

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: P933893

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

**Test Information**

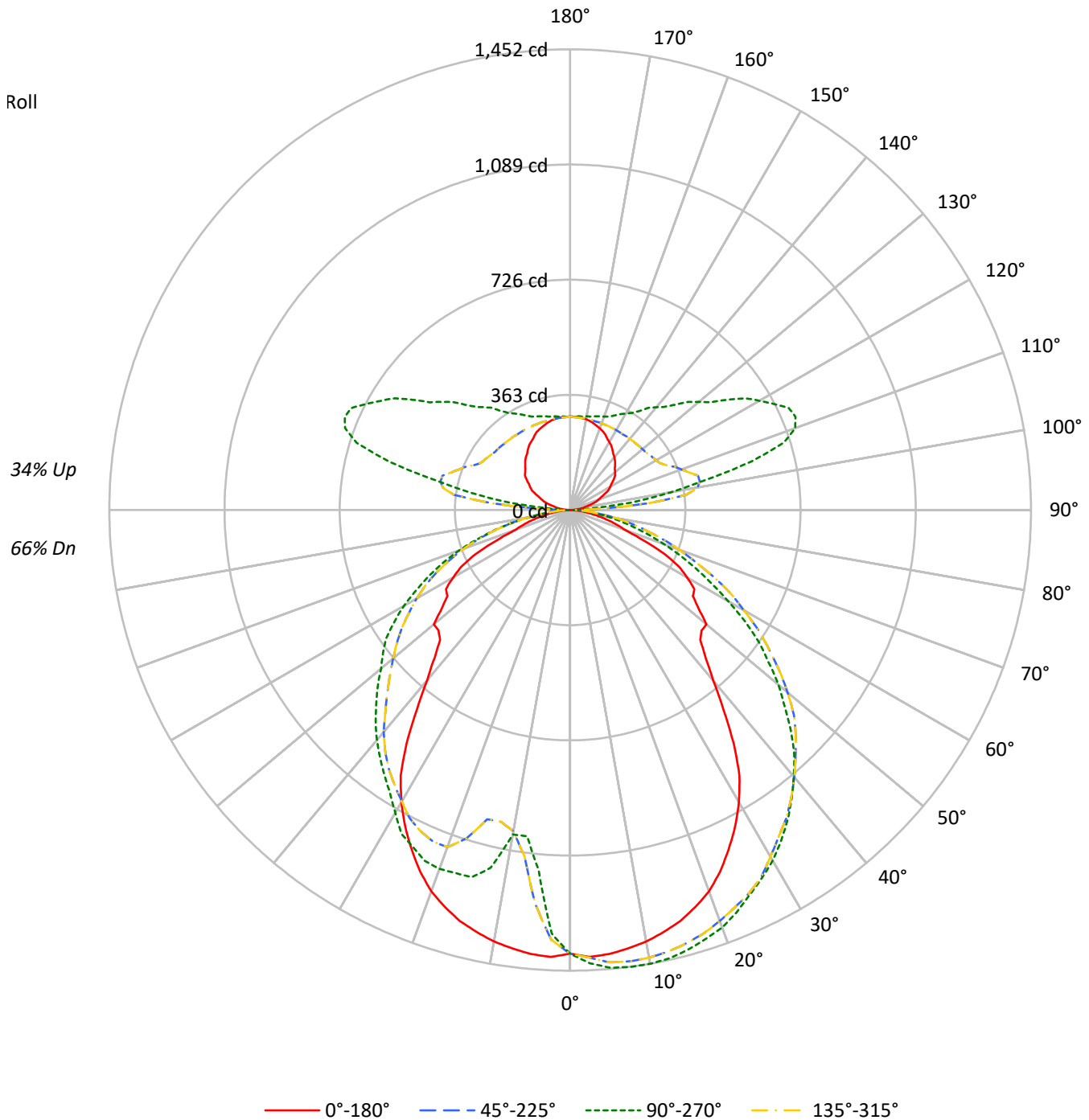
Test Method: LM-79-2019  
Report Number: P933893  
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5533.4 lumens  
Efficiency: N/A  
Efficacy: 125.8 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-Direct  
  
Input Watts (W): 44  
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





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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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

	0°	90°	180°	270°
0°	6486	6486	6486	6486
5°	6535	6547	6535	5148
10°	6490	6449	6490	4611
15°	6420	6309	6420	5269
20°	6285	6144	6285	5280
25°	6011	5903	6011	5168
30°	5656	5702	5656	4922
35°	5042	5448	5042	4652
40°	4201	5150	4201	4448
45°	3754	4800	3754	4214
50°	3988	4384	3988	3978
55°	3752	3935	3752	3842
60°	3868	3342	3868	3519
65°	3506	2763	3506	3089
70°	2429	2202	2429	2589
75°	2129	1628	2129	1949
80°	1714	1076	1714	1172
85°	987	570	987	485

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5753 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.2	2.3
10°-20°	358.3	6.5
20°-30°	553.8	10.0
30°-40°	661.2	11.9
40°-50°	665.0	12.0
50°-60°	578.7	10.5
60°-70°	410.3	7.4
70°-80°	217.1	3.9
80°-90°	55.2	1.0
90°-100°	143.4	2.6
100°-110°	377.1	6.8
110°-120°	391.1	7.1
120°-130°	313.7	5.7
130°-140°	246.1	4.4
140°-150°	188.9	3.4
150°-160°	136.0	2.5
160°-170°	83.2	1.5
170°-180°	28.1	0.5
0°-30°	1038.3	18.8
0°-40°	1699.5	30.7
0°-60°	2943.1	53.2
0°-90°	3625.6	65.5
90°-120°	911.7	16.5
90°-150°	1660.4	30.0
90°-180°	1908.0	34.5
0°-180°	5533.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1398	1398	1398	1398	1398	
5°	1405	1448	1405	1139	1405	133
15°	1341	1435	1341	1198	1341	377
25°	1181	1338	1181	1172	1181	542
35°	898	1194	898	1020	898	556
45°	579	984	579	864	579	464
55°	472	726	472	709	472	434
65°	328	438	328	489	328	313
75°	124	208	124	249	124	131
85°	21	53	21	45	21	29
90°	2	8	2	8	2	3
95°	19	87	19	87	19	21
105°	68	590	68	590	68	72
115°	121	760	121	760	121	119
125°	168	606	168	606	168	149
135°	200	470	200	470	200	155
145°	232	381	232	381	232	145
155°	262	328	262	328	262	121
165°	283	306	283	306	283	80
175°	294	296	294	296	294	28
180°	294	294	294	294	294	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1409.8	1409.8	1417.8	1420.4	1420.4	1416.4	1412.4	1416.4	1428.3	1432.3	1431.0
5°	1404.6	1415.1	1429.7	1432.3	1434.9	1433.6	1431.0	1433.6	1446.9	1449.5	1450.8
7.5°	1393.9	1413.8	1432.3	1436.3	1440.3	1436.3	1434.9	1437.6	1450.8	1453.5	1453.5
10°	1380.7	1408.5	1429.7	1432.3	1436.3	1432.3	1432.3	1437.6	1450.8	1453.5	1454.7
12.5°	1362.2	1400.5	1420.4	1423.0	1428.3	1427.0	1425.7	1431.0	1444.2	1446.9	1446.9
15°	1341.1	1386.0	1404.6	1407.1	1416.4	1413.8	1413.8	1419.1	1433.6	1437.6	1436.3
17.5°	1312.0	1367.5	1388.7	1392.6	1399.2	1398.0	1399.2	1404.6	1417.8	1420.4	1421.7
20°	1278.8	1342.3	1367.5	1371.4	1378.0	1378.0	1378.0	1384.6	1398.0	1403.2	1403.2
22.5°	1233.9	1315.9	1342.3	1345.0	1353.0	1353.0	1355.6	1364.8	1376.8	1378.0	1378.0
25°	1181.0	1286.8	1309.3	1317.2	1325.2	1329.1	1333.1	1338.4	1342.3	1341.1	1342.3
27.5°	1125.5	1249.8	1278.8	1284.2	1294.7	1298.8	1304.0	1305.4	1306.6	1310.6	1308.0
30°	1063.3	1198.2	1241.9	1247.2	1264.3	1267.0	1261.7	1264.3	1271.0	1273.6	1276.3
32.5°	993.2	1121.5	1203.5	1215.4	1231.3	1223.3	1222.0	1226.0	1236.5	1236.5	1239.2
35°	898.0	1062.0	1167.8	1178.4	1190.3	1181.0	1186.4	1187.6	1194.2	1198.2	1196.9
37.5°	793.5	1010.5	1130.7	1138.7	1148.0	1136.1	1144.0	1148.0	1153.2	1150.6	1150.6
40°	700.9	929.7	1087.2	1092.4	1100.4	1091.1	1099.0	1101.7	1104.3	1101.7	1100.4
42.5°	632.1	841.2	1040.8	1047.4	1042.1	1048.8	1051.4	1056.7	1052.8	1047.4	1047.4
45°	579.3	817.3	990.5	998.5	990.5	1001.2	1005.1	1005.1	993.2	990.5	989.3
47.5°	562.1	769.7	940.3	940.3	936.3	949.6	956.2	947.0	935.0	931.1	931.1
50°	560.7	716.8	871.5	866.3	884.7	900.6	894.0	884.7	875.5	861.0	861.0
52.5°	509.2	652.0	783.0	802.8	831.9	841.2	830.5	821.3	805.5	798.8	793.5
55°	472.1	584.6	702.2	742.0	772.3	784.3	764.4	755.2	731.3	727.4	724.7
57.5°	464.2	486.7	628.2	678.5	715.4	714.2	702.2	685.1	665.3	661.3	659.9
60°	425.9	351.8	548.8	608.4	646.7	642.8	632.1	616.2	597.8	595.1	592.5
62.5°	386.2	255.3	458.9	526.3	580.6	579.3	570.0	546.2	532.9	526.3	521.1
65°	327.9	214.3	326.7	437.8	515.8	518.4	498.6	481.4	466.9	458.9	457.6
67.5°	250.0	174.6	220.9	365.0	453.7	451.0	425.9	418.0	399.4	395.5	387.5
70°	185.2	116.3	153.4	296.3	392.8	386.2	366.3	357.1	339.9	330.6	325.4
72.5°	153.4	93.9	112.4	230.1	330.6	322.7	305.5	294.9	280.4	272.4	267.1
75°	124.3	99.2	86.0	170.6	268.5	263.2	247.3	236.7	224.8	214.3	215.5
77.5°	91.3	92.6	68.7	125.6	213.0	205.0	195.7	182.5	177.2	166.6	166.6
80°	68.7	72.8	51.6	86.0	153.4	153.4	145.4	136.3	127.0	121.7	121.7
82.5°	46.2	46.2	38.4	54.2	104.5	100.5	95.2	92.6	87.3	84.6	84.6
85°	21.2	26.4	23.8	33.0	56.9	59.6	59.6	56.9	55.5	52.9	54.2
87.5°	6.6	11.9	14.6	18.5	29.1	30.5	31.7	31.7	31.7	33.0	33.0
90°	2.0	3.5	5.1	5.5	8.7	12.9	15.0	13.3	10.0	7.5	7.5
92.5°	7.9	21.3	34.8	38.2	53.6	74.2	84.5	74.0	53.2	37.6	36.1
95°	18.9	43.5	68.1	74.2	131.8	208.6	247.1	220.5	167.3	127.4	122.9
97.5°	32.8	54.5	76.1	81.5	177.6	305.7	369.8	353.0	319.4	294.1	285.5
100°	43.5	63.1	82.7	87.7	194.2	336.3	407.4	408.7	411.2	413.0	402.8
102.5°	52.6	70.9	89.2	93.8	201.9	346.1	418.2	439.6	482.4	514.5	505.7
105°	67.9	83.5	99.1	102.9	207.7	347.2	417.0	465.0	561.0	633.0	628.3
107.5°	83.7	98.2	112.7	116.3	208.6	331.7	393.2	460.2	594.2	694.6	695.8
110°	94.5	107.5	120.6	123.8	207.1	318.0	373.5	448.3	598.1	710.4	715.3



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.9	117.3	129.8	132.9	207.2	306.1	355.6	432.2	585.4	700.4	707.9
115°	120.7	132.1	143.7	146.5	209.0	292.3	334.0	407.8	555.5	666.2	676.7
117.5°	136.3	146.7	157.2	159.8	213.0	283.8	319.2	385.8	519.0	619.0	630.6
120°	145.3	155.2	165.1	167.5	216.1	280.9	313.3	374.1	495.9	587.2	598.4
122.5°	154.2	164.2	174.1	176.6	220.7	279.3	308.7	363.5	473.2	555.4	566.6
125°	167.9	177.0	186.0	188.2	226.8	278.2	303.8	350.3	443.5	513.3	523.6
127.5°	179.0	188.0	197.2	199.5	232.9	277.4	299.6	339.7	419.6	479.6	488.3
130°	184.9	194.7	204.5	207.0	237.3	277.9	298.1	333.7	404.9	458.2	466.2
132.5°	191.0	200.8	210.6	213.1	241.0	278.2	296.7	328.5	392.2	440.1	447.2
135°	200.1	209.0	218.0	220.3	244.9	277.9	294.3	321.0	374.4	414.4	420.5
137.5°	209.3	218.2	227.1	229.3	250.8	279.5	293.9	316.5	361.6	395.4	400.4
140°	217.0	225.2	233.4	235.5	254.5	279.8	292.5	312.1	351.0	380.2	384.9
142.5°	223.0	230.5	238.1	240.0	257.5	280.9	292.5	309.7	343.9	369.6	373.6
145°	232.1	238.7	245.2	246.9	261.5	280.9	290.6	304.6	332.6	353.6	356.6
147.5°	241.2	247.6	254.0	255.6	267.2	282.8	290.6	301.6	323.6	340.1	342.6
150°	247.1	252.9	258.6	260.1	270.3	283.8	290.6	299.8	318.5	332.4	334.5
152.5°	253.2	257.5	262.0	263.1	272.2	284.5	290.6	298.5	314.3	326.3	327.8
155°	262.3	265.5	268.8	269.6	276.6	285.9	290.6	296.9	309.5	319.0	320.0
157.5°	269.0	272.1	275.3	276.1	280.9	287.3	290.6	295.5	305.3	312.7	313.4
160°	273.5	276.0	278.4	279.0	282.9	288.0	290.6	294.8	303.2	309.5	309.9
162.5°	278.1	279.9	281.7	282.2	285.0	288.7	290.6	294.1	301.2	306.5	306.9
165°	283.1	284.8	286.4	286.8	288.1	289.8	290.6	293.1	298.2	302.0	302.4
167.5°	287.6	288.4	289.2	289.4	290.5	291.9	292.5	294.2	297.6	300.0	300.2
170°	290.6	291.4	292.2	292.3	292.4	292.5	292.5	294.2	297.6	300.0	300.0
172.5°	292.2	292.3	292.5	292.5	292.5	292.5	292.5	293.8	296.5	298.5	298.3
175°	294.3	294.3	294.3	294.3	293.7	292.9	292.5	293.3	295.0	296.3	296.3
177.5°	294.3	294.3	294.3	294.3	293.8	293.2	292.9	293.6	294.9	295.9	295.7
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1433.6	1429.7	1433.6	1431.0	1432.3	1428.3	1416.4	1412.4	1416.4	1420.4	1420.4
5°	1450.8	1448.1	1450.8	1450.8	1449.5	1446.9	1433.6	1431.0	1433.6	1434.9	1432.3
7.5°	1456.1	1452.2	1456.1	1453.5	1453.5	1450.8	1437.6	1434.9	1436.3	1440.3	1436.3
10°	1456.1	1452.2	1456.1	1454.7	1453.5	1450.8	1437.6	1432.3	1432.3	1436.3	1432.3
12.5°	1449.5	1446.9	1449.5	1446.9	1446.9	1444.2	1431.0	1425.7	1427.0	1428.3	1423.0
15°	1438.9	1434.9	1438.9	1436.3	1437.6	1433.6	1419.1	1413.8	1413.8	1416.4	1407.1
17.5°	1423.0	1417.8	1423.0	1421.7	1420.4	1417.8	1404.6	1399.2	1398.0	1399.2	1392.6
20°	1404.6	1400.5	1404.6	1403.2	1403.2	1398.0	1384.6	1378.0	1378.0	1378.0	1371.4
22.5°	1375.5	1371.4	1375.5	1378.0	1378.0	1376.8	1364.8	1355.6	1353.0	1353.0	1345.0
25°	1342.3	1338.4	1342.3	1342.3	1341.1	1342.3	1338.4	1333.1	1329.1	1325.2	1317.2
27.5°	1310.6	1308.0	1310.6	1308.0	1310.6	1306.6	1305.4	1304.0	1298.8	1294.7	1284.2
30°	1278.8	1276.3	1278.8	1276.3	1273.6	1271.0	1264.3	1261.7	1267.0	1264.3	1247.2
32.5°	1239.2	1236.5	1239.2	1239.2	1236.5	1236.5	1226.0	1222.0	1223.3	1231.3	1215.4
35°	1198.2	1194.2	1198.2	1196.9	1198.2	1194.2	1187.6	1186.4	1181.0	1190.3	1178.4
37.5°	1150.6	1146.6	1150.6	1150.6	1150.6	1153.2	1148.0	1144.0	1136.1	1148.0	1138.7
40°	1101.7	1096.3	1101.7	1100.4	1101.7	1104.3	1101.7	1099.0	1091.1	1100.4	1092.4
42.5°	1046.1	1044.8	1046.1	1047.4	1047.4	1052.8	1056.7	1051.4	1048.8	1042.1	1047.4
45°	986.6	983.9	986.6	989.3	990.5	993.2	1005.1	1005.1	1001.2	990.5	998.5
47.5°	923.1	916.5	923.1	931.1	931.1	935.0	947.0	956.2	949.6	936.3	940.3
50°	855.7	857.0	855.7	861.0	861.0	875.5	884.7	894.0	900.6	884.7	866.3
52.5°	789.6	788.2	789.6	793.5	798.8	805.5	821.3	830.5	841.2	831.9	802.8
55°	723.4	726.1	723.4	724.7	727.4	731.3	755.2	764.4	784.3	772.3	742.0
57.5°	657.3	653.3	657.3	659.9	661.3	665.3	685.1	702.2	714.2	715.4	678.5
60°	580.6	575.3	580.6	592.5	595.1	597.8	616.2	632.1	642.8	646.7	608.4
62.5°	513.1	503.8	513.1	521.1	526.3	532.9	546.2	570.0	579.3	580.6	526.3
65°	441.7	437.8	441.7	457.6	458.9	466.9	481.4	498.6	518.4	515.8	437.8
67.5°	376.9	376.9	376.9	387.5	395.5	399.4	418.0	425.9	451.0	453.7	365.0
70°	317.4	316.1	317.4	325.4	330.6	339.9	357.1	366.3	386.2	392.8	296.3
72.5°	260.5	259.2	260.5	267.1	272.4	280.4	294.9	305.5	322.7	330.6	230.1
75°	210.3	207.7	210.3	215.5	214.3	224.8	236.7	247.3	263.2	268.5	170.6
77.5°	161.3	161.3	161.3	166.6	166.6	177.2	182.5	195.7	205.0	213.0	125.6
80°	120.4	119.0	120.4	121.7	121.7	127.0	136.3	145.4	153.4	153.4	86.0
82.5°	84.6	82.0	84.6	84.6	84.6	87.3	92.6	95.2	100.5	104.5	54.2
85°	52.9	52.9	52.9	54.2	52.9	55.5	56.9	59.6	59.6	56.9	33.0
87.5°	34.4	33.0	34.4	33.0	33.0	31.7	31.7	31.7	30.5	29.1	18.5
90°	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9	8.7	5.5
92.5°	30.1	24.1	30.1	36.1	37.6	53.2	74.0	84.5	74.2	53.6	38.2
95°	104.8	86.7	104.8	122.9	127.4	167.3	220.5	247.1	208.6	131.8	74.2
97.5°	251.0	216.6	251.0	285.5	294.1	319.4	353.0	369.8	305.7	177.6	81.5
100°	361.8	320.7	361.8	402.8	413.0	411.2	408.7	407.4	336.3	194.2	87.7
102.5°	470.6	435.5	470.6	505.7	514.5	482.4	439.6	418.2	346.1	201.9	93.8
105°	609.4	590.5	609.4	628.3	633.0	561.0	465.0	417.0	347.2	207.7	102.9
107.5°	700.4	704.9	700.4	695.8	694.6	594.2	460.2	393.2	331.7	208.6	116.3
110°	735.0	754.7	735.0	715.3	710.4	598.1	448.3	373.5	318.0	207.1	123.8





TEST NUMBER: P933893

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	738.1	768.3	738.1	707.9	700.4	585.4	432.2	355.6	306.1	207.2	132.9
115°	718.6	760.4	718.6	676.7	666.2	555.5	407.8	334.0	292.3	209.0	146.5
117.5°	677.1	723.5	677.1	630.6	619.0	519.0	385.8	319.2	283.8	213.0	159.8
120°	643.6	688.7	643.6	598.4	587.2	495.9	374.1	313.3	280.9	216.1	167.5
122.5°	611.0	655.5	611.0	566.6	555.4	473.2	363.5	308.7	279.3	220.7	176.6
125°	564.6	605.6	564.6	523.6	513.3	443.5	350.3	303.8	278.2	226.8	188.2
127.5°	522.8	557.4	522.8	488.3	479.6	419.6	339.7	299.6	277.4	232.9	199.5
130°	498.1	530.1	498.1	466.2	458.2	404.9	333.7	298.1	277.9	237.3	207.0
132.5°	475.8	504.4	475.8	447.2	440.1	392.2	328.5	296.7	278.2	241.0	213.1
135°	445.2	469.8	445.2	420.5	414.4	374.4	321.0	294.3	277.9	244.9	220.3
137.5°	420.6	440.8	420.6	400.4	395.4	361.6	316.5	293.9	279.5	250.8	229.3
140°	403.8	422.7	403.8	384.9	380.2	351.0	312.1	292.5	279.8	254.5	235.5
142.5°	389.9	406.0	389.9	373.6	369.6	343.9	309.7	292.5	280.9	257.5	240.0
145°	369.0	381.2	369.0	356.6	353.6	332.6	304.6	290.6	280.9	261.5	246.9
147.5°	352.8	363.0	352.8	342.6	340.1	323.6	301.6	290.6	282.8	267.2	255.6
150°	342.7	351.0	342.7	334.5	332.4	318.5	299.8	290.6	283.8	270.3	260.1
152.5°	334.1	340.3	334.1	327.8	326.3	314.3	298.5	290.6	284.5	272.2	263.1
155°	324.1	328.2	324.1	320.0	319.0	309.5	296.9	290.6	285.9	276.6	269.6
157.5°	316.3	319.2	316.3	313.4	312.7	305.3	295.5	290.6	287.3	280.9	276.1
160°	311.6	313.3	311.6	309.9	309.5	303.2	294.8	290.6	288.0	282.9	279.0
162.5°	308.5	310.1	308.5	306.9	306.5	301.2	294.1	290.6	288.7	285.0	282.2
165°	304.1	305.8	304.1	302.4	302.0	298.2	293.1	290.6	289.8	288.1	286.8
167.5°	300.9	301.6	300.9	300.2	300.0	297.6	294.2	292.5	291.9	290.5	289.4
170°	300.0	300.0	300.0	300.0	300.0	297.6	294.2	292.5	292.5	292.4	292.3
172.5°	297.7	297.1	297.7	298.3	298.5	296.5	293.8	292.5	292.5	292.5	292.5
175°	296.3	296.3	296.3	296.3	296.3	295.0	293.3	292.5	292.9	293.7	294.3
177.5°	295.0	294.3	295.0	295.7	295.9	294.9	293.6	292.9	293.2	293.8	294.3
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933893

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1417.8	1409.8	1409.8	1396.6	1391.3	1387.3	1380.7	1360.9	1355.6	1350.3	1358.2
5°	1429.7	1415.1	1404.6	1380.7	1360.9	1353.0	1327.8	1280.2	1248.5	1224.6	1211.4
7.5°	1432.3	1413.8	1393.9	1356.9	1309.3	1288.1	1211.4	1124.1	1100.4	1079.2	1066.0
10°	1429.7	1408.5	1380.7	1325.2	1212.8	1175.7	1099.0	1042.1	1027.6	1023.7	1027.6
12.5°	1420.4	1400.5	1362.2	1269.7	1112.2	1087.2	1042.1	1009.1	1006.4	1013.0	1048.8
15°	1404.6	1386.0	1341.1	1195.5	1056.7	1038.2	1006.4	994.6	1009.1	1055.4	1162.5
17.5°	1388.7	1367.5	1312.0	1122.9	1014.4	1001.2	978.7	1002.5	1084.5	1146.6	1182.3
20°	1367.5	1342.3	1278.8	1069.9	983.9	972.1	961.4	1068.6	1130.7	1153.2	1173.0
22.5°	1342.3	1315.9	1233.9	1032.9	952.2	943.0	949.6	1105.6	1130.7	1146.6	1163.8
25°	1309.3	1286.8	1181.0	1003.8	927.1	916.5	941.6	1101.7	1116.3	1120.2	1154.6
27.5°	1278.8	1249.8	1125.5	977.3	896.7	892.7	948.2	1084.5	1095.1	1099.0	1136.1
30°	1241.9	1198.2	1063.3	949.6	864.9	863.6	949.6	1063.3	1060.6	1071.3	1108.3
32.5°	1203.5	1121.5	993.2	915.2	834.6	833.2	940.3	1031.6	1028.9	1043.5	1071.3
35°	1167.8	1062.0	898.0	875.5	796.2	797.5	917.9	994.6	995.9	1009.1	1026.3
37.5°	1130.7	1010.5	793.5	831.9	759.1	759.1	887.4	960.2	957.5	961.4	985.3
40°	1087.2	929.7	700.9	775.0	724.7	720.8	850.4	923.1	913.8	912.5	945.6
42.5°	1040.8	841.2	632.1	699.7	685.1	679.7	805.5	878.1	861.0	864.9	907.2
45°	990.5	817.3	579.3	591.2	644.1	640.1	756.5	826.6	814.6	825.3	868.9
47.5°	940.3	769.7	562.1	490.6	600.5	599.1	702.2	776.3	769.7	780.3	826.6
50°	871.5	716.8	560.7	420.5	551.5	556.8	637.4	727.4	727.4	736.6	785.5
52.5°	783.0	652.0	509.2	380.9	494.6	510.5	580.6	685.1	687.7	697.0	740.6
55°	702.2	584.6	472.1	350.4	427.1	461.5	525.0	641.4	646.7	656.0	695.6
57.5°	628.2	486.7	464.2	314.7	365.0	398.0	476.1	599.1	601.8	609.6	648.0
60°	548.8	351.8	425.9	276.4	310.8	335.9	431.2	548.8	558.1	563.4	596.4
62.5°	458.9	255.3	386.2	250.0	284.4	289.6	394.1	501.3	513.1	517.2	537.0
65°	326.7	214.3	327.9	227.5	256.6	257.9	354.5	452.3	462.9	469.5	484.0
67.5°	220.9	174.6	250.0	206.3	235.5	236.7	316.1	395.5	410.0	415.3	424.6
70°	153.4	116.3	185.2	183.8	211.6	214.3	275.1	343.8	357.1	361.1	366.3
72.5°	112.4	93.9	153.4	165.4	186.5	189.1	232.8	285.6	298.9	302.9	305.5
75°	86.0	99.2	124.3	144.2	158.7	160.0	190.4	232.8	242.1	244.6	246.0
77.5°	68.7	92.6	91.3	116.3	129.6	127.0	149.5	179.8	187.8	187.8	187.8
80°	51.6	72.8	68.7	83.3	95.2	92.6	107.1	128.3	130.9	133.6	132.2
82.5°	38.4	46.2	46.2	52.9	63.5	60.8	71.4	83.3	83.3	83.3	86.0
85°	23.8	26.4	21.2	27.8	35.7	34.4	39.6	45.0	46.2	46.2	43.7
87.5°	14.6	11.9	6.6	10.6	15.9	15.9	18.5	19.8	18.5	18.5	18.5
90°	5.1	3.5	2.0	3.5	5.1	5.5	8.7	12.9	15.0	13.3	10.0
92.5°	34.8	21.3	7.9	21.3	34.8	38.2	53.6	74.2	84.5	74.0	53.2
95°	68.1	43.5	18.9	43.5	68.1	74.2	131.8	208.6	247.1	220.5	167.3
97.5°	76.1	54.5	32.8	54.5	76.1	81.5	177.6	305.7	369.8	353.0	319.4
100°	82.7	63.1	43.5	63.1	82.7	87.7	194.2	336.3	407.4	408.7	411.2
102.5°	89.2	70.9	52.6	70.9	89.2	93.8	201.9	346.1	418.2	439.6	482.4
105°	99.1	83.5	67.9	83.5	99.1	102.9	207.7	347.2	417.0	465.0	561.0
107.5°	112.7	98.2	83.7	98.2	112.7	116.3	208.6	331.7	393.2	460.2	594.2
110°	120.6	107.5	94.5	107.5	120.6	123.8	207.1	318.0	373.5	448.3	598.1



TEST NUMBER: P933893

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.8	117.3	104.9	117.3	129.8	132.9	207.2	306.1	355.6	432.2	585.4
115°	143.7	132.1	120.7	132.1	143.7	146.5	209.0	292.3	334.0	407.8	555.5
117.5°	157.2	146.7	136.3	146.7	157.2	159.8	213.0	283.8	319.2	385.8	519.0
120°	165.1	155.2	145.3	155.2	165.1	167.5	216.1	280.9	313.3	374.1	495.9
122.5°	174.1	164.2	154.2	164.2	174.1	176.6	220.7	279.3	308.7	363.5	473.2
125°	186.0	177.0	167.9	177.0	186.0	188.2	226.8	278.2	303.8	350.3	443.5
127.5°	197.2	188.0	179.0	188.0	197.2	199.5	232.9	277.4	299.6	339.7	419.6
130°	204.5	194.7	184.9	194.7	204.5	207.0	237.3	277.9	298.1	333.7	404.9
132.5°	210.6	200.8	191.0	200.8	210.6	213.1	241.0	278.2	296.7	328.5	392.2
135°	218.0	209.0	200.1	209.0	218.0	220.3	244.9	277.9	294.3	321.0	374.4
137.5°	227.1	218.2	209.3	218.2	227.1	229.3	250.8	279.5	293.9	316.5	361.6
140°	233.4	225.2	217.0	225.2	233.4	235.5	254.5	279.8	292.5	312.1	351.0
142.5°	238.1	230.5	223.0	230.5	238.1	240.0	257.5	280.9	292.5	309.7	343.9
145°	245.2	238.7	232.1	238.7	245.2	246.9	261.5	280.9	290.6	304.6	332.6
147.5°	254.0	247.6	241.2	247.6	254.0	255.6	267.2	282.8	290.6	301.6	323.6
150°	258.6	252.9	247.1	252.9	258.6	260.1	270.3	283.8	290.6	299.8	318.5
152.5°	262.0	257.5	253.2	257.5	262.0	263.1	272.2	284.5	290.6	298.5	314.3
155°	268.8	265.5	262.3	265.5	268.8	269.6	276.6	285.9	290.6	296.9	309.5
157.5°	275.3	272.1	269.0	272.1	275.3	276.1	280.9	287.3	290.6	295.5	305.3
160°	278.4	276.0	273.5	276.0	278.4	279.0	282.9	288.0	290.6	294.8	303.2
162.5°	281.7	279.9	278.1	279.9	281.7	282.2	285.0	288.7	290.6	294.1	301.2
165°	286.4	284.8	283.1	284.8	286.4	286.8	288.1	289.8	290.6	293.1	298.2
167.5°	289.2	288.4	287.6	288.4	289.2	289.4	290.5	291.9	292.5	294.2	297.6
170°	292.2	291.4	290.6	291.4	292.2	292.3	292.4	292.5	292.5	294.2	297.6
172.5°	292.5	292.3	292.2	292.3	292.5	292.5	292.5	292.5	292.5	293.8	296.5
175°	294.3	294.3	294.3	294.3	294.3	294.3	293.7	292.9	292.5	293.3	295.0
177.5°	294.3	294.3	294.3	294.3	294.3	294.3	293.8	293.2	292.9	293.6	294.9
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933893

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1348.9	1345.0	1350.3	1335.7	1350.3	1345.0	1348.9	1358.2	1350.3	1355.6	1360.9
5°	1183.7	1177.1	1155.9	1138.7	1155.9	1177.1	1183.7	1211.4	1224.6	1248.5	1280.2
7.5°	1058.0	1052.8	1047.4	1036.9	1047.4	1052.8	1058.0	1066.0	1079.2	1100.4	1124.1
10°	1030.3	1031.6	1039.5	1038.2	1039.5	1031.6	1030.3	1027.6	1023.7	1027.6	1042.1
12.5°	1101.7	1113.6	1157.2	1154.6	1157.2	1113.6	1101.7	1048.8	1013.0	1006.4	1009.1
15°	1183.7	1187.6	1196.9	1198.2	1196.9	1187.6	1183.7	1162.5	1055.4	1009.1	994.6
17.5°	1191.6	1193.0	1199.6	1199.6	1199.6	1193.0	1191.6	1182.3	1146.6	1084.5	1002.5
20°	1185.0	1187.6	1200.8	1203.5	1200.8	1187.6	1185.0	1173.0	1153.2	1130.7	1068.6
22.5°	1182.3	1187.6	1198.2	1196.9	1198.2	1187.6	1182.3	1163.8	1146.6	1130.7	1105.6
25°	1169.1	1169.1	1170.5	1171.8	1170.5	1169.1	1169.1	1154.6	1120.2	1116.3	1101.7
27.5°	1141.3	1144.0	1151.9	1150.6	1151.9	1144.0	1141.3	1136.1	1099.0	1095.1	1084.5
30°	1116.3	1113.6	1107.0	1101.7	1107.0	1113.6	1116.3	1108.3	1071.3	1060.6	1063.3
32.5°	1073.9	1067.2	1060.6	1056.7	1060.6	1067.2	1073.9	1071.3	1043.5	1028.9	1031.6
35°	1023.7	1024.9	1023.7	1019.6	1023.7	1024.9	1023.7	1026.3	1009.1	995.9	994.6
37.5°	988.0	990.5	989.3	983.9	989.3	990.5	988.0	985.3	961.4	957.5	960.2
40°	950.9	952.2	950.9	947.0	950.9	952.2	950.9	945.6	912.5	913.8	923.1
42.5°	915.2	913.8	909.9	907.2	909.9	913.8	915.2	907.2	864.9	861.0	878.1
45°	874.2	875.5	867.6	863.6	867.6	875.5	874.2	868.9	825.3	814.6	826.6
47.5°	833.2	833.2	826.6	822.6	826.6	833.2	833.2	826.6	780.3	769.7	776.3
50°	789.6	788.2	778.9	777.7	778.9	788.2	789.6	785.5	736.6	727.4	727.4
52.5°	739.3	739.3	740.6	743.2	740.6	739.3	739.3	740.6	697.0	687.7	685.1
55°	695.6	697.0	706.3	708.8	706.3	697.0	695.6	695.6	656.0	646.7	641.4
57.5°	650.7	650.7	657.3	657.3	657.3	650.7	650.7	648.0	609.6	601.8	599.1
60°	599.1	601.8	607.1	605.7	607.1	601.8	599.1	596.4	563.4	558.1	548.8
62.5°	544.9	547.5	548.8	546.2	548.8	547.5	544.9	537.0	517.2	513.1	501.3
65°	488.0	490.6	492.0	489.4	492.0	490.6	488.0	484.0	469.5	462.9	452.3
67.5°	429.8	428.5	427.1	432.5	427.1	428.5	429.8	424.6	415.3	410.0	395.5
70°	370.3	370.3	369.0	371.6	369.0	370.3	370.3	366.3	361.1	357.1	343.8
72.5°	306.8	305.5	310.8	306.8	310.8	305.5	306.8	305.5	302.9	298.9	285.6
75°	244.6	247.3	244.6	248.7	244.6	247.3	244.6	246.0	244.6	242.1	232.8
77.5°	186.5	189.1	186.5	186.5	186.5	189.1	186.5	187.8	187.8	187.8	179.8
80°	132.2	130.9	130.9	129.6	130.9	130.9	132.2	132.2	133.6	130.9	128.3
82.5°	84.6	83.3	83.3	86.0	83.3	83.3	84.6	86.0	83.3	83.3	83.3
85°	46.2	47.6	45.0	45.0	45.0	47.6	46.2	43.7	46.2	46.2	45.0
87.5°	17.2	15.9	15.9	15.9	15.9	15.9	17.2	18.5	18.5	18.5	19.8
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	10.0	13.3	15.0	12.9
92.5°	37.6	36.1	30.1	24.1	30.1	36.1	37.6	53.2	74.0	84.5	74.2
95°	127.4	122.9	104.8	86.7	104.8	122.9	127.4	167.3	220.5	247.1	208.6
97.5°	294.1	285.5	251.0	216.6	251.0	285.5	294.1	319.4	353.0	369.8	305.7
100°	413.0	402.8	361.8	320.7	361.8	402.8	413.0	411.2	408.7	407.4	336.3
102.5°	514.5	505.7	470.6	435.5	470.6	505.7	514.5	482.4	439.6	418.2	346.1
105°	633.0	628.3	609.4	590.5	609.4	628.3	633.0	561.0	465.0	417.0	347.2
107.5°	694.6	695.8	700.4	704.9	700.4	695.8	694.6	594.2	460.2	393.2	331.7
110°	710.4	715.3	735.0	754.7	735.0	715.3	710.4	598.1	448.3	373.5	318.0



TEST NUMBER: P933893

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	700.4	707.9	738.1	768.3	738.1	707.9	700.4	585.4	432.2	355.6	306.1
115°	666.2	676.7	718.6	760.4	718.6	676.7	666.2	555.5	407.8	334.0	292.3
117.5°	619.0	630.6	677.1	723.5	677.1	630.6	619.0	519.0	385.8	319.2	283.8
120°	587.2	598.4	643.6	688.7	643.6	598.4	587.2	495.9	374.1	313.3	280.9
122.5°	555.4	566.6	611.0	655.5	611.0	566.6	555.4	473.2	363.5	308.7	279.3
125°	513.3	523.6	564.6	605.6	564.6	523.6	513.3	443.5	350.3	303.8	278.2
127.5°	479.6	488.3	522.8	557.4	522.8	488.3	479.6	419.6	339.7	299.6	277.4
130°	458.2	466.2	498.1	530.1	498.1	466.2	458.2	404.9	333.7	298.1	277.9
132.5°	440.1	447.2	475.8	504.4	475.8	447.2	440.1	392.2	328.5	296.7	278.2
135°	414.4	420.5	445.2	469.8	445.2	420.5	414.4	374.4	321.0	294.3	277.9
137.5°	395.4	400.4	420.6	440.8	420.6	400.4	395.4	361.6	316.5	293.9	279.5
140°	380.2	384.9	403.8	422.7	403.8	384.9	380.2	351.0	312.1	292.5	279.8
142.5°	369.6	373.6	389.9	406.0	389.9	373.6	369.6	343.9	309.7	292.5	280.9
145°	353.6	356.6	369.0	381.2	369.0	356.6	353.6	332.6	304.6	290.6	280.9
147.5°	340.1	342.6	352.8	363.0	352.8	342.6	340.1	323.6	301.6	290.6	282.8
150°	332.4	334.5	342.7	351.0	342.7	334.5	332.4	318.5	299.8	290.6	283.8
152.5°	326.3	327.8	334.1	340.3	334.1	327.8	326.3	314.3	298.5	290.6	284.5
155°	319.0	320.0	324.1	328.2	324.1	320.0	319.0	309.5	296.9	290.6	285.9
157.5°	312.7	313.4	316.3	319.2	316.3	313.4	312.7	305.3	295.5	290.6	287.3
160°	309.5	309.9	311.6	313.3	311.6	309.9	309.5	303.2	294.8	290.6	288.0
162.5°	306.5	306.9	308.5	310.1	308.5	306.9	306.5	301.2	294.1	290.6	288.7
165°	302.0	302.4	304.1	305.8	304.1	302.4	302.0	298.2	293.1	290.6	289.8
167.5°	300.0	300.2	300.9	301.6	300.9	300.2	300.0	297.6	294.2	292.5	291.9
170°	300.0	300.0	300.0	300.0	300.0	300.0	300.0	297.6	294.2	292.5	292.5
172.5°	298.5	298.3	297.7	297.1	297.7	298.3	298.5	296.5	293.8	292.5	292.5
175°	296.3	296.3	296.3	296.3	296.3	296.3	296.3	295.0	293.3	292.5	292.9
177.5°	295.9	295.7	295.0	294.3	295.0	295.7	295.9	294.9	293.6	292.9	293.2
180°	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933893

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1398.0	1398.0	1398.0	1398.0	1398.0
2.5°	1380.7	1387.3	1391.3	1396.6	1409.8
5°	1327.8	1353.0	1360.9	1380.7	1404.6
7.5°	1211.4	1288.1	1309.3	1356.9	1393.9
10°	1099.0	1175.7	1212.8	1325.2	1380.7
12.5°	1042.1	1087.2	1112.2	1269.7	1362.2
15°	1006.4	1038.2	1056.7	1195.5	1341.1
17.5°	978.7	1001.2	1014.4	1122.9	1312.0
20°	961.4	972.1	983.9	1069.9	1278.8
22.5°	949.6	943.0	952.2	1032.9	1233.9
25°	941.6	916.5	927.1	1003.8	1181.0
27.5°	948.2	892.7	896.7	977.3	1125.5
30°	949.6	863.6	864.9	949.6	1063.3
32.5°	940.3	833.2	834.6	915.2	993.2
35°	917.9	797.5	796.2	875.5	898.0
37.5°	887.4	759.1	759.1	831.9	793.5
40°	850.4	720.8	724.7	775.0	700.9
42.5°	805.5	679.7	685.1	699.7	632.1
45°	756.5	640.1	644.1	591.2	579.3
47.5°	702.2	599.1	600.5	490.6	562.1
50°	637.4	556.8	551.5	420.5	560.7
52.5°	580.6	510.5	494.6	380.9	509.2
55°	525.0	461.5	427.1	350.4	472.1
57.5°	476.1	398.0	365.0	314.7	464.2
60°	431.2	335.9	310.8	276.4	425.9
62.5°	394.1	289.6	284.4	250.0	386.2
65°	354.5	257.9	256.6	227.5	327.9
67.5°	316.1	236.7	235.5	206.3	250.0
70°	275.1	214.3	211.6	183.8	185.2
72.5°	232.8	189.1	186.5	165.4	153.4
75°	190.4	160.0	158.7	144.2	124.3
77.5°	149.5	127.0	129.6	116.3	91.3
80°	107.1	92.6	95.2	83.3	68.7
82.5°	71.4	60.8	63.5	52.9	46.2
85°	39.6	34.4	35.7	27.8	21.2
87.5°	18.5	15.9	15.9	10.6	6.6
90°	8.7	5.5	5.1	3.5	2.0
92.5°	53.6	38.2	34.8	21.3	7.9
95°	131.8	74.2	68.1	43.5	18.9
97.5°	177.6	81.5	76.1	54.5	32.8
100°	194.2	87.7	82.7	63.1	43.5
102.5°	201.9	93.8	89.2	70.9	52.6
105°	207.7	102.9	99.1	83.5	67.9
107.5°	208.6	116.3	112.7	98.2	83.7
110°	207.1	123.8	120.6	107.5	94.5



TEST NUMBER: P933893

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	207.2	132.9	129.8	117.3	104.9
115°	209.0	146.5	143.7	132.1	120.7
117.5°	213.0	159.8	157.2	146.7	136.3
120°	216.1	167.5	165.1	155.2	145.3
122.5°	220.7	176.6	174.1	164.2	154.2
125°	226.8	188.2	186.0	177.0	167.9
127.5°	232.9	199.5	197.2	188.0	179.0
130°	237.3	207.0	204.5	194.7	184.9
132.5°	241.0	213.1	210.6	200.8	191.0
135°	244.9	220.3	218.0	209.0	200.1
137.5°	250.8	229.3	227.1	218.2	209.3
140°	254.5	235.5	233.4	225.2	217.0
142.5°	257.5	240.0	238.1	230.5	223.0
145°	261.5	246.9	245.2	238.7	232.1
147.5°	267.2	255.6	254.0	247.6	241.2
150°	270.3	260.1	258.6	252.9	247.1
152.5°	272.2	263.1	262.0	257.5	253.2
155°	276.6	269.6	268.8	265.5	262.3
157.5°	280.9	276.1	275.3	272.1	269.0
160°	282.9	279.0	278.4	276.0	273.5
162.5°	285.0	282.2	281.7	279.9	278.1
165°	288.1	286.8	286.4	284.8	283.1
167.5°	290.5	289.4	289.2	288.4	287.6
170°	292.4	292.3	292.2	291.4	290.6
172.5°	292.5	292.5	292.5	292.3	292.2
175°	293.7	294.3	294.3	294.3	294.3
177.5°	293.8	294.3	294.3	294.3	294.3
180°	294.3	294.3	294.3	294.3	294.3



TEST NUMBER: P933893  
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-3000K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.62	13.64	13.44	14.48	15.51	15.46	16.48	16.27	17.32	18.35
	3H	13.11	14.03	13.94	14.87	15.93	16.82	17.74	17.65	18.58	19.64
	4H	13.31	14.18	14.15	15.03	16.10	17.28	18.14	18.12	18.99	20.06
	6H	13.44	14.24	14.29	15.09	16.18	17.57	18.37	18.42	19.23	20.31
	8H	13.44	14.20	14.31	15.08	16.16	17.65	18.41	18.51	19.29	20.37
	12H	13.42	14.14	14.29	15.02	16.12	17.70	18.42	18.56	19.29	20.40
4H	2H	13.68	14.54	14.52	15.39	16.46	15.89	16.75	16.74	17.61	18.68
	3H	14.72	15.44	15.58	16.32	17.41	17.41	18.13	18.27	19.02	20.10
	4H	15.00	15.66	15.87	16.54	17.65	17.95	18.61	18.82	19.49	20.60
	6H	15.14	15.70	16.02	16.61	17.72	18.33	18.89	19.21	19.80	20.91
	8H	15.15	15.68	16.03	16.58	17.70	18.44	18.97	19.33	19.87	21.00
	12H	15.12	15.60	16.03	16.52	17.65	18.50	18.98	19.41	19.90	21.03
8H	4H	15.47	16.00	16.36	16.90	18.03	18.09	18.62	18.98	19.52	20.64
	6H	15.74	16.18	16.65	17.12	18.25	18.53	18.97	19.45	19.91	21.04
	8H	15.78	16.17	16.71	17.10	18.25	18.69	19.07	19.61	20.01	21.15
	12H	15.77	16.12	16.70	17.04	18.24	18.79	19.14	19.72	20.06	21.26
12H	4H	15.48	15.96	16.39	16.88	18.01	18.06	18.54	18.97	19.45	20.59
	6H	15.80	16.19	16.73	17.12	18.27	18.53	18.92	19.46	19.85	21.00
	8H	15.88	16.22	16.80	17.14	18.34	18.70	19.04	19.63	19.97	21.17