

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: P934389

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934389
REPORT IS A COMBINATION OF REPORTS P933695 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

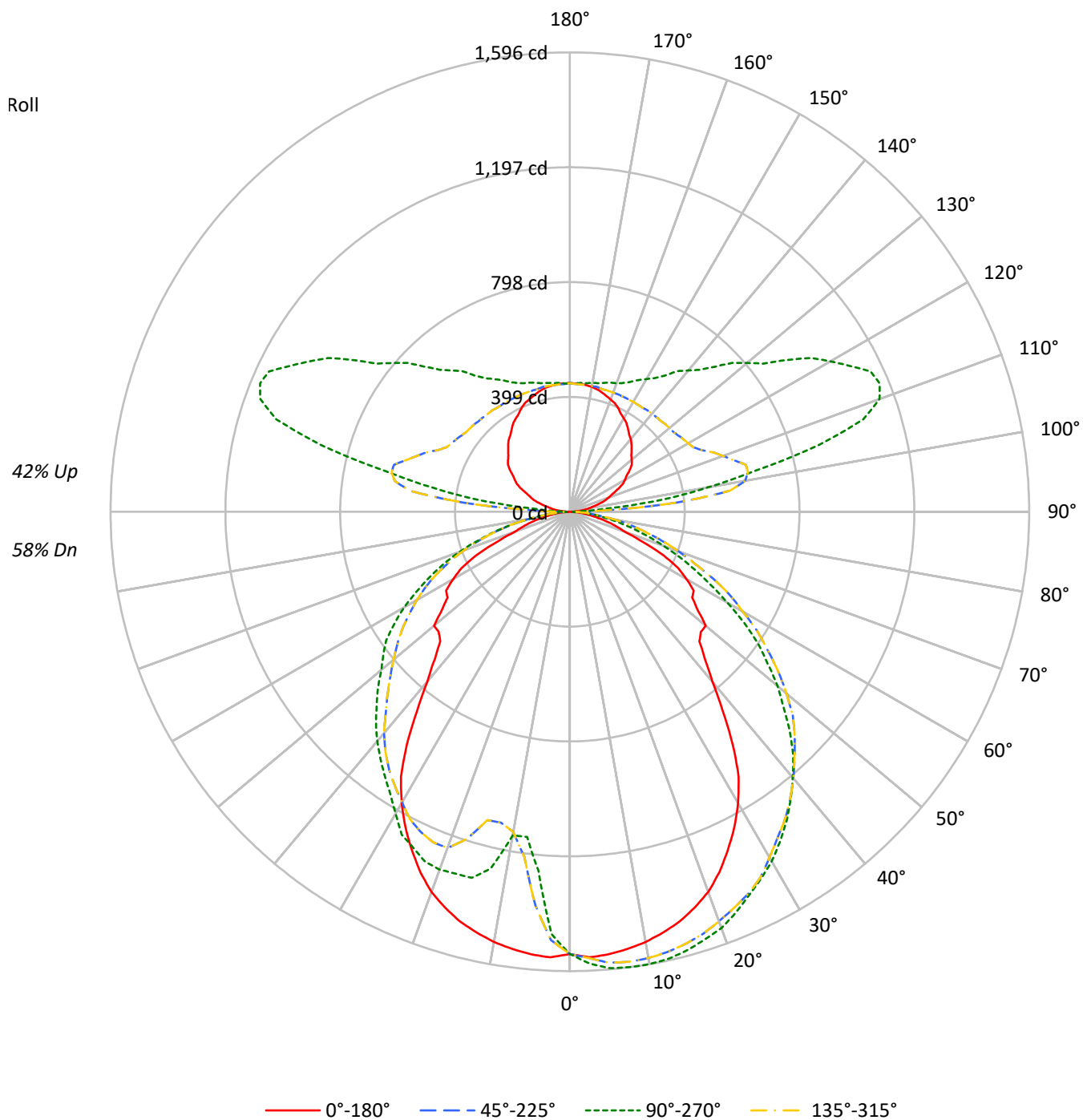
Lumens per Lamp: N/A
Luminaire Lumens: 6878.8 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 54.6
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: P934389

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P934389

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9504	9504	9504	9504
5°	9571	9594	9571	7544
10°	9504	9450	9504	6756
15°	9397	9245	9397	7721
20°	9197	9003	9197	7737
25°	8791	8649	8791	7572
30°	8268	8356	8268	7213
35°	7367	7984	7367	6817
40°	6136	7547	6136	6518
45°	5478	7035	5478	6174
50°	5816	6425	5816	5830
55°	5466	5767	5466	5630
60°	5628	4898	5628	5156
65°	5095	4048	5095	4526
70°	3520	3227	3520	3793
75°	3074	2385	3074	2856
80°	2461	1577	2461	1716
85°	1389	835	1389	710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 8402 cd/sqm

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CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	2.0
10°-20°	393.8	5.7
20°-30°	608.7	8.8
30°-40°	726.6	10.6
40°-50°	730.9	10.6
50°-60°	636.0	9.2
60°-70°	450.9	6.6
70°-80°	238.6	3.5
80°-90°	61.1	0.9
90°-100°	217.6	3.2
100°-110°	572.0	8.3
110°-120°	593.1	8.6
120°-130°	475.8	6.9
130°-140°	373.3	5.4
140°-150°	286.5	4.2
150°-160°	206.4	3.0
160°-170°	126.3	1.8
170°-180°	42.7	0.6
0°-30°	1141.1	16.6
0°-40°	1867.7	27.2
0°-60°	3234.6	47.0
0°-90°	3985.2	57.9
90°-120°	1382.8	20.1
90°-150°	2518.4	36.6
90°-180°	2894.0	42.1
0°-180°	6878.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1536	1536	1536	1536	1536	
5°	1544	1592	1544	1252	1544	146
15°	1474	1577	1474	1317	1474	415
25°	1298	1471	1298	1288	1298	596
35°	987	1312	987	1121	987	611
45°	637	1081	637	949	637	510
55°	519	798	519	779	519	477
65°	360	481	360	538	360	345
75°	137	228	137	273	137	144
85°	23	58	23	49	23	31
90°	3	11	3	11	3	3
95°	29	132	29	132	29	32
105°	103	896	103	896	103	109
115°	183	1153	183	1153	183	181
125°	255	918	255	918	255	226
135°	304	713	304	713	304	235
145°	352	578	352	578	352	221
155°	398	498	398	498	398	183
165°	429	464	429	464	429	121
175°	446	449	446	449	446	42
180°	446	446	446	446	446	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1549.4	1549.4	1558.2	1561.1	1561.1	1556.7	1552.3	1556.7	1569.8	1574.1	1572.7
5°	1543.6	1555.2	1571.2	1574.1	1577.0	1575.6	1572.7	1575.6	1590.1	1593.0	1594.5
7.5°	1532.0	1553.8	1574.1	1578.5	1582.9	1578.5	1577.0	1580.0	1594.5	1597.4	1597.4
10°	1517.5	1548.0	1571.2	1574.1	1578.5	1574.1	1574.1	1580.0	1594.5	1597.4	1598.8
12.5°	1497.1	1539.3	1561.1	1564.0	1569.8	1568.3	1566.9	1572.7	1587.2	1590.1	1590.1
15°	1473.8	1523.3	1543.6	1546.5	1556.7	1553.8	1553.8	1559.6	1575.6	1580.0	1578.5
17.5°	1441.9	1502.9	1526.2	1530.5	1537.8	1536.3	1537.8	1543.6	1558.2	1561.1	1562.5
20°	1405.5	1475.3	1502.9	1507.3	1514.5	1514.5	1514.5	1521.8	1536.3	1542.2	1542.2
22.5°	1356.1	1446.2	1475.3	1478.2	1486.9	1486.9	1489.8	1500.0	1513.1	1514.5	1514.5
25°	1298.0	1414.3	1439.0	1447.7	1456.4	1460.8	1465.1	1470.9	1475.3	1473.8	1475.3
27.5°	1236.9	1373.6	1405.5	1411.3	1423.0	1427.3	1433.2	1434.6	1436.1	1440.4	1437.5
30°	1168.6	1316.9	1364.8	1370.7	1389.5	1392.5	1386.6	1389.5	1396.8	1399.7	1402.6
32.5°	1091.6	1232.6	1322.7	1335.8	1353.2	1344.5	1343.0	1347.4	1359.0	1359.0	1361.9
35°	986.9	1167.2	1283.4	1295.1	1308.1	1298.0	1303.8	1305.2	1312.5	1316.9	1315.4
37.5°	872.1	1110.5	1242.7	1251.5	1261.6	1248.6	1257.3	1261.6	1267.5	1264.5	1264.5
40°	770.4	1021.8	1194.8	1200.6	1209.3	1199.1	1207.9	1210.8	1213.7	1210.8	1209.3
42.5°	694.8	924.4	1143.9	1151.2	1145.4	1152.6	1155.5	1161.3	1157.0	1151.2	1151.2
45°	636.6	898.3	1088.7	1097.4	1088.7	1100.3	1104.7	1104.7	1091.6	1088.7	1087.2
47.5°	617.7	845.9	1033.4	1033.4	1029.1	1043.6	1050.9	1040.7	1027.6	1023.3	1023.3
50°	616.3	787.8	957.9	952.0	972.4	989.8	982.6	972.4	962.2	946.2	946.2
52.5°	559.6	716.6	860.5	882.3	914.3	924.4	912.8	902.6	885.2	877.9	872.1
55°	518.9	642.4	771.8	815.4	848.8	861.9	840.1	829.9	803.8	799.4	796.5
57.5°	510.2	534.9	690.4	745.6	786.3	784.9	771.8	752.9	731.1	726.8	725.3
60°	468.0	386.6	603.2	668.6	710.8	706.4	694.8	677.3	657.0	654.1	651.2
62.5°	424.4	280.5	504.4	578.5	638.1	636.6	626.5	600.3	585.8	578.5	572.7
65°	360.5	235.5	359.0	481.1	566.9	569.8	548.0	529.1	513.1	504.4	502.9
67.5°	274.7	191.9	242.7	401.2	498.6	495.6	468.0	459.3	439.0	434.6	425.9
70°	203.5	127.9	168.6	325.6	431.7	424.4	402.6	392.4	373.5	363.4	357.6
72.5°	168.6	103.2	123.5	252.9	363.4	354.7	335.8	324.1	308.1	299.4	293.6
75°	136.6	109.0	94.5	187.5	295.1	289.2	271.8	260.2	247.1	235.5	236.9
77.5°	100.3	101.7	75.6	138.1	234.0	225.3	215.1	200.6	194.8	183.1	183.1
80°	75.6	79.9	56.7	94.5	168.6	168.6	159.9	149.7	139.5	133.7	133.7
82.5°	50.9	50.9	42.2	59.6	114.8	110.5	104.7	101.7	95.9	93.0	93.0
85°	23.3	29.1	26.2	36.3	62.5	65.4	65.4	62.5	61.0	58.1	59.6
87.5°	7.3	13.1	16.0	20.3	32.0	33.4	34.9	34.9	34.9	36.3	36.3
90°	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1	11.3	11.3
92.5°	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6	56.9	54.7
95°	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8	193.2	186.3
97.5°	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3	446.0	432.9
100°	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6	626.5	611.0
102.5°	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7	780.4	767.2
105°	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9	960.2	953.0
107.5°	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2	1053.6	1055.3
110°	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3	1077.6	1085.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0	1062.3	1073.7
115°	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5	1010.5	1026.4
117.5°	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3	938.9	956.5
120°	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1	890.6	907.8
122.5°	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7	842.4	859.3
125°	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7	778.6	794.1
127.5°	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3	727.3	740.4
130°	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1	695.1	707.2
132.5°	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0	667.4	678.3
135°	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8	628.5	637.9
137.5°	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4	599.7	607.4
140°	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4	576.7	583.8
142.5°	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5	560.5	566.7
145°	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4	536.2	540.9
147.5°	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8	515.9	519.8
150°	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0	504.2	507.3
152.5°	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8	494.9	497.2
155°	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5	483.8	485.4
157.5°	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1	474.2	475.3
160°	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9	469.5	470.1
162.5°	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9	464.9	465.5
165°	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2	458.0	458.7
167.5°	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3	455.0	455.3
170°	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3	455.0	455.0
172.5°	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6	452.6	452.4
175°	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5	449.3	449.3
177.5°	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3	448.7	448.5
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1575.6	1571.2	1575.6	1572.7	1574.1	1569.8	1556.7	1552.3	1556.7	1561.1	1561.1
5°	1594.5	1591.6	1594.5	1594.5	1593.0	1590.1	1575.6	1572.7	1575.6	1577.0	1574.1
7.5°	1600.3	1595.9	1600.3	1597.4	1597.4	1594.5	1580.0	1577.0	1578.5	1582.9	1578.5
10°	1600.3	1595.9	1600.3	1598.8	1597.4	1594.5	1580.0	1574.1	1574.1	1578.5	1574.1
12.5°	1593.0	1590.1	1593.0	1590.1	1590.1	1587.2	1572.7	1566.9	1568.3	1569.8	1564.0
15°	1581.4	1577.0	1581.4	1578.5	1580.0	1575.6	1559.6	1553.8	1553.8	1556.7	1546.5
17.5°	1564.0	1558.2	1564.0	1562.5	1561.1	1558.2	1543.6	1537.8	1536.3	1537.8	1530.5
20°	1543.6	1539.3	1543.6	1542.2	1542.2	1536.3	1521.8	1514.5	1514.5	1514.5	1507.3
22.5°	1511.6	1507.3	1511.6	1514.5	1514.5	1513.1	1500.0	1489.8	1486.9	1486.9	1478.2
25°	1475.3	1470.9	1475.3	1475.3	1473.8	1475.3	1470.9	1465.1	1460.8	1456.4	1447.7
27.5°	1440.4	1437.5	1440.4	1437.5	1440.4	1436.1	1434.6	1433.2	1427.3	1423.0	1411.3
30°	1405.5	1402.6	1405.5	1402.6	1399.7	1396.8	1389.5	1386.6	1392.5	1389.5	1370.7
32.5°	1361.9	1359.0	1361.9	1361.9	1359.0	1359.0	1347.4	1343.0	1344.5	1353.2	1335.8
35°	1316.9	1312.5	1316.9	1315.4	1316.9	1312.5	1305.2	1303.8	1298.0	1308.1	1295.1
37.5°	1264.5	1260.2	1264.5	1264.5	1264.5	1267.5	1261.6	1257.3	1248.6	1261.6	1251.5
40°	1210.8	1205.0	1210.8	1209.3	1210.8	1213.7	1210.8	1207.9	1199.1	1209.3	1200.6
42.5°	1149.7	1148.3	1149.7	1151.2	1151.2	1157.0	1161.3	1155.5	1152.6	1145.4	1151.2
45°	1084.3	1081.4	1084.3	1087.2	1088.7	1091.6	1104.7	1104.7	1100.3	1088.7	1097.4
47.5°	1014.5	1007.3	1014.5	1023.3	1023.3	1027.6	1040.7	1050.9	1043.6	1029.1	1033.4
50°	940.4	941.9	940.4	946.2	946.2	962.2	972.4	982.6	989.8	972.4	952.0
52.5°	867.7	866.3	867.7	872.1	877.9	885.2	902.6	912.8	924.4	914.3	882.3
55°	795.1	798.0	795.1	796.5	799.4	803.8	829.9	840.1	861.9	848.8	815.4
57.5°	722.4	718.0	722.4	725.3	726.8	731.1	752.9	771.8	784.9	786.3	745.6
60°	638.1	632.3	638.1	651.2	654.1	657.0	677.3	694.8	706.4	710.8	668.6
62.5°	564.0	553.8	564.0	572.7	578.5	585.8	600.3	626.5	636.6	638.1	578.5
65°	485.5	481.1	485.5	502.9	504.4	513.1	529.1	548.0	569.8	566.9	481.1
67.5°	414.2	414.2	414.2	425.9	434.6	439.0	459.3	468.0	495.6	498.6	401.2
70°	348.8	347.4	348.8	357.6	363.4	373.5	392.4	402.6	424.4	431.7	325.6
72.5°	286.3	284.9	286.3	293.6	299.4	308.1	324.1	335.8	354.7	363.4	252.9
75°	231.1	228.2	231.1	236.9	235.5	247.1	260.2	271.8	289.2	295.1	187.5
77.5°	177.3	177.3	177.3	183.1	183.1	194.8	200.6	215.1	225.3	234.0	138.1
80°	132.3	130.8	132.3	133.7	133.7	139.5	149.7	159.9	168.6	168.6	94.5
82.5°	93.0	90.1	93.0	93.0	93.0	95.9	101.7	104.7	110.5	114.8	59.6
85°	58.1	58.1	58.1	59.6	58.1	61.0	62.5	65.4	65.4	62.5	36.3
87.5°	37.8	36.3	37.8	36.3	36.3	34.9	34.9	34.9	33.4	32.0	20.3
90°	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6	13.2	8.4
92.5°	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6	81.3	57.8
95°	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6	200.0	112.6
97.5°	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8	269.5	123.7
100°	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3	294.7	133.0
102.5°	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9	306.3	142.3
105°	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6	314.8	156.1
107.5°	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1	316.5	176.5
110°	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4	314.1	187.8

TEST NUMBER: P934389

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2	314.1	201.6
115°	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4	317.1	222.3
117.5°	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4	323.0	242.3
120°	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0	327.7	254.1
122.5°	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6	334.6	267.8
125°	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8	343.9	285.5
127.5°	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7	353.2	302.6
130°	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3	360.0	314.0
132.5°	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8	365.5	323.3
135°	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4	371.5	334.0
137.5°	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9	380.4	347.8
140°	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4	386.0	357.1
142.5°	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0	390.5	364.0
145°	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0	396.6	374.5
147.5°	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9	405.3	387.7
150°	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4	410.0	394.6
152.5°	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4	412.9	399.0
155°	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6	419.5	408.9
157.5°	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9	426.1	418.8
160°	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8	429.1	423.3
162.5°	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9	432.3	428.1
165°	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4	436.9	435.0
167.5°	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6	440.5	438.9
170°	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6	443.5	443.4
172.5°	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3	445.5	446.4
177.5°	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8	445.7	446.4
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

TEST NUMBER: P934389

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1558.2	1549.4	1549.4	1534.9	1529.1	1524.7	1517.5	1495.7	1489.8	1484.0	1492.7
5°	1571.2	1555.2	1543.6	1517.5	1495.7	1486.9	1459.3	1407.0	1372.1	1345.9	1331.4
7.5°	1574.1	1553.8	1532.0	1491.3	1439.0	1415.7	1331.4	1235.5	1209.3	1186.1	1171.5
10°	1571.2	1548.0	1517.5	1456.4	1332.9	1292.2	1207.9	1145.4	1129.4	1125.0	1129.4
12.5°	1561.1	1539.3	1497.1	1395.4	1222.4	1194.8	1145.4	1109.0	1106.1	1113.4	1152.6
15°	1543.6	1523.3	1473.8	1314.0	1161.3	1141.0	1106.1	1093.0	1109.0	1159.9	1277.6
17.5°	1526.2	1502.9	1441.9	1234.0	1114.8	1100.3	1075.6	1101.8	1191.9	1260.2	1299.4
20°	1502.9	1475.3	1405.5	1175.9	1081.4	1068.3	1056.7	1174.4	1242.7	1267.5	1289.3
22.5°	1475.3	1446.2	1356.1	1135.2	1046.5	1036.3	1043.6	1215.1	1242.7	1260.2	1279.1
25°	1439.0	1414.3	1298.0	1103.2	1018.9	1007.3	1034.9	1210.8	1226.8	1231.1	1268.9
27.5°	1405.5	1373.6	1236.9	1074.1	985.5	981.1	1042.2	1191.9	1203.5	1207.9	1248.6
30°	1364.8	1316.9	1168.6	1043.6	950.6	949.1	1043.6	1168.6	1165.7	1177.3	1218.0
32.5°	1322.7	1232.6	1091.6	1005.8	917.2	915.7	1033.4	1133.7	1130.8	1146.8	1177.3
35°	1283.4	1167.2	986.9	962.2	875.0	876.5	1008.7	1093.0	1094.5	1109.0	1127.9
37.5°	1242.7	1110.5	872.1	914.3	834.3	834.3	975.3	1055.2	1052.3	1056.7	1082.9
40°	1194.8	1021.8	770.4	851.8	796.5	792.2	934.6	1014.5	1004.4	1002.9	1039.3
42.5°	1143.9	924.4	694.8	768.9	752.9	747.1	885.2	965.1	946.2	950.6	997.1
45°	1088.7	898.3	636.6	649.7	707.9	703.5	831.4	908.4	895.4	907.0	954.9
47.5°	1033.4	845.9	617.7	539.2	659.9	658.4	771.8	853.2	845.9	857.6	908.4
50°	957.9	787.8	616.3	462.2	606.1	611.9	700.6	799.4	799.4	809.6	863.4
52.5°	860.5	716.6	559.6	418.6	543.6	561.1	638.1	752.9	755.8	766.0	814.0
55°	771.8	642.4	518.9	385.2	469.5	507.3	577.0	704.9	710.8	720.9	764.5
57.5°	690.4	534.9	510.2	345.9	401.2	437.5	523.3	658.4	661.3	670.1	712.2
60°	603.2	386.6	468.0	303.8	341.6	369.2	473.8	603.2	613.4	619.2	655.5
62.5°	504.4	280.5	424.4	274.7	312.5	318.3	433.1	550.9	564.0	568.3	590.1
65°	359.0	235.5	360.5	250.0	282.0	283.4	389.5	497.1	508.7	516.0	532.0
67.5°	242.7	191.9	274.7	226.7	258.7	260.2	347.4	434.6	450.6	456.4	466.6
70°	168.6	127.9	203.5	202.0	232.6	235.5	302.3	377.9	392.4	396.8	402.6
72.5°	123.5	103.2	168.6	181.7	204.9	207.9	255.8	314.0	328.5	332.9	335.8
75°	94.5	109.0	136.6	158.4	174.4	175.9	209.3	255.8	266.0	268.9	270.4
77.5°	75.6	101.7	100.3	127.9	142.4	139.5	164.2	197.7	206.4	206.4	206.4
80°	56.7	79.9	75.6	91.6	104.7	101.7	117.7	141.0	143.9	146.8	145.4
82.5°	42.2	50.9	50.9	58.1	69.8	66.9	78.5	91.6	91.6	91.6	94.5
85°	26.2	29.1	23.3	30.5	39.2	37.8	43.6	49.4	50.9	50.9	48.0
87.5°	16.0	13.1	7.3	11.6	17.4	17.4	20.3	21.8	20.3	20.3	20.3
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.2	19.6	22.8	20.3	15.1
92.5°	52.7	32.4	12.0	32.4	52.7	57.8	81.3	112.6	128.2	112.3	80.6
95°	103.3	66.0	28.8	66.0	103.3	112.6	200.0	316.6	374.8	334.5	253.8
97.5°	115.5	82.7	49.7	82.7	115.5	123.7	269.5	463.8	560.9	535.4	484.3
100°	125.6	95.7	65.9	95.7	125.6	133.0	294.7	510.3	618.0	619.9	623.6
102.5°	135.4	107.6	79.7	107.6	135.4	142.3	306.3	524.9	634.2	666.7	731.7
105°	150.2	126.6	103.1	126.6	150.2	156.1	314.8	526.6	632.4	705.2	850.9
107.5°	170.9	149.0	127.0	149.0	170.9	176.5	316.5	503.1	596.4	698.0	901.2
110°	182.9	163.0	143.2	163.0	182.9	187.8	314.1	482.4	566.5	680.0	907.3

TEST NUMBER: P934389

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	196.9	178.0	159.1	178.0	196.9	201.6	314.1	464.2	539.2	655.5	888.0
115°	217.9	200.5	183.0	200.5	217.9	222.3	317.1	443.4	506.6	618.6	842.5
117.5°	238.4	222.6	206.7	222.6	238.4	242.3	323.0	430.4	484.1	585.2	787.3
120°	250.3	235.4	220.4	235.4	250.3	254.1	327.7	426.0	475.1	567.4	752.1
122.5°	264.1	249.0	234.0	249.0	264.1	267.8	334.6	423.6	468.2	551.4	717.7
125°	282.1	268.3	254.7	268.3	282.1	285.5	343.9	421.8	460.8	531.4	672.7
127.5°	299.1	285.3	271.4	285.3	299.1	302.6	353.2	420.7	454.5	515.1	636.3
130°	310.3	295.4	280.4	295.4	310.3	314.0	360.0	421.3	452.0	506.0	614.1
132.5°	319.6	304.7	289.7	304.7	319.6	323.3	365.5	421.8	450.0	498.4	595.0
135°	330.6	317.1	303.5	317.1	330.6	334.0	371.5	421.4	446.4	486.9	567.8
137.5°	344.4	331.0	317.5	331.0	344.4	347.8	380.4	423.9	445.7	479.9	548.4
140°	354.0	341.7	329.3	341.7	354.0	357.1	386.0	424.4	443.7	473.3	532.4
142.5°	361.0	349.6	338.2	349.6	361.0	364.0	390.5	426.0	443.7	469.7	521.5
145°	372.0	362.0	352.0	362.0	372.0	374.5	396.6	426.0	440.7	461.9	504.4
147.5°	385.3	375.5	365.8	375.5	385.3	387.7	405.3	428.9	440.7	457.4	490.8
150°	392.3	383.6	374.8	383.6	392.3	394.6	410.0	430.4	440.7	454.8	483.0
152.5°	397.4	390.7	384.0	390.7	397.4	399.0	412.9	431.4	440.7	452.7	476.8
155°	407.7	402.8	397.9	402.8	407.7	408.9	419.5	433.6	440.7	450.3	469.5
157.5°	417.6	412.8	408.0	412.8	417.6	418.8	426.1	435.9	440.7	448.2	463.1
160°	422.3	418.6	414.9	418.6	422.3	423.3	429.1	436.8	440.7	447.1	459.9
162.5°	427.4	424.6	421.8	424.6	427.4	428.1	432.3	437.9	440.7	446.1	456.9
165°	434.3	431.8	429.3	431.8	434.3	435.0	436.9	439.4	440.7	444.6	452.2
167.5°	438.6	437.3	436.1	437.3	438.6	438.9	440.5	442.6	443.7	446.2	451.3
170°	443.1	441.9	440.7	441.9	443.1	443.4	443.5	443.6	443.7	446.2	451.3
172.5°	443.6	443.4	443.1	443.4	443.6	443.7	443.7	443.7	443.7	445.6	449.6
175°	446.4	446.4	446.4	446.4	446.4	446.4	445.5	444.3	443.7	445.0	447.5
177.5°	446.4	446.4	446.4	446.4	446.4	446.4	445.7	444.8	444.3	445.3	447.3
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

TEST NUMBER: P934389

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1482.6	1478.2	1484.0	1468.0	1484.0	1478.2	1482.6	1492.7	1484.0	1489.8	1495.7
5°	1300.9	1293.6	1270.4	1251.5	1270.4	1293.6	1300.9	1331.4	1345.9	1372.1	1407.0
7.5°	1162.8	1157.0	1151.2	1139.5	1151.2	1157.0	1162.8	1171.5	1186.1	1209.3	1235.5
10°	1132.3	1133.7	1142.5	1141.0	1142.5	1133.7	1132.3	1129.4	1125.0	1129.4	1145.4
12.5°	1210.8	1223.8	1271.8	1268.9	1271.8	1223.8	1210.8	1152.6	1113.4	1106.1	1109.0
15°	1300.9	1305.2	1315.4	1316.9	1315.4	1305.2	1300.9	1277.6	1159.9	1109.0	1093.0
17.5°	1309.6	1311.1	1318.3	1318.3	1318.3	1311.1	1309.6	1299.4	1260.2	1191.9	1101.8
20°	1302.3	1305.2	1319.8	1322.7	1319.8	1305.2	1302.3	1289.3	1267.5	1242.7	1174.4
22.5°	1299.4	1305.2	1316.9	1315.4	1316.9	1305.2	1299.4	1279.1	1260.2	1242.7	1215.1
25°	1284.9	1284.9	1286.3	1287.8	1286.3	1284.9	1284.9	1268.9	1231.1	1226.8	1210.8
27.5°	1254.4	1257.3	1266.0	1264.5	1266.0	1257.3	1254.4	1248.6	1207.9	1203.5	1191.9
30°	1226.8	1223.8	1216.6	1210.8	1216.6	1223.8	1226.8	1218.0	1177.3	1165.7	1168.6
32.5°	1180.2	1173.0	1165.7	1161.3	1165.7	1173.0	1180.2	1177.3	1146.8	1130.8	1133.7
35°	1125.0	1126.5	1125.0	1120.6	1125.0	1126.5	1125.0	1127.9	1109.0	1094.5	1093.0
37.5°	1085.8	1088.7	1087.2	1081.4	1087.2	1088.7	1085.8	1082.9	1056.7	1052.3	1055.2
40°	1045.1	1046.5	1045.1	1040.7	1045.1	1046.5	1045.1	1039.3	1002.9	1004.4	1014.5
42.5°	1005.8	1004.4	1000.0	997.1	1000.0	1004.4	1005.8	997.1	950.6	946.2	965.1
45°	960.8	962.2	953.5	949.1	953.5	962.2	960.8	954.9	907.0	895.4	908.4
47.5°	915.7	915.7	908.4	904.1	908.4	915.7	915.7	908.4	857.6	845.9	853.2
50°	867.7	866.3	856.1	854.7	856.1	866.3	867.7	863.4	809.6	799.4	799.4
52.5°	812.5	812.5	814.0	816.9	814.0	812.5	812.5	814.0	766.0	755.8	752.9
55°	764.5	766.0	776.2	779.1	776.2	766.0	764.5	764.5	720.9	710.8	704.9
57.5°	715.1	715.1	722.4	722.4	722.4	715.1	715.1	712.2	670.1	661.3	658.4
60°	658.4	661.3	667.2	665.7	667.2	661.3	658.4	655.5	619.2	613.4	603.2
62.5°	598.8	601.7	603.2	600.3	603.2	601.7	598.8	590.1	568.3	564.0	550.9
65°	536.3	539.2	540.7	537.8	540.7	539.2	536.3	532.0	516.0	508.7	497.1
67.5°	472.4	470.9	469.5	475.3	469.5	470.9	472.4	466.6	456.4	450.6	434.6
70°	407.0	407.0	405.5	408.4	405.5	407.0	407.0	402.6	396.8	392.4	377.9
72.5°	337.2	335.8	341.6	337.2	341.6	335.8	337.2	335.8	332.9	328.5	314.0
75°	268.9	271.8	268.9	273.3	268.9	271.8	268.9	270.4	268.9	266.0	255.8
77.5°	204.9	207.9	204.9	204.9	204.9	207.9	204.9	206.4	206.4	206.4	197.7
80°	145.4	143.9	143.9	142.4	143.9	143.9	145.4	145.4	146.8	143.9	141.0
82.5°	93.0	91.6	91.6	94.5	91.6	91.6	93.0	94.5	91.6	91.6	91.6
85°	50.9	52.3	49.4	49.4	49.4	52.3	50.9	48.0	50.9	50.9	49.4
87.5°	18.9	17.4	17.4	17.4	17.4	17.4	18.9	20.3	20.3	20.3	21.8
90°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	15.1	20.3	22.8	19.6
92.5°	56.9	54.7	45.5	36.5	45.5	54.7	56.9	80.6	112.3	128.2	112.6
95°	193.2	186.3	158.9	131.5	158.9	186.3	193.2	253.8	334.5	374.8	316.6
97.5°	446.0	432.9	380.8	328.7	380.8	432.9	446.0	484.3	535.4	560.9	463.8
100°	626.5	611.0	548.7	486.5	548.7	611.0	626.5	623.6	619.9	618.0	510.3
102.5°	780.4	767.2	713.9	660.6	713.9	767.2	780.4	731.7	666.7	634.2	524.9
105°	960.2	953.0	924.4	895.7	924.4	953.0	960.2	850.9	705.2	632.4	526.6
107.5°	1053.6	1055.3	1062.2	1069.2	1062.2	1055.3	1053.6	901.2	698.0	596.4	503.1
110°	1077.6	1085.1	1114.8	1144.7	1114.8	1085.1	1077.6	907.3	680.0	566.5	482.4

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1062.3	1073.7	1119.6	1165.3	1119.6	1073.7	1062.3	888.0	655.5	539.2	464.2
115°	1010.5	1026.4	1089.8	1153.4	1089.8	1026.4	1010.5	842.5	618.6	506.6	443.4
117.5°	938.9	956.5	1026.9	1097.4	1026.9	956.5	938.9	787.3	585.2	484.1	430.4
120°	890.6	907.8	976.2	1044.7	976.2	907.8	890.6	752.1	567.4	475.1	426.0
122.5°	842.4	859.3	926.8	994.3	926.8	859.3	842.4	717.7	551.4	468.2	423.6
125°	778.6	794.1	856.3	918.5	856.3	794.1	778.6	672.7	531.4	460.8	421.8
127.5°	727.3	740.4	792.9	845.5	792.9	740.4	727.3	636.3	515.1	454.5	420.7
130°	695.1	707.2	755.6	804.1	755.6	707.2	695.1	614.1	506.0	452.0	421.3
132.5°	667.4	678.3	721.7	765.1	721.7	678.3	667.4	595.0	498.4	450.0	421.8
135°	628.5	637.9	675.3	712.7	675.3	637.9	628.5	567.8	486.9	446.4	421.4
137.5°	599.7	607.4	638.1	668.7	638.1	607.4	599.7	548.4	479.9	445.7	423.9
140°	576.7	583.8	612.4	641.1	612.4	583.8	576.7	532.4	473.3	443.7	424.4
142.5°	560.5	566.7	591.3	615.9	591.3	566.7	560.5	521.5	469.7	443.7	426.0
145°	536.2	540.9	559.6	578.2	559.6	540.9	536.2	504.4	461.9	440.7	426.0
147.5°	515.9	519.8	535.2	550.6	535.2	519.8	515.9	490.8	457.4	440.7	428.9
150°	504.2	507.3	519.9	532.4	519.9	507.3	504.2	483.0	454.8	440.7	430.4
152.5°	494.9	497.2	506.7	516.2	506.7	497.2	494.9	476.8	452.7	440.7	431.4
155°	483.8	485.4	491.7	497.9	491.7	485.4	483.8	469.5	450.3	440.7	433.6
157.5°	474.2	475.3	479.8	484.1	479.8	475.3	474.2	463.1	448.2	440.7	435.9
160°	469.5	470.1	472.6	475.1	472.6	470.1	469.5	459.9	447.1	440.7	436.8
162.5°	464.9	465.5	467.9	470.4	467.9	465.5	464.9	456.9	446.1	440.7	437.9
165°	458.0	458.7	461.2	463.8	461.2	458.7	458.0	452.2	444.6	440.7	439.4
167.5°	455.0	455.3	456.4	457.5	456.4	455.3	455.0	451.3	446.2	443.7	442.6
170°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	451.3	446.2	443.7	443.6
172.5°	452.6	452.4	451.5	450.6	451.5	452.4	452.6	449.6	445.6	443.7	443.7
175°	449.3	449.3	449.3	449.3	449.3	449.3	449.3	447.5	445.0	443.7	444.3
177.5°	448.7	448.5	447.5	446.4	447.5	448.5	448.7	447.3	445.3	444.3	444.8
180°	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4	446.4

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CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1536.3	1536.3	1536.3	1536.3	1536.3
2.5°	1517.5	1524.7	1529.1	1534.9	1549.4
5°	1459.3	1486.9	1495.7	1517.5	1543.6
7.5°	1331.4	1415.7	1439.0	1491.3	1532.0
10°	1207.9	1292.2	1332.9	1456.4	1517.5
12.5°	1145.4	1194.8	1222.4	1395.4	1497.1
15°	1106.1	1141.0	1161.3	1314.0	1473.8
17.5°	1075.6	1100.3	1114.8	1234.0	1441.9
20°	1056.7	1068.3	1081.4	1175.9	1405.5
22.5°	1043.6	1036.3	1046.5	1135.2	1356.1
25°	1034.9	1007.3	1018.9	1103.2	1298.0
27.5°	1042.2	981.1	985.5	1074.1	1236.9
30°	1043.6	949.1	950.6	1043.6	1168.6
32.5°	1033.4	915.7	917.2	1005.8	1091.6
35°	1008.7	876.5	875.0	962.2	986.9
37.5°	975.3	834.3	834.3	914.3	872.1
40°	934.6	792.2	796.5	851.8	770.4
42.5°	885.2	747.1	752.9	768.9	694.8
45°	831.4	703.5	707.9	649.7	636.6
47.5°	771.8	658.4	659.9	539.2	617.7
50°	700.6	611.9	606.1	462.2	616.3
52.5°	638.1	561.1	543.6	418.6	559.6
55°	577.0	507.3	469.5	385.2	518.9
57.5°	523.3	437.5	401.2	345.9	510.2
60°	473.8	369.2	341.6	303.8	468.0
62.5°	433.1	318.3	312.5	274.7	424.4
65°	389.5	283.4	282.0	250.0	360.5
67.5°	347.4	260.2	258.7	226.7	274.7
70°	302.3	235.5	232.6	202.0	203.5
72.5°	255.8	207.9	204.9	181.7	168.6
75°	209.3	175.9	174.4	158.4	136.6
77.5°	164.2	139.5	142.4	127.9	100.3
80°	117.7	101.7	104.7	91.6	75.6
82.5°	78.5	66.9	69.8	58.1	50.9
85°	43.6	37.8	39.2	30.5	23.3
87.5°	20.3	17.4	17.4	11.6	7.3
90°	13.2	8.4	7.8	5.4	3.0
92.5°	81.3	57.8	52.7	32.4	12.0
95°	200.0	112.6	103.3	66.0	28.8
97.5°	269.5	123.7	115.5	82.7	49.7
100°	294.7	133.0	125.6	95.7	65.9
102.5°	306.3	142.3	135.4	107.6	79.7
105°	314.8	156.1	150.2	126.6	103.1
107.5°	316.5	176.5	170.9	149.0	127.0
110°	314.1	187.8	182.9	163.0	143.2



TEST NUMBER: P934389

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	314.1	201.6	196.9	178.0	159.1
115°	317.1	222.3	217.9	200.5	183.0
117.5°	323.0	242.3	238.4	222.6	206.7
120°	327.7	254.1	250.3	235.4	220.4
122.5°	334.6	267.8	264.1	249.0	234.0
125°	343.9	285.5	282.1	268.3	254.7
127.5°	353.2	302.6	299.1	285.3	271.4
130°	360.0	314.0	310.3	295.4	280.4
132.5°	365.5	323.3	319.6	304.7	289.7
135°	371.5	334.0	330.6	317.1	303.5
137.5°	380.4	347.8	344.4	331.0	317.5
140°	386.0	357.1	354.0	341.7	329.3
142.5°	390.5	364.0	361.0	349.6	338.2
145°	396.6	374.5	372.0	362.0	352.0
147.5°	405.3	387.7	385.3	375.5	365.8
150°	410.0	394.6	392.3	383.6	374.8
152.5°	412.9	399.0	397.4	390.7	384.0
155°	419.5	408.9	407.7	402.8	397.9
157.5°	426.1	418.8	417.6	412.8	408.0
160°	429.1	423.3	422.3	418.6	414.9
162.5°	432.3	428.1	427.4	424.6	421.8
165°	436.9	435.0	434.3	431.8	429.3
167.5°	440.5	438.9	438.6	437.3	436.1
170°	443.5	443.4	443.1	441.9	440.7
172.5°	443.7	443.7	443.6	443.4	443.1
175°	445.5	446.4	446.4	446.4	446.4
177.5°	445.7	446.4	446.4	446.4	446.4
180°	446.4	446.4	446.4	446.4	446.4

TEST NUMBER: P934389

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-W2A-W-6-3500K

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	13.33	14.27	14.21	15.17	16.33	16.15	17.09	17.04	18.00	19.15
	3H	13.81	14.65	14.71	15.57	16.75	17.50	18.34	18.40	19.26	20.44
	4H	14.01	14.80	14.92	15.72	16.91	17.95	18.74	18.86	19.66	20.85
	6H	14.13	14.86	15.05	15.79	16.99	18.24	18.97	19.16	19.90	21.10
	8H	14.13	14.83	15.06	15.77	16.97	18.31	19.01	19.24	19.95	21.15
	12H	14.11	14.77	15.04	15.71	16.93	18.35	19.02	19.29	19.95	21.18
4H	2H	14.37	15.16	15.29	16.08	17.27	16.57	17.37	17.49	18.29	19.48
	3H	15.40	16.06	16.33	17.02	18.22	18.08	18.74	19.01	19.70	20.90
	4H	15.68	16.29	16.62	17.23	18.46	18.61	19.22	19.55	20.16	21.39
	6H	15.81	16.33	16.77	17.30	18.53	18.98	19.50	19.93	20.47	21.70
	8H	15.82	16.31	16.77	17.27	18.51	19.09	19.57	20.04	20.54	21.78
	12H	15.79	16.23	16.76	17.21	18.46	19.15	19.59	20.12	20.57	21.82
8H	4H	16.14	16.63	17.10	17.59	18.83	18.74	19.23	19.70	20.19	21.44
	6H	16.41	16.81	17.39	17.81	19.05	19.18	19.58	20.16	20.59	21.83
	8H	16.45	16.80	17.44	17.80	19.06	19.33	19.69	20.32	20.68	21.94
	12H	16.44	16.75	17.43	17.74	19.04	19.43	19.75	20.43	20.73	22.04
12H	4H	16.15	16.59	17.13	17.57	18.82	18.71	19.15	19.69	20.13	21.38
	6H	16.47	16.82	17.46	17.82	19.08	19.18	19.53	20.17	20.53	21.79
	8H	16.54	16.85	17.53	17.84	19.14	19.34	19.66	20.34	20.64	21.95