

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: P934687

Luminaire Tested: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

Issue Date: 12/17/2024

**Test Information**

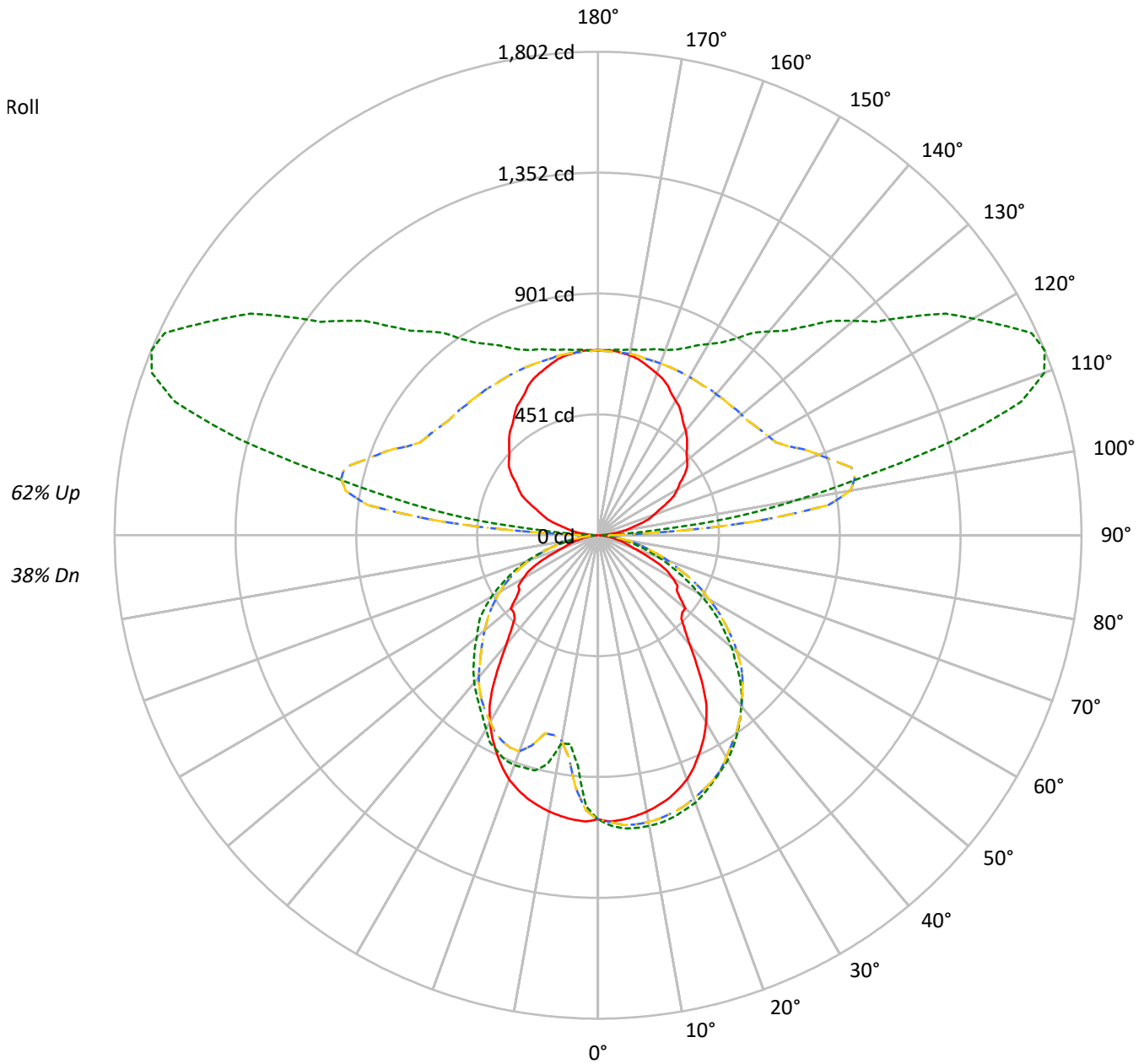
Test Method: LM-79-2019  
Report Number: P934687  
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7222.0 lumens  
Efficiency: N/A  
Efficacy: 140.0 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: Semi-Indirect  
  
Input Watts (W): 51.6  
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

TEST NUMBER: P934687  
CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

### Luminous Intensity Polar Plot



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





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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.6	1.3
10°-20°	271.4	3.8
20°-30°	419.6	5.8
30°-40°	500.9	6.9
40°-50°	503.8	7.0
50°-60°	438.4	6.1
60°-70°	310.8	4.3
70°-80°	164.4	2.3
80°-90°	43.6	0.6
90°-100°	336.4	4.7
100°-110°	884.4	12.2
110°-120°	917.0	12.7
120°-130°	735.5	10.2
130°-140°	577.1	8.0
140°-150°	443.0	6.1
150°-160°	319.0	4.4
160°-170°	195.2	2.7
170°-180°	65.9	0.9
0°-30°	786.6	10.9
0°-40°	1287.5	17.8
0°-60°	2229.7	30.9
0°-90°	2748.6	38.1
90°-120°	2137.7	29.6
90°-150°	3893.3	53.9
90°-180°	4473.0	61.9
0°-180°	7222.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1059	1059	1059	1059	1059	
5°	1064	1097	1064	863	1064	101
15°	1016	1087	1016	908	1016	286
25°	895	1014	895	888	895	411
35°	680	905	680	772	680	421
45°	439	745	439	654	439	352
55°	358	550	358	537	358	329
65°	248	332	248	371	248	237
75°	94	157	94	188	94	99
85°	16	40	16	34	16	22
90°	5	18	5	18	5	4
95°	44	203	44	203	44	49
105°	159	1385	159	1385	159	169
115°	283	1783	283	1783	283	279
125°	394	1420	394	1420	394	349
135°	469	1102	469	1102	469	363
145°	544	894	544	894	544	341
155°	615	770	615	770	615	283
165°	664	717	664	717	664	187
175°	690	695	690	695	690	66
180°	690	690	690	690	690	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1068.1	1068.1	1074.1	1076.1	1076.1	1073.1	1070.1	1073.1	1082.2	1085.1	1084.1
5°	1064.0	1072.1	1083.2	1085.1	1087.1	1086.1	1084.1	1086.1	1096.1	1098.2	1099.2
7.5°	1056.1	1071.1	1085.1	1088.1	1091.1	1088.1	1087.1	1089.1	1099.2	1101.2	1101.2
10°	1046.0	1067.1	1083.2	1085.1	1088.1	1085.1	1085.1	1089.1	1099.2	1101.2	1102.2
12.5°	1032.1	1061.0	1076.1	1078.1	1082.2	1081.2	1080.1	1084.1	1094.1	1096.1	1096.1
15°	1016.0	1050.1	1064.0	1066.1	1073.1	1071.1	1071.1	1075.1	1086.1	1089.1	1088.1
17.5°	993.9	1036.0	1052.1	1055.1	1060.0	1059.0	1060.0	1064.0	1074.1	1076.1	1077.1
20°	968.9	1017.0	1036.0	1039.0	1044.0	1044.0	1044.0	1049.1	1059.0	1063.0	1063.0
22.5°	934.8	996.9	1017.0	1019.0	1025.0	1025.0	1027.0	1034.0	1043.0	1044.0	1044.0
25°	894.7	974.9	991.9	998.0	1004.0	1007.0	1009.9	1014.0	1017.0	1016.0	1017.0
27.5°	852.7	946.8	968.9	972.9	981.0	983.9	987.9	988.9	989.9	992.9	990.9
30°	805.6	907.8	940.8	944.8	957.9	959.8	955.9	957.9	962.8	964.9	966.9
32.5°	752.5	849.7	911.7	920.8	932.9	926.8	925.8	928.8	936.8	936.8	938.8
35°	680.4	804.6	884.7	892.7	901.8	894.7	898.8	899.8	904.8	907.8	906.8
37.5°	601.2	765.5	856.7	862.6	869.7	860.6	866.7	869.7	873.7	871.7	871.7
40°	531.1	704.4	823.6	827.6	833.7	826.6	832.7	834.6	836.6	834.6	833.7
42.5°	479.0	637.2	788.5	793.5	789.5	794.5	796.6	800.6	797.6	793.5	793.5
45°	438.8	619.2	750.5	756.5	750.5	758.5	761.4	761.4	752.5	750.5	749.5
47.5°	425.8	583.2	712.4	712.4	709.4	719.4	724.4	717.4	708.4	705.4	705.4
50°	424.8	543.0	660.2	656.3	670.3	682.4	677.3	670.3	663.3	652.3	652.3
52.5°	385.8	493.9	593.1	608.2	630.3	637.2	629.3	622.2	610.1	605.2	601.2
55°	357.7	442.8	532.1	562.1	585.2	594.1	579.2	572.1	554.1	551.1	549.1
57.5°	351.7	368.7	475.9	514.0	542.0	541.0	532.1	519.0	504.0	501.0	500.0
60°	322.6	266.5	415.8	460.9	489.9	486.9	479.0	466.9	452.9	450.9	448.9
62.5°	292.5	193.4	347.7	398.8	439.8	438.8	431.9	413.8	403.8	398.8	394.8
65°	248.5	162.3	247.5	331.7	390.7	392.7	377.8	364.7	353.7	347.7	346.7
67.5°	189.3	132.3	167.3	276.6	343.7	341.6	322.6	316.6	302.6	299.6	293.6
70°	140.2	88.1	116.2	224.4	297.6	292.5	277.6	270.5	257.5	250.5	246.5
72.5°	116.2	71.1	85.2	174.3	250.5	244.5	231.5	223.4	212.4	206.4	202.4
75°	94.2	75.1	65.1	129.3	203.4	199.4	187.3	179.4	170.3	162.3	163.3
77.5°	69.1	70.1	52.1	95.2	161.4	155.3	148.3	138.2	134.3	126.3	126.3
80°	52.1	55.1	39.0	65.1	116.2	116.2	110.3	103.2	96.2	92.2	92.2
82.5°	35.1	35.1	29.1	41.0	79.2	76.2	72.1	70.1	66.1	64.1	64.1
85°	16.0	20.0	18.0	25.0	43.1	45.1	45.1	43.1	42.1	40.0	41.0
87.5°	5.0	9.1	11.1	14.0	22.0	23.0	24.0	24.0	24.0	25.0	25.0
90°	4.6	8.3	12.1	12.9	20.3	30.2	35.2	31.3	23.5	17.6	17.6
92.5°	18.5	50.0	81.5	89.3	125.6	174.0	198.2	173.7	124.7	87.9	84.5
95°	44.4	102.1	159.7	174.1	309.2	489.3	579.4	517.0	392.2	298.7	288.1
97.5°	76.9	127.7	178.5	191.2	416.5	716.8	867.0	827.6	748.8	689.6	669.4
100°	101.9	148.0	194.1	205.7	455.6	788.8	955.5	958.4	964.1	968.4	944.4
102.5°	123.2	166.2	209.3	220.0	473.5	811.4	980.5	1030.7	1131.2	1206.5	1185.8
105°	159.4	195.8	232.3	241.3	486.7	814.0	977.7	1090.2	1315.4	1484.3	1473.3
107.5°	196.4	230.4	264.3	272.8	489.2	777.8	922.1	1079.2	1393.3	1628.9	1631.5
110°	221.4	252.1	282.7	290.3	485.5	745.7	875.8	1051.4	1402.6	1665.9	1677.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	245.9	275.1	304.4	311.6	485.6	717.6	833.7	1013.3	1372.7	1642.2	1659.9
115°	283.0	310.0	336.8	343.6	490.1	685.4	783.2	956.3	1302.5	1562.1	1586.6
117.5°	319.5	344.0	368.5	374.7	499.3	665.3	748.4	904.7	1217.1	1451.5	1478.7
120°	340.8	363.9	386.9	392.7	506.7	658.6	734.6	877.3	1162.7	1376.9	1403.4
122.5°	361.7	385.0	408.3	414.0	517.3	655.1	723.9	852.4	1109.4	1302.3	1328.4
125°	393.6	414.8	436.0	441.3	531.7	652.1	712.3	821.5	1039.9	1203.7	1227.7
127.5°	419.6	441.0	462.3	467.7	546.0	650.4	702.6	796.3	983.8	1124.5	1144.8
130°	433.5	456.6	479.6	485.4	556.6	651.5	698.9	782.4	949.3	1074.5	1093.2
132.5°	447.8	470.9	493.9	499.7	565.0	652.1	695.6	770.3	919.8	1031.9	1048.6
135°	469.1	490.1	511.1	516.4	574.3	651.5	690.0	752.6	877.8	971.6	986.0
137.5°	490.9	511.6	532.5	537.6	588.1	655.5	689.1	742.0	847.8	927.2	939.0
140°	509.0	528.1	547.3	552.1	596.7	656.2	685.8	731.6	823.0	891.5	902.6
142.5°	522.9	540.6	558.4	562.7	603.8	658.5	685.8	726.0	806.3	866.5	876.1
145°	544.2	559.7	575.0	578.9	613.0	658.6	681.3	714.1	779.8	829.0	836.1
147.5°	565.4	580.5	595.5	599.3	626.6	663.0	681.3	707.1	758.8	797.5	803.5
150°	579.4	592.9	606.6	610.0	633.8	665.4	681.3	703.1	746.7	779.5	784.4
152.5°	593.7	604.1	614.3	616.9	638.3	666.9	681.3	699.9	737.1	765.1	768.8
155°	615.0	622.6	630.3	632.2	648.5	670.3	681.3	696.1	725.8	748.0	750.4
157.5°	630.8	638.2	645.6	647.5	658.8	673.8	681.3	692.8	715.8	733.2	734.8
160°	641.4	647.2	653.0	654.4	663.3	675.3	681.3	691.1	710.8	725.7	726.7
162.5°	652.1	656.5	660.7	661.8	668.3	677.0	681.3	689.6	706.3	718.8	719.7
165°	663.6	667.6	671.5	672.5	675.4	679.3	681.3	687.2	699.2	708.2	709.2
167.5°	674.3	676.2	678.0	678.5	681.0	684.3	685.8	689.7	697.6	703.5	703.9
170°	681.3	683.2	684.9	685.4	685.5	685.7	685.8	689.7	697.6	703.5	703.5
172.5°	684.9	685.3	685.7	685.8	685.8	685.8	685.8	688.9	695.1	699.8	699.4
175°	690.0	690.0	690.0	690.0	688.6	686.7	685.8	687.8	691.7	694.7	694.7
177.5°	690.0	690.0	690.0	690.0	688.9	687.5	686.8	688.4	691.5	693.8	693.4
180°	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1086.1	1083.2	1086.1	1084.1	1085.1	1082.2	1073.1	1070.1	1073.1	1076.1	1076.1
5°	1099.2	1097.1	1099.2	1099.2	1098.2	1096.1	1086.1	1084.1	1086.1	1087.1	1085.1
7.5°	1103.2	1100.2	1103.2	1101.2	1101.2	1099.2	1089.1	1087.1	1088.1	1091.1	1088.1
10°	1103.2	1100.2	1103.2	1102.2	1101.2	1099.2	1089.1	1085.1	1085.1	1088.1	1085.1
12.5°	1098.2	1096.1	1098.2	1096.1	1096.1	1094.1	1084.1	1080.1	1081.2	1082.2	1078.1
15°	1090.1	1087.1	1090.1	1088.1	1089.1	1086.1	1075.1	1071.1	1071.1	1073.1	1066.1
17.5°	1078.1	1074.1	1078.1	1077.1	1076.1	1074.1	1064.0	1060.0	1059.0	1060.0	1055.1
20°	1064.0	1061.0	1064.0	1063.0	1063.0	1059.0	1049.1	1044.0	1044.0	1044.0	1039.0
22.5°	1042.0	1039.0	1042.0	1044.0	1044.0	1043.0	1034.0	1027.0	1025.0	1025.0	1019.0
25°	1017.0	1014.0	1017.0	1017.0	1016.0	1017.0	1014.0	1009.9	1007.0	1004.0	998.0
27.5°	992.9	990.9	992.9	990.9	992.9	989.9	988.9	987.9	983.9	981.0	972.9
30°	968.9	966.9	968.9	966.9	964.9	962.8	957.9	955.9	959.8	957.9	944.8
32.5°	938.8	936.8	938.8	938.8	936.8	936.8	928.8	925.8	926.8	932.9	920.8
35°	907.8	904.8	907.8	906.8	907.8	904.8	899.8	898.8	894.7	901.8	892.7
37.5°	871.7	868.7	871.7	871.7	871.7	873.7	869.7	866.7	860.6	869.7	862.6
40°	834.6	830.7	834.6	833.7	834.6	836.6	834.6	832.7	826.6	833.7	827.6
42.5°	792.5	791.5	792.5	793.5	793.5	797.6	800.6	796.6	794.5	789.5	793.5
45°	747.5	745.4	747.5	749.5	750.5	752.5	761.4	761.4	758.5	750.5	756.5
47.5°	699.4	694.3	699.4	705.4	705.4	708.4	717.4	724.4	719.4	709.4	712.4
50°	648.3	649.3	648.3	652.3	652.3	663.3	670.3	677.3	682.4	670.3	656.3
52.5°	598.2	597.2	598.2	601.2	605.2	610.1	622.2	629.3	637.2	630.3	608.2
55°	548.1	550.1	548.1	549.1	551.1	554.1	572.1	579.2	594.1	585.2	562.1
57.5°	498.0	495.0	498.0	500.0	501.0	504.0	519.0	532.1	541.0	542.0	514.0
60°	439.8	435.8	439.8	448.9	450.9	452.9	466.9	479.0	486.9	489.9	460.9
62.5°	388.7	381.8	388.7	394.8	398.8	403.8	413.8	431.9	438.8	439.8	398.8
65°	334.7	331.7	334.7	346.7	347.7	353.7	364.7	377.8	392.7	390.7	331.7
67.5°	285.6	285.6	285.6	293.6	299.6	302.6	316.6	322.6	341.6	343.7	276.6
70°	240.4	239.4	240.4	246.5	250.5	257.5	270.5	277.6	292.5	297.6	224.4
72.5°	197.4	196.4	197.4	202.4	206.4	212.4	223.4	231.5	244.5	250.5	174.3
75°	159.4	157.3	159.4	163.3	162.3	170.3	179.4	187.3	199.4	203.4	129.3
77.5°	122.2	122.2	122.2	126.3	126.3	134.3	138.2	148.3	155.3	161.4	95.2
80°	91.1	90.1	91.1	92.2	92.2	96.2	103.2	110.3	116.2	116.2	65.1
82.5°	64.1	62.2	64.1	64.1	64.1	66.1	70.1	72.1	76.2	79.2	41.0
85°	40.0	40.0	40.0	41.0	40.0	42.1	43.1	45.1	45.1	43.1	25.0
87.5°	26.1	25.0	26.1	25.0	25.0	24.0	24.0	24.0	23.0	22.0	14.0
90°	17.6	17.6	17.6	17.6	17.6	23.5	31.3	35.2	30.2	20.3	12.9
92.5°	70.4	56.5	70.4	84.5	87.9	124.7	173.7	198.2	174.0	125.6	89.3
95°	245.7	203.3	245.7	288.1	298.7	392.2	517.0	579.4	489.3	309.2	174.1
97.5°	588.7	508.1	588.7	669.4	689.6	748.8	827.6	867.0	716.8	416.5	191.2
100°	848.2	752.1	848.2	944.4	968.4	964.1	958.4	955.5	788.8	455.6	205.7
102.5°	1103.6	1021.2	1103.6	1185.8	1206.5	1131.2	1030.7	980.5	811.4	473.5	220.0
105°	1429.0	1384.7	1429.0	1473.3	1484.3	1315.4	1090.2	977.7	814.0	486.7	241.3
107.5°	1642.2	1652.9	1642.2	1631.5	1628.9	1393.3	1079.2	922.1	777.8	489.2	272.8
110°	1723.5	1769.6	1723.5	1677.5	1665.9	1402.6	1051.4	875.8	745.7	485.5	290.3





TEST NUMBER: P934687

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1730.7	1801.6	1730.7	1659.9	1642.2	1372.7	1013.3	833.7	717.6	485.6	311.6
115°	1684.8	1783.0	1684.8	1586.6	1562.1	1302.5	956.3	783.2	685.4	490.1	343.6
117.5°	1587.5	1696.4	1587.5	1478.7	1451.5	1217.1	904.7	748.4	665.3	499.3	374.7
120°	1509.1	1614.9	1509.1	1403.4	1376.9	1162.7	877.3	734.6	658.6	506.7	392.7
122.5°	1432.7	1537.1	1432.7	1328.4	1302.3	1109.4	852.4	723.9	655.1	517.3	414.0
125°	1323.9	1420.0	1323.9	1227.7	1203.7	1039.9	821.5	712.3	652.1	531.7	441.3
127.5°	1225.9	1307.0	1225.9	1144.8	1124.5	983.8	796.3	702.6	650.4	546.0	467.7
130°	1168.1	1243.0	1168.1	1093.2	1074.5	949.3	782.4	698.9	651.5	556.6	485.4
132.5°	1115.7	1182.8	1115.7	1048.6	1031.9	919.8	770.3	695.6	652.1	565.0	499.7
135°	1043.9	1101.8	1043.9	986.0	971.6	877.8	752.6	690.0	651.5	574.3	516.4
137.5°	986.3	1033.7	986.3	939.0	927.2	847.8	742.0	689.1	655.5	588.1	537.6
140°	946.9	991.1	946.9	902.6	891.5	823.0	731.6	685.8	656.2	596.7	552.1
142.5°	914.1	952.2	914.1	876.1	866.5	806.3	726.0	685.8	658.5	603.8	562.7
145°	865.0	893.8	865.0	836.1	829.0	779.8	714.1	681.3	658.6	613.0	578.9
147.5°	827.3	851.2	827.3	803.5	797.5	758.8	707.1	681.3	663.0	626.6	599.3
150°	803.7	823.0	803.7	784.4	779.5	746.7	703.1	681.3	665.4	633.8	610.0
152.5°	783.4	798.0	783.4	768.8	765.1	737.1	699.9	681.3	666.9	638.3	616.9
155°	760.0	769.7	760.0	750.4	748.0	725.8	696.1	681.3	670.3	648.5	632.2
157.5°	741.6	748.4	741.6	734.8	733.2	715.8	692.8	681.3	673.8	658.8	647.5
160°	730.6	734.6	730.6	726.7	725.7	710.8	691.1	681.3	675.3	663.3	654.4
162.5°	723.4	727.1	723.4	719.7	718.8	706.3	689.6	681.3	677.0	668.3	661.8
165°	713.0	716.9	713.0	709.2	708.2	699.2	687.2	681.3	679.3	675.4	672.5
167.5°	705.6	707.2	705.6	703.9	703.5	697.6	689.7	685.8	684.3	681.0	678.5
170°	703.5	703.5	703.5	703.5	703.5	697.6	689.7	685.8	685.7	685.5	685.4
172.5°	698.0	696.5	698.0	699.4	699.8	695.1	688.9	685.8	685.8	685.8	685.8
175°	694.7	694.7	694.7	694.7	694.7	691.7	687.8	685.8	686.7	688.6	690.0
177.5°	691.7	690.0	691.7	693.4	693.8	691.5	688.4	686.8	687.5	688.9	690.0
180°	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0



TEST NUMBER: P934687

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1074.1	1068.1	1068.1	1058.1	1054.1	1051.1	1046.0	1031.1	1027.0	1023.0	1029.0
5°	1083.2	1072.1	1064.0	1046.0	1031.1	1025.0	1006.0	969.9	945.8	927.8	917.8
7.5°	1085.1	1071.1	1056.1	1028.0	991.9	975.9	917.8	851.7	833.7	817.6	807.6
10°	1083.2	1067.1	1046.0	1004.0	918.8	890.7	832.7	789.5	778.5	775.5	778.5
12.5°	1076.1	1061.0	1032.1	961.8	842.6	823.6	789.5	764.5	762.4	767.5	794.5
15°	1064.0	1050.1	1016.0	905.8	800.6	786.5	762.4	753.5	764.5	799.6	880.8
17.5°	1052.1	1036.0	993.9	850.7	768.5	758.5	741.4	759.4	821.6	868.7	895.7
20°	1036.0	1017.0	968.9	810.5	745.4	736.4	728.4	809.5	856.7	873.7	888.7
22.5°	1017.0	996.9	934.8	782.6	721.4	714.4	719.4	837.6	856.7	868.7	881.8
25°	991.9	974.9	894.7	760.4	702.4	694.3	713.4	834.6	845.6	848.7	874.7
27.5°	968.9	946.8	852.7	740.4	679.4	676.3	718.4	821.6	829.7	832.7	860.6
30°	940.8	907.8	805.6	719.4	655.3	654.3	719.4	805.6	803.6	811.5	839.6
32.5°	911.7	849.7	752.5	693.3	632.3	631.3	712.4	781.6	779.6	790.5	811.5
35°	884.7	804.6	680.4	663.3	603.2	604.2	695.3	753.5	754.5	764.5	777.5
37.5°	856.7	765.5	601.2	630.3	575.1	575.1	672.3	727.4	725.4	728.4	746.5
40°	823.6	704.4	531.1	587.1	549.1	546.1	644.2	699.4	692.3	691.3	716.4
42.5°	788.5	637.2	479.0	530.1	519.0	515.0	610.1	665.3	652.3	655.3	687.3
45°	750.5	619.2	438.8	447.9	487.9	485.0	573.1	626.2	617.2	625.2	658.3
47.5°	712.4	583.2	425.8	371.7	454.9	453.9	532.1	588.1	583.2	591.1	626.2
50°	660.2	543.0	424.8	318.6	417.8	421.8	483.0	551.1	551.1	558.1	595.2
52.5°	593.1	493.9	385.8	288.5	374.7	386.7	439.8	519.0	521.0	528.1	561.0
55°	532.1	442.8	357.7	265.5	323.6	349.7	397.8	485.9	489.9	497.0	527.0
57.5°	475.9	368.7	351.7	238.4	276.6	301.6	360.8	453.9	455.9	461.9	490.9
60°	415.8	266.5	322.6	209.4	235.5	254.5	326.6	415.8	422.8	426.8	451.9
62.5°	347.7	193.4	292.5	189.3	215.4	219.4	298.6	379.8	388.7	391.7	406.8
65°	247.5	162.3	248.5	172.3	194.4	195.4	268.5	342.6	350.7	355.7	366.7
67.5°	167.3	132.3	189.3	156.3	178.4	179.4	239.4	299.6	310.7	314.6	321.6
70°	116.2	88.1	140.2	139.2	160.4	162.3	208.4	260.6	270.5	273.5	277.6
72.5°	85.2	71.1	116.2	125.2	141.2	143.3	176.4	216.4	226.5	229.5	231.5
75°	65.1	75.1	94.2	109.3	120.2	121.2	144.3	176.4	183.4	185.4	186.4
77.5°	52.1	70.1	69.1	88.1	98.2	96.2	113.2	136.3	142.2	142.2	142.2
80°	39.0	55.1	52.1	63.1	72.1	70.1	81.2	97.2	99.2	101.2	100.2
82.5°	29.1	35.1	35.1	40.0	48.1	46.1	54.1	63.1	63.1	63.1	65.1
85°	18.0	20.0	16.0	21.0	27.1	26.1	30.1	34.1	35.1	35.1	33.1
87.5°	11.1	9.1	5.0	8.0	12.1	12.1	14.0	15.0	14.0	14.0	14.0
90°	12.1	8.3	4.6	8.3	12.1	12.9	20.3	30.2	35.2	31.3	23.5
92.5°	81.5	50.0	18.5	50.0	81.5	89.3	125.6	174.0	198.2	173.7	124.7
95°	159.7	102.1	44.4	102.1	159.7	174.1	309.2	489.3	579.4	517.0	392.2
97.5°	178.5	127.7	76.9	127.7	178.5	191.2	416.5	716.8	867.0	827.6	748.8
100°	194.1	148.0	101.9	148.0	194.1	205.7	455.6	788.8	955.5	958.4	964.1
102.5°	209.3	166.2	123.2	166.2	209.3	220.0	473.5	811.4	980.5	1030.7	1131.2
105°	232.3	195.8	159.4	195.8	232.3	241.3	486.7	814.0	977.7	1090.2	1315.4
107.5°	264.3	230.4	196.4	230.4	264.3	272.8	489.2	777.8	922.1	1079.2	1393.3
110°	282.7	252.1	221.4	252.1	282.7	290.3	485.5	745.7	875.8	1051.4	1402.6



TEST NUMBER: P934687

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	304.4	275.1	245.9	275.1	304.4	311.6	485.6	717.6	833.7	1013.3	1372.7
115°	336.8	310.0	283.0	310.0	336.8	343.6	490.1	685.4	783.2	956.3	1302.5
117.5°	368.5	344.0	319.5	344.0	368.5	374.7	499.3	665.3	748.4	904.7	1217.1
120°	386.9	363.9	340.8	363.9	386.9	392.7	506.7	658.6	734.6	877.3	1162.7
122.5°	408.3	385.0	361.7	385.0	408.3	414.0	517.3	655.1	723.9	852.4	1109.4
125°	436.0	414.8	393.6	414.8	436.0	441.3	531.7	652.1	712.3	821.5	1039.9
127.5°	462.3	441.0	419.6	441.0	462.3	467.7	546.0	650.4	702.6	796.3	983.8
130°	479.6	456.6	433.5	456.6	479.6	485.4	556.6	651.5	698.9	782.4	949.3
132.5°	493.9	470.9	447.8	470.9	493.9	499.7	565.0	652.1	695.6	770.3	919.8
135°	511.1	490.1	469.1	490.1	511.1	516.4	574.3	651.5	690.0	752.6	877.8
137.5°	532.5	511.6	490.9	511.6	532.5	537.6	588.1	655.5	689.1	742.0	847.8
140°	547.3	528.1	509.0	528.1	547.3	552.1	596.7	656.2	685.8	731.6	823.0
142.5°	558.4	540.6	522.9	540.6	558.4	562.7	603.8	658.5	685.8	726.0	806.3
145°	575.0	559.7	544.2	559.7	575.0	578.9	613.0	658.6	681.3	714.1	779.8
147.5°	595.5	580.5	565.4	580.5	595.5	599.3	626.6	663.0	681.3	707.1	758.8
150°	606.6	592.9	579.4	592.9	606.6	610.0	633.8	665.4	681.3	703.1	746.7
152.5°	614.3	604.1	593.7	604.1	614.3	616.9	638.3	666.9	681.3	699.9	737.1
155°	630.3	622.6	615.0	622.6	630.3	632.2	648.5	670.3	681.3	696.1	725.8
157.5°	645.6	638.2	630.8	638.2	645.6	647.5	658.8	673.8	681.3	692.8	715.8
160°	653.0	647.2	641.4	647.2	653.0	654.4	663.3	675.3	681.3	691.1	710.8
162.5°	660.7	656.5	652.1	656.5	660.7	661.8	668.3	677.0	681.3	689.6	706.3
165°	671.5	667.6	663.6	667.6	671.5	672.5	675.4	679.3	681.3	687.2	699.2
167.5°	678.0	676.2	674.3	676.2	678.0	678.5	681.0	684.3	685.8	689.7	697.6
170°	684.9	683.2	681.3	683.2	684.9	685.4	685.5	685.7	685.8	689.7	697.6
172.5°	685.7	685.3	684.9	685.3	685.7	685.8	685.8	685.8	685.8	688.9	695.1
175°	690.0	690.0	690.0	690.0	690.0	690.0	688.6	686.7	685.8	687.8	691.7
177.5°	690.0	690.0	690.0	690.0	690.0	690.0	688.9	687.5	686.8	688.4	691.5
180°	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0



TEST NUMBER: P934687

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1022.0	1019.0	1023.0	1011.9	1023.0	1019.0	1022.0	1029.0	1023.0	1027.0	1031.1
5°	896.8	891.7	875.7	862.6	875.7	891.7	896.8	917.8	927.8	945.8	969.9
7.5°	801.6	797.6	793.5	785.5	793.5	797.6	801.6	807.6	817.6	833.7	851.7
10°	780.6	781.6	787.5	786.5	787.5	781.6	780.6	778.5	775.5	778.5	789.5
12.5°	834.6	843.6	876.7	874.7	876.7	843.6	834.6	794.5	767.5	762.4	764.5
15°	896.8	899.8	906.8	907.8	906.8	899.8	896.8	880.8	799.6	764.5	753.5
17.5°	902.8	903.8	908.8	908.8	908.8	903.8	902.8	895.7	868.7	821.6	759.4
20°	897.8	899.8	909.7	911.7	909.7	899.8	897.8	888.7	873.7	856.7	809.5
22.5°	895.7	899.8	907.8	906.8	907.8	899.8	895.7	881.8	868.7	856.7	837.6
25°	885.7	885.7	886.7	887.7	886.7	885.7	885.7	874.7	848.7	845.6	834.6
27.5°	864.7	866.7	872.7	871.7	872.7	866.7	864.7	860.6	832.7	829.7	821.6
30°	845.6	843.6	838.6	834.6	838.6	843.6	845.6	839.6	811.5	803.6	805.6
32.5°	813.6	808.6	803.6	800.6	803.6	808.6	813.6	811.5	790.5	779.6	781.6
35°	775.5	776.5	775.5	772.5	775.5	776.5	775.5	777.5	764.5	754.5	753.5
37.5°	748.5	750.5	749.5	745.4	749.5	750.5	748.5	746.5	728.4	725.4	727.4
40°	720.4	721.4	720.4	717.4	720.4	721.4	720.4	716.4	691.3	692.3	699.4
42.5°	693.3	692.3	689.3	687.3	689.3	692.3	693.3	687.3	655.3	652.3	665.3
45°	662.3	663.3	657.3	654.3	657.3	663.3	662.3	658.3	625.2	617.2	626.2
47.5°	631.3	631.3	626.2	623.2	626.2	631.3	631.3	626.2	591.1	583.2	588.1
50°	598.2	597.2	590.1	589.1	590.1	597.2	598.2	595.2	558.1	551.1	551.1
52.5°	560.1	560.1	561.0	563.1	561.0	560.1	560.1	561.0	528.1	521.0	519.0
55°	527.0	528.1	535.1	537.0	535.1	528.1	527.0	527.0	497.0	489.9	485.9
57.5°	492.9	492.9	498.0	498.0	498.0	492.9	492.9	490.9	461.9	455.9	453.9
60°	453.9	455.9	459.9	458.9	459.9	455.9	453.9	451.9	426.8	422.8	415.8
62.5°	412.8	414.8	415.8	413.8	415.8	414.8	412.8	406.8	391.7	388.7	379.8
65°	369.7	371.7	372.7	370.7	372.7	371.7	369.7	366.7	355.7	350.7	342.6
67.5°	325.6	324.6	323.6	327.7	323.6	324.6	325.6	321.6	314.6	310.7	299.6
70°	280.6	280.6	279.6	281.6	279.6	280.6	280.6	277.6	273.5	270.5	260.6
72.5°	232.5	231.5	235.5	232.5	235.5	231.5	232.5	231.5	229.5	226.5	216.4
75°	185.4	187.3	185.4	188.3	185.4	187.3	185.4	186.4	185.4	183.4	176.4
77.5°	141.2	143.3	141.2	141.2	141.2	143.3	141.2	142.2	142.2	142.2	136.3
80°	100.2	99.2	99.2	98.2	99.2	99.2	100.2	100.2	101.2	99.2	97.2
82.5°	64.1	63.1	63.1	65.1	63.1	63.1	64.1	65.1	63.1	63.1	63.1
85°	35.1	36.1	34.1	34.1	34.1	36.1	35.1	33.1	35.1	35.1	34.1
87.5°	13.0	12.1	12.1	12.1	12.1	12.1	13.0	14.0	14.0	14.0	15.0
90°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	23.5	31.3	35.2	30.2
92.5°	87.9	84.5	70.4	56.5	70.4	84.5	87.9	124.7	173.7	198.2	174.0
95°	298.7	288.1	245.7	203.3	245.7	288.1	298.7	392.2	517.0	579.4	489.3
97.5°	689.6	669.4	588.7	508.1	588.7	669.4	689.6	748.8	827.6	867.0	716.8
100°	968.4	944.4	848.2	752.1	848.2	944.4	968.4	964.1	958.4	955.5	788.8
102.5°	1206.5	1185.8	1103.6	1021.2	1103.6	1185.8	1206.5	1131.2	1030.7	980.5	811.4
105°	1484.3	1473.3	1429.0	1384.7	1429.0	1473.3	1484.3	1315.4	1090.2	977.7	814.0
107.5°	1628.9	1631.5	1642.2	1652.9	1642.2	1631.5	1628.9	1393.3	1079.2	922.1	777.8
110°	1665.9	1677.5	1723.5	1769.6	1723.5	1677.5	1665.9	1402.6	1051.4	875.8	745.7



TEST NUMBER: P934687

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1642.2	1659.9	1730.7	1801.6	1730.7	1659.9	1642.2	1372.7	1013.3	833.7	717.6
115°	1562.1	1586.6	1684.8	1783.0	1684.8	1586.6	1562.1	1302.5	956.3	783.2	685.4
117.5°	1451.5	1478.7	1587.5	1696.4	1587.5	1478.7	1451.5	1217.1	904.7	748.4	665.3
120°	1376.9	1403.4	1509.1	1614.9	1509.1	1403.4	1376.9	1162.7	877.3	734.6	658.6
122.5°	1302.3	1328.4	1432.7	1537.1	1432.7	1328.4	1302.3	1109.4	852.4	723.9	655.1
125°	1203.7	1227.7	1323.9	1420.0	1323.9	1227.7	1203.7	1039.9	821.5	712.3	652.1
127.5°	1124.5	1144.8	1225.9	1307.0	1225.9	1144.8	1124.5	983.8	796.3	702.6	650.4
130°	1074.5	1093.2	1168.1	1243.0	1168.1	1093.2	1074.5	949.3	782.4	698.9	651.5
132.5°	1031.9	1048.6	1115.7	1182.8	1115.7	1048.6	1031.9	919.8	770.3	695.6	652.1
135°	971.6	986.0	1043.9	1101.8	1043.9	986.0	971.6	877.8	752.6	690.0	651.5
137.5°	927.2	939.0	986.3	1033.7	986.3	939.0	927.2	847.8	742.0	689.1	655.5
140°	891.5	902.6	946.9	991.1	946.9	902.6	891.5	823.0	731.6	685.8	656.2
142.5°	866.5	876.1	914.1	952.2	914.1	876.1	866.5	806.3	726.0	685.8	658.5
145°	829.0	836.1	865.0	893.8	865.0	836.1	829.0	779.8	714.1	681.3	658.6
147.5°	797.5	803.5	827.3	851.2	827.3	803.5	797.5	758.8	707.1	681.3	663.0
150°	779.5	784.4	803.7	823.0	803.7	784.4	779.5	746.7	703.1	681.3	665.4
152.5°	765.1	768.8	783.4	798.0	783.4	768.8	765.1	737.1	699.9	681.3	666.9
155°	748.0	750.4	760.0	769.7	760.0	750.4	748.0	725.8	696.1	681.3	670.3
157.5°	733.2	734.8	741.6	748.4	741.6	734.8	733.2	715.8	692.8	681.3	673.8
160°	725.7	726.7	730.6	734.6	730.6	726.7	725.7	710.8	691.1	681.3	675.3
162.5°	718.8	719.7	723.4	727.1	723.4	719.7	718.8	706.3	689.6	681.3	677.0
165°	708.2	709.2	713.0	716.9	713.0	709.2	708.2	699.2	687.2	681.3	679.3
167.5°	703.5	703.9	705.6	707.2	705.6	703.9	703.5	697.6	689.7	685.8	684.3
170°	703.5	703.5	703.5	703.5	703.5	703.5	703.5	697.6	689.7	685.8	685.7
172.5°	699.8	699.4	698.0	696.5	698.0	699.4	699.8	695.1	688.9	685.8	685.8
175°	694.7	694.7	694.7	694.7	694.7	694.7	694.7	691.7	687.8	685.8	686.7
177.5°	693.8	693.4	691.7	690.0	691.7	693.4	693.8	691.5	688.4	686.8	687.5
180°	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0	690.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1046.0	1051.1	1054.1	1058.1	1068.1
5°	1006.0	1025.0	1031.1	1046.0	1064.0
7.5°	917.8	975.9	991.9	1028.0	1056.1
10°	832.7	890.7	918.8	1004.0	1046.0
12.5°	789.5	823.6	842.6	961.8	1032.1
15°	762.4	786.5	800.6	905.8	1016.0
17.5°	741.4	758.5	768.5	850.7	993.9
20°	728.4	736.4	745.4	810.5	968.9
22.5°	719.4	714.4	721.4	782.6	934.8
25°	713.4	694.3	702.4	760.4	894.7
27.5°	718.4	676.3	679.4	740.4	852.7
30°	719.4	654.3	655.3	719.4	805.6
32.5°	712.4	631.3	632.3	693.3	752.5
35°	695.3	604.2	603.2	663.3	680.4
37.5°	672.3	575.1	575.1	630.3	601.2
40°	644.2	546.1	549.1	587.1	531.1
42.5°	610.1	515.0	519.0	530.1	479.0
45°	573.1	485.0	487.9	447.9	438.8
47.5°	532.1	453.9	454.9	371.7	425.8
50°	483.0	421.8	417.8	318.6	424.8
52.5°	439.8	386.7	374.7	288.5	385.8
55°	397.8	349.7	323.6	265.5	357.7
57.5°	360.8	301.6	276.6	238.4	351.7
60°	326.6	254.5	235.5	209.4	322.6
62.5°	298.6	219.4	215.4	189.3	292.5
65°	268.5	195.4	194.4	172.3	248.5
67.5°	239.4	179.4	178.4	156.3	189.3
70°	208.4	162.3	160.4	139.2	140.2
72.5°	176.4	143.3	141.2	125.2	116.2
75°	144.3	121.2	120.2	109.3	94.2
77.5°	113.2	96.2	98.2	88.1	69.1
80°	81.2	70.1	72.1	63.1	52.1
82.5°	54.1	46.1	48.1	40.0	35.1
85°	30.1	26.1	27.1	21.0	16.0
87.5°	14.0	12.1	12.1	8.0	5.0
90°	20.3	12.9	12.1	8.3	4.6
92.5°	125.6	89.3	81.5	50.0	18.5
95°	309.2	174.1	159.7	102.1	44.4
97.5°	416.5	191.2	178.5	127.7	76.9
100°	455.6	205.7	194.1	148.0	101.9
102.5°	473.5	220.0	209.3	166.2	123.2
105°	486.7	241.3	232.3	195.8	159.4
107.5°	489.2	272.8	264.3	230.4	196.4
110°	485.5	290.3	282.7	252.1	221.4



TEST NUMBER: P934687

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	485.6	311.6	304.4	275.1	245.9
115°	490.1	343.6	336.8	310.0	283.0
117.5°	499.3	374.7	368.5	344.0	319.5
120°	506.7	392.7	386.9	363.9	340.8
122.5°	517.3	414.0	408.3	385.0	361.7
125°	531.7	441.3	436.0	414.8	393.6
127.5°	546.0	467.7	462.3	441.0	419.6
130°	556.6	485.4	479.6	456.6	433.5
132.5°	565.0	499.7	493.9	470.9	447.8
135°	574.3	516.4	511.1	490.1	469.1
137.5°	588.1	537.6	532.5	511.6	490.9
140°	596.7	552.1	547.3	528.1	509.0
142.5°	603.8	562.7	558.4	540.6	522.9
145°	613.0	578.9	575.0	559.7	544.2
147.5°	626.6	599.3	595.5	580.5	565.4
150°	633.8	610.0	606.6	592.9	579.4
152.5°	638.3	616.9	614.3	604.1	593.7
155°	648.5	632.2	630.3	622.6	615.0
157.5°	658.8	647.5	645.6	638.2	630.8
160°	663.3	654.4	653.0	647.2	641.4
162.5°	668.3	661.8	660.7	656.5	652.1
165°	675.4	672.5	671.5	667.6	663.6
167.5°	681.0	678.5	678.0	676.2	674.3
170°	685.5	685.4	684.9	683.2	681.3
172.5°	685.8	685.8	685.7	685.3	684.9
175°	688.6	690.0	690.0	690.0	690.0
177.5°	688.9	690.0	690.0	690.0	690.0
180°	690.0	690.0	690.0	690.0	690.0



TEST NUMBER: P934687

CATALOG NUMBER: SQ4-FA-075U-050D-B2750-1D-UNV-STD-W-6-2700K

**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	10.12	10.88	11.17	11.94	13.37	12.94	13.71	13.99	14.76	16.19
	3H	10.59	11.27	11.65	12.34	13.79	14.28	14.96	15.34	16.03	17.48
	4H	10.77	11.42	11.85	12.49	13.95	14.72	15.36	15.79	16.43	17.89
	6H	10.89	11.48	11.97	12.55	14.02	14.99	15.59	16.08	16.66	18.13
	8H	10.89	11.45	11.97	12.54	14.00	15.07	15.63	16.15	16.72	18.18
	12H	10.85	11.39	11.95	12.47	13.96	15.10	15.64	16.19	16.72	18.21
4H	2H	11.14	11.78	12.22	12.85	14.31	13.34	13.99	14.42	15.06	16.51
	3H	12.15	12.69	13.24	13.79	15.26	14.83	15.37	15.92	16.47	17.94
	4H	12.43	12.92	13.52	14.01	15.50	15.36	15.85	16.45	16.94	18.43
	6H	12.55	12.97	13.65	14.08	15.56	15.71	16.14	16.82	17.25	18.73
	8H	12.55	12.95	13.65	14.05	15.55	15.82	16.21	16.92	17.32	18.82
	12H	12.51	12.87	13.63	13.98	15.49	15.87	16.23	16.99	17.34	18.85
8H	4H	12.87	13.27	13.97	14.37	15.87	15.47	15.87	16.58	16.97	18.47
	6H	13.13	13.46	14.25	14.60	16.10	15.90	16.23	17.03	17.37	18.87
	8H	13.17	13.46	14.30	14.58	16.10	16.05	16.34	17.18	17.46	18.98
	12H	13.15	13.40	14.28	14.52	16.08	16.15	16.40	17.28	17.52	19.07
12H	4H	12.87	13.23	13.99	14.35	15.85	15.43	15.79	16.55	16.91	18.41
	6H	13.19	13.48	14.32	14.60	16.12	15.90	16.19	17.03	17.31	18.83
	8H	13.25	13.50	14.38	14.62	16.18	16.06	16.31	17.19	17.43	18.98