

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: P935829

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935829
REPORT IS A COMBINATION OF REPORTS P933769 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

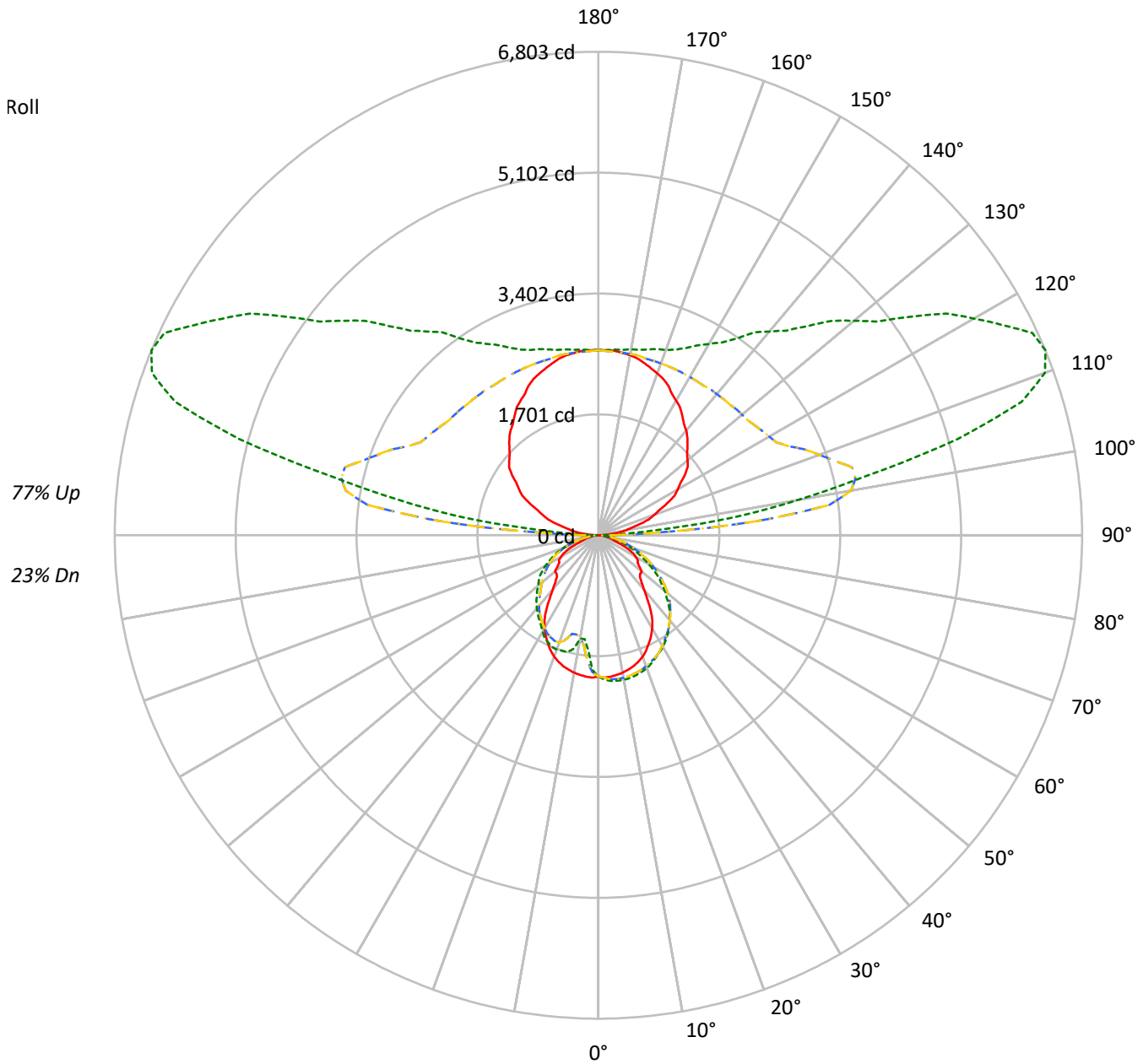
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22057.2 lumens
Efficiency: N/A
Efficacy: 132.2 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): 166.8
Input Voltage (V): NR
Input Current (A_{in}): 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: P935829
CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

Luminous Intensity Polar Plot



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



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6148	6148	6148	6148
5°	6197	6207	6197	4880
10°	6157	6114	6157	4371
15°	6093	5981	6093	4994
20°	5968	5825	5968	5005
25°	5709	5596	5709	4899
30°	5374	5405	5374	4666
35°	4794	5165	4794	4410
40°	3996	4882	3996	4217
45°	3573	4551	3573	3994
50°	3799	4156	3799	3771
55°	3578	3731	3578	3642
60°	3693	3168	3693	3336
65°	3354	2619	3354	2928
70°	2328	2087	2328	2454
75°	2049	1543	2049	1847
80°	1663	1020	1663	1111
85°	975	540	975	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 6495 cd/sqm



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.4	0.8
10°-20°	509.5	2.3
20°-30°	787.5	3.6
30°-40°	940.1	4.3
40°-50°	945.7	4.3
50°-60°	822.8	3.7
60°-70°	583.4	2.6
70°-80°	308.7	1.4
80°-90°	86.8	0.4
90°-100°	1270.3	5.8
100°-110°	3339.6	15.1
110°-120°	3462.8	15.7
120°-130°	2777.6	12.6
130°-140°	2179.4	9.9
140°-150°	1672.8	7.6
150°-160°	1204.7	5.5
160°-170°	737.1	3.3
170°-180°	249.0	1.1
0°-30°	1476.4	6.7
0°-40°	2416.6	11.0
0°-60°	4185.0	19.0
0°-90°	5163.9	23.4
90°-120°	8072.7	36.6
90°-150°	14702.4	66.7
90°-180°	16893.0	76.6
0°-180°	22057.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1988	1988	1988	1988	1988	
5°	1997	2059	1997	1619	1997	189
15°	1907	2040	1907	1704	1907	537
25°	1679	1903	1679	1666	1679	771
35°	1277	1698	1277	1450	1277	790
45°	824	1399	824	1228	824	660
55°	671	1032	671	1008	671	617
65°	466	622	466	696	466	446
75°	177	295	177	354	177	186
85°	30	75	30	64	30	41
90°	18	66	18	66	18	16
95°	168	768	168	768	168	186
105°	602	5229	602	5229	602	638
115°	1069	6733	1069	6733	1069	1055
125°	1487	5362	1487	5362	1487	1320
135°	1772	4161	1772	4161	1772	1371
145°	2055	3376	2055	3376	2055	1287
155°	2323	2907	2323	2907	2323	1067
165°	2506	2707	2506	2707	2506	707
175°	2606	2623	2606	2623	2606	247
180°	2606	2606	2606	2606	2606	



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	2004.7	2004.7	2016.0	2019.7	2019.7	2014.1	2008.5	2014.1	2031.0	2036.6	2034.8
5°	1997.2	2012.2	2032.9	2036.6	2040.5	2038.6	2034.8	2038.6	2057.4	2061.1	2063.0
7.5°	1982.1	2010.4	2036.6	2042.3	2047.9	2042.3	2040.5	2044.2	2063.0	2066.7	2066.7
10°	1963.3	2002.8	2032.9	2036.6	2042.3	2036.6	2036.6	2044.2	2063.0	2066.7	2068.7
12.5°	1937.0	1991.6	2019.7	2023.5	2031.0	2029.2	2027.3	2034.8	2053.6	2057.4	2057.4
15°	1906.9	1970.8	1997.2	2000.9	2014.1	2010.4	2010.4	2017.8	2038.6	2044.2	2042.3
17.5°	1865.6	1944.6	1974.7	1980.3	1989.7	1987.7	1989.7	1997.2	2016.0	2019.7	2021.7
20°	1818.6	1908.8	1944.6	1950.2	1959.6	1959.6	1959.6	1969.0	1987.7	1995.3	1995.3
22.5°	1754.6	1871.2	1908.8	1912.6	1923.8	1923.8	1927.6	1940.7	1957.6	1959.6	1959.6
25°	1679.4	1829.8	1861.7	1873.1	1884.4	1890.0	1895.7	1903.2	1908.8	1906.9	1908.8
27.5°	1600.4	1777.2	1818.6	1826.0	1841.1	1846.7	1854.3	1856.1	1858.0	1863.6	1859.9
30°	1512.0	1703.8	1765.8	1773.4	1797.8	1801.6	1794.1	1797.8	1807.3	1811.0	1814.7
32.5°	1412.3	1594.7	1711.4	1728.3	1750.8	1739.6	1737.6	1743.3	1758.4	1758.4	1762.1
35°	1276.9	1510.1	1660.6	1675.6	1692.6	1679.4	1686.9	1688.7	1698.2	1703.8	1701.9
37.5°	1128.4	1436.7	1607.9	1619.2	1632.4	1615.5	1626.7	1632.4	1639.8	1636.1	1636.1
40°	996.7	1322.0	1545.8	1553.4	1564.6	1551.5	1562.7	1566.6	1570.3	1566.6	1564.6
42.5°	898.9	1196.0	1480.0	1489.5	1481.9	1491.3	1495.1	1502.6	1496.9	1489.5	1489.5
45°	823.7	1162.2	1408.6	1419.8	1408.6	1423.7	1429.3	1429.3	1412.3	1408.6	1406.6
47.5°	799.3	1094.5	1337.1	1337.1	1331.5	1350.3	1359.6	1346.5	1329.6	1323.9	1323.9
50°	797.4	1019.3	1239.3	1231.8	1258.1	1280.6	1271.3	1258.1	1244.9	1224.3	1224.3
52.5°	724.0	927.1	1113.3	1141.6	1182.9	1196.0	1181.0	1167.8	1145.3	1135.9	1128.4
55°	671.4	831.2	998.5	1055.0	1098.3	1115.2	1087.0	1073.8	1040.0	1034.3	1030.6
57.5°	660.1	692.1	893.3	964.7	1017.4	1015.6	998.5	974.2	945.9	940.3	938.4
60°	605.6	500.3	780.5	865.1	919.6	914.0	898.9	876.4	850.0	846.3	842.5
62.5°	549.1	362.9	652.5	748.5	825.5	823.7	810.6	776.6	757.9	748.5	740.9
65°	466.4	304.6	464.5	622.5	733.5	737.2	709.0	684.6	663.8	652.5	650.6
67.5°	355.5	248.3	314.1	519.0	645.0	641.3	605.6	594.3	567.9	562.3	551.0
70°	263.3	165.5	218.2	421.3	558.6	549.1	520.9	507.7	483.3	470.2	462.6
72.5°	218.2	133.5	159.8	327.2	470.2	458.8	434.5	419.4	398.7	387.4	379.9
75°	176.8	141.0	122.3	242.6	381.7	374.3	351.6	336.6	319.7	304.6	306.5
77.5°	129.7	131.6	97.8	178.6	302.8	291.5	278.4	259.6	252.0	236.9	236.9
80°	97.8	103.5	73.4	122.3	218.2	218.2	206.9	193.7	180.5	173.0	173.0
82.5°	65.8	65.8	54.5	77.1	148.5	142.9	135.4	131.6	124.1	120.4	120.4
85°	30.1	37.6	33.8	47.0	80.9	84.6	84.6	80.9	79.0	75.2	77.1
87.5°	9.4	16.9	20.7	26.4	41.4	43.3	45.1	45.1	45.1	47.0	47.0
90°	17.5	31.5	45.5	49.0	76.9	114.2	132.9	118.1	88.6	66.5	66.5
92.5°	69.9	188.8	307.8	337.5	474.6	657.2	748.5	656.0	471.0	332.3	319.1
95°	167.9	385.5	603.2	657.6	1167.7	1847.9	2188.0	1952.4	1481.4	1128.1	1088.1
97.5°	290.3	482.3	674.3	722.3	1572.9	2707.0	3274.0	3125.2	2827.5	2604.2	2528.0
100°	384.7	558.9	733.0	776.6	1720.4	2978.8	3608.1	3618.9	3640.7	3657.0	3566.3
102.5°	465.2	627.7	790.1	830.8	1788.0	3064.3	3702.6	3892.2	4271.5	4556.0	4478.3
105°	601.7	739.3	876.8	911.2	1838.2	3074.1	3692.0	4117.2	4967.6	5605.3	5563.6
107.5°	741.6	869.8	998.1	1030.1	1847.4	2937.2	3482.2	4075.2	5261.4	6151.0	6161.1
110°	836.0	951.8	1067.6	1096.6	1833.5	2816.0	3307.3	3970.4	5296.4	6290.9	6334.5



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	928.7	1039.1	1149.5	1177.1	1834.1	2710.1	3148.1	3826.7	5183.9	6201.8	6268.6
115°	1068.6	1170.4	1272.3	1297.7	1851.0	2588.7	2957.5	3611.2	4918.6	5899.2	5991.9
117.5°	1206.8	1299.2	1391.8	1414.9	1885.3	2512.6	2826.3	3416.3	4596.2	5481.2	5584.0
120°	1287.2	1374.3	1461.3	1483.1	1913.3	2487.0	2773.8	3312.9	4391.0	5199.6	5299.5
122.5°	1365.9	1453.7	1541.6	1563.6	1953.6	2473.6	2733.6	3219.0	4189.9	4918.0	5016.6
125°	1486.6	1566.7	1646.8	1666.8	2007.8	2462.6	2689.9	3102.3	3927.0	4545.5	4636.2
127.5°	1584.5	1665.4	1746.2	1766.4	2062.0	2456.1	2653.2	3007.2	3715.4	4246.5	4323.0
130°	1637.0	1724.1	1811.1	1832.9	2101.6	2460.0	2639.1	2954.3	3584.8	4057.6	4128.3
132.5°	1691.3	1778.3	1865.3	1887.1	2133.7	2462.5	2626.9	2909.1	3473.5	3896.7	3960.1
135°	1771.6	1850.9	1930.3	1950.1	2168.7	2460.2	2606.0	2842.3	3314.8	3669.3	3723.9
137.5°	1853.9	1932.4	2010.9	2030.6	2221.1	2475.3	2602.4	2802.2	3201.7	3501.4	3546.1
140°	1922.1	1994.4	2066.7	2084.8	2253.2	2477.8	2590.2	2762.7	3107.9	3366.7	3408.5
142.5°	1974.6	2041.4	2108.2	2125.0	2280.0	2486.8	2590.2	2741.8	3044.9	3272.3	3308.3
145°	2055.0	2113.4	2171.6	2186.2	2315.0	2486.8	2572.7	2696.6	2944.6	3130.6	3157.8
147.5°	2135.4	2192.2	2248.9	2263.1	2366.3	2503.9	2572.7	2670.3	2865.3	3011.7	3034.2
150°	2188.0	2239.3	2290.6	2303.4	2393.1	2512.9	2572.7	2655.1	2819.9	2943.5	2961.7
152.5°	2242.2	2281.1	2319.8	2329.6	2410.6	2518.7	2572.7	2643.1	2783.7	2889.3	2903.1
155°	2322.7	2351.4	2380.1	2387.3	2449.1	2531.5	2572.7	2628.7	2740.7	2824.6	2833.7
157.5°	2382.1	2410.0	2438.0	2445.0	2487.5	2544.3	2572.7	2616.2	2703.3	2768.6	2775.0
160°	2422.3	2444.1	2465.8	2471.3	2505.1	2550.2	2572.7	2610.0	2684.6	2740.6	2744.3
162.5°	2462.5	2478.8	2495.1	2499.2	2523.7	2556.3	2572.7	2604.2	2667.2	2714.4	2717.8
165°	2506.2	2521.0	2535.8	2539.5	2550.5	2565.3	2572.7	2595.2	2640.3	2674.1	2677.8
167.5°	2546.5	2553.5	2560.4	2562.2	2571.6	2584.0	2590.2	2604.9	2634.5	2656.6	2658.2
170°	2572.7	2579.7	2586.7	2588.5	2589.0	2589.8	2590.2	2604.9	2634.5	2656.6	2656.6
172.5°	2586.7	2588.2	2589.8	2590.2	2590.2	2590.2	2590.2	2601.8	2625.2	2642.7	2641.3
175°	2606.0	2606.0	2606.0	2606.0	2600.7	2593.7	2590.2	2597.5	2612.3	2623.4	2623.4
177.5°	2606.0	2606.0	2606.0	2606.0	2601.8	2596.4	2593.7	2599.5	2611.2	2619.9	2618.3
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	2038.6	2032.9	2038.6	2034.8	2036.6	2031.0	2014.1	2008.5	2014.1	2019.7	2019.7
5°	2063.0	2059.3	2063.0	2063.0	2061.1	2057.4	2038.6	2034.8	2038.6	2040.5	2036.6
7.5°	2070.6	2064.9	2070.6	2066.7	2066.7	2063.0	2044.2	2040.5	2042.3	2047.9	2042.3
10°	2070.6	2064.9	2070.6	2068.7	2066.7	2063.0	2044.2	2036.6	2036.6	2042.3	2036.6
12.5°	2061.1	2057.4	2061.1	2057.4	2057.4	2053.6	2034.8	2027.3	2029.2	2031.0	2023.5
15°	2046.1	2040.5	2046.1	2042.3	2044.2	2038.6	2017.8	2010.4	2010.4	2014.1	2000.9
17.5°	2023.5	2016.0	2023.5	2021.7	2019.7	2016.0	1997.2	1989.7	1987.7	1989.7	1980.3
20°	1997.2	1991.6	1997.2	1995.3	1995.3	1987.7	1969.0	1959.6	1959.6	1959.6	1950.2
22.5°	1955.8	1950.2	1955.8	1959.6	1959.6	1957.6	1940.7	1927.6	1923.8	1923.8	1912.6
25°	1908.8	1903.2	1908.8	1908.8	1906.9	1908.8	1903.2	1895.7	1890.0	1884.4	1873.1
27.5°	1863.6	1859.9	1863.6	1859.9	1863.6	1858.0	1856.1	1854.3	1846.7	1841.1	1826.0
30°	1818.6	1814.7	1818.6	1814.7	1811.0	1807.3	1797.8	1794.1	1801.6	1797.8	1773.4
32.5°	1762.1	1758.4	1762.1	1762.1	1758.4	1758.4	1743.3	1737.6	1739.6	1750.8	1728.3
35°	1703.8	1698.2	1703.8	1701.9	1703.8	1698.2	1688.7	1686.9	1679.4	1692.6	1675.6
37.5°	1636.1	1630.5	1636.1	1636.1	1636.1	1639.8	1632.4	1626.7	1615.5	1632.4	1619.2
40°	1566.6	1559.0	1566.6	1564.6	1566.6	1570.3	1566.6	1562.7	1551.5	1564.6	1553.4
42.5°	1487.6	1485.6	1487.6	1489.5	1489.5	1496.9	1502.6	1495.1	1491.3	1481.9	1489.5
45°	1402.9	1399.2	1402.9	1406.6	1408.6	1412.3	1429.3	1429.3	1423.7	1408.6	1419.8
47.5°	1312.6	1303.3	1312.6	1323.9	1323.9	1329.6	1346.5	1359.6	1350.3	1331.5	1337.1
50°	1216.7	1218.6	1216.7	1224.3	1224.3	1244.9	1258.1	1271.3	1280.6	1258.1	1231.8
52.5°	1122.7	1120.8	1122.7	1128.4	1135.9	1145.3	1167.8	1181.0	1196.0	1182.9	1141.6
55°	1028.6	1032.5	1028.6	1030.6	1034.3	1040.0	1073.8	1087.0	1115.2	1098.3	1055.0
57.5°	934.6	929.0	934.6	938.4	940.3	945.9	974.2	998.5	1015.6	1017.4	964.7
60°	825.5	818.1	825.5	842.5	846.3	850.0	876.4	898.9	914.0	919.6	865.1
62.5°	729.6	716.5	729.6	740.9	748.5	757.9	776.6	810.6	823.7	825.5	748.5
65°	628.1	622.5	628.1	650.6	652.5	663.8	684.6	709.0	737.2	733.5	622.5
67.5°	536.0	536.0	536.0	551.0	562.3	567.9	594.3	605.6	641.3	645.0	519.0
70°	451.4	449.5	451.4	462.6	470.2	483.3	507.7	520.9	549.1	558.6	421.3
72.5°	370.5	368.6	370.5	379.9	387.4	398.7	419.4	434.5	458.8	470.2	327.2
75°	299.0	295.3	299.0	306.5	304.6	319.7	336.6	351.6	374.3	381.7	242.6
77.5°	229.5	229.5	229.5	236.9	236.9	252.0	259.6	278.4	291.5	302.8	178.6
80°	171.1	169.3	171.1	173.0	173.0	180.5	193.7	206.9	218.2	218.2	122.3
82.5°	120.4	116.6	120.4	120.4	120.4	124.1	131.6	135.4	142.9	148.5	77.1
85°	75.2	75.2	75.2	77.1	75.2	79.0	80.9	84.6	84.6	80.9	47.0
87.5°	48.9	47.0	48.9	47.0	47.0	45.1	45.1	45.1	43.3	41.4	26.4
90°	66.5	66.5	66.5	66.5	66.5	88.6	118.1	132.9	114.2	76.9	49.0
92.5°	266.2	213.4	266.2	319.1	332.3	471.0	656.0	748.5	657.2	474.6	337.5
95°	927.9	767.8	927.9	1088.1	1128.1	1481.4	1952.4	2188.0	1847.9	1167.7	657.6
97.5°	2223.3	1918.6	2223.3	2528.0	2604.2	2827.5	3125.2	3274.0	2707.0	1572.9	722.3
100°	3203.3	2840.3	3203.3	3566.3	3657.0	3640.7	3618.9	3608.1	2978.8	1720.4	776.6
102.5°	4167.4	3856.4	4167.4	4478.3	4556.0	4271.5	3892.2	3702.6	3064.3	1788.0	830.8
105°	5396.5	5229.4	5396.5	5563.6	5605.3	4967.6	4117.2	3692.0	3074.1	1838.2	911.2
107.5°	6201.6	6242.0	6201.6	6161.1	6151.0	5261.4	4075.2	3482.2	2937.2	1847.4	1030.1
110°	6508.6	6682.8	6508.6	6334.5	6290.9	5296.4	3970.4	3307.3	2816.0	1833.5	1096.6



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6536.0	6803.4	6536.0	6268.6	6201.8	5183.9	3826.7	3148.1	2710.1	1834.1	1177.1
115°	6362.6	6733.4	6362.6	5991.9	5899.2	4918.6	3611.2	2957.5	2588.7	1851.0	1297.7
117.5°	5995.2	6406.4	5995.2	5584.0	5481.2	4596.2	3416.3	2826.3	2512.6	1885.3	1414.9
120°	5699.0	6098.6	5699.0	5299.5	5199.6	4391.0	3312.9	2773.8	2487.0	1913.3	1483.1
122.5°	5410.7	5804.8	5410.7	5016.6	4918.0	4189.9	3219.0	2733.6	2473.6	1953.6	1563.6
125°	4999.3	5362.3	4999.3	4636.2	4545.5	3927.0	3102.3	2689.9	2462.6	2007.8	1666.8
127.5°	4629.3	4935.5	4629.3	4323.0	4246.5	3715.4	3007.2	2653.2	2456.1	2062.0	1766.4
130°	4411.3	4694.2	4411.3	4128.3	4057.6	3584.8	2954.3	2639.1	2460.0	2101.6	1832.9
132.5°	4213.4	4466.8	4213.4	3960.1	3896.7	3473.5	2909.1	2626.9	2462.5	2133.7	1887.1
135°	3942.3	4160.8	3942.3	3723.9	3669.3	3314.8	2842.3	2606.0	2460.2	2168.7	1950.1
137.5°	3724.9	3903.6	3724.9	3546.1	3501.4	3201.7	2802.2	2602.4	2475.3	2221.1	2030.6
140°	3575.6	3742.7	3575.6	3408.5	3366.7	3107.9	2762.7	2590.2	2477.8	2253.2	2084.8
142.5°	3452.1	3595.8	3452.1	3308.3	3272.3	3044.9	2741.8	2590.2	2486.8	2280.0	2125.0
145°	3266.7	3375.5	3266.7	3157.8	3130.6	2944.6	2696.6	2572.7	2486.8	2315.0	2186.2
147.5°	3124.4	3214.5	3124.4	3034.2	3011.7	2865.3	2670.3	2572.7	2503.9	2366.3	2263.1
150°	3034.8	3107.9	3034.8	2961.7	2943.5	2819.9	2655.1	2572.7	2512.9	2393.1	2303.4
152.5°	2958.3	3013.4	2958.3	2903.1	2889.3	2783.7	2643.1	2572.7	2518.7	2410.6	2329.6
155°	2870.2	2906.7	2870.2	2833.7	2824.6	2740.7	2628.7	2572.7	2531.5	2449.1	2387.3
157.5°	2800.7	2826.3	2800.7	2775.0	2768.6	2703.3	2616.2	2572.7	2544.3	2487.5	2445.0
160°	2759.1	2773.8	2759.1	2744.3	2740.6	2684.6	2610.0	2572.7	2550.2	2505.1	2471.3
162.5°	2731.9	2745.9	2731.9	2717.8	2714.4	2667.2	2604.2	2572.7	2556.3	2523.7	2499.2
165°	2692.6	2707.4	2692.6	2677.8	2674.1	2640.3	2595.2	2572.7	2565.3	2550.5	2539.5
167.5°	2664.4	2670.6	2664.4	2658.2	2656.6	2634.5	2604.9	2590.2	2584.0	2571.6	2562.2
170°	2656.6	2656.6	2656.6	2656.6	2656.6	2634.5	2604.9	2590.2	2589.8	2589.0	2588.5
172.5°	2635.9	2630.4	2635.9	2641.3	2642.7	2625.2	2601.8	2590.2	2590.2	2590.2	2590.2
175°	2623.4	2623.4	2623.4	2623.4	2623.4	2612.3	2597.5	2590.2	2593.7	2600.7	2606.0
177.5°	2612.1	2606.0	2612.1	2618.3	2619.9	2611.2	2599.5	2593.7	2596.4	2601.8	2606.0
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	2016.0	2004.7	2004.7	1985.9	1978.4	1972.7	1963.3	1935.1	1927.6	1920.1	1931.4
5°	2032.9	2012.2	1997.2	1963.3	1935.1	1923.8	1888.1	1820.4	1775.3	1741.5	1722.7
7.5°	2036.6	2010.4	1982.1	1929.5	1861.7	1831.6	1722.7	1598.5	1564.6	1534.6	1515.7
10°	2032.9	2002.8	1963.3	1884.4	1724.5	1671.8	1562.7	1481.9	1461.2	1455.6	1461.2
12.5°	2019.7	1991.6	1937.0	1805.4	1581.6	1545.8	1481.9	1434.9	1431.1	1440.6	1491.3
15°	1997.2	1970.8	1906.9	1700.0	1502.6	1476.3	1431.1	1414.2	1434.9	1500.7	1653.0
17.5°	1974.7	1944.6	1865.6	1596.7	1442.4	1423.7	1391.6	1425.5	1542.1	1630.5	1681.3
20°	1944.6	1908.8	1818.6	1521.4	1399.2	1382.2	1367.2	1519.6	1607.9	1639.8	1668.1
22.5°	1908.8	1871.2	1754.6	1468.7	1354.0	1340.8	1350.3	1572.2	1607.9	1630.5	1654.9
25°	1861.7	1829.8	1679.4	1427.4	1318.3	1303.3	1339.0	1566.6	1587.2	1592.8	1641.7
27.5°	1818.6	1777.2	1600.4	1389.7	1275.0	1269.4	1348.4	1542.1	1557.1	1562.7	1615.5
30°	1765.8	1703.8	1512.0	1350.3	1229.9	1228.0	1350.3	1512.0	1508.2	1523.3	1575.9
32.5°	1711.4	1594.7	1412.3	1301.4	1186.6	1184.7	1337.1	1466.8	1463.1	1483.8	1523.3
35°	1660.6	1510.1	1276.9	1244.9	1132.1	1134.0	1305.1	1414.2	1416.1	1434.9	1459.4
37.5°	1607.9	1436.7	1128.4	1182.9	1079.5	1079.5	1261.9	1365.3	1361.6	1367.2	1401.0
40°	1545.8	1322.0	996.7	1102.0	1030.6	1024.9	1209.2	1312.6	1299.5	1297.7	1344.6
42.5°	1480.0	1196.0	898.9	994.8	974.2	966.6	1145.3	1248.7	1224.3	1229.9	1290.1
45°	1408.6	1162.2	823.7	840.6	915.8	910.2	1075.7	1175.4	1158.5	1173.5	1235.6
47.5°	1337.1	1094.5	799.3	697.7	853.8	851.9	998.5	1103.9	1094.5	1109.6	1175.4
50°	1239.3	1019.3	797.4	598.0	784.2	791.7	906.5	1034.3	1034.3	1047.5	1117.1
52.5°	1113.3	927.1	724.0	541.6	703.4	725.9	825.5	974.2	977.9	991.1	1053.1
55°	998.5	831.2	671.4	498.4	607.5	656.4	746.5	912.1	919.6	932.7	989.2
57.5°	893.3	692.1	660.1	447.5	519.0	566.1	677.0	851.9	855.6	866.9	921.5
60°	780.5	500.3	605.6	393.0	441.9	477.6	613.1	780.5	793.6	801.1	848.2
62.5°	652.5	362.9	549.1	355.5	404.4	411.8	560.4	712.7	729.6	735.3	763.6
65°	464.5	304.6	466.4	323.5	364.8	366.7	504.0	643.2	658.2	667.6	688.3
67.5°	314.1	248.3	355.5	293.4	334.7	336.6	449.5	562.3	583.0	590.5	603.6
70°	218.2	165.5	263.3	261.4	300.9	304.6	391.2	488.9	507.7	513.4	520.9
72.5°	159.8	133.5	218.2	235.1	265.2	268.9	331.0	406.2	425.0	430.6	434.5
75°	122.3	141.0	176.8	205.0	225.6	227.5	270.8	331.0	344.2	347.9	349.8
77.5°	97.8	131.6	129.7	165.5	184.3	180.5	212.6	255.7	267.0	267.0	267.0
80°	73.4	103.5	97.8	118.5	135.4	131.6	152.4	182.5	186.2	189.9	188.1
82.5°	54.5	65.8	65.8	75.2	90.3	86.6	101.5	118.5	118.5	118.5	122.3
85°	33.8	37.6	30.1	39.5	50.8	48.9	56.5	63.9	65.8	65.8	62.1
87.5°	20.7	16.9	9.4	15.0	22.5	22.5	26.4	28.2	26.4	26.4	26.4
90°	45.5	31.5	17.5	31.5	45.5	49.0	76.9	114.2	132.9	118.1	88.6
92.5°	307.8	188.8	69.9	188.8	307.8	337.5	474.6	657.2	748.5	656.0	471.0
95°	603.2	385.5	167.9	385.5	603.2	657.6	1167.7	1847.9	2188.0	1952.4	1481.4
97.5°	674.3	482.3	290.3	482.3	674.3	722.3	1572.9	2707.0	3274.0	3125.2	2827.5
100°	733.0	558.9	384.7	558.9	733.0	776.6	1720.4	2978.8	3608.1	3618.9	3640.7
102.5°	790.1	627.7	465.2	627.7	790.1	830.8	1788.0	3064.3	3702.6	3892.2	4271.5
105°	876.8	739.3	601.7	739.3	876.8	911.2	1838.2	3074.1	3692.0	4117.2	4967.6
107.5°	998.1	869.8	741.6	869.8	998.1	1030.1	1847.4	2937.2	3482.2	4075.2	5261.4
110°	1067.6	951.8	836.0	951.8	1067.6	1096.6	1833.5	2816.0	3307.3	3970.4	5296.4



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1149.5	1039.1	928.7	1039.1	1149.5	1177.1	1834.1	2710.1	3148.1	3826.7	5183.9
115°	1272.3	1170.4	1068.6	1170.4	1272.3	1297.7	1851.0	2588.7	2957.5	3611.2	4918.6
117.5°	1391.8	1299.2	1206.8	1299.2	1391.8	1414.9	1885.3	2512.6	2826.3	3416.3	4596.2
120°	1461.3	1374.3	1287.2	1374.3	1461.3	1483.1	1913.3	2487.0	2773.8	3312.9	4391.0
122.5°	1541.6	1453.7	1365.9	1453.7	1541.6	1563.6	1953.6	2473.6	2733.6	3219.0	4189.9
125°	1646.8	1566.7	1486.6	1566.7	1646.8	1666.8	2007.8	2462.6	2689.9	3102.3	3927.0
127.5°	1746.2	1665.4	1584.5	1665.4	1746.2	1766.4	2062.0	2456.1	2653.2	3007.2	3715.4
130°	1811.1	1724.1	1637.0	1724.1	1811.1	1832.9	2101.6	2460.0	2639.1	2954.3	3584.8
132.5°	1865.3	1778.3	1691.3	1778.3	1865.3	1887.1	2133.7	2462.5	2626.9	2909.1	3473.5
135°	1930.3	1850.9	1771.6	1850.9	1930.3	1950.1	2168.7	2460.2	2606.0	2842.3	3314.8
137.5°	2010.9	1932.4	1853.9	1932.4	2010.9	2030.6	2221.1	2475.3	2602.4	2802.2	3201.7
140°	2066.7	1994.4	1922.1	1994.4	2066.7	2084.8	2253.2	2477.8	2590.2	2762.7	3107.9
142.5°	2108.2	2041.4	1974.6	2041.4	2108.2	2125.0	2280.0	2486.8	2590.2	2741.8	3044.9
145°	2171.6	2113.4	2055.0	2113.4	2171.6	2186.2	2315.0	2486.8	2572.7	2696.6	2944.6
147.5°	2248.9	2192.2	2135.4	2192.2	2248.9	2263.1	2366.3	2503.9	2572.7	2670.3	2865.3
150°	2290.6	2239.3	2188.0	2239.3	2290.6	2303.4	2393.1	2512.9	2572.7	2655.1	2819.9
152.5°	2319.8	2281.1	2242.2	2281.1	2319.8	2329.6	2410.6	2518.7	2572.7	2643.1	2783.7
155°	2380.1	2351.4	2322.7	2351.4	2380.1	2387.3	2449.1	2531.5	2572.7	2628.7	2740.7
157.5°	2438.0	2410.0	2382.1	2410.0	2438.0	2445.0	2487.5	2544.3	2572.7	2616.2	2703.3
160°	2465.8	2444.1	2422.3	2444.1	2465.8	2471.3	2505.1	2550.2	2572.7	2610.0	2684.6
162.5°	2495.1	2478.8	2462.5	2478.8	2495.1	2499.2	2523.7	2556.3	2572.7	2604.2	2667.2
165°	2535.8	2521.0	2506.2	2521.0	2535.8	2539.5	2550.5	2565.3	2572.7	2595.2	2640.3
167.5°	2560.4	2553.5	2546.5	2553.5	2560.4	2562.2	2571.6	2584.0	2590.2	2604.9	2634.5
170°	2586.7	2579.7	2572.7	2579.7	2586.7	2588.5	2589.0	2589.8	2590.2	2604.9	2634.5
172.5°	2589.8	2588.2	2586.7	2588.2	2589.8	2590.2	2590.2	2590.2	2590.2	2601.8	2625.2
175°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2600.7	2593.7	2590.2	2597.5	2612.3
177.5°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2601.8	2596.4	2593.7	2599.5	2611.2
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	1918.2	1912.6	1920.1	1899.4	1920.1	1912.6	1918.2	1931.4	1920.1	1927.6	1935.1
5°	1683.1	1673.7	1643.7	1619.2	1643.7	1673.7	1683.1	1722.7	1741.5	1775.3	1820.4
7.5°	1504.5	1496.9	1489.5	1474.4	1489.5	1496.9	1504.5	1515.7	1534.6	1564.6	1598.5
10°	1465.0	1466.8	1478.1	1476.3	1478.1	1466.8	1465.0	1461.2	1455.6	1461.2	1481.9
12.5°	1566.6	1583.5	1645.5	1641.7	1645.5	1583.5	1566.6	1491.3	1440.6	1431.1	1434.9
15°	1683.1	1688.7	1701.9	1703.8	1701.9	1688.7	1683.1	1653.0	1500.7	1434.9	1414.2
17.5°	1694.4	1696.3	1705.7	1705.7	1705.7	1696.3	1694.4	1681.3	1630.5	1542.1	1425.5
20°	1685.0	1688.7	1707.6	1711.4	1707.6	1688.7	1685.0	1668.1	1639.8	1607.9	1519.6
22.5°	1681.3	1688.7	1703.8	1701.9	1703.8	1688.7	1681.3	1654.9	1630.5	1607.9	1572.2
25°	1662.5	1662.5	1664.3	1666.2	1664.3	1662.5	1662.5	1641.7	1592.8	1587.2	1566.6
27.5°	1622.9	1626.7	1638.0	1636.1	1638.0	1626.7	1622.9	1615.5	1562.7	1557.1	1542.1
30°	1587.2	1583.5	1574.0	1566.6	1574.0	1583.5	1587.2	1575.9	1523.3	1508.2	1512.0
32.5°	1527.0	1517.6	1508.2	1502.6	1508.2	1517.6	1527.0	1523.3	1483.8	1463.1	1466.8
35°	1455.6	1457.5	1455.6	1449.9	1455.6	1457.5	1455.6	1459.4	1434.9	1416.1	1414.2
37.5°	1404.8	1408.6	1406.6	1399.2	1406.6	1408.6	1404.8	1401.0	1367.2	1361.6	1365.3
40°	1352.1	1354.0	1352.1	1346.5	1352.1	1354.0	1352.1	1344.6	1297.7	1299.5	1312.6
42.5°	1301.4	1299.5	1293.8	1290.1	1293.8	1299.5	1301.4	1290.1	1229.9	1224.3	1248.7
45°	1243.1	1244.9	1233.6	1228.0	1233.6	1244.9	1243.1	1235.6	1173.5	1158.5	1175.4
47.5°	1184.7	1184.7	1175.4	1169.7	1175.4	1184.7	1184.7	1175.4	1109.6	1094.5	1103.9
50°	1122.7	1120.8	1107.6	1105.8	1107.6	1120.8	1122.7	1117.1	1047.5	1034.3	1034.3
52.5°	1051.3	1051.3	1053.1	1056.9	1053.1	1051.3	1051.3	1053.1	991.1	977.9	974.2
55°	989.2	991.1	1004.2	1008.0	1004.2	991.1	989.2	989.2	932.7	919.6	912.1
57.5°	925.3	925.3	934.6	934.6	934.6	925.3	925.3	921.5	866.9	855.6	851.9
60°	851.9	855.6	863.2	861.3	863.2	855.6	851.9	848.2	801.1	793.6	780.5
62.5°	774.8	778.6	780.5	776.6	780.5	778.6	774.8	763.6	735.3	729.6	712.7
65°	693.9	697.7	699.5	695.8	699.5	697.7	693.9	688.3	667.6	658.2	643.2
67.5°	611.2	609.3	607.5	614.9	607.5	609.3	611.2	603.6	590.5	583.0	562.3
70°	526.5	526.5	524.7	528.5	524.7	526.5	526.5	520.9	513.4	507.7	488.9
72.5°	436.3	434.5	441.9	436.3	441.9	434.5	436.3	434.5	430.6	425.0	406.2
75°	347.9	351.6	347.9	353.5	347.9	351.6	347.9	349.8	347.9	344.2	331.0
77.5°	265.2	268.9	265.2	265.2	265.2	268.9	265.2	267.0	267.0	267.0	255.7
80°	188.1	186.2	186.2	184.3	186.2	186.2	188.1	188.1	189.9	186.2	182.5
82.5°	120.4	118.5	118.5	122.3	118.5	118.5	120.4	122.3	118.5	118.5	118.5
85°	65.8	67.7	63.9	63.9	63.9	67.7	65.8	62.1	65.8	65.8	63.9
87.5°	24.5	22.5	22.5	22.5	22.5	22.5	24.5	26.4	26.4	26.4	28.2
90°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	88.6	118.1	132.9	114.2
92.5°	332.3	319.1	266.2	213.4	266.2	319.1	332.3	471.0	656.0	748.5	657.2
95°	1128.1	1088.1	927.9	767.8	927.9	1088.1	1128.1	1481.4	1952.4	2188.0	1847.9
97.5°	2604.2	2528.0	2223.3	1918.6	2223.3	2528.0	2604.2	2827.5	3125.2	3274.0	2707.0
100°	3657.0	3566.3	3203.3	2840.3	3203.3	3566.3	3657.0	3640.7	3618.9	3608.1	2978.8
102.5°	4556.0	4478.3	4167.4	3856.4	4167.4	4478.3	4556.0	4271.5	3892.2	3702.6	3064.3
105°	5605.3	5563.6	5396.5	5229.4	5396.5	5563.6	5605.3	4967.6	4117.2	3692.0	3074.1
107.5°	6151.0	6161.1	6201.6	6242.0	6201.6	6161.1	6151.0	5261.4	4075.2	3482.2	2937.2
110°	6290.9	6334.5	6508.6	6682.8	6508.6	6334.5	6290.9	5296.4	3970.4	3307.3	2816.0



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6201.8	6268.6	6536.0	6803.4	6536.0	6268.6	6201.8	5183.9	3826.7	3148.1	2710.1
115°	5899.2	5991.9	6362.6	6733.4	6362.6	5991.9	5899.2	4918.6	3611.2	2957.5	2588.7
117.5°	5481.2	5584.0	5995.2	6406.4	5995.2	5584.0	5481.2	4596.2	3416.3	2826.3	2512.6
120°	5199.6	5299.5	5699.0	6098.6	5699.0	5299.5	5199.6	4391.0	3312.9	2773.8	2487.0
122.5°	4918.0	5016.6	5410.7	5804.8	5410.7	5016.6	4918.0	4189.9	3219.0	2733.6	2473.6
125°	4545.5	4636.2	4999.3	5362.3	4999.3	4636.2	4545.5	3927.0	3102.3	2689.9	2462.6
127.5°	4246.5	4323.0	4629.3	4935.5	4629.3	4323.0	4246.5	3715.4	3007.2	2653.2	2456.1
130°	4057.6	4128.3	4411.3	4694.2	4411.3	4128.3	4057.6	3584.8	2954.3	2639.1	2460.0
132.5°	3896.7	3960.1	4213.4	4466.8	4213.4	3960.1	3896.7	3473.5	2909.1	2626.9	2462.5
135°	3669.3	3723.9	3942.3	4160.8	3942.3	3723.9	3669.3	3314.8	2842.3	2606.0	2460.2
137.5°	3501.4	3546.1	3724.9	3903.6	3724.9	3546.1	3501.4	3201.7	2802.2	2602.4	2475.3
140°	3366.7	3408.5	3575.6	3742.7	3575.6	3408.5	3366.7	3107.9	2762.7	2590.2	2477.8
142.5°	3272.3	3308.3	3452.1	3595.8	3452.1	3308.3	3272.3	3044.9	2741.8	2590.2	2486.8
145°	3130.6	3157.8	3266.7	3375.5	3266.7	3157.8	3130.6	2944.6	2696.6	2572.7	2486.8
147.5°	3011.7	3034.2	3124.4	3214.5	3124.4	3034.2	3011.7	2865.3	2670.3	2572.7	2503.9
150°	2943.5	2961.7	3034.8	3107.9	3034.8	2961.7	2943.5	2819.9	2655.1	2572.7	2512.9
152.5°	2889.3	2903.1	2958.3	3013.4	2958.3	2903.1	2889.3	2783.7	2643.1	2572.7	2518.7
155°	2824.6	2833.7	2870.2	2906.7	2870.2	2833.7	2824.6	2740.7	2628.7	2572.7	2531.5
157.5°	2768.6	2775.0	2800.7	2826.3	2800.7	2775.0	2768.6	2703.3	2616.2	2572.7	2544.3
160°	2740.6	2744.3	2759.1	2773.8	2759.1	2744.3	2740.6	2684.6	2610.0	2572.7	2550.2
162.5°	2714.4	2717.8	2731.9	2745.9	2731.9	2717.8	2714.4	2667.2	2604.2	2572.7	2556.3
165°	2674.1	2677.8	2692.6	2707.4	2692.6	2677.8	2674.1	2640.3	2595.2	2572.7	2565.3
167.5°	2656.6	2658.2	2664.4	2670.6	2664.4	2658.2	2656.6	2634.5	2604.9	2590.2	2584.0
170°	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2656.6	2634.5	2604.9	2590.2	2589.8
172.5°	2642.7	2641.3	2635.9	2630.4	2635.9	2641.3	2642.7	2625.2	2601.8	2590.2	2590.2
175°	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2623.4	2612.3	2597.5	2590.2	2593.7
177.5°	2619.9	2618.3	2612.1	2606.0	2612.1	2618.3	2619.9	2611.2	2599.5	2593.7	2596.4
180°	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0	2606.0



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	1963.3	1972.7	1978.4	1985.9	2004.7
5°	1888.1	1923.8	1935.1	1963.3	1997.2
7.5°	1722.7	1831.6	1861.7	1929.5	1982.1
10°	1562.7	1671.8	1724.5	1884.4	1963.3
12.5°	1481.9	1545.8	1581.6	1805.4	1937.0
15°	1431.1	1476.3	1502.6	1700.0	1906.9
17.5°	1391.6	1423.7	1442.4	1596.7	1865.6
20°	1367.2	1382.2	1399.2	1521.4	1818.6
22.5°	1350.3	1340.8	1354.0	1468.7	1754.6
25°	1339.0	1303.3	1318.3	1427.4	1679.4
27.5°	1348.4	1269.4	1275.0	1389.7	1600.4
30°	1350.3	1228.0	1229.9	1350.3	1512.0
32.5°	1337.1	1184.7	1186.6	1301.4	1412.3
35°	1305.1	1134.0	1132.1	1244.9	1276.9
37.5°	1261.9	1079.5	1079.5	1182.9	1128.4
40°	1209.2	1024.9	1030.6	1102.0	996.7
42.5°	1145.3	966.6	974.2	994.8	898.9
45°	1075.7	910.2	915.8	840.6	823.7
47.5°	998.5	851.9	853.8	697.7	799.3
50°	906.5	791.7	784.2	598.0	797.4
52.5°	825.5	725.9	703.4	541.6	724.0
55°	746.5	656.4	607.5	498.4	671.4
57.5°	677.0	566.1	519.0	447.5	660.1
60°	613.1	477.6	441.9	393.0	605.6
62.5°	560.4	411.8	404.4	355.5	549.1
65°	504.0	366.7	364.8	323.5	466.4
67.5°	449.5	336.6	334.7	293.4	355.5
70°	391.2	304.6	300.9	261.4	263.3
72.5°	331.0	268.9	265.2	235.1	218.2
75°	270.8	227.5	225.6	205.0	176.8
77.5°	212.6	180.5	184.3	165.5	129.7
80°	152.4	131.6	135.4	118.5	97.8
82.5°	101.5	86.6	90.3	75.2	65.8
85°	56.5	48.9	50.8	39.5	30.1
87.5°	26.4	22.5	22.5	15.0	9.4
90°	76.9	49.0	45.5	31.5	17.5
92.5°	474.6	337.5	307.8	188.8	69.9
95°	1167.7	657.6	603.2	385.5	167.9
97.5°	1572.9	722.3	674.3	482.3	290.3
100°	1720.4	776.6	733.0	558.9	384.7
102.5°	1788.0	830.8	790.1	627.7	465.2
105°	1838.2	911.2	876.8	739.3	601.7
107.5°	1847.4	1030.1	998.1	869.8	741.6
110°	1833.5	1096.6	1067.6	951.8	836.0



TEST NUMBER: P935829

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1834.1	1177.1	1149.5	1039.1	928.7
115°	1851.0	1297.7	1272.3	1170.4	1068.6
117.5°	1885.3	1414.9	1391.8	1299.2	1206.8
120°	1913.3	1483.1	1461.3	1374.3	1287.2
122.5°	1953.6	1563.6	1541.6	1453.7	1365.9
125°	2007.8	1666.8	1646.8	1566.7	1486.6
127.5°	2062.0	1766.4	1746.2	1665.4	1584.5
130°	2101.6	1832.9	1811.1	1724.1	1637.0
132.5°	2133.7	1887.1	1865.3	1778.3	1691.3
135°	2168.7	1950.1	1930.3	1850.9	1771.6
137.5°	2221.1	2030.6	2010.9	1932.4	1853.9
140°	2253.2	2084.8	2066.7	1994.4	1922.1
142.5°	2280.0	2125.0	2108.2	2041.4	1974.6
145°	2315.0	2186.2	2171.6	2113.4	2055.0
147.5°	2366.3	2263.1	2248.9	2192.2	2135.4
150°	2393.1	2303.4	2290.6	2239.3	2188.0
152.5°	2410.6	2329.6	2319.8	2281.1	2242.2
155°	2449.1	2387.3	2380.1	2351.4	2322.7
157.5°	2487.5	2445.0	2438.0	2410.0	2382.1
160°	2505.1	2471.3	2465.8	2444.1	2422.3
162.5°	2523.7	2499.2	2495.1	2478.8	2462.5
165°	2550.5	2539.5	2535.8	2521.0	2506.2
167.5°	2571.6	2562.2	2560.4	2553.5	2546.5
170°	2589.0	2588.5	2586.7	2579.7	2572.7
172.5°	2590.2	2590.2	2589.8	2588.2	2586.7
175°	2600.7	2606.0	2606.0	2606.0	2606.0
177.5°	2601.8	2606.0	2606.0	2606.0	2606.0
180°	2606.0	2606.0	2606.0	2606.0	2606.0



TEST NUMBER: P935829
 CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-5000K

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	7.91	8.58	9.07	9.72	11.33	10.76	11.43	11.92	12.57	14.18
	3H	8.37	8.97	9.54	10.12	11.74	12.10	12.69	13.26	13.85	15.47
	4H	8.56	9.12	9.73	10.27	11.90	12.54	13.10	13.71	14.26	15.88
	6H	8.66	9.18	9.84	10.34	11.97	12.82	13.34	14.00	14.49	16.13
	8H	8.66	9.15	9.84	10.32	11.95	12.89	13.39	14.07	14.55	16.18
	12H	8.62	9.09	9.81	10.25	11.91	12.93	13.39	14.11	14.56	16.21
4H	2H	8.92	9.49	10.11	10.64	12.27	11.15	11.71	12.33	12.86	14.49
	3H	9.93	10.40	11.12	11.58	13.22	12.64	13.11	13.83	14.29	15.93
	4H	10.20	10.64	11.39	11.80	13.46	13.16	13.60	14.35	14.76	16.42
	6H	10.31	10.69	11.51	11.87	13.52	13.52	13.89	14.71	15.08	16.73
	8H	10.32	10.66	11.50	11.84	13.50	13.63	13.98	14.82	15.15	16.82
	12H	10.27	10.59	11.48	11.78	13.44	13.68	13.99	14.89	15.18	16.85
8H	4H	10.64	10.99	11.83	12.17	13.83	13.27	13.62	14.46	14.80	16.46
	6H	10.90	11.18	12.10	12.40	14.06	13.71	13.99	14.91	15.21	16.87
	8H	10.94	11.18	12.15	12.38	14.06	13.86	14.11	15.07	15.31	16.99
	12H	10.91	11.13	12.13	12.32	14.04	13.95	14.17	15.17	15.37	17.08
12H	4H	10.64	10.95	11.84	12.14	13.81	13.23	13.54	14.43	14.73	16.40
	6H	10.96	11.20	12.17	12.40	14.08	13.70	13.95	14.91	15.15	16.83
	8H	11.01	11.23	12.23	12.43	14.14	13.86	14.08	15.07	15.27	16.98