

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: P934602

Luminaire Tested: SQ4-FA-050U-125D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934602
REPORT IS A COMBINATION OF REPORTS P933702 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

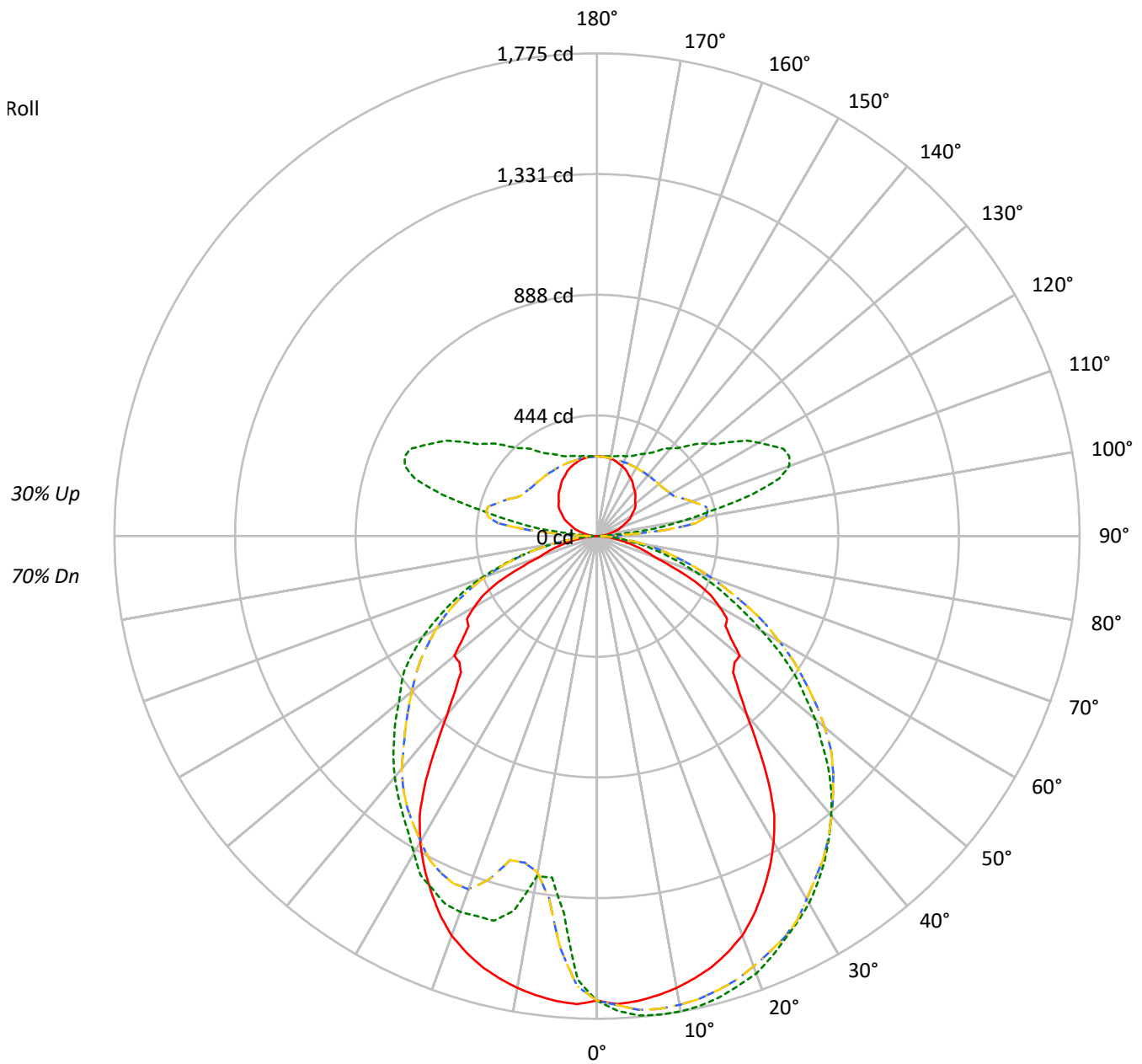
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6331.6 lumens
Efficiency: N/A
Efficacy: 113.1 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: Semi-Direct

Input Watts (W): 56
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	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

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	2.4
10°-20°	437.8	6.9
20°-30°	676.8	10.7
30°-40°	807.9	12.8
40°-50°	812.7	12.8
50°-60°	707.1	11.2
60°-70°	501.4	7.9
70°-80°	265.3	4.2
80°-90°	67.2	1.1
90°-100°	142.9	2.3
100°-110°	375.9	5.9
110°-120°	389.7	6.2
120°-130°	312.6	4.9
130°-140°	245.3	3.9
140°-150°	188.3	3.0
150°-160°	135.6	2.1
160°-170°	83.0	1.3
170°-180°	28.0	0.4
0°-30°	1268.8	20.0
0°-40°	2076.8	32.8
0°-60°	3596.6	56.8
0°-90°	4430.4	70.0
90°-120°	908.5	14.3
90°-150°	1654.7	26.1
90°-180°	1901.0	30.0
0°-180°	6331.6	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°	2	7	2	7	2	3
95°	19	86	19	86	19	21
105°	68	589	68	589	68	72
115°	120	758	120	758	120	119
125°	167	604	167	604	167	149
135°	199	468	199	468	199	154
145°	231	380	231	380	231	145
155°	261	327	261	327	261	120
165°	282	305	282	305	282	80
175°	293	295	293	295	293	28
180°	293	293	293	293	293	



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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°	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9	7.4	7.4
92.5°	7.8	21.2	34.7	38.0	53.4	73.9	84.2	73.8	53.0	37.4	35.9
95°	18.9	43.4	67.9	74.0	131.4	207.9	246.2	219.6	166.6	126.9	122.4
97.5°	32.7	54.2	75.8	81.3	177.0	304.6	368.4	351.7	318.2	293.1	284.5
100°	43.3	62.8	82.5	87.4	193.6	335.2	406.1	407.3	409.8	411.6	401.4
102.5°	52.3	70.7	88.9	93.5	201.2	344.9	416.7	438.1	480.7	512.7	504.0
105°	67.7	83.2	98.7	102.6	206.9	346.0	415.5	463.4	559.1	630.9	626.2
107.5°	83.5	97.9	112.3	115.9	207.9	330.6	391.9	458.7	592.2	692.3	693.4
110°	94.1	107.1	120.1	123.4	206.4	317.0	372.3	446.8	596.1	708.0	712.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.5	116.9	129.3	132.5	206.4	305.0	354.3	430.7	583.4	698.0	705.6
115°	120.2	131.7	143.2	146.0	208.3	291.3	332.8	406.4	553.5	663.9	674.3
117.5°	135.8	146.2	156.6	159.2	212.2	282.8	318.1	384.5	517.2	616.8	628.4
120°	144.9	154.7	164.5	166.9	215.4	279.9	312.2	372.8	494.2	585.2	596.5
122.5°	153.8	163.7	173.5	176.0	219.8	278.4	307.6	362.2	471.6	553.5	564.6
125°	167.3	176.3	185.3	187.6	226.0	277.1	302.7	349.1	442.0	511.6	521.8
127.5°	178.3	187.5	196.5	198.8	232.1	276.5	298.6	338.5	418.1	477.9	486.5
130°	184.2	194.1	203.8	206.3	236.6	276.9	297.0	332.5	403.5	456.7	464.6
132.5°	190.3	200.2	209.9	212.4	240.2	277.1	295.7	327.4	390.9	438.5	445.7
135°	199.4	208.3	217.3	219.5	244.1	276.9	293.3	319.8	373.0	412.9	419.1
137.5°	208.7	217.5	226.3	228.5	250.0	278.6	292.9	315.3	360.3	394.0	399.1
140°	216.3	224.4	232.6	234.6	253.6	278.9	291.5	310.9	349.8	378.9	383.6
142.5°	222.2	229.8	237.2	239.1	256.6	279.8	291.5	308.6	342.7	368.2	372.3
145°	231.3	237.8	244.4	246.0	260.5	279.9	289.6	303.5	331.4	352.3	355.4
147.5°	240.4	246.8	253.1	254.7	266.3	281.8	289.6	300.5	322.5	338.9	341.5
150°	246.2	251.9	257.8	259.2	269.3	282.8	289.6	298.8	317.3	331.3	333.4
152.5°	252.3	256.7	261.1	262.1	271.3	283.4	289.6	297.5	313.3	325.2	326.7
155°	261.4	264.6	267.9	268.6	275.6	284.9	289.6	295.9	308.5	317.9	319.0
157.5°	268.1	271.2	274.4	275.1	279.9	286.3	289.6	294.4	304.3	311.6	312.4
160°	272.7	275.0	277.5	278.1	281.9	287.0	289.6	293.8	302.2	308.5	308.8
162.5°	277.1	279.0	280.8	281.2	284.0	287.7	289.6	293.1	300.2	305.5	305.9
165°	282.1	283.7	285.4	285.8	287.1	288.7	289.6	292.0	297.1	300.9	301.3
167.5°	286.6	287.4	288.1	288.3	289.4	290.8	291.5	293.2	296.5	299.0	299.2
170°	289.6	290.3	291.1	291.3	291.4	291.5	291.5	293.2	296.5	299.0	299.0
172.5°	291.1	291.3	291.5	291.5	291.5	291.5	291.5	292.8	295.4	297.4	297.2
175°	293.3	293.3	293.3	293.3	292.7	291.8	291.5	292.3	294.0	295.3	295.3
177.5°	293.3	293.3	293.3	293.3	292.8	292.2	291.9	292.6	293.9	294.9	294.7
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



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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°	7.4	7.4	7.4	7.4	7.4	9.9	13.3	15.0	12.9	8.7	5.5
92.5°	30.0	24.0	30.0	35.9	37.4	53.0	73.8	84.2	73.9	53.4	38.0
95°	104.4	86.4	104.4	122.4	126.9	166.6	219.6	246.2	207.9	131.4	74.0
97.5°	250.2	215.9	250.2	284.5	293.1	318.2	351.7	368.4	304.6	177.0	81.3
100°	360.5	319.6	360.5	401.4	411.6	409.8	407.3	406.1	335.2	193.6	87.4
102.5°	469.0	434.0	469.0	504.0	512.7	480.7	438.1	416.7	344.9	201.2	93.5
105°	607.4	588.6	607.4	626.2	630.9	559.1	463.4	415.5	346.0	206.9	102.6
107.5°	697.9	702.5	697.9	693.4	692.3	592.2	458.7	391.9	330.6	207.9	115.9
110°	732.5	752.1	732.5	712.9	708.0	596.1	446.8	372.3	317.0	206.4	123.4



TEST NUMBER: P934602

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	735.6	765.7	735.6	705.6	698.0	583.4	430.7	354.3	305.0	206.4	132.5
115°	716.1	757.8	716.1	674.3	663.9	553.5	406.4	332.8	291.3	208.3	146.0
117.5°	674.7	721.0	674.7	628.4	616.8	517.2	384.5	318.1	282.8	212.2	159.2
120°	641.4	686.4	641.4	596.5	585.2	494.2	372.8	312.2	279.9	215.4	166.9
122.5°	609.0	653.3	609.0	564.6	553.5	471.6	362.2	307.6	278.4	219.8	176.0
125°	562.6	603.5	562.6	521.8	511.6	442.0	349.1	302.7	277.1	226.0	187.6
127.5°	521.0	555.4	521.0	486.5	477.9	418.1	338.5	298.6	276.5	232.1	198.8
130°	496.5	528.3	496.5	464.6	456.7	403.5	332.5	297.0	276.9	236.6	206.3
132.5°	474.2	502.7	474.2	445.7	438.5	390.9	327.4	295.7	277.1	240.2	212.4
135°	443.7	468.2	443.7	419.1	412.9	373.0	319.8	293.3	276.9	244.1	219.5
137.5°	419.1	439.3	419.1	399.1	394.0	360.3	315.3	292.9	278.6	250.0	228.5
140°	402.4	421.3	402.4	383.6	378.9	349.8	310.9	291.5	278.9	253.6	234.6
142.5°	388.5	404.7	388.5	372.3	368.2	342.7	308.6	291.5	279.8	256.6	239.1
145°	367.7	379.9	367.7	355.4	352.3	331.4	303.5	289.6	279.9	260.5	246.0
147.5°	351.6	361.8	351.6	341.5	338.9	322.5	300.5	289.6	281.8	266.3	254.7
150°	341.6	349.8	341.6	333.4	331.3	317.3	298.8	289.6	282.8	269.3	259.2
152.5°	332.9	339.1	332.9	326.7	325.2	313.3	297.5	289.6	283.4	271.3	262.1
155°	323.1	327.2	323.1	319.0	317.9	308.5	295.9	289.6	284.9	275.6	268.6
157.5°	315.2	318.1	315.2	312.4	311.6	304.3	294.4	289.6	286.3	279.9	275.1
160°	310.6	312.2	310.6	308.8	308.5	302.2	293.8	289.6	287.0	281.9	278.1
162.5°	307.5	309.0	307.5	305.9	305.5	300.2	293.1	289.6	287.7	284.0	281.2
165°	303.0	304.7	303.0	301.3	300.9	297.1	292.0	289.6	288.7	287.1	285.8
167.5°	299.9	300.5	299.9	299.2	299.0	296.5	293.2	291.5	290.8	289.4	288.3
170°	299.0	299.0	299.0	299.0	299.0	296.5	293.2	291.5	291.5	291.4	291.3
172.5°	296.6	296.0	296.6	297.2	297.4	295.4	292.8	291.5	291.5	291.5	291.5
175°	295.3	295.3	295.3	295.3	295.3	294.0	292.3	291.5	291.8	292.7	293.3
177.5°	294.0	293.3	294.0	294.7	294.9	293.9	292.6	291.9	292.2	292.8	293.3
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934602
 CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-STD-W-4

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°	5.2	3.5	2.0	3.5	5.2	5.5	8.7	12.9	15.0	13.3	9.9
92.5°	34.7	21.2	7.8	21.2	34.7	38.0	53.4	73.9	84.2	73.8	53.0
95°	67.9	43.4	18.9	43.4	67.9	74.0	131.4	207.9	246.2	219.6	166.6
97.5°	75.8	54.2	32.7	54.2	75.8	81.3	177.0	304.6	368.4	351.7	318.2
100°	82.5	62.8	43.3	62.8	82.5	87.4	193.6	335.2	406.1	407.3	409.8
102.5°	88.9	70.7	52.3	70.7	88.9	93.5	201.2	344.9	416.7	438.1	480.7
105°	98.7	83.2	67.7	83.2	98.7	102.6	206.9	346.0	415.5	463.4	559.1
107.5°	112.3	97.9	83.5	97.9	112.3	115.9	207.9	330.6	391.9	458.7	592.2
110°	120.1	107.1	94.1	107.1	120.1	123.4	206.4	317.0	372.3	446.8	596.1



TEST NUMBER: P934602

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.3	116.9	104.5	116.9	129.3	132.5	206.4	305.0	354.3	430.7	583.4
115°	143.2	131.7	120.2	131.7	143.2	146.0	208.3	291.3	332.8	406.4	553.5
117.5°	156.6	146.2	135.8	146.2	156.6	159.2	212.2	282.8	318.1	384.5	517.2
120°	164.5	154.7	144.9	154.7	164.5	166.9	215.4	279.9	312.2	372.8	494.2
122.5°	173.5	163.7	153.8	163.7	173.5	176.0	219.8	278.4	307.6	362.2	471.6
125°	185.3	176.3	167.3	176.3	185.3	187.6	226.0	277.1	302.7	349.1	442.0
127.5°	196.5	187.5	178.3	187.5	196.5	198.8	232.1	276.5	298.6	338.5	418.1
130°	203.8	194.1	184.2	194.1	203.8	206.3	236.6	276.9	297.0	332.5	403.5
132.5°	209.9	200.2	190.3	200.2	209.9	212.4	240.2	277.1	295.7	327.4	390.9
135°	217.3	208.3	199.4	208.3	217.3	219.5	244.1	276.9	293.3	319.8	373.0
137.5°	226.3	217.5	208.7	217.5	226.3	228.5	250.0	278.6	292.9	315.3	360.3
140°	232.6	224.4	216.3	224.4	232.6	234.6	253.6	278.9	291.5	310.9	349.8
142.5°	237.2	229.8	222.2	229.8	237.2	239.1	256.6	279.8	291.5	308.6	342.7
145°	244.4	237.8	231.3	237.8	244.4	246.0	260.5	279.9	289.6	303.5	331.4
147.5°	253.1	246.8	240.4	246.8	253.1	254.7	266.3	281.8	289.6	300.5	322.5
150°	257.8	251.9	246.2	251.9	257.8	259.2	269.3	282.8	289.6	298.8	317.3
152.5°	261.1	256.7	252.3	256.7	261.1	262.1	271.3	283.4	289.6	297.5	313.3
155°	267.9	264.6	261.4	264.6	267.9	268.6	275.6	284.9	289.6	295.9	308.5
157.5°	274.4	271.2	268.1	271.2	274.4	275.1	279.9	286.3	289.6	294.4	304.3
160°	277.5	275.0	272.7	275.0	277.5	278.1	281.9	287.0	289.6	293.8	302.2
162.5°	280.8	279.0	277.1	279.0	280.8	281.2	284.0	287.7	289.6	293.1	300.2
165°	285.4	283.7	282.1	283.7	285.4	285.8	287.1	288.7	289.6	292.0	297.1
167.5°	288.1	287.4	286.6	287.4	288.1	288.3	289.4	290.8	291.5	293.2	296.5
170°	291.1	290.3	289.6	290.3	291.1	291.3	291.4	291.5	291.5	293.2	296.5
172.5°	291.5	291.3	291.1	291.3	291.5	291.5	291.5	291.5	291.5	292.8	295.4
175°	293.3	293.3	293.3	293.3	293.3	293.3	292.7	291.8	291.5	292.3	294.0
177.5°	293.3	293.3	293.3	293.3	293.3	293.3	292.8	292.2	291.9	292.6	293.9
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934602

CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-STD-W-4

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°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	9.9	13.3	15.0	12.9
92.5°	37.4	35.9	30.0	24.0	30.0	35.9	37.4	53.0	73.8	84.2	73.9
95°	126.9	122.4	104.4	86.4	104.4	122.4	126.9	166.6	219.6	246.2	207.9
97.5°	293.1	284.5	250.2	215.9	250.2	284.5	293.1	318.2	351.7	368.4	304.6
100°	411.6	401.4	360.5	319.6	360.5	401.4	411.6	409.8	407.3	406.1	335.2
102.5°	512.7	504.0	469.0	434.0	469.0	504.0	512.7	480.7	438.1	416.7	344.9
105°	630.9	626.2	607.4	588.6	607.4	626.2	630.9	559.1	463.4	415.5	346.0
107.5°	692.3	693.4	697.9	702.5	697.9	693.4	692.3	592.2	458.7	391.9	330.6
110°	708.0	712.9	732.5	752.1	732.5	712.9	708.0	596.1	446.8	372.3	317.0



TEST NUMBER: P934602

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	698.0	705.6	735.6	765.7	735.6	705.6	698.0	583.4	430.7	354.3	305.0
115°	663.9	674.3	716.1	757.8	716.1	674.3	663.9	553.5	406.4	332.8	291.3
117.5°	616.8	628.4	674.7	721.0	674.7	628.4	616.8	517.2	384.5	318.1	282.8
120°	585.2	596.5	641.4	686.4	641.4	596.5	585.2	494.2	372.8	312.2	279.9
122.5°	553.5	564.6	609.0	653.3	609.0	564.6	553.5	471.6	362.2	307.6	278.4
125°	511.6	521.8	562.6	603.5	562.6	521.8	511.6	442.0	349.1	302.7	277.1
127.5°	477.9	486.5	521.0	555.4	521.0	486.5	477.9	418.1	338.5	298.6	276.5
130°	456.7	464.6	496.5	528.3	496.5	464.6	456.7	403.5	332.5	297.0	276.9
132.5°	438.5	445.7	474.2	502.7	474.2	445.7	438.5	390.9	327.4	295.7	277.1
135°	412.9	419.1	443.7	468.2	443.7	419.1	412.9	373.0	319.8	293.3	276.9
137.5°	394.0	399.1	419.1	439.3	419.1	399.1	394.0	360.3	315.3	292.9	278.6
140°	378.9	383.6	402.4	421.3	402.4	383.6	378.9	349.8	310.9	291.5	278.9
142.5°	368.2	372.3	388.5	404.7	388.5	372.3	368.2	342.7	308.6	291.5	279.8
145°	352.3	355.4	367.7	379.9	367.7	355.4	352.3	331.4	303.5	289.6	279.9
147.5°	338.9	341.5	351.6	361.8	351.6	341.5	338.9	322.5	300.5	289.6	281.8
150°	331.3	333.4	341.6	349.8	341.6	333.4	331.3	317.3	298.8	289.6	282.8
152.5°	325.2	326.7	332.9	339.1	332.9	326.7	325.2	313.3	297.5	289.6	283.4
155°	317.9	319.0	323.1	327.2	323.1	319.0	317.9	308.5	295.9	289.6	284.9
157.5°	311.6	312.4	315.2	318.1	315.2	312.4	311.6	304.3	294.4	289.6	286.3
160°	308.5	308.8	310.6	312.2	310.6	308.8	308.5	302.2	293.8	289.6	287.0
162.5°	305.5	305.9	307.5	309.0	307.5	305.9	305.5	300.2	293.1	289.6	287.7
165°	300.9	301.3	303.0	304.7	303.0	301.3	300.9	297.1	292.0	289.6	288.7
167.5°	299.0	299.2	299.9	300.5	299.9	299.2	299.0	296.5	293.2	291.5	290.8
170°	299.0	299.0	299.0	299.0	299.0	299.0	299.0	296.5	293.2	291.5	291.5
172.5°	297.4	297.2	296.6	296.0	296.6	297.2	297.4	295.4	292.8	291.5	291.5
175°	295.3	295.3	295.3	295.3	295.3	295.3	295.3	294.0	292.3	291.5	291.8
177.5°	294.9	294.7	294.0	293.3	294.0	294.7	294.9	293.9	292.6	291.9	292.2
180°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934602
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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°	8.7	5.5	5.2	3.5	2.0
92.5°	53.4	38.0	34.7	21.2	7.8
95°	131.4	74.0	67.9	43.4	18.9
97.5°	177.0	81.3	75.8	54.2	32.7
100°	193.6	87.4	82.5	62.8	43.3
102.5°	201.2	93.5	88.9	70.7	52.3
105°	206.9	102.6	98.7	83.2	67.7
107.5°	207.9	115.9	112.3	97.9	83.5
110°	206.4	123.4	120.1	107.1	94.1



TEST NUMBER: P934602
 CATALOG NUMBER: SQ4-FA-050U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	206.4	132.5	129.3	116.9	104.5
115°	208.3	146.0	143.2	131.7	120.2
117.5°	212.2	159.2	156.6	146.2	135.8
120°	215.4	166.9	164.5	154.7	144.9
122.5°	219.8	176.0	173.5	163.7	153.8
125°	226.0	187.6	185.3	176.3	167.3
127.5°	232.1	198.8	196.5	187.5	178.3
130°	236.6	206.3	203.8	194.1	184.2
132.5°	240.2	212.4	209.9	200.2	190.3
135°	244.1	219.5	217.3	208.3	199.4
137.5°	250.0	228.5	226.3	217.5	208.7
140°	253.6	234.6	232.6	224.4	216.3
142.5°	256.6	239.1	237.2	229.8	222.2
145°	260.5	246.0	244.4	237.8	231.3
147.5°	266.3	254.7	253.1	246.8	240.4
150°	269.3	259.2	257.8	251.9	246.2
152.5°	271.3	262.1	261.1	256.7	252.3
155°	275.6	268.6	267.9	264.6	261.4
157.5°	279.9	275.1	274.4	271.2	268.1
160°	281.9	278.1	277.5	275.0	272.7
162.5°	284.0	281.2	280.8	279.0	277.1
165°	287.1	285.8	285.4	283.7	282.1
167.5°	289.4	288.3	288.1	287.4	286.6
170°	291.4	291.3	291.1	290.3	289.6
172.5°	291.5	291.5	291.5	291.3	291.1
175°	292.7	293.3	293.3	293.3	293.3
177.5°	292.8	293.3	293.3	293.3	293.3
180°	293.3	293.3	293.3	293.3	293.3



TEST NUMBER: P934602
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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	16.06	17.14	16.83	17.92	18.88	18.86	19.93	19.62	20.72	21.67
	3H	16.55	17.52	17.33	18.32	19.30	20.21	21.18	20.99	21.97	22.96
	4H	16.76	17.67	17.55	18.47	19.47	20.66	21.57	21.45	22.37	23.37
	6H	16.89	17.73	17.69	18.54	19.55	20.95	21.79	21.75	22.60	23.61
	8H	16.89	17.69	17.71	18.53	19.54	21.02	21.82	21.84	22.66	23.67
	12H	16.87	17.63	17.70	18.46	19.50	21.06	21.83	21.89	22.65	23.69
4H	2H	17.11	18.02	17.91	18.83	19.82	19.30	20.21	20.10	21.01	22.01
	3H	18.16	18.92	18.97	19.76	20.77	20.81	21.57	21.62	22.41	23.42
	4H	18.44	19.13	19.27	19.97	21.01	21.34	22.03	22.17	22.87	23.91
	6H	18.58	19.18	19.42	20.04	21.09	21.71	22.31	22.55	23.17	24.22
	8H	18.59	19.15	19.44	20.01	21.06	21.82	22.38	22.66	23.23	24.29
	12H	18.57	19.07	19.44	19.95	21.01	21.88	22.38	22.75	23.26	24.32
8H	4H	18.91	19.47	19.76	20.32	21.38	21.48	22.04	22.33	22.90	23.96
	6H	19.18	19.64	20.05	20.54	21.60	21.92	22.38	22.80	23.28	24.34
	8H	19.22	19.63	20.11	20.53	21.60	22.07	22.48	22.96	23.37	24.45
	12H	19.22	19.58	20.11	20.46	21.59	22.17	22.53	23.06	23.42	24.55
12H	4H	18.92	19.43	19.79	20.30	21.37	21.46	21.96	22.33	22.84	23.90
	6H	19.24	19.65	20.13	20.55	21.62	21.92	22.33	22.81	23.23	24.30
	8H	19.32	19.68	20.20	20.56	21.69	22.09	22.45	22.97	23.33	24.46