

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: P934696

Luminaire Tested: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

**Test Information**

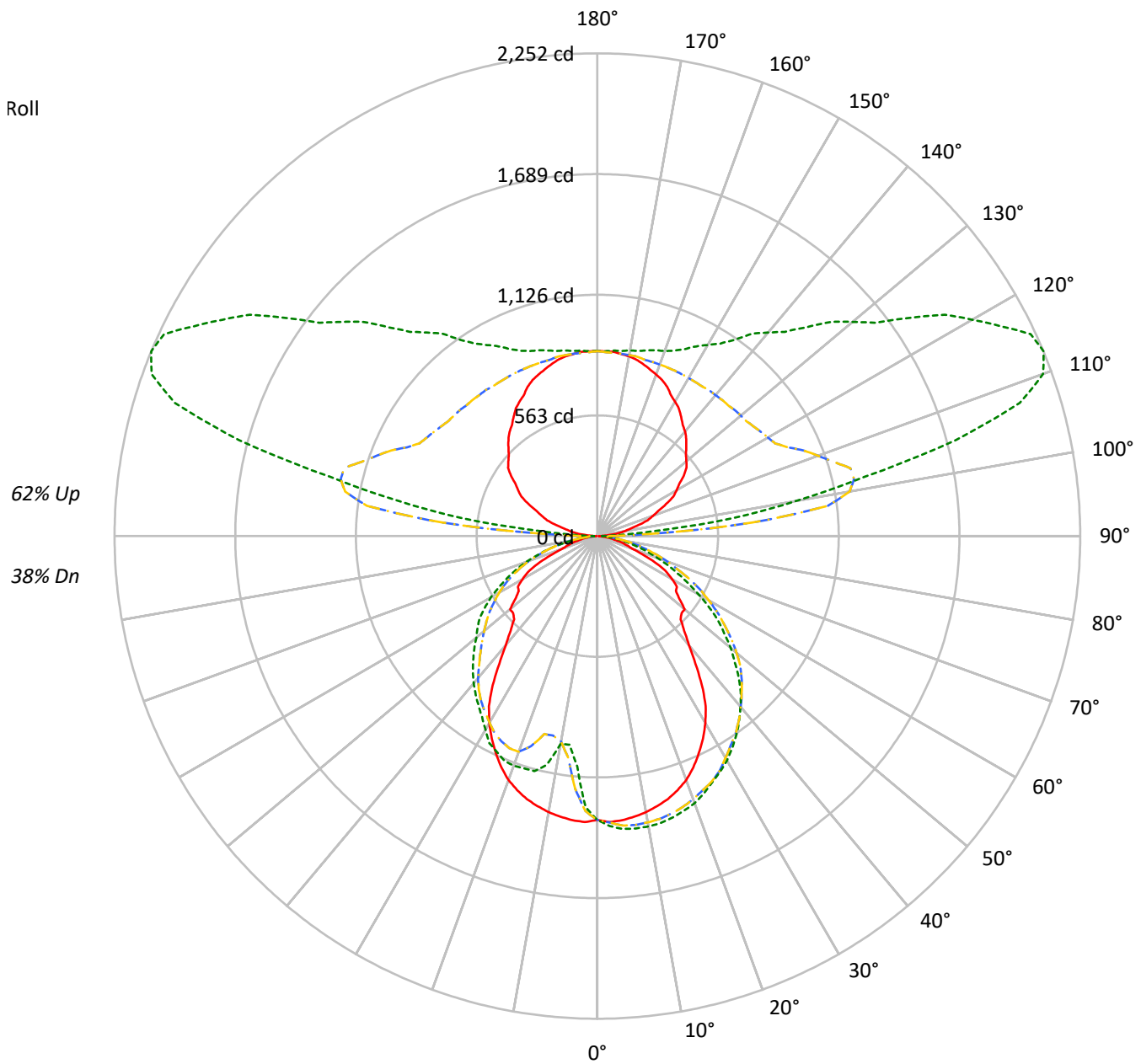
Test Method: LM-79-2019  
Report Number: P934696  
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9029.9 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 68.8  
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	50	30	10	0
RCR																					
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38			38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32			32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27			27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23			23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20			20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17			17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15			15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13			13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12			12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11			11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10			10

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

	0°	90°	180°	270°
0°	6144	6144	6144	6144
5°	6190	6202	6190	4877
10°	6148	6109	6148	4367
15°	6081	5977	6081	4991
20°	5954	5820	5954	5001
25°	5694	5591	5694	4895
30°	5357	5402	5357	4663
35°	4776	5161	4776	4406
40°	3980	4878	3980	4214
45°	3556	4547	3556	3992
50°	3778	4153	3778	3768
55°	3554	3728	3554	3639
60°	3664	3166	3664	3333
65°	3321	2617	3321	2925
70°	2300	2086	2300	2452
75°	2018	1542	2018	1847
80°	1624	1019	1624	1109
85°	936	541	936	459

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5450 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.5	1.3
10°-20°	339.4	3.8
20°-30°	524.6	5.8
30°-40°	626.3	6.9
40°-50°	630.0	7.0
50°-60°	548.1	6.1
60°-70°	388.6	4.3
70°-80°	205.6	2.3
80°-90°	54.5	0.6
90°-100°	420.6	4.7
100°-110°	1105.7	12.2
110°-120°	1146.5	12.7
120°-130°	919.6	10.2
130°-140°	721.6	8.0
140°-150°	553.9	6.1
150°-160°	398.9	4.4
160°-170°	244.0	2.7
170°-180°	82.5	0.9
0°-30°	983.5	10.9
0°-40°	1609.8	17.8
0°-60°	2787.9	30.9
0°-90°	3436.7	38.1
90°-120°	2672.8	29.6
90°-150°	4867.9	53.9
90°-180°	5593.0	61.9
0°-180°	9029.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1324	1324	1324	1324	1324	
5°	1330	1372	1330	1079	1330	126
15°	1270	1359	1270	1135	1270	357
25°	1119	1268	1119	1110	1119	514
35°	851	1131	851	966	851	526
45°	549	932	549	818	549	440
55°	447	688	447	672	447	411
65°	311	415	311	464	311	297
75°	118	197	118	236	118	124
85°	20	50	20	43	20	27
90°	6	22	6	22	6	6
95°	56	254	56	254	56	62
105°	199	1731	199	1731	199	211
115°	354	2229	354	2229	354	349
125°	492	1775	492	1775	492	437
135°	587	1378	587	1378	587	454
145°	680	1118	680	1118	680	426
155°	769	962	769	962	769	353
165°	830	896	830	896	830	234
175°	863	869	863	869	863	82
180°	863	863	863	863	863	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1335.4	1335.4	1343.0	1345.5	1345.5	1341.7	1338.0	1341.7	1353.0	1356.7	1355.5
5°	1330.5	1340.5	1354.3	1356.7	1359.3	1358.0	1355.5	1358.0	1370.6	1373.1	1374.3
7.5°	1320.4	1339.3	1356.7	1360.6	1364.3	1360.6	1359.3	1361.8	1374.3	1376.8	1376.8
10°	1307.9	1334.2	1354.3	1356.7	1360.6	1356.7	1356.7	1361.8	1374.3	1376.8	1378.0
12.5°	1290.3	1326.7	1345.5	1347.9	1353.0	1351.8	1350.5	1355.5	1368.0	1370.6	1370.6
15°	1270.3	1312.9	1330.5	1332.9	1341.7	1339.3	1339.3	1344.2	1358.0	1361.8	1360.6
17.5°	1242.8	1295.4	1315.4	1319.2	1325.4	1324.2	1325.4	1330.5	1343.0	1345.5	1346.7
20°	1211.4	1271.5	1295.4	1299.1	1305.4	1305.4	1305.4	1311.6	1324.2	1329.2	1329.2
22.5°	1168.8	1246.5	1271.5	1274.1	1281.6	1281.6	1284.1	1292.8	1304.1	1305.4	1305.4
25°	1118.7	1219.0	1240.3	1247.7	1255.3	1259.0	1262.8	1267.8	1271.5	1270.3	1271.5
27.5°	1066.2	1183.8	1211.4	1216.4	1226.4	1230.3	1235.2	1236.5	1237.7	1241.5	1239.0
30°	1007.2	1135.0	1176.4	1181.4	1197.7	1200.2	1195.1	1197.7	1203.9	1206.4	1209.0
32.5°	940.8	1062.3	1140.0	1151.3	1166.4	1158.8	1157.6	1161.3	1171.3	1171.3	1173.9
35°	850.6	1006.0	1106.2	1116.2	1127.5	1118.7	1123.8	1125.0	1131.3	1135.0	1133.8
37.5°	751.7	957.2	1071.1	1078.7	1087.5	1076.2	1083.6	1087.5	1092.4	1089.9	1089.9
40°	664.0	880.7	1029.8	1034.8	1042.3	1033.6	1041.0	1043.6	1046.1	1043.6	1042.3
42.5°	598.8	796.8	985.9	992.2	987.1	993.5	995.9	1001.0	997.2	992.2	992.2
45°	548.7	774.2	938.3	945.9	938.3	948.4	952.1	952.1	940.8	938.3	937.1
47.5°	532.5	729.1	890.8	890.8	886.9	899.5	905.8	897.0	885.7	882.0	882.0
50°	531.2	679.0	825.6	820.6	838.1	853.1	846.9	838.1	829.3	815.6	815.6
52.5°	482.3	617.7	741.7	760.5	788.0	796.8	786.7	778.0	763.0	756.6	751.7
55°	447.2	553.8	665.2	702.8	731.6	742.9	724.1	715.4	692.7	689.0	686.5
57.5°	439.7	461.0	595.1	642.7	677.7	676.5	665.2	648.9	630.2	626.4	625.1
60°	403.4	333.3	519.9	576.3	612.6	608.9	598.8	583.8	566.3	563.8	561.2
62.5°	365.8	241.8	434.7	498.6	549.9	548.7	539.9	517.4	504.8	498.6	493.6
65°	310.6	203.0	309.4	414.7	488.6	491.1	472.3	456.0	442.2	434.7	433.5
67.5°	236.8	165.4	209.2	345.8	429.7	427.2	403.4	395.9	378.4	374.6	367.1
70°	175.4	110.2	145.3	280.7	372.1	365.8	347.0	338.3	321.9	313.2	308.2
72.5°	145.3	88.9	106.5	218.0	313.2	305.7	289.4	279.4	265.6	258.1	253.0
75°	117.8	94.0	81.4	161.6	254.3	249.3	234.2	224.3	213.0	203.0	204.2
77.5°	86.5	87.7	65.1	119.0	201.7	194.2	185.4	172.9	167.8	157.8	157.8
80°	65.1	68.9	48.8	81.4	145.3	145.3	137.8	129.1	120.3	115.3	115.3
82.5°	43.8	43.8	36.3	51.4	99.0	95.2	90.2	87.7	82.7	80.1	80.1
85°	20.1	25.0	22.5	31.3	53.9	56.4	56.4	53.9	52.6	50.2	51.4
87.5°	6.3	11.3	13.8	17.6	27.6	28.9	30.1	30.1	30.1	31.3	31.3
90°	5.8	10.5	15.1	16.3	25.5	37.8	44.0	39.1	29.3	22.0	22.0
92.5°	23.2	62.6	102.0	111.8	157.2	217.6	247.9	217.2	156.0	110.0	105.6
95°	55.6	127.7	199.7	217.7	386.6	611.8	724.4	646.4	490.4	373.5	360.2
97.5°	96.1	159.7	223.3	239.2	520.8	896.3	1084.0	1034.7	936.1	862.3	837.1
100°	127.4	185.0	242.7	257.1	569.6	986.3	1194.6	1198.2	1205.4	1210.8	1180.8
102.5°	154.0	207.8	261.6	275.1	592.0	1014.6	1225.9	1288.6	1414.3	1508.5	1482.7
105°	199.2	244.8	290.3	301.7	608.6	1017.8	1222.4	1363.2	1644.7	1855.9	1842.0
107.5°	245.5	288.0	330.4	341.1	611.7	972.5	1152.9	1349.3	1742.0	2036.6	2039.9
110°	276.8	315.1	353.4	363.0	607.0	932.3	1095.0	1314.5	1753.6	2082.9	2097.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	307.5	344.0	380.5	389.7	607.2	897.3	1042.3	1267.1	1716.4	2053.4	2075.5
115°	353.8	387.5	421.2	429.6	612.8	857.0	979.2	1195.6	1628.5	1953.2	1983.9
117.5°	399.6	430.2	460.8	468.5	624.3	831.9	935.8	1131.1	1521.8	1814.8	1848.8
120°	426.2	455.0	483.8	491.0	633.4	823.4	918.4	1096.9	1453.9	1721.5	1754.6
122.5°	452.2	481.4	510.4	517.7	646.8	818.9	905.0	1065.8	1387.3	1628.3	1660.9
125°	492.2	518.7	545.2	551.8	664.7	815.3	890.6	1027.1	1300.1	1505.0	1535.0
127.5°	524.6	551.4	578.1	584.9	682.8	813.2	878.4	995.6	1230.1	1406.0	1431.3
130°	542.0	570.8	599.6	606.8	695.8	814.5	873.9	978.2	1186.9	1343.5	1366.9
132.5°	559.9	588.8	617.7	624.8	706.5	815.3	869.7	963.1	1150.0	1290.1	1311.1
135°	586.6	612.8	639.1	645.7	718.1	814.5	862.8	941.1	1097.5	1214.9	1233.0
137.5°	613.8	639.8	665.8	672.3	735.4	819.6	861.6	927.7	1060.1	1159.3	1174.0
140°	636.4	660.3	684.2	690.2	746.0	820.4	857.6	914.8	1029.0	1114.7	1128.6
142.5°	653.8	675.9	698.1	703.6	755.0	823.4	857.6	907.8	1008.2	1083.4	1095.3
145°	680.4	699.8	719.0	723.8	766.5	823.4	851.8	892.9	975.0	1036.6	1045.5
147.5°	707.0	725.8	744.7	749.3	783.5	829.0	851.8	884.1	948.7	997.1	1004.6
150°	724.4	741.4	758.4	762.6	792.3	832.0	851.8	879.1	933.6	974.5	980.6
152.5°	742.3	755.2	768.1	771.3	798.1	833.9	851.8	875.1	921.7	956.6	961.2
155°	769.0	778.5	788.0	790.4	810.9	838.2	851.8	870.3	907.4	935.2	938.2
157.5°	788.7	797.9	807.2	809.5	823.6	842.4	851.8	866.2	895.1	916.6	918.8
160°	802.0	809.2	816.4	818.2	829.4	844.3	851.8	864.1	888.9	907.4	908.6
162.5°	815.3	820.7	826.1	827.5	835.6	846.4	851.8	862.3	883.1	898.7	899.8
165°	829.8	834.6	839.6	840.8	844.4	849.4	851.8	859.3	874.2	885.4	886.6
167.5°	843.1	845.5	847.8	848.4	851.4	855.5	857.6	862.5	872.3	879.6	880.1
170°	851.8	854.1	856.5	857.0	857.2	857.5	857.6	862.5	872.3	879.6	879.6
172.5°	856.5	856.9	857.5	857.6	857.6	857.6	857.6	861.4	869.2	875.0	874.5
175°	862.8	862.8	862.8	862.8	861.1	858.7	857.6	860.0	865.0	868.6	868.6
177.5°	862.8	862.8	862.8	862.8	861.4	859.7	858.7	860.7	864.5	867.4	866.9
180°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1358.0	1354.3	1358.0	1355.5	1356.7	1353.0	1341.7	1338.0	1341.7	1345.5	1345.5
5°	1374.3	1371.8	1374.3	1374.3	1373.1	1370.6	1358.0	1355.5	1358.0	1359.3	1356.7
7.5°	1379.3	1375.6	1379.3	1376.8	1376.8	1374.3	1361.8	1359.3	1360.6	1364.3	1360.6
10°	1379.3	1375.6	1379.3	1378.0	1376.8	1374.3	1361.8	1356.7	1356.7	1360.6	1356.7
12.5°	1373.1	1370.6	1373.1	1370.6	1370.6	1368.0	1355.5	1350.5	1351.8	1353.0	1347.9
15°	1363.0	1359.3	1363.0	1360.6	1361.8	1358.0	1344.2	1339.3	1339.3	1341.7	1332.9
17.5°	1347.9	1343.0	1347.9	1346.7	1345.5	1343.0	1330.5	1325.4	1324.2	1325.4	1319.2
20°	1330.5	1326.7	1330.5	1329.2	1329.2	1324.2	1311.6	1305.4	1305.4	1305.4	1299.1
22.5°	1302.9	1299.1	1302.9	1305.4	1305.4	1304.1	1292.8	1284.1	1281.6	1281.6	1274.1
25°	1271.5	1267.8	1271.5	1271.5	1270.3	1271.5	1267.8	1262.8	1259.0	1255.3	1247.7
27.5°	1241.5	1239.0	1241.5	1239.0	1241.5	1237.7	1236.5	1235.2	1230.3	1226.4	1216.4
30°	1211.4	1209.0	1211.4	1209.0	1206.4	1203.9	1197.7	1195.1	1200.2	1197.7	1181.4
32.5°	1173.9	1171.3	1173.9	1173.9	1171.3	1171.3	1161.3	1157.6	1158.8	1166.4	1151.3
35°	1135.0	1131.3	1135.0	1133.8	1135.0	1131.3	1125.0	1123.8	1118.7	1127.5	1116.2
37.5°	1089.9	1086.1	1089.9	1089.9	1089.9	1092.4	1087.5	1083.6	1076.2	1087.5	1078.7
40°	1043.6	1038.5	1043.6	1042.3	1043.6	1046.1	1043.6	1041.0	1033.6	1042.3	1034.8
42.5°	991.0	989.7	991.0	992.2	992.2	997.2	1001.0	995.9	993.5	987.1	992.2
45°	934.6	932.0	934.6	937.1	938.3	940.8	952.1	952.1	948.4	938.3	945.9
47.5°	874.4	868.2	874.4	882.0	882.0	885.7	897.0	905.8	899.5	886.9	890.8
50°	810.5	811.8	810.5	815.6	815.6	829.3	838.1	846.9	853.1	838.1	820.6
52.5°	747.9	746.6	747.9	751.7	756.6	763.0	778.0	786.7	796.8	788.0	760.5
55°	685.3	687.8	685.3	686.5	689.0	692.7	715.4	724.1	742.9	731.6	702.8
57.5°	622.6	618.9	622.6	625.1	626.4	630.2	648.9	665.2	676.5	677.7	642.7
60°	549.9	545.0	549.9	561.2	563.8	566.3	583.8	598.8	608.9	612.6	576.3
62.5°	486.1	477.3	486.1	493.6	498.6	504.8	517.4	539.9	548.7	549.9	498.6
65°	418.4	414.7	418.4	433.5	434.7	442.2	456.0	472.3	491.1	488.6	414.7
67.5°	357.1	357.1	357.1	367.1	374.6	378.4	395.9	403.4	427.2	429.7	345.8
70°	300.7	299.4	300.7	308.2	313.2	321.9	338.3	347.0	365.8	372.1	280.7
72.5°	246.8	245.5	246.8	253.0	258.1	265.6	279.4	289.4	305.7	313.2	218.0
75°	199.2	196.7	199.2	204.2	203.0	213.0	224.3	234.2	249.3	254.3	161.6
77.5°	152.8	152.8	152.8	157.8	157.8	167.8	172.9	185.4	194.2	201.7	119.0
80°	114.0	112.7	114.0	115.3	115.3	120.3	129.1	137.8	145.3	145.3	81.4
82.5°	80.1	77.7	80.1	80.1	80.1	82.7	87.7	90.2	95.2	99.0	51.4
85°	50.2	50.2	50.2	51.4	50.2	52.6	53.9	56.4	56.4	53.9	31.3
87.5°	32.6	31.3	32.6	31.3	31.3	30.1	30.1	30.1	28.9	27.6	17.6
90°	22.0	22.0	22.0	22.0	22.0	29.3	39.1	44.0	37.8	25.5	16.3
92.5°	88.2	70.6	88.2	105.6	110.0	156.0	217.2	247.9	217.6	157.2	111.8
95°	307.3	254.2	307.3	360.2	373.5	490.4	646.4	724.4	611.8	386.6	217.7
97.5°	736.1	635.2	736.1	837.1	862.3	936.1	1034.7	1084.0	896.3	520.8	239.2
100°	1060.7	940.4	1060.7	1180.8	1210.8	1205.4	1198.2	1194.6	986.3	569.6	257.1
102.5°	1379.8	1276.9	1379.8	1482.7	1508.5	1414.3	1288.6	1225.9	1014.6	592.0	275.1
105°	1786.6	1731.4	1786.6	1842.0	1855.9	1644.7	1363.2	1222.4	1017.8	608.6	301.7
107.5°	2053.3	2066.7	2053.3	2039.9	2036.6	1742.0	1349.3	1152.9	972.5	611.7	341.1
110°	2155.0	2212.6	2155.0	2097.3	2082.9	1753.6	1314.5	1095.0	932.3	607.0	363.0





TEST NUMBER: P934696

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2164.0	2252.5	2164.0	2075.5	2053.4	1716.4	1267.1	1042.3	897.3	607.2	389.7
115°	2106.6	2229.4	2106.6	1983.9	1953.2	1628.5	1195.6	979.2	857.0	612.8	429.6
117.5°	1984.9	2121.1	1984.9	1848.8	1814.8	1521.8	1131.1	935.8	831.9	624.3	468.5
120°	1887.0	2019.2	1887.0	1754.6	1721.5	1453.9	1096.9	918.4	823.4	633.4	491.0
122.5°	1791.4	1921.9	1791.4	1660.9	1628.3	1387.3	1065.8	905.0	818.9	646.8	517.7
125°	1655.2	1775.4	1655.2	1535.0	1505.0	1300.1	1027.1	890.6	815.3	664.7	551.8
127.5°	1532.7	1634.1	1532.7	1431.3	1406.0	1230.1	995.6	878.4	813.2	682.8	584.9
130°	1460.5	1554.2	1460.5	1366.9	1343.5	1186.9	978.2	873.9	814.5	695.8	606.8
132.5°	1395.0	1478.9	1395.0	1311.1	1290.1	1150.0	963.1	869.7	815.3	706.5	624.8
135°	1305.3	1377.6	1305.3	1233.0	1214.9	1097.5	941.1	862.8	814.5	718.1	645.7
137.5°	1233.3	1292.5	1233.3	1174.0	1159.3	1060.1	927.7	861.6	819.6	735.4	672.3
140°	1183.9	1239.2	1183.9	1128.6	1114.7	1029.0	914.8	857.6	820.4	746.0	690.2
142.5°	1142.9	1190.6	1142.9	1095.3	1083.4	1008.2	907.8	857.6	823.4	755.0	703.6
145°	1081.6	1117.6	1081.6	1045.5	1036.6	975.0	892.9	851.8	823.4	766.5	723.8
147.5°	1034.4	1064.3	1034.4	1004.6	997.1	948.7	884.1	851.8	829.0	783.5	749.3
150°	1004.8	1029.0	1004.8	980.6	974.5	933.6	879.1	851.8	832.0	792.3	762.6
152.5°	979.4	997.7	979.4	961.2	956.6	921.7	875.1	851.8	833.9	798.1	771.3
155°	950.3	962.4	950.3	938.2	935.2	907.4	870.3	851.8	838.2	810.9	790.4
157.5°	927.3	935.8	927.3	918.8	916.6	895.1	866.2	851.8	842.4	823.6	809.5
160°	913.5	918.4	913.5	908.6	907.4	888.9	864.1	851.8	844.3	829.4	818.2
162.5°	904.5	909.2	904.5	899.8	898.7	883.1	862.3	851.8	846.4	835.6	827.5
165°	891.5	896.4	891.5	886.6	885.4	874.2	859.3	851.8	849.4	844.4	840.8
167.5°	882.2	884.2	882.2	880.1	879.6	872.3	862.5	857.6	855.5	851.4	848.4
170°	879.6	879.6	879.6	879.6	879.6	872.3	862.5	857.6	857.5	857.2	857.0
172.5°	872.7	871.0	872.7	874.5	875.0	869.2	861.4	857.6	857.6	857.6	857.6
175°	868.6	868.6	868.6	868.6	868.6	865.0	860.0	857.6	858.7	861.1	862.8
177.5°	864.9	862.8	864.9	866.9	867.4	864.5	860.7	858.7	859.7	861.4	862.8
180°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8



TEST NUMBER: P934696

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1343.0	1335.4	1335.4	1322.9	1318.0	1314.1	1307.9	1289.1	1284.1	1279.1	1286.6
5°	1354.3	1340.5	1330.5	1307.9	1289.1	1281.6	1257.8	1212.7	1182.6	1160.0	1147.5
7.5°	1356.7	1339.3	1320.4	1285.4	1240.3	1220.2	1147.5	1064.9	1042.3	1022.3	1009.7
10°	1354.3	1334.2	1307.9	1255.3	1148.8	1113.7	1041.0	987.1	973.4	969.7	973.4
12.5°	1345.5	1326.7	1290.3	1202.7	1053.6	1029.8	987.1	955.9	953.3	959.6	993.5
15°	1330.5	1312.9	1270.3	1132.5	1001.0	983.4	953.3	942.1	955.9	999.8	1101.2
17.5°	1315.4	1295.4	1242.8	1063.6	960.9	948.4	927.1	949.6	1027.3	1086.1	1120.0
20°	1295.4	1271.5	1211.4	1013.5	932.0	920.8	910.7	1012.3	1071.1	1092.4	1111.2
22.5°	1271.5	1246.5	1168.8	978.5	902.0	893.3	899.5	1047.3	1071.1	1086.1	1102.4
25°	1240.3	1219.0	1118.7	950.9	878.2	868.2	892.0	1043.6	1057.4	1061.1	1093.7
27.5°	1211.4	1183.8	1066.2	925.8	849.4	845.6	898.2	1027.3	1037.3	1041.0	1076.2
30°	1176.4	1135.0	1007.2	899.5	819.3	818.1	899.5	1007.2	1004.7	1014.8	1049.8
32.5°	1140.0	1062.3	940.8	866.9	790.5	789.2	890.8	977.2	974.6	988.5	1014.8
35°	1106.2	1006.0	850.6	829.3	754.2	755.4	869.5	942.1	943.3	955.9	972.2
37.5°	1071.1	957.2	751.7	788.0	719.1	719.1	840.6	909.5	907.0	910.7	933.3
40°	1029.8	880.7	664.0	734.1	686.5	682.8	805.6	874.4	865.6	864.4	895.7
42.5°	985.9	796.8	598.8	662.8	648.9	643.9	763.0	831.8	815.6	819.3	859.4
45°	938.3	774.2	548.7	560.0	610.1	606.4	716.6	783.0	771.7	781.8	823.0
47.5°	890.8	729.1	532.5	464.8	568.8	567.5	665.2	735.3	729.1	739.2	783.0
50°	825.6	679.0	531.2	398.4	522.4	527.4	603.8	689.0	689.0	697.8	744.1
52.5°	741.7	617.7	482.3	360.8	468.5	483.5	549.9	648.9	651.5	660.2	701.5
55°	665.2	553.8	447.2	331.9	404.6	437.2	497.4	607.6	612.6	621.4	658.9
57.5°	595.1	461.0	439.7	298.1	345.8	377.1	451.0	567.5	570.0	577.5	613.8
60°	519.9	333.3	403.4	261.8	294.4	318.2	408.4	519.9	528.6	533.7	565.0
62.5°	434.7	241.8	365.8	236.8	269.4	274.3	373.3	474.8	486.1	489.9	508.7
65°	309.4	203.0	310.6	215.5	243.0	244.3	335.8	428.4	438.5	444.8	458.5
67.5°	209.2	165.4	236.8	195.4	223.0	224.3	299.4	374.6	388.4	393.4	402.2
70°	145.3	110.2	175.4	174.1	200.4	203.0	260.6	325.7	338.3	342.0	347.0
72.5°	106.5	88.9	145.3	156.6	176.6	179.1	220.5	270.6	283.1	286.9	289.4
75°	81.4	94.0	117.8	136.6	150.4	151.6	180.4	220.5	229.3	231.7	233.0
77.5°	65.1	87.7	86.5	110.2	122.7	120.3	141.6	170.4	177.9	177.9	177.9
80°	48.8	68.9	65.1	78.9	90.2	87.7	101.4	121.5	124.0	126.6	125.2
82.5°	36.3	43.8	43.8	50.2	60.1	57.6	67.6	78.9	78.9	78.9	81.4
85°	22.5	25.0	20.1	26.3	33.8	32.6	37.5	42.6	43.8	43.8	41.4
87.5°	13.8	11.3	6.3	10.0	15.0	15.0	17.6	18.8	17.6	17.6	17.6
90°	15.1	10.5	5.8	10.5	15.1	16.3	25.5	37.8	44.0	39.1	29.3
92.5°	102.0	62.6	23.2	62.6	102.0	111.8	157.2	217.6	247.9	217.2	156.0
95°	199.7	127.7	55.6	127.7	199.7	217.7	386.6	611.8	724.4	646.4	490.4
97.5°	223.3	159.7	96.1	159.7	223.3	239.2	520.8	896.3	1084.0	1034.7	936.1
100°	242.7	185.0	127.4	185.0	242.7	257.1	569.6	986.3	1194.6	1198.2	1205.4
102.5°	261.6	207.8	154.0	207.8	261.6	275.1	592.0	1014.6	1225.9	1288.6	1414.3
105°	290.3	244.8	199.2	244.8	290.3	301.7	608.6	1017.8	1222.4	1363.2	1644.7
107.5°	330.4	288.0	245.5	288.0	330.4	341.1	611.7	972.5	1152.9	1349.3	1742.0
110°	353.4	315.1	276.8	315.1	353.4	363.0	607.0	932.3	1095.0	1314.5	1753.6



TEST NUMBER: P934696

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	380.5	344.0	307.5	344.0	380.5	389.7	607.2	897.3	1042.3	1267.1	1716.4
115°	421.2	387.5	353.8	387.5	421.2	429.6	612.8	857.0	979.2	1195.6	1628.5
117.5°	460.8	430.2	399.6	430.2	460.8	468.5	624.3	831.9	935.8	1131.1	1521.8
120°	483.8	455.0	426.2	455.0	483.8	491.0	633.4	823.4	918.4	1096.9	1453.9
122.5°	510.4	481.4	452.2	481.4	510.4	517.7	646.8	818.9	905.0	1065.8	1387.3
125°	545.2	518.7	492.2	518.7	545.2	551.8	664.7	815.3	890.6	1027.1	1300.1
127.5°	578.1	551.4	524.6	551.4	578.1	584.9	682.8	813.2	878.4	995.6	1230.1
130°	599.6	570.8	542.0	570.8	599.6	606.8	695.8	814.5	873.9	978.2	1186.9
132.5°	617.7	588.8	559.9	588.8	617.7	624.8	706.5	815.3	869.7	963.1	1150.0
135°	639.1	612.8	586.6	612.8	639.1	645.7	718.1	814.5	862.8	941.1	1097.5
137.5°	665.8	639.8	613.8	639.8	665.8	672.3	735.4	819.6	861.6	927.7	1060.1
140°	684.2	660.3	636.4	660.3	684.2	690.2	746.0	820.4	857.6	914.8	1029.0
142.5°	698.1	675.9	653.8	675.9	698.1	703.6	755.0	823.4	857.6	907.8	1008.2
145°	719.0	699.8	680.4	699.8	719.0	723.8	766.5	823.4	851.8	892.9	975.0
147.5°	744.7	725.8	707.0	725.8	744.7	749.3	783.5	829.0	851.8	884.1	948.7
150°	758.4	741.4	724.4	741.4	758.4	762.6	792.3	832.0	851.8	879.1	933.6
152.5°	768.1	755.2	742.3	755.2	768.1	771.3	798.1	833.9	851.8	875.1	921.7
155°	788.0	778.5	769.0	778.5	788.0	790.4	810.9	838.2	851.8	870.3	907.4
157.5°	807.2	797.9	788.7	797.9	807.2	809.5	823.6	842.4	851.8	866.2	895.1
160°	816.4	809.2	802.0	809.2	816.4	818.2	829.4	844.3	851.8	864.1	888.9
162.5°	826.1	820.7	815.3	820.7	826.1	827.5	835.6	846.4	851.8	862.3	883.1
165°	839.6	834.6	829.8	834.6	839.6	840.8	844.4	849.4	851.8	859.3	874.2
167.5°	847.8	845.5	843.1	845.5	847.8	848.4	851.4	855.5	857.6	862.5	872.3
170°	856.5	854.1	851.8	854.1	856.5	857.0	857.2	857.5	857.6	862.5	872.3
172.5°	857.5	856.9	856.5	856.9	857.5	857.6	857.6	857.6	857.6	861.4	869.2
175°	862.8	862.8	862.8	862.8	862.8	862.8	861.1	858.7	857.6	860.0	865.0
177.5°	862.8	862.8	862.8	862.8	862.8	862.8	861.4	859.7	858.7	860.7	864.5
180°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8



TEST NUMBER: P934696

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1277.8	1274.1	1279.1	1265.3	1279.1	1274.1	1277.8	1286.6	1279.1	1284.1	1289.1
5°	1121.3	1115.0	1094.9	1078.7	1094.9	1115.0	1121.3	1147.5	1160.0	1182.6	1212.7
7.5°	1002.2	997.2	992.2	982.2	992.2	997.2	1002.2	1009.7	1022.3	1042.3	1064.9
10°	975.9	977.2	984.7	983.4	984.7	977.2	975.9	973.4	969.7	973.4	987.1
12.5°	1043.6	1054.9	1096.1	1093.7	1096.1	1054.9	1043.6	993.5	959.6	953.3	955.9
15°	1121.3	1125.0	1133.8	1135.0	1133.8	1125.0	1121.3	1101.2	999.8	955.9	942.1
17.5°	1128.7	1130.0	1136.3	1136.3	1136.3	1130.0	1128.7	1120.0	1086.1	1027.3	949.6
20°	1122.5	1125.0	1137.5	1140.0	1137.5	1125.0	1122.5	1111.2	1092.4	1071.1	1012.3
22.5°	1120.0	1125.0	1135.0	1133.8	1135.0	1125.0	1120.0	1102.4	1086.1	1071.1	1047.3
25°	1107.4	1107.4	1108.8	1110.0	1108.8	1107.4	1107.4	1093.7	1061.1	1057.4	1043.6
27.5°	1081.1	1083.6	1091.2	1089.9	1091.2	1083.6	1081.1	1076.2	1041.0	1037.3	1027.3
30°	1057.4	1054.9	1048.6	1043.6	1048.6	1054.9	1057.4	1049.8	1014.8	1004.7	1007.2
32.5°	1017.2	1011.0	1004.7	1001.0	1004.7	1011.0	1017.2	1014.8	988.5	974.6	977.2
35°	969.7	970.9	969.7	965.8	969.7	970.9	969.7	972.2	955.9	943.3	942.1
37.5°	935.9	938.3	937.1	932.0	937.1	938.3	935.9	933.3	910.7	907.0	909.5
40°	900.7	902.0	900.7	897.0	900.7	902.0	900.7	895.7	864.4	865.6	874.4
42.5°	866.9	865.6	861.9	859.4	861.9	865.6	866.9	859.4	819.3	815.6	831.8
45°	828.1	829.3	821.8	818.1	821.8	829.3	828.1	823.0	781.8	771.7	783.0
47.5°	789.2	789.2	783.0	779.2	783.0	789.2	789.2	783.0	739.2	729.1	735.3
50°	747.9	746.6	737.9	736.6	737.9	746.6	747.9	744.1	697.8	689.0	689.0
52.5°	700.3	700.3	701.5	704.0	701.5	700.3	700.3	701.5	660.2	651.5	648.9
55°	658.9	660.2	669.0	671.5	669.0	660.2	658.9	658.9	621.4	612.6	607.6
57.5°	616.3	616.3	622.6	622.6	622.6	616.3	616.3	613.8	577.5	570.0	567.5
60°	567.5	570.0	575.1	573.8	575.1	570.0	567.5	565.0	533.7	528.6	519.9
62.5°	516.1	518.7	519.9	517.4	519.9	518.7	516.1	508.7	489.9	486.1	474.8
65°	462.2	464.8	466.1	463.5	466.1	464.8	462.2	458.5	444.8	438.5	428.4
67.5°	407.1	405.9	404.6	409.7	404.6	405.9	407.1	402.2	393.4	388.4	374.6
70°	350.8	350.8	349.5	352.0	349.5	350.8	350.8	347.0	342.0	338.3	325.7
72.5°	290.7	289.4	294.4	290.7	294.4	289.4	290.7	289.4	286.9	283.1	270.6
75°	231.7	234.2	231.7	235.6	231.7	234.2	231.7	233.0	231.7	229.3	220.5
77.5°	176.6	179.1	176.6	176.6	176.6	179.1	176.6	177.9	177.9	177.9	170.4
80°	125.2	124.0	124.0	122.7	124.0	124.0	125.2	125.2	126.6	124.0	121.5
82.5°	80.1	78.9	78.9	81.4	78.9	78.9	80.1	81.4	78.9	78.9	78.9
85°	43.8	45.1	42.6	42.6	42.6	45.1	43.8	41.4	43.8	43.8	42.6
87.5°	16.3	15.0	15.0	15.0	15.0	15.0	16.3	17.6	17.6	17.6	18.8
90°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	29.3	39.1	44.0	37.8
92.5°	110.0	105.6	88.2	70.6	88.2	105.6	110.0	156.0	217.2	247.9	217.6
95°	373.5	360.2	307.3	254.2	307.3	360.2	373.5	490.4	646.4	724.4	611.8
97.5°	862.3	837.1	736.1	635.2	736.1	837.1	862.3	936.1	1034.7	1084.0	896.3
100°	1210.8	1180.8	1060.7	940.4	1060.7	1180.8	1210.8	1205.4	1198.2	1194.6	986.3
102.5°	1508.5	1482.7	1379.8	1276.9	1379.8	1482.7	1508.5	1414.3	1288.6	1225.9	1014.6
105°	1855.9	1842.0	1786.6	1731.4	1786.6	1842.0	1855.9	1644.7	1363.2	1222.4	1017.8
107.5°	2036.6	2039.9	2053.3	2066.7	2053.3	2039.9	2036.6	1742.0	1349.3	1152.9	972.5
110°	2082.9	2097.3	2155.0	2212.6	2155.0	2097.3	2082.9	1753.6	1314.5	1095.0	932.3



TEST NUMBER: P934696

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2053.4	2075.5	2164.0	2252.5	2164.0	2075.5	2053.4	1716.4	1267.1	1042.3	897.3
115°	1953.2	1983.9	2106.6	2229.4	2106.6	1983.9	1953.2	1628.5	1195.6	979.2	857.0
117.5°	1814.8	1848.8	1984.9	2121.1	1984.9	1848.8	1814.8	1521.8	1131.1	935.8	831.9
120°	1721.5	1754.6	1887.0	2019.2	1887.0	1754.6	1721.5	1453.9	1096.9	918.4	823.4
122.5°	1628.3	1660.9	1791.4	1921.9	1791.4	1660.9	1628.3	1387.3	1065.8	905.0	818.9
125°	1505.0	1535.0	1655.2	1775.4	1655.2	1535.0	1505.0	1300.1	1027.1	890.6	815.3
127.5°	1406.0	1431.3	1532.7	1634.1	1532.7	1431.3	1406.0	1230.1	995.6	878.4	813.2
130°	1343.5	1366.9	1460.5	1554.2	1460.5	1366.9	1343.5	1186.9	978.2	873.9	814.5
132.5°	1290.1	1311.1	1395.0	1478.9	1395.0	1311.1	1290.1	1150.0	963.1	869.7	815.3
135°	1214.9	1233.0	1305.3	1377.6	1305.3	1233.0	1214.9	1097.5	941.1	862.8	814.5
137.5°	1159.3	1174.0	1233.3	1292.5	1233.3	1174.0	1159.3	1060.1	927.7	861.6	819.6
140°	1114.7	1128.6	1183.9	1239.2	1183.9	1128.6	1114.7	1029.0	914.8	857.6	820.4
142.5°	1083.4	1095.3	1142.9	1190.6	1142.9	1095.3	1083.4	1008.2	907.8	857.6	823.4
145°	1036.6	1045.5	1081.6	1117.6	1081.6	1045.5	1036.6	975.0	892.9	851.8	823.4
147.5°	997.1	1004.6	1034.4	1064.3	1034.4	1004.6	997.1	948.7	884.1	851.8	829.0
150°	974.5	980.6	1004.8	1029.0	1004.8	980.6	974.5	933.6	879.1	851.8	832.0
152.5°	956.6	961.2	979.4	997.7	979.4	961.2	956.6	921.7	875.1	851.8	833.9
155°	935.2	938.2	950.3	962.4	950.3	938.2	935.2	907.4	870.3	851.8	838.2
157.5°	916.6	918.8	927.3	935.8	927.3	918.8	916.6	895.1	866.2	851.8	842.4
160°	907.4	908.6	913.5	918.4	913.5	908.6	907.4	888.9	864.1	851.8	844.3
162.5°	898.7	899.8	904.5	909.2	904.5	899.8	898.7	883.1	862.3	851.8	846.4
165°	885.4	886.6	891.5	896.4	891.5	886.6	885.4	874.2	859.3	851.8	849.4
167.5°	879.6	880.1	882.2	884.2	882.2	880.1	879.6	872.3	862.5	857.6	855.5
170°	879.6	879.6	879.6	879.6	879.6	879.6	879.6	872.3	862.5	857.6	857.5
172.5°	875.0	874.5	872.7	871.0	872.7	874.5	875.0	869.2	861.4	857.6	857.6
175°	868.6	868.6	868.6	868.6	868.6	868.6	868.6	865.0	860.0	857.6	858.7
177.5°	867.4	866.9	864.9	862.8	864.9	866.9	867.4	864.5	860.7	858.7	859.7
180°	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8	862.8



TEST NUMBER: P934696

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1324.2	1324.2	1324.2	1324.2	1324.2
2.5°	1307.9	1314.1	1318.0	1322.9	1335.4
5°	1257.8	1281.6	1289.1	1307.9	1330.5
7.5°	1147.5	1220.2	1240.3	1285.4	1320.4
10°	1041.0	1113.7	1148.8	1255.3	1307.9
12.5°	987.1	1029.8	1053.6	1202.7	1290.3
15°	953.3	983.4	1001.0	1132.5	1270.3
17.5°	927.1	948.4	960.9	1063.6	1242.8
20°	910.7	920.8	932.0	1013.5	1211.4
22.5°	899.5	893.3	902.0	978.5	1168.8
25°	892.0	868.2	878.2	950.9	1118.7
27.5°	898.2	845.6	849.4	925.8	1066.2
30°	899.5	818.1	819.3	899.5	1007.2
32.5°	890.8	789.2	790.5	866.9	940.8
35°	869.5	755.4	754.2	829.3	850.6
37.5°	840.6	719.1	719.1	788.0	751.7
40°	805.6	682.8	686.5	734.1	664.0
42.5°	763.0	643.9	648.9	662.8	598.8
45°	716.6	606.4	610.1	560.0	548.7
47.5°	665.2	567.5	568.8	464.8	532.5
50°	603.8	527.4	522.4	398.4	531.2
52.5°	549.9	483.5	468.5	360.8	482.3
55°	497.4	437.2	404.6	331.9	447.2
57.5°	451.0	377.1	345.8	298.1	439.7
60°	408.4	318.2	294.4	261.8	403.4
62.5°	373.3	274.3	269.4	236.8	365.8
65°	335.8	244.3	243.0	215.5	310.6
67.5°	299.4	224.3	223.0	195.4	236.8
70°	260.6	203.0	200.4	174.1	175.4
72.5°	220.5	179.1	176.6	156.6	145.3
75°	180.4	151.6	150.4	136.6	117.8
77.5°	141.6	120.3	122.7	110.2	86.5
80°	101.4	87.7	90.2	78.9	65.1
82.5°	67.6	57.6	60.1	50.2	43.8
85°	37.5	32.6	33.8	26.3	20.1
87.5°	17.6	15.0	15.0	10.0	6.3
90°	25.5	16.3	15.1	10.5	5.8
92.5°	157.2	111.8	102.0	62.6	23.2
95°	386.6	217.7	199.7	127.7	55.6
97.5°	520.8	239.2	223.3	159.7	96.1
100°	569.6	257.1	242.7	185.0	127.4
102.5°	592.0	275.1	261.6	207.8	154.0
105°	608.6	301.7	290.3	244.8	199.2
107.5°	611.7	341.1	330.4	288.0	245.5
110°	607.0	363.0	353.4	315.1	276.8



TEST NUMBER: P934696

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	607.2	389.7	380.5	344.0	307.5
115°	612.8	429.6	421.2	387.5	353.8
117.5°	624.3	468.5	460.8	430.2	399.6
120°	633.4	491.0	483.8	455.0	426.2
122.5°	646.8	517.7	510.4	481.4	452.2
125°	664.7	551.8	545.2	518.7	492.2
127.5°	682.8	584.9	578.1	551.4	524.6
130°	695.8	606.8	599.6	570.8	542.0
132.5°	706.5	624.8	617.7	588.8	559.9
135°	718.1	645.7	639.1	612.8	586.6
137.5°	735.4	672.3	665.8	639.8	613.8
140°	746.0	690.2	684.2	660.3	636.4
142.5°	755.0	703.6	698.1	675.9	653.8
145°	766.5	723.8	719.0	699.8	680.4
147.5°	783.5	749.3	744.7	725.8	707.0
150°	792.3	762.6	758.4	741.4	724.4
152.5°	798.1	771.3	768.1	755.2	742.3
155°	810.9	790.4	788.0	778.5	769.0
157.5°	823.6	809.5	807.2	797.9	788.7
160°	829.4	818.2	816.4	809.2	802.0
162.5°	835.6	827.5	826.1	820.7	815.3
165°	844.4	840.8	839.6	834.6	829.8
167.5°	851.4	848.4	847.8	845.5	843.1
170°	857.2	857.0	856.5	854.1	851.8
172.5°	857.6	857.6	857.5	856.9	856.5
175°	861.1	862.8	862.8	862.8	862.8
177.5°	861.4	862.8	862.8	862.8	862.8
180°	862.8	862.8	862.8	862.8	862.8



TEST NUMBER: P934696  
 CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-8-5000K

**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	9.90	10.66	10.95	11.72	13.15	12.74	13.50	13.79	14.56	15.99
	3H	10.37	11.05	11.43	12.12	13.57	14.08	14.76	15.14	15.83	17.28
	4H	10.55	11.20	11.63	12.27	13.73	14.52	15.17	15.59	16.23	17.69
	6H	10.67	11.26	11.75	12.34	13.81	14.80	15.40	15.88	16.47	17.94
	8H	10.67	11.23	11.75	12.32	13.79	14.87	15.44	15.96	16.53	17.99
	12H	10.63	11.17	11.73	12.25	13.74	14.91	15.45	16.00	16.53	18.02
4H	2H	10.92	11.57	12.00	12.64	14.09	13.13	13.78	14.21	14.85	16.31
	3H	11.94	12.48	13.03	13.57	15.04	14.63	15.17	15.72	16.27	17.74
	4H	12.21	12.71	13.30	13.79	15.28	15.16	15.65	16.25	16.74	18.23
	6H	12.33	12.76	13.43	13.86	15.35	15.52	15.94	16.62	17.05	18.54
	8H	12.33	12.73	13.44	13.83	15.33	15.62	16.02	16.73	17.12	18.62
	12H	12.30	12.65	13.42	13.77	15.27	15.68	16.04	16.80	17.15	18.66
8H	4H	12.66	13.05	13.76	14.16	15.66	15.27	15.67	16.38	16.77	18.27
	6H	12.91	13.24	14.04	14.39	15.88	15.71	16.04	16.83	17.18	18.68
	8H	12.96	13.24	14.09	14.37	15.88	15.86	16.15	16.99	17.27	18.79
	12H	12.94	13.19	14.07	14.31	15.86	15.96	16.21	17.09	17.33	18.88
12H	4H	12.66	13.02	13.78	14.13	15.64	15.23	15.59	16.35	16.71	18.21
	6H	12.98	13.26	14.11	14.39	15.90	15.70	15.99	16.83	17.12	18.63
	8H	13.04	13.29	14.17	14.41	15.96	15.86	16.11	17.00	17.23	18.79