

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: P936044

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936044
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

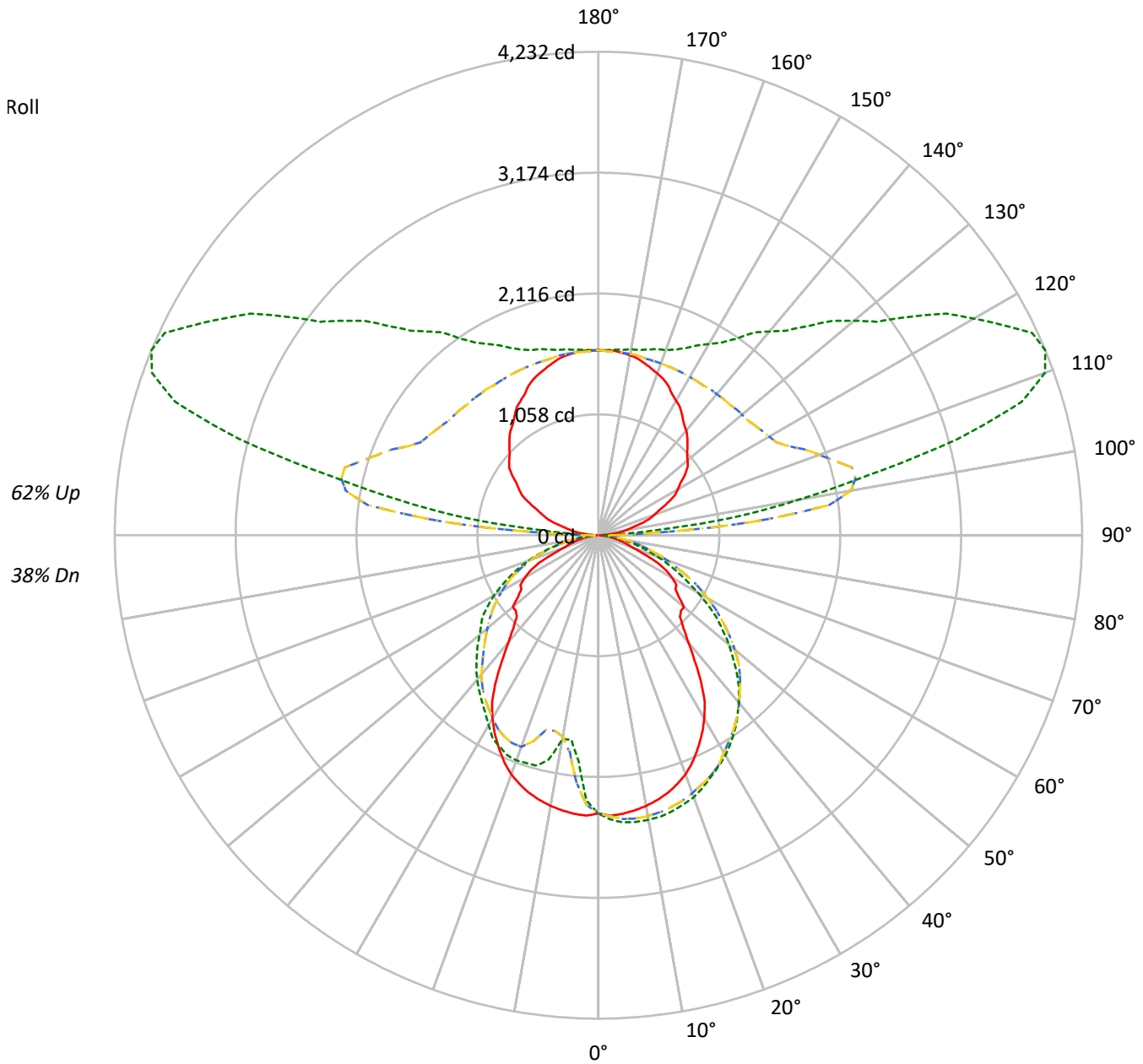
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16828.5 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 144.8
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: P936044
CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

Luminous Intensity Polar Plot



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



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11301	11301	11301	11301
5°	11385	11407	11385	8970
10°	11309	11237	11309	8034
15°	11186	10993	11186	9180
20°	10952	10705	10952	9199
25°	10473	10284	10473	9004
30°	9854	9935	9854	8576
35°	8785	9493	8785	8105
40°	7320	8973	7320	7750
45°	6541	8365	6541	7341
50°	6948	7639	6948	6932
55°	6538	6857	6538	6694
60°	6739	5823	6739	6131
65°	6109	4814	6109	5381
70°	4231	3837	4231	4510
75°	3710	2836	3710	3396
80°	2989	1875	2989	2042
85°	1719	993	1719	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10024 cd/sqm



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.3
10°-20°	624.2	3.7
20°-30°	965.0	5.7
30°-40°	1152.0	6.8
40°-50°	1158.7	6.9
50°-60°	1008.2	6.0
60°-70°	714.9	4.2
70°-80°	378.2	2.2
80°-90°	100.4	0.6
90°-100°	790.1	4.7
100°-110°	2077.1	12.3
110°-120°	2153.8	12.8
120°-130°	1727.6	10.3
130°-140°	1355.5	8.1
140°-150°	1040.4	6.2
150°-160°	749.3	4.5
160°-170°	458.4	2.7
170°-180°	154.9	0.9
0°-30°	1809.1	10.8
0°-40°	2961.1	17.6
0°-60°	5128.0	30.5
0°-90°	6321.4	37.6
90°-120°	5020.9	29.8
90°-150°	9144.4	54.3
90°-180°	10507.0	62.4
0°-180°	16828.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2436	2436	2436	2436	2436	
5°	2447	2523	2447	1984	2447	232
15°	2337	2500	2337	2088	2337	657
25°	2058	2332	2058	2042	2058	945
35°	1565	2081	1565	1777	1565	968
45°	1009	1714	1009	1505	1009	809
55°	823	1265	823	1235	823	756
65°	571	763	571	853	571	546
75°	217	362	217	433	217	228
85°	37	92	37	78	37	50
90°	11	41	11	41	11	11
95°	104	478	104	478	104	116
105°	374	3252	374	3252	374	397
115°	665	4188	665	4188	665	656
125°	925	3335	925	3335	925	821
135°	1102	2588	1102	2588	1102	853
145°	1278	2099	1278	2099	1278	801
155°	1445	1808	1445	1808	1445	664
165°	1559	1684	1559	1684	1559	440
175°	1621	1632	1621	1632	1621	154
180°	1621	1621	1621	1621	1621	



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2456.4	2456.4	2470.2	2474.8	2474.8	2467.9	2461.1	2467.9	2488.7	2495.6	2493.3
5°	2447.2	2465.6	2491.0	2495.6	2500.2	2497.9	2493.3	2497.9	2521.0	2525.6	2527.9
7.5°	2428.8	2463.3	2495.6	2502.5	2509.5	2502.5	2500.2	2504.8	2527.9	2532.5	2532.5
10°	2405.7	2454.1	2491.0	2495.6	2502.5	2495.6	2495.6	2504.8	2527.9	2532.5	2534.7
12.5°	2373.4	2440.3	2474.8	2479.5	2488.7	2486.3	2484.1	2493.3	2516.3	2521.0	2521.0
15°	2336.6	2414.9	2447.2	2451.8	2467.9	2463.3	2463.3	2472.6	2497.9	2504.8	2502.5
17.5°	2285.9	2382.7	2419.5	2426.4	2437.9	2435.7	2437.9	2447.2	2470.2	2474.8	2477.2
20°	2228.3	2338.9	2382.7	2389.5	2401.1	2401.1	2401.1	2412.7	2435.7	2444.9	2444.9
22.5°	2149.9	2292.8	2338.9	2343.5	2357.3	2357.3	2361.9	2378.0	2398.8	2401.1	2401.1
25°	2057.7	2242.1	2281.2	2295.1	2309.0	2315.9	2322.7	2332.0	2338.9	2336.6	2338.9
27.5°	1960.9	2177.6	2228.3	2237.5	2256.0	2262.8	2272.1	2274.4	2276.7	2283.6	2279.0
30°	1852.6	2087.7	2163.8	2173.0	2202.9	2207.6	2198.3	2202.9	2214.4	2219.1	2223.7
32.5°	1730.6	1954.1	2097.0	2117.6	2145.3	2131.5	2129.2	2136.1	2154.5	2154.5	2159.2
35°	1564.6	1850.4	2034.7	2053.1	2073.9	2057.7	2067.0	2069.2	2080.8	2087.7	2085.4
37.5°	1382.6	1760.5	1970.2	1984.1	2000.2	1979.4	1993.2	2000.2	2009.3	2004.8	2004.8
40°	1221.3	1620.0	1894.1	1903.4	1917.2	1901.0	1914.9	1919.5	1924.1	1919.5	1917.2
42.5°	1101.5	1465.5	1813.5	1825.0	1815.8	1827.3	1832.0	1841.1	1834.2	1825.0	1825.0
45°	1009.3	1424.0	1725.9	1739.8	1725.9	1744.4	1751.3	1751.3	1730.6	1725.9	1723.7
47.5°	979.4	1341.1	1638.4	1638.4	1631.5	1654.5	1666.0	1649.9	1629.1	1622.2	1622.2
50°	977.0	1248.9	1518.6	1509.3	1541.6	1569.2	1557.7	1541.6	1525.4	1500.1	1500.1
52.5°	887.2	1136.0	1364.1	1398.7	1449.4	1465.5	1447.1	1431.0	1403.4	1391.9	1382.6
55°	822.7	1018.5	1223.6	1292.7	1345.7	1366.5	1331.9	1315.8	1274.3	1267.4	1262.8
57.5°	808.8	848.0	1094.6	1182.1	1246.7	1244.3	1223.6	1193.6	1159.1	1152.1	1149.9
60°	742.0	613.0	956.3	1060.0	1126.8	1119.9	1101.5	1073.8	1041.6	1036.9	1032.3
62.5°	672.9	444.7	799.6	917.1	1011.6	1009.3	993.2	951.7	928.6	917.1	907.9
65°	571.4	373.3	569.2	762.8	898.7	903.3	868.7	838.8	813.4	799.6	797.3
67.5°	435.5	304.2	384.8	636.0	790.4	785.8	742.0	728.1	695.9	689.0	675.1
70°	322.6	202.7	267.3	516.2	684.4	672.9	638.3	622.2	592.2	576.1	566.8
72.5°	267.3	163.6	195.9	401.0	576.1	562.3	532.3	513.9	488.5	474.6	465.5
75°	216.6	172.8	149.8	297.3	467.8	458.6	430.9	412.5	391.7	373.3	375.6
77.5°	159.0	161.3	119.8	218.9	371.0	357.2	341.1	318.0	308.8	290.4	290.4
80°	119.8	126.7	89.9	149.8	267.3	267.3	253.5	237.4	221.2	212.0	212.0
82.5°	80.7	80.7	66.8	94.4	182.1	175.1	165.9	161.3	152.1	147.5	147.5
85°	36.9	46.0	41.5	57.6	99.1	103.7	103.7	99.1	96.8	92.2	94.4
87.5°	11.5	20.8	25.4	32.3	50.7	53.0	55.3	55.3	55.3	57.6	57.6
90°	10.9	19.6	28.3	30.4	47.9	71.1	82.7	73.5	55.1	41.3	41.3
92.5°	43.5	117.5	191.5	210.0	295.2	408.8	465.6	408.0	293.0	206.7	198.5
95°	104.5	239.8	375.1	409.0	726.2	1149.3	1360.8	1214.3	921.4	701.6	676.7
97.5°	180.6	300.0	419.4	449.3	978.3	1683.7	2036.4	1943.8	1758.6	1619.7	1572.4
100°	239.3	347.6	455.9	483.0	1070.1	1852.7	2244.1	2250.9	2264.4	2274.5	2218.1
102.5°	289.3	390.4	491.4	516.7	1112.1	1905.9	2302.9	2420.9	2656.7	2833.7	2785.4
105°	374.2	459.7	545.4	566.7	1143.2	1911.9	2296.3	2560.8	3089.7	3486.4	3460.4
107.5°	461.2	541.0	620.7	640.7	1149.1	1826.9	2165.8	2534.7	3272.5	3825.8	3832.1
110°	520.0	592.0	664.1	682.0	1140.4	1751.5	2057.0	2469.4	3294.2	3912.8	3939.8



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	577.6	646.3	714.9	732.1	1140.7	1685.6	1958.0	2380.0	3224.2	3857.3	3898.9
115°	664.7	728.0	791.3	807.2	1151.3	1610.0	1839.5	2246.0	3059.2	3669.1	3726.7
117.5°	750.6	808.1	865.7	880.1	1172.6	1562.8	1757.8	2124.8	2858.7	3409.1	3473.0
120°	800.6	854.8	908.9	922.4	1190.1	1546.8	1725.2	2060.5	2731.1	3234.0	3296.1
122.5°	849.5	904.2	958.8	972.5	1215.1	1538.5	1700.2	2002.1	2606.0	3058.8	3120.1
125°	924.6	974.4	1024.2	1036.7	1248.8	1531.6	1673.0	1929.5	2442.4	2827.1	2883.6
127.5°	985.6	1035.8	1086.1	1098.7	1282.5	1527.6	1650.1	1870.3	2310.8	2641.1	2688.7
130°	1018.2	1072.3	1126.5	1140.0	1307.2	1530.0	1641.4	1837.5	2229.6	2523.7	2567.7
132.5°	1051.9	1106.1	1160.2	1173.8	1327.1	1531.6	1633.8	1809.3	2160.3	2423.6	2463.0
135°	1101.9	1151.3	1200.6	1212.9	1348.9	1530.2	1620.8	1767.8	2061.7	2282.2	2316.1
137.5°	1153.1	1201.9	1250.7	1262.9	1381.5	1539.6	1618.7	1742.9	1991.4	2177.7	2205.5
140°	1195.5	1240.5	1285.4	1296.6	1401.4	1541.1	1611.0	1718.3	1933.0	2094.0	2120.0
142.5°	1228.1	1269.7	1311.3	1321.7	1418.1	1546.7	1611.0	1705.3	1893.8	2035.2	2057.6
145°	1278.1	1314.4	1350.7	1359.8	1439.9	1546.7	1600.1	1677.2	1831.4	1947.2	1964.1
147.5°	1328.2	1363.5	1398.8	1407.6	1471.8	1557.4	1600.1	1660.8	1782.1	1873.1	1887.2
150°	1360.8	1392.7	1424.6	1432.6	1488.4	1562.9	1600.1	1651.4	1753.8	1830.7	1842.1
152.5°	1394.6	1418.7	1443.0	1449.0	1499.4	1566.5	1600.1	1643.9	1731.3	1797.0	1805.5
155°	1444.6	1462.5	1480.4	1484.8	1523.3	1574.5	1600.1	1634.9	1704.6	1756.8	1762.5
157.5°	1481.6	1499.0	1516.4	1520.7	1547.2	1582.5	1600.1	1627.2	1681.4	1722.0	1726.0
160°	1506.6	1520.1	1533.6	1537.0	1558.1	1586.1	1600.1	1623.3	1669.8	1704.6	1706.8
162.5°	1531.6	1541.8	1552.0	1554.5	1569.7	1590.0	1600.1	1619.7	1658.9	1688.3	1690.4
165°	1558.8	1567.9	1577.2	1579.4	1586.3	1595.5	1600.1	1614.1	1642.2	1663.2	1665.5
167.5°	1583.8	1588.1	1592.5	1593.6	1599.4	1607.2	1611.0	1620.2	1638.6	1652.3	1653.3
170°	1600.1	1604.5	1608.8	1609.9	1610.3	1610.7	1611.0	1620.2	1638.6	1652.3	1652.3
172.5°	1608.8	1609.8	1610.7	1611.0	1611.0	1611.0	1611.0	1618.2	1632.7	1643.6	1642.7
175°	1620.8	1620.8	1620.8	1620.8	1617.5	1613.2	1611.0	1615.6	1624.8	1631.7	1631.7
177.5°	1620.8	1620.8	1620.8	1620.8	1618.2	1614.8	1613.2	1616.8	1624.1	1629.5	1628.5
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2497.9	2491.0	2497.9	2493.3	2495.6	2488.7	2467.9	2461.1	2467.9	2474.8	2474.8
5°	2527.9	2523.2	2527.9	2527.9	2525.6	2521.0	2497.9	2493.3	2497.9	2500.2	2495.6
7.5°	2537.1	2530.1	2537.1	2532.5	2532.5	2527.9	2504.8	2500.2	2502.5	2509.5	2502.5
10°	2537.1	2530.1	2537.1	2534.7	2532.5	2527.9	2504.8	2495.6	2495.6	2502.5	2495.6
12.5°	2525.6	2521.0	2525.6	2521.0	2521.0	2516.3	2493.3	2484.1	2486.3	2488.7	2479.5
15°	2507.1	2500.2	2507.1	2502.5	2504.8	2497.9	2472.6	2463.3	2463.3	2467.9	2451.8
17.5°	2479.5	2470.2	2479.5	2477.2	2474.8	2470.2	2447.2	2437.9	2435.7	2437.9	2426.4
20°	2447.2	2440.3	2447.2	2444.9	2444.9	2435.7	2412.7	2401.1	2401.1	2401.1	2389.5
22.5°	2396.5	2389.5	2396.5	2401.1	2401.1	2398.8	2378.0	2361.9	2357.3	2357.3	2343.5
25°	2338.9	2332.0	2338.9	2338.9	2336.6	2338.9	2332.0	2322.7	2315.9	2309.0	2295.1
27.5°	2283.6	2279.0	2283.6	2279.0	2283.6	2276.7	2274.4	2272.1	2262.8	2256.0	2237.5
30°	2228.3	2223.7	2228.3	2223.7	2219.1	2214.4	2202.9	2198.3	2207.6	2202.9	2173.0
32.5°	2159.2	2154.5	2159.2	2159.2	2154.5	2154.5	2136.1	2129.2	2131.5	2145.3	2117.6
35°	2087.7	2080.8	2087.7	2085.4	2087.7	2080.8	2069.2	2067.0	2057.7	2073.9	2053.1
37.5°	2004.8	1997.8	2004.8	2004.8	2004.8	2009.3	2000.2	1993.2	1979.4	2000.2	1984.1
40°	1919.5	1910.3	1919.5	1917.2	1919.5	1924.1	1919.5	1914.9	1901.0	1917.2	1903.4
42.5°	1822.7	1820.5	1822.7	1825.0	1825.0	1834.2	1841.1	1832.0	1827.3	1815.8	1825.0
45°	1719.0	1714.4	1719.0	1723.7	1725.9	1730.6	1751.3	1751.3	1744.4	1725.9	1739.8
47.5°	1608.4	1596.9	1608.4	1622.2	1622.2	1629.1	1649.9	1666.0	1654.5	1631.5	1638.4
50°	1490.9	1493.2	1490.9	1500.1	1500.1	1525.4	1541.6	1557.7	1569.2	1541.6	1509.3
52.5°	1375.7	1373.4	1375.7	1382.6	1391.9	1403.4	1431.0	1447.1	1465.5	1449.4	1398.7
55°	1260.4	1265.1	1260.4	1262.8	1267.4	1274.3	1315.8	1331.9	1366.5	1345.7	1292.7
57.5°	1145.2	1138.4	1145.2	1149.9	1152.1	1159.1	1193.6	1223.6	1244.3	1246.7	1182.1
60°	1011.6	1002.4	1011.6	1032.3	1036.9	1041.6	1073.8	1101.5	1119.9	1126.8	1060.0
62.5°	894.1	878.0	894.1	907.9	917.1	928.6	951.7	993.2	1009.3	1011.6	917.1
65°	769.7	762.8	769.7	797.3	799.6	813.4	838.8	868.7	903.3	898.7	762.8
67.5°	656.7	656.7	656.7	675.1	689.0	695.9	728.1	742.0	785.8	790.4	636.0
70°	553.0	550.8	553.0	566.8	576.1	592.2	622.2	638.3	672.9	684.4	516.2
72.5°	454.0	451.6	454.0	465.5	474.6	488.5	513.9	532.3	562.3	576.1	401.0
75°	366.4	361.8	366.4	375.6	373.3	391.7	412.5	430.9	458.6	467.8	297.3
77.5°	281.1	281.1	281.1	290.4	290.4	308.8	318.0	341.1	357.2	371.0	218.9
80°	209.7	207.4	209.7	212.0	212.0	221.2	237.4	253.5	267.3	267.3	149.8
82.5°	147.5	142.8	147.5	147.5	147.5	152.1	161.3	165.9	175.1	182.1	94.4
85°	92.2	92.2	92.2	94.4	92.2	96.8	99.1	103.7	103.7	99.1	57.6
87.5°	59.9	57.6	59.9	57.6	57.6	55.3	55.3	55.3	53.0	50.7	32.3
90°	41.3	41.3	41.3	41.3	41.3	55.1	73.5	82.7	71.1	47.9	30.4
92.5°	165.6	132.7	165.6	198.5	206.7	293.0	408.0	465.6	408.8	295.2	210.0
95°	577.1	477.5	577.1	676.7	701.6	921.4	1214.3	1360.8	1149.3	726.2	409.0
97.5°	1382.8	1193.3	1382.8	1572.4	1619.7	1758.6	1943.8	2036.4	1683.7	978.3	449.3
100°	1992.3	1766.6	1992.3	2218.1	2274.5	2264.4	2250.9	2244.1	1852.7	1070.1	483.0
102.5°	2591.9	2398.6	2591.9	2785.4	2833.7	2656.7	2420.9	2302.9	1905.9	1112.1	516.7
105°	3356.5	3252.5	3356.5	3460.4	3486.4	3089.7	2560.8	2296.3	1911.9	1143.2	566.7
107.5°	3857.2	3882.3	3857.2	3832.1	3825.8	3272.5	2534.7	2165.8	1826.9	1149.1	640.7
110°	4048.2	4156.5	4048.2	3939.8	3912.8	3294.2	2469.4	2057.0	1751.5	1140.4	682.0



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4065.2	4231.5	4065.2	3898.9	3857.3	3224.2	2380.0	1958.0	1685.6	1140.7	732.1
115°	3957.4	4187.9	3957.4	3726.7	3669.1	3059.2	2246.0	1839.5	1610.0	1151.3	807.2
117.5°	3728.8	3984.6	3728.8	3473.0	3409.1	2858.7	2124.8	1757.8	1562.8	1172.6	880.1
120°	3544.6	3793.1	3544.6	3296.1	3234.0	2731.1	2060.5	1725.2	1546.8	1190.1	922.4
122.5°	3365.3	3610.4	3365.3	3120.1	3058.8	2606.0	2002.1	1700.2	1538.5	1215.1	972.5
125°	3109.4	3335.2	3109.4	2883.6	2827.1	2442.4	1929.5	1673.0	1531.6	1248.8	1036.7
127.5°	2879.3	3069.7	2879.3	2688.7	2641.1	2310.8	1870.3	1650.1	1527.6	1282.5	1098.7
130°	2743.7	2919.7	2743.7	2567.7	2523.7	2229.6	1837.5	1641.4	1530.0	1307.2	1140.0
132.5°	2620.5	2778.2	2620.5	2463.0	2423.6	2160.3	1809.3	1633.8	1531.6	1327.1	1173.8
135°	2452.0	2587.8	2452.0	2316.1	2282.2	2061.7	1767.8	1620.8	1530.2	1348.9	1212.9
137.5°	2316.7	2427.9	2316.7	2205.5	2177.7	1991.4	1742.9	1618.7	1539.6	1381.5	1262.9
140°	2223.9	2327.9	2223.9	2120.0	2094.0	1933.0	1718.3	1611.0	1541.1	1401.4	1296.6
142.5°	2147.0	2236.5	2147.0	2057.6	2035.2	1893.8	1705.3	1611.0	1546.7	1418.1	1321.7
145°	2031.8	2099.4	2031.8	1964.1	1947.2	1831.4	1677.2	1600.1	1546.7	1439.9	1359.8
147.5°	1943.2	1999.3	1943.2	1887.2	1873.1	1782.1	1660.8	1600.1	1557.4	1471.8	1407.6
150°	1887.6	1933.0	1887.6	1842.1	1830.7	1753.8	1651.4	1600.1	1562.9	1488.4	1432.6
152.5°	1839.9	1874.3	1839.9	1805.5	1797.0	1731.3	1643.9	1600.1	1566.5	1499.4	1449.0
155°	1785.2	1807.9	1785.2	1762.5	1756.8	1704.6	1634.9	1600.1	1574.5	1523.3	1484.8
157.5°	1741.9	1757.8	1741.9	1726.0	1722.0	1681.4	1627.2	1600.1	1582.5	1547.2	1520.7
160°	1716.1	1725.2	1716.1	1706.8	1704.6	1669.8	1623.3	1600.1	1586.1	1558.1	1537.0
162.5°	1699.1	1707.8	1699.1	1690.4	1688.3	1658.9	1619.7	1600.1	1590.0	1569.7	1554.5
165°	1674.7	1683.9	1674.7	1665.5	1663.2	1642.2	1614.1	1600.1	1595.5	1586.3	1579.4
167.5°	1657.2	1661.1	1657.2	1653.3	1652.3	1638.6	1620.2	1611.0	1607.2	1599.4	1593.6
170°	1652.3	1652.3	1652.3	1652.3	1652.3	1638.6	1620.2	1611.0	1610.7	1610.3	1609.9
172.5°	1639.4	1636.0	1639.4	1642.7	1643.6	1632.7	1618.2	1611.0	1611.0	1611.0	1611.0
175°	1631.7	1631.7	1631.7	1631.7	1631.7	1624.8	1615.6	1611.0	1613.2	1617.5	1620.8
177.5°	1624.6	1620.8	1624.6	1628.5	1629.5	1624.1	1616.8	1613.2	1614.8	1618.2	1620.8
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2470.2	2456.4	2456.4	2433.4	2424.2	2417.3	2405.7	2371.1	2361.9	2352.7	2366.5
5°	2491.0	2465.6	2447.2	2405.7	2371.1	2357.3	2313.5	2230.6	2175.3	2133.8	2110.8
7.5°	2495.6	2463.3	2428.8	2364.3	2281.2	2244.4	2110.8	1958.7	1917.2	1880.4	1857.3
10°	2491.0	2454.1	2405.7	2309.0	2113.0	2048.6	1914.9	1815.8	1790.5	1783.6	1790.5
12.5°	2474.8	2440.3	2373.4	2212.2	1937.9	1894.1	1815.8	1758.2	1753.6	1765.1	1827.3
15°	2447.2	2414.9	2336.6	2083.1	1841.1	1808.9	1753.6	1732.8	1758.2	1838.9	2025.5
17.5°	2419.5	2382.7	2285.9	1956.4	1767.4	1744.4	1705.2	1746.7	1889.5	1997.8	2060.1
20°	2382.7	2338.9	2228.3	1864.2	1714.4	1693.7	1675.3	1861.9	1970.2	2009.3	2044.0
22.5°	2338.9	2292.8	2149.9	1799.7	1659.1	1643.0	1654.5	1926.4	1970.2	1997.8	2027.8
25°	2281.2	2242.1	2057.7	1749.0	1615.4	1596.9	1640.6	1919.5	1944.8	1951.8	2011.7
27.5°	2228.3	2177.6	1960.9	1702.9	1562.3	1555.4	1652.2	1889.5	1908.0	1914.9	1979.4
30°	2163.8	2087.7	1852.6	1654.5	1507.0	1504.7	1654.5	1852.6	1848.1	1866.5	1931.0
32.5°	2097.0	1954.1	1730.6	1594.6	1454.0	1451.8	1638.4	1797.3	1792.7	1818.1	1866.5
35°	2034.7	1850.4	1564.6	1525.4	1387.2	1389.5	1599.2	1732.8	1735.2	1758.2	1788.2
37.5°	1970.2	1760.5	1382.6	1449.4	1322.7	1322.7	1546.2	1672.9	1668.4	1675.3	1716.7
40°	1894.1	1620.0	1221.3	1350.3	1262.8	1255.8	1481.7	1608.4	1592.2	1590.0	1647.6
42.5°	1813.5	1465.5	1101.5	1219.0	1193.6	1184.4	1403.4	1530.1	1500.1	1507.0	1580.7
45°	1725.9	1424.0	1009.3	1030.0	1122.2	1115.3	1318.1	1440.2	1419.5	1437.9	1513.9
47.5°	1638.4	1341.1	979.4	854.9	1046.2	1043.8	1223.6	1352.6	1341.1	1359.6	1440.2
50°	1518.6	1248.9	977.0	732.8	960.9	970.1	1110.7	1267.4	1267.4	1283.5	1368.7
52.5°	1364.1	1136.0	887.2	663.6	861.8	889.5	1011.6	1193.6	1198.3	1214.4	1290.4
55°	1223.6	1018.5	822.7	610.7	744.3	804.2	914.9	1117.6	1126.8	1143.0	1212.0
57.5°	1094.6	848.0	808.8	548.4	636.0	693.6	829.6	1043.8	1048.4	1062.3	1129.1
60°	956.3	613.0	742.0	481.6	541.5	585.3	751.2	956.3	972.4	981.6	1039.3
62.5°	799.6	444.7	672.9	435.5	495.4	504.6	686.7	873.3	894.1	901.0	935.5
65°	569.2	373.3	571.4	396.3	447.0	449.4	617.6	788.1	806.5	818.1	843.3
67.5°	384.8	304.2	435.5	359.5	410.2	412.5	550.8	689.0	714.4	723.5	739.7
70°	267.3	202.7	322.6	320.3	368.7	373.3	479.3	599.1	622.2	629.1	638.3
72.5°	195.9	163.6	267.3	288.0	324.9	329.5	405.6	497.8	520.8	527.7	532.3
75°	149.8	172.8	216.6	251.1	276.5	278.8	331.8	405.6	421.7	426.3	428.6
77.5°	119.8	161.3	159.0	202.7	225.9	221.2	260.4	313.4	327.2	327.2	327.2
80°	89.9	126.7	119.8	145.2	165.9	161.3	186.6	223.5	228.1	232.7	230.4
82.5°	66.8	80.7	80.7	92.2	110.6	106.0	124.4	145.2	145.2	145.2	149.8
85°	41.5	46.0	36.9	48.4	62.2	59.9	69.2	78.3	80.7	80.7	76.0
87.5°	25.4	20.8	11.5	18.4	27.6	27.6	32.3	34.5	32.3	32.3	32.3
90°	28.3	19.6	10.9	19.6	28.3	30.4	47.9	71.1	82.7	73.5	55.1
92.5°	191.5	117.5	43.5	117.5	191.5	210.0	295.2	408.8	465.6	408.0	293.0
95°	375.1	239.8	104.5	239.8	375.1	409.0	726.2	1149.3	1360.8	1214.3	921.4
97.5°	419.4	300.0	180.6	300.0	419.4	449.3	978.3	1683.7	2036.4	1943.8	1758.6
100°	455.9	347.6	239.3	347.6	455.9	483.0	1070.1	1852.7	2244.1	2250.9	2264.4
102.5°	491.4	390.4	289.3	390.4	491.4	516.7	1112.1	1905.9	2302.9	2420.9	2656.7
105°	545.4	459.7	374.2	459.7	545.4	566.7	1143.2	1911.9	2296.3	2560.8	3089.7
107.5°	620.7	541.0	461.2	541.0	620.7	640.7	1149.1	1826.9	2165.8	2534.7	3272.5
110°	664.1	592.0	520.0	592.0	664.1	682.0	1140.4	1751.5	2057.0	2469.4	3294.2



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	714.9	646.3	577.6	646.3	714.9	732.1	1140.7	1685.6	1958.0	2380.0	3224.2
115°	791.3	728.0	664.7	728.0	791.3	807.2	1151.3	1610.0	1839.5	2246.0	3059.2
117.5°	865.7	808.1	750.6	808.1	865.7	880.1	1172.6	1562.8	1757.8	2124.8	2858.7
120°	908.9	854.8	800.6	854.8	908.9	922.4	1190.1	1546.8	1725.2	2060.5	2731.1
122.5°	958.8	904.2	849.5	904.2	958.8	972.5	1215.1	1538.5	1700.2	2002.1	2606.0
125°	1024.2	974.4	924.6	974.4	1024.2	1036.7	1248.8	1531.6	1673.0	1929.5	2442.4
127.5°	1086.1	1035.8	985.6	1035.8	1086.1	1098.7	1282.5	1527.6	1650.1	1870.3	2310.8
130°	1126.5	1072.3	1018.2	1072.3	1126.5	1140.0	1307.2	1530.0	1641.4	1837.5	2229.6
132.5°	1160.2	1106.1	1051.9	1106.1	1160.2	1173.8	1327.1	1531.6	1633.8	1809.3	2160.3
135°	1200.6	1151.3	1101.9	1151.3	1200.6	1212.9	1348.9	1530.2	1620.8	1767.8	2061.7
137.5°	1250.7	1201.9	1153.1	1201.9	1250.7	1262.9	1381.5	1539.6	1618.7	1742.9	1991.4
140°	1285.4	1240.5	1195.5	1240.5	1285.4	1296.6	1401.4	1541.1	1611.0	1718.3	1933.0
142.5°	1311.3	1269.7	1228.1	1269.7	1311.3	1321.7	1418.1	1546.7	1611.0	1705.3	1893.8
145°	1350.7	1314.4	1278.1	1314.4	1350.7	1359.8	1439.9	1546.7	1600.1	1677.2	1831.4
147.5°	1398.8	1363.5	1328.2	1363.5	1398.8	1407.6	1471.8	1557.4	1600.1	1660.8	1782.1
150°	1424.6	1392.7	1360.8	1392.7	1424.6	1432.6	1488.4	1562.9	1600.1	1651.4	1753.8
152.5°	1443.0	1418.7	1394.6	1418.7	1443.0	1449.0	1499.4	1566.5	1600.1	1643.9	1731.3
155°	1480.4	1462.5	1444.6	1462.5	1480.4	1484.8	1523.3	1574.5	1600.1	1634.9	1704.6
157.5°	1516.4	1499.0	1481.6	1499.0	1516.4	1520.7	1547.2	1582.5	1600.1	1627.2	1681.4
160°	1533.6	1520.1	1506.6	1520.1	1533.6	1537.0	1558.1	1586.1	1600.1	1623.3	1669.8
162.5°	1552.0	1541.8	1531.6	1541.8	1552.0	1554.5	1569.7	1590.0	1600.1	1619.7	1658.9
165°	1577.2	1567.9	1558.8	1567.9	1577.2	1579.4	1586.3	1595.5	1600.1	1614.1	1642.2
167.5°	1592.5	1588.1	1583.8	1588.1	1592.5	1593.6	1599.4	1607.2	1611.0	1620.2	1638.6
170°	1608.8	1604.5	1600.1	1604.5	1608.8	1609.9	1610.3	1610.7	1611.0	1620.2	1638.6
172.5°	1610.7	1609.8	1608.8	1609.8	1610.7	1611.0	1611.0	1611.0	1611.0	1618.2	1632.7
175°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1617.5	1613.2	1611.0	1615.6	1624.8
177.5°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1618.2	1614.8	1613.2	1616.8	1624.1
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2350.4	2343.5	2352.7	2327.4	2352.7	2343.5	2350.4	2366.5	2352.7	2361.9	2371.1
5°	2062.4	2050.8	2014.0	1984.1	2014.0	2050.8	2062.4	2110.8	2133.8	2175.3	2230.6
7.5°	1843.5	1834.2	1825.0	1806.6	1825.0	1834.2	1843.5	1857.3	1880.4	1917.2	1958.7
10°	1795.1	1797.3	1811.2	1808.9	1811.2	1797.3	1795.1	1790.5	1783.6	1790.5	1815.8
12.5°	1919.5	1940.3	2016.3	2011.7	2016.3	1940.3	1919.5	1827.3	1765.1	1753.6	1758.2
15°	2062.4	2069.2	2085.4	2087.7	2085.4	2069.2	2062.4	2025.5	1838.9	1758.2	1732.8
17.5°	2076.2	2078.5	2090.0	2090.0	2090.0	2078.5	2076.2	2060.1	1997.8	1889.5	1746.7
20°	2064.7	2069.2	2092.4	2097.0	2092.4	2069.2	2064.7	2044.0	2009.3	1970.2	1861.9
22.5°	2060.1	2069.2	2087.7	2085.4	2087.7	2069.2	2060.1	2027.8	1997.8	1970.2	1926.4
25°	2037.0	2037.0	2039.3	2041.6	2039.3	2037.0	2037.0	2011.7	1951.8	1944.8	1919.5
27.5°	1988.7	1993.2	2007.1	2004.8	2007.1	1993.2	1988.7	1979.4	1914.9	1908.0	1889.5
30°	1944.8	1940.3	1928.7	1919.5	1928.7	1940.3	1944.8	1931.0	1866.5	1848.1	1852.6
32.5°	1871.1	1859.6	1848.1	1841.1	1848.1	1859.6	1871.1	1866.5	1818.1	1792.7	1797.3
35°	1783.6	1785.8	1783.6	1776.6	1783.6	1785.8	1783.6	1788.2	1758.2	1735.2	1732.8
37.5°	1721.3	1725.9	1723.7	1714.4	1723.7	1725.9	1721.3	1716.7	1675.3	1668.4	1672.9
40°	1656.8	1659.1	1656.8	1649.9	1656.8	1659.1	1656.8	1647.6	1590.0	1592.2	1608.4
42.5°	1594.6	1592.2	1585.4	1580.7	1585.4	1592.2	1594.6	1580.7	1507.0	1500.1	1530.1
45°	1523.2	1525.4	1511.7	1504.7	1511.7	1525.4	1523.2	1513.9	1437.9	1419.5	1440.2
47.5°	1451.8	1451.8	1440.2	1433.3	1440.2	1451.8	1451.8	1440.2	1359.6	1341.1	1352.6
50°	1375.7	1373.4	1357.2	1355.0	1357.2	1373.4	1375.7	1368.7	1283.5	1267.4	1267.4
52.5°	1288.1	1288.1	1290.4	1295.1	1290.4	1288.1	1288.1	1290.4	1214.4	1198.3	1193.6
55°	1212.0	1214.4	1230.5	1235.1	1230.5	1214.4	1212.0	1212.0	1143.0	1126.8	1117.6
57.5°	1133.7	1133.7	1145.2	1145.2	1145.2	1133.7	1133.7	1129.1	1062.3	1048.4	1043.8
60°	1043.8	1048.4	1057.7	1055.4	1057.7	1048.4	1043.8	1039.3	981.6	972.4	956.3
62.5°	949.4	954.0	956.3	951.7	956.3	954.0	949.4	935.5	901.0	894.1	873.3
65°	850.3	854.9	857.2	852.6	857.2	854.9	850.3	843.3	818.1	806.5	788.1
67.5°	748.9	746.6	744.3	753.5	744.3	746.6	748.9	739.7	723.5	714.4	689.0
70°	645.2	645.2	642.9	647.5	642.9	645.2	645.2	638.3	629.1	622.2	599.1
72.5°	534.6	532.3	541.5	534.6	541.5	532.3	534.6	532.3	527.7	520.8	497.8
75°	426.3	430.9	426.3	433.2	426.3	430.9	426.3	428.6	426.3	421.7	405.6
77.5°	324.9	329.5	324.9	324.9	324.9	329.5	324.9	327.2	327.2	327.2	313.4
80°	230.4	228.1	228.1	225.9	228.1	228.1	230.4	230.4	232.7	228.1	223.5
82.5°	147.5	145.2	145.2	149.8	145.2	145.2	147.5	149.8	145.2	145.2	145.2
85°	80.7	82.9	78.3	78.3	78.3	82.9	80.7	76.0	80.7	80.7	78.3
87.5°	30.0	27.6	27.6	27.6	27.6	27.6	30.0	32.3	32.3	32.3	34.5
90°	41.3	41.3	41.3	41.3	41.3	41.3	41.3	55.1	73.5	82.7	71.1
92.5°	206.7	198.5	165.6	132.7	165.6	198.5	206.7	293.0	408.0	465.6	408.8
95°	701.6	676.7	577.1	477.5	577.1	676.7	701.6	921.4	1214.3	1360.8	1149.3
97.5°	1619.7	1572.4	1382.8	1193.3	1382.8	1572.4	1619.7	1758.6	1943.8	2036.4	1683.7
100°	2274.5	2218.1	1992.3	1766.6	1992.3	2218.1	2274.5	2264.4	2250.9	2244.1	1852.7
102.5°	2833.7	2785.4	2591.9	2398.6	2591.9	2785.4	2833.7	2656.7	2420.9	2302.9	1905.9
105°	3486.4	3460.4	3356.5	3252.5	3356.5	3460.4	3486.4	3089.7	2560.8	2296.3	1911.9
107.5°	3825.8	3832.1	3857.2	3882.3	3857.2	3832.1	3825.8	3272.5	2534.7	2165.8	1826.9
110°	3912.8	3939.8	4048.2	4156.5	4048.2	3939.8	3912.8	3294.2	2469.4	2057.0	1751.5



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3857.3	3898.9	4065.2	4231.5	4065.2	3898.9	3857.3	3224.2	2380.0	1958.0	1685.6
115°	3669.1	3726.7	3957.4	4187.9	3957.4	3726.7	3669.1	3059.2	2246.0	1839.5	1610.0
117.5°	3409.1	3473.0	3728.8	3984.6	3728.8	3473.0	3409.1	2858.7	2124.8	1757.8	1562.8
120°	3234.0	3296.1	3544.6	3793.1	3544.6	3296.1	3234.0	2731.1	2060.5	1725.2	1546.8
122.5°	3058.8	3120.1	3365.3	3610.4	3365.3	3120.1	3058.8	2606.0	2002.1	1700.2	1538.5
125°	2827.1	2883.6	3109.4	3335.2	3109.4	2883.6	2827.1	2442.4	1929.5	1673.0	1531.6
127.5°	2641.1	2688.7	2879.3	3069.7	2879.3	2688.7	2641.1	2310.8	1870.3	1650.1	1527.6
130°	2523.7	2567.7	2743.7	2919.7	2743.7	2567.7	2523.7	2229.6	1837.5	1641.4	1530.0
132.5°	2423.6	2463.0	2620.5	2778.2	2620.5	2463.0	2423.6	2160.3	1809.3	1633.8	1531.6
135°	2282.2	2316.1	2452.0	2587.8	2452.0	2316.1	2282.2	2061.7	1767.8	1620.8	1530.2
137.5°	2177.7	2205.5	2316.7	2427.9	2316.7	2205.5	2177.7	1991.4	1742.9	1618.7	1539.6
140°	2094.0	2120.0	2223.9	2327.9	2223.9	2120.0	2094.0	1933.0	1718.3	1611.0	1541.1
142.5°	2035.2	2057.6	2147.0	2236.5	2147.0	2057.6	2035.2	1893.8	1705.3	1611.0	1546.7
145°	1947.2	1964.1	2031.8	2099.4	2031.8	1964.1	1947.2	1831.4	1677.2	1600.1	1546.7
147.5°	1873.1	1887.2	1943.2	1999.3	1943.2	1887.2	1873.1	1782.1	1660.8	1600.1	1557.4
150°	1830.7	1842.1	1887.6	1933.0	1887.6	1842.1	1830.7	1753.8	1651.4	1600.1	1562.9
152.5°	1797.0	1805.5	1839.9	1874.3	1839.9	1805.5	1797.0	1731.3	1643.9	1600.1	1566.5
155°	1756.8	1762.5	1785.2	1807.9	1785.2	1762.5	1756.8	1704.6	1634.9	1600.1	1574.5
157.5°	1722.0	1726.0	1741.9	1757.8	1741.9	1726.0	1722.0	1681.4	1627.2	1600.1	1582.5
160°	1704.6	1706.8	1716.1	1725.2	1716.1	1706.8	1704.6	1669.8	1623.3	1600.1	1586.1
162.5°	1688.3	1690.4	1699.1	1707.8	1699.1	1690.4	1688.3	1658.9	1619.7	1600.1	1590.0
165°	1663.2	1665.5	1674.7	1683.9	1674.7	1665.5	1663.2	1642.2	1614.1	1600.1	1595.5
167.5°	1652.3	1653.3	1657.2	1661.1	1657.2	1653.3	1652.3	1638.6	1620.2	1611.0	1607.2
170°	1652.3	1652.3	1652.3	1652.3	1652.3	1652.3	1652.3	1638.6	1620.2	1611.0	1610.7
172.5°	1643.6	1642.7	1639.4	1636.0	1639.4	1642.7	1643.6	1632.7	1618.2	1611.0	1611.0
175°	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1631.7	1624.8	1615.6	1611.0	1613.2
177.5°	1629.5	1628.5	1624.6	1620.8	1624.6	1628.5	1629.5	1624.1	1616.8	1613.2	1614.8
180°	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8	1620.8



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2435.7	2435.7	2435.7	2435.7	2435.7
2.5°	2405.7	2417.3	2424.2	2433.4	2456.4
5°	2313.5	2357.3	2371.1	2405.7	2447.2
7.5°	2110.8	2244.4	2281.2	2364.3	2428.8
10°	1914.9	2048.6	2113.0	2309.0	2405.7
12.5°	1815.8	1894.1	1937.9	2212.2	2373.4
15°	1753.6	1808.9	1841.1	2083.1	2336.6
17.5°	1705.2	1744.4	1767.4	1956.4	2285.9
20°	1675.3	1693.7	1714.4	1864.2	2228.3
22.5°	1654.5	1643.0	1659.1	1799.7	2149.9
25°	1640.6	1596.9	1615.4	1749.0	2057.7
27.5°	1652.2	1555.4	1562.3	1702.9	1960.9
30°	1654.5	1504.7	1507.0	1654.5	1852.6
32.5°	1638.4	1451.8	1454.0	1594.6	1730.6
35°	1599.2	1389.5	1387.2	1525.4	1564.6
37.5°	1546.2	1322.7	1322.7	1449.4	1382.6
40°	1481.7	1255.8	1262.8	1350.3	1221.3
42.5°	1403.4	1184.4	1193.6	1219.0	1101.5
45°	1318.1	1115.3	1122.2	1030.0	1009.3
47.5°	1223.6	1043.8	1046.2	854.9	979.4
50°	1110.7	970.1	960.9	732.8	977.0
52.5°	1011.6	889.5	861.8	663.6	887.2
55°	914.9	804.2	744.3	610.7	822.7
57.5°	829.6	693.6	636.0	548.4	808.8
60°	751.2	585.3	541.5	481.6	742.0
62.5°	686.7	504.6	495.4	435.5	672.9
65°	617.6	449.4	447.0	396.3	571.4
67.5°	550.8	412.5	410.2	359.5	435.5
70°	479.3	373.3	368.7	320.3	322.6
72.5°	405.6	329.5	324.9	288.0	267.3
75°	331.8	278.8	276.5	251.1	216.6
77.5°	260.4	221.2	225.9	202.7	159.0
80°	186.6	161.3	165.9	145.2	119.8
82.5°	124.4	106.0	110.6	92.2	80.7
85°	69.2	59.9	62.2	48.4	36.9
87.5°	32.3	27.6	27.6	18.4	11.5
90°	47.9	30.4	28.3	19.6	10.9
92.5°	295.2	210.0	191.5	117.5	43.5
95°	726.2	409.0	375.1	239.8	104.5
97.5°	978.3	449.3	419.4	300.0	180.6
100°	1070.1	483.0	455.9	347.6	239.3
102.5°	1112.1	516.7	491.4	390.4	289.3
105°	1143.2	566.7	545.4	459.7	374.2
107.5°	1149.1	640.7	620.7	541.0	461.2
110°	1140.4	682.0	664.1	592.0	520.0



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1140.7	732.1	714.9	646.3	577.6
115°	1151.3	807.2	791.3	728.0	664.7
117.5°	1172.6	880.1	865.7	808.1	750.6
120°	1190.1	922.4	908.9	854.8	800.6
122.5°	1215.1	972.5	958.8	904.2	849.5
125°	1248.8	1036.7	1024.2	974.4	924.6
127.5°	1282.5	1098.7	1086.1	1035.8	985.6
130°	1307.2	1140.0	1126.5	1072.3	1018.2
132.5°	1327.1	1173.8	1160.2	1106.1	1051.9
135°	1348.9	1212.9	1200.6	1151.3	1101.9
137.5°	1381.5	1262.9	1250.7	1201.9	1153.1
140°	1401.4	1296.6	1285.4	1240.5	1195.5
142.5°	1418.1	1321.7	1311.3	1269.7	1228.1
145°	1439.9	1359.8	1350.7	1314.4	1278.1
147.5°	1471.8	1407.6	1398.8	1363.5	1328.2
150°	1488.4	1432.6	1424.6	1392.7	1360.8
152.5°	1499.4	1449.0	1443.0	1418.7	1394.6
155°	1523.3	1484.8	1480.4	1462.5	1444.6
157.5°	1547.2	1520.7	1516.4	1499.0	1481.6
160°	1558.1	1537.0	1533.6	1520.1	1506.6
162.5°	1569.7	1554.5	1552.0	1541.8	1531.6
165°	1586.3	1579.4	1577.2	1567.9	1558.8
167.5°	1599.4	1593.6	1592.5	1588.1	1583.8
170°	1610.3	1609.9	1608.8	1604.5	1600.1
172.5°	1611.0	1611.0	1610.7	1609.8	1608.8
175°	1617.5	1620.8	1620.8	1620.8	1620.8
177.5°	1618.2	1620.8	1620.8	1620.8	1620.8
180°	1620.8	1620.8	1620.8	1620.8	1620.8



TEST NUMBER: P936044

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-3000K

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	11.96	12.72	13.02	13.78	15.22	14.80	15.56	15.85	16.62	18.06
	3H	12.43	13.11	13.50	14.18	15.64	16.14	16.82	17.20	17.89	19.34
	4H	12.62	13.26	13.69	14.33	15.79	16.58	17.22	17.66	18.29	19.76
	6H	12.73	13.32	13.82	14.40	15.87	16.86	17.45	17.95	18.53	20.00
	8H	12.73	13.29	13.82	14.38	15.85	16.93	17.50	18.02	18.59	20.06
	12H	12.69	13.23	13.79	14.32	15.81	16.97	17.51	18.06	18.59	20.08
4H	2H	12.98	13.63	14.07	14.70	16.16	15.19	15.84	16.28	16.91	18.37
	3H	14.00	14.54	15.09	15.63	17.11	16.69	17.23	17.78	18.33	19.80
	4H	14.27	14.76	15.37	15.85	17.35	17.22	17.71	18.31	18.80	20.30
	6H	14.39	14.81	15.50	15.92	17.42	17.58	18.00	18.68	19.11	20.60
	8H	14.39	14.79	15.50	15.89	17.40	17.68	18.08	18.79	19.18	20.69
	12H	14.36	14.71	15.48	15.83	17.34	17.74	18.09	18.86	19.21	20.72
8H	4H	14.72	15.11	15.82	16.22	17.72	17.33	17.73	18.44	18.83	20.34
	6H	14.97	15.30	16.10	16.45	17.95	17.77	18.09	18.89	19.24	20.74
	8H	15.02	15.30	16.15	16.43	17.95	17.92	18.21	19.05	19.33	20.86
	12H	15.00	15.25	16.13	16.37	17.93	18.02	18.27	19.15	19.39	20.95
12H	4H	14.72	15.08	15.84	16.19	17.70	17.29	17.65	18.42	18.77	20.28
	6H	15.03	15.32	16.17	16.45	17.97	17.76	18.05	18.90	19.18	20.70
	8H	15.10	15.35	16.23	16.47	18.03	17.92	18.17	19.06	19.30	20.86