

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: P935384

Luminaire Tested: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935384
REPORT IS A COMBINATION OF REPORTS P933750 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

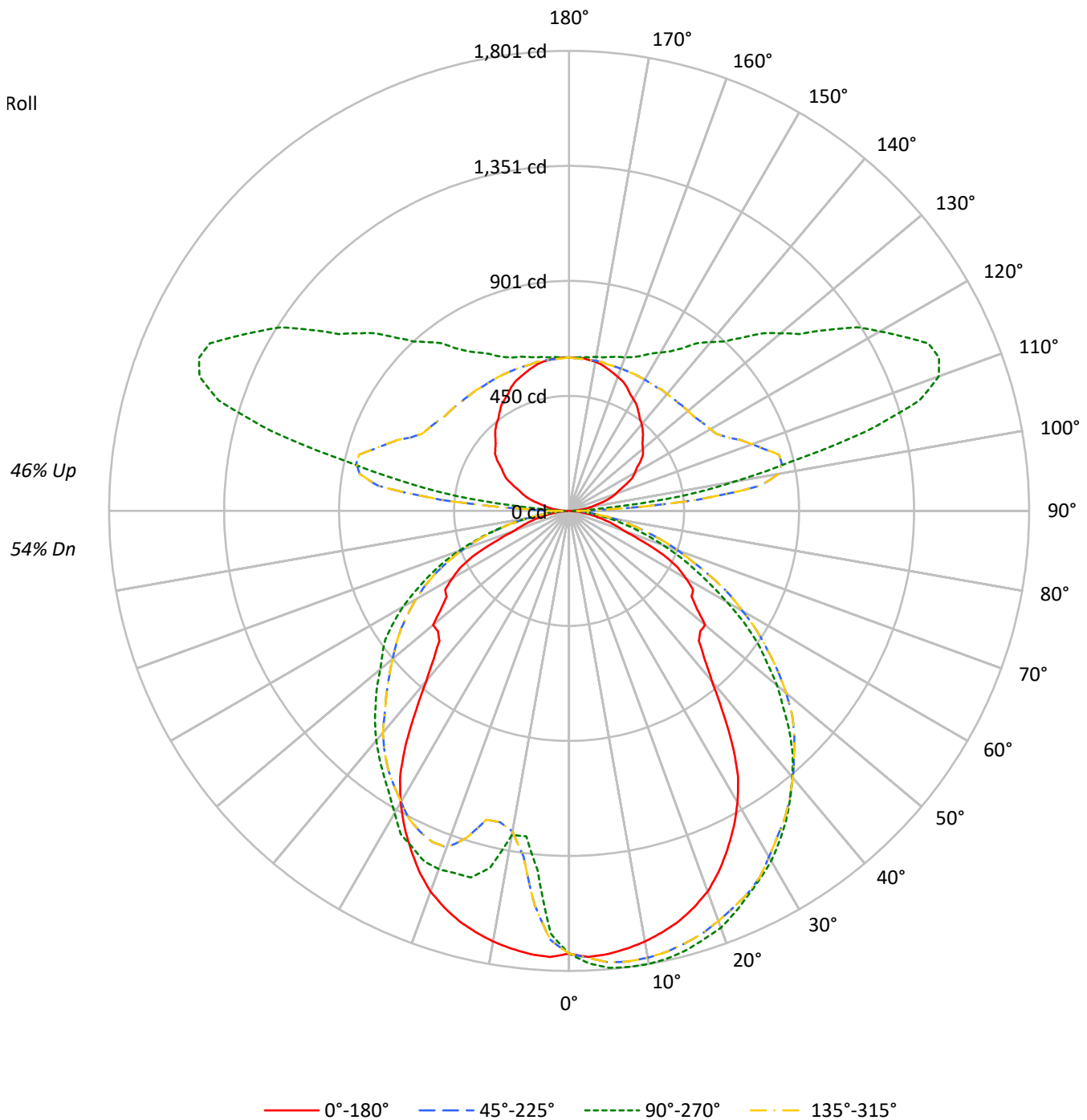
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8389.6 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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





TEST NUMBER: P935384

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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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59	54
1	99	94	90	87	91	88	84	81	75	73	70	63	62	60	53	51	50	45
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	46	44	42	38
3	82	72	65	59	76	67	61	56	58	53	49	49	46	42	41	38	36	32
4	75	64	56	50	69	60	53	47	51	46	42	44	40	36	37	34	31	28
5	69	57	49	43	64	53	46	41	46	40	36	39	35	31	33	30	27	24
6	63	51	43	37	59	48	41	35	41	36	31	35	31	28	30	26	24	21
7	59	46	38	33	54	43	36	31	38	32	28	32	28	24	27	24	21	19
8	54	42	34	29	50	39	32	27	34	29	24	29	25	22	25	22	19	17
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17	15
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16084	16084	16084	16084
5°	16186	16237	16186	12766
10°	16060	15994	16060	11434
15°	15868	15647	15868	13065
20°	15518	15236	15518	13093
25°	14820	14637	14820	12815
30°	13925	14141	13925	12206
35°	12397	13512	12397	11537
40°	10311	12771	10311	11030
45°	9195	11906	9195	10449
50°	9747	10872	9747	9866
55°	9146	9759	9146	9528
60°	9392	8289	9392	8727
65°	8475	6851	8475	7659
70°	5829	5461	5829	6420
75°	5057	4037	5057	4833
80°	3992	2669	3992	2905
85°	2178	1413	2178	1200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 14120 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	1.9
10°-20°	444.2	5.3
20°-30°	686.7	8.2
30°-40°	819.8	9.8
40°-50°	824.6	9.8
50°-60°	717.5	8.6
60°-70°	508.7	6.1
70°-80°	269.2	3.2
80°-90°	69.3	0.8
90°-100°	292.7	3.5
100°-110°	769.6	9.2
110°-120°	798.0	9.5
120°-130°	640.1	7.6
130°-140°	502.2	6.0
140°-150°	385.5	4.6
150°-160°	277.6	3.3
160°-170°	169.9	2.0
170°-180°	57.4	0.7
0°-30°	1287.4	15.3
0°-40°	2107.2	25.1
0°-60°	3649.3	43.5
0°-90°	4496.5	53.6
90°-120°	1860.4	22.2
90°-150°	3388.2	40.4
90°-180°	3893.0	46.4
0°-180°	8389.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1733	1733	1733	1733	1733	
5°	1742	1796	1742	1412	1742	165
15°	1663	1779	1663	1486	1663	468
25°	1464	1660	1464	1453	1464	672
35°	1114	1481	1114	1264	1114	689
45°	718	1220	718	1071	718	575
55°	586	900	586	879	586	538
65°	407	543	407	607	407	389
75°	154	258	154	308	154	162
85°	26	66	26	56	26	35
90°	4	15	4	15	4	4
95°	39	177	39	177	39	43
105°	139	1205	139	1205	139	147
115°	246	1552	246	1552	246	243
125°	343	1236	343	1236	343	304
135°	408	959	408	959	408	316
145°	474	778	474	778	474	297
155°	535	670	535	670	535	246
165°	578	624	578	624	578	163
175°	601	605	601	605	601	57
180°	601	601	601	601	601	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1748.1	1748.1	1758.0	1761.3	1761.3	1756.3	1751.4	1756.3	1771.0	1776.0	1774.3
5°	1741.5	1754.7	1772.7	1776.0	1779.3	1777.6	1774.3	1777.6	1794.0	1797.3	1798.9
7.5°	1728.4	1753.0	1776.0	1780.9	1785.8	1780.9	1779.3	1782.6	1798.9	1802.2	1802.2
10°	1712.0	1746.4	1772.7	1776.0	1780.9	1776.0	1776.0	1782.6	1798.9	1802.2	1803.9
12.5°	1689.1	1736.6	1761.3	1764.5	1771.0	1769.4	1767.7	1774.3	1790.7	1794.0	1794.0
15°	1662.8	1718.6	1741.5	1744.8	1756.3	1753.0	1753.0	1759.6	1777.6	1782.6	1780.9
17.5°	1626.8	1695.7	1721.8	1726.8	1735.0	1733.3	1735.0	1741.5	1758.0	1761.3	1762.8
20°	1585.8	1664.5	1695.7	1700.5	1708.7	1708.7	1708.7	1717.0	1733.3	1739.9	1739.9
22.5°	1530.0	1631.7	1664.5	1667.7	1677.5	1677.5	1680.8	1692.4	1707.1	1708.7	1708.7
25°	1464.4	1595.6	1623.5	1633.3	1643.1	1648.1	1653.0	1659.5	1664.5	1662.8	1664.5
27.5°	1395.6	1549.6	1585.8	1592.3	1605.4	1610.4	1616.9	1618.5	1620.2	1625.1	1621.8
30°	1318.4	1485.7	1539.8	1546.4	1567.7	1570.9	1564.5	1567.7	1575.9	1579.2	1582.5
32.5°	1231.5	1390.6	1492.3	1507.0	1526.8	1516.9	1515.2	1520.2	1533.2	1533.2	1536.5
35°	1113.5	1316.8	1448.0	1461.2	1475.9	1464.4	1470.9	1472.6	1480.8	1485.7	1484.1
37.5°	983.9	1252.8	1402.0	1411.9	1423.4	1408.6	1418.5	1423.4	1430.0	1426.7	1426.7
40°	869.1	1152.8	1348.0	1354.6	1364.4	1352.9	1362.7	1366.0	1369.3	1366.0	1364.4
42.5°	783.8	1042.9	1290.6	1298.8	1292.2	1300.4	1303.7	1310.3	1305.3	1298.8	1298.8
45°	718.2	1013.5	1228.2	1238.1	1228.2	1241.4	1246.3	1246.3	1231.5	1228.2	1226.7
47.5°	696.9	954.4	1165.9	1165.9	1161.1	1177.4	1185.6	1174.1	1159.4	1154.5	1154.5
50°	695.3	888.8	1080.6	1074.1	1097.1	1116.8	1108.5	1097.1	1085.6	1067.5	1067.5
52.5°	631.3	808.4	970.8	995.4	1031.5	1042.9	1029.9	1018.3	998.7	990.5	983.9
55°	585.5	724.8	870.7	920.0	957.7	972.4	947.9	936.3	906.9	901.9	898.7
57.5°	575.6	603.5	779.0	841.3	887.1	885.6	870.7	849.4	824.8	820.0	818.3
60°	528.0	436.2	680.5	754.4	801.8	797.0	783.8	764.2	741.2	737.9	734.7
62.5°	478.9	316.5	569.0	652.6	719.9	718.2	706.8	677.2	660.9	652.6	646.1
65°	406.7	265.7	405.0	542.8	639.5	642.8	618.2	596.9	578.9	569.0	567.3
67.5°	309.9	216.5	273.8	452.6	562.5	559.2	528.0	518.2	495.3	490.3	480.5
70°	229.6	144.3	190.2	367.3	487.0	478.9	454.3	442.7	421.4	410.0	403.4
72.5°	190.2	116.5	139.3	285.4	410.0	400.1	378.8	365.7	347.7	337.8	331.2
75°	154.2	123.0	106.6	211.5	332.9	326.4	306.7	293.5	278.8	265.7	267.3
77.5°	113.2	114.8	85.3	155.8	264.1	254.2	242.7	226.3	219.8	206.6	206.6
80°	85.3	90.2	64.0	106.6	190.2	190.2	180.4	168.9	157.5	150.9	150.9
82.5°	57.4	57.4	47.6	67.2	129.6	124.6	118.0	114.8	108.2	104.9	104.9
85°	26.3	32.8	29.6	41.0	70.5	73.8	73.8	70.5	68.9	65.6	67.2
87.5°	8.2	14.7	18.0	23.0	36.0	37.7	39.3	39.3	39.3	41.0	41.0
90°	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4	15.3	15.3
92.5°	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5	76.6	73.5
95°	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4	260.0	250.8
97.5°	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6	600.1	582.6
100°	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0	842.7	821.8
102.5°	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4	1049.9	1032.0
105°	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8	1291.8	1282.2
107.5°	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5	1417.6	1419.9
110°	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6	1449.7	1459.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6	1429.2	1444.6
115°	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5	1359.5	1380.8
117.5°	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2	1263.2	1286.8
120°	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9	1198.3	1221.3
122.5°	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5	1133.3	1156.0
125°	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9	1047.5	1068.4
127.5°	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2	978.6	996.2
130°	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2	935.1	951.4
132.5°	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4	898.0	912.6
135°	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9	845.5	858.1
137.5°	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8	806.9	817.2
140°	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2	775.9	785.5
142.5°	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7	754.1	762.4
145°	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6	721.4	727.7
147.5°	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4	694.1	699.3
150°	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8	678.3	682.5
152.5°	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5	665.8	669.0
155°	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6	650.9	653.0
157.5°	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0	638.0	639.4
160°	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7	631.6	632.5
162.5°	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6	625.5	626.3
165°	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5	616.3	617.2
167.5°	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1	612.2	612.6
170°	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1	612.2	612.2
172.5°	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9	609.0	608.7
175°	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0	604.6	604.6
177.5°	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7	603.8	603.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1777.6	1772.7	1777.6	1774.3	1776.0	1771.0	1756.3	1751.4	1756.3	1761.3	1761.3
5°	1798.9	1795.7	1798.9	1798.9	1797.3	1794.0	1777.6	1774.3	1777.6	1779.3	1776.0
7.5°	1805.4	1800.6	1805.4	1802.2	1802.2	1798.9	1782.6	1779.3	1780.9	1785.8	1780.9
10°	1805.4	1800.6	1805.4	1803.9	1802.2	1798.9	1782.6	1776.0	1776.0	1780.9	1776.0
12.5°	1797.3	1794.0	1797.3	1794.0	1794.0	1790.7	1774.3	1767.7	1769.4	1771.0	1764.5
15°	1784.1	1779.3	1784.1	1780.9	1782.6	1777.6	1759.6	1753.0	1753.0	1756.3	1744.8
17.5°	1764.5	1758.0	1764.5	1762.8	1761.3	1758.0	1741.5	1735.0	1733.3	1735.0	1726.8
20°	1741.5	1736.6	1741.5	1739.9	1739.9	1733.3	1717.0	1708.7	1708.7	1708.7	1700.5
22.5°	1705.4	1700.5	1705.4	1708.7	1708.7	1707.1	1692.4	1680.8	1677.5	1677.5	1667.7
25°	1664.5	1659.5	1664.5	1664.5	1662.8	1664.5	1659.5	1653.0	1648.1	1643.1	1633.3
27.5°	1625.1	1621.8	1625.1	1621.8	1625.1	1620.2	1618.5	1616.9	1610.4	1605.4	1592.3
30°	1585.8	1582.5	1585.8	1582.5	1579.2	1575.9	1567.7	1564.5	1570.9	1567.7	1546.4
32.5°	1536.5	1533.2	1536.5	1536.5	1533.2	1533.2	1520.2	1515.2	1516.9	1526.8	1507.0
35°	1485.7	1480.8	1485.7	1484.1	1485.7	1480.8	1472.6	1470.9	1464.4	1475.9	1461.2
37.5°	1426.7	1421.7	1426.7	1426.7	1426.7	1430.0	1423.4	1418.5	1408.6	1423.4	1411.9
40°	1366.0	1359.4	1366.0	1364.4	1366.0	1369.3	1366.0	1362.7	1352.9	1364.4	1354.6
42.5°	1297.1	1295.5	1297.1	1298.8	1298.8	1305.3	1310.3	1303.7	1300.4	1292.2	1298.8
45°	1223.4	1220.1	1223.4	1226.7	1228.2	1231.5	1246.3	1246.3	1241.4	1228.2	1238.1
47.5°	1144.6	1136.4	1144.6	1154.5	1154.5	1159.4	1174.1	1185.6	1177.4	1161.1	1165.9
50°	1061.0	1062.6	1061.0	1067.5	1067.5	1085.6	1097.1	1108.5	1116.8	1097.1	1074.1
52.5°	979.0	977.3	979.0	983.9	990.5	998.7	1018.3	1029.9	1042.9	1031.5	995.4
55°	897.0	900.3	897.0	898.7	901.9	906.9	936.3	947.9	972.4	957.7	920.0
57.5°	815.0	810.1	815.0	818.3	820.0	824.8	849.4	870.7	885.6	887.1	841.3
60°	719.9	713.4	719.9	734.7	737.9	741.2	764.2	783.8	797.0	801.8	754.4
62.5°	636.2	624.8	636.2	646.1	652.6	660.9	677.2	706.8	718.2	719.9	652.6
65°	547.7	542.8	547.7	567.3	569.0	578.9	596.9	618.2	642.8	639.5	542.8
67.5°	467.3	467.3	467.3	480.5	490.3	495.3	518.2	528.0	559.2	562.5	452.6
70°	393.6	392.0	393.6	403.4	410.0	421.4	442.7	454.3	478.9	487.0	367.3
72.5°	323.1	321.4	323.1	331.2	337.8	347.7	365.7	378.8	400.1	410.0	285.4
75°	260.8	257.5	260.8	267.3	265.7	278.8	293.5	306.7	326.4	332.9	211.5
77.5°	200.1	200.1	200.1	206.6	206.6	219.8	226.3	242.7	254.2	264.1	155.8
80°	149.2	147.6	149.2	150.9	150.9	157.5	168.9	180.4	190.2	190.2	106.6
82.5°	104.9	101.6	104.9	104.9	104.9	108.2	114.8	118.0	124.6	129.6	67.2
85°	65.6	65.6	65.6	67.2	65.6	68.9	70.5	73.8	73.8	70.5	41.0
87.5°	42.6	41.0	42.6	41.0	41.0	39.3	39.3	39.3	37.7	36.0	23.0
90°	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4	17.7	11.2
92.5°	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5	109.4	77.8
95°	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8	269.1	151.6
97.5°	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8	362.5	166.5
100°	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5	396.5	179.0
102.5°	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2	412.1	191.5
105°	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4	423.6	210.0
107.5°	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8	425.8	237.4
110°	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9	422.5	252.7



TEST NUMBER: P935384

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5	422.7	271.2
115°	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6	426.6	299.0
117.5°	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1	434.5	326.1
120°	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2	440.9	341.8
122.5°	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1	450.2	360.4
125°	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4	462.7	384.1
127.5°	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0	475.2	407.1
130°	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0	484.3	422.4
132.5°	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4	491.7	434.9
135°	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0	499.8	449.4
137.5°	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5	511.8	467.9
140°	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0	519.3	480.4
142.5°	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1	525.5	489.7
145°	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2	533.5	503.8
147.5°	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0	545.4	521.5
150°	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2	551.6	530.8
152.5°	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4	555.5	536.8
155°	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4	564.4	550.2
157.5°	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3	573.3	563.5
160°	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7	577.3	569.5
162.5°	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2	581.6	576.0
165°	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2	587.8	585.2
167.5°	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5	592.6	590.5
170°	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8	596.6	596.5
172.5°	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7	599.3	600.6
177.5°	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4	599.6	600.6
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935384

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1758.0	1748.1	1748.1	1731.7	1725.1	1720.2	1712.0	1687.4	1680.8	1674.3	1684.1
5°	1772.7	1754.7	1741.5	1712.0	1687.4	1677.5	1646.4	1587.4	1548.1	1518.5	1502.1
7.5°	1776.0	1753.0	1728.4	1682.5	1623.5	1597.2	1502.1	1393.9	1364.4	1338.1	1321.7
10°	1772.7	1746.4	1712.0	1643.1	1503.8	1457.9	1362.7	1292.2	1274.1	1269.3	1274.1
12.5°	1761.3	1736.6	1689.1	1574.2	1379.1	1348.0	1292.2	1251.2	1248.0	1256.1	1300.4
15°	1741.5	1718.6	1662.8	1482.5	1310.3	1287.3	1248.0	1233.1	1251.2	1308.6	1441.5
17.5°	1721.8	1695.7	1626.8	1392.3	1257.8	1241.4	1213.5	1243.0	1344.7	1421.7	1466.0
20°	1695.7	1664.5	1585.8	1326.7	1220.1	1205.3	1192.2	1325.0	1402.0	1430.0	1454.6
22.5°	1664.5	1631.7	1530.0	1280.7	1180.7	1169.2	1177.4	1370.9	1402.0	1421.7	1443.0
25°	1623.5	1595.6	1464.4	1244.7	1149.5	1136.4	1167.5	1366.0	1384.0	1389.0	1431.6
27.5°	1585.8	1549.6	1395.6	1211.8	1111.8	1106.9	1175.8	1344.7	1357.8	1362.7	1408.6
30°	1539.8	1485.7	1318.4	1177.4	1072.5	1070.8	1177.4	1318.4	1315.1	1328.3	1374.2
32.5°	1492.3	1390.6	1231.5	1134.8	1034.8	1033.1	1165.9	1279.1	1275.8	1293.8	1328.3
35°	1448.0	1316.8	1113.5	1085.6	987.2	988.9	1138.1	1233.1	1234.8	1251.2	1272.5
37.5°	1402.0	1252.8	983.9	1031.5	941.3	941.3	1100.3	1190.5	1187.2	1192.2	1221.7
40°	1348.0	1152.8	869.1	961.0	898.7	893.7	1054.5	1144.6	1133.1	1131.5	1172.5
42.5°	1290.6	1042.9	783.8	867.4	849.4	842.9	998.7	1088.9	1067.5	1072.5	1124.9
45°	1228.2	1013.5	718.2	733.0	798.6	793.7	938.0	1024.9	1010.2	1023.3	1077.4
47.5°	1165.9	954.4	696.9	608.4	744.5	742.8	870.7	962.6	954.4	967.5	1024.9
50°	1080.6	888.8	695.3	521.5	683.8	690.4	790.4	901.9	901.9	913.4	974.0
52.5°	970.8	808.4	631.3	472.3	613.3	633.0	719.9	849.4	852.7	864.3	918.3
55°	870.7	724.8	585.5	434.6	529.7	572.3	651.1	795.4	801.8	813.4	862.6
57.5°	779.0	603.5	575.6	390.3	452.6	493.6	590.3	742.8	746.1	756.0	803.5
60°	680.5	436.2	528.0	342.7	385.4	416.5	534.6	680.5	692.1	698.6	739.5
62.5°	569.0	316.5	478.9	309.9	352.5	359.1	488.7	621.5	636.2	641.2	665.8
65°	405.0	265.7	406.7	282.1	318.1	319.8	439.4	560.9	573.9	582.2	600.2
67.5°	273.8	216.5	309.9	255.8	291.9	293.5	392.0	490.3	508.3	514.9	526.4
70°	190.2	144.3	229.6	227.9	262.4	265.7	341.1	426.4	442.7	447.7	454.3
72.5°	139.3	116.5	190.2	204.9	231.2	234.5	288.6	354.2	370.6	375.5	378.8
75°	106.6	123.0	154.2	178.8	196.8	198.5	236.1	288.6	300.1	303.4	305.0
77.5°	85.3	114.8	113.2	144.3	160.7	157.5	185.3	223.1	232.9	232.9	232.9
80°	64.0	90.2	85.3	103.3	118.0	114.8	132.8	159.1	162.3	165.6	164.0
82.5°	47.6	57.4	57.4	65.6	78.7	75.4	88.6	103.3	103.3	103.3	106.6
85°	29.6	32.8	26.3	34.4	44.3	42.6	49.2	55.7	57.4	57.4	54.1
87.5°	18.0	14.7	8.2	13.1	19.7	19.7	23.0	24.6	23.0	23.0	23.0
90°	10.5	7.3	4.1	7.3	10.5	11.2	17.7	26.4	30.6	27.2	20.4
92.5°	70.9	43.5	16.1	43.5	70.9	77.8	109.4	151.5	172.5	151.2	108.5
95°	139.1	88.9	38.7	88.9	139.1	151.6	269.1	425.8	504.2	449.9	341.4
97.5°	155.4	111.1	66.9	111.1	155.4	166.5	362.5	623.8	754.5	720.2	651.6
100°	168.9	128.8	88.7	128.8	168.9	179.0	396.5	686.5	831.5	834.0	839.0
102.5°	182.1	144.7	107.2	144.7	182.1	191.5	412.1	706.2	853.3	897.0	984.4
105°	202.0	170.4	138.7	170.4	202.0	210.0	423.6	708.4	850.9	948.8	1144.8
107.5°	230.0	200.5	170.9	200.5	230.0	237.4	425.8	676.8	802.4	939.2	1212.5
110°	246.0	219.4	192.6	219.4	246.0	252.7	422.5	648.9	762.1	914.9	1220.6



TEST NUMBER: P935384

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	264.8	239.4	214.1	239.4	264.8	271.2	422.7	624.5	725.5	881.9	1194.6
115°	293.1	269.7	246.2	269.7	293.1	299.0	426.6	596.6	681.6	832.3	1133.5
117.5°	320.7	299.4	278.1	299.4	320.7	326.1	434.5	579.1	651.4	787.3	1059.2
120°	336.7	316.7	296.6	316.7	336.7	341.8	440.9	573.2	639.2	763.5	1011.9
122.5°	355.3	335.1	314.8	335.1	355.3	360.4	450.2	570.1	629.9	741.8	965.5
125°	379.5	361.0	342.6	361.0	379.5	384.1	462.7	567.4	619.9	714.9	904.9
127.5°	402.4	383.7	365.1	383.7	402.4	407.1	475.2	566.0	611.4	693.0	856.2
130°	417.3	397.3	377.2	397.3	417.3	422.4	484.3	567.0	608.2	680.9	826.2
132.5°	429.8	409.8	389.7	409.8	429.8	434.9	491.7	567.4	605.3	670.4	800.4
135°	444.9	426.6	408.3	426.6	444.9	449.4	499.8	567.0	600.6	655.0	763.9
137.5°	463.4	445.4	427.2	445.4	463.4	467.9	511.8	570.5	599.7	645.7	737.8
140°	476.3	459.6	442.9	459.6	476.3	480.4	519.3	571.0	596.9	636.6	716.2
142.5°	485.9	470.4	455.0	470.4	485.9	489.7	525.5	573.1	596.9	631.8	701.7
145°	500.4	487.0	473.6	487.0	500.4	503.8	533.5	573.2	592.9	621.5	678.6
147.5°	518.2	505.2	492.2	505.2	518.2	521.5	545.4	577.0	592.9	615.4	660.4
150°	527.8	516.0	504.2	516.0	527.8	530.8	551.6	579.2	592.9	611.9	649.8
152.5°	534.6	525.6	516.7	525.6	534.6	536.8	555.5	580.4	592.9	609.1	641.5
155°	548.6	541.9	535.3	541.9	548.6	550.2	564.4	583.4	592.9	605.8	631.6
157.5°	561.8	555.4	548.9	555.4	561.8	563.5	573.3	586.3	592.9	602.9	623.0
160°	568.2	563.3	558.2	563.3	568.2	569.5	577.3	587.7	592.9	601.6	618.7
162.5°	575.0	571.2	567.4	571.2	575.0	576.0	581.6	589.2	592.9	600.2	614.6
165°	584.3	580.9	577.5	580.9	584.3	585.2	587.8	591.2	592.9	598.2	608.5
167.5°	590.1	588.5	586.8	588.5	590.1	590.5	592.6	595.5	596.9	600.3	607.1
170°	596.1	594.5	592.9	594.5	596.1	596.5	596.6	596.8	596.9	600.3	607.1
172.5°	596.8	596.5	596.1	596.5	596.8	596.9	596.9	596.9	596.9	599.6	604.9
175°	600.6	600.6	600.6	600.6	600.6	600.6	599.3	597.7	596.9	598.6	602.0
177.5°	600.6	600.6	600.6	600.6	600.6	600.6	599.6	598.4	597.7	599.0	601.7
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935384

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1672.7	1667.7	1674.3	1656.2	1674.3	1667.7	1672.7	1684.1	1674.3	1680.8	1687.4
5°	1467.6	1459.5	1433.2	1411.9	1433.2	1459.5	1467.6	1502.1	1518.5	1548.1	1587.4
7.5°	1311.9	1305.3	1298.8	1285.7	1298.8	1305.3	1311.9	1321.7	1338.1	1364.4	1393.9
10°	1277.4	1279.1	1289.0	1287.3	1289.0	1279.1	1277.4	1274.1	1269.3	1274.1	1292.2
12.5°	1366.0	1380.7	1434.9	1431.6	1434.9	1380.7	1366.0	1300.4	1256.1	1248.0	1251.2
15°	1467.6	1472.6	1484.1	1485.7	1484.1	1472.6	1467.6	1441.5	1308.6	1251.2	1233.1
17.5°	1477.5	1479.2	1487.3	1487.3	1487.3	1479.2	1477.5	1466.0	1421.7	1344.7	1243.0
20°	1469.3	1472.6	1489.0	1492.3	1489.0	1472.6	1469.3	1454.6	1430.0	1402.0	1325.0
22.5°	1466.0	1472.6	1485.7	1484.1	1485.7	1472.6	1466.0	1443.0	1421.7	1402.0	1370.9
25°	1449.6	1449.6	1451.3	1452.9	1451.3	1449.6	1449.6	1431.6	1389.0	1384.0	1366.0
27.5°	1415.2	1418.5	1428.3	1426.7	1428.3	1418.5	1415.2	1408.6	1362.7	1357.8	1344.7
30°	1384.0	1380.7	1372.6	1366.0	1372.6	1380.7	1384.0	1374.2	1328.3	1315.1	1318.4
32.5°	1331.6	1323.4	1315.1	1310.3	1315.1	1323.4	1331.6	1328.3	1293.8	1275.8	1279.1
35°	1269.3	1270.8	1269.3	1264.4	1269.3	1270.8	1269.3	1272.5	1251.2	1234.8	1233.1
37.5°	1225.0	1228.2	1226.7	1220.1	1226.7	1228.2	1225.0	1221.7	1192.2	1187.2	1190.5
40°	1179.1	1180.7	1179.1	1174.1	1179.1	1180.7	1179.1	1172.5	1131.5	1133.1	1144.6
42.5°	1134.8	1133.1	1128.2	1124.9	1128.2	1133.1	1134.8	1124.9	1072.5	1067.5	1088.9
45°	1083.9	1085.6	1075.8	1070.8	1075.8	1085.6	1083.9	1077.4	1023.3	1010.2	1024.9
47.5°	1033.1	1033.1	1024.9	1020.0	1024.9	1033.1	1033.1	1024.9	967.5	954.4	962.6
50°	979.0	977.3	965.9	964.3	965.9	977.3	979.0	974.0	913.4	901.9	901.9
52.5°	916.7	916.7	918.3	921.6	918.3	916.7	916.7	918.3	864.3	852.7	849.4
55°	862.6	864.3	875.7	879.0	875.7	864.3	862.6	862.6	813.4	801.8	795.4
57.5°	806.8	806.8	815.0	815.0	815.0	806.8	806.8	803.5	756.0	746.1	742.8
60°	742.8	746.1	752.7	751.1	752.7	746.1	742.8	739.5	698.6	692.1	680.5
62.5°	675.6	678.9	680.5	677.2	680.5	678.9	675.6	665.8	641.2	636.2	621.5
65°	605.1	608.4	610.0	606.8	610.0	608.4	605.1	600.2	582.2	573.9	560.9
67.5°	532.9	531.3	529.7	536.2	529.7	531.3	532.9	526.4	514.9	508.3	490.3
70°	459.1	459.1	457.6	460.8	457.6	459.1	459.1	454.3	447.7	442.7	426.4
72.5°	380.4	378.8	385.4	380.4	385.4	378.8	380.4	378.8	375.5	370.6	354.2
75°	303.4	306.7	303.4	308.3	303.4	306.7	303.4	305.0	303.4	300.1	288.6
77.5°	231.2	234.5	231.2	231.2	231.2	234.5	231.2	232.9	232.9	232.9	223.1
80°	164.0	162.3	162.3	160.7	162.3	162.3	164.0	164.0	165.6	162.3	159.1
82.5°	104.9	103.3	103.3	106.6	103.3	103.3	104.9	106.6	103.3	103.3	103.3
85°	57.4	59.0	55.7	55.7	55.7	59.0	57.4	54.1	57.4	57.4	55.7
87.5°	21.3	19.7	19.7	19.7	19.7	19.7	21.3	23.0	23.0	23.0	24.6
90°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	20.4	27.2	30.6	26.4
92.5°	76.6	73.5	61.3	49.1	61.3	73.5	76.6	108.5	151.2	172.5	151.5
95°	260.0	250.8	213.9	176.9	213.9	250.8	260.0	341.4	449.9	504.2	425.8
97.5°	600.1	582.6	512.3	442.2	512.3	582.6	600.1	651.6	720.2	754.5	623.8
100°	842.7	821.8	738.2	654.6	738.2	821.8	842.7	839.0	834.0	831.5	686.5
102.5°	1049.9	1032.0	960.4	888.8	960.4	1032.0	1049.9	984.4	897.0	853.3	706.2
105°	1291.8	1282.2	1243.6	1205.1	1243.6	1282.2	1291.8	1144.8	948.8	850.9	708.4
107.5°	1417.6	1419.9	1429.2	1438.5	1429.2	1419.9	1417.6	1212.5	939.2	802.4	676.8
110°	1449.7	1459.8	1499.9	1540.0	1499.9	1459.8	1449.7	1220.6	914.9	762.1	648.9



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1429.2	1444.6	1506.2	1567.8	1506.2	1444.6	1429.2	1194.6	881.9	725.5	624.5
115°	1359.5	1380.8	1466.3	1551.8	1466.3	1380.8	1359.5	1133.5	832.3	681.6	596.6
117.5°	1263.2	1286.8	1381.6	1476.4	1381.6	1286.8	1263.2	1059.2	787.3	651.4	579.1
120°	1198.3	1221.3	1313.4	1405.4	1313.4	1221.3	1198.3	1011.9	763.5	639.2	573.2
122.5°	1133.3	1156.0	1246.9	1337.7	1246.9	1156.0	1133.3	965.5	741.8	629.9	570.1
125°	1047.5	1068.4	1152.0	1235.8	1152.0	1068.4	1047.5	904.9	714.9	619.9	567.4
127.5°	978.6	996.2	1066.9	1137.4	1066.9	996.2	978.6	856.2	693.0	611.4	566.0
130°	935.1	951.4	1016.6	1081.8	1016.6	951.4	935.1	826.2	680.9	608.2	567.0
132.5°	898.0	912.6	970.9	1029.4	970.9	912.6	898.0	800.4	670.4	605.3	567.4
135°	845.5	858.1	908.4	958.8	908.4	858.1	845.5	763.9	655.0	600.6	567.0
137.5°	806.9	817.2	858.4	899.6	858.4	817.2	806.9	737.8	645.7	599.7	570.5
140°	775.9	785.5	824.0	862.5	824.0	785.5	775.9	716.2	636.6	596.9	571.0
142.5°	754.1	762.4	795.5	828.7	795.5	762.4	754.1	701.7	631.8	596.9	573.1
145°	721.4	727.7	752.8	777.9	752.8	727.7	721.4	678.6	621.5	592.9	573.2
147.5°	694.1	699.3	720.1	740.8	720.1	699.3	694.1	660.4	615.4	592.9	577.0
150°	678.3	682.5	699.3	716.2	699.3	682.5	678.3	649.8	611.9	592.9	579.2
152.5°	665.8	669.0	681.7	694.5	681.7	669.0	665.8	641.5	609.1	592.9	580.4
155°	650.9	653.0	661.4	669.9	661.4	653.0	650.9	631.6	605.8	592.9	583.4
157.5°	638.0	639.4	645.5	651.4	645.5	639.4	638.0	623.0	602.9	592.9	586.3
160°	631.6	632.5	635.9	639.2	635.9	632.5	631.6	618.7	601.6	592.9	587.7
162.5°	625.5	626.3	629.6	632.8	629.6	626.3	625.5	614.6	600.2	592.9	589.2
165°	616.3	617.2	620.5	623.9	620.5	617.2	616.3	608.5	598.2	592.9	591.2
167.5°	612.2	612.6	614.0	615.4	614.0	612.6	612.2	607.1	600.3	596.9	595.5
170°	612.2	612.2	612.2	612.2	612.2	612.2	612.2	607.1	600.3	596.9	596.8
172.5°	609.0	608.7	607.5	606.2	607.5	608.7	609.0	604.9	599.6	596.9	596.9
175°	604.6	604.6	604.6	604.6	604.6	604.6	604.6	602.0	598.6	596.9	597.7
177.5°	603.8	603.4	602.0	600.6	602.0	603.4	603.8	601.7	599.0	597.7	598.4
180°	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6	600.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1733.3	1733.3	1733.3	1733.3	1733.3
2.5°	1712.0	1720.2	1725.1	1731.7	1748.1
5°	1646.4	1677.5	1687.4	1712.0	1741.5
7.5°	1502.1	1597.2	1623.5	1682.5	1728.4
10°	1362.7	1457.9	1503.8	1643.1	1712.0
12.5°	1292.2	1348.0	1379.1	1574.2	1689.1
15°	1248.0	1287.3	1310.3	1482.5	1662.8
17.5°	1213.5	1241.4	1257.8	1392.3	1626.8
20°	1192.2	1205.3	1220.1	1326.7	1585.8
22.5°	1177.4	1169.2	1180.7	1280.7	1530.0
25°	1167.5	1136.4	1149.5	1244.7	1464.4
27.5°	1175.8	1106.9	1111.8	1211.8	1395.6
30°	1177.4	1070.8	1072.5	1177.4	1318.4
32.5°	1165.9	1033.1	1034.8	1134.8	1231.5
35°	1138.1	988.9	987.2	1085.6	1113.5
37.5°	1100.3	941.3	941.3	1031.5	983.9
40°	1054.5	893.7	898.7	961.0	869.1
42.5°	998.7	842.9	849.4	867.4	783.8
45°	938.0	793.7	798.6	733.0	718.2
47.5°	870.7	742.8	744.5	608.4	696.9
50°	790.4	690.4	683.8	521.5	695.3
52.5°	719.9	633.0	613.3	472.3	631.3
55°	651.1	572.3	529.7	434.6	585.5
57.5°	590.3	493.6	452.6	390.3	575.6
60°	534.6	416.5	385.4	342.7	528.0
62.5°	488.7	359.1	352.5	309.9	478.9
65°	439.4	319.8	318.1	282.1	406.7
67.5°	392.0	293.5	291.9	255.8	309.9
70°	341.1	265.7	262.4	227.9	229.6
72.5°	288.6	234.5	231.2	204.9	190.2
75°	236.1	198.5	196.8	178.8	154.2
77.5°	185.3	157.5	160.7	144.3	113.2
80°	132.8	114.8	118.0	103.3	85.3
82.5°	88.6	75.4	78.7	65.6	57.4
85°	49.2	42.6	44.3	34.4	26.3
87.5°	23.0	19.7	19.7	13.1	8.2
90°	17.7	11.2	10.5	7.3	4.1
92.5°	109.4	77.8	70.9	43.5	16.1
95°	269.1	151.6	139.1	88.9	38.7
97.5°	362.5	166.5	155.4	111.1	66.9
100°	396.5	179.0	168.9	128.8	88.7
102.5°	412.1	191.5	182.1	144.7	107.2
105°	423.6	210.0	202.0	170.4	138.7
107.5°	425.8	237.4	230.0	200.5	170.9
110°	422.5	252.7	246.0	219.4	192.6



TEST NUMBER: P935384

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	422.7	271.2	264.8	239.4	214.1
115°	426.6	299.0	293.1	269.7	246.2
117.5°	434.5	326.1	320.7	299.4	278.1
120°	440.9	341.8	336.7	316.7	296.6
122.5°	450.2	360.4	355.3	335.1	314.8
125°	462.7	384.1	379.5	361.0	342.6
127.5°	475.2	407.1	402.4	383.7	365.1
130°	484.3	422.4	417.3	397.3	377.2
132.5°	491.7	434.9	429.8	409.8	389.7
135°	499.8	449.4	444.9	426.6	408.3
137.5°	511.8	467.9	463.4	445.4	427.2
140°	519.3	480.4	476.3	459.6	442.9
142.5°	525.5	489.7	485.9	470.4	455.0
145°	533.5	503.8	500.4	487.0	473.6
147.5°	545.4	521.5	518.2	505.2	492.2
150°	551.6	530.8	527.8	516.0	504.2
152.5°	555.5	536.8	534.6	525.6	516.7
155°	564.4	550.2	548.6	541.9	535.3
157.5°	573.3	563.5	561.8	555.4	548.9
160°	577.3	569.5	568.2	563.3	558.2
162.5°	581.6	576.0	575.0	571.2	567.4
165°	587.8	585.2	584.3	580.9	577.5
167.5°	592.6	590.5	590.1	588.5	586.8
170°	596.6	596.5	596.1	594.5	592.9
172.5°	596.9	596.9	596.8	596.5	596.1
175°	599.3	600.6	600.6	600.6	600.6
177.5°	599.6	600.6	600.6	600.6	600.6
180°	600.6	600.6	600.6	600.6	600.6



TEST NUMBER: P935384
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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	14.77	15.67	15.70	16.61	17.83	17.57	18.46	18.49	19.41	20.63
	3H	15.25	16.05	16.19	17.01	18.25	18.91	19.71	19.84	20.66	21.90
	4H	15.44	16.20	16.40	17.16	18.41	19.35	20.10	20.30	21.06	22.31
	6H	15.57	16.26	16.53	17.23	18.49	19.62	20.32	20.59	21.29	22.55
	8H	15.57	16.23	16.54	17.21	18.47	19.70	20.36	20.67	21.34	22.60
	12H	15.54	16.17	16.51	17.15	18.43	19.73	20.36	20.71	21.34	22.63
4H	2H	15.80	16.56	16.76	17.52	18.77	17.98	18.74	18.94	19.70	20.95
	3H	16.83	17.46	17.80	18.45	19.71	19.48	20.11	20.45	21.10	22.37
	4H	17.11	17.68	18.08	18.67	19.96	20.01	20.58	20.98	21.56	22.85
	6H	17.24	17.73	18.22	18.74	20.03	20.36	20.86	21.35	21.87	23.16
	8H	17.24	17.71	18.23	18.70	20.01	20.47	20.93	21.46	21.93	23.23
	12H	17.21	17.63	18.22	18.64	19.95	20.52	20.94	21.53	21.95	23.26
8H	4H	17.56	18.02	18.55	19.02	20.32	20.13	20.60	21.12	21.60	22.90
	6H	17.82	18.21	18.84	19.25	20.55	20.56	20.95	21.58	21.99	23.29
	8H	17.86	18.20	18.89	19.23	20.55	20.71	21.05	21.74	22.08	23.40
	12H	17.85	18.15	18.88	19.17	20.53	20.80	21.10	21.83	22.12	23.49
12H	4H	17.57	17.98	18.58	19.00	20.31	20.10	20.52	21.11	21.53	22.84
	6H	17.88	18.22	18.91	19.25	20.57	20.56	20.90	21.59	21.93	23.25
	8H	17.95	18.25	18.98	19.27	20.63	20.72	21.02	21.75	22.04	23.40