

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: P935385

Luminaire Tested: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935385
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-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

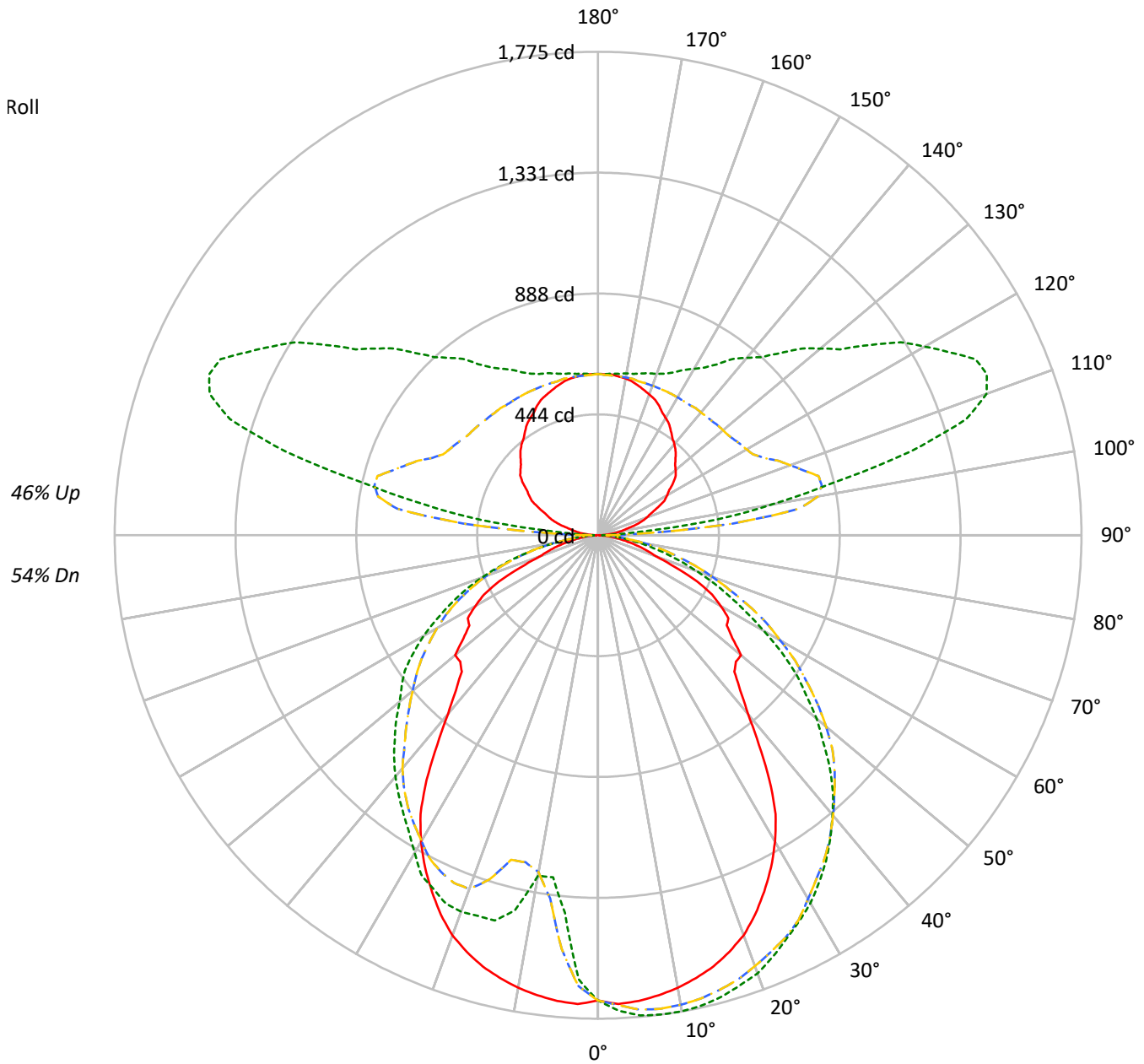
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8268.4 lumens
Efficiency: N/A
Efficacy: 120.2 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



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



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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°	15852	15852	15852	15852
5°	15952	16001	15952	12582
10°	15829	15763	15829	11269
15°	15638	15421	15638	12876
20°	15294	15017	15294	12903
25°	14606	14426	14606	12630
30°	13725	13936	13725	12030
35°	12217	13317	12217	11370
40°	10162	12587	10162	10872
45°	9062	11733	9062	10299
50°	9605	10715	9605	9723
55°	9013	9618	9013	9390
60°	9257	8169	9257	8600
65°	8352	6753	8352	7548
70°	5743	5382	5743	6326
75°	4981	3977	4981	4764
80°	3931	2629	3931	2862
85°	2145	1394	2145	1183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.9
10°-20°	437.8	5.3
20°-30°	676.8	8.2
30°-40°	807.9	9.8
40°-50°	812.7	9.8
50°-60°	707.1	8.6
60°-70°	501.4	6.1
70°-80°	265.3	3.2
80°-90°	68.3	0.8
90°-100°	288.5	3.5
100°-110°	758.5	9.2
110°-120°	786.5	9.5
120°-130°	630.8	7.6
130°-140°	495.0	6.0
140°-150°	379.9	4.6
150°-160°	273.6	3.3
160°-170°	167.4	2.0
170°-180°	56.6	0.7
0°-30°	1268.8	15.3
0°-40°	2076.8	25.1
0°-60°	3596.6	43.5
0°-90°	4431.5	53.6
90°-120°	1833.5	22.2
90°-150°	3339.2	40.4
90°-180°	3837.0	46.4
0°-180°	8268.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1708	1708	1708	1708	1708	
5°	1716	1770	1716	1392	1716	163
15°	1639	1754	1639	1464	1639	461
25°	1443	1636	1443	1432	1443	663
35°	1097	1459	1097	1246	1097	679
45°	708	1202	708	1055	708	567
55°	577	887	577	866	577	530
65°	401	535	401	598	401	383
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	4	15	4	15	4	4
95°	38	174	38	174	38	42
105°	137	1188	137	1188	137	145
115°	243	1529	243	1529	243	240
125°	338	1218	338	1218	338	300
135°	402	945	402	945	402	311
145°	467	767	467	767	467	292
155°	528	660	528	660	528	242
165°	569	615	569	615	569	161
175°	592	596	592	596	592	56
180°	592	592	592	592	592	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1722.8	1722.8	1732.6	1735.8	1735.8	1730.9	1726.1	1730.9	1745.5	1750.3	1748.7
5°	1716.3	1729.3	1747.1	1750.3	1753.6	1751.9	1748.7	1751.9	1768.1	1771.3	1773.0
7.5°	1703.4	1727.7	1750.3	1755.2	1760.0	1755.2	1753.6	1756.8	1773.0	1776.2	1776.2
10°	1687.3	1721.2	1747.1	1750.3	1755.2	1750.3	1750.3	1756.8	1773.0	1776.2	1777.8
12.5°	1664.7	1711.6	1735.8	1739.0	1745.5	1743.8	1742.2	1748.7	1764.8	1768.1	1768.1
15°	1638.8	1693.8	1716.3	1719.6	1730.9	1727.7	1727.7	1734.2	1751.9	1756.8	1755.2
17.5°	1603.3	1671.2	1696.9	1701.8	1709.9	1708.3	1709.9	1716.3	1732.6	1735.8	1737.3
20°	1562.9	1640.4	1671.2	1675.9	1684.0	1684.0	1684.0	1692.2	1708.3	1714.8	1714.8
22.5°	1507.8	1608.1	1640.4	1643.7	1653.3	1653.3	1656.5	1667.9	1682.4	1684.0	1684.0
25°	1443.2	1572.5	1600.0	1609.7	1619.4	1624.3	1629.1	1635.5	1640.4	1638.8	1640.4
27.5°	1375.4	1527.2	1562.9	1569.3	1582.2	1587.1	1593.5	1595.1	1596.8	1601.6	1598.4
30°	1299.4	1464.2	1517.6	1524.1	1545.1	1548.2	1541.8	1545.1	1553.1	1556.4	1559.6
32.5°	1213.7	1370.5	1470.7	1485.2	1504.7	1495.0	1493.3	1498.2	1511.1	1511.1	1514.3
35°	1097.4	1297.7	1427.1	1440.0	1454.6	1443.2	1449.7	1451.3	1459.4	1464.2	1462.7
37.5°	969.7	1234.7	1381.8	1391.5	1402.8	1388.3	1398.0	1402.8	1409.3	1406.0	1406.0
40°	856.5	1136.2	1328.5	1335.0	1344.6	1333.4	1343.0	1346.3	1349.5	1346.3	1344.6
42.5°	772.5	1027.9	1272.0	1280.0	1273.5	1281.6	1284.9	1291.4	1286.5	1280.0	1280.0
45°	707.8	998.8	1210.5	1220.2	1210.5	1223.5	1228.3	1228.3	1213.7	1210.5	1208.9
47.5°	686.8	940.6	1149.1	1149.1	1144.3	1160.4	1168.4	1157.2	1142.7	1137.8	1137.8
50°	685.2	875.9	1065.0	1058.6	1081.3	1100.6	1092.5	1081.3	1069.9	1052.1	1052.1
52.5°	622.2	796.8	956.8	981.0	1016.6	1027.9	1015.0	1003.6	984.2	976.2	969.7
55°	577.0	714.3	858.2	906.7	943.8	958.3	934.2	922.8	893.8	888.9	885.7
57.5°	567.3	594.8	767.7	829.1	874.3	872.8	858.2	837.2	812.9	808.1	806.5
60°	520.4	429.9	670.7	743.5	790.3	785.5	772.5	753.1	730.5	727.2	724.1
62.5°	472.0	311.9	560.8	643.2	709.5	707.8	696.6	667.4	651.3	643.2	636.8
65°	400.8	261.9	399.2	535.0	630.3	633.5	609.3	588.3	570.5	560.8	559.2
67.5°	305.4	213.3	269.9	446.1	554.4	551.1	520.4	510.7	488.1	483.2	473.6
70°	226.2	142.2	187.5	362.0	480.0	472.0	447.7	436.3	415.3	404.1	397.6
72.5°	187.5	114.8	137.3	281.2	404.1	394.3	373.3	360.4	342.7	332.9	326.4
75°	151.9	121.2	105.0	208.5	328.0	321.6	302.3	289.3	274.8	261.9	263.4
77.5°	111.5	113.2	84.0	153.6	260.2	250.5	239.2	223.0	216.6	203.6	203.6
80°	84.0	88.9	63.0	105.0	187.5	187.5	177.8	166.5	155.2	148.7	148.7
82.5°	56.5	56.5	46.9	66.3	127.7	122.8	116.3	113.2	106.7	103.4	103.4
85°	25.9	32.3	29.1	40.4	69.5	72.8	72.8	69.5	67.9	64.7	66.3
87.5°	8.1	14.5	17.8	22.6	35.5	37.1	38.8	38.8	38.8	40.4	40.4
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.8	20.2	15.1	15.1
92.5°	15.9	42.9	69.9	76.7	107.8	149.3	170.0	149.0	107.0	75.4	72.5
95°	38.1	87.6	137.0	149.4	265.2	419.6	496.9	443.4	336.4	256.2	247.2
97.5°	65.9	109.5	153.2	164.1	357.3	614.8	743.6	709.8	642.1	591.4	574.1
100°	87.4	126.9	166.5	176.4	390.8	676.6	819.5	822.0	826.8	830.6	809.9
102.5°	105.6	142.6	179.4	188.7	406.2	696.0	841.0	884.0	970.2	1034.7	1017.1
105°	136.7	167.9	199.1	206.9	417.5	698.2	838.6	935.1	1128.2	1273.1	1263.7
107.5°	168.5	197.6	226.7	234.0	419.6	667.1	790.8	925.6	1195.0	1397.1	1399.4
110°	189.9	216.2	242.5	249.1	416.4	639.6	751.1	901.7	1202.9	1428.8	1438.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.0	236.0	261.0	267.3	416.6	615.5	715.0	869.1	1177.3	1408.5	1423.7
115°	242.7	265.8	288.9	294.7	420.4	588.0	671.7	820.2	1117.2	1339.9	1360.9
117.5°	274.1	295.1	316.1	321.4	428.2	570.7	642.0	775.9	1043.9	1244.9	1268.2
120°	292.3	312.1	331.9	336.8	434.5	564.9	630.0	752.4	997.3	1181.0	1203.7
122.5°	310.3	330.2	350.2	355.2	443.7	561.8	620.8	731.1	951.6	1117.0	1139.3
125°	337.7	355.8	374.0	378.6	456.0	559.2	610.9	704.6	891.9	1032.4	1053.0
127.5°	359.8	378.2	396.6	401.2	468.3	557.8	602.6	683.0	843.8	964.5	981.8
130°	371.8	391.6	411.3	416.3	477.3	558.8	599.5	671.1	814.2	921.6	937.6
132.5°	384.1	403.9	423.6	428.6	484.6	559.2	596.6	660.7	788.8	885.0	899.4
135°	402.4	420.4	438.4	442.9	492.6	558.8	591.9	645.6	752.8	833.3	845.7
137.5°	421.1	438.9	456.7	461.2	504.4	562.2	591.0	636.4	727.1	795.2	805.4
140°	436.5	453.0	469.4	473.5	511.8	562.8	588.3	627.4	705.8	764.7	774.1
142.5°	448.5	463.7	478.8	482.7	517.9	564.8	588.3	622.7	691.5	743.2	751.4
145°	466.7	480.0	493.2	496.5	525.8	564.9	584.4	612.5	668.8	711.0	717.2
147.5°	485.0	497.9	510.7	514.0	537.5	568.7	584.4	606.5	650.8	684.1	689.2
150°	496.9	508.5	520.2	523.1	543.6	570.8	584.4	603.1	640.4	668.5	672.6
152.5°	509.2	518.0	526.9	529.1	547.5	572.0	584.4	600.3	632.2	656.2	659.3
155°	527.5	534.0	540.6	542.2	556.3	575.0	584.4	597.1	622.5	641.5	643.6
157.5°	541.0	547.4	553.7	555.3	565.0	577.9	584.4	594.2	614.0	628.8	630.2
160°	550.2	555.1	560.0	561.3	569.0	579.2	584.4	592.9	609.8	622.5	623.3
162.5°	559.2	563.0	566.7	567.7	573.2	580.6	584.4	591.5	605.8	616.5	617.2
165°	569.2	572.5	575.9	576.7	579.3	582.6	584.4	589.5	599.7	607.4	608.2
167.5°	578.3	580.0	581.6	582.0	584.1	586.8	588.3	591.6	598.3	603.4	603.8
170°	584.4	585.9	587.5	587.9	588.0	588.2	588.3	591.6	598.3	603.4	603.4
172.5°	587.5	587.9	588.2	588.3	588.3	588.3	588.3	591.0	596.2	600.2	599.9
175°	591.9	591.9	591.9	591.9	590.7	589.0	588.3	590.0	593.3	595.8	595.8
177.5°	591.9	591.9	591.9	591.9	591.0	589.7	589.0	590.4	593.1	595.1	594.7
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1751.9	1747.1	1751.9	1748.7	1750.3	1745.5	1730.9	1726.1	1730.9	1735.8	1735.8
5°	1773.0	1769.7	1773.0	1773.0	1771.3	1768.1	1751.9	1748.7	1751.9	1753.6	1750.3
7.5°	1779.4	1774.6	1779.4	1776.2	1776.2	1773.0	1756.8	1753.6	1755.2	1760.0	1755.2
10°	1779.4	1774.6	1779.4	1777.8	1776.2	1773.0	1756.8	1750.3	1750.3	1755.2	1750.3
12.5°	1771.3	1768.1	1771.3	1768.1	1768.1	1764.8	1748.7	1742.2	1743.8	1745.5	1739.0
15°	1758.3	1753.6	1758.3	1755.2	1756.8	1751.9	1734.2	1727.7	1727.7	1730.9	1719.6
17.5°	1739.0	1732.6	1739.0	1737.3	1735.8	1732.6	1716.3	1709.9	1708.3	1709.9	1701.8
20°	1716.3	1711.6	1716.3	1714.8	1714.8	1708.3	1692.2	1684.0	1684.0	1684.0	1675.9
22.5°	1680.8	1675.9	1680.8	1684.0	1684.0	1682.4	1667.9	1656.5	1653.3	1653.3	1643.7
25°	1640.4	1635.5	1640.4	1640.4	1638.8	1640.4	1635.5	1629.1	1624.3	1619.4	1609.7
27.5°	1601.6	1598.4	1601.6	1598.4	1601.6	1596.8	1595.1	1593.5	1587.1	1582.2	1569.3
30°	1562.9	1559.6	1562.9	1559.6	1556.4	1553.1	1545.1	1541.8	1548.2	1545.1	1524.1
32.5°	1514.3	1511.1	1514.3	1514.3	1511.1	1511.1	1498.2	1493.3	1495.0	1504.7	1485.2
35°	1464.2	1459.4	1464.2	1462.7	1464.2	1459.4	1451.3	1449.7	1443.2	1454.6	1440.0
37.5°	1406.0	1401.2	1406.0	1406.0	1406.0	1409.3	1402.8	1398.0	1388.3	1402.8	1391.5
40°	1346.3	1339.8	1346.3	1344.6	1346.3	1349.5	1346.3	1343.0	1333.4	1344.6	1335.0
42.5°	1278.4	1276.7	1278.4	1280.0	1280.0	1286.5	1291.4	1284.9	1281.6	1273.5	1280.0
45°	1205.7	1202.4	1205.7	1208.9	1210.5	1213.7	1228.3	1228.3	1223.5	1210.5	1220.2
47.5°	1128.0	1120.0	1128.0	1137.8	1137.8	1142.7	1157.2	1168.4	1160.4	1144.3	1149.1
50°	1045.6	1047.3	1045.6	1052.1	1052.1	1069.9	1081.3	1092.5	1100.6	1081.3	1058.6
52.5°	964.8	963.2	964.8	969.7	976.2	984.2	1003.6	1015.0	1027.9	1016.6	981.0
55°	884.0	887.3	884.0	885.7	888.9	893.8	922.8	934.2	958.3	943.8	906.7
57.5°	803.3	798.4	803.3	806.5	808.1	812.9	837.2	858.2	872.8	874.3	829.1
60°	709.5	703.1	709.5	724.1	727.2	730.5	753.1	772.5	785.5	790.3	743.5
62.5°	627.1	615.8	627.1	636.8	643.2	651.3	667.4	696.6	707.8	709.5	643.2
65°	539.8	535.0	539.8	559.2	560.8	570.5	588.3	609.3	633.5	630.3	535.0
67.5°	460.6	460.6	460.6	473.6	483.2	488.1	510.7	520.4	551.1	554.4	446.1
70°	387.9	386.3	387.9	397.6	404.1	415.3	436.3	447.7	472.0	480.0	362.0
72.5°	318.4	316.8	318.4	326.4	332.9	342.7	360.4	373.3	394.3	404.1	281.2
75°	257.0	253.7	257.0	263.4	261.9	274.8	289.3	302.3	321.6	328.0	208.5
77.5°	197.2	197.2	197.2	203.6	203.6	216.6	223.0	239.2	250.5	260.2	153.6
80°	147.1	145.4	147.1	148.7	148.7	155.2	166.5	177.8	187.5	187.5	105.0
82.5°	103.4	100.2	103.4	103.4	103.4	106.7	113.2	116.3	122.8	127.7	66.3
85°	64.7	64.7	64.7	66.3	64.7	67.9	69.5	72.8	72.8	69.5	40.4
87.5°	42.0	40.4	42.0	40.4	40.4	38.8	38.8	38.8	37.1	35.5	22.6
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	26.0	17.5	11.1
92.5°	60.5	48.4	60.5	72.5	75.4	107.0	149.0	170.0	149.3	107.8	76.7
95°	210.8	174.4	210.8	247.2	256.2	336.4	443.4	496.9	419.6	265.2	149.4
97.5°	504.9	435.8	504.9	574.1	591.4	642.1	709.8	743.6	614.8	357.3	164.1
100°	727.5	645.1	727.5	809.9	830.6	826.8	822.0	819.5	676.6	390.8	176.4
102.5°	946.5	875.9	946.5	1017.1	1034.7	970.2	884.0	841.0	696.0	406.2	188.7
105°	1225.6	1187.7	1225.6	1263.7	1273.1	1128.2	935.1	838.6	698.2	417.5	206.9
107.5°	1408.5	1417.7	1408.5	1399.4	1397.1	1195.0	925.6	790.8	667.1	419.6	234.0
110°	1478.2	1517.8	1478.2	1438.7	1428.8	1202.9	901.7	751.1	639.6	416.4	249.1



TEST NUMBER: P935385

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1484.5	1545.2	1484.5	1423.7	1408.5	1177.3	869.1	715.0	615.5	416.6	267.3
115°	1445.1	1529.3	1445.1	1360.9	1339.9	1117.2	820.2	671.7	588.0	420.4	294.7
117.5°	1361.6	1455.0	1361.6	1268.2	1244.9	1043.9	775.9	642.0	570.7	428.2	321.4
120°	1294.4	1385.1	1294.4	1203.7	1181.0	997.3	752.4	630.0	564.9	434.5	336.8
122.5°	1228.9	1318.4	1228.9	1139.3	1117.0	951.6	731.1	620.8	561.8	443.7	355.2
125°	1135.4	1217.9	1135.4	1053.0	1032.4	891.9	704.6	610.9	559.2	456.0	378.6
127.5°	1051.5	1121.0	1051.5	981.8	964.5	843.8	683.0	602.6	557.8	468.3	401.2
130°	1001.9	1066.2	1001.9	937.6	921.6	814.2	671.1	599.5	558.8	477.3	416.3
132.5°	956.9	1014.5	956.9	899.4	885.0	788.8	660.7	596.6	559.2	484.6	428.6
135°	895.3	945.0	895.3	845.7	833.3	752.8	645.6	591.9	558.8	492.6	442.9
137.5°	846.0	886.6	846.0	805.4	795.2	727.1	636.4	591.0	562.2	504.4	461.2
140°	812.1	850.0	812.1	774.1	764.7	705.8	627.4	588.3	562.8	511.8	473.5
142.5°	784.1	816.7	784.1	751.4	743.2	691.5	622.7	588.3	564.8	517.9	482.7
145°	741.9	766.7	741.9	717.2	711.0	668.8	612.5	584.4	564.9	525.8	496.5
147.5°	709.7	730.1	709.7	689.2	684.1	650.8	606.5	584.4	568.7	537.5	514.0
150°	689.2	705.8	689.2	672.6	668.5	640.4	603.1	584.4	570.8	543.6	523.1
152.5°	671.8	684.4	671.8	659.3	656.2	632.2	600.3	584.4	572.0	547.5	529.1
155°	651.9	660.2	651.9	643.6	641.5	622.5	597.1	584.4	575.0	556.3	542.2
157.5°	636.1	642.0	636.1	630.2	628.8	614.0	594.2	584.4	577.9	565.0	555.3
160°	626.7	630.0	626.7	623.3	622.5	609.8	592.9	584.4	579.2	569.0	561.3
162.5°	620.5	623.6	620.5	617.2	616.5	605.8	591.5	584.4	580.6	573.2	567.7
165°	611.6	614.9	611.6	608.2	607.4	599.7	589.5	584.4	582.6	579.3	576.7
167.5°	605.1	606.5	605.1	603.8	603.4	598.3	591.6	588.3	586.8	584.1	582.0
170°	603.4	603.4	603.4	603.4	603.4	598.3	591.6	588.3	588.2	588.0	587.9
172.5°	598.7	597.4	598.7	599.9	600.2	596.2	591.0	588.3	588.3	588.3	588.3
175°	595.8	595.8	595.8	595.8	595.8	593.3	590.0	588.3	589.0	590.7	591.9
177.5°	593.3	591.9	593.3	594.7	595.1	593.1	590.4	589.0	589.7	591.0	591.9
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



TEST NUMBER: P935385

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1732.6	1722.8	1722.8	1706.7	1700.2	1695.3	1687.3	1663.0	1656.5	1650.1	1659.8
5°	1747.1	1729.3	1716.3	1687.3	1663.0	1653.3	1622.6	1564.5	1525.7	1496.6	1480.4
7.5°	1750.3	1727.7	1703.4	1658.2	1600.0	1574.1	1480.4	1373.8	1344.6	1318.8	1302.6
10°	1747.1	1721.2	1687.3	1619.4	1482.1	1436.8	1343.0	1273.5	1255.7	1251.0	1255.7
12.5°	1735.8	1711.6	1664.7	1551.5	1359.2	1328.5	1273.5	1233.1	1229.9	1238.0	1281.6
15°	1716.3	1693.8	1638.8	1461.1	1291.4	1268.7	1229.9	1215.3	1233.1	1289.7	1420.7
17.5°	1696.9	1671.2	1603.3	1372.1	1239.6	1223.5	1195.9	1225.1	1325.3	1401.2	1444.8
20°	1671.2	1640.4	1562.9	1307.5	1202.4	1187.9	1174.9	1305.9	1381.8	1409.3	1433.6
22.5°	1640.4	1608.1	1507.8	1262.2	1163.7	1152.3	1160.4	1351.1	1381.8	1401.2	1422.2
25°	1600.0	1572.5	1443.2	1226.7	1132.9	1120.0	1150.7	1346.3	1364.0	1368.9	1410.9
27.5°	1562.9	1527.2	1375.4	1194.3	1095.8	1090.9	1158.8	1325.3	1338.1	1343.0	1388.3
30°	1517.6	1464.2	1299.4	1160.4	1057.0	1055.4	1160.4	1299.4	1296.1	1309.1	1354.4
32.5°	1470.7	1370.5	1213.7	1118.4	1019.8	1018.2	1149.1	1260.6	1257.4	1275.1	1309.1
35°	1427.1	1297.7	1097.4	1069.9	973.0	974.6	1121.6	1215.3	1217.0	1233.1	1254.1
37.5°	1381.8	1234.7	969.7	1016.6	927.7	927.7	1084.4	1173.3	1170.1	1174.9	1204.1
40°	1328.5	1136.2	856.5	947.1	885.7	880.8	1039.2	1128.0	1116.8	1115.2	1155.6
42.5°	1272.0	1027.9	772.5	854.9	837.2	830.8	984.2	1073.1	1052.1	1057.0	1108.7
45°	1210.5	998.8	707.8	722.5	787.1	782.2	924.4	1010.1	995.6	1008.5	1061.9
47.5°	1149.1	940.6	686.8	599.6	733.7	732.1	858.2	948.7	940.6	953.6	1010.1
50°	1065.0	875.9	685.2	514.0	673.9	680.4	779.0	888.9	888.9	900.2	960.0
52.5°	956.8	796.8	622.2	465.5	604.4	623.8	709.5	837.2	840.4	851.8	905.1
55°	858.2	714.3	577.0	428.3	522.0	564.0	641.7	783.9	790.3	801.6	850.1
57.5°	767.7	594.8	567.3	384.7	446.1	486.5	581.8	732.1	735.4	745.1	791.9
60°	670.7	429.9	520.4	337.8	379.8	410.5	526.9	670.7	682.1	688.5	728.9
62.5°	560.8	311.9	472.0	305.4	347.4	353.9	481.6	612.5	627.1	631.9	656.2
65°	399.2	261.9	400.8	278.0	313.5	315.2	433.1	552.8	565.6	573.8	591.5
67.5°	269.9	213.3	305.4	252.1	287.6	289.3	386.3	483.2	501.0	507.5	518.8
70°	187.5	142.2	226.2	224.6	258.6	261.9	336.2	420.2	436.3	441.2	447.7
72.5°	137.3	114.8	187.5	202.0	227.9	231.1	284.4	349.1	365.3	370.1	373.3
75°	105.0	121.2	151.9	176.2	194.0	195.6	232.7	284.4	295.8	299.0	300.6
77.5°	84.0	113.2	111.5	142.2	158.3	155.2	182.6	219.8	229.5	229.5	229.5
80°	63.0	88.9	84.0	101.8	116.3	113.2	130.9	156.8	160.0	163.2	161.6
82.5°	46.9	56.5	56.5	64.7	77.5	74.3	87.3	101.8	101.8	101.8	105.0
85°	29.1	32.3	25.9	33.9	43.6	42.0	48.5	54.9	56.5	56.5	53.3
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.6	24.3	22.6	22.6	22.6
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.8	20.2
92.5°	69.9	42.9	15.9	42.9	69.9	76.7	107.8	149.3	170.0	149.0	107.0
95°	137.0	87.6	38.1	87.6	137.0	149.4	265.2	419.6	496.9	443.4	336.4
97.5°	153.2	109.5	65.9	109.5	153.2	164.1	357.3	614.8	743.6	709.8	642.1
100°	166.5	126.9	87.4	126.9	166.5	176.4	390.8	676.6	819.5	822.0	826.8
102.5°	179.4	142.6	105.6	142.6	179.4	188.7	406.2	696.0	841.0	884.0	970.2
105°	199.1	167.9	136.7	167.9	199.1	206.9	417.5	698.2	838.6	935.1	1128.2
107.5°	226.7	197.6	168.5	197.6	226.7	234.0	419.6	667.1	790.8	925.6	1195.0
110°	242.5	216.2	189.9	216.2	242.5	249.1	416.4	639.6	751.1	901.7	1202.9



TEST NUMBER: P935385

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.0	236.0	211.0	236.0	261.0	267.3	416.6	615.5	715.0	869.1	1177.3
115°	288.9	265.8	242.7	265.8	288.9	294.7	420.4	588.0	671.7	820.2	1117.2
117.5°	316.1	295.1	274.1	295.1	316.1	321.4	428.2	570.7	642.0	775.9	1043.9
120°	331.9	312.1	292.3	312.1	331.9	336.8	434.5	564.9	630.0	752.4	997.3
122.5°	350.2	330.2	310.3	330.2	350.2	355.2	443.7	561.8	620.8	731.1	951.6
125°	374.0	355.8	337.7	355.8	374.0	378.6	456.0	559.2	610.9	704.6	891.9
127.5°	396.6	378.2	359.8	378.2	396.6	401.2	468.3	557.8	602.6	683.0	843.8
130°	411.3	391.6	371.8	391.6	411.3	416.3	477.3	558.8	599.5	671.1	814.2
132.5°	423.6	403.9	384.1	403.9	423.6	428.6	484.6	559.2	596.6	660.7	788.8
135°	438.4	420.4	402.4	420.4	438.4	442.9	492.6	558.8	591.9	645.6	752.8
137.5°	456.7	438.9	421.1	438.9	456.7	461.2	504.4	562.2	591.0	636.4	727.1
140°	469.4	453.0	436.5	453.0	469.4	473.5	511.8	562.8	588.3	627.4	705.8
142.5°	478.8	463.7	448.5	463.7	478.8	482.7	517.9	564.8	588.3	622.7	691.5
145°	493.2	480.0	466.7	480.0	493.2	496.5	525.8	564.9	584.4	612.5	668.8
147.5°	510.7	497.9	485.0	497.9	510.7	514.0	537.5	568.7	584.4	606.5	650.8
150°	520.2	508.5	496.9	508.5	520.2	523.1	543.6	570.8	584.4	603.1	640.4
152.5°	526.9	518.0	509.2	518.0	526.9	529.1	547.5	572.0	584.4	600.3	632.2
155°	540.6	534.0	527.5	534.0	540.6	542.2	556.3	575.0	584.4	597.1	622.5
157.5°	553.7	547.4	541.0	547.4	553.7	555.3	565.0	577.9	584.4	594.2	614.0
160°	560.0	555.1	550.2	555.1	560.0	561.3	569.0	579.2	584.4	592.9	609.8
162.5°	566.7	563.0	559.2	563.0	566.7	567.7	573.2	580.6	584.4	591.5	605.8
165°	575.9	572.5	569.2	572.5	575.9	576.7	579.3	582.6	584.4	589.5	599.7
167.5°	581.6	580.0	578.3	580.0	581.6	582.0	584.1	586.8	588.3	591.6	598.3
170°	587.5	585.9	584.4	585.9	587.5	587.9	588.0	588.2	588.3	591.6	598.3
172.5°	588.2	587.9	587.5	587.9	588.2	588.3	588.3	588.3	588.3	591.0	596.2
175°	591.9	591.9	591.9	591.9	591.9	591.9	590.7	589.0	588.3	590.0	593.3
177.5°	591.9	591.9	591.9	591.9	591.9	591.9	591.0	589.7	589.0	590.4	593.1
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



TEST NUMBER: P935385

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1648.5	1643.7	1650.1	1632.3	1650.1	1643.7	1648.5	1659.8	1650.1	1656.5	1663.0
5°	1446.4	1438.4	1412.5	1391.5	1412.5	1438.4	1446.4	1480.4	1496.6	1525.7	1564.5
7.5°	1293.0	1286.5	1280.0	1267.1	1280.0	1286.5	1293.0	1302.6	1318.8	1344.6	1373.8
10°	1259.0	1260.6	1270.3	1268.7	1270.3	1260.6	1259.0	1255.7	1251.0	1255.7	1273.5
12.5°	1346.3	1360.8	1414.2	1410.9	1414.2	1360.8	1346.3	1281.6	1238.0	1229.9	1233.1
15°	1446.4	1451.3	1462.7	1464.2	1462.7	1451.3	1446.4	1420.7	1289.7	1233.1	1215.3
17.5°	1456.2	1457.8	1465.8	1465.8	1465.8	1457.8	1456.2	1444.8	1401.2	1325.3	1225.1
20°	1448.1	1451.3	1467.5	1470.7	1467.5	1451.3	1448.1	1433.6	1409.3	1381.8	1305.9
22.5°	1444.8	1451.3	1464.2	1462.7	1464.2	1451.3	1444.8	1422.2	1401.2	1381.8	1351.1
25°	1428.7	1428.7	1430.3	1431.9	1430.3	1428.7	1428.7	1410.9	1368.9	1364.0	1346.3
27.5°	1394.8	1398.0	1407.7	1406.0	1407.7	1398.0	1394.8	1388.3	1343.0	1338.1	1325.3
30°	1364.0	1360.8	1352.8	1346.3	1352.8	1360.8	1364.0	1354.4	1309.1	1296.1	1299.4
32.5°	1312.4	1304.2	1296.1	1291.4	1296.1	1304.2	1312.4	1309.1	1275.1	1257.4	1260.6
35°	1251.0	1252.5	1251.0	1246.1	1251.0	1252.5	1251.0	1254.1	1233.1	1217.0	1215.3
37.5°	1207.3	1210.5	1208.9	1202.4	1208.9	1210.5	1207.3	1204.1	1174.9	1170.1	1173.3
40°	1162.0	1163.7	1162.0	1157.2	1162.0	1163.7	1162.0	1155.6	1115.2	1116.8	1128.0
42.5°	1118.4	1116.8	1111.9	1108.7	1111.9	1116.8	1118.4	1108.7	1057.0	1052.1	1073.1
45°	1068.3	1069.9	1060.2	1055.4	1060.2	1069.9	1068.3	1061.9	1008.5	995.6	1010.1
47.5°	1018.2	1018.2	1010.1	1005.2	1010.1	1018.2	1018.2	1010.1	953.6	940.6	948.7
50°	964.8	963.2	951.9	950.3	951.9	963.2	964.8	960.0	900.2	888.9	888.9
52.5°	903.4	903.4	905.1	908.3	905.1	903.4	903.4	905.1	851.8	840.4	837.2
55°	850.1	851.8	863.0	866.3	863.0	851.8	850.1	850.1	801.6	790.3	783.9
57.5°	795.1	795.1	803.3	803.3	803.3	795.1	795.1	791.9	745.1	735.4	732.1
60°	732.1	735.4	741.8	740.2	741.8	735.4	732.1	728.9	688.5	682.1	670.7
62.5°	665.8	669.1	670.7	667.4	670.7	669.1	665.8	656.2	631.9	627.1	612.5
65°	596.4	599.6	601.2	598.0	601.2	599.6	596.4	591.5	573.8	565.6	552.8
67.5°	525.2	523.6	522.0	528.5	522.0	523.6	525.2	518.8	507.5	501.0	483.2
70°	452.5	452.5	451.0	454.1	451.0	452.5	452.5	447.7	441.2	436.3	420.2
72.5°	374.9	373.3	379.8	374.9	379.8	373.3	374.9	373.3	370.1	365.3	349.1
75°	299.0	302.3	299.0	303.9	299.0	302.3	299.0	300.6	299.0	295.8	284.4
77.5°	227.9	231.1	227.9	227.9	227.9	231.1	227.9	229.5	229.5	229.5	219.8
80°	161.6	160.0	160.0	158.3	160.0	160.0	161.6	161.6	163.2	160.0	156.8
82.5°	103.4	101.8	101.8	105.0	101.8	101.8	103.4	105.0	101.8	101.8	101.8
85°	56.5	58.2	54.9	54.9	54.9	58.2	56.5	53.3	56.5	56.5	54.9
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.6	22.6	22.6	24.3
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	26.0
92.5°	75.4	72.5	60.5	48.4	60.5	72.5	75.4	107.0	149.0	170.0	149.3
95°	256.2	247.2	210.8	174.4	210.8	247.2	256.2	336.4	443.4	496.9	419.6
97.5°	591.4	574.1	504.9	435.8	504.9	574.1	591.4	642.1	709.8	743.6	614.8
100°	830.6	809.9	727.5	645.1	727.5	809.9	830.6	826.8	822.0	819.5	676.6
102.5°	1034.7	1017.1	946.5	875.9	946.5	1017.1	1034.7	970.2	884.0	841.0	696.0
105°	1273.1	1263.7	1225.6	1187.7	1225.6	1263.7	1273.1	1128.2	935.1	838.6	698.2
107.5°	1397.1	1399.4	1408.5	1417.7	1408.5	1399.4	1397.1	1195.0	925.6	790.8	667.1
110°	1428.8	1438.7	1478.2	1517.8	1478.2	1438.7	1428.8	1202.9	901.7	751.1	639.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1408.5	1423.7	1484.5	1545.2	1484.5	1423.7	1408.5	1177.3	869.1	715.0	615.5
115°	1339.9	1360.9	1445.1	1529.3	1445.1	1360.9	1339.9	1117.2	820.2	671.7	588.0
117.5°	1244.9	1268.2	1361.6	1455.0	1361.6	1268.2	1244.9	1043.9	775.9	642.0	570.7
120°	1181.0	1203.7	1294.4	1385.1	1294.4	1203.7	1181.0	997.3	752.4	630.0	564.9
122.5°	1117.0	1139.3	1228.9	1318.4	1228.9	1139.3	1117.0	951.6	731.1	620.8	561.8
125°	1032.4	1053.0	1135.4	1217.9	1135.4	1053.0	1032.4	891.9	704.6	610.9	559.2
127.5°	964.5	981.8	1051.5	1121.0	1051.5	981.8	964.5	843.8	683.0	602.6	557.8
130°	921.6	937.6	1001.9	1066.2	1001.9	937.6	921.6	814.2	671.1	599.5	558.8
132.5°	885.0	899.4	956.9	1014.5	956.9	899.4	885.0	788.8	660.7	596.6	559.2
135°	833.3	845.7	895.3	945.0	895.3	845.7	833.3	752.8	645.6	591.9	558.8
137.5°	795.2	805.4	846.0	886.6	846.0	805.4	795.2	727.1	636.4	591.0	562.2
140°	764.7	774.1	812.1	850.0	812.1	774.1	764.7	705.8	627.4	588.3	562.8
142.5°	743.2	751.4	784.1	816.7	784.1	751.4	743.2	691.5	622.7	588.3	564.8
145°	711.0	717.2	741.9	766.7	741.9	717.2	711.0	668.8	612.5	584.4	564.9
147.5°	684.1	689.2	709.7	730.1	709.7	689.2	684.1	650.8	606.5	584.4	568.7
150°	668.5	672.6	689.2	705.8	689.2	672.6	668.5	640.4	603.1	584.4	570.8
152.5°	656.2	659.3	671.8	684.4	671.8	659.3	656.2	632.2	600.3	584.4	572.0
155°	641.5	643.6	651.9	660.2	651.9	643.6	641.5	622.5	597.1	584.4	575.0
157.5°	628.8	630.2	636.1	642.0	636.1	630.2	628.8	614.0	594.2	584.4	577.9
160°	622.5	623.3	626.7	630.0	626.7	623.3	622.5	609.8	592.9	584.4	579.2
162.5°	616.5	617.2	620.5	623.6	620.5	617.2	616.5	605.8	591.5	584.4	580.6
165°	607.4	608.2	611.6	614.9	611.6	608.2	607.4	599.7	589.5	584.4	582.6
167.5°	603.4	603.8	605.1	606.5	605.1	603.8	603.4	598.3	591.6	588.3	586.8
170°	603.4	603.4	603.4	603.4	603.4	603.4	603.4	598.3	591.6	588.3	588.2
172.5°	600.2	599.9	598.7	597.4	598.7	599.9	600.2	596.2	591.0	588.3	588.3
175°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	593.3	590.0	588.3	589.0
177.5°	595.1	594.7	593.3	591.9	593.3	594.7	595.1	593.1	590.4	589.0	589.7
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1687.3	1695.3	1700.2	1706.7	1722.8
5°	1622.6	1653.3	1663.0	1687.3	1716.3
7.5°	1480.4	1574.1	1600.0	1658.2	1703.4
10°	1343.0	1436.8	1482.1	1619.4	1687.3
12.5°	1273.5	1328.5	1359.2	1551.5	1664.7
15°	1229.9	1268.7	1291.4	1461.1	1638.8
17.5°	1195.9	1223.5	1239.6	1372.1	1603.3
20°	1174.9	1187.9	1202.4	1307.5	1562.9
22.5°	1160.4	1152.3	1163.7	1262.2	1507.8
25°	1150.7	1120.0	1132.9	1226.7	1443.2
27.5°	1158.8	1090.9	1095.8	1194.3	1375.4
30°	1160.4	1055.4	1057.0	1160.4	1299.4
32.5°	1149.1	1018.2	1019.8	1118.4	1213.7
35°	1121.6	974.6	973.0	1069.9	1097.4
37.5°	1084.4	927.7	927.7	1016.6	969.7
40°	1039.2	880.8	885.7	947.1	856.5
42.5°	984.2	830.8	837.2	854.9	772.5
45°	924.4	782.2	787.1	722.5	707.8
47.5°	858.2	732.1	733.7	599.6	686.8
50°	779.0	680.4	673.9	514.0	685.2
52.5°	709.5	623.8	604.4	465.5	622.2
55°	641.7	564.0	522.0	428.3	577.0
57.5°	581.8	486.5	446.1	384.7	567.3
60°	526.9	410.5	379.8	337.8	520.4
62.5°	481.6	353.9	347.4	305.4	472.0
65°	433.1	315.2	313.5	278.0	400.8
67.5°	386.3	289.3	287.6	252.1	305.4
70°	336.2	261.9	258.6	224.6	226.2
72.5°	284.4	231.1	227.9	202.0	187.5
75°	232.7	195.6	194.0	176.2	151.9
77.5°	182.6	155.2	158.3	142.2	111.5
80°	130.9	113.2	116.3	101.8	84.0
82.5°	87.3	74.3	77.5	64.7	56.5
85°	48.5	42.0	43.6	33.9	25.9
87.5°	22.6	19.4	19.4	12.9	8.1
90°	17.5	11.1	10.3	7.2	4.0
92.5°	107.8	76.7	69.9	42.9	15.9
95°	265.2	149.4	137.0	87.6	38.1
97.5°	357.3	164.1	153.2	109.5	65.9
100°	390.8	176.4	166.5	126.9	87.4
102.5°	406.2	188.7	179.4	142.6	105.6
105°	417.5	206.9	199.1	167.9	136.7
107.5°	419.6	234.0	226.7	197.6	168.5
110°	416.4	249.1	242.5	216.2	189.9



TEST NUMBER: P935385

CATALOG NUMBER: SQ4-FA-100U-125D-B2750-1D-UNV-STD-W-4-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	416.6	267.3	261.0	236.0	211.0
115°	420.4	294.7	288.9	265.8	242.7
117.5°	428.2	321.4	316.1	295.1	274.1
120°	434.5	336.8	331.9	312.1	292.3
122.5°	443.7	355.2	350.2	330.2	310.3
125°	456.0	378.6	374.0	355.8	337.7
127.5°	468.3	401.2	396.6	378.2	359.8
130°	477.3	416.3	411.3	391.6	371.8
132.5°	484.6	428.6	423.6	403.9	384.1
135°	492.6	442.9	438.4	420.4	402.4
137.5°	504.4	461.2	456.7	438.9	421.1
140°	511.8	473.5	469.4	453.0	436.5
142.5°	517.9	482.7	478.8	463.7	448.5
145°	525.8	496.5	493.2	480.0	466.7
147.5°	537.5	514.0	510.7	497.9	485.0
150°	543.6	523.1	520.2	508.5	496.9
152.5°	547.5	529.1	526.9	518.0	509.2
155°	556.3	542.2	540.6	534.0	527.5
157.5°	565.0	555.3	553.7	547.4	541.0
160°	569.0	561.3	560.0	555.1	550.2
162.5°	573.2	567.7	566.7	563.0	559.2
165°	579.3	576.7	575.9	572.5	569.2
167.5°	584.1	582.0	581.6	580.0	578.3
170°	588.0	587.9	587.5	585.9	584.4
172.5°	588.3	588.3	588.2	587.9	587.5
175°	590.7	591.9	591.9	591.9	591.9
177.5°	591.0	591.9	591.9	591.9	591.9
180°	591.9	591.9	591.9	591.9	591.9



TEST NUMBER: P935385
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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	14.72	15.62	15.65	16.56	17.78	17.52	18.41	18.44	19.36	20.58
	3H	15.20	16.00	16.14	16.95	18.20	18.86	19.66	19.79	20.61	21.85
	4H	15.39	16.15	16.35	17.11	18.36	19.30	20.05	20.25	21.01	22.26
	6H	15.51	16.21	16.48	17.18	18.44	19.57	20.27	20.54	21.24	22.50
	8H	15.52	16.18	16.49	17.16	18.42	19.65	20.31	20.62	21.29	22.55
	12H	15.49	16.12	16.46	17.10	18.38	19.68	20.31	20.66	21.29	22.58
4H	2H	15.75	16.51	16.71	17.47	18.72	17.93	18.69	18.89	19.65	20.90
	3H	16.78	17.41	17.75	18.40	19.66	19.43	20.06	20.40	21.05	22.32
	4H	17.06	17.63	18.03	18.62	19.91	19.96	20.53	20.93	21.51	22.80
	6H	17.18	17.68	18.17	18.69	19.97	20.31	20.81	21.30	21.82	23.10
	8H	17.19	17.66	18.18	18.65	19.96	20.42	20.88	21.41	21.88	23.18
	12H	17.16	17.58	18.17	18.59	19.90	20.47	20.89	21.48	21.90	23.21
8H	4H	17.51	17.97	18.50	18.97	20.27	20.08	20.55	21.07	21.55	22.85
	6H	17.77	18.16	18.79	19.19	20.50	20.51	20.90	21.53	21.94	23.24
	8H	17.81	18.15	18.84	19.18	20.50	20.66	21.00	21.68	22.03	23.35
	12H	17.80	18.10	18.83	19.12	20.48	20.75	21.05	21.78	22.07	23.44
12H	4H	17.52	17.93	18.52	18.95	20.26	20.05	20.47	21.06	21.48	22.79
	6H	17.83	18.17	18.85	19.20	20.52	20.51	20.85	21.53	21.88	23.20
	8H	17.90	18.20	18.93	19.22	20.58	20.67	20.97	21.70	21.99	23.35