

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: P934533

Luminaire Tested: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934533
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-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

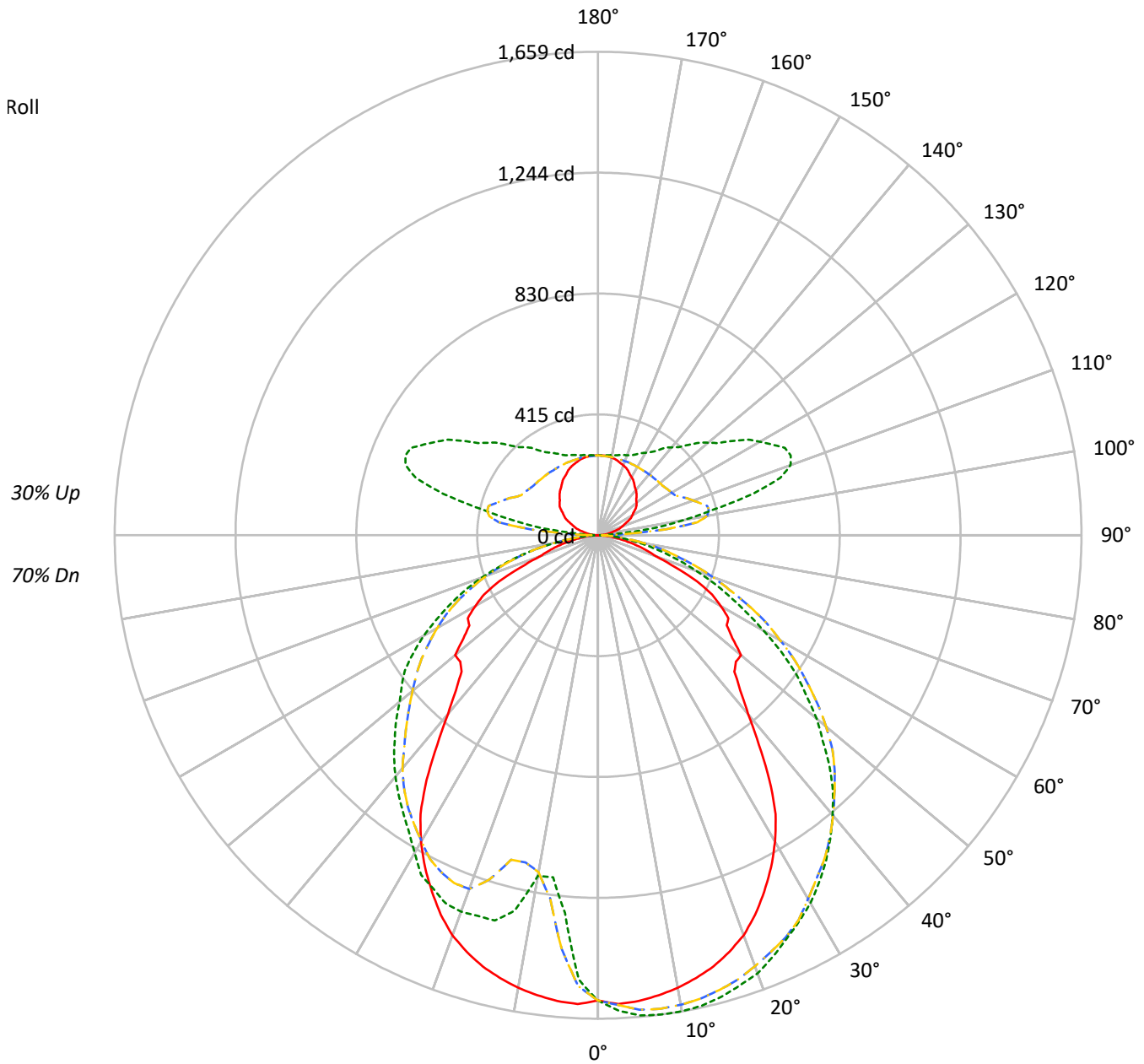
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5918.0 lumens
Efficiency: N/A
Efficacy: 105.7 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
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°	14816	14816	14816	14816
5°	14910	14956	14910	11760
10°	14795	14733	14795	10533
15°	14616	14413	14616	12036
20°	14295	14036	14295	12060
25°	13652	13484	13652	11805
30°	12828	13026	12828	11244
35°	11419	12447	11419	10628
40°	9499	11765	9499	10161
45°	8470	10967	8470	9625
50°	8979	10014	8979	9087
55°	8424	8989	8424	8777
60°	8652	7635	8652	8039
65°	7806	6311	7806	7056
70°	5369	5031	5369	5913
75°	4657	3719	4657	4452
80°	3679	2457	3679	2676
85°	2004	1301	2004	1105

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13008 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	2.4
10°-20°	409.2	6.9
20°-30°	632.6	10.7
30°-40°	755.2	12.8
40°-50°	759.6	12.8
50°-60°	660.9	11.2
60°-70°	468.6	7.9
70°-80°	247.9	4.2
80°-90°	62.8	1.1
90°-100°	133.6	2.3
100°-110°	351.3	5.9
110°-120°	364.3	6.2
120°-130°	292.2	4.9
130°-140°	229.3	3.9
140°-150°	176.0	3.0
150°-160°	126.7	2.1
160°-170°	77.5	1.3
170°-180°	26.2	0.4
0°-30°	1185.9	20.0
0°-40°	1941.1	32.8
0°-60°	3361.7	56.8
0°-90°	4141.0	70.0
90°-120°	849.2	14.3
90°-150°	1546.6	26.1
90°-180°	1777.0	30.0
0°-180°	5918.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1597	1597	1597	1597	1597	
5°	1604	1654	1604	1301	1604	152
15°	1532	1639	1532	1369	1532	431
25°	1349	1529	1349	1338	1349	619
35°	1026	1364	1026	1165	1026	635
45°	662	1124	662	986	662	530
55°	539	829	539	810	539	496
65°	375	500	375	559	375	358
75°	142	237	142	284	142	149
85°	24	60	24	51	24	33
90°	2	7	2	7	2	3
95°	18	81	18	81	18	20
105°	63	550	63	550	63	67
115°	112	708	112	708	112	111
125°	156	564	156	564	156	139
135°	186	438	186	438	186	144
145°	216	355	216	355	216	135
155°	244	306	244	306	244	112
165°	264	285	264	285	264	74
175°	274	276	274	276	274	26
180°	274	274	274	274	274	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1610.3	1610.3	1619.4	1622.4	1622.4	1617.9	1613.3	1617.9	1631.4	1636.0	1634.5
5°	1604.2	1616.4	1633.0	1636.0	1639.0	1637.5	1634.5	1637.5	1652.6	1655.6	1657.1
7.5°	1592.2	1614.8	1636.0	1640.5	1645.0	1640.5	1639.0	1642.1	1657.1	1660.2	1660.2
10°	1577.1	1608.8	1633.0	1636.0	1640.5	1636.0	1636.0	1642.1	1657.1	1660.2	1661.7
12.5°	1555.9	1599.8	1622.4	1625.4	1631.4	1629.9	1628.4	1634.5	1649.6	1652.6	1652.6
15°	1531.7	1583.2	1604.2	1607.3	1617.9	1614.8	1614.8	1620.9	1637.5	1642.1	1640.5
17.5°	1498.5	1562.0	1586.1	1590.6	1598.2	1596.7	1598.2	1604.2	1619.4	1622.4	1623.9
20°	1460.8	1533.3	1562.0	1566.5	1574.0	1574.0	1574.0	1581.6	1596.7	1602.8	1602.8
22.5°	1409.4	1503.1	1533.3	1536.3	1545.3	1545.3	1548.3	1559.0	1572.5	1574.0	1574.0
25°	1348.9	1469.8	1495.5	1504.6	1513.6	1518.2	1522.7	1528.7	1533.3	1531.7	1533.3
27.5°	1285.6	1427.5	1460.8	1466.8	1478.9	1483.4	1489.4	1490.9	1492.5	1497.0	1494.0
30°	1214.5	1368.6	1418.5	1424.5	1444.2	1447.1	1441.1	1444.2	1451.7	1454.7	1457.7
32.5°	1134.4	1281.0	1374.6	1388.2	1406.4	1397.3	1395.8	1400.3	1412.4	1412.4	1415.4
35°	1025.7	1213.0	1333.8	1346.0	1359.5	1348.9	1355.0	1356.5	1364.1	1368.6	1367.1
37.5°	906.4	1154.1	1291.5	1300.6	1311.2	1297.6	1306.7	1311.2	1317.2	1314.2	1314.2
40°	800.6	1062.0	1241.7	1247.8	1256.8	1246.3	1255.3	1258.3	1261.4	1258.3	1256.8
42.5°	722.0	960.7	1188.9	1196.4	1190.3	1197.9	1200.9	1207.0	1202.4	1196.4	1196.4
45°	661.6	933.6	1131.4	1140.5	1131.4	1143.5	1148.1	1148.1	1134.4	1131.4	1130.0
47.5°	642.0	879.1	1074.0	1074.0	1069.5	1084.6	1092.1	1081.6	1068.0	1063.5	1063.5
50°	640.5	818.7	995.4	989.5	1010.6	1028.7	1021.2	1010.6	1000.0	983.4	983.4
52.5°	581.5	744.7	894.3	916.9	950.2	960.7	948.7	938.1	919.9	912.4	906.4
55°	539.3	667.7	802.1	847.5	882.2	895.7	873.2	862.5	835.4	830.9	827.8
57.5°	530.2	555.9	717.6	775.0	817.2	815.8	802.1	782.5	759.8	755.3	753.8
60°	486.4	401.9	626.9	694.9	738.6	734.2	722.0	703.9	682.8	679.7	676.8
62.5°	441.1	291.5	524.1	601.2	663.1	661.6	651.1	623.9	608.8	601.2	595.2
65°	374.6	244.8	373.1	500.0	589.1	592.2	569.5	549.9	533.3	524.1	522.6
67.5°	285.5	199.4	252.3	416.9	518.2	515.1	486.4	477.4	456.2	451.7	442.7
70°	211.5	132.9	175.2	338.4	448.6	441.1	418.5	407.8	388.2	377.7	371.6
72.5°	175.2	107.3	128.4	262.9	377.7	368.6	348.9	336.9	320.3	311.2	305.1
75°	142.0	113.3	98.2	194.9	306.6	300.6	282.5	270.4	256.8	244.8	246.2
77.5°	104.3	105.8	78.6	143.5	243.2	234.1	223.6	208.4	202.4	190.3	190.3
80°	78.6	83.1	58.9	98.2	175.2	175.2	166.2	155.6	145.1	139.0	139.0
82.5°	52.8	52.8	43.8	61.9	119.3	114.8	108.7	105.8	99.7	96.7	96.7
85°	24.2	30.2	27.2	37.8	65.0	68.0	68.0	65.0	63.5	60.4	61.9
87.5°	7.6	13.6	16.6	21.2	33.2	34.7	36.2	36.2	36.2	37.8	37.8
90°	1.9	3.3	4.8	5.2	8.1	12.1	14.0	12.4	9.3	7.0	7.0
92.5°	7.3	19.8	32.4	35.5	49.9	69.1	78.7	69.0	49.5	35.0	33.6
95°	17.7	40.5	63.5	69.2	122.8	194.3	230.1	205.3	155.8	118.6	114.4
97.5°	30.5	50.7	70.9	76.0	165.4	284.7	344.4	328.8	297.4	273.9	265.9
100°	40.4	58.7	77.1	81.7	180.9	313.3	379.5	380.7	383.0	384.7	375.2
102.5°	48.9	66.1	83.1	87.4	188.1	322.3	389.5	409.4	449.3	479.2	471.0
105°	63.3	77.7	92.2	95.9	193.3	323.4	388.4	433.1	522.5	589.7	585.3
107.5°	78.0	91.5	105.0	108.4	194.3	309.0	366.3	428.7	553.5	647.1	648.1
110°	87.9	100.1	112.3	115.3	192.9	296.3	347.9	417.7	557.2	661.8	666.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.7	109.3	120.9	123.8	192.9	285.1	331.2	402.6	545.3	652.4	659.5
115°	112.4	123.1	133.8	136.5	194.7	272.2	311.1	379.8	517.4	620.5	630.3
117.5°	126.9	136.7	146.4	148.8	198.3	264.3	297.3	359.4	483.4	576.5	587.3
120°	135.4	144.6	153.7	156.0	201.3	261.6	291.8	348.5	461.9	547.0	557.5
122.5°	143.7	153.0	162.2	164.5	205.5	260.2	287.5	338.6	440.8	517.4	527.7
125°	156.4	164.8	173.2	175.3	211.2	259.0	283.0	326.3	413.1	478.2	487.7
127.5°	166.7	175.2	183.7	185.8	216.9	258.4	279.1	316.3	390.8	446.7	454.7
130°	172.2	181.4	190.5	192.8	221.1	258.8	277.6	310.8	377.1	426.9	434.3
132.5°	177.9	187.1	196.2	198.5	224.5	259.0	276.4	306.0	365.3	409.9	416.6
135°	186.4	194.7	203.1	205.1	228.2	258.8	274.1	298.9	348.7	386.0	391.7
137.5°	195.0	203.2	211.6	213.6	233.7	260.4	273.8	294.7	336.8	368.3	373.0
140°	202.2	209.8	217.4	219.3	237.0	260.6	272.4	290.6	327.0	354.2	358.6
142.5°	207.7	214.8	221.7	223.5	239.8	261.5	272.4	288.4	320.3	344.2	347.9
145°	216.2	222.3	228.4	229.9	243.5	261.6	270.6	283.7	309.7	329.3	332.1
147.5°	224.7	230.7	236.5	238.1	249.0	263.4	270.6	280.9	301.4	316.8	319.2
150°	230.1	235.5	240.9	242.3	251.7	264.3	270.6	279.3	296.6	309.6	311.6
152.5°	235.8	239.9	244.0	245.0	253.6	264.9	270.6	278.1	292.9	303.9	305.4
155°	244.3	247.3	250.4	251.1	257.6	266.3	270.6	276.5	288.3	297.2	298.1
157.5°	250.6	253.5	256.4	257.2	261.6	267.6	270.6	275.2	284.4	291.3	292.0
160°	254.8	257.1	259.4	259.9	263.5	268.2	270.6	274.6	282.4	288.3	288.7
162.5°	259.0	260.7	262.4	262.9	265.5	268.9	270.6	273.9	280.6	285.5	285.9
165°	263.7	265.2	266.8	267.2	268.3	269.8	270.6	273.0	277.7	281.3	281.6
167.5°	267.9	268.6	269.3	269.5	270.5	271.8	272.4	274.0	277.2	279.5	279.7
170°	270.6	271.4	272.1	272.2	272.3	272.4	272.4	274.0	277.2	279.5	279.5
172.5°	272.1	272.2	272.4	272.4	272.4	272.4	272.4	273.7	276.1	278.0	277.8
175°	274.1	274.1	274.1	274.1	273.6	272.8	272.4	273.2	274.8	276.0	276.0
177.5°	274.1	274.1	274.1	274.1	273.7	273.1	272.9	273.5	274.7	275.6	275.5
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1637.5	1633.0	1637.5	1634.5	1636.0	1631.4	1617.9	1613.3	1617.9	1622.4	1622.4
5°	1657.1	1654.1	1657.1	1657.1	1655.6	1652.6	1637.5	1634.5	1637.5	1639.0	1636.0
7.5°	1663.1	1658.7	1663.1	1660.2	1660.2	1657.1	1642.1	1639.0	1640.5	1645.0	1640.5
10°	1663.1	1658.7	1663.1	1661.7	1660.2	1657.1	1642.1	1636.0	1636.0	1640.5	1636.0
12.5°	1655.6	1652.6	1655.6	1652.6	1652.6	1649.6	1634.5	1628.4	1629.9	1631.4	1625.4
15°	1643.5	1639.0	1643.5	1640.5	1642.1	1637.5	1620.9	1614.8	1614.8	1617.9	1607.3
17.5°	1625.4	1619.4	1625.4	1623.9	1622.4	1619.4	1604.2	1598.2	1596.7	1598.2	1590.6
20°	1604.2	1599.8	1604.2	1602.8	1602.8	1596.7	1581.6	1574.0	1574.0	1574.0	1566.5
22.5°	1571.0	1566.5	1571.0	1574.0	1574.0	1572.5	1559.0	1548.3	1545.3	1545.3	1536.3
25°	1533.3	1528.7	1533.3	1533.3	1531.7	1533.3	1528.7	1522.7	1518.2	1513.6	1504.6
27.5°	1497.0	1494.0	1497.0	1494.0	1497.0	1492.5	1490.9	1489.4	1483.4	1478.9	1466.8
30°	1460.8	1457.7	1460.8	1457.7	1454.7	1451.7	1444.2	1441.1	1447.1	1444.2	1424.5
32.5°	1415.4	1412.4	1415.4	1415.4	1412.4	1412.4	1400.3	1395.8	1397.3	1406.4	1388.2
35°	1368.6	1364.1	1368.6	1367.1	1368.6	1364.1	1356.5	1355.0	1348.9	1359.5	1346.0
37.5°	1314.2	1309.7	1314.2	1314.2	1314.2	1317.2	1311.2	1306.7	1297.6	1311.2	1300.6
40°	1258.3	1252.3	1258.3	1256.8	1258.3	1261.4	1258.3	1255.3	1246.3	1256.8	1247.8
42.5°	1194.9	1193.3	1194.9	1196.4	1196.4	1202.4	1207.0	1200.9	1197.9	1190.3	1196.4
45°	1126.9	1123.9	1126.9	1130.0	1131.4	1134.4	1148.1	1148.1	1143.5	1131.4	1140.5
47.5°	1054.4	1046.9	1054.4	1063.5	1063.5	1068.0	1081.6	1092.1	1084.6	1069.5	1074.0
50°	977.3	978.8	977.3	983.4	983.4	1000.0	1010.6	1021.2	1028.7	1010.6	989.5
52.5°	901.8	900.3	901.8	906.4	912.4	919.9	938.1	948.7	960.7	950.2	916.9
55°	826.3	829.3	826.3	827.8	830.9	835.4	862.5	873.2	895.7	882.2	847.5
57.5°	750.8	746.2	750.8	753.8	755.3	759.8	782.5	802.1	815.8	817.2	775.0
60°	663.1	657.1	663.1	676.8	679.7	682.8	703.9	722.0	734.2	738.6	694.9
62.5°	586.1	575.6	586.1	595.2	601.2	608.8	623.9	651.1	661.6	663.1	601.2
65°	504.5	500.0	504.5	522.6	524.1	533.3	549.9	569.5	592.2	589.1	500.0
67.5°	430.5	430.5	430.5	442.7	451.7	456.2	477.4	486.4	515.1	518.2	416.9
70°	362.6	361.1	362.6	371.6	377.7	388.2	407.8	418.5	441.1	448.6	338.4
72.5°	297.6	296.1	297.6	305.1	311.2	320.3	336.9	348.9	368.6	377.7	262.9
75°	240.2	237.2	240.2	246.2	244.8	256.8	270.4	282.5	300.6	306.6	194.9
77.5°	184.3	184.3	184.3	190.3	190.3	202.4	208.4	223.6	234.1	243.2	143.5
80°	137.5	135.9	137.5	139.0	139.0	145.1	155.6	166.2	175.2	175.2	98.2
82.5°	96.7	93.6	96.7	96.7	96.7	99.7	105.8	108.7	114.8	119.3	61.9
85°	60.4	60.4	60.4	61.9	60.4	63.5	65.0	68.0	68.0	65.0	37.8
87.5°	39.3	37.8	39.3	37.8	37.8	36.2	36.2	36.2	34.7	33.2	21.2
90°	7.0	7.0	7.0	7.0	7.0	9.3	12.4	14.0	12.1	8.1	5.2
92.5°	28.0	22.4	28.0	33.6	35.0	49.5	69.0	78.7	69.1	49.9	35.5
95°	97.6	80.8	97.6	114.4	118.6	155.8	205.3	230.1	194.3	122.8	69.2
97.5°	233.9	201.8	233.9	265.9	273.9	297.4	328.8	344.4	284.7	165.4	76.0
100°	337.0	298.8	337.0	375.2	384.7	383.0	380.7	379.5	313.3	180.9	81.7
102.5°	438.4	405.7	438.4	471.0	479.2	449.3	409.4	389.5	322.3	188.1	87.4
105°	567.7	550.1	567.7	585.3	589.7	522.5	433.1	388.4	323.4	193.3	95.9
107.5°	652.3	656.6	652.3	648.1	647.1	553.5	428.7	366.3	309.0	194.3	108.4
110°	684.6	702.9	684.6	666.3	661.8	557.2	417.7	347.9	296.3	192.9	115.3



TEST NUMBER: P934533

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	687.6	715.7	687.6	659.5	652.4	545.3	402.6	331.2	285.1	192.9	123.8
115°	669.3	708.3	669.3	630.3	620.5	517.4	379.8	311.1	272.2	194.7	136.5
117.5°	630.6	673.9	630.6	587.3	576.5	483.4	359.4	297.3	264.3	198.3	148.8
120°	599.5	641.5	599.5	557.5	547.0	461.9	348.5	291.8	261.6	201.3	156.0
122.5°	569.2	610.6	569.2	527.7	517.4	440.8	338.6	287.5	260.2	205.5	164.5
125°	525.8	564.0	525.8	487.7	478.2	413.1	326.3	283.0	259.0	211.2	175.3
127.5°	486.9	519.1	486.9	454.7	446.7	390.8	316.3	279.1	258.4	216.9	185.8
130°	464.1	493.8	464.1	434.3	426.9	377.1	310.8	277.6	258.8	221.1	192.8
132.5°	443.2	469.9	443.2	416.6	409.9	365.3	306.0	276.4	259.0	224.5	198.5
135°	414.7	437.7	414.7	391.7	386.0	348.7	298.9	274.1	258.8	228.2	205.1
137.5°	391.8	410.6	391.8	373.0	368.3	336.8	294.7	273.8	260.4	233.7	213.6
140°	376.2	393.7	376.2	358.6	354.2	327.0	290.6	272.4	260.6	237.0	219.3
142.5°	363.1	378.3	363.1	347.9	344.2	320.3	288.4	272.4	261.5	239.8	223.5
145°	343.7	355.1	343.7	332.1	329.3	309.7	283.7	270.6	261.6	243.5	229.9
147.5°	328.7	338.1	328.7	319.2	316.8	301.4	280.9	270.6	263.4	249.0	238.1
150°	319.3	327.0	319.3	311.6	309.6	296.6	279.3	270.6	264.3	251.7	242.3
152.5°	311.2	317.0	311.2	305.4	303.9	292.9	278.1	270.6	264.9	253.6	245.0
155°	302.0	305.8	302.0	298.1	297.2	288.3	276.5	270.6	266.3	257.6	251.1
157.5°	294.7	297.3	294.7	292.0	291.3	284.4	275.2	270.6	267.6	261.6	257.2
160°	290.3	291.8	290.3	288.7	288.3	282.4	274.6	270.6	268.2	263.5	259.9
162.5°	287.4	288.9	287.4	285.9	285.5	280.6	273.9	270.6	268.9	265.5	262.9
165°	283.2	284.8	283.2	281.6	281.3	277.7	273.0	270.6	269.8	268.3	267.2
167.5°	280.3	280.9	280.3	279.7	279.5	277.2	274.0	272.4	271.8	270.5	269.5
170°	279.5	279.5	279.5	279.5	279.5	277.2	274.0	272.4	272.4	272.3	272.2
172.5°	277.2	276.7	277.2	277.8	278.0	276.1	273.7	272.4	272.4	272.4	272.4
175°	276.0	276.0	276.0	276.0	276.0	274.8	273.2	272.4	272.8	273.6	274.1
177.5°	274.8	274.1	274.8	275.5	275.6	274.7	273.5	272.9	273.1	273.7	274.1
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934533

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1619.4	1610.3	1610.3	1595.2	1589.1	1584.6	1577.1	1554.4	1548.3	1542.4	1551.4
5°	1633.0	1616.4	1604.2	1577.1	1554.4	1545.3	1516.7	1462.3	1426.0	1398.8	1383.7
7.5°	1636.0	1614.8	1592.2	1549.9	1495.5	1471.3	1383.7	1284.0	1256.8	1232.6	1217.5
10°	1633.0	1608.8	1577.1	1513.6	1385.3	1342.9	1255.3	1190.3	1173.7	1169.2	1173.7
12.5°	1622.4	1599.8	1555.9	1450.2	1270.4	1241.7	1190.3	1152.6	1149.6	1157.1	1197.9
15°	1604.2	1583.2	1531.7	1365.6	1207.0	1185.8	1149.6	1135.9	1152.6	1205.5	1327.9
17.5°	1586.1	1562.0	1498.5	1282.5	1158.6	1143.5	1117.8	1145.1	1238.7	1309.7	1350.4
20°	1562.0	1533.3	1460.8	1222.1	1123.9	1110.3	1098.2	1220.6	1291.5	1317.2	1339.9
22.5°	1533.3	1503.1	1409.4	1179.8	1087.7	1077.0	1084.6	1262.9	1291.5	1309.7	1329.3
25°	1495.5	1469.8	1348.9	1146.6	1058.9	1046.9	1075.5	1258.3	1274.9	1279.5	1318.8
27.5°	1460.8	1427.5	1285.6	1116.3	1024.2	1019.6	1083.1	1238.7	1250.7	1255.3	1297.6
30°	1418.5	1368.6	1214.5	1084.6	988.0	986.4	1084.6	1214.5	1211.5	1223.6	1265.9
32.5°	1374.6	1281.0	1134.4	1045.3	953.2	951.7	1074.0	1178.3	1175.2	1191.8	1223.6
35°	1333.8	1213.0	1025.7	1000.0	909.4	910.9	1048.4	1135.9	1137.5	1152.6	1172.2
37.5°	1291.5	1154.1	906.4	950.2	867.1	867.1	1013.6	1096.7	1093.6	1098.2	1125.4
40°	1241.7	1062.0	800.6	885.2	827.8	823.3	971.3	1054.4	1043.8	1042.3	1080.1
42.5°	1188.9	960.7	722.0	799.1	782.5	776.5	919.9	1003.0	983.4	988.0	1036.2
45°	1131.4	933.6	661.6	675.3	735.7	731.1	864.1	944.1	930.6	942.6	992.5
47.5°	1074.0	879.1	642.0	560.5	685.8	684.3	802.1	886.7	879.1	891.3	944.1
50°	995.4	818.7	640.5	480.4	629.9	636.0	728.1	830.9	830.9	841.4	897.3
52.5°	894.3	744.7	581.5	435.1	564.9	583.1	663.1	782.5	785.5	796.1	845.9
55°	802.1	667.7	539.3	400.3	487.9	527.2	599.8	732.7	738.6	749.3	794.6
57.5°	717.6	555.9	530.2	359.5	416.9	454.7	543.8	684.3	687.3	696.4	740.2
60°	626.9	401.9	486.4	315.7	355.0	383.6	492.5	626.9	637.5	643.5	681.2
62.5°	524.1	291.5	441.1	285.5	324.7	330.8	450.1	572.5	586.1	590.6	613.3
65°	373.1	244.8	374.6	259.8	293.0	294.6	404.8	516.6	528.7	536.3	552.9
67.5°	252.3	199.4	285.5	235.7	268.9	270.4	361.1	451.7	468.3	474.3	484.9
70°	175.2	132.9	211.5	209.9	241.7	244.8	314.2	392.8	407.8	412.4	418.5
72.5°	128.4	107.3	175.2	188.8	213.0	216.0	265.8	326.3	341.4	345.9	348.9
75°	98.2	113.3	142.0	164.7	181.3	182.8	217.5	265.8	276.4	279.5	281.0
77.5°	78.6	105.8	104.3	132.9	148.0	145.1	170.7	205.5	214.5	214.5	214.5
80°	58.9	83.1	78.6	95.2	108.7	105.8	122.4	146.6	149.5	152.5	151.0
82.5°	43.8	52.8	52.8	60.4	72.5	69.4	81.6	95.2	95.2	95.2	98.2
85°	27.2	30.2	24.2	31.7	40.8	39.3	45.3	51.3	52.8	52.8	49.8
87.5°	16.6	13.6	7.6	12.1	18.1	18.1	21.2	22.7	21.2	21.2	21.2
90°	4.8	3.3	1.9	3.3	4.8	5.2	8.1	12.1	14.0	12.4	9.3
92.5°	32.4	19.8	7.3	19.8	32.4	35.5	49.9	69.1	78.7	69.0	49.5
95°	63.5	40.5	17.7	40.5	63.5	69.2	122.8	194.3	230.1	205.3	155.8
97.5°	70.9	50.7	30.5	50.7	70.9	76.0	165.4	284.7	344.4	328.8	297.4
100°	77.1	58.7	40.4	58.7	77.1	81.7	180.9	313.3	379.5	380.7	383.0
102.5°	83.1	66.1	48.9	66.1	83.1	87.4	188.1	322.3	389.5	409.4	449.3
105°	92.2	77.7	63.3	77.7	92.2	95.9	193.3	323.4	388.4	433.1	522.5
107.5°	105.0	91.5	78.0	91.5	105.0	108.4	194.3	309.0	366.3	428.7	553.5
110°	112.3	100.1	87.9	100.1	112.3	115.3	192.9	296.3	347.9	417.7	557.2



TEST NUMBER: P934533

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.9	109.3	97.7	109.3	120.9	123.8	192.9	285.1	331.2	402.6	545.3
115°	133.8	123.1	112.4	123.1	133.8	136.5	194.7	272.2	311.1	379.8	517.4
117.5°	146.4	136.7	126.9	136.7	146.4	148.8	198.3	264.3	297.3	359.4	483.4
120°	153.7	144.6	135.4	144.6	153.7	156.0	201.3	261.6	291.8	348.5	461.9
122.5°	162.2	153.0	143.7	153.0	162.2	164.5	205.5	260.2	287.5	338.6	440.8
125°	173.2	164.8	156.4	164.8	173.2	175.3	211.2	259.0	283.0	326.3	413.1
127.5°	183.7	175.2	166.7	175.2	183.7	185.8	216.9	258.4	279.1	316.3	390.8
130°	190.5	181.4	172.2	181.4	190.5	192.8	221.1	258.8	277.6	310.8	377.1
132.5°	196.2	187.1	177.9	187.1	196.2	198.5	224.5	259.0	276.4	306.0	365.3
135°	203.1	194.7	186.4	194.7	203.1	205.1	228.2	258.8	274.1	298.9	348.7
137.5°	211.6	203.2	195.0	203.2	211.6	213.6	233.7	260.4	273.8	294.7	336.8
140°	217.4	209.8	202.2	209.8	217.4	219.3	237.0	260.6	272.4	290.6	327.0
142.5°	221.7	214.8	207.7	214.8	221.7	223.5	239.8	261.5	272.4	288.4	320.3
145°	228.4	222.3	216.2	222.3	228.4	229.9	243.5	261.6	270.6	283.7	309.7
147.5°	236.5	230.7	224.7	230.7	236.5	238.1	249.0	263.4	270.6	280.9	301.4
150°	240.9	235.5	230.1	235.5	240.9	242.3	251.7	264.3	270.6	279.3	296.6
152.5°	244.0	239.9	235.8	239.9	244.0	245.0	253.6	264.9	270.6	278.1	292.9
155°	250.4	247.3	244.3	247.3	250.4	251.1	257.6	266.3	270.6	276.5	288.3
157.5°	256.4	253.5	250.6	253.5	256.4	257.2	261.6	267.6	270.6	275.2	284.4
160°	259.4	257.1	254.8	257.1	259.4	259.9	263.5	268.2	270.6	274.6	282.4
162.5°	262.4	260.7	259.0	260.7	262.4	262.9	265.5	268.9	270.6	273.9	280.6
165°	266.8	265.2	263.7	265.2	266.8	267.2	268.3	269.8	270.6	273.0	277.7
167.5°	269.3	268.6	267.9	268.6	269.3	269.5	270.5	271.8	272.4	274.0	277.2
170°	272.1	271.4	270.6	271.4	272.1	272.2	272.3	272.4	272.4	274.0	277.2
172.5°	272.4	272.2	272.1	272.2	272.4	272.4	272.4	272.4	272.4	273.7	276.1
175°	274.1	274.1	274.1	274.1	274.1	274.1	273.6	272.8	272.4	273.2	274.8
177.5°	274.1	274.1	274.1	274.1	274.1	274.1	273.7	273.1	272.9	273.5	274.7
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934533

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1540.8	1536.3	1542.4	1525.7	1542.4	1536.3	1540.8	1551.4	1542.4	1548.3	1554.4
5°	1352.0	1344.5	1320.3	1300.6	1320.3	1344.5	1352.0	1383.7	1398.8	1426.0	1462.3
7.5°	1208.5	1202.4	1196.4	1184.3	1196.4	1202.4	1208.5	1217.5	1232.6	1256.8	1284.0
10°	1176.7	1178.3	1187.4	1185.8	1187.4	1178.3	1176.7	1173.7	1169.2	1173.7	1190.3
12.5°	1258.3	1271.9	1321.8	1318.8	1321.8	1271.9	1258.3	1197.9	1157.1	1149.6	1152.6
15°	1352.0	1356.5	1367.1	1368.6	1367.1	1356.5	1352.0	1327.9	1205.5	1152.6	1135.9
17.5°	1361.1	1362.6	1370.1	1370.1	1370.1	1362.6	1361.1	1350.4	1309.7	1238.7	1145.1
20°	1353.5	1356.5	1371.6	1374.6	1371.6	1356.5	1353.5	1339.9	1317.2	1291.5	1220.6
22.5°	1350.4	1356.5	1368.6	1367.1	1368.6	1356.5	1350.4	1329.3	1309.7	1291.5	1262.9
25°	1335.4	1335.4	1336.9	1338.4	1336.9	1335.4	1335.4	1318.8	1279.5	1274.9	1258.3
27.5°	1303.7	1306.7	1315.7	1314.2	1315.7	1306.7	1303.7	1297.6	1255.3	1250.7	1238.7
30°	1274.9	1271.9	1264.4	1258.3	1264.4	1271.9	1274.9	1265.9	1223.6	1211.5	1214.5
32.5°	1226.6	1219.1	1211.5	1207.0	1211.5	1219.1	1226.6	1223.6	1191.8	1175.2	1178.3
35°	1169.2	1170.7	1169.2	1164.7	1169.2	1170.7	1169.2	1172.2	1152.6	1137.5	1135.9
37.5°	1128.5	1131.4	1130.0	1123.9	1130.0	1131.4	1128.5	1125.4	1098.2	1093.6	1096.7
40°	1086.1	1087.7	1086.1	1081.6	1086.1	1087.7	1086.1	1080.1	1042.3	1043.8	1054.4
42.5°	1045.3	1043.8	1039.3	1036.2	1039.3	1043.8	1045.3	1036.2	988.0	983.4	1003.0
45°	998.5	1000.0	991.0	986.4	991.0	1000.0	998.5	992.5	942.6	930.6	944.1
47.5°	951.7	951.7	944.1	939.6	944.1	951.7	951.7	944.1	891.3	879.1	886.7
50°	901.8	900.3	889.8	888.2	889.8	900.3	901.8	897.3	841.4	830.9	830.9
52.5°	844.4	844.4	845.9	849.0	845.9	844.4	844.4	845.9	796.1	785.5	782.5
55°	794.6	796.1	806.7	809.7	806.7	796.1	794.6	794.6	749.3	738.6	732.7
57.5°	743.2	743.2	750.8	750.8	750.8	743.2	743.2	740.2	696.4	687.3	684.3
60°	684.3	687.3	693.4	691.9	693.4	687.3	684.3	681.2	643.5	637.5	626.9
62.5°	622.3	625.4	626.9	623.9	626.9	625.4	622.3	613.3	590.6	586.1	572.5
65°	557.4	560.5	561.9	559.0	561.9	560.5	557.4	552.9	536.3	528.7	516.6
67.5°	490.9	489.4	487.9	494.0	487.9	489.4	490.9	484.9	474.3	468.3	451.7
70°	422.9	422.9	421.5	424.4	421.5	422.9	422.9	418.5	412.4	407.8	392.8
72.5°	350.4	348.9	355.0	350.4	355.0	348.9	350.4	348.9	345.9	341.4	326.3
75°	279.5	282.5	279.5	284.0	279.5	282.5	279.5	281.0	279.5	276.4	265.8
77.5°	213.0	216.0	213.0	213.0	213.0	216.0	213.0	214.5	214.5	214.5	205.5
80°	151.0	149.5	149.5	148.0	149.5	149.5	151.0	151.0	152.5	149.5	146.6
82.5°	96.7	95.2	95.2	98.2	95.2	95.2	96.7	98.2	95.2	95.2	95.2
85°	52.8	54.4	51.3	51.3	51.3	54.4	52.8	49.8	52.8	52.8	51.3
87.5°	19.6	18.1	18.1	18.1	18.1	18.1	19.6	21.2	21.2	21.2	22.7
90°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.3	12.4	14.0	12.1
92.5°	35.0	33.6	28.0	22.4	28.0	33.6	35.0	49.5	69.0	78.7	69.1
95°	118.6	114.4	97.6	80.8	97.6	114.4	118.6	155.8	205.3	230.1	194.3
97.5°	273.9	265.9	233.9	201.8	233.9	265.9	273.9	297.4	328.8	344.4	284.7
100°	384.7	375.2	337.0	298.8	337.0	375.2	384.7	383.0	380.7	379.5	313.3
102.5°	479.2	471.0	438.4	405.7	438.4	471.0	479.2	449.3	409.4	389.5	322.3
105°	589.7	585.3	567.7	550.1	567.7	585.3	589.7	522.5	433.1	388.4	323.4
107.5°	647.1	648.1	652.3	656.6	652.3	648.1	647.1	553.5	428.7	366.3	309.0
110°	661.8	666.3	684.6	702.9	684.6	666.3	661.8	557.2	417.7	347.9	296.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	652.4	659.5	687.6	715.7	687.6	659.5	652.4	545.3	402.6	331.2	285.1
115°	620.5	630.3	669.3	708.3	669.3	630.3	620.5	517.4	379.8	311.1	272.2
117.5°	576.5	587.3	630.6	673.9	630.6	587.3	576.5	483.4	359.4	297.3	264.3
120°	547.0	557.5	599.5	641.5	599.5	557.5	547.0	461.9	348.5	291.8	261.6
122.5°	517.4	527.7	569.2	610.6	569.2	527.7	517.4	440.8	338.6	287.5	260.2
125°	478.2	487.7	525.8	564.0	525.8	487.7	478.2	413.1	326.3	283.0	259.0
127.5°	446.7	454.7	486.9	519.1	486.9	454.7	446.7	390.8	316.3	279.1	258.4
130°	426.9	434.3	464.1	493.8	464.1	434.3	426.9	377.1	310.8	277.6	258.8
132.5°	409.9	416.6	443.2	469.9	443.2	416.6	409.9	365.3	306.0	276.4	259.0
135°	386.0	391.7	414.7	437.7	414.7	391.7	386.0	348.7	298.9	274.1	258.8
137.5°	368.3	373.0	391.8	410.6	391.8	373.0	368.3	336.8	294.7	273.8	260.4
140°	354.2	358.6	376.2	393.7	376.2	358.6	354.2	327.0	290.6	272.4	260.6
142.5°	344.2	347.9	363.1	378.3	363.1	347.9	344.2	320.3	288.4	272.4	261.5
145°	329.3	332.1	343.7	355.1	343.7	332.1	329.3	309.7	283.7	270.6	261.6
147.5°	316.8	319.2	328.7	338.1	328.7	319.2	316.8	301.4	280.9	270.6	263.4
150°	309.6	311.6	319.3	327.0	319.3	311.6	309.6	296.6	279.3	270.6	264.3
152.5°	303.9	305.4	311.2	317.0	311.2	305.4	303.9	292.9	278.1	270.6	264.9
155°	297.2	298.1	302.0	305.8	302.0	298.1	297.2	288.3	276.5	270.6	266.3
157.5°	291.3	292.0	294.7	297.3	294.7	292.0	291.3	284.4	275.2	270.6	267.6
160°	288.3	288.7	290.3	291.8	290.3	288.7	288.3	282.4	274.6	270.6	268.2
162.5°	285.5	285.9	287.4	288.9	287.4	285.9	285.5	280.6	273.9	270.6	268.9
165°	281.3	281.6	283.2	284.8	283.2	281.6	281.3	277.7	273.0	270.6	269.8
167.5°	279.5	279.7	280.3	280.9	280.3	279.7	279.5	277.2	274.0	272.4	271.8
170°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	277.2	274.0	272.4	272.4
172.5°	278.0	277.8	277.2	276.7	277.2	277.8	278.0	276.1	273.7	272.4	272.4
175°	276.0	276.0	276.0	276.0	276.0	276.0	276.0	274.8	273.2	272.4	272.8
177.5°	275.6	275.5	274.8	274.1	274.8	275.5	275.6	274.7	273.5	272.9	273.1
180°	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934533

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1596.7	1596.7	1596.7	1596.7	1596.7
2.5°	1577.1	1584.6	1589.1	1595.2	1610.3
5°	1516.7	1545.3	1554.4	1577.1	1604.2
7.5°	1383.7	1471.3	1495.5	1549.9	1592.2
10°	1255.3	1342.9	1385.3	1513.6	1577.1
12.5°	1190.3	1241.7	1270.4	1450.2	1555.9
15°	1149.6	1185.8	1207.0	1365.6	1531.7
17.5°	1117.8	1143.5	1158.6	1282.5	1498.5
20°	1098.2	1110.3	1123.9	1222.1	1460.8
22.5°	1084.6	1077.0	1087.7	1179.8	1409.4
25°	1075.5	1046.9	1058.9	1146.6	1348.9
27.5°	1083.1	1019.6	1024.2	1116.3	1285.6
30°	1084.6	986.4	988.0	1084.6	1214.5
32.5°	1074.0	951.7	953.2	1045.3	1134.4
35°	1048.4	910.9	909.4	1000.0	1025.7
37.5°	1013.6	867.1	867.1	950.2	906.4
40°	971.3	823.3	827.8	885.2	800.6
42.5°	919.9	776.5	782.5	799.1	722.0
45°	864.1	731.1	735.7	675.3	661.6
47.5°	802.1	684.3	685.8	560.5	642.0
50°	728.1	636.0	629.9	480.4	640.5
52.5°	663.1	583.1	564.9	435.1	581.5
55°	599.8	527.2	487.9	400.3	539.3
57.5°	543.8	454.7	416.9	359.5	530.2
60°	492.5	383.6	355.0	315.7	486.4
62.5°	450.1	330.8	324.7	285.5	441.1
65°	404.8	294.6	293.0	259.8	374.6
67.5°	361.1	270.4	268.9	235.7	285.5
70°	314.2	244.8	241.7	209.9	211.5
72.5°	265.8	216.0	213.0	188.8	175.2
75°	217.5	182.8	181.3	164.7	142.0
77.5°	170.7	145.1	148.0	132.9	104.3
80°	122.4	105.8	108.7	95.2	78.6
82.5°	81.6	69.4	72.5	60.4	52.8
85°	45.3	39.3	40.8	31.7	24.2
87.5°	21.2	18.1	18.1	12.1	7.6
90°	8.1	5.2	4.8	3.3	1.9
92.5°	49.9	35.5	32.4	19.8	7.3
95°	122.8	69.2	63.5	40.5	17.7
97.5°	165.4	76.0	70.9	50.7	30.5
100°	180.9	81.7	77.1	58.7	40.4
102.5°	188.1	87.4	83.1	66.1	48.9
105°	193.3	95.9	92.2	77.7	63.3
107.5°	194.3	108.4	105.0	91.5	78.0
110°	192.9	115.3	112.3	100.1	87.9



TEST NUMBER: P934533

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	192.9	123.8	120.9	109.3	97.7
115°	194.7	136.5	133.8	123.1	112.4
117.5°	198.3	148.8	146.4	136.7	126.9
120°	201.3	156.0	153.7	144.6	135.4
122.5°	205.5	164.5	162.2	153.0	143.7
125°	211.2	175.3	173.2	164.8	156.4
127.5°	216.9	185.8	183.7	175.2	166.7
130°	221.1	192.8	190.5	181.4	172.2
132.5°	224.5	198.5	196.2	187.1	177.9
135°	228.2	205.1	203.1	194.7	186.4
137.5°	233.7	213.6	211.6	203.2	195.0
140°	237.0	219.3	217.4	209.8	202.2
142.5°	239.8	223.5	221.7	214.8	207.7
145°	243.5	229.9	228.4	222.3	216.2
147.5°	249.0	238.1	236.5	230.7	224.7
150°	251.7	242.3	240.9	235.5	230.1
152.5°	253.6	245.0	244.0	239.9	235.8
155°	257.6	251.1	250.4	247.3	244.3
157.5°	261.6	257.2	256.4	253.5	250.6
160°	263.5	259.9	259.4	257.1	254.8
162.5°	265.5	262.9	262.4	260.7	259.0
165°	268.3	267.2	266.8	265.2	263.7
167.5°	270.5	269.5	269.3	268.6	267.9
170°	272.3	272.2	272.1	271.4	270.6
172.5°	272.4	272.4	272.4	272.2	272.1
175°	273.6	274.1	274.1	274.1	274.1
177.5°	273.7	274.1	274.1	274.1	274.1
180°	274.1	274.1	274.1	274.1	274.1



TEST NUMBER: P934533
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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	15.83	16.90	16.59	17.69	18.64	18.62	19.70	19.39	20.49	21.44
	3H	16.32	17.28	17.10	18.08	19.07	19.98	20.94	20.75	21.74	22.72
	4H	16.52	17.43	17.32	18.24	19.23	20.42	21.33	21.22	22.14	23.13
	6H	16.65	17.49	17.46	18.30	19.31	20.71	21.55	21.52	22.36	23.37
	8H	16.66	17.46	17.48	18.29	19.30	20.79	21.59	21.61	22.42	23.43
	12H	16.64	17.40	17.46	18.23	19.26	20.83	21.59	21.65	22.42	23.46
4H	2H	16.88	17.79	17.68	18.59	19.59	19.06	19.97	19.86	20.78	21.77
	3H	17.92	18.68	18.74	19.52	20.53	20.58	21.34	21.39	22.17	23.19
	4H	18.21	18.90	19.03	19.74	20.78	21.11	21.80	21.93	22.64	23.68
	6H	18.35	18.94	19.19	19.81	20.85	21.48	22.07	22.32	22.94	23.98
	8H	18.36	18.91	19.20	19.77	20.83	21.58	22.14	22.43	23.00	24.06
	12H	18.33	18.84	19.20	19.71	20.78	21.65	22.15	22.51	23.03	24.09
8H	4H	18.67	19.23	19.52	20.09	21.15	21.25	21.81	22.10	22.66	23.72
	6H	18.94	19.41	19.82	20.31	21.36	21.69	22.15	22.56	23.05	24.11
	8H	18.99	19.40	19.87	20.29	21.37	21.84	22.25	22.72	23.14	24.21
	12H	18.98	19.34	19.87	20.23	21.36	21.94	22.30	22.83	23.18	24.31
12H	4H	18.69	19.19	19.56	20.07	21.13	21.22	21.73	22.09	22.60	23.67
	6H	19.01	19.42	19.89	20.31	21.39	21.69	22.10	22.57	22.99	24.06
	8H	19.08	19.44	19.97	20.33	21.46	21.85	22.21	22.74	23.10	24.23