

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: P934536

Luminaire Tested: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934536
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-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

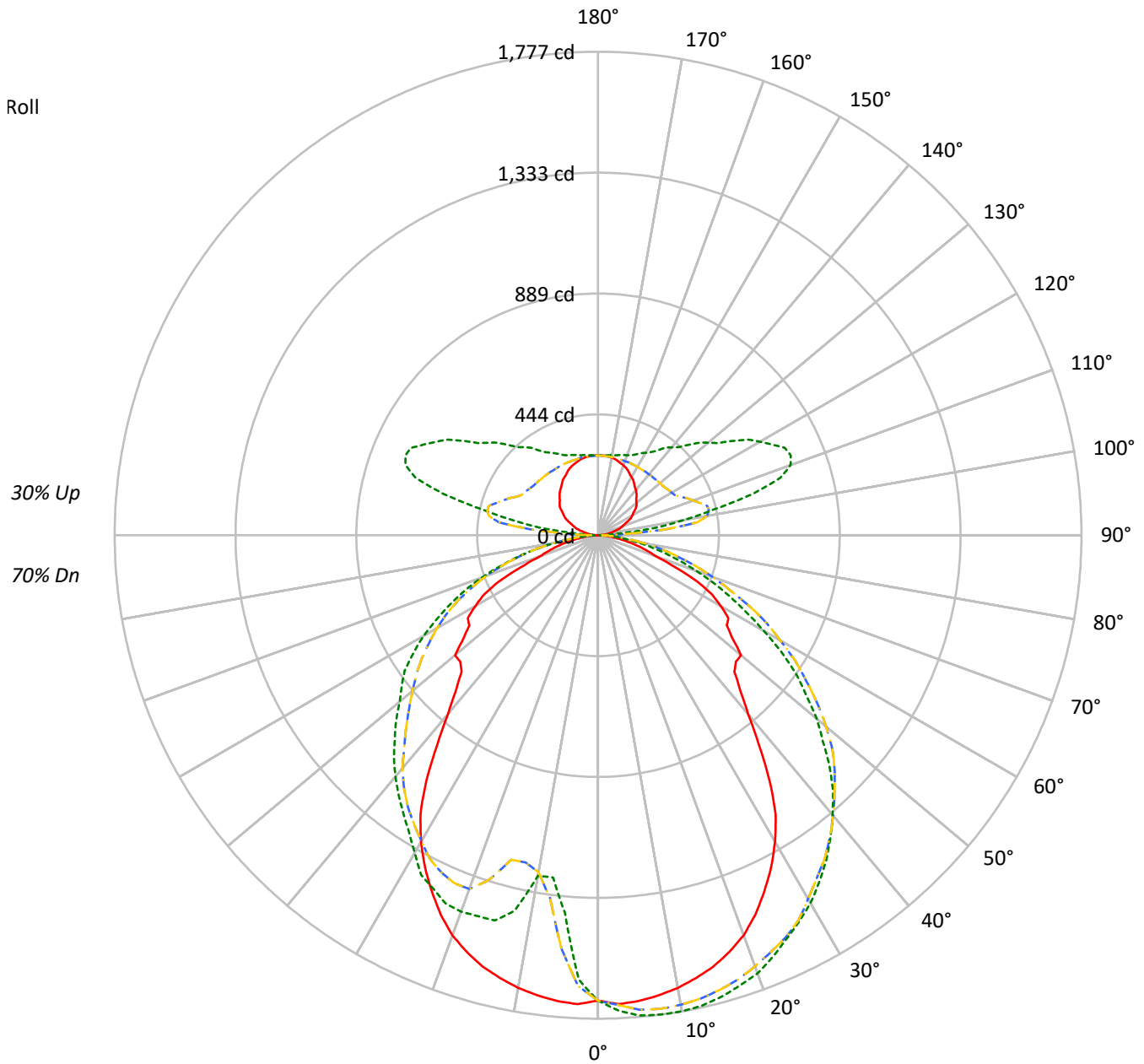
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6339.5 lumens
Efficiency: N/A
Efficacy: 113.2 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: 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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CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15871	15871	15871	15871
5°	15972	16021	15972	12598
10°	15848	15782	15848	11283
15°	15658	15441	15658	12892
20°	15313	15035	15313	12919
25°	14624	14444	14624	12646
30°	13742	13954	13742	12045
35°	12233	13334	12233	11384
40°	10175	12602	10175	10885
45°	9073	11748	9073	10311
50°	9618	10729	9618	9735
55°	9024	9630	9024	9402
60°	9268	8179	9268	8611
65°	8363	6762	8363	7558
70°	5750	5389	5750	6335
75°	4988	3984	4988	4771
80°	3936	2632	3936	2866
85°	2145	1394	2145	1185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	2.4
10°-20°	438.4	6.9
20°-30°	677.6	10.7
30°-40°	809.0	12.8
40°-50°	813.7	12.8
50°-60°	708.0	11.2
60°-70°	502.0	7.9
70°-80°	265.6	4.2
80°-90°	67.3	1.1
90°-100°	143.1	2.3
100°-110°	376.3	5.9
110°-120°	390.2	6.2
120°-130°	313.0	4.9
130°-140°	245.6	3.9
140°-150°	188.5	3.0
150°-160°	135.8	2.1
160°-170°	83.1	1.3
170°-180°	28.1	0.4
0°-30°	1270.4	20.0
0°-40°	2079.4	32.8
0°-60°	3601.1	56.8
0°-90°	4435.9	70.0
90°-120°	909.6	14.3
90°-150°	1656.7	26.1
90°-180°	1904.0	30.0
0°-180°	6339.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1710	1710	1710	1710	1710	
5°	1718	1772	1718	1393	1718	163
15°	1641	1756	1641	1466	1641	462
25°	1445	1638	1445	1434	1445	663
35°	1099	1461	1099	1248	1099	680
45°	709	1204	709	1057	709	568
55°	578	888	578	867	578	531
65°	401	536	401	599	401	384
75°	152	254	152	304	152	160
85°	26	65	26	55	26	35
90°	2	8	2	8	2	3
95°	19	86	19	86	19	21
105°	68	589	68	589	68	72
115°	120	759	120	759	120	119
125°	168	604	168	604	168	149
135°	200	469	200	469	200	154
145°	232	380	232	380	232	145
155°	262	328	262	328	262	120
165°	282	305	282	305	282	80
175°	294	296	294	296	294	28
180°	294	294	294	294	294	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1725.0	1725.0	1734.7	1738.0	1738.0	1733.1	1728.2	1733.1	1747.6	1752.5	1750.9
5°	1718.5	1731.5	1749.3	1752.5	1755.8	1754.1	1750.9	1754.1	1770.3	1773.5	1775.2
7.5°	1705.6	1729.8	1752.5	1757.4	1762.2	1757.4	1755.8	1759.0	1775.2	1778.4	1778.4
10°	1689.4	1723.3	1749.3	1752.5	1757.4	1752.5	1752.5	1759.0	1775.2	1778.4	1780.0
12.5°	1666.7	1713.7	1738.0	1741.1	1747.6	1746.0	1744.4	1750.9	1767.0	1770.3	1770.3
15°	1640.8	1695.9	1718.5	1721.7	1733.1	1729.8	1729.8	1736.4	1754.1	1759.0	1757.4
17.5°	1605.3	1673.2	1699.1	1703.9	1712.1	1710.4	1712.1	1718.5	1734.7	1738.0	1739.5
20°	1564.8	1642.5	1673.2	1678.0	1686.2	1686.2	1686.2	1694.3	1710.4	1716.9	1716.9
22.5°	1509.7	1610.1	1642.5	1645.7	1655.4	1655.4	1658.6	1670.0	1684.5	1686.2	1686.2
25°	1445.0	1574.5	1602.0	1611.8	1621.4	1626.3	1631.2	1637.6	1642.5	1640.8	1642.5
27.5°	1377.1	1529.1	1564.8	1571.2	1584.2	1589.1	1595.5	1597.1	1598.8	1603.6	1600.4
30°	1301.0	1466.0	1519.5	1526.0	1547.0	1550.2	1543.8	1547.0	1555.1	1558.3	1561.6
32.5°	1215.2	1372.2	1472.5	1487.1	1506.6	1496.8	1495.2	1500.1	1513.0	1513.0	1516.2
35°	1098.8	1299.4	1428.8	1441.8	1456.4	1445.0	1451.5	1453.1	1461.3	1466.0	1464.5
37.5°	970.9	1236.3	1383.5	1393.3	1404.6	1390.0	1399.8	1404.6	1411.1	1407.8	1407.8
40°	857.6	1137.6	1330.2	1336.7	1346.3	1335.0	1344.7	1347.9	1351.2	1347.9	1346.3
42.5°	773.5	1029.2	1273.6	1281.6	1275.1	1283.2	1286.5	1293.0	1288.1	1281.6	1281.6
45°	708.7	1000.1	1212.0	1221.7	1212.0	1225.0	1229.9	1229.9	1215.2	1212.0	1210.4
47.5°	687.7	941.8	1150.5	1150.5	1145.7	1161.9	1169.9	1158.6	1144.1	1139.2	1139.2
50°	686.1	877.0	1066.3	1059.9	1082.6	1102.0	1093.9	1082.6	1071.2	1053.4	1053.4
52.5°	623.0	797.8	958.0	982.2	1017.9	1029.2	1016.2	1004.9	985.5	977.4	970.9
55°	577.7	715.2	859.2	907.8	945.0	959.5	935.3	924.0	894.9	890.0	886.8
57.5°	568.0	595.5	768.7	830.2	875.4	873.9	859.2	838.2	813.9	809.1	807.5
60°	521.0	430.5	671.5	744.4	791.2	786.5	773.5	754.1	731.4	728.1	725.0
62.5°	472.6	312.3	561.5	644.0	710.4	708.7	697.4	668.3	652.1	644.0	637.6
65°	401.3	262.2	399.7	535.7	631.1	634.3	610.1	589.0	571.2	561.5	559.9
67.5°	305.8	213.6	270.2	446.6	555.1	551.8	521.0	511.4	488.7	483.8	474.2
70°	226.5	142.4	187.7	362.5	480.6	472.6	448.3	436.9	415.8	404.6	398.1
72.5°	187.7	114.9	137.5	281.6	404.6	394.8	373.8	360.9	343.1	333.3	326.8
75°	152.1	121.3	105.2	208.7	328.5	322.0	302.6	289.6	275.1	262.2	263.7
77.5°	111.7	113.3	84.1	153.8	260.6	250.8	239.5	223.3	216.9	203.9	203.9
80°	84.1	89.0	63.1	105.2	187.7	187.7	178.0	166.7	155.4	148.9	148.9
82.5°	56.6	56.6	46.9	66.4	127.8	123.0	116.5	113.3	106.8	103.6	103.6
85°	25.9	32.3	29.2	40.4	69.6	72.9	72.9	69.6	68.0	64.7	66.4
87.5°	8.1	14.5	17.8	22.7	35.6	37.2	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	7.5	7.5
92.5°	7.8	21.2	34.7	38.1	53.5	74.0	84.3	73.9	53.1	37.5	36.0
95°	18.9	43.4	68.0	74.1	131.6	208.2	246.5	219.9	166.9	127.1	122.6
97.5°	32.7	54.3	75.9	81.4	177.2	305.0	368.9	352.2	318.6	293.5	284.8
100°	43.3	62.9	82.6	87.5	193.8	335.6	406.6	407.8	410.3	412.1	401.9
102.5°	52.4	70.8	89.0	93.6	201.5	345.3	417.2	438.6	481.3	513.4	504.6
105°	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.8	631.7	627.0
107.5°	83.6	98.0	112.4	116.1	208.2	331.0	392.4	459.3	592.9	693.1	694.3
110°	94.2	107.2	120.3	123.5	206.6	317.4	372.7	447.4	596.9	708.9	713.8



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	104.6	117.0	129.5	132.6	206.6	305.4	354.7	431.2	584.1	698.9	706.4
115°	120.4	131.9	143.3	146.2	208.5	291.6	333.2	406.9	554.2	664.7	675.2
117.5°	136.0	146.4	156.8	159.4	212.5	283.1	318.5	385.0	517.9	617.6	629.2
120°	145.1	154.9	164.7	167.1	215.6	280.3	312.6	373.3	494.8	586.0	597.2
122.5°	153.9	163.9	173.7	176.2	220.1	278.7	308.0	362.7	472.2	554.2	565.3
125°	167.5	176.5	185.5	187.8	226.2	277.5	303.1	349.6	442.5	512.2	522.5
127.5°	178.5	187.7	196.8	199.1	232.4	276.8	299.0	338.9	418.6	478.5	487.1
130°	184.4	194.3	204.1	206.5	236.8	277.2	297.4	332.9	404.0	457.3	465.2
132.5°	190.6	200.4	210.2	212.7	240.5	277.5	296.0	327.8	391.4	439.1	446.3
135°	199.7	208.5	217.5	219.7	244.4	277.2	293.6	320.2	373.5	413.5	419.6
137.5°	208.9	217.7	226.6	228.8	250.3	278.9	293.3	315.7	360.8	394.5	399.6
140°	216.6	224.7	232.9	234.9	253.9	279.2	291.8	311.3	350.3	379.4	384.1
142.5°	222.5	230.1	237.5	239.4	256.9	280.2	291.8	308.9	343.1	368.7	372.7
145°	231.6	238.1	244.7	246.3	260.8	280.3	289.9	303.9	331.8	352.7	355.8
147.5°	240.7	247.1	253.4	255.0	266.7	282.2	289.9	300.9	322.9	339.4	341.9
150°	246.5	252.2	258.1	259.5	269.6	283.1	289.9	299.2	317.7	331.7	333.8
152.5°	252.6	257.0	261.4	262.5	271.7	283.8	289.9	297.9	313.7	325.6	327.1
155°	261.7	265.0	268.2	269.0	276.0	285.2	289.9	296.2	308.9	318.3	319.4
157.5°	268.4	271.6	274.7	275.5	280.3	286.7	289.9	294.8	304.6	312.0	312.8
160°	273.0	275.4	277.9	278.4	282.3	287.3	289.9	294.1	302.5	308.9	309.2
162.5°	277.5	279.3	281.1	281.6	284.4	288.1	289.9	293.5	300.5	305.9	306.3
165°	282.5	284.1	285.8	286.2	287.4	289.1	289.9	292.4	297.5	301.3	301.7
167.5°	287.0	287.7	288.5	288.7	289.7	291.2	291.8	293.6	296.9	299.4	299.6
170°	289.9	290.7	291.4	291.6	291.7	291.8	291.8	293.6	296.9	299.4	299.4
172.5°	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.2	295.8	297.8	297.6
175°	293.6	293.6	293.6	293.6	293.1	292.2	291.8	292.7	294.4	295.7	295.7
177.5°	293.6	293.6	293.6	293.6	293.2	292.6	292.3	293.0	294.3	295.3	295.1
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1754.1	1749.3	1754.1	1750.9	1752.5	1747.6	1733.1	1728.2	1733.1	1738.0	1738.0
5°	1775.2	1771.9	1775.2	1775.2	1773.5	1770.3	1754.1	1750.9	1754.1	1755.8	1752.5
7.5°	1781.6	1776.8	1781.6	1778.4	1778.4	1775.2	1759.0	1755.8	1757.4	1762.2	1757.4
10°	1781.6	1776.8	1781.6	1780.0	1778.4	1775.2	1759.0	1752.5	1752.5	1757.4	1752.5
12.5°	1773.5	1770.3	1773.5	1770.3	1770.3	1767.0	1750.9	1744.4	1746.0	1747.6	1741.1
15°	1760.5	1755.8	1760.5	1757.4	1759.0	1754.1	1736.4	1729.8	1729.8	1733.1	1721.7
17.5°	1741.1	1734.7	1741.1	1739.5	1738.0	1734.7	1718.5	1712.1	1710.4	1712.1	1703.9
20°	1718.5	1713.7	1718.5	1716.9	1716.9	1710.4	1694.3	1686.2	1686.2	1686.2	1678.0
22.5°	1682.9	1678.0	1682.9	1686.2	1686.2	1684.5	1670.0	1658.6	1655.4	1655.4	1645.7
25°	1642.5	1637.6	1642.5	1642.5	1640.8	1642.5	1637.6	1631.2	1626.3	1621.4	1611.8
27.5°	1603.6	1600.4	1603.6	1600.4	1603.6	1598.8	1597.1	1595.5	1589.1	1584.2	1571.2
30°	1564.8	1561.6	1564.8	1561.6	1558.3	1555.1	1547.0	1543.8	1550.2	1547.0	1526.0
32.5°	1516.2	1513.0	1516.2	1516.2	1513.0	1513.0	1500.1	1495.2	1496.8	1506.6	1487.1
35°	1466.0	1461.3	1466.0	1464.5	1466.0	1461.3	1453.1	1451.5	1445.0	1456.4	1441.8
37.5°	1407.8	1402.9	1407.8	1407.8	1407.8	1411.1	1404.6	1399.8	1390.0	1404.6	1393.3
40°	1347.9	1341.4	1347.9	1346.3	1347.9	1351.2	1347.9	1344.7	1335.0	1346.3	1336.7
42.5°	1280.0	1278.3	1280.0	1281.6	1281.6	1288.1	1293.0	1286.5	1283.2	1275.1	1281.6
45°	1207.2	1203.9	1207.2	1210.4	1212.0	1215.2	1229.9	1229.9	1225.0	1212.0	1221.7
47.5°	1129.5	1121.4	1129.5	1139.2	1139.2	1144.1	1158.6	1169.9	1161.9	1145.7	1150.5
50°	1046.9	1048.6	1046.9	1053.4	1053.4	1071.2	1082.6	1093.9	1102.0	1082.6	1059.9
52.5°	966.0	964.4	966.0	970.9	977.4	985.5	1004.9	1016.2	1029.2	1017.9	982.2
55°	885.1	888.4	885.1	886.8	890.0	894.9	924.0	935.3	959.5	945.0	907.8
57.5°	804.3	799.4	804.3	807.5	809.1	813.9	838.2	859.2	873.9	875.4	830.2
60°	710.4	703.9	710.4	725.0	728.1	731.4	754.1	773.5	786.5	791.2	744.4
62.5°	627.8	616.6	627.8	637.6	644.0	652.1	668.3	697.4	708.7	710.4	644.0
65°	540.4	535.7	540.4	559.9	561.5	571.2	589.0	610.1	634.3	631.1	535.7
67.5°	461.2	461.2	461.2	474.2	483.8	488.7	511.4	521.0	551.8	555.1	446.6
70°	388.4	386.8	388.4	398.1	404.6	415.8	436.9	448.3	472.6	480.6	362.5
72.5°	318.8	317.2	318.8	326.8	333.3	343.1	360.9	373.8	394.8	404.6	281.6
75°	257.3	254.1	257.3	263.7	262.2	275.1	289.6	302.6	322.0	328.5	208.7
77.5°	197.5	197.5	197.5	203.9	203.9	216.9	223.3	239.5	250.8	260.6	153.8
80°	147.3	145.6	147.3	148.9	148.9	155.4	166.7	178.0	187.7	187.7	105.2
82.5°	103.6	100.3	103.6	103.6	103.6	106.8	113.3	116.5	123.0	127.8	66.4
85°	64.7	64.7	64.7	66.4	64.7	68.0	69.6	72.9	72.9	69.6	40.4
87.5°	42.1	40.4	42.1	40.4	40.4	38.8	38.8	38.8	37.2	35.6	22.7
90°	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9	8.7	5.5
92.5°	30.0	24.0	30.0	36.0	37.5	53.1	73.9	84.3	74.0	53.5	38.1
95°	104.5	86.5	104.5	122.6	127.1	166.9	219.9	246.5	208.2	131.6	74.1
97.5°	250.5	216.2	250.5	284.8	293.5	318.6	352.2	368.9	305.0	177.2	81.4
100°	361.0	320.0	361.0	401.9	412.1	410.3	407.8	406.6	335.6	193.8	87.5
102.5°	469.6	434.6	469.6	504.6	513.4	481.3	438.6	417.2	345.3	201.5	93.6
105°	608.1	589.3	608.1	627.0	631.7	559.8	463.9	416.0	346.4	207.1	102.7
107.5°	698.8	703.4	698.8	694.3	693.1	592.9	459.3	392.4	331.0	208.2	116.1
110°	733.4	753.0	733.4	713.8	708.9	596.9	447.4	372.7	317.4	206.6	123.5



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	736.6	766.7	736.6	706.4	698.9	584.1	431.2	354.7	305.4	206.6	132.6
115°	717.0	758.7	717.0	675.2	664.7	554.2	406.9	333.2	291.6	208.5	146.2
117.5°	675.6	721.9	675.6	629.2	617.6	517.9	385.0	318.5	283.1	212.5	159.4
120°	642.2	687.2	642.2	597.2	586.0	494.8	373.3	312.6	280.3	215.6	167.1
122.5°	609.8	654.1	609.8	565.3	554.2	472.2	362.7	308.0	278.7	220.1	176.2
125°	563.3	604.2	563.3	522.5	512.2	442.5	349.6	303.1	277.5	226.2	187.8
127.5°	521.6	556.1	521.6	487.1	478.5	418.6	338.9	299.0	276.8	232.4	199.1
130°	497.1	529.0	497.1	465.2	457.3	404.0	332.9	297.4	277.2	236.8	206.5
132.5°	474.7	503.3	474.7	446.3	439.1	391.4	327.8	296.0	277.5	240.5	212.7
135°	444.2	468.8	444.2	419.6	413.5	373.5	320.2	293.6	277.2	244.4	219.7
137.5°	419.7	439.8	419.7	399.6	394.5	360.8	315.7	293.3	278.9	250.3	228.8
140°	402.9	421.8	402.9	384.1	379.4	350.3	311.3	291.8	279.2	253.9	234.9
142.5°	389.0	405.2	389.0	372.7	368.7	343.1	308.9	291.8	280.2	256.9	239.4
145°	368.1	380.4	368.1	355.8	352.7	331.8	303.9	289.9	280.3	260.8	246.3
147.5°	352.1	362.2	352.1	341.9	339.4	322.9	300.9	289.9	282.2	266.7	255.0
150°	342.0	350.3	342.0	333.8	331.7	317.7	299.2	289.9	283.1	269.6	259.5
152.5°	333.3	339.5	333.3	327.1	325.6	313.7	297.9	289.9	283.8	271.7	262.5
155°	323.5	327.6	323.5	319.4	318.3	308.9	296.2	289.9	285.2	276.0	269.0
157.5°	315.6	318.5	315.6	312.8	312.0	304.6	294.8	289.9	286.7	280.3	275.5
160°	311.0	312.6	311.0	309.2	308.9	302.5	294.1	289.9	287.3	282.3	278.4
162.5°	307.9	309.4	307.9	306.3	305.9	300.5	293.5	289.9	288.1	284.4	281.6
165°	303.4	305.1	303.4	301.7	301.3	297.5	292.4	289.9	289.1	287.4	286.2
167.5°	300.2	300.9	300.2	299.6	299.4	296.9	293.6	291.8	291.2	289.7	288.7
170°	299.4	299.4	299.4	299.4	299.4	296.9	293.6	291.8	291.8	291.7	291.6
172.5°	297.0	296.4	297.0	297.6	297.8	295.8	293.2	291.8	291.8	291.8	291.8
175°	295.7	295.7	295.7	295.7	295.7	294.4	292.7	291.8	292.2	293.1	293.6
177.5°	294.4	293.6	294.4	295.1	295.3	294.3	293.0	292.3	292.6	293.2	293.6
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1734.7	1725.0	1725.0	1708.8	1702.3	1697.4	1689.4	1665.1	1658.6	1652.2	1661.9
5°	1749.3	1731.5	1718.5	1689.4	1665.1	1655.4	1624.7	1566.4	1527.6	1498.5	1482.3
7.5°	1752.5	1729.8	1705.6	1660.2	1602.0	1576.1	1482.3	1375.5	1346.3	1320.4	1304.2
10°	1749.3	1723.3	1689.4	1621.4	1483.9	1438.6	1344.7	1275.1	1257.3	1252.5	1257.3
12.5°	1738.0	1713.7	1666.7	1553.4	1360.9	1330.2	1275.1	1234.6	1231.5	1239.5	1283.2
15°	1718.5	1695.9	1640.8	1462.9	1293.0	1270.3	1231.5	1216.9	1234.6	1291.3	1422.4
17.5°	1699.1	1673.2	1605.3	1373.9	1241.1	1225.0	1197.4	1226.6	1326.9	1402.9	1446.6
20°	1673.2	1642.5	1564.8	1309.1	1203.9	1189.4	1176.4	1307.5	1383.5	1411.1	1435.3
22.5°	1642.5	1610.1	1509.7	1263.8	1165.1	1153.7	1161.9	1352.8	1383.5	1402.9	1424.0
25°	1602.0	1574.5	1445.0	1228.2	1134.3	1121.4	1152.1	1347.9	1365.7	1370.6	1412.7
27.5°	1564.8	1529.1	1377.1	1195.8	1097.1	1092.3	1160.2	1326.9	1339.8	1344.7	1390.0
30°	1519.5	1466.0	1301.0	1161.9	1058.3	1056.7	1161.9	1301.0	1297.7	1310.7	1356.1
32.5°	1472.5	1372.2	1215.2	1119.8	1021.1	1019.5	1150.5	1262.2	1258.9	1276.7	1310.7
35°	1428.8	1299.4	1098.8	1071.2	974.2	975.8	1123.0	1216.9	1218.5	1234.6	1255.7
37.5°	1383.5	1236.3	970.9	1017.9	928.8	928.8	1085.8	1174.8	1171.5	1176.4	1205.6
40°	1330.2	1137.6	857.6	948.3	886.8	881.9	1040.5	1129.5	1118.2	1116.5	1157.0
42.5°	1273.6	1029.2	773.5	856.0	838.2	831.8	985.5	1074.5	1053.4	1058.3	1110.0
45°	1212.0	1000.1	708.7	723.4	788.1	783.2	925.6	1011.4	996.8	1009.7	1063.2
47.5°	1150.5	941.8	687.7	600.4	734.6	733.0	859.2	949.9	941.8	954.8	1011.4
50°	1066.3	877.0	686.1	514.6	674.8	681.3	780.0	890.0	890.0	901.3	961.2
52.5°	958.0	797.8	623.0	466.0	605.2	624.6	710.4	838.2	841.4	852.8	906.2
55°	859.2	715.2	577.7	428.9	522.7	564.7	642.5	784.8	791.2	802.6	851.2
57.5°	768.7	595.5	568.0	385.2	446.6	487.1	582.5	733.0	736.3	746.0	792.9
60°	671.5	430.5	521.0	338.2	380.3	411.0	527.5	671.5	682.9	689.3	729.8
62.5°	561.5	312.3	472.6	305.8	347.9	354.4	482.2	613.3	627.8	632.7	657.0
65°	399.7	262.2	401.3	278.3	313.9	315.5	433.6	553.4	566.4	574.5	592.3
67.5°	270.2	213.6	305.8	252.4	288.0	289.6	386.8	483.8	501.6	508.1	519.4
70°	187.7	142.4	226.5	224.9	258.9	262.2	336.6	420.7	436.9	441.8	448.3
72.5°	137.5	114.9	187.7	202.2	228.1	231.4	284.8	349.5	365.7	370.5	373.8
75°	105.2	121.3	152.1	176.4	194.2	195.8	233.0	284.8	296.1	299.4	301.0
77.5°	84.1	113.3	111.7	142.4	158.5	155.4	182.8	220.1	229.8	229.8	229.8
80°	63.1	89.0	84.1	101.9	116.5	113.3	131.1	157.0	160.2	163.4	161.8
82.5°	46.9	56.6	56.6	64.7	77.6	74.4	87.4	101.9	101.9	101.9	105.2
85°	29.2	32.3	25.9	33.9	43.7	42.1	48.6	55.0	56.6	56.6	53.4
87.5°	17.8	14.5	8.1	12.9	19.4	19.4	22.7	24.3	22.7	22.7	22.7
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	38.1	53.5	74.0	84.3	73.9	53.1
95°	68.0	43.4	18.9	43.4	68.0	74.1	131.6	208.2	246.5	219.9	166.9
97.5°	75.9	54.3	32.7	54.3	75.9	81.4	177.2	305.0	368.9	352.2	318.6
100°	82.6	62.9	43.3	62.9	82.6	87.5	193.8	335.6	406.6	407.8	410.3
102.5°	89.0	70.8	52.4	70.8	89.0	93.6	201.5	345.3	417.2	438.6	481.3
105°	98.8	83.3	67.8	83.3	98.8	102.7	207.1	346.4	416.0	463.9	559.8
107.5°	112.4	98.0	83.6	98.0	112.4	116.1	208.2	331.0	392.4	459.3	592.9
110°	120.3	107.2	94.2	107.2	120.3	123.5	206.6	317.4	372.7	447.4	596.9



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	129.5	117.0	104.6	117.0	129.5	132.6	206.6	305.4	354.7	431.2	584.1
115°	143.3	131.9	120.4	131.9	143.3	146.2	208.5	291.6	333.2	406.9	554.2
117.5°	156.8	146.4	136.0	146.4	156.8	159.4	212.5	283.1	318.5	385.0	517.9
120°	164.7	154.9	145.1	154.9	164.7	167.1	215.6	280.3	312.6	373.3	494.8
122.5°	173.7	163.9	153.9	163.9	173.7	176.2	220.1	278.7	308.0	362.7	472.2
125°	185.5	176.5	167.5	176.5	185.5	187.8	226.2	277.5	303.1	349.6	442.5
127.5°	196.8	187.7	178.5	187.7	196.8	199.1	232.4	276.8	299.0	338.9	418.6
130°	204.1	194.3	184.4	194.3	204.1	206.5	236.8	277.2	297.4	332.9	404.0
132.5°	210.2	200.4	190.6	200.4	210.2	212.7	240.5	277.5	296.0	327.8	391.4
135°	217.5	208.5	199.7	208.5	217.5	219.7	244.4	277.2	293.6	320.2	373.5
137.5°	226.6	217.7	208.9	217.7	226.6	228.8	250.3	278.9	293.3	315.7	360.8
140°	232.9	224.7	216.6	224.7	232.9	234.9	253.9	279.2	291.8	311.3	350.3
142.5°	237.5	230.1	222.5	230.1	237.5	239.4	256.9	280.2	291.8	308.9	343.1
145°	244.7	238.1	231.6	238.1	244.7	246.3	260.8	280.3	289.9	303.9	331.8
147.5°	253.4	247.1	240.7	247.1	253.4	255.0	266.7	282.2	289.9	300.9	322.9
150°	258.1	252.2	246.5	252.2	258.1	259.5	269.6	283.1	289.9	299.2	317.7
152.5°	261.4	257.0	252.6	257.0	261.4	262.5	271.7	283.8	289.9	297.9	313.7
155°	268.2	265.0	261.7	265.0	268.2	269.0	276.0	285.2	289.9	296.2	308.9
157.5°	274.7	271.6	268.4	271.6	274.7	275.5	280.3	286.7	289.9	294.8	304.6
160°	277.9	275.4	273.0	275.4	277.9	278.4	282.3	287.3	289.9	294.1	302.5
162.5°	281.1	279.3	277.5	279.3	281.1	281.6	284.4	288.1	289.9	293.5	300.5
165°	285.8	284.1	282.5	284.1	285.8	286.2	287.4	289.1	289.9	292.4	297.5
167.5°	288.5	287.7	287.0	287.7	288.5	288.7	289.7	291.2	291.8	293.6	296.9
170°	291.4	290.7	289.9	290.7	291.4	291.6	291.7	291.8	291.8	293.6	296.9
172.5°	291.8	291.6	291.4	291.6	291.8	291.8	291.8	291.8	291.8	293.2	295.8
175°	293.6	293.6	293.6	293.6	293.6	293.6	293.1	292.2	291.8	292.7	294.4
177.5°	293.6	293.6	293.6	293.6	293.6	293.6	293.2	292.6	292.3	293.0	294.3
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1650.6	1645.7	1652.2	1634.3	1652.2	1645.7	1650.6	1661.9	1652.2	1658.6	1665.1
5°	1448.2	1440.2	1414.3	1393.3	1414.3	1440.2	1448.2	1482.3	1498.5	1527.6	1566.4
7.5°	1294.6	1288.1	1281.6	1268.7	1281.6	1288.1	1294.6	1304.2	1320.4	1346.3	1375.5
10°	1260.5	1262.2	1271.9	1270.3	1271.9	1262.2	1260.5	1257.3	1252.5	1257.3	1275.1
12.5°	1347.9	1362.5	1415.9	1412.7	1415.9	1362.5	1347.9	1283.2	1239.5	1231.5	1234.6
15°	1448.2	1453.1	1464.5	1466.0	1464.5	1453.1	1448.2	1422.4	1291.3	1234.6	1216.9
17.5°	1458.0	1459.6	1467.7	1467.7	1467.7	1459.6	1458.0	1446.6	1402.9	1326.9	1226.6
20°	1449.9	1453.1	1469.3	1472.5	1469.3	1453.1	1449.9	1435.3	1411.1	1383.5	1307.5
22.5°	1446.6	1453.1	1466.0	1464.5	1466.0	1453.1	1446.6	1424.0	1402.9	1383.5	1352.8
25°	1430.5	1430.5	1432.1	1433.7	1432.1	1430.5	1430.5	1412.7	1370.6	1365.7	1347.9
27.5°	1396.5	1399.8	1409.4	1407.8	1409.4	1399.8	1396.5	1390.0	1344.7	1339.8	1326.9
30°	1365.7	1362.5	1354.4	1347.9	1354.4	1362.5	1365.7	1356.1	1310.7	1297.7	1301.0
32.5°	1314.0	1305.9	1297.7	1293.0	1297.7	1305.9	1314.0	1310.7	1276.7	1258.9	1262.2
35°	1252.5	1254.0	1252.5	1247.6	1252.5	1254.0	1252.5	1255.7	1234.6	1218.5	1216.9
37.5°	1208.8	1212.0	1210.4	1203.9	1210.4	1212.0	1208.8	1205.6	1176.4	1171.5	1174.8
40°	1163.5	1165.1	1163.5	1158.6	1163.5	1165.1	1163.5	1157.0	1116.5	1118.2	1129.5
42.5°	1119.8	1118.2	1113.3	1110.0	1113.3	1118.2	1119.8	1110.0	1058.3	1053.4	1074.5
45°	1069.6	1071.2	1061.6	1056.7	1061.6	1071.2	1069.6	1063.2	1009.7	996.8	1011.4
47.5°	1019.5	1019.5	1011.4	1006.5	1011.4	1019.5	1019.5	1011.4	954.8	941.8	949.9
50°	966.0	964.4	953.1	951.5	953.1	964.4	966.0	961.2	901.3	890.0	890.0
52.5°	904.6	904.6	906.2	909.4	906.2	904.6	904.6	906.2	852.8	841.4	838.2
55°	851.2	852.8	864.1	867.4	864.1	852.8	851.2	851.2	802.6	791.2	784.8
57.5°	796.1	796.1	804.3	804.3	804.3	796.1	796.1	792.9	746.0	736.3	733.0
60°	733.0	736.3	742.8	741.1	742.8	736.3	733.0	729.8	689.3	682.9	671.5
62.5°	666.7	669.9	671.5	668.3	671.5	669.9	666.7	657.0	632.7	627.8	613.3
65°	597.1	600.4	601.9	598.8	601.9	600.4	597.1	592.3	574.5	566.4	553.4
67.5°	525.9	524.3	522.7	529.2	522.7	524.3	525.9	519.4	508.1	501.6	483.8
70°	453.0	453.0	451.5	454.7	451.5	453.0	453.0	448.3	441.8	436.9	420.7
72.5°	375.4	373.8	380.3	375.4	380.3	373.8	375.4	373.8	370.5	365.7	349.5
75°	299.4	302.6	299.4	304.3	299.4	302.6	299.4	301.0	299.4	296.1	284.8
77.5°	228.1	231.4	228.1	228.1	228.1	231.4	228.1	229.8	229.8	229.8	220.1
80°	161.8	160.2	160.2	158.5	160.2	160.2	161.8	161.8	163.4	160.2	157.0
82.5°	103.6	101.9	101.9	105.2	101.9	101.9	103.6	105.2	101.9	101.9	101.9
85°	56.6	58.2	55.0	55.0	55.0	58.2	56.6	53.4	56.6	56.6	55.0
87.5°	21.0	19.4	19.4	19.4	19.4	19.4	21.0	22.7	22.7	22.7	24.3
90°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	9.9	13.3	15.0	12.9
92.5°	37.5	36.0	30.0	24.0	30.0	36.0	37.5	53.1	73.9	84.3	74.0
95°	127.1	122.6	104.5	86.5	104.5	122.6	127.1	166.9	219.9	246.5	208.2
97.5°	293.5	284.8	250.5	216.2	250.5	284.8	293.5	318.6	352.2	368.9	305.0
100°	412.1	401.9	361.0	320.0	361.0	401.9	412.1	410.3	407.8	406.6	335.6
102.5°	513.4	504.6	469.6	434.6	469.6	504.6	513.4	481.3	438.6	417.2	345.3
105°	631.7	627.0	608.1	589.3	608.1	627.0	631.7	559.8	463.9	416.0	346.4
107.5°	693.1	694.3	698.8	703.4	698.8	694.3	693.1	592.9	459.3	392.4	331.0
110°	708.9	713.8	733.4	753.0	733.4	713.8	708.9	596.9	447.4	372.7	317.4



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	698.9	706.4	736.6	766.7	736.6	706.4	698.9	584.1	431.2	354.7	305.4
115°	664.7	675.2	717.0	758.7	717.0	675.2	664.7	554.2	406.9	333.2	291.6
117.5°	617.6	629.2	675.6	721.9	675.6	629.2	617.6	517.9	385.0	318.5	283.1
120°	586.0	597.2	642.2	687.2	642.2	597.2	586.0	494.8	373.3	312.6	280.3
122.5°	554.2	565.3	609.8	654.1	609.8	565.3	554.2	472.2	362.7	308.0	278.7
125°	512.2	522.5	563.3	604.2	563.3	522.5	512.2	442.5	349.6	303.1	277.5
127.5°	478.5	487.1	521.6	556.1	521.6	487.1	478.5	418.6	338.9	299.0	276.8
130°	457.3	465.2	497.1	529.0	497.1	465.2	457.3	404.0	332.9	297.4	277.2
132.5°	439.1	446.3	474.7	503.3	474.7	446.3	439.1	391.4	327.8	296.0	277.5
135°	413.5	419.6	444.2	468.8	444.2	419.6	413.5	373.5	320.2	293.6	277.2
137.5°	394.5	399.6	419.7	439.8	419.7	399.6	394.5	360.8	315.7	293.3	278.9
140°	379.4	384.1	402.9	421.8	402.9	384.1	379.4	350.3	311.3	291.8	279.2
142.5°	368.7	372.7	389.0	405.2	389.0	372.7	368.7	343.1	308.9	291.8	280.2
145°	352.7	355.8	368.1	380.4	368.1	355.8	352.7	331.8	303.9	289.9	280.3
147.5°	339.4	341.9	352.1	362.2	352.1	341.9	339.4	322.9	300.9	289.9	282.2
150°	331.7	333.8	342.0	350.3	342.0	333.8	331.7	317.7	299.2	289.9	283.1
152.5°	325.6	327.1	333.3	339.5	333.3	327.1	325.6	313.7	297.9	289.9	283.8
155°	318.3	319.4	323.5	327.6	323.5	319.4	318.3	308.9	296.2	289.9	285.2
157.5°	312.0	312.8	315.6	318.5	315.6	312.8	312.0	304.6	294.8	289.9	286.7
160°	308.9	309.2	311.0	312.6	311.0	309.2	308.9	302.5	294.1	289.9	287.3
162.5°	305.9	306.3	307.9	309.4	307.9	306.3	305.9	300.5	293.5	289.9	288.1
165°	301.3	301.7	303.4	305.1	303.4	301.7	301.3	297.5	292.4	289.9	289.1
167.5°	299.4	299.6	300.2	300.9	300.2	299.6	299.4	296.9	293.6	291.8	291.2
170°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	296.9	293.6	291.8	291.8
172.5°	297.8	297.6	297.0	296.4	297.0	297.6	297.8	295.8	293.2	291.8	291.8
175°	295.7	295.7	295.7	295.7	295.7	295.7	295.7	294.4	292.7	291.8	292.2
177.5°	295.3	295.1	294.4	293.6	294.4	295.1	295.3	294.3	293.0	292.3	292.6
180°	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1710.4	1710.4	1710.4	1710.4	1710.4
2.5°	1689.4	1697.4	1702.3	1708.8	1725.0
5°	1624.7	1655.4	1665.1	1689.4	1718.5
7.5°	1482.3	1576.1	1602.0	1660.2	1705.6
10°	1344.7	1438.6	1483.9	1621.4	1689.4
12.5°	1275.1	1330.2	1360.9	1553.4	1666.7
15°	1231.5	1270.3	1293.0	1462.9	1640.8
17.5°	1197.4	1225.0	1241.1	1373.9	1605.3
20°	1176.4	1189.4	1203.9	1309.1	1564.8
22.5°	1161.9	1153.7	1165.1	1263.8	1509.7
25°	1152.1	1121.4	1134.3	1228.2	1445.0
27.5°	1160.2	1092.3	1097.1	1195.8	1377.1
30°	1161.9	1056.7	1058.3	1161.9	1301.0
32.5°	1150.5	1019.5	1021.1	1119.8	1215.2
35°	1123.0	975.8	974.2	1071.2	1098.8
37.5°	1085.8	928.8	928.8	1017.9	970.9
40°	1040.5	881.9	886.8	948.3	857.6
42.5°	985.5	831.8	838.2	856.0	773.5
45°	925.6	783.2	788.1	723.4	708.7
47.5°	859.2	733.0	734.6	600.4	687.7
50°	780.0	681.3	674.8	514.6	686.1
52.5°	710.4	624.6	605.2	466.0	623.0
55°	642.5	564.7	522.7	428.9	577.7
57.5°	582.5	487.1	446.6	385.2	568.0
60°	527.5	411.0	380.3	338.2	521.0
62.5°	482.2	354.4	347.9	305.8	472.6
65°	433.6	315.5	313.9	278.3	401.3
67.5°	386.8	289.6	288.0	252.4	305.8
70°	336.6	262.2	258.9	224.9	226.5
72.5°	284.8	231.4	228.1	202.2	187.7
75°	233.0	195.8	194.2	176.4	152.1
77.5°	182.8	155.4	158.5	142.4	111.7
80°	131.1	113.3	116.5	101.9	84.1
82.5°	87.4	74.4	77.6	64.7	56.6
85°	48.6	42.1	43.7	33.9	25.9
87.5°	22.7	19.4	19.4	12.9	8.1
90°	8.7	5.5	5.2	3.5	2.0
92.5°	53.5	38.1	34.7	21.2	7.8
95°	131.6	74.1	68.0	43.4	18.9
97.5°	177.2	81.4	75.9	54.3	32.7
100°	193.8	87.5	82.6	62.9	43.3
102.5°	201.5	93.6	89.0	70.8	52.4
105°	207.1	102.7	98.8	83.3	67.8
107.5°	208.2	116.1	112.4	98.0	83.6
110°	206.6	123.5	120.3	107.2	94.2



TEST NUMBER: P934536

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	206.6	132.6	129.5	117.0	104.6
115°	208.5	146.2	143.3	131.9	120.4
117.5°	212.5	159.4	156.8	146.4	136.0
120°	215.6	167.1	164.7	154.9	145.1
122.5°	220.1	176.2	173.7	163.9	153.9
125°	226.2	187.8	185.5	176.5	167.5
127.5°	232.4	199.1	196.8	187.7	178.5
130°	236.8	206.5	204.1	194.3	184.4
132.5°	240.5	212.7	210.2	200.4	190.6
135°	244.4	219.7	217.5	208.5	199.7
137.5°	250.3	228.8	226.6	217.7	208.9
140°	253.9	234.9	232.9	224.7	216.6
142.5°	256.9	239.4	237.5	230.1	222.5
145°	260.8	246.3	244.7	238.1	231.6
147.5°	266.7	255.0	253.4	247.1	240.7
150°	269.6	259.5	258.1	252.2	246.5
152.5°	271.7	262.5	261.4	257.0	252.6
155°	276.0	269.0	268.2	265.0	261.7
157.5°	280.3	275.5	274.7	271.6	268.4
160°	282.3	278.4	277.9	275.4	273.0
162.5°	284.4	281.6	281.1	279.3	277.5
165°	287.4	286.2	285.8	284.1	282.5
167.5°	289.7	288.7	288.5	287.7	287.0
170°	291.7	291.6	291.4	290.7	289.9
172.5°	291.8	291.8	291.8	291.6	291.4
175°	293.1	293.6	293.6	293.6	293.6
177.5°	293.2	293.6	293.6	293.6	293.6
180°	293.6	293.6	293.6	293.6	293.6



TEST NUMBER: P934536
 CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-6500K

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	16.07	17.14	16.83	17.93	18.88	18.86	19.94	19.63	20.72	21.68
	3H	16.56	17.52	17.34	18.32	19.30	20.21	21.18	20.99	21.98	22.96
	4H	16.76	17.67	17.56	18.48	19.47	20.66	21.57	21.46	22.38	23.37
	6H	16.89	17.73	17.70	18.54	19.55	20.95	21.79	21.76	22.60	23.61
	8H	16.90	17.70	17.72	18.53	19.54	21.03	21.83	21.85	22.66	23.67
	12H	16.88	17.64	17.70	18.46	19.50	21.07	21.83	21.89	22.66	23.69
4H	2H	17.12	18.03	17.92	18.83	19.83	19.30	20.21	20.10	21.02	22.01
	3H	18.16	18.92	18.97	19.76	20.77	20.82	21.57	21.63	22.41	23.43
	4H	18.45	19.14	19.27	19.98	21.02	21.35	22.04	22.17	22.87	23.91
	6H	18.59	19.18	19.43	20.04	21.09	21.72	22.31	22.56	23.17	24.22
	8H	18.60	19.15	19.44	20.01	21.07	21.82	22.38	22.67	23.24	24.30
	12H	18.57	19.08	19.44	19.95	21.02	21.88	22.39	22.75	23.26	24.33
8H	4H	18.91	19.47	19.76	20.33	21.39	21.49	22.05	22.33	22.90	23.96
	6H	19.18	19.65	20.06	20.55	21.60	21.93	22.39	22.80	23.29	24.35
	8H	19.23	19.64	20.11	20.53	21.61	22.08	22.48	22.96	23.38	24.45
	12H	19.22	19.58	20.11	20.47	21.60	22.18	22.54	23.07	23.42	24.55
12H	4H	18.93	19.43	19.80	20.31	21.37	21.46	21.97	22.33	22.84	23.91
	6H	19.24	19.66	20.13	20.55	21.62	21.92	22.34	22.81	23.23	24.30
	8H	19.32	19.68	20.21	20.57	21.70	22.09	22.45	22.98	23.34	24.47