

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: P934668

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

**Test Information**

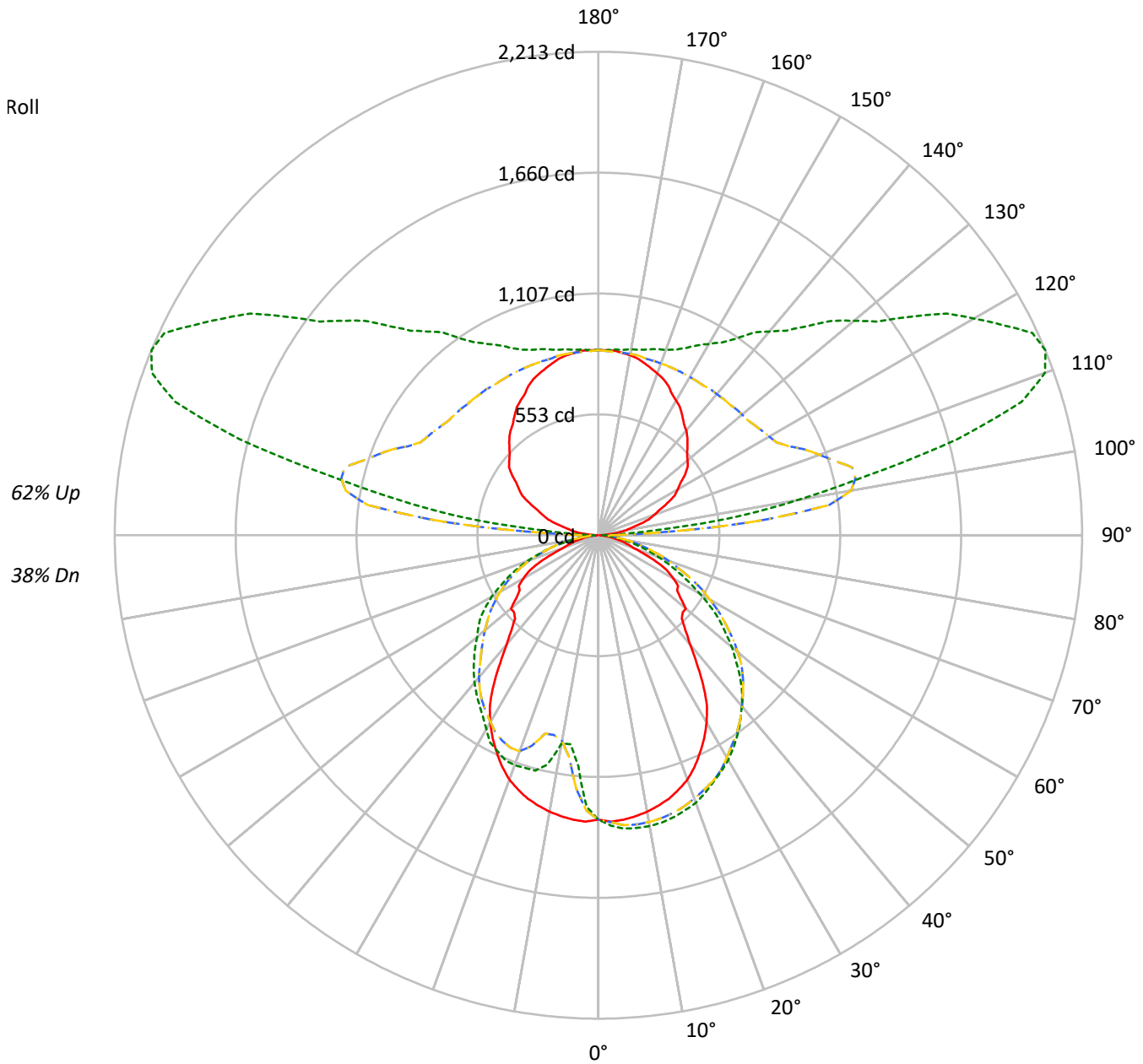
Test Method: LM-79-2019  
Report Number: P934668  
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8872.3 lumens  
Efficiency: N/A  
Efficacy: 129.0 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				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°	6037	6037	6037	6037
5°	6082	6093	6082	4791
10°	6041	6003	6041	4291
15°	5975	5872	5975	4904
20°	5850	5718	5850	4914
25°	5594	5494	5594	4810
30°	5264	5307	5264	4581
35°	4692	5071	4692	4330
40°	3910	4793	3910	4140
45°	3494	4468	3494	3922
50°	3712	4081	3712	3703
55°	3492	3663	3492	3575
60°	3600	3111	3600	3275
65°	3263	2572	3263	2875
70°	2260	2049	2260	2409
75°	1982	1515	1982	1814
80°	1597	1002	1597	1090
85°	918	531	918	450

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5355 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.4	1.3
10°-20°	333.5	3.8
20°-30°	515.5	5.8
30°-40°	615.4	6.9
40°-50°	619.0	7.0
50°-60°	538.6	6.1
60°-70°	381.9	4.3
70°-80°	202.0	2.3
80°-90°	53.6	0.6
90°-100°	413.2	4.7
100°-110°	1086.4	12.2
110°-120°	1126.5	12.7
120°-130°	903.6	10.2
130°-140°	709.0	8.0
140°-150°	544.2	6.1
150°-160°	391.9	4.4
160°-170°	239.8	2.7
170°-180°	81.0	0.9
0°-30°	966.4	10.9
0°-40°	1581.7	17.8
0°-60°	2739.3	30.9
0°-90°	3376.7	38.1
90°-120°	2626.1	29.6
90°-150°	4782.9	53.9
90°-180°	5496.0	61.9
0°-180°	8872.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1301	1301	1301	1301	1301	
5°	1307	1348	1307	1060	1307	124
15°	1248	1336	1248	1115	1248	351
25°	1099	1246	1099	1091	1099	505
35°	836	1112	836	949	836	517
45°	539	916	539	804	539	432
55°	439	676	439	660	439	404
65°	305	408	305	456	305	292
75°	116	193	116	231	116	122
85°	20	49	20	42	20	27
90°	6	22	6	22	6	6
95°	55	250	55	250	55	61
105°	196	1701	196	1701	196	207
115°	348	2190	348	2190	348	343
125°	484	1744	484	1744	484	429
135°	576	1354	576	1354	576	446
145°	668	1098	668	1098	668	419
155°	756	946	756	946	756	347
165°	815	881	815	881	815	230
175°	848	854	848	854	848	80
180°	848	848	848	848	848	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1312.1	1312.1	1319.6	1322.0	1322.0	1318.3	1314.6	1318.3	1329.4	1333.0	1331.9
5°	1307.3	1317.1	1330.7	1333.0	1335.5	1334.3	1331.9	1334.3	1346.6	1349.1	1350.3
7.5°	1297.3	1315.9	1333.0	1336.8	1340.5	1336.8	1335.5	1338.0	1350.3	1352.8	1352.8
10°	1285.0	1310.9	1330.7	1333.0	1336.8	1333.0	1333.0	1338.0	1350.3	1352.8	1354.0
12.5°	1267.8	1303.5	1322.0	1324.4	1329.4	1328.2	1326.9	1331.9	1344.1	1346.6	1346.6
15°	1248.2	1290.0	1307.3	1309.6	1318.3	1315.9	1315.9	1320.7	1334.3	1338.0	1336.8
17.5°	1221.1	1272.8	1292.5	1296.2	1302.3	1301.1	1302.3	1307.3	1319.6	1322.0	1323.2
20°	1190.3	1249.3	1272.8	1276.4	1282.6	1282.6	1282.6	1288.7	1301.1	1306.0	1306.0
22.5°	1148.4	1224.8	1249.3	1251.8	1259.3	1259.3	1261.6	1270.3	1281.4	1282.6	1282.6
25°	1099.2	1197.7	1218.6	1225.9	1233.4	1237.1	1240.7	1245.7	1249.3	1248.2	1249.3
27.5°	1047.5	1163.2	1190.3	1195.2	1205.0	1208.8	1213.7	1214.9	1216.1	1219.8	1217.4
30°	989.6	1115.2	1155.8	1160.8	1176.8	1179.2	1174.3	1176.8	1182.9	1185.4	1187.9
32.5°	924.4	1043.8	1120.1	1131.2	1146.0	1138.6	1137.4	1141.1	1150.9	1150.9	1153.4
35°	835.7	988.4	1086.9	1096.7	1107.8	1099.2	1104.2	1105.4	1111.5	1115.2	1114.0
37.5°	738.6	940.5	1052.4	1059.8	1068.5	1057.4	1064.7	1068.5	1073.3	1070.9	1070.9
40°	652.4	865.3	1011.9	1016.7	1024.1	1015.5	1022.9	1025.3	1027.8	1025.3	1024.1
42.5°	588.3	782.9	968.7	974.9	969.9	976.2	978.5	983.5	979.8	974.9	974.9
45°	539.1	760.7	921.9	929.3	921.9	931.8	935.5	935.5	924.4	921.9	920.7
47.5°	523.2	716.4	875.2	875.2	871.4	883.8	890.0	881.4	870.3	866.6	866.6
50°	521.9	667.2	811.2	806.3	823.4	838.2	832.1	823.4	814.8	801.3	801.3
52.5°	473.9	606.9	728.7	747.2	774.3	782.9	773.0	764.4	749.7	743.4	738.6
55°	439.4	544.1	653.6	690.6	718.8	729.9	711.5	702.9	680.7	677.0	674.5
57.5°	432.1	453.0	584.7	631.5	665.9	664.7	653.6	637.6	619.2	615.5	614.2
60°	396.4	327.4	510.8	566.2	601.9	598.2	588.3	573.6	556.4	553.9	551.4
62.5°	359.5	237.6	427.1	489.9	540.3	539.1	530.5	508.4	496.0	489.9	485.0
65°	305.2	199.4	304.0	407.5	480.0	482.5	464.1	448.0	434.5	427.1	425.9
67.5°	232.6	162.5	205.6	339.7	422.2	419.8	396.4	389.0	371.8	368.1	360.7
70°	172.3	108.3	142.8	275.8	365.6	359.5	340.9	332.4	316.3	307.7	302.8
72.5°	142.8	87.4	104.6	214.2	307.7	300.4	284.3	274.5	261.0	253.6	248.6
75°	115.7	92.3	80.0	158.8	249.9	244.9	230.2	220.3	209.2	199.4	200.6
77.5°	85.0	86.2	64.0	116.9	198.2	190.8	182.2	169.9	164.9	155.1	155.1
80°	64.0	67.7	48.0	80.0	142.8	142.8	135.4	126.8	118.2	113.2	113.2
82.5°	43.0	43.0	35.7	50.5	97.3	93.5	88.6	86.2	81.2	78.7	78.7
85°	19.7	24.6	22.1	30.7	53.0	55.4	55.4	53.0	51.7	49.3	50.5
87.5°	6.1	11.1	13.6	17.3	27.1	28.4	29.5	29.5	29.5	30.7	30.7
90°	5.7	10.3	14.9	16.0	25.1	37.2	43.2	38.5	28.8	21.7	21.7
92.5°	22.8	61.5	100.2	109.8	154.4	213.8	243.6	213.5	153.3	108.1	103.8
95°	54.6	125.4	196.2	213.9	379.8	601.1	711.8	635.1	481.9	367.0	354.0
97.5°	94.4	156.9	219.4	235.0	511.7	880.6	1065.1	1016.6	919.8	847.2	822.4
100°	125.2	181.8	238.5	252.6	559.7	969.1	1173.7	1177.3	1184.4	1189.7	1160.2
102.5°	151.3	204.2	257.0	270.3	581.6	996.9	1204.5	1266.1	1389.6	1482.2	1456.8
105°	195.7	240.5	285.2	296.4	598.0	1000.0	1201.1	1339.4	1616.0	1823.5	1809.9
107.5°	241.3	283.0	324.7	335.1	601.0	955.5	1132.8	1325.7	1711.6	2001.0	2004.3
110°	272.0	309.6	347.3	356.7	596.4	916.0	1075.9	1291.6	1723.0	2046.6	2060.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	302.1	338.0	373.9	382.9	596.6	881.6	1024.1	1244.9	1686.4	2017.6	2039.3
115°	347.6	380.8	413.9	422.1	602.1	842.1	962.1	1174.7	1600.1	1919.1	1949.3
117.5°	392.6	422.7	452.8	460.3	613.4	817.4	919.4	1111.3	1495.2	1783.1	1816.5
120°	418.7	447.0	475.4	482.4	622.4	809.0	902.4	1077.7	1428.5	1691.5	1724.0
122.5°	444.3	473.0	501.5	508.7	635.5	804.6	889.2	1047.2	1363.1	1599.9	1631.9
125°	483.6	509.7	535.7	542.2	653.1	801.1	875.0	1009.2	1277.4	1478.7	1508.2
127.5°	515.5	541.8	568.1	574.7	670.8	799.0	863.1	978.3	1208.6	1381.4	1406.3
130°	532.5	560.8	589.2	596.2	683.7	800.3	858.6	961.1	1166.2	1320.0	1343.0
132.5°	550.2	578.5	606.9	613.9	694.1	801.1	854.6	946.3	1130.0	1267.6	1288.3
135°	576.3	602.1	628.0	634.4	705.5	800.3	847.8	924.7	1078.4	1193.6	1211.4
137.5°	603.1	628.6	654.1	660.6	722.6	805.3	846.6	911.5	1041.6	1139.0	1153.5
140°	625.3	648.8	672.3	678.2	733.0	806.1	842.6	898.8	1011.0	1095.3	1108.9
142.5°	642.4	664.1	685.9	691.3	741.8	809.0	842.6	891.9	990.6	1064.5	1076.2
145°	668.5	687.5	706.4	711.2	753.2	809.0	836.9	877.3	958.0	1018.5	1027.3
147.5°	694.7	713.1	731.7	736.3	769.9	814.5	836.9	868.7	932.1	979.7	987.1
150°	711.8	728.5	745.2	749.3	778.5	817.5	836.9	863.7	917.3	957.5	963.5
152.5°	729.4	742.0	754.7	757.8	784.2	819.3	836.9	859.8	905.6	939.9	944.4
155°	755.5	764.9	774.3	776.6	796.7	823.5	836.9	855.1	891.5	918.9	921.8
157.5°	774.9	784.0	793.1	795.4	809.2	827.7	836.9	851.1	879.4	900.6	902.7
160°	788.0	795.1	802.2	803.9	814.9	829.6	836.9	849.1	873.4	891.5	892.7
162.5°	801.1	806.4	811.7	813.1	821.1	831.6	836.9	847.2	867.7	883.0	884.1
165°	815.3	820.1	824.9	826.1	829.7	834.6	836.9	844.3	859.0	870.0	871.2
167.5°	828.4	830.7	833.0	833.5	836.6	840.6	842.6	847.4	857.0	864.3	864.7
170°	836.9	839.2	841.5	842.1	842.3	842.5	842.6	847.4	857.0	864.3	864.3
172.5°	841.5	842.0	842.5	842.6	842.6	842.6	842.6	846.4	854.0	859.7	859.2
175°	847.8	847.8	847.8	847.8	846.0	843.7	842.6	845.0	849.9	853.5	853.5
177.5°	847.8	847.8	847.8	847.8	846.4	844.6	843.7	845.7	849.4	852.3	851.8
180°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1334.3	1330.7	1334.3	1331.9	1333.0	1329.4	1318.3	1314.6	1318.3	1322.0	1322.0
5°	1350.3	1347.8	1350.3	1350.3	1349.1	1346.6	1334.3	1331.9	1334.3	1335.5	1333.0
7.5°	1355.3	1351.6	1355.3	1352.8	1352.8	1350.3	1338.0	1335.5	1336.8	1340.5	1336.8
10°	1355.3	1351.6	1355.3	1354.0	1352.8	1350.3	1338.0	1333.0	1333.0	1336.8	1333.0
12.5°	1349.1	1346.6	1349.1	1346.6	1346.6	1344.1	1331.9	1326.9	1328.2	1329.4	1324.4
15°	1339.2	1335.5	1339.2	1336.8	1338.0	1334.3	1320.7	1315.9	1315.9	1318.3	1309.6
17.5°	1324.4	1319.6	1324.4	1323.2	1322.0	1319.6	1307.3	1302.3	1301.1	1302.3	1296.2
20°	1307.3	1303.5	1307.3	1306.0	1306.0	1301.1	1288.7	1282.6	1282.6	1282.6	1276.4
22.5°	1280.2	1276.4	1280.2	1282.6	1282.6	1281.4	1270.3	1261.6	1259.3	1259.3	1251.8
25°	1249.3	1245.7	1249.3	1249.3	1248.2	1249.3	1245.7	1240.7	1237.1	1233.4	1225.9
27.5°	1219.8	1217.4	1219.8	1217.4	1219.8	1216.1	1214.9	1213.7	1208.8	1205.0	1195.2
30°	1190.3	1187.9	1190.3	1187.9	1185.4	1182.9	1176.8	1174.3	1179.2	1176.8	1160.8
32.5°	1153.4	1150.9	1153.4	1153.4	1150.9	1150.9	1141.1	1137.4	1138.6	1146.0	1131.2
35°	1115.2	1111.5	1115.2	1114.0	1115.2	1111.5	1105.4	1104.2	1099.2	1107.8	1096.7
37.5°	1070.9	1067.2	1070.9	1070.9	1070.9	1073.3	1068.5	1064.7	1057.4	1068.5	1059.8
40°	1025.3	1020.4	1025.3	1024.1	1025.3	1027.8	1025.3	1022.9	1015.5	1024.1	1016.7
42.5°	973.7	972.4	973.7	974.9	974.9	979.8	983.5	978.5	976.2	969.9	974.9
45°	918.2	915.8	918.2	920.7	921.9	924.4	935.5	935.5	931.8	921.9	929.3
47.5°	859.1	853.0	859.1	866.6	866.6	870.3	881.4	890.0	883.8	871.4	875.2
50°	796.4	797.7	796.4	801.3	801.3	814.8	823.4	832.1	838.2	823.4	806.3
52.5°	734.9	733.6	734.9	738.6	743.4	749.7	764.4	773.0	782.9	774.3	747.2
55°	673.3	675.8	673.3	674.5	677.0	680.7	702.9	711.5	729.9	718.8	690.6
57.5°	611.7	608.1	611.7	614.2	615.5	619.2	637.6	653.6	664.7	665.9	631.5
60°	540.3	535.5	540.3	551.4	553.9	556.4	573.6	588.3	598.2	601.9	566.2
62.5°	477.6	468.9	477.6	485.0	489.9	496.0	508.4	530.5	539.1	540.3	489.9
65°	411.1	407.5	411.1	425.9	427.1	434.5	448.0	464.1	482.5	480.0	407.5
67.5°	350.8	350.8	350.8	360.7	368.1	371.8	389.0	396.4	419.8	422.2	339.7
70°	295.4	294.2	295.4	302.8	307.7	316.3	332.4	340.9	359.5	365.6	275.8
72.5°	242.5	241.3	242.5	248.6	253.6	261.0	274.5	284.3	300.4	307.7	214.2
75°	195.7	193.3	195.7	200.6	199.4	209.2	220.3	230.2	244.9	249.9	158.8
77.5°	150.1	150.1	150.1	155.1	155.1	164.9	169.9	182.2	190.8	198.2	116.9
80°	112.1	110.8	112.1	113.2	113.2	118.2	126.8	135.4	142.8	142.8	80.0
82.5°	78.7	76.4	78.7	78.7	78.7	81.2	86.2	88.6	93.5	97.3	50.5
85°	49.3	49.3	49.3	50.5	49.3	51.7	53.0	55.4	55.4	53.0	30.7
87.5°	32.0	30.7	32.0	30.7	30.7	29.5	29.5	29.5	28.4	27.1	17.3
90°	21.7	21.7	21.7	21.7	21.7	28.8	38.5	43.2	37.2	25.1	16.0
92.5°	86.6	69.4	86.6	103.8	108.1	153.3	213.5	243.6	213.8	154.4	109.8
95°	301.9	249.8	301.9	354.0	367.0	481.9	635.1	711.8	601.1	379.8	213.9
97.5°	723.2	624.1	723.2	822.4	847.2	919.8	1016.6	1065.1	880.6	511.7	235.0
100°	1042.1	924.0	1042.1	1160.2	1189.7	1184.4	1177.3	1173.7	969.1	559.7	252.6
102.5°	1355.7	1254.6	1355.7	1456.8	1482.2	1389.6	1266.1	1204.5	996.9	581.6	270.3
105°	1755.5	1701.1	1755.5	1809.9	1823.5	1616.0	1339.4	1201.1	1000.0	598.0	296.4
107.5°	2017.5	2030.6	2017.5	2004.3	2001.0	1711.6	1325.7	1132.8	955.5	601.0	335.1
110°	2117.4	2174.0	2117.4	2060.7	2046.6	1723.0	1291.6	1075.9	916.0	596.4	356.7





TEST NUMBER: P934668

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2126.2	2213.2	2126.2	2039.3	2017.6	1686.4	1244.9	1024.1	881.6	596.6	382.9
115°	2069.9	2190.4	2069.9	1949.3	1919.1	1600.1	1174.7	962.1	842.1	602.1	422.1
117.5°	1950.3	2084.1	1950.3	1816.5	1783.1	1495.2	1111.3	919.4	817.4	613.4	460.3
120°	1854.0	1984.0	1854.0	1724.0	1691.5	1428.5	1077.7	902.4	809.0	622.4	482.4
122.5°	1760.1	1888.3	1760.1	1631.9	1599.9	1363.1	1047.2	889.2	804.6	635.5	508.7
125°	1626.3	1744.4	1626.3	1508.2	1478.7	1277.4	1009.2	875.0	801.1	653.1	542.2
127.5°	1505.9	1605.6	1505.9	1406.3	1381.4	1208.6	978.3	863.1	799.0	670.8	574.7
130°	1435.0	1527.0	1435.0	1343.0	1320.0	1166.2	961.1	858.6	800.3	683.7	596.2
132.5°	1370.7	1453.1	1370.7	1288.3	1267.6	1130.0	946.3	854.6	801.1	694.1	613.9
135°	1282.5	1353.5	1282.5	1211.4	1193.6	1078.4	924.7	847.8	800.3	705.5	634.4
137.5°	1211.7	1269.9	1211.7	1153.5	1139.0	1041.6	911.5	846.6	805.3	722.6	660.6
140°	1163.3	1217.6	1163.3	1108.9	1095.3	1011.0	898.8	842.6	806.1	733.0	678.2
142.5°	1123.0	1169.8	1123.0	1076.2	1064.5	990.6	891.9	842.6	809.0	741.8	691.3
145°	1062.7	1098.1	1062.7	1027.3	1018.5	958.0	877.3	836.9	809.0	753.2	711.2
147.5°	1016.3	1045.7	1016.3	987.1	979.7	932.1	868.7	836.9	814.5	769.9	736.3
150°	987.3	1011.0	987.3	963.5	957.5	917.3	863.7	836.9	817.5	778.5	749.3
152.5°	962.3	980.3	962.3	944.4	939.9	905.6	859.8	836.9	819.3	784.2	757.8
155°	933.8	945.6	933.8	921.8	918.9	891.5	855.1	836.9	823.5	796.7	776.6
157.5°	911.1	919.4	911.1	902.7	900.6	879.4	851.1	836.9	827.7	809.2	795.4
160°	897.6	902.4	897.6	892.7	891.5	873.4	849.1	836.9	829.6	814.9	803.9
162.5°	888.7	893.3	888.7	884.1	883.0	867.7	847.2	836.9	831.6	821.1	813.1
165°	875.9	880.7	875.9	871.2	870.0	859.0	844.3	836.9	834.6	829.7	826.1
167.5°	866.8	868.8	866.8	864.7	864.3	857.0	847.4	842.6	840.6	836.6	833.5
170°	864.3	864.3	864.3	864.3	864.3	857.0	847.4	842.6	842.5	842.3	842.1
172.5°	857.5	855.8	857.5	859.2	859.7	854.0	846.4	842.6	842.6	842.6	842.6
175°	853.5	853.5	853.5	853.5	853.5	849.9	845.0	842.6	843.7	846.0	847.8
177.5°	849.8	847.8	849.8	851.8	852.3	849.4	845.7	843.7	844.6	846.4	847.8
180°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8



TEST NUMBER: P934668

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1319.6	1312.1	1312.1	1299.8	1295.0	1291.2	1285.0	1266.6	1261.6	1256.8	1264.1
5°	1330.7	1317.1	1307.3	1285.0	1266.6	1259.3	1235.9	1191.5	1162.0	1139.8	1127.5
7.5°	1333.0	1315.9	1297.3	1262.9	1218.6	1198.9	1127.5	1046.3	1024.1	1004.4	992.1
10°	1330.7	1310.9	1285.0	1233.4	1128.8	1094.3	1022.9	969.9	956.4	952.8	956.4
12.5°	1322.0	1303.5	1267.8	1181.7	1035.2	1011.9	969.9	939.2	936.7	942.8	976.2
15°	1307.3	1290.0	1248.2	1112.7	983.5	966.2	936.7	925.7	939.2	982.3	1082.0
17.5°	1292.5	1272.8	1221.1	1045.1	944.1	931.8	910.9	933.0	1009.4	1067.2	1100.4
20°	1272.8	1249.3	1190.3	995.8	915.8	904.8	894.8	994.6	1052.4	1073.3	1091.8
22.5°	1249.3	1224.8	1148.4	961.4	886.2	877.7	883.8	1029.0	1052.4	1067.2	1083.2
25°	1218.6	1197.7	1099.2	934.3	862.9	853.0	876.4	1025.3	1038.9	1042.6	1074.6
27.5°	1190.3	1163.2	1047.5	909.6	834.6	830.9	882.5	1009.4	1019.2	1022.9	1057.4
30°	1155.8	1115.2	989.6	883.8	805.0	803.8	883.8	989.6	987.2	997.1	1031.5
32.5°	1120.1	1043.8	924.4	851.8	776.7	775.5	875.2	960.1	957.6	971.2	997.1
35°	1086.9	988.4	835.7	814.8	741.0	742.2	854.3	925.7	926.9	939.2	955.2
37.5°	1052.4	940.5	738.6	774.3	706.5	706.5	825.9	893.7	891.2	894.8	917.1
40°	1011.9	865.3	652.4	721.3	674.5	670.8	791.5	859.1	850.5	849.3	880.1
42.5°	968.7	782.9	588.3	651.2	637.6	632.7	749.7	817.3	801.3	805.0	844.4
45°	921.9	760.7	539.1	550.2	599.4	595.8	704.1	769.3	758.2	768.1	808.7
47.5°	875.2	716.4	523.2	456.6	558.9	557.6	653.6	722.5	716.4	726.3	769.3
50°	811.2	667.2	521.9	391.4	513.3	518.2	593.3	677.0	677.0	685.6	731.1
52.5°	728.7	606.9	473.9	354.5	460.3	475.1	540.3	637.6	640.1	648.7	689.3
55°	653.6	544.1	439.4	326.1	397.5	429.6	488.7	597.0	601.9	610.5	647.4
57.5°	584.7	453.0	432.1	292.9	339.7	370.5	443.2	557.6	560.1	567.4	603.1
60°	510.8	327.4	396.4	257.2	289.3	312.7	401.3	510.8	519.4	524.4	555.1
62.5°	427.1	237.6	359.5	232.6	264.7	269.5	366.8	466.6	477.6	481.3	499.8
65°	304.0	199.4	305.2	211.7	238.8	240.1	329.9	420.9	430.9	437.0	450.5
67.5°	205.6	162.5	232.6	192.0	219.1	220.3	294.2	368.1	381.6	386.5	395.2
70°	142.8	108.3	172.3	171.1	196.9	199.4	256.0	320.0	332.4	336.1	340.9
72.5°	104.6	87.4	142.8	153.9	173.5	176.0	216.7	265.9	278.2	281.9	284.3
75°	80.0	92.3	115.7	134.2	147.7	148.9	177.2	216.7	225.3	227.7	229.0
77.5°	64.0	86.2	85.0	108.3	120.6	118.2	139.1	167.4	174.8	174.8	174.8
80°	48.0	67.7	64.0	77.5	88.6	86.2	99.7	119.4	121.9	124.3	123.1
82.5°	35.7	43.0	43.0	49.3	59.1	56.6	66.4	77.5	77.5	77.5	80.0
85°	22.1	24.6	19.7	25.9	33.2	32.0	36.9	41.8	43.0	43.0	40.7
87.5°	13.6	11.1	6.1	9.8	14.8	14.8	17.3	18.4	17.3	17.3	17.3
90°	14.9	10.3	5.7	10.3	14.9	16.0	25.1	37.2	43.2	38.5	28.8
92.5°	100.2	61.5	22.8	61.5	100.2	109.8	154.4	213.8	243.6	213.5	153.3
95°	196.2	125.4	54.6	125.4	196.2	213.9	379.8	601.1	711.8	635.1	481.9
97.5°	219.4	156.9	94.4	156.9	219.4	235.0	511.7	880.6	1065.1	1016.6	919.8
100°	238.5	181.8	125.2	181.8	238.5	252.6	559.7	969.1	1173.7	1177.3	1184.4
102.5°	257.0	204.2	151.3	204.2	257.0	270.3	581.6	996.9	1204.5	1266.1	1389.6
105°	285.2	240.5	195.7	240.5	285.2	296.4	598.0	1000.0	1201.1	1339.4	1616.0
107.5°	324.7	283.0	241.3	283.0	324.7	335.1	601.0	955.5	1132.8	1325.7	1711.6
110°	347.3	309.6	272.0	309.6	347.3	356.7	596.4	916.0	1075.9	1291.6	1723.0



TEST NUMBER: P934668

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	373.9	338.0	302.1	338.0	373.9	382.9	596.6	881.6	1024.1	1244.9	1686.4
115°	413.9	380.8	347.6	380.8	413.9	422.1	602.1	842.1	962.1	1174.7	1600.1
117.5°	452.8	422.7	392.6	422.7	452.8	460.3	613.4	817.4	919.4	1111.3	1495.2
120°	475.4	447.0	418.7	447.0	475.4	482.4	622.4	809.0	902.4	1077.7	1428.5
122.5°	501.5	473.0	444.3	473.0	501.5	508.7	635.5	804.6	889.2	1047.2	1363.1
125°	535.7	509.7	483.6	509.7	535.7	542.2	653.1	801.1	875.0	1009.2	1277.4
127.5°	568.1	541.8	515.5	541.8	568.1	574.7	670.8	799.0	863.1	978.3	1208.6
130°	589.2	560.8	532.5	560.8	589.2	596.2	683.7	800.3	858.6	961.1	1166.2
132.5°	606.9	578.5	550.2	578.5	606.9	613.9	694.1	801.1	854.6	946.3	1130.0
135°	628.0	602.1	576.3	602.1	628.0	634.4	705.5	800.3	847.8	924.7	1078.4
137.5°	654.1	628.6	603.1	628.6	654.1	660.6	722.6	805.3	846.6	911.5	1041.6
140°	672.3	648.8	625.3	648.8	672.3	678.2	733.0	806.1	842.6	898.8	1011.0
142.5°	685.9	664.1	642.4	664.1	685.9	691.3	741.8	809.0	842.6	891.9	990.6
145°	706.4	687.5	668.5	687.5	706.4	711.2	753.2	809.0	836.9	877.3	958.0
147.5°	731.7	713.1	694.7	713.1	731.7	736.3	769.9	814.5	836.9	868.7	932.1
150°	745.2	728.5	711.8	728.5	745.2	749.3	778.5	817.5	836.9	863.7	917.3
152.5°	754.7	742.0	729.4	742.0	754.7	757.8	784.2	819.3	836.9	859.8	905.6
155°	774.3	764.9	755.5	764.9	774.3	776.6	796.7	823.5	836.9	855.1	891.5
157.5°	793.1	784.0	774.9	784.0	793.1	795.4	809.2	827.7	836.9	851.1	879.4
160°	802.2	795.1	788.0	795.1	802.2	803.9	814.9	829.6	836.9	849.1	873.4
162.5°	811.7	806.4	801.1	806.4	811.7	813.1	821.1	831.6	836.9	847.2	867.7
165°	824.9	820.1	815.3	820.1	824.9	826.1	829.7	834.6	836.9	844.3	859.0
167.5°	833.0	830.7	828.4	830.7	833.0	833.5	836.6	840.6	842.6	847.4	857.0
170°	841.5	839.2	836.9	839.2	841.5	842.1	842.3	842.5	842.6	847.4	857.0
172.5°	842.5	842.0	841.5	842.0	842.5	842.6	842.6	842.6	842.6	846.4	854.0
175°	847.8	847.8	847.8	847.8	847.8	847.8	846.0	843.7	842.6	845.0	849.9
177.5°	847.8	847.8	847.8	847.8	847.8	847.8	846.4	844.6	843.7	845.7	849.4
180°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8



TEST NUMBER: P934668

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1255.5	1251.8	1256.8	1243.2	1256.8	1251.8	1255.5	1264.1	1256.8	1261.6	1266.6
5°	1101.7	1095.5	1075.8	1059.8	1075.8	1095.5	1101.7	1127.5	1139.8	1162.0	1191.5
7.5°	984.7	979.8	974.9	965.0	974.9	979.8	984.7	992.1	1004.4	1024.1	1046.3
10°	958.9	960.1	967.5	966.2	967.5	960.1	958.9	956.4	952.8	956.4	969.9
12.5°	1025.3	1036.4	1077.0	1074.6	1077.0	1036.4	1025.3	976.2	942.8	936.7	939.2
15°	1101.7	1105.4	1114.0	1115.2	1114.0	1105.4	1101.7	1082.0	982.3	939.2	925.7
17.5°	1109.0	1110.3	1116.5	1116.5	1116.5	1110.3	1109.0	1100.4	1067.2	1009.4	933.0
20°	1102.9	1105.4	1117.7	1120.1	1117.7	1105.4	1102.9	1091.8	1073.3	1052.4	994.6
22.5°	1100.4	1105.4	1115.2	1114.0	1115.2	1105.4	1100.4	1083.2	1067.2	1052.4	1029.0
25°	1088.1	1088.1	1089.4	1090.6	1089.4	1088.1	1088.1	1074.6	1042.6	1038.9	1025.3
27.5°	1062.2	1064.7	1072.1	1070.9	1072.1	1064.7	1062.2	1057.4	1022.9	1019.2	1009.4
30°	1038.9	1036.4	1030.3	1025.3	1030.3	1036.4	1038.9	1031.5	997.1	987.2	989.6
32.5°	999.5	993.3	987.2	983.5	987.2	993.3	999.5	997.1	971.2	957.6	960.1
35°	952.8	953.9	952.8	949.0	952.8	953.9	952.8	955.2	939.2	926.9	925.7
37.5°	919.5	921.9	920.7	915.8	920.7	921.9	919.5	917.1	894.8	891.2	893.7
40°	885.0	886.2	885.0	881.4	885.0	886.2	885.0	880.1	849.3	850.5	859.1
42.5°	851.8	850.5	846.8	844.4	846.8	850.5	851.8	844.4	805.0	801.3	817.3
45°	813.6	814.8	807.5	803.8	807.5	814.8	813.6	808.7	768.1	758.2	769.3
47.5°	775.5	775.5	769.3	765.6	769.3	775.5	775.5	769.3	726.3	716.4	722.5
50°	734.9	733.6	725.0	723.8	725.0	733.6	734.9	731.1	685.6	677.0	677.0
52.5°	688.1	688.1	689.3	691.8	689.3	688.1	688.1	689.3	648.7	640.1	637.6
55°	647.4	648.7	657.3	659.7	657.3	648.7	647.4	647.4	610.5	601.9	597.0
57.5°	605.6	605.6	611.7	611.7	611.7	605.6	605.6	603.1	567.4	560.1	557.6
60°	557.6	560.1	565.0	563.7	565.0	560.1	557.6	555.1	524.4	519.4	510.8
62.5°	507.1	509.6	510.8	508.4	510.8	509.6	507.1	499.8	481.3	477.6	466.6
65°	454.2	456.6	457.9	455.5	457.9	456.6	454.2	450.5	437.0	430.9	420.9
67.5°	400.0	398.8	397.5	402.5	397.5	398.8	400.0	395.2	386.5	381.6	368.1
70°	344.7	344.7	343.4	345.9	343.4	344.7	344.7	340.9	336.1	332.4	320.0
72.5°	285.6	284.3	289.3	285.6	289.3	284.3	285.6	284.3	281.9	278.2	265.9
75°	227.7	230.2	227.7	231.4	227.7	230.2	227.7	229.0	227.7	225.3	216.7
77.5°	173.5	176.0	173.5	173.5	173.5	176.0	173.5	174.8	174.8	174.8	167.4
80°	123.1	121.9	121.9	120.6	121.9	121.9	123.1	123.1	124.3	121.9	119.4
82.5°	78.7	77.5	77.5	80.0	77.5	77.5	78.7	80.0	77.5	77.5	77.5
85°	43.0	44.3	41.8	41.8	41.8	44.3	43.0	40.7	43.0	43.0	41.8
87.5°	16.0	14.8	14.8	14.8	14.8	14.8	16.0	17.3	17.3	17.3	18.4
90°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	28.8	38.5	43.2	37.2
92.5°	108.1	103.8	86.6	69.4	86.6	103.8	108.1	153.3	213.5	243.6	213.8
95°	367.0	354.0	301.9	249.8	301.9	354.0	367.0	481.9	635.1	711.8	601.1
97.5°	847.2	822.4	723.2	624.1	723.2	822.4	847.2	919.8	1016.6	1065.1	880.6
100°	1189.7	1160.2	1042.1	924.0	1042.1	1160.2	1189.7	1184.4	1177.3	1173.7	969.1
102.5°	1482.2	1456.8	1355.7	1254.6	1355.7	1456.8	1482.2	1389.6	1266.1	1204.5	996.9
105°	1823.5	1809.9	1755.5	1701.1	1755.5	1809.9	1823.5	1616.0	1339.4	1201.1	1000.0
107.5°	2001.0	2004.3	2017.5	2030.6	2017.5	2004.3	2001.0	1711.6	1325.7	1132.8	955.5
110°	2046.6	2060.7	2117.4	2174.0	2117.4	2060.7	2046.6	1723.0	1291.6	1075.9	916.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2017.6	2039.3	2126.2	2213.2	2126.2	2039.3	2017.6	1686.4	1244.9	1024.1	881.6
115°	1919.1	1949.3	2069.9	2190.4	2069.9	1949.3	1919.1	1600.1	1174.7	962.1	842.1
117.5°	1783.1	1816.5	1950.3	2084.1	1950.3	1816.5	1783.1	1495.2	1111.3	919.4	817.4
120°	1691.5	1724.0	1854.0	1984.0	1854.0	1724.0	1691.5	1428.5	1077.7	902.4	809.0
122.5°	1599.9	1631.9	1760.1	1888.3	1760.1	1631.9	1599.9	1363.1	1047.2	889.2	804.6
125°	1478.7	1508.2	1626.3	1744.4	1626.3	1508.2	1478.7	1277.4	1009.2	875.0	801.1
127.5°	1381.4	1406.3	1505.9	1605.6	1505.9	1406.3	1381.4	1208.6	978.3	863.1	799.0
130°	1320.0	1343.0	1435.0	1527.0	1435.0	1343.0	1320.0	1166.2	961.1	858.6	800.3
132.5°	1267.6	1288.3	1370.7	1453.1	1370.7	1288.3	1267.6	1130.0	946.3	854.6	801.1
135°	1193.6	1211.4	1282.5	1353.5	1282.5	1211.4	1193.6	1078.4	924.7	847.8	800.3
137.5°	1139.0	1153.5	1211.7	1269.9	1211.7	1153.5	1139.0	1041.6	911.5	846.6	805.3
140°	1095.3	1108.9	1163.3	1217.6	1163.3	1108.9	1095.3	1011.0	898.8	842.6	806.1
142.5°	1064.5	1076.2	1123.0	1169.8	1123.0	1076.2	1064.5	990.6	891.9	842.6	809.0
145°	1018.5	1027.3	1062.7	1098.1	1062.7	1027.3	1018.5	958.0	877.3	836.9	809.0
147.5°	979.7	987.1	1016.3	1045.7	1016.3	987.1	979.7	932.1	868.7	836.9	814.5
150°	957.5	963.5	987.3	1011.0	987.3	963.5	957.5	917.3	863.7	836.9	817.5
152.5°	939.9	944.4	962.3	980.3	962.3	944.4	939.9	905.6	859.8	836.9	819.3
155°	918.9	921.8	933.8	945.6	933.8	921.8	918.9	891.5	855.1	836.9	823.5
157.5°	900.6	902.7	911.1	919.4	911.1	902.7	900.6	879.4	851.1	836.9	827.7
160°	891.5	892.7	897.6	902.4	897.6	892.7	891.5	873.4	849.1	836.9	829.6
162.5°	883.0	884.1	888.7	893.3	888.7	884.1	883.0	867.7	847.2	836.9	831.6
165°	870.0	871.2	875.9	880.7	875.9	871.2	870.0	859.0	844.3	836.9	834.6
167.5°	864.3	864.7	866.8	868.8	866.8	864.7	864.3	857.0	847.4	842.6	840.6
170°	864.3	864.3	864.3	864.3	864.3	864.3	864.3	857.0	847.4	842.6	842.5
172.5°	859.7	859.2	857.5	855.8	857.5	859.2	859.7	854.0	846.4	842.6	842.6
175°	853.5	853.5	853.5	853.5	853.5	853.5	853.5	849.9	845.0	842.6	843.7
177.5°	852.3	851.8	849.8	847.8	849.8	851.8	852.3	849.4	845.7	843.7	844.6
180°	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8	847.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1285.0	1291.2	1295.0	1299.8	1312.1
5°	1235.9	1259.3	1266.6	1285.0	1307.3
7.5°	1127.5	1198.9	1218.6	1262.9	1297.3
10°	1022.9	1094.3	1128.8	1233.4	1285.0
12.5°	969.9	1011.9	1035.2	1181.7	1267.8
15°	936.7	966.2	983.5	1112.7	1248.2
17.5°	910.9	931.8	944.1	1045.1	1221.1
20°	894.8	904.8	915.8	995.8	1190.3
22.5°	883.8	877.7	886.2	961.4	1148.4
25°	876.4	853.0	862.9	934.3	1099.2
27.5°	882.5	830.9	834.6	909.6	1047.5
30°	883.8	803.8	805.0	883.8	989.6
32.5°	875.2	775.5	776.7	851.8	924.4
35°	854.3	742.2	741.0	814.8	835.7
37.5°	825.9	706.5	706.5	774.3	738.6
40°	791.5	670.8	674.5	721.3	652.4
42.5°	749.7	632.7	637.6	651.2	588.3
45°	704.1	595.8	599.4	550.2	539.1
47.5°	653.6	557.6	558.9	456.6	523.2
50°	593.3	518.2	513.3	391.4	521.9
52.5°	540.3	475.1	460.3	354.5	473.9
55°	488.7	429.6	397.5	326.1	439.4
57.5°	443.2	370.5	339.7	292.9	432.1
60°	401.3	312.7	289.3	257.2	396.4
62.5°	366.8	269.5	264.7	232.6	359.5
65°	329.9	240.1	238.8	211.7	305.2
67.5°	294.2	220.3	219.1	192.0	232.6
70°	256.0	199.4	196.9	171.1	172.3
72.5°	216.7	176.0	173.5	153.9	142.8
75°	177.2	148.9	147.7	134.2	115.7
77.5°	139.1	118.2	120.6	108.3	85.0
80°	99.7	86.2	88.6	77.5	64.0
82.5°	66.4	56.6	59.1	49.3	43.0
85°	36.9	32.0	33.2	25.9	19.7
87.5°	17.3	14.8	14.8	9.8	6.1
90°	25.1	16.0	14.9	10.3	5.7
92.5°	154.4	109.8	100.2	61.5	22.8
95°	379.8	213.9	196.2	125.4	54.6
97.5°	511.7	235.0	219.4	156.9	94.4
100°	559.7	252.6	238.5	181.8	125.2
102.5°	581.6	270.3	257.0	204.2	151.3
105°	598.0	296.4	285.2	240.5	195.7
107.5°	601.0	335.1	324.7	283.0	241.3
110°	596.4	356.7	347.3	309.6	272.0



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CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	596.6	382.9	373.9	338.0	302.1
115°	602.1	422.1	413.9	380.8	347.6
117.5°	613.4	460.3	452.8	422.7	392.6
120°	622.4	482.4	475.4	447.0	418.7
122.5°	635.5	508.7	501.5	473.0	444.3
125°	653.1	542.2	535.7	509.7	483.6
127.5°	670.8	574.7	568.1	541.8	515.5
130°	683.7	596.2	589.2	560.8	532.5
132.5°	694.1	613.9	606.9	578.5	550.2
135°	705.5	634.4	628.0	602.1	576.3
137.5°	722.6	660.6	654.1	628.6	603.1
140°	733.0	678.2	672.3	648.8	625.3
142.5°	741.8	691.3	685.9	664.1	642.4
145°	753.2	711.2	706.4	687.5	668.5
147.5°	769.9	736.3	731.7	713.1	694.7
150°	778.5	749.3	745.2	728.5	711.8
152.5°	784.2	757.8	754.7	742.0	729.4
155°	796.7	776.6	774.3	764.9	755.5
157.5°	809.2	795.4	793.1	784.0	774.9
160°	814.9	803.9	802.2	795.1	788.0
162.5°	821.1	813.1	811.7	806.4	801.1
165°	829.7	826.1	824.9	820.1	815.3
167.5°	836.6	833.5	833.0	830.7	828.4
170°	842.3	842.1	841.5	839.2	836.9
172.5°	842.6	842.6	842.5	842.0	841.5
175°	846.0	847.8	847.8	847.8	847.8
177.5°	846.4	847.8	847.8	847.8	847.8
180°	847.8	847.8	847.8	847.8	847.8



TEST NUMBER: P934668  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	9.84	10.60	10.89	11.66	13.09	12.67	13.44	13.73	14.50	15.93
	3H	10.31	10.99	11.37	12.06	13.51	14.02	14.70	15.08	15.76	17.22
	4H	10.49	11.14	11.57	12.21	13.67	14.46	15.10	15.53	16.17	17.63
	6H	10.61	11.20	11.69	12.28	13.74	14.74	15.33	15.82	16.41	17.88
	8H	10.61	11.17	11.69	12.26	13.72	14.81	15.38	15.90	16.47	17.93
	12H	10.57	11.11	11.67	12.19	13.68	14.85	15.39	15.94	16.47	17.96
4H	2H	10.86	11.51	11.94	12.58	14.03	13.07	13.72	14.15	14.79	16.25
	3H	11.88	12.42	12.97	13.51	14.98	14.57	15.11	15.66	16.21	17.68
	4H	12.15	12.64	13.24	13.73	15.22	15.10	15.59	16.19	16.68	18.17
	6H	12.27	12.69	13.37	13.80	15.29	15.46	15.88	16.56	16.99	18.48
	8H	12.27	12.67	13.37	13.77	15.27	15.56	15.96	16.66	17.06	18.56
	12H	12.23	12.59	13.35	13.71	15.21	15.62	15.98	16.74	17.09	18.60
8H	4H	12.60	12.99	13.70	14.09	15.59	15.21	15.61	16.31	16.71	18.21
	6H	12.85	13.18	13.98	14.32	15.82	15.65	15.97	16.77	17.12	18.61
	8H	12.90	13.18	14.03	14.31	15.82	15.80	16.09	16.93	17.21	18.73
	12H	12.87	13.13	14.01	14.25	15.80	15.89	16.15	17.03	17.27	18.82
12H	4H	12.60	12.96	13.72	14.07	15.58	15.17	15.53	16.29	16.64	18.15
	6H	12.91	13.20	14.04	14.33	15.84	15.64	15.93	16.77	17.05	18.57
	8H	12.98	13.23	14.11	14.35	15.90	15.80	16.05	16.94	17.17	18.73