

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: P935054

Luminaire Tested: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

**Test Information**

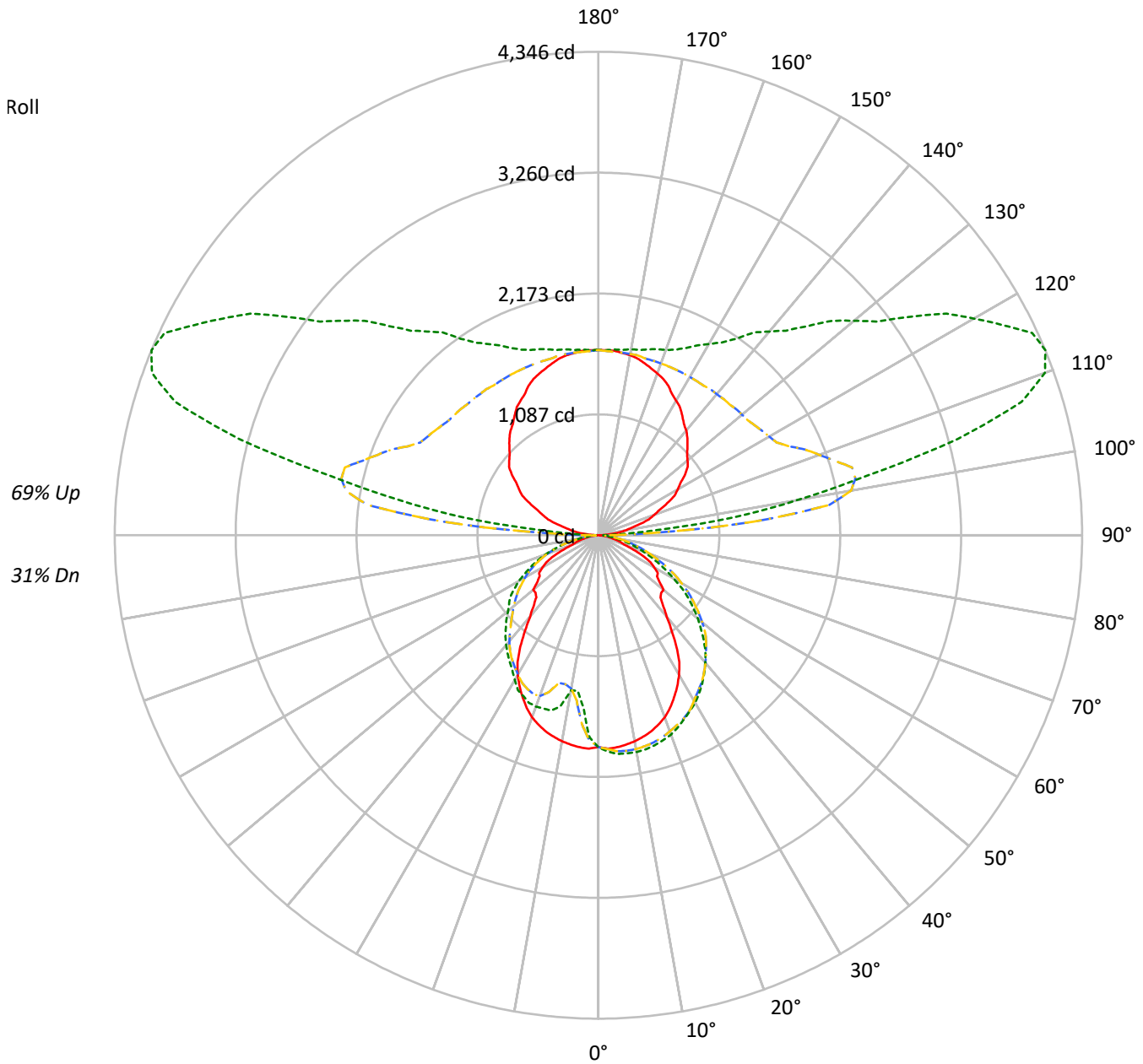
Test Method: LM-79-2019  
Report Number: P935054  
REPORT IS A COMBINATION OF REPORTS P933737 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15734.2 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 123.6  
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

TEST NUMBER: P935054  
CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

### Luminous Intensity Polar Plot



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



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5889	5889	5889	5889
5°	5935	5945	5935	4674
10°	5898	5856	5898	4187
15°	5836	5729	5836	4784
20°	5716	5579	5716	4794
25°	5469	5359	5469	4692
30°	5148	5177	5148	4469
35°	4592	4947	4592	4224
40°	3828	4676	3828	4039
45°	3422	4359	3422	3826
50°	3639	3981	3639	3612
55°	3427	3573	3427	3489
60°	3538	3035	3538	3195
65°	3213	2509	3213	2804
70°	2230	2000	2230	2351
75°	1962	1478	1962	1769
80°	1592	977	1592	1064
85°	933	518	933	440

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5242 cd/sqm



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	1.1
10°-20°	488.0	3.1
20°-30°	754.3	4.8
30°-40°	900.5	5.7
40°-50°	905.8	5.8
50°-60°	788.2	5.0
60°-70°	558.8	3.6
70°-80°	295.6	1.9
80°-90°	80.0	0.5
90°-100°	811.4	5.2
100°-110°	2133.3	13.6
110°-120°	2212.0	14.1
120°-130°	1774.3	11.3
130°-140°	1392.2	8.8
140°-150°	1068.5	6.8
150°-160°	769.5	4.9
160°-170°	470.8	3.0
170°-180°	159.1	1.0
0°-30°	1414.2	9.0
0°-40°	2314.7	14.7
0°-60°	4008.7	25.5
0°-90°	4943.1	31.4
90°-120°	5156.7	32.8
90°-150°	9391.7	59.7
90°-180°	10791.0	68.6
0°-180°	15734.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1904	1904	1904	1904	1904	
5°	1913	1972	1913	1551	1913	181
15°	1826	1954	1826	1632	1826	514
25°	1609	1823	1609	1596	1609	739
35°	1223	1627	1223	1389	1223	757
45°	789	1340	789	1176	789	632
55°	643	989	643	966	643	591
65°	447	596	447	666	447	427
75°	169	283	169	339	169	178
85°	29	72	29	61	29	39
90°	11	42	11	42	11	10
95°	107	490	107	490	107	119
105°	384	3340	384	3340	384	407
115°	683	4301	683	4301	683	674
125°	950	3425	950	3425	950	843
135°	1132	2658	1132	2658	1132	876
145°	1313	2156	1313	2156	1313	822
155°	1484	1857	1484	1857	1484	682
165°	1601	1729	1601	1729	1601	452
175°	1665	1676	1665	1676	1665	158
180°	1665	1665	1665	1665	1665	



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1920.2	1920.2	1931.0	1934.6	1934.6	1929.2	1923.8	1929.2	1945.4	1950.8	1949.0
5°	1913.0	1927.4	1947.2	1950.8	1954.5	1952.7	1949.0	1952.7	1970.7	1974.3	1976.0
7.5°	1898.6	1925.6	1950.8	1956.3	1961.6	1956.3	1954.5	1958.0	1976.0	1979.6	1979.6
10°	1880.6	1918.4	1947.2	1950.8	1956.3	1950.8	1950.8	1958.0	1976.0	1979.6	1981.5
12.5°	1855.4	1907.6	1934.6	1938.3	1945.4	1943.6	1941.8	1949.0	1967.1	1970.7	1970.7
15°	1826.5	1887.8	1913.0	1916.6	1929.2	1925.6	1925.6	1932.8	1952.7	1958.0	1956.3
17.5°	1787.0	1862.6	1891.4	1896.8	1905.9	1904.0	1905.9	1913.0	1931.0	1934.6	1936.5
20°	1741.9	1828.3	1862.6	1868.0	1877.0	1877.0	1877.0	1886.0	1904.0	1911.2	1911.2
22.5°	1680.7	1792.3	1828.3	1832.0	1842.7	1842.7	1846.4	1858.9	1875.1	1877.0	1877.0
25°	1608.6	1752.7	1783.3	1794.1	1804.9	1810.3	1815.8	1822.9	1828.3	1826.5	1828.3
27.5°	1533.0	1702.3	1741.9	1749.1	1763.5	1768.9	1776.1	1777.9	1779.7	1785.1	1781.5
30°	1448.3	1632.0	1691.4	1698.7	1722.0	1725.7	1718.5	1722.0	1731.1	1734.7	1738.2
32.5°	1352.8	1527.5	1639.2	1655.4	1677.0	1666.3	1664.4	1669.8	1684.3	1684.3	1687.8
35°	1223.1	1446.5	1590.6	1605.0	1621.2	1608.6	1615.8	1617.6	1626.6	1632.0	1630.2
37.5°	1080.8	1376.2	1540.1	1550.9	1563.6	1547.4	1558.1	1563.6	1570.7	1567.2	1567.2
40°	954.7	1266.3	1480.7	1487.9	1498.7	1486.1	1496.9	1500.5	1504.1	1500.5	1498.7
42.5°	861.0	1145.6	1417.6	1426.7	1419.4	1428.5	1432.1	1439.3	1433.8	1426.7	1426.7
45°	788.9	1113.2	1349.2	1360.0	1349.2	1363.6	1369.0	1369.0	1352.8	1349.2	1347.4
47.5°	765.6	1048.4	1280.7	1280.7	1275.4	1293.4	1302.3	1289.8	1273.6	1268.1	1268.1
50°	763.8	976.3	1187.1	1179.8	1205.1	1226.7	1217.7	1205.1	1192.5	1172.7	1172.7
52.5°	693.5	888.1	1066.4	1093.4	1133.0	1145.6	1131.2	1118.6	1097.0	1088.0	1080.8
55°	643.1	796.2	956.5	1010.5	1052.0	1068.2	1041.2	1028.5	996.1	990.8	987.2
57.5°	632.3	662.9	855.6	924.1	974.5	972.8	956.5	933.1	906.1	900.7	898.9
60°	580.1	479.2	747.6	828.6	880.8	875.4	861.0	839.4	814.2	810.6	807.0
62.5°	526.0	347.6	625.0	717.0	790.7	788.9	776.4	743.9	725.9	717.0	709.7
65°	446.8	291.8	445.0	596.3	702.6	706.1	679.1	655.7	635.9	625.0	623.2
67.5°	340.5	237.8	300.8	497.2	617.9	614.3	580.1	569.2	544.0	538.6	527.8
70°	252.2	158.6	209.0	403.5	535.0	526.0	499.0	486.3	463.0	450.3	443.1
72.5°	209.0	127.9	153.1	313.4	450.3	439.5	416.1	401.7	381.9	371.1	363.9
75°	169.3	135.1	117.1	232.3	365.6	358.5	336.8	322.4	306.2	291.8	293.6
77.5°	124.3	126.1	93.6	171.1	290.0	279.2	266.6	248.6	241.4	227.0	227.0
80°	93.6	99.1	70.3	117.1	209.0	209.0	198.1	185.5	172.9	165.7	165.7
82.5°	63.0	63.0	52.2	73.9	142.3	136.9	129.7	126.1	118.9	115.3	115.3
85°	28.8	36.0	32.4	45.0	77.4	81.0	81.0	77.4	75.7	72.1	73.9
87.5°	9.0	16.2	19.8	25.2	39.7	41.5	43.2	43.2	43.2	45.0	45.0
90°	11.2	20.1	29.0	31.2	49.2	73.0	84.9	75.5	56.6	42.4	42.4
92.5°	44.7	120.6	196.6	215.6	303.2	419.8	478.2	419.1	300.9	212.3	203.9
95°	107.3	246.3	385.3	420.1	745.9	1180.4	1397.6	1247.2	946.3	720.5	694.9
97.5°	185.4	308.1	430.7	461.4	1004.7	1729.1	2091.4	1996.3	1806.1	1663.5	1614.9
100°	245.8	357.0	468.2	496.0	1098.9	1902.8	2304.8	2311.8	2325.7	2336.0	2278.1
102.5°	297.2	400.9	504.7	530.7	1142.1	1957.5	2365.1	2486.3	2728.6	2910.3	2860.6
105°	384.4	472.2	560.1	582.0	1174.2	1963.7	2358.4	2630.1	3173.3	3580.6	3553.9
107.5°	473.7	555.6	637.6	658.1	1180.1	1876.2	2224.3	2603.2	3360.9	3929.2	3935.6
110°	534.1	608.0	682.0	700.5	1171.2	1798.8	2112.6	2536.2	3383.2	4018.5	4046.4



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	593.2	663.8	734.2	751.9	1171.6	1731.2	2011.0	2444.5	3311.4	3961.6	4004.3
115°	682.6	747.7	812.7	829.0	1182.3	1653.6	1889.2	2306.8	3141.9	3768.3	3827.5
117.5°	770.9	830.0	889.0	903.8	1204.4	1605.0	1805.4	2182.2	2936.0	3501.3	3566.9
120°	822.3	877.9	933.5	947.4	1222.3	1588.7	1771.9	2116.2	2804.9	3321.4	3385.3
122.5°	872.6	928.7	984.8	998.8	1248.0	1580.1	1746.2	2056.3	2676.4	3141.6	3204.5
125°	949.7	1000.8	1051.9	1064.7	1282.5	1573.1	1718.3	1981.7	2508.5	2903.6	2961.5
127.5°	1012.2	1063.8	1115.5	1128.4	1317.2	1568.9	1694.8	1921.0	2373.3	2712.5	2761.4
130°	1045.7	1101.3	1156.9	1170.8	1342.5	1571.5	1685.9	1887.2	2289.9	2591.9	2637.1
132.5°	1080.4	1136.0	1191.6	1205.4	1362.9	1573.0	1678.0	1858.2	2218.8	2489.1	2529.6
135°	1131.8	1182.3	1233.0	1245.6	1385.3	1571.5	1664.7	1815.6	2117.4	2343.8	2378.8
137.5°	1184.2	1234.4	1284.5	1297.0	1418.8	1581.2	1662.4	1790.0	2045.3	2236.7	2265.2
140°	1227.8	1274.0	1320.1	1331.7	1439.3	1582.8	1654.5	1764.7	1985.3	2150.6	2177.3
142.5°	1261.3	1304.0	1346.7	1357.4	1456.4	1588.5	1654.5	1751.4	1945.1	2090.3	2113.2
145°	1312.7	1350.0	1387.2	1396.5	1478.8	1588.6	1643.4	1722.6	1881.0	1999.8	2017.1
147.5°	1364.1	1400.4	1436.6	1445.7	1511.6	1599.5	1643.4	1705.7	1830.4	1923.8	1938.3
150°	1397.6	1430.4	1463.1	1471.4	1528.7	1605.2	1643.4	1696.1	1801.3	1880.2	1891.9
152.5°	1432.2	1457.0	1481.9	1488.1	1539.8	1608.9	1643.4	1688.4	1778.2	1845.6	1854.4
155°	1483.6	1502.0	1520.4	1525.0	1564.5	1617.1	1643.4	1679.2	1750.6	1804.2	1810.1
157.5°	1521.6	1539.5	1557.4	1561.9	1589.1	1625.3	1643.4	1671.2	1726.8	1768.5	1772.6
160°	1547.3	1561.2	1575.1	1578.6	1600.2	1629.0	1643.4	1667.3	1714.9	1750.6	1752.9
162.5°	1573.0	1583.4	1593.8	1596.4	1612.1	1633.0	1643.4	1663.5	1703.7	1733.9	1736.1
165°	1600.9	1610.3	1619.8	1622.1	1629.2	1638.7	1643.4	1657.8	1686.6	1708.2	1710.5
167.5°	1626.6	1631.1	1635.6	1636.7	1642.6	1650.6	1654.5	1664.0	1682.9	1697.1	1698.0
170°	1643.4	1647.9	1652.4	1653.5	1653.8	1654.3	1654.5	1664.0	1682.9	1697.1	1697.1
172.5°	1652.3	1653.3	1654.3	1654.5	1654.5	1654.5	1654.5	1662.0	1676.9	1688.1	1687.2
175°	1664.7	1664.7	1664.7	1664.7	1661.3	1656.8	1654.5	1659.3	1668.7	1675.8	1675.8
177.5°	1664.7	1664.7	1664.7	1664.7	1662.1	1658.6	1656.8	1660.5	1668.0	1673.5	1672.5
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1952.7	1947.2	1952.7	1949.0	1950.8	1945.4	1929.2	1923.8	1929.2	1934.6	1934.6
5°	1976.0	1972.5	1976.0	1976.0	1974.3	1970.7	1952.7	1949.0	1952.7	1954.5	1950.8
7.5°	1983.3	1977.8	1983.3	1979.6	1979.6	1976.0	1958.0	1954.5	1956.3	1961.6	1956.3
10°	1983.3	1977.8	1983.3	1981.5	1979.6	1976.0	1958.0	1950.8	1950.8	1956.3	1950.8
12.5°	1974.3	1970.7	1974.3	1970.7	1970.7	1967.1	1949.0	1941.8	1943.6	1945.4	1938.3
15°	1959.8	1954.5	1959.8	1956.3	1958.0	1952.7	1932.8	1925.6	1925.6	1929.2	1916.6
17.5°	1938.3	1931.0	1938.3	1936.5	1934.6	1931.0	1913.0	1905.9	1904.0	1905.9	1896.8
20°	1913.0	1907.6	1913.0	1911.2	1911.2	1904.0	1886.0	1877.0	1877.0	1877.0	1868.0
22.5°	1873.4	1868.0	1873.4	1877.0	1877.0	1875.1	1858.9	1846.4	1842.7	1842.7	1832.0
25°	1828.3	1822.9	1828.3	1828.3	1826.5	1828.3	1822.9	1815.8	1810.3	1804.9	1794.1
27.5°	1785.1	1781.5	1785.1	1781.5	1785.1	1779.7	1777.9	1776.1	1768.9	1763.5	1749.1
30°	1741.9	1738.2	1741.9	1738.2	1734.7	1731.1	1722.0	1718.5	1725.7	1722.0	1698.7
32.5°	1687.8	1684.3	1687.8	1687.8	1684.3	1684.3	1669.8	1664.4	1666.3	1677.0	1655.4
35°	1632.0	1626.6	1632.0	1630.2	1632.0	1626.6	1617.6	1615.8	1608.6	1621.2	1605.0
37.5°	1567.2	1561.8	1567.2	1567.2	1567.2	1570.7	1563.6	1558.1	1547.4	1563.6	1550.9
40°	1500.5	1493.3	1500.5	1498.7	1500.5	1504.1	1500.5	1496.9	1486.1	1498.7	1487.9
42.5°	1424.9	1423.0	1424.9	1426.7	1426.7	1433.8	1439.3	1432.1	1428.5	1419.4	1426.7
45°	1343.8	1340.2	1343.8	1347.4	1349.2	1352.8	1369.0	1369.0	1363.6	1349.2	1360.0
47.5°	1257.3	1248.3	1257.3	1268.1	1268.1	1273.6	1289.8	1302.3	1293.4	1275.4	1280.7
50°	1165.4	1167.2	1165.4	1172.7	1172.7	1192.5	1205.1	1217.7	1226.7	1205.1	1179.8
52.5°	1075.4	1073.6	1075.4	1080.8	1088.0	1097.0	1118.6	1131.2	1145.6	1133.0	1093.4
55°	985.3	989.0	985.3	987.2	990.8	996.1	1028.5	1041.2	1068.2	1052.0	1010.5
57.5°	895.2	889.9	895.2	898.9	900.7	906.1	933.1	956.5	972.8	974.5	924.1
60°	790.7	783.6	790.7	807.0	810.6	814.2	839.4	861.0	875.4	880.8	828.6
62.5°	698.9	686.3	698.9	709.7	717.0	725.9	743.9	776.4	788.9	790.7	717.0
65°	601.6	596.3	601.6	623.2	625.0	635.9	655.7	679.1	706.1	702.6	596.3
67.5°	513.4	513.4	513.4	527.8	538.6	544.0	569.2	580.1	614.3	617.9	497.2
70°	432.3	430.6	432.3	443.1	450.3	463.0	486.3	499.0	526.0	535.0	403.5
72.5°	354.9	353.0	354.9	363.9	371.1	381.9	401.7	416.1	439.5	450.3	313.4
75°	286.4	282.8	286.4	293.6	291.8	306.2	322.4	336.8	358.5	365.6	232.3
77.5°	219.8	219.8	219.8	227.0	227.0	241.4	248.6	266.6	279.2	290.0	171.1
80°	163.9	162.1	163.9	165.7	165.7	172.9	185.5	198.1	209.0	209.0	117.1
82.5°	115.3	111.6	115.3	115.3	115.3	118.9	126.1	129.7	136.9	142.3	73.9
85°	72.1	72.1	72.1	73.9	72.1	75.7	77.4	81.0	81.0	77.4	45.0
87.5°	46.8	45.0	46.8	45.0	45.0	43.2	43.2	43.2	41.5	39.7	25.2
90°	42.4	42.4	42.4	42.4	42.4	56.6	75.5	84.9	73.0	49.2	31.2
92.5°	170.0	136.3	170.0	203.9	212.3	300.9	419.1	478.2	419.8	303.2	215.6
95°	592.7	490.5	592.7	694.9	720.5	946.3	1247.2	1397.6	1180.4	745.9	420.1
97.5°	1420.2	1225.6	1420.2	1614.9	1663.5	1806.1	1996.3	2091.4	1729.1	1004.7	461.4
100°	2046.2	1814.3	2046.2	2278.1	2336.0	2325.7	2311.8	2304.8	1902.8	1098.9	496.0
102.5°	2662.0	2463.5	2662.0	2860.6	2910.3	2728.6	2486.3	2365.1	1957.5	1142.1	530.7
105°	3447.1	3340.4	3447.1	3553.9	3580.6	3173.3	2630.1	2358.4	1963.7	1174.2	582.0
107.5°	3961.5	3987.3	3961.5	3935.6	3929.2	3360.9	2603.2	2224.3	1876.2	1180.1	658.1
110°	4157.6	4268.8	4157.6	4046.4	4018.5	3383.2	2536.2	2112.6	1798.8	1171.2	700.5





TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4175.1	4345.9	4175.1	4004.3	3961.6	3311.4	2444.5	2011.0	1731.2	1171.6	751.9
115°	4064.4	4301.2	4064.4	3827.5	3768.3	3141.9	2306.8	1889.2	1653.6	1182.3	829.0
117.5°	3829.6	4092.3	3829.6	3566.9	3501.3	2936.0	2182.2	1805.4	1605.0	1204.4	903.8
120°	3640.4	3895.7	3640.4	3385.3	3321.4	2804.9	2116.2	1771.9	1588.7	1222.3	947.4
122.5°	3456.2	3707.9	3456.2	3204.5	3141.6	2676.4	2056.3	1746.2	1580.1	1248.0	998.8
125°	3193.4	3425.3	3193.4	2961.5	2903.6	2508.5	1981.7	1718.3	1573.1	1282.5	1064.7
127.5°	2957.1	3152.8	2957.1	2761.4	2712.5	2373.3	1921.0	1694.8	1568.9	1317.2	1128.4
130°	2817.8	2998.6	2817.8	2637.1	2591.9	2289.9	1887.2	1685.9	1571.5	1342.5	1170.8
132.5°	2691.5	2853.4	2691.5	2529.6	2489.1	2218.8	1858.2	1678.0	1573.0	1362.9	1205.4
135°	2518.2	2657.8	2518.2	2378.8	2343.8	2117.4	1815.6	1664.7	1571.5	1385.3	1245.6
137.5°	2379.4	2493.6	2379.4	2265.2	2236.7	2045.3	1790.0	1662.4	1581.2	1418.8	1297.0
140°	2284.1	2390.8	2284.1	2177.3	2150.6	1985.3	1764.7	1654.5	1582.8	1439.3	1331.7
142.5°	2205.1	2296.9	2205.1	2113.2	2090.3	1945.1	1751.4	1654.5	1588.5	1456.4	1357.4
145°	2086.7	2156.2	2086.7	2017.1	1999.8	1881.0	1722.6	1643.4	1588.6	1478.8	1396.5
147.5°	1995.8	2053.4	1995.8	1938.3	1923.8	1830.4	1705.7	1643.4	1599.5	1511.6	1445.7
150°	1938.6	1985.3	1938.6	1891.9	1880.2	1801.3	1696.1	1643.4	1605.2	1528.7	1471.4
152.5°	1889.6	1924.9	1889.6	1854.4	1845.6	1778.2	1688.4	1643.4	1608.9	1539.8	1488.1
155°	1833.4	1856.8	1833.4	1810.1	1804.2	1750.6	1679.2	1643.4	1617.1	1564.5	1525.0
157.5°	1789.0	1805.4	1789.0	1772.6	1768.5	1726.8	1671.2	1643.4	1625.3	1589.1	1561.9
160°	1762.4	1771.9	1762.4	1752.9	1750.6	1714.9	1667.3	1643.4	1629.0	1600.2	1578.6
162.5°	1745.1	1754.0	1745.1	1736.1	1733.9	1703.7	1663.5	1643.4	1633.0	1612.1	1596.4
165°	1720.0	1729.4	1720.0	1710.5	1708.2	1686.6	1657.8	1643.4	1638.7	1629.2	1622.1
167.5°	1702.0	1705.9	1702.0	1698.0	1697.1	1682.9	1664.0	1654.5	1650.6	1642.6	1636.7
170°	1697.1	1697.1	1697.1	1697.1	1697.1	1682.9	1664.0	1654.5	1654.3	1653.8	1653.5
172.5°	1683.7	1680.2	1683.7	1687.2	1688.1	1676.9	1662.0	1654.5	1654.5	1654.5	1654.5
175°	1675.8	1675.8	1675.8	1675.8	1675.8	1668.7	1659.3	1654.5	1656.8	1661.3	1664.7
177.5°	1668.6	1664.7	1668.6	1672.5	1673.5	1668.0	1660.5	1656.8	1658.6	1662.1	1664.7
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1931.0	1920.2	1920.2	1902.2	1895.0	1889.6	1880.6	1853.6	1846.4	1839.1	1850.0
5°	1947.2	1927.4	1913.0	1880.6	1853.6	1842.7	1808.5	1743.7	1700.5	1668.1	1650.1
7.5°	1950.8	1925.6	1898.6	1848.2	1783.3	1754.5	1650.1	1531.2	1498.7	1469.9	1451.8
10°	1947.2	1918.4	1880.6	1804.9	1651.9	1601.4	1496.9	1419.4	1399.6	1394.3	1399.6
12.5°	1934.6	1907.6	1855.4	1729.3	1515.0	1480.7	1419.4	1374.4	1370.8	1379.9	1428.5
15°	1913.0	1887.8	1826.5	1628.4	1439.3	1414.1	1370.8	1354.6	1374.4	1437.4	1583.4
17.5°	1891.4	1862.6	1787.0	1529.4	1381.6	1363.6	1332.9	1365.4	1477.1	1561.8	1610.4
20°	1862.6	1828.3	1741.9	1457.3	1340.2	1324.0	1309.6	1455.5	1540.1	1570.7	1597.8
22.5°	1828.3	1792.3	1680.7	1406.8	1296.9	1284.3	1293.4	1505.9	1540.1	1561.8	1585.1
25°	1783.3	1752.7	1608.6	1367.2	1262.7	1248.3	1282.5	1500.5	1520.3	1525.7	1572.5
27.5°	1741.9	1702.3	1533.0	1331.1	1221.3	1215.9	1291.6	1477.1	1491.5	1496.9	1547.4
30°	1691.4	1632.0	1448.3	1293.4	1178.1	1176.3	1293.4	1448.3	1444.7	1459.1	1509.5
32.5°	1639.2	1527.5	1352.8	1246.5	1136.6	1134.8	1280.7	1405.0	1401.4	1421.2	1459.1
35°	1590.6	1446.5	1223.1	1192.5	1084.4	1086.2	1250.1	1354.6	1356.4	1374.4	1397.9
37.5°	1540.1	1376.2	1080.8	1133.0	1034.0	1034.0	1208.7	1307.8	1304.2	1309.6	1342.0
40°	1480.7	1266.3	954.7	1055.6	987.2	981.7	1158.3	1257.3	1244.8	1243.0	1287.9
42.5°	1417.6	1145.6	861.0	952.9	933.1	925.8	1097.0	1196.0	1172.7	1178.1	1235.7
45°	1349.2	1113.2	788.9	805.2	877.2	871.9	1030.3	1125.9	1109.6	1124.1	1183.5
47.5°	1280.7	1048.4	765.6	668.3	817.8	816.0	956.5	1057.4	1048.4	1062.8	1125.9
50°	1187.1	976.3	763.8	572.8	751.2	758.3	868.3	990.8	990.8	1003.4	1070.0
52.5°	1066.4	888.1	693.5	518.7	673.7	695.3	790.7	933.1	936.7	949.3	1008.7
55°	956.5	796.2	643.1	477.4	581.9	628.7	715.1	873.6	880.8	893.4	947.5
57.5°	855.6	662.9	632.3	428.7	497.2	542.2	648.5	816.0	819.6	830.4	882.7
60°	747.6	479.2	580.1	376.5	423.3	457.5	587.2	747.6	760.1	767.4	812.4
62.5°	625.0	347.6	526.0	340.5	387.3	394.5	536.8	682.7	698.9	704.3	731.4
65°	445.0	291.8	446.8	309.9	349.4	351.2	482.8	616.1	630.5	639.4	659.3
67.5°	300.8	237.8	340.5	281.0	320.6	322.4	430.6	538.6	558.4	565.7	578.2
70°	209.0	158.6	252.2	250.4	288.2	291.8	374.7	468.3	486.3	491.8	499.0
72.5°	153.1	127.9	209.0	225.2	254.0	257.6	317.0	389.1	407.1	412.5	416.1
75°	117.1	135.1	169.3	196.3	216.1	217.9	259.4	317.0	329.7	333.2	335.0
77.5°	93.6	126.1	124.3	158.6	176.6	172.9	203.6	245.0	255.8	255.8	255.8
80°	70.3	99.1	93.6	113.5	129.7	126.1	145.9	174.8	178.3	181.9	180.1
82.5°	52.2	63.0	63.0	72.1	86.5	82.9	97.2	113.5	113.5	113.5	117.1
85°	32.4	36.0	28.8	37.9	48.6	46.8	54.1	61.2	63.0	63.0	59.4
87.5°	19.8	16.2	9.0	14.4	21.6	21.6	25.2	27.0	25.2	25.2	25.2
90°	29.0	20.1	11.2	20.1	29.0	31.2	49.2	73.0	84.9	75.5	56.6
92.5°	196.6	120.6	44.7	120.6	196.6	215.6	303.2	419.8	478.2	419.1	300.9
95°	385.3	246.3	107.3	246.3	385.3	420.1	745.9	1180.4	1397.6	1247.2	946.3
97.5°	430.7	308.1	185.4	308.1	430.7	461.4	1004.7	1729.1	2091.4	1996.3	1806.1
100°	468.2	357.0	245.8	357.0	468.2	496.0	1098.9	1902.8	2304.8	2311.8	2325.7
102.5°	504.7	400.9	297.2	400.9	504.7	530.7	1142.1	1957.5	2365.1	2486.3	2728.6
105°	560.1	472.2	384.4	472.2	560.1	582.0	1174.2	1963.7	2358.4	2630.1	3173.3
107.5°	637.6	555.6	473.7	555.6	637.6	658.1	1180.1	1876.2	2224.3	2603.2	3360.9
110°	682.0	608.0	534.1	608.0	682.0	700.5	1171.2	1798.8	2112.6	2536.2	3383.2



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	734.2	663.8	593.2	663.8	734.2	751.9	1171.6	1731.2	2011.0	2444.5	3311.4
115°	812.7	747.7	682.6	747.7	812.7	829.0	1182.3	1653.6	1889.2	2306.8	3141.9
117.5°	889.0	830.0	770.9	830.0	889.0	903.8	1204.4	1605.0	1805.4	2182.2	2936.0
120°	933.5	877.9	822.3	877.9	933.5	947.4	1222.3	1588.7	1771.9	2116.2	2804.9
122.5°	984.8	928.7	872.6	928.7	984.8	998.8	1248.0	1580.1	1746.2	2056.3	2676.4
125°	1051.9	1000.8	949.7	1000.8	1051.9	1064.7	1282.5	1573.1	1718.3	1981.7	2508.5
127.5°	1115.5	1063.8	1012.2	1063.8	1115.5	1128.4	1317.2	1568.9	1694.8	1921.0	2373.3
130°	1156.9	1101.3	1045.7	1101.3	1156.9	1170.8	1342.5	1571.5	1685.9	1887.2	2289.9
132.5°	1191.6	1136.0	1080.4	1136.0	1191.6	1205.4	1362.9	1573.0	1678.0	1858.2	2218.8
135°	1233.0	1182.3	1131.8	1182.3	1233.0	1245.6	1385.3	1571.5	1664.7	1815.6	2117.4
137.5°	1284.5	1234.4	1184.2	1234.4	1284.5	1297.0	1418.8	1581.2	1662.4	1790.0	2045.3
140°	1320.1	1274.0	1227.8	1274.0	1320.1	1331.7	1439.3	1582.8	1654.5	1764.7	1985.3
142.5°	1346.7	1304.0	1261.3	1304.0	1346.7	1357.4	1456.4	1588.5	1654.5	1751.4	1945.1
145°	1387.2	1350.0	1312.7	1350.0	1387.2	1396.5	1478.8	1588.6	1643.4	1722.6	1881.0
147.5°	1436.6	1400.4	1364.1	1400.4	1436.6	1445.7	1511.6	1599.5	1643.4	1705.7	1830.4
150°	1463.1	1430.4	1397.6	1430.4	1463.1	1471.4	1528.7	1605.2	1643.4	1696.1	1801.3
152.5°	1481.9	1457.0	1432.2	1457.0	1481.9	1488.1	1539.8	1608.9	1643.4	1688.4	1778.2
155°	1520.4	1502.0	1483.6	1502.0	1520.4	1525.0	1564.5	1617.1	1643.4	1679.2	1750.6
157.5°	1557.4	1539.5	1521.6	1539.5	1557.4	1561.9	1589.1	1625.3	1643.4	1671.2	1726.8
160°	1575.1	1561.2	1547.3	1561.2	1575.1	1578.6	1600.2	1629.0	1643.4	1667.3	1714.9
162.5°	1593.8	1583.4	1573.0	1583.4	1593.8	1596.4	1612.1	1633.0	1643.4	1663.5	1703.7
165°	1619.8	1610.3	1600.9	1610.3	1619.8	1622.1	1629.2	1638.7	1643.4	1657.8	1686.6
167.5°	1635.6	1631.1	1626.6	1631.1	1635.6	1636.7	1642.6	1650.6	1654.5	1664.0	1682.9
170°	1652.4	1647.9	1643.4	1647.9	1652.4	1653.5	1653.8	1654.3	1654.5	1664.0	1682.9
172.5°	1654.3	1653.3	1652.3	1653.3	1654.3	1654.5	1654.5	1654.5	1654.5	1662.0	1676.9
175°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1661.3	1656.8	1654.5	1659.3	1668.7
177.5°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1662.1	1658.6	1656.8	1660.5	1668.0
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1837.4	1832.0	1839.1	1819.4	1839.1	1832.0	1837.4	1850.0	1839.1	1846.4	1853.6
5°	1612.2	1603.1	1574.4	1550.9	1574.4	1603.1	1612.2	1650.1	1668.1	1700.5	1743.7
7.5°	1441.1	1433.8	1426.7	1412.3	1426.7	1433.8	1441.1	1451.8	1469.9	1498.7	1531.2
10°	1403.2	1405.0	1415.8	1414.1	1415.8	1405.0	1403.2	1399.6	1394.3	1399.6	1419.4
12.5°	1500.5	1516.7	1576.2	1572.5	1576.2	1516.7	1500.5	1428.5	1379.9	1370.8	1374.4
15°	1612.2	1617.6	1630.2	1632.0	1630.2	1617.6	1612.2	1583.4	1437.4	1374.4	1354.6
17.5°	1623.0	1624.8	1633.8	1633.8	1633.8	1624.8	1623.0	1610.4	1561.8	1477.1	1365.4
20°	1614.0	1617.6	1635.6	1639.2	1635.6	1617.6	1614.0	1597.8	1570.7	1540.1	1455.5
22.5°	1610.4	1617.6	1632.0	1630.2	1632.0	1617.6	1610.4	1585.1	1561.8	1540.1	1505.9
25°	1592.4	1592.4	1594.2	1596.0	1594.2	1592.4	1592.4	1572.5	1525.7	1520.3	1500.5
27.5°	1554.5	1558.1	1568.9	1567.2	1568.9	1558.1	1554.5	1547.4	1496.9	1491.5	1477.1
30°	1520.3	1516.7	1507.7	1500.5	1507.7	1516.7	1520.3	1509.5	1459.1	1444.7	1448.3
32.5°	1462.7	1453.6	1444.7	1439.3	1444.7	1453.6	1462.7	1459.1	1421.2	1401.4	1405.0
35°	1394.3	1396.1	1394.3	1388.8	1394.3	1396.1	1394.3	1397.9	1374.4	1356.4	1354.6
37.5°	1345.6	1349.2	1347.4	1340.2	1347.4	1349.2	1345.6	1342.0	1309.6	1304.2	1307.8
40°	1295.2	1296.9	1295.2	1289.8	1295.2	1296.9	1295.2	1287.9	1243.0	1244.8	1257.3
42.5°	1246.5	1244.8	1239.3	1235.7	1239.3	1244.8	1246.5	1235.7	1178.1	1172.7	1196.0
45°	1190.7	1192.5	1181.6	1176.3	1181.6	1192.5	1190.7	1183.5	1124.1	1109.6	1125.9
47.5°	1134.8	1134.8	1125.9	1120.4	1125.9	1134.8	1134.8	1125.9	1062.8	1048.4	1057.4
50°	1075.4	1073.6	1060.9	1059.2	1060.9	1073.6	1075.4	1070.0	1003.4	990.8	990.8
52.5°	1007.0	1007.0	1008.7	1012.3	1008.7	1007.0	1007.0	1008.7	949.3	936.7	933.1
55°	947.5	949.3	961.9	965.5	961.9	949.3	947.5	947.5	893.4	880.8	873.6
57.5°	886.3	886.3	895.2	895.2	895.2	886.3	886.3	882.7	830.4	819.6	816.0
60°	816.0	819.6	826.8	825.0	826.8	819.6	816.0	812.4	767.4	760.1	747.6
62.5°	742.1	745.8	747.6	743.9	747.6	745.8	742.1	731.4	704.3	698.9	682.7
65°	664.7	668.3	670.1	666.5	670.1	668.3	664.7	659.3	639.4	630.5	616.1
67.5°	585.4	583.7	581.9	589.0	581.9	583.7	585.4	578.2	565.7	558.4	538.6
70°	504.3	504.3	502.5	506.2	502.5	504.3	504.3	499.0	491.8	486.3	468.3
72.5°	417.9	416.1	423.3	417.9	423.3	416.1	417.9	416.1	412.5	407.1	389.1
75°	333.2	336.8	333.2	338.6	333.2	336.8	333.2	335.0	333.2	329.7	317.0
77.5°	254.0	257.6	254.0	254.0	254.0	257.6	254.0	255.8	255.8	255.8	245.0
80°	180.1	178.3	178.3	176.6	178.3	178.3	180.1	180.1	181.9	178.3	174.8
82.5°	115.3	113.5	113.5	117.1	113.5	113.5	115.3	117.1	113.5	113.5	113.5
85°	63.0	64.8	61.2	61.2	61.2	64.8	63.0	59.4	63.0	63.0	61.2
87.5°	23.5	21.6	21.6	21.6	21.6	21.6	23.5	25.2	25.2	25.2	27.0
90°	42.4	42.4	42.4	42.4	42.4	42.4	42.4	56.6	75.5	84.9	73.0
92.5°	212.3	203.9	170.0	136.3	170.0	203.9	212.3	300.9	419.1	478.2	419.8
95°	720.5	694.9	592.7	490.5	592.7	694.9	720.5	946.3	1247.2	1397.6	1180.4
97.5°	1663.5	1614.9	1420.2	1225.6	1420.2	1614.9	1663.5	1806.1	1996.3	2091.4	1729.1
100°	2336.0	2278.1	2046.2	1814.3	2046.2	2278.1	2336.0	2325.7	2311.8	2304.8	1902.8
102.5°	2910.3	2860.6	2662.0	2463.5	2662.0	2860.6	2910.3	2728.6	2486.3	2365.1	1957.5
105°	3580.6	3553.9	3447.1	3340.4	3447.1	3553.9	3580.6	3173.3	2630.1	2358.4	1963.7
107.5°	3929.2	3935.6	3961.5	3987.3	3961.5	3935.6	3929.2	3360.9	2603.2	2224.3	1876.2
110°	4018.5	4046.4	4157.6	4268.8	4157.6	4046.4	4018.5	3383.2	2536.2	2112.6	1798.8



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3961.6	4004.3	4175.1	4345.9	4175.1	4004.3	3961.6	3311.4	2444.5	2011.0	1731.2
115°	3768.3	3827.5	4064.4	4301.2	4064.4	3827.5	3768.3	3141.9	2306.8	1889.2	1653.6
117.5°	3501.3	3566.9	3829.6	4092.3	3829.6	3566.9	3501.3	2936.0	2182.2	1805.4	1605.0
120°	3321.4	3385.3	3640.4	3895.7	3640.4	3385.3	3321.4	2804.9	2116.2	1771.9	1588.7
122.5°	3141.6	3204.5	3456.2	3707.9	3456.2	3204.5	3141.6	2676.4	2056.3	1746.2	1580.1
125°	2903.6	2961.5	3193.4	3425.3	3193.4	2961.5	2903.6	2508.5	1981.7	1718.3	1573.1
127.5°	2712.5	2761.4	2957.1	3152.8	2957.1	2761.4	2712.5	2373.3	1921.0	1694.8	1568.9
130°	2591.9	2637.1	2817.8	2998.6	2817.8	2637.1	2591.9	2289.9	1887.2	1685.9	1571.5
132.5°	2489.1	2529.6	2691.5	2853.4	2691.5	2529.6	2489.1	2218.8	1858.2	1678.0	1573.0
135°	2343.8	2378.8	2518.2	2657.8	2518.2	2378.8	2343.8	2117.4	1815.6	1664.7	1571.5
137.5°	2236.7	2265.2	2379.4	2493.6	2379.4	2265.2	2236.7	2045.3	1790.0	1662.4	1581.2
140°	2150.6	2177.3	2284.1	2390.8	2284.1	2177.3	2150.6	1985.3	1764.7	1654.5	1582.8
142.5°	2090.3	2113.2	2205.1	2296.9	2205.1	2113.2	2090.3	1945.1	1751.4	1654.5	1588.5
145°	1999.8	2017.1	2086.7	2156.2	2086.7	2017.1	1999.8	1881.0	1722.6	1643.4	1588.6
147.5°	1923.8	1938.3	1995.8	2053.4	1995.8	1938.3	1923.8	1830.4	1705.7	1643.4	1599.5
150°	1880.2	1891.9	1938.6	1985.3	1938.6	1891.9	1880.2	1801.3	1696.1	1643.4	1605.2
152.5°	1845.6	1854.4	1889.6	1924.9	1889.6	1854.4	1845.6	1778.2	1688.4	1643.4	1608.9
155°	1804.2	1810.1	1833.4	1856.8	1833.4	1810.1	1804.2	1750.6	1679.2	1643.4	1617.1
157.5°	1768.5	1772.6	1789.0	1805.4	1789.0	1772.6	1768.5	1726.8	1671.2	1643.4	1625.3
160°	1750.6	1752.9	1762.4	1771.9	1762.4	1752.9	1750.6	1714.9	1667.3	1643.4	1629.0
162.5°	1733.9	1736.1	1745.1	1754.0	1745.1	1736.1	1733.9	1703.7	1663.5	1643.4	1633.0
165°	1708.2	1710.5	1720.0	1729.4	1720.0	1710.5	1708.2	1686.6	1657.8	1643.4	1638.7
167.5°	1697.1	1698.0	1702.0	1705.9	1702.0	1698.0	1697.1	1682.9	1664.0	1654.5	1650.6
170°	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1697.1	1682.9	1664.0	1654.5	1654.3
172.5°	1688.1	1687.2	1683.7	1680.2	1683.7	1687.2	1688.1	1676.9	1662.0	1654.5	1654.5
175°	1675.8	1675.8	1675.8	1675.8	1675.8	1675.8	1675.8	1668.7	1659.3	1654.5	1656.8
177.5°	1673.5	1672.5	1668.6	1664.7	1668.6	1672.5	1673.5	1668.0	1660.5	1656.8	1658.6
180°	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1880.6	1889.6	1895.0	1902.2	1920.2
5°	1808.5	1842.7	1853.6	1880.6	1913.0
7.5°	1650.1	1754.5	1783.3	1848.2	1898.6
10°	1496.9	1601.4	1651.9	1804.9	1880.6
12.5°	1419.4	1480.7	1515.0	1729.3	1855.4
15°	1370.8	1414.1	1439.3	1628.4	1826.5
17.5°	1332.9	1363.6	1381.6	1529.4	1787.0
20°	1309.6	1324.0	1340.2	1457.3	1741.9
22.5°	1293.4	1284.3	1296.9	1406.8	1680.7
25°	1282.5	1248.3	1262.7	1367.2	1608.6
27.5°	1291.6	1215.9	1221.3	1331.1	1533.0
30°	1293.4	1176.3	1178.1	1293.4	1448.3
32.5°	1280.7	1134.8	1136.6	1246.5	1352.8
35°	1250.1	1086.2	1084.4	1192.5	1223.1
37.5°	1208.7	1034.0	1034.0	1133.0	1080.8
40°	1158.3	981.7	987.2	1055.6	954.7
42.5°	1097.0	925.8	933.1	952.9	861.0
45°	1030.3	871.9	877.2	805.2	788.9
47.5°	956.5	816.0	817.8	668.3	765.6
50°	868.3	758.3	751.2	572.8	763.8
52.5°	790.7	695.3	673.7	518.7	693.5
55°	715.1	628.7	581.9	477.4	643.1
57.5°	648.5	542.2	497.2	428.7	632.3
60°	587.2	457.5	423.3	376.5	580.1
62.5°	536.8	394.5	387.3	340.5	526.0
65°	482.8	351.2	349.4	309.9	446.8
67.5°	430.6	322.4	320.6	281.0	340.5
70°	374.7	291.8	288.2	250.4	252.2
72.5°	317.0	257.6	254.0	225.2	209.0
75°	259.4	217.9	216.1	196.3	169.3
77.5°	203.6	172.9	176.6	158.6	124.3
80°	145.9	126.1	129.7	113.5	93.6
82.5°	97.2	82.9	86.5	72.1	63.0
85°	54.1	46.8	48.6	37.9	28.8
87.5°	25.2	21.6	21.6	14.4	9.0
90°	49.2	31.2	29.0	20.1	11.2
92.5°	303.2	215.6	196.6	120.6	44.7
95°	745.9	420.1	385.3	246.3	107.3
97.5°	1004.7	461.4	430.7	308.1	185.4
100°	1098.9	496.0	468.2	357.0	245.8
102.5°	1142.1	530.7	504.7	400.9	297.2
105°	1174.2	582.0	560.1	472.2	384.4
107.5°	1180.1	658.1	637.6	555.6	473.7
110°	1171.2	700.5	682.0	608.0	534.1



TEST NUMBER: P935054

CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1171.6	751.9	734.2	663.8	593.2
115°	1182.3	829.0	812.7	747.7	682.6
117.5°	1204.4	903.8	889.0	830.0	770.9
120°	1222.3	947.4	933.5	877.9	822.3
122.5°	1248.0	998.8	984.8	928.7	872.6
125°	1282.5	1064.7	1051.9	1000.8	949.7
127.5°	1317.2	1128.4	1115.5	1063.8	1012.2
130°	1342.5	1170.8	1156.9	1101.3	1045.7
132.5°	1362.9	1205.4	1191.6	1136.0	1080.4
135°	1385.3	1245.6	1233.0	1182.3	1131.8
137.5°	1418.8	1297.0	1284.5	1234.4	1184.2
140°	1439.3	1331.7	1320.1	1274.0	1227.8
142.5°	1456.4	1357.4	1346.7	1304.0	1261.3
145°	1478.8	1396.5	1387.2	1350.0	1312.7
147.5°	1511.6	1445.7	1436.6	1400.4	1364.1
150°	1528.7	1471.4	1463.1	1430.4	1397.6
152.5°	1539.8	1488.1	1481.9	1457.0	1432.2
155°	1564.5	1525.0	1520.4	1502.0	1483.6
157.5°	1589.1	1561.9	1557.4	1539.5	1521.6
160°	1600.2	1578.6	1575.1	1561.2	1547.3
162.5°	1612.1	1596.4	1593.8	1583.4	1573.0
165°	1629.2	1622.1	1619.8	1610.3	1600.9
167.5°	1642.6	1636.7	1635.6	1631.1	1626.6
170°	1653.8	1653.5	1652.4	1647.9	1643.4
172.5°	1654.5	1654.5	1654.3	1653.3	1652.3
175°	1661.3	1664.7	1664.7	1664.7	1664.7
177.5°	1662.1	1664.7	1664.7	1664.7	1664.7
180°	1664.7	1664.7	1664.7	1664.7	1664.7



TEST NUMBER: P935054  
 CATALOG NUMBER: SQ4-FA-100U-050D-93050-1D-UNV-STD-W-12-3500K

**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	8.95	9.66	10.05	10.76	12.28	11.80	12.52	12.90	13.61	15.13
	3H	9.41	10.06	10.52	11.16	12.69	13.14	13.78	14.25	14.89	16.42
	4H	9.60	10.21	10.72	11.31	12.85	13.58	14.19	14.70	15.30	16.84
	6H	9.71	10.27	10.84	11.38	12.93	13.86	14.42	14.99	15.54	17.08
	8H	9.71	10.24	10.84	11.36	12.91	13.94	14.47	15.07	15.60	17.14
	12H	9.67	10.18	10.81	11.30	12.86	13.97	14.48	15.11	15.60	17.16
4H	2H	9.97	10.58	11.10	11.68	13.22	12.19	12.80	13.32	13.91	15.44
	3H	10.98	11.49	12.12	12.62	14.17	13.69	14.20	14.82	15.33	16.88
	4H	11.25	11.72	12.39	12.84	14.41	14.21	14.68	15.35	15.80	17.37
	6H	11.37	11.77	12.51	12.91	14.47	14.58	14.98	15.72	16.12	17.68
	8H	11.37	11.74	12.51	12.88	14.46	14.68	15.06	15.83	16.19	17.77
	12H	11.33	11.67	12.49	12.82	14.40	14.74	15.07	15.90	16.22	17.81
8H	4H	11.70	12.07	12.84	13.21	14.78	14.33	14.70	15.47	15.84	17.41
	6H	11.95	12.26	13.12	13.44	15.01	14.76	15.07	15.93	16.25	17.82
	8H	11.99	12.26	13.16	13.42	15.01	14.92	15.19	16.09	16.34	17.94
	12H	11.97	12.21	13.14	13.36	14.99	15.01	15.25	16.19	16.40	18.03
12H	4H	11.70	12.03	12.86	13.18	14.77	14.28	14.62	15.44	15.77	17.35
	6H	12.01	12.28	13.18	13.44	15.03	14.76	15.03	15.93	16.19	17.78
	8H	12.07	12.31	13.25	13.46	15.09	14.92	15.15	16.09	16.31	17.94