1123.2	1271.3	1293.5
132.5°	529.9	557.2	584.4	591.3	668.6	771.6	823.1	911.5	1088.3	1220.9	1240.8
135°	555.1	579.9	604.8	611.0	679.5	770.8	816.5	890.5	1038.6	1149.7	1166.8
137.5°	580.8	605.4	630.1	636.2	696.0	775.6	815.4	878.0	1003.2	1097.1	1111.1
140°	602.3	624.9	647.6	653.2	706.0	776.3	811.6	865.7	973.8	1054.8	1067.9
142.5°	618.7	639.7	660.6	665.8	714.4	779.1	811.6	859.1	954.0	1025.2	1036.5
145°	643.9	662.2	680.4	685.0	725.4	779.2	806.1	844.9	922.7	980.9	989.4
147.5°	669.1	686.8	704.6	709.1	741.4	784.5	806.1	836.7	897.8	943.6	950.7
150°	685.5	701.6	717.7	721.7	749.8	787.3	806.1	831.9	883.5	922.2	927.9
152.5°	702.6	714.8	726.9	730.0	755.3	789.2	806.1	828.2	872.2	905.3	909.6
155°	727.8	736.7	745.7	748.0	767.4	793.2	806.1	823.7	858.7	885.0	887.9
157.5°	746.4	755.2	763.9	766.1	779.4	797.2	806.1	819.7	847.0	867.5	869.5
160°	758.9	765.8	772.6	774.3	784.9	799.1	806.1	817.8	841.1	858.7	859.9
162.5°	771.6	776.7	781.8	783.1	790.7	801.0	806.1	815.9	835.7	850.5	851.5
165°	785.3	789.9	794.5	795.7	799.2	803.8	806.1	813.1	827.3	837.9	839.0
167.5°	797.8	800.0	802.2	802.8	805.7	809.6	811.6	816.2	825.4	832.4	832.9
170°	806.1	808.3	810.5	811.0	811.2	811.5	811.6	816.2	825.4	832.4	832.4
172.5°	810.5	810.9	811.5	811.6	811.6	811.6	811.6	815.2	822.5	828.0	827.5
175°	816.5	816.5	816.5	816.5	814.8	812.6	811.6	813.8	818.5	822.0	822.0
177.5°	816.5	816.5	816.5	816.5	815.2	813.6	812.7	814.5	818.1	820.9	820.3
180°	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1428.1	1424.2	1428.1	1425.5	1426.8	1422.8	1411.0	1407.0	1411.0	1414.9	1414.9
5°	1445.2	1442.6	1445.2	1445.2	1443.9	1441.3	1428.1	1425.5	1428.1	1429.4	1426.8
7.5°	1450.5	1446.6	1450.5	1447.9	1447.9	1445.2	1432.1	1429.4	1430.8	1434.7	1430.8
10°	1450.5	1446.6	1450.5	1449.2	1447.9	1445.2	1432.1	1426.8	1426.8	1430.8	1426.8
12.5°	1443.9	1441.3	1443.9	1441.3	1441.3	1438.7	1425.5	1420.2	1421.5	1422.8	1417.6
15°	1433.4	1429.4	1433.4	1430.8	1432.1	1428.1	1413.6	1408.4	1408.4	1411.0	1401.8
17.5°	1417.6	1412.3	1417.6	1416.3	1414.9	1412.3	1399.1	1393.9	1392.5	1393.9	1387.3
20°	1399.1	1395.2	1399.1	1397.8	1397.8	1392.5	1379.4	1372.8	1372.8	1372.8	1366.2
22.5°	1370.1	1366.2	1370.1	1372.8	1372.8	1371.5	1359.6	1350.4	1347.8	1347.8	1339.8
25°	1337.2	1333.3	1337.2	1337.2	1335.9	1337.2	1333.3	1328.0	1324.0	1320.1	1312.2
27.5°	1305.6	1303.0	1305.6	1303.0	1305.6	1301.6	1300.3	1299.0	1293.7	1289.8	1279.2
30°	1274.0	1271.3	1274.0	1271.3	1268.7	1266.1	1259.5	1256.8	1262.1	1259.5	1242.4
32.5°	1234.5	1231.8	1234.5	1234.5	1231.8	1231.8	1221.3	1217.3	1218.6	1226.5	1210.7
35°	1193.6	1189.7	1193.6	1192.3	1193.6	1189.7	1183.1	1181.8	1176.5	1185.7	1173.8
37.5°	1146.2	1142.2	1146.2	1146.2	1146.2	1148.8	1143.5	1139.6	1131.7	1143.5	1134.3
40°	1097.4	1092.2	1097.4	1096.1	1097.4	1100.1	1097.4	1094.8	1086.9	1096.1	1088.2
42.5°	1042.1	1040.8	1042.1	1043.4	1043.4	1048.7	1052.6	1047.4	1044.7	1038.2	1043.4
45°	982.8	980.2	982.8	985.5	986.8	989.4	1001.3	1001.3	997.3	986.8	994.7
47.5°	919.6	913.0	919.6	927.5	927.5	931.4	943.3	952.5	945.9	932.8	936.7
50°	852.4	853.7	852.4	857.7	857.7	872.2	881.4	890.6	897.2	881.4	862.9
52.5°	786.5	785.2	786.5	790.5	795.7	802.3	818.1	827.4	837.9	828.7	799.7
55°	720.6	723.3	720.6	722.0	724.6	728.6	752.3	761.5	781.2	769.4	739.1
57.5°	654.8	650.8	654.8	657.4	658.7	662.7	682.4	699.6	711.4	712.7	675.9
60°	578.4	573.1	578.4	590.2	592.9	595.5	613.9	629.7	640.3	644.2	606.0
62.5°	511.2	501.9	511.2	519.1	524.3	530.9	544.1	567.8	577.0	578.4	524.3
65°	440.0	436.1	440.0	455.8	457.2	465.1	479.6	496.7	516.4	513.8	436.1
67.5°	375.5	375.5	375.5	386.0	393.9	397.9	416.3	424.2	449.3	451.9	363.6
70°	316.2	314.9	316.2	324.1	329.4	338.6	355.7	364.9	384.7	391.3	295.1
72.5°	259.5	258.2	259.5	266.1	271.4	279.3	293.8	304.3	321.5	329.4	229.2
75°	209.5	206.8	209.5	214.7	213.4	224.0	235.8	246.4	262.2	267.4	170.0
77.5°	160.7	160.7	160.7	166.0	166.0	176.5	181.8	195.0	204.2	212.1	125.2
80°	119.9	118.6	119.9	121.2	121.2	126.5	135.7	144.9	152.8	152.8	85.6
82.5°	84.3	81.7	84.3	84.3	84.3	87.0	92.2	94.9	100.1	104.1	54.0
85°	52.7	52.7	52.7	54.0	52.7	55.3	56.7	59.3	59.3	56.7	32.9
87.5°	34.3	32.9	34.3	32.9	32.9	31.6	31.6	31.6	30.3	29.0	18.4
90°	20.8	20.8	20.8	20.8	20.8	27.8	37.0	41.6	35.8	24.2	15.4
92.5°	83.4	66.8	83.4	100.0	104.1	147.6	205.5	234.5	205.9	148.7	105.7
95°	290.7	240.6	290.7	340.9	353.4	464.1	611.7	685.5	579.0	365.9	206.0
97.5°	696.6	601.1	696.6	792.1	815.9	885.9	979.2	1025.9	848.2	492.8	226.3
100°	1003.6	889.9	1003.6	1117.4	1145.8	1140.7	1133.9	1130.5	933.3	539.0	243.3
102.5°	1305.7	1208.3	1305.7	1403.2	1427.5	1338.4	1219.5	1160.1	960.2	560.3	260.3
105°	1690.8	1638.5	1690.8	1743.2	1756.3	1556.4	1290.0	1156.8	963.2	576.0	285.5
107.5°	1943.2	1955.8	1943.2	1930.4	1927.3	1648.5	1276.9	1091.0	920.3	578.9	322.8
110°	2039.3	2093.9	2039.3	1984.7	1971.1	1659.5	1243.9	1036.2	882.3	574.5	343.6





TEST NUMBER: P935161

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2047.8	2131.6	2047.8	1964.1	1943.2	1624.2	1199.0	986.3	849.1	574.7	368.8
115°	1993.6	2109.8	1993.6	1877.5	1848.4	1541.2	1131.4	926.6	811.0	579.9	406.6
117.5°	1878.4	2007.3	1878.4	1749.6	1717.3	1440.1	1070.4	885.5	787.2	590.7	443.3
120°	1785.7	1910.8	1785.7	1660.4	1629.2	1375.8	1038.0	869.1	779.2	599.5	464.7
122.5°	1695.3	1818.8	1695.3	1571.8	1540.9	1312.8	1008.6	856.5	775.0	612.1	489.9
125°	1566.4	1680.1	1566.4	1452.7	1424.3	1230.4	972.0	842.8	771.6	629.1	522.2
127.5°	1450.5	1546.4	1450.5	1354.5	1330.5	1164.1	942.2	831.3	769.6	646.1	553.5
130°	1382.2	1470.8	1382.2	1293.5	1271.3	1123.2	925.6	826.9	770.8	658.6	574.3
132.5°	1320.2	1399.6	1320.2	1240.8	1220.9	1088.3	911.5	823.1	771.6	668.6	591.3
135°	1235.2	1303.7	1235.2	1166.8	1149.7	1038.6	890.5	816.5	770.8	679.5	611.0
137.5°	1167.1	1223.1	1167.1	1111.1	1097.1	1003.2	878.0	815.4	775.6	696.0	636.2
140°	1120.4	1172.7	1120.4	1067.9	1054.8	973.8	865.7	811.6	776.3	706.0	653.2
142.5°	1081.6	1126.7	1081.6	1036.5	1025.2	954.0	859.1	811.6	779.1	714.4	665.8
145°	1023.6	1057.7	1023.6	989.4	980.9	922.7	844.9	806.1	779.2	725.4	685.0
147.5°	979.0	1007.2	979.0	950.7	943.6	897.8	836.7	806.1	784.5	741.4	709.1
150°	950.8	973.8	950.8	927.9	922.2	883.5	831.9	806.1	787.3	749.8	721.7
152.5°	926.9	944.2	926.9	909.6	905.3	872.2	828.2	806.1	789.2	755.3	730.0
155°	899.3	910.7	899.3	887.9	885.0	858.7	823.7	806.1	793.2	767.4	748.0
157.5°	877.5	885.5	877.5	869.5	867.5	847.0	819.7	806.1	797.2	779.4	766.1
160°	864.5	869.1	864.5	859.9	858.7	841.1	817.8	806.1	799.1	784.9	774.3
162.5°	855.9	860.3	855.9	851.5	850.5	835.7	815.9	806.1	801.0	790.7	783.1
165°	843.7	848.3	843.7	839.0	837.9	827.3	813.1	806.1	803.8	799.2	795.7
167.5°	834.8	836.8	834.8	832.9	832.4	825.4	816.2	811.6	809.6	805.7	802.8
170°	832.4	832.4	832.4	832.4	832.4	825.4	816.2	811.6	811.5	811.2	811.0
172.5°	825.9	824.2	825.9	827.5	828.0	822.5	815.2	811.6	811.6	811.6	811.6
175°	822.0	822.0	822.0	822.0	822.0	818.5	813.8	811.6	812.6	814.8	816.5
177.5°	818.4	816.5	818.4	820.3	820.9	818.1	814.5	812.7	813.6	815.2	816.5
180°	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5



TEST NUMBER: P935161

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1412.3	1404.4	1404.4	1391.2	1386.0	1382.0	1375.4	1355.7	1350.4	1345.1	1353.0
5°	1424.2	1409.7	1399.1	1375.4	1355.7	1347.8	1322.7	1275.3	1243.7	1220.0	1206.8
7.5°	1426.8	1408.4	1388.6	1351.7	1304.3	1283.2	1206.8	1119.8	1096.1	1075.0	1061.9
10°	1424.2	1403.1	1375.4	1320.1	1208.1	1171.2	1094.8	1038.2	1023.7	1019.7	1023.7
12.5°	1414.9	1395.2	1357.0	1264.8	1108.0	1082.9	1038.2	1005.2	1002.6	1009.2	1044.7
15°	1399.1	1380.7	1335.9	1191.0	1052.6	1034.2	1002.6	990.7	1005.2	1051.3	1158.0
17.5°	1383.3	1362.2	1306.9	1118.5	1010.5	997.3	974.9	998.6	1080.3	1142.2	1177.8
20°	1362.2	1337.2	1274.0	1065.8	980.2	968.3	957.8	1064.5	1126.4	1148.8	1168.6
22.5°	1337.2	1310.9	1229.2	1028.9	948.6	939.3	945.9	1101.4	1126.4	1142.2	1159.4
25°	1304.3	1281.9	1176.5	999.9	923.5	913.0	938.0	1097.4	1111.9	1115.9	1150.1
27.5°	1274.0	1245.0	1121.2	973.6	893.2	889.3	944.6	1080.3	1090.8	1094.8	1131.7
30°	1237.1	1193.6	1059.2	945.9	861.6	860.3	945.9	1059.2	1056.6	1067.1	1104.0
32.5°	1198.9	1117.2	989.4	911.7	831.3	830.0	936.7	1027.6	1025.0	1039.5	1067.1
35°	1163.3	1057.9	894.5	872.2	793.1	794.4	914.3	990.7	992.0	1005.2	1022.3
37.5°	1126.4	1006.5	790.5	828.7	756.2	756.2	884.0	956.5	953.8	957.8	981.5
40°	1082.9	926.2	698.2	772.0	722.0	718.0	847.1	919.6	910.4	909.0	942.0
42.5°	1036.8	837.9	629.7	696.9	682.4	677.2	802.3	874.8	857.7	861.6	903.8
45°	986.8	814.2	577.0	588.9	641.6	637.6	753.6	823.4	811.6	822.1	865.6
47.5°	936.7	766.8	559.9	488.8	598.1	596.8	699.6	773.3	766.8	777.3	823.4
50°	868.2	714.1	558.6	418.9	549.4	554.6	635.0	724.6	724.6	733.8	782.6
52.5°	779.9	649.5	507.2	379.4	492.7	508.5	578.4	682.4	685.1	694.3	737.8
55°	699.6	582.3	470.3	349.1	425.5	459.8	523.0	639.0	644.2	653.5	693.0
57.5°	625.8	484.8	462.4	313.6	363.6	396.6	474.3	596.8	599.4	607.3	645.6
60°	546.7	350.4	424.2	275.3	309.6	334.6	429.5	546.7	556.0	561.2	594.2
62.5°	457.2	254.3	384.7	249.0	283.3	288.5	392.6	499.3	511.2	515.1	534.9
65°	325.4	213.4	326.7	226.6	255.6	256.9	353.1	450.6	461.1	467.7	482.2
67.5°	220.0	173.9	249.0	205.5	234.5	235.8	314.9	393.9	408.4	413.7	422.9
70°	152.8	115.9	184.4	183.1	210.8	213.4	274.0	342.5	355.7	359.7	364.9
72.5°	112.0	93.5	152.8	164.7	185.8	188.4	231.9	284.6	297.7	301.7	304.3
75°	85.6	98.8	123.8	143.6	158.1	159.4	189.7	231.9	241.1	243.7	245.0
77.5°	68.5	92.2	90.9	115.9	129.1	126.5	148.9	179.2	187.1	187.1	187.1
80°	51.4	72.5	68.5	83.0	94.9	92.2	106.7	127.8	130.4	133.1	131.7
82.5°	38.2	46.1	46.1	52.7	63.2	60.6	71.1	83.0	83.0	83.0	85.6
85°	23.7	26.3	21.1	27.7	35.6	34.3	39.5	44.8	46.1	46.1	43.5
87.5°	14.5	11.9	6.6	10.5	15.8	15.8	18.4	19.8	18.4	18.4	18.4
90°	14.2	9.8	5.4	9.8	14.2	15.4	24.2	35.8	41.6	37.0	27.8
92.5°	96.4	59.2	22.0	59.2	96.4	105.7	148.7	205.9	234.5	205.5	147.6
95°	189.0	120.8	52.6	120.8	189.0	206.0	365.9	579.0	685.5	611.7	464.1
97.5°	211.3	151.2	91.0	151.2	211.3	226.3	492.8	848.2	1025.9	979.2	885.9
100°	229.7	175.1	120.6	175.1	229.7	243.3	539.0	933.3	1130.5	1133.9	1140.7
102.5°	247.6	196.7	145.8	196.7	247.6	260.3	560.3	960.2	1160.1	1219.5	1338.4
105°	274.7	231.6	188.5	231.6	274.7	285.5	576.0	963.2	1156.8	1290.0	1556.4
107.5°	312.8	272.5	232.3	272.5	312.8	322.8	578.9	920.3	1091.0	1276.9	1648.5
110°	334.5	298.2	261.9	298.2	334.5	343.6	574.5	882.3	1036.2	1243.9	1659.5



TEST NUMBER: P935161

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	360.2	325.6	291.0	325.6	360.2	368.8	574.7	849.1	986.3	1199.0	1624.2
115°	398.6	366.7	334.8	366.7	398.6	406.6	579.9	811.0	926.6	1131.4	1541.2
117.5°	436.1	407.1	378.1	407.1	436.1	443.3	590.7	787.2	885.5	1070.4	1440.1
120°	457.9	430.6	403.3	430.6	457.9	464.7	599.5	779.2	869.1	1038.0	1375.8
122.5°	483.1	455.5	428.0	455.5	483.1	489.9	612.1	775.0	856.5	1008.6	1312.8
125°	516.0	490.9	465.8	490.9	516.0	522.2	629.1	771.6	842.8	972.0	1230.4
127.5°	547.2	521.8	496.5	521.8	547.2	553.5	646.1	769.6	831.3	942.2	1164.1
130°	567.5	540.2	512.9	540.2	567.5	574.3	658.6	770.8	826.9	925.6	1123.2
132.5°	584.4	557.2	529.9	557.2	584.4	591.3	668.6	771.6	823.1	911.5	1088.3
135°	604.8	579.9	555.1	579.9	604.8	611.0	679.5	770.8	816.5	890.5	1038.6
137.5°	630.1	605.4	580.8	605.4	630.1	636.2	696.0	775.6	815.4	878.0	1003.2
140°	647.6	624.9	602.3	624.9	647.6	653.2	706.0	776.3	811.6	865.7	973.8
142.5°	660.6	639.7	618.7	639.7	660.6	665.8	714.4	779.1	811.6	859.1	954.0
145°	680.4	662.2	643.9	662.2	680.4	685.0	725.4	779.2	806.1	844.9	922.7
147.5°	704.6	686.8	669.1	686.8	704.6	709.1	741.4	784.5	806.1	836.7	897.8
150°	717.7	701.6	685.5	701.6	717.7	721.7	749.8	787.3	806.1	831.9	883.5
152.5°	726.9	714.8	702.6	714.8	726.9	730.0	755.3	789.2	806.1	828.2	872.2
155°	745.7	736.7	727.8	736.7	745.7	748.0	767.4	793.2	806.1	823.7	858.7
157.5°	763.9	755.2	746.4	755.2	763.9	766.1	779.4	797.2	806.1	819.7	847.0
160°	772.6	765.8	758.9	765.8	772.6	774.3	784.9	799.1	806.1	817.8	841.1
162.5°	781.8	776.7	771.6	776.7	781.8	783.1	790.7	801.0	806.1	815.9	835.7
165°	794.5	789.9	785.3	789.9	794.5	795.7	799.2	803.8	806.1	813.1	827.3
167.5°	802.2	800.0	797.8	800.0	802.2	802.8	805.7	809.6	811.6	816.2	825.4
170°	810.5	808.3	806.1	808.3	810.5	811.0	811.2	811.5	811.6	816.2	825.4
172.5°	811.5	810.9	810.5	810.9	811.5	811.6	811.6	811.6	811.6	815.2	822.5
175°	816.5	816.5	816.5	816.5	816.5	816.5	814.8	812.6	811.6	813.8	818.5
177.5°	816.5	816.5	816.5	816.5	816.5	816.5	815.2	813.6	812.7	814.5	818.1
180°	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5



TEST NUMBER: P935161

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1343.8	1339.8	1345.1	1330.6	1345.1	1339.8	1343.8	1353.0	1345.1	1350.4	1355.7
5°	1179.1	1172.5	1151.5	1134.3	1151.5	1172.5	1179.1	1206.8	1220.0	1243.7	1275.3
7.5°	1054.0	1048.7	1043.4	1032.9	1043.4	1048.7	1054.0	1061.9	1075.0	1096.1	1119.8
10°	1026.3	1027.6	1035.5	1034.2	1035.5	1027.6	1026.3	1023.7	1019.7	1023.7	1038.2
12.5°	1097.4	1109.3	1152.8	1150.1	1152.8	1109.3	1097.4	1044.7	1009.2	1002.6	1005.2
15°	1179.1	1183.1	1192.3	1193.6	1192.3	1183.1	1179.1	1158.0	1051.3	1005.2	990.7
17.5°	1187.0	1188.3	1194.9	1194.9	1194.9	1188.3	1187.0	1177.8	1142.2	1080.3	998.6
20°	1180.4	1183.1	1196.2	1198.9	1196.2	1183.1	1180.4	1168.6	1148.8	1126.4	1064.5
22.5°	1177.8	1183.1	1193.6	1192.3	1193.6	1183.1	1177.8	1159.4	1142.2	1126.4	1101.4
25°	1164.6	1164.6	1165.9	1167.3	1165.9	1164.6	1164.6	1150.1	1115.9	1111.9	1097.4
27.5°	1137.0	1139.6	1147.5	1146.2	1147.5	1139.6	1137.0	1131.7	1094.8	1090.8	1080.3
30°	1111.9	1109.3	1102.7	1097.4	1102.7	1109.3	1111.9	1104.0	1067.1	1056.6	1059.2
32.5°	1069.8	1063.2	1056.6	1052.6	1056.6	1063.2	1069.8	1067.1	1039.5	1025.0	1027.6
35°	1019.7	1021.0	1019.7	1015.8	1019.7	1021.0	1019.7	1022.3	1005.2	992.0	990.7
37.5°	984.1	986.8	985.5	980.2	985.5	986.8	984.1	981.5	957.8	953.8	956.5
40°	947.2	948.6	947.2	943.3	947.2	948.6	947.2	942.0	909.0	910.4	919.6
42.5°	911.7	910.4	906.4	903.8	906.4	910.4	911.7	903.8	861.6	857.7	874.8
45°	870.8	872.2	864.2	860.3	864.2	872.2	870.8	865.6	822.1	811.6	823.4
47.5°	830.0	830.0	823.4	819.5	823.4	830.0	830.0	823.4	777.3	766.8	773.3
50°	786.5	785.2	776.0	774.7	776.0	785.2	786.5	782.6	733.8	724.6	724.6
52.5°	736.5	736.5	737.8	740.4	737.8	736.5	736.5	737.8	694.3	685.1	682.4
55°	693.0	694.3	703.5	706.2	703.5	694.3	693.0	693.0	653.5	644.2	639.0
57.5°	648.2	648.2	654.8	654.8	654.8	648.2	648.2	645.6	607.3	599.4	596.8
60°	596.8	599.4	604.7	603.4	604.7	599.4	596.8	594.2	561.2	556.0	546.7
62.5°	542.8	545.4	546.7	544.1	546.7	545.4	542.8	534.9	515.1	511.2	499.3
65°	486.1	488.8	490.1	487.5	490.1	488.8	486.1	482.2	467.7	461.1	450.6
67.5°	428.2	426.9	425.5	430.8	425.5	426.9	428.2	422.9	413.7	408.4	393.9
70°	368.9	368.9	367.6	370.2	367.6	368.9	368.9	364.9	359.7	355.7	342.5
72.5°	305.6	304.3	309.6	305.6	309.6	304.3	305.6	304.3	301.7	297.7	284.6
75°	243.7	246.4	243.7	247.7	243.7	246.4	243.7	245.0	243.7	241.1	231.9
77.5°	185.8	188.4	185.8	185.8	185.8	188.4	185.8	187.1	187.1	187.1	179.2
80°	131.7	130.4	130.4	129.1	130.4	130.4	131.7	131.7	133.1	130.4	127.8
82.5°	84.3	83.0	83.0	85.6	83.0	83.0	84.3	85.6	83.0	83.0	83.0
85°	46.1	47.4	44.8	44.8	44.8	47.4	46.1	43.5	46.1	46.1	44.8
87.5°	17.1	15.8	15.8	15.8	15.8	15.8	17.1	18.4	18.4	18.4	19.8
90°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	27.8	37.0	41.6	35.8
92.5°	104.1	100.0	83.4	66.8	83.4	100.0	104.1	147.6	205.5	234.5	205.9
95°	353.4	340.9	290.7	240.6	290.7	340.9	353.4	464.1	611.7	685.5	579.0
97.5°	815.9	792.1	696.6	601.1	696.6	792.1	815.9	885.9	979.2	1025.9	848.2
100°	1145.8	1117.4	1003.6	889.9	1003.6	1117.4	1145.8	1140.7	1133.9	1130.5	933.3
102.5°	1427.5	1403.2	1305.7	1208.3	1305.7	1403.2	1427.5	1338.4	1219.5	1160.1	960.2
105°	1756.3	1743.2	1690.8	1638.5	1690.8	1743.2	1756.3	1556.4	1290.0	1156.8	963.2
107.5°	1927.3	1930.4	1943.2	1955.8	1943.2	1930.4	1927.3	1648.5	1276.9	1091.0	920.3
110°	1971.1	1984.7	2039.3	2093.9	2039.3	1984.7	1971.1	1659.5	1243.9	1036.2	882.3



TEST NUMBER: P935161

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1943.2	1964.1	2047.8	2131.6	2047.8	1964.1	1943.2	1624.2	1199.0	986.3	849.1
115°	1848.4	1877.5	1993.6	2109.8	1993.6	1877.5	1848.4	1541.2	1131.4	926.6	811.0
117.5°	1717.3	1749.6	1878.4	2007.3	1878.4	1749.6	1717.3	1440.1	1070.4	885.5	787.2
120°	1629.2	1660.4	1785.7	1910.8	1785.7	1660.4	1629.2	1375.8	1038.0	869.1	779.2
122.5°	1540.9	1571.8	1695.3	1818.8	1695.3	1571.8	1540.9	1312.8	1008.6	856.5	775.0
125°	1424.3	1452.7	1566.4	1680.1	1566.4	1452.7	1424.3	1230.4	972.0	842.8	771.6
127.5°	1330.5	1354.5	1450.5	1546.4	1450.5	1354.5	1330.5	1164.1	942.2	831.3	769.6
130°	1271.3	1293.5	1382.2	1470.8	1382.2	1293.5	1271.3	1123.2	925.6	826.9	770.8
132.5°	1220.9	1240.8	1320.2	1399.6	1320.2	1240.8	1220.9	1088.3	911.5	823.1	771.6
135°	1149.7	1166.8	1235.2	1303.7	1235.2	1166.8	1149.7	1038.6	890.5	816.5	770.8
137.5°	1097.1	1111.1	1167.1	1223.1	1167.1	1111.1	1097.1	1003.2	878.0	815.4	775.6
140°	1054.8	1067.9	1120.4	1172.7	1120.4	1067.9	1054.8	973.8	865.7	811.6	776.3
142.5°	1025.2	1036.5	1081.6	1126.7	1081.6	1036.5	1025.2	954.0	859.1	811.6	779.1
145°	980.9	989.4	1023.6	1057.7	1023.6	989.4	980.9	922.7	844.9	806.1	779.2
147.5°	943.6	950.7	979.0	1007.2	979.0	950.7	943.6	897.8	836.7	806.1	784.5
150°	922.2	927.9	950.8	973.8	950.8	927.9	922.2	883.5	831.9	806.1	787.3
152.5°	905.3	909.6	926.9	944.2	926.9	909.6	905.3	872.2	828.2	806.1	789.2
155°	885.0	887.9	899.3	910.7	899.3	887.9	885.0	858.7	823.7	806.1	793.2
157.5°	867.5	869.5	877.5	885.5	877.5	869.5	867.5	847.0	819.7	806.1	797.2
160°	858.7	859.9	864.5	869.1	864.5	859.9	858.7	841.1	817.8	806.1	799.1
162.5°	850.5	851.5	855.9	860.3	855.9	851.5	850.5	835.7	815.9	806.1	801.0
165°	837.9	839.0	843.7	848.3	843.7	839.0	837.9	827.3	813.1	806.1	803.8
167.5°	832.4	832.9	834.8	836.8	834.8	832.9	832.4	825.4	816.2	811.6	809.6
170°	832.4	832.4	832.4	832.4	832.4	832.4	832.4	825.4	816.2	811.6	811.5
172.5°	828.0	827.5	825.9	824.2	825.9	827.5	828.0	822.5	815.2	811.6	811.6
175°	822.0	822.0	822.0	822.0	822.0	822.0	822.0	818.5	813.8	811.6	812.6
177.5°	820.9	820.3	818.4	816.5	818.4	820.3	820.9	818.1	814.5	812.7	813.6
180°	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5	816.5



TEST NUMBER: P935161

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1392.5	1392.5	1392.5	1392.5	1392.5
2.5°	1375.4	1382.0	1386.0	1391.2	1404.4
5°	1322.7	1347.8	1355.7	1375.4	1399.1
7.5°	1206.8	1283.2	1304.3	1351.7	1388.6
10°	1094.8	1171.2	1208.1	1320.1	1375.4
12.5°	1038.2	1082.9	1108.0	1264.8	1357.0
15°	1002.6	1034.2	1052.6	1191.0	1335.9
17.5°	974.9	997.3	1010.5	1118.5	1306.9
20°	957.8	968.3	980.2	1065.8	1274.0
22.5°	945.9	939.3	948.6	1028.9	1229.2
25°	938.0	913.0	923.5	999.9	1176.5
27.5°	944.6	889.3	893.2	973.6	1121.2
30°	945.9	860.3	861.6	945.9	1059.2
32.5°	936.7	830.0	831.3	911.7	989.4
35°	914.3	794.4	793.1	872.2	894.5
37.5°	884.0	756.2	756.2	828.7	790.5
40°	847.1	718.0	722.0	772.0	698.2
42.5°	802.3	677.2	682.4	696.9	629.7
45°	753.6	637.6	641.6	588.9	577.0
47.5°	699.6	596.8	598.1	488.8	559.9
50°	635.0	554.6	549.4	418.9	558.6
52.5°	578.4	508.5	492.7	379.4	507.2
55°	523.0	459.8	425.5	349.1	470.3
57.5°	474.3	396.6	363.6	313.6	462.4
60°	429.5	334.6	309.6	275.3	424.2
62.5°	392.6	288.5	283.3	249.0	384.7
65°	353.1	256.9	255.6	226.6	326.7
67.5°	314.9	235.8	234.5	205.5	249.0
70°	274.0	213.4	210.8	183.1	184.4
72.5°	231.9	188.4	185.8	164.7	152.8
75°	189.7	159.4	158.1	143.6	123.8
77.5°	148.9	126.5	129.1	115.9	90.9
80°	106.7	92.2	94.9	83.0	68.5
82.5°	71.1	60.6	63.2	52.7	46.1
85°	39.5	34.3	35.6	27.7	21.1
87.5°	18.4	15.8	15.8	10.5	6.6
90°	24.2	15.4	14.2	9.8	5.4
92.5°	148.7	105.7	96.4	59.2	22.0
95°	365.9	206.0	189.0	120.8	52.6
97.5°	492.8	226.3	211.3	151.2	91.0
100°	539.0	243.3	229.7	175.1	120.6
102.5°	560.3	260.3	247.6	196.7	145.8
105°	576.0	285.5	274.7	231.6	188.5
107.5°	578.9	322.8	312.8	272.5	232.3
110°	574.5	343.6	334.5	298.2	261.9



TEST NUMBER: P935161

CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	574.7	368.8	360.2	325.6	291.0
115°	579.9	406.6	398.6	366.7	334.8
117.5°	590.7	443.3	436.1	407.1	378.1
120°	599.5	464.7	457.9	430.6	403.3
122.5°	612.1	489.9	483.1	455.5	428.0
125°	629.1	522.2	516.0	490.9	465.8
127.5°	646.1	553.5	547.2	521.8	496.5
130°	658.6	574.3	567.5	540.2	512.9
132.5°	668.6	591.3	584.4	557.2	529.9
135°	679.5	611.0	604.8	579.9	555.1
137.5°	696.0	636.2	630.1	605.4	580.8
140°	706.0	653.2	647.6	624.9	602.3
142.5°	714.4	665.8	660.6	639.7	618.7
145°	725.4	685.0	680.4	662.2	643.9
147.5°	741.4	709.1	704.6	686.8	669.1
150°	749.8	721.7	717.7	701.6	685.5
152.5°	755.3	730.0	726.9	714.8	702.6
155°	767.4	748.0	745.7	736.7	727.8
157.5°	779.4	766.1	763.9	755.2	746.4
160°	784.9	774.3	772.6	765.8	758.9
162.5°	790.7	783.1	781.8	776.7	771.6
165°	799.2	795.7	794.5	789.9	785.3
167.5°	805.7	802.8	802.2	800.0	797.8
170°	811.2	811.0	810.5	808.3	806.1
172.5°	811.6	811.6	811.5	810.9	810.5
175°	814.8	816.5	816.5	816.5	816.5
177.5°	815.2	816.5	816.5	816.5	816.5
180°	816.5	816.5	816.5	816.5	816.5



TEST NUMBER: P935161  
 CATALOG NUMBER: SQ4-FA-100U-075D-93050-1D-UNV-STD-W-6-3000K

**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	11.35	12.13	12.38	13.17	14.57	14.17	14.95	15.20	15.99	17.39
	3H	11.82	12.52	12.86	13.57	14.99	15.51	16.21	16.55	17.26	18.68
	4H	12.00	12.67	13.06	13.72	15.15	15.95	16.61	17.00	17.66	19.09
	6H	12.12	12.73	13.18	13.79	15.22	16.23	16.84	17.29	17.89	19.33
	8H	12.12	12.70	13.19	13.77	15.20	16.30	16.88	17.37	17.95	19.38
	12H	12.09	12.64	13.16	13.70	15.16	16.33	16.89	17.41	17.95	19.41
4H	2H	12.37	13.03	13.43	14.08	15.51	14.57	15.23	15.63	16.29	17.71
	3H	13.39	13.94	14.46	15.02	16.46	16.07	16.62	17.14	17.70	19.14
	4H	13.66	14.17	14.74	15.24	16.70	16.59	17.10	17.67	18.17	19.63
	6H	13.78	14.22	14.87	15.31	16.76	16.95	17.38	18.03	18.48	19.93
	8H	13.78	14.19	14.87	15.28	16.75	17.05	17.46	18.14	18.55	20.02
	12H	13.75	14.11	14.85	15.21	16.69	17.10	17.47	18.21	18.57	20.05
8H	4H	14.11	14.51	15.19	15.60	17.07	16.71	17.11	17.79	18.20	19.67
	6H	14.36	14.70	15.47	15.83	17.30	17.14	17.48	18.25	18.60	20.07
	8H	14.41	14.70	15.52	15.81	17.30	17.29	17.58	18.40	18.69	20.18
	12H	14.39	14.64	15.50	15.75	17.28	17.38	17.64	18.50	18.75	20.27
12H	4H	14.11	14.48	15.21	15.57	17.05	16.67	17.04	17.77	18.14	19.61
	6H	14.42	14.72	15.54	15.83	17.32	17.14	17.43	18.25	18.54	20.03
	8H	14.49	14.75	15.60	15.85	17.38	17.29	17.55	18.41	18.66	20.18