

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: P936048

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

**Test Information**

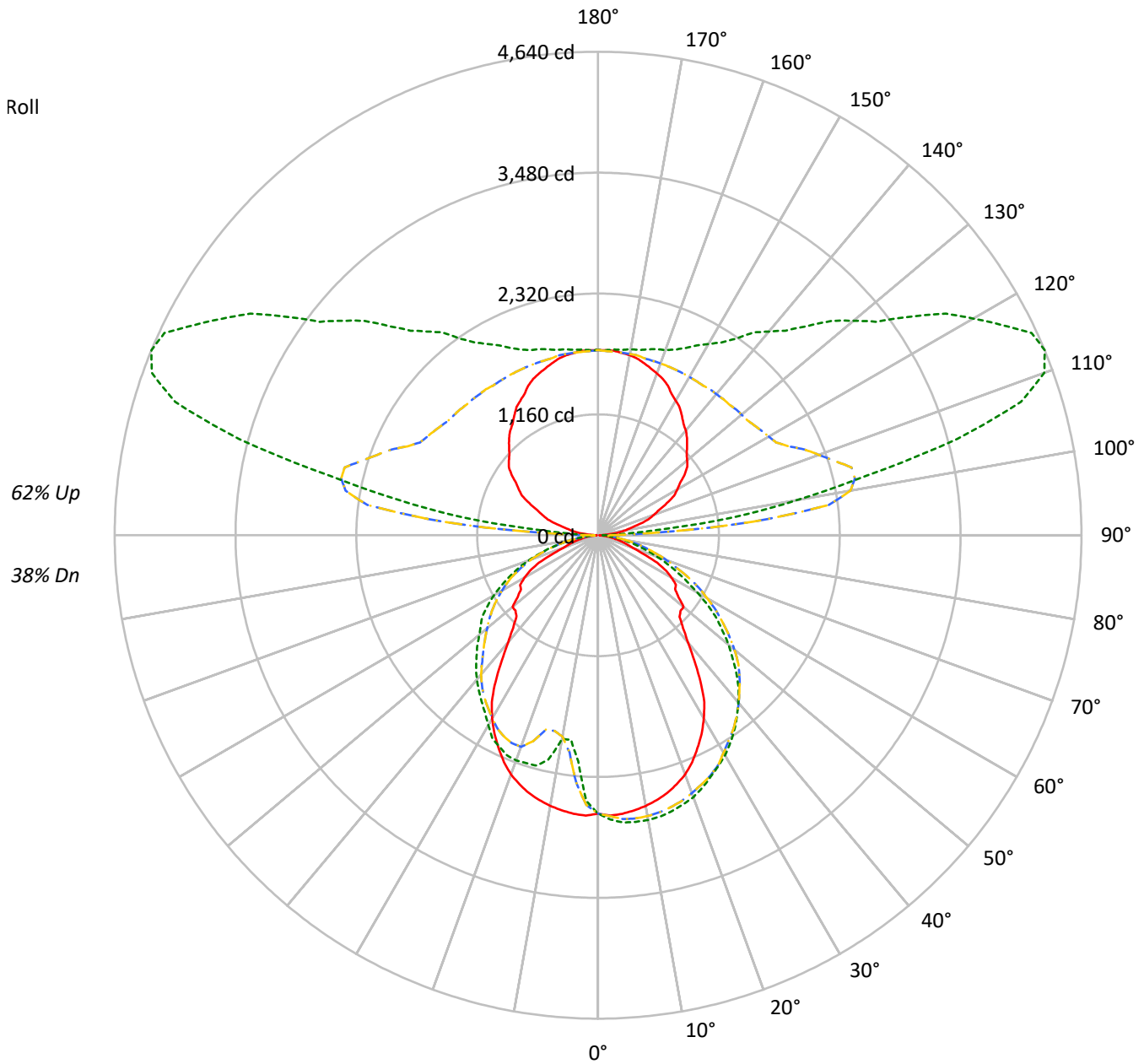
Test Method: LM-79-2019  
Report Number: P936048  
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18452.6 lumens  
Efficiency: N/A  
Efficacy: 127.4 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 (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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



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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	12391	12391	12391	12391
5°	12484	12508	12484	9835
10°	12400	12321	12400	8809
15°	12265	12054	12265	10066
20°	12009	11738	12009	10087
25°	11484	11277	11484	9873
30°	10805	10894	10805	9404
35°	9633	10410	9633	8888
40°	8026	9839	8026	8498
45°	7172	9172	7172	8050
50°	7619	8376	7619	7600
55°	7169	7518	7169	7341
60°	7390	6385	7390	6723
65°	6699	5279	6699	5900
70°	4639	4207	4639	4946
75°	4068	3110	4068	3723
80°	3278	2056	3278	2239
85°	1882	1089	1882	925

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10992 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.1	1.3
10°-20°	684.5	3.7
20°-30°	1058.1	5.7
30°-40°	1263.2	6.8
40°-50°	1270.6	6.9
50°-60°	1105.5	6.0
60°-70°	783.8	4.2
70°-80°	414.7	2.2
80°-90°	110.1	0.6
90°-100°	866.3	4.7
100°-110°	2277.6	12.3
110°-120°	2361.6	12.8
120°-130°	1894.3	10.3
130°-140°	1486.3	8.1
140°-150°	1140.8	6.2
150°-160°	821.6	4.5
160°-170°	502.7	2.7
170°-180°	169.8	0.9
0°-30°	1983.7	10.8
0°-40°	3246.8	17.6
0°-60°	5622.9	30.5
0°-90°	6931.5	37.6
90°-120°	5505.5	29.8
90°-150°	10027.0	54.3
90°-180°	11521.0	62.4
0°-180°	18452.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2671	2671	2671	2671	2671	
5°	2683	2767	2683	2176	2683	255
15°	2562	2742	2562	2289	2562	721
25°	2256	2557	2256	2239	2256	1036
35°	1716	2282	1716	1948	1716	1061
45°	1107	1880	1107	1650	1107	887
55°	902	1387	902	1354	902	829
65°	627	836	627	935	627	599
75°	238	397	238	475	238	250
85°	40	101	40	86	40	55
90°	12	45	12	45	12	12
95°	115	524	115	524	115	127
105°	410	3566	410	3566	410	435
115°	729	4592	729	4592	729	720
125°	1014	3657	1014	3657	1014	900
135°	1208	2838	1208	2838	1208	935
145°	1402	2302	1402	2302	1402	878
155°	1584	1982	1584	1982	1584	728
165°	1709	1846	1709	1846	1709	482
175°	1777	1789	1777	1789	1777	169
180°	1777	1777	1777	1777	1777	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2693.5	2693.5	2708.6	2713.7	2713.7	2706.1	2698.6	2706.1	2728.9	2736.4	2733.9
5°	2683.4	2703.5	2731.4	2736.4	2741.5	2738.9	2733.9	2738.9	2764.3	2769.3	2771.8
7.5°	2663.2	2701.1	2736.4	2744.0	2751.6	2744.0	2741.5	2746.6	2771.8	2776.9	2776.9
10°	2637.8	2690.9	2731.4	2736.4	2744.0	2736.4	2736.4	2746.6	2771.8	2776.9	2779.4
12.5°	2602.5	2675.8	2713.7	2718.7	2728.9	2726.3	2723.8	2733.9	2759.2	2764.3	2764.3
15°	2562.1	2648.0	2683.4	2688.4	2706.1	2701.1	2701.1	2711.2	2738.9	2746.6	2744.0
17.5°	2506.5	2612.6	2653.1	2660.6	2673.2	2670.7	2673.2	2683.4	2708.6	2713.7	2716.3
20°	2443.4	2564.6	2612.6	2620.2	2632.9	2632.9	2632.9	2645.5	2670.7	2680.9	2680.9
22.5°	2357.4	2514.1	2564.6	2569.7	2584.8	2584.8	2589.8	2607.5	2630.3	2632.9	2632.9
25°	2256.3	2458.5	2501.4	2516.6	2531.8	2539.4	2546.9	2557.1	2564.6	2562.1	2564.6
27.5°	2150.2	2387.7	2443.4	2453.4	2473.7	2481.2	2491.4	2493.8	2496.4	2504.0	2498.9
30°	2031.4	2289.2	2372.6	2382.7	2415.5	2420.6	2410.5	2415.5	2428.2	2433.2	2438.3
32.5°	1897.6	2142.6	2299.4	2322.0	2352.3	2337.2	2334.6	2342.3	2362.5	2362.5	2367.5
35°	1715.6	2028.9	2231.1	2251.3	2274.0	2256.3	2266.5	2269.0	2281.7	2289.2	2286.6
37.5°	1516.0	1930.4	2160.3	2175.5	2193.2	2170.5	2185.6	2193.2	2203.3	2198.3	2198.3
40°	1339.1	1776.3	2076.9	2087.1	2102.2	2084.5	2099.7	2104.8	2109.8	2104.8	2102.2
42.5°	1207.8	1607.0	1988.5	2001.1	1991.1	2003.7	2008.8	2018.8	2011.3	2001.1	2001.1
45°	1106.7	1561.5	1892.5	1907.7	1892.5	1912.8	1920.3	1920.3	1897.6	1892.5	1890.0
47.5°	1073.9	1470.5	1796.5	1796.5	1788.9	1814.2	1826.8	1809.1	1786.4	1778.8	1778.8
50°	1071.3	1369.5	1665.1	1655.0	1690.4	1720.7	1708.0	1690.4	1672.7	1644.8	1644.8
52.5°	972.8	1245.6	1495.8	1533.7	1589.3	1607.0	1586.8	1569.1	1538.8	1526.2	1516.0
55°	902.1	1116.8	1341.7	1417.5	1475.6	1498.4	1460.4	1442.8	1397.3	1389.7	1384.7
57.5°	886.9	929.8	1200.2	1296.2	1367.0	1364.4	1341.7	1308.8	1271.0	1263.3	1260.8
60°	813.6	672.1	1048.6	1162.3	1235.6	1227.9	1207.8	1177.5	1142.1	1137.0	1131.9
62.5°	737.8	487.7	876.7	1005.6	1109.2	1106.7	1089.0	1043.5	1018.2	1005.6	995.5
65°	626.6	409.3	624.1	836.4	985.5	990.4	952.6	919.8	891.9	876.7	874.2
67.5°	477.5	333.5	422.0	697.4	866.7	861.6	813.6	798.4	763.0	755.5	740.3
70°	353.7	222.3	293.1	566.0	750.4	737.8	699.9	682.2	649.4	631.7	621.5
72.5°	293.1	179.4	214.8	439.7	631.7	616.6	583.7	563.5	535.7	520.5	510.4
75°	237.5	189.5	164.3	326.0	512.9	502.9	472.5	452.3	429.5	409.3	411.8
77.5°	174.3	176.9	131.4	240.0	406.8	391.7	374.0	348.7	338.6	318.4	318.4
80°	131.4	138.9	98.6	164.3	293.1	293.1	278.0	260.3	242.6	232.5	232.5
82.5°	88.4	88.4	73.2	103.6	199.7	192.0	182.0	176.9	166.8	161.7	161.7
85°	40.4	50.5	45.5	63.2	108.6	113.7	113.7	108.6	106.1	101.1	103.6
87.5°	12.6	22.8	27.8	35.4	55.6	58.1	60.6	60.6	60.6	63.2	63.2
90°	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4	45.3	45.3
92.5°	47.7	128.8	210.0	230.3	323.7	448.3	510.5	447.4	321.3	226.6	217.6
95°	114.6	263.0	411.4	448.5	796.3	1260.2	1492.1	1331.5	1010.3	769.4	742.0
97.5°	198.0	328.9	459.9	492.6	1072.8	1846.2	2232.9	2131.4	1928.4	1776.0	1724.1
100°	262.4	381.1	499.9	529.6	1173.3	2031.5	2460.7	2468.1	2482.9	2494.0	2432.2
102.5°	317.3	428.1	538.8	566.5	1219.4	2089.9	2525.1	2654.5	2913.1	3107.1	3054.2
105°	410.3	504.1	598.0	621.4	1253.6	2096.5	2517.9	2808.0	3387.9	3822.9	3794.4
107.5°	505.7	593.2	680.6	702.5	1260.0	2003.2	2374.8	2779.3	3588.3	4195.0	4201.9
110°	570.2	649.2	728.1	747.8	1250.4	1920.5	2255.6	2707.7	3612.1	4290.4	4320.1



TEST NUMBER: P936048

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	633.4	708.6	783.9	802.7	1250.8	1848.2	2146.9	2609.7	3535.3	4229.5	4275.1
115°	728.8	798.2	867.6	885.1	1262.4	1765.4	2017.0	2462.8	3354.4	4023.2	4086.4
117.5°	823.0	886.1	949.2	965.0	1285.8	1713.6	1927.5	2329.9	3134.6	3738.1	3808.2
120°	877.9	937.3	996.6	1011.5	1304.9	1696.1	1891.7	2259.4	2994.7	3546.1	3614.2
122.5°	931.5	991.5	1051.3	1066.3	1332.4	1687.0	1864.3	2195.3	2857.5	3354.0	3421.3
125°	1013.9	1068.5	1123.0	1136.7	1369.3	1679.4	1834.5	2115.7	2678.1	3100.0	3161.8
127.5°	1080.7	1135.8	1190.9	1204.7	1406.3	1675.1	1809.4	2050.8	2533.8	2896.0	2948.2
130°	1116.5	1175.8	1235.2	1250.0	1433.3	1677.6	1799.8	2014.8	2444.8	2767.2	2815.5
132.5°	1153.5	1212.8	1272.2	1287.0	1455.2	1679.5	1791.5	1983.9	2368.8	2657.5	2700.7
135°	1208.2	1262.4	1316.5	1330.0	1479.0	1677.8	1777.2	1938.4	2260.7	2502.5	2539.6
137.5°	1264.4	1317.9	1371.4	1384.8	1514.8	1688.2	1774.9	1911.1	2183.6	2387.9	2418.4
140°	1310.8	1360.2	1409.4	1421.8	1536.7	1689.9	1766.5	1884.2	2119.6	2296.1	2324.6
142.5°	1346.6	1392.2	1437.8	1449.2	1555.0	1696.0	1766.5	1869.8	2076.6	2231.7	2256.1
145°	1401.5	1441.3	1481.0	1491.0	1578.9	1696.0	1754.5	1839.0	2008.2	2135.1	2153.6
147.5°	1456.4	1495.1	1533.8	1543.5	1613.9	1707.7	1754.5	1821.1	1954.1	2053.9	2069.3
150°	1492.1	1527.1	1562.1	1570.8	1632.0	1713.7	1754.5	1810.7	1923.1	2007.4	2019.9
152.5°	1529.1	1555.6	1582.2	1588.8	1644.1	1717.7	1754.5	1802.5	1898.4	1970.4	1979.8
155°	1584.0	1603.6	1623.2	1628.1	1670.3	1726.4	1754.5	1792.7	1869.1	1926.3	1932.6
157.5°	1624.6	1643.7	1662.7	1667.5	1696.5	1735.2	1754.5	1784.3	1843.6	1888.2	1892.6
160°	1652.0	1666.8	1681.7	1685.4	1708.4	1739.1	1754.5	1780.0	1830.9	1869.1	1871.6
162.5°	1679.5	1690.5	1701.7	1704.5	1721.1	1743.4	1754.5	1776.0	1819.0	1851.2	1853.6
165°	1709.2	1719.2	1729.4	1731.9	1739.4	1749.5	1754.5	1769.9	1800.7	1823.7	1826.2
167.5°	1736.6	1741.4	1746.2	1747.4	1753.8	1762.3	1766.5	1776.5	1796.7	1811.8	1812.8
170°	1754.5	1759.3	1764.1	1765.3	1765.7	1766.2	1766.5	1776.5	1796.7	1811.8	1811.8
172.5°	1764.1	1765.1	1766.2	1766.5	1766.5	1766.5	1766.5	1774.4	1790.3	1802.2	1801.3
175°	1777.2	1777.2	1777.2	1777.2	1773.6	1768.9	1766.5	1771.5	1781.6	1789.1	1789.1
177.5°	1777.2	1777.2	1777.2	1777.2	1774.4	1770.7	1768.9	1772.9	1780.8	1786.7	1785.7
180°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2



TEST NUMBER: P936048

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2738.9	2731.4	2738.9	2733.9	2736.4	2728.9	2706.1	2698.6	2706.1	2713.7	2713.7
5°	2771.8	2766.7	2771.8	2771.8	2769.3	2764.3	2738.9	2733.9	2738.9	2741.5	2736.4
7.5°	2781.9	2774.3	2781.9	2776.9	2776.9	2771.8	2746.6	2741.5	2744.0	2751.6	2744.0
10°	2781.9	2774.3	2781.9	2779.4	2776.9	2771.8	2746.6	2736.4	2736.4	2744.0	2736.4
12.5°	2769.3	2764.3	2769.3	2764.3	2764.3	2759.2	2733.9	2723.8	2726.3	2728.9	2718.7
15°	2749.1	2741.5	2749.1	2744.0	2746.6	2738.9	2711.2	2701.1	2701.1	2706.1	2688.4
17.5°	2718.7	2708.6	2718.7	2716.3	2713.7	2708.6	2683.4	2673.2	2670.7	2673.2	2660.6
20°	2683.4	2675.8	2683.4	2680.9	2680.9	2670.7	2645.5	2632.9	2632.9	2632.9	2620.2
22.5°	2627.8	2620.2	2627.8	2632.9	2632.9	2630.3	2607.5	2589.8	2584.8	2584.8	2569.7
25°	2564.6	2557.1	2564.6	2564.6	2562.1	2564.6	2557.1	2546.9	2539.4	2531.8	2516.6
27.5°	2504.0	2498.9	2504.0	2498.9	2504.0	2496.4	2493.8	2491.4	2481.2	2473.7	2453.4
30°	2443.4	2438.3	2443.4	2438.3	2433.2	2428.2	2415.5	2410.5	2420.6	2415.5	2382.7
32.5°	2367.5	2362.5	2367.5	2367.5	2362.5	2362.5	2342.3	2334.6	2337.2	2352.3	2322.0
35°	2289.2	2281.7	2289.2	2286.6	2289.2	2281.7	2269.0	2266.5	2256.3	2274.0	2251.3
37.5°	2198.3	2190.6	2198.3	2198.3	2198.3	2203.3	2193.2	2185.6	2170.5	2193.2	2175.5
40°	2104.8	2094.6	2104.8	2102.2	2104.8	2109.8	2104.8	2099.7	2084.5	2102.2	2087.1
42.5°	1998.6	1996.1	1998.6	2001.1	2001.1	2011.3	2018.8	2008.8	2003.7	1991.1	2001.1
45°	1884.9	1879.9	1884.9	1890.0	1892.5	1897.6	1920.3	1920.3	1912.8	1892.5	1907.7
47.5°	1763.6	1751.0	1763.6	1778.8	1778.8	1786.4	1809.1	1826.8	1814.2	1788.9	1796.5
50°	1634.8	1637.3	1634.8	1644.8	1644.8	1672.7	1690.4	1708.0	1720.7	1690.4	1655.0
52.5°	1508.5	1505.9	1508.5	1516.0	1526.2	1538.8	1569.1	1586.8	1607.0	1589.3	1533.7
55°	1382.1	1387.1	1382.1	1384.7	1389.7	1397.3	1442.8	1460.4	1498.4	1475.6	1417.5
57.5°	1255.8	1248.2	1255.8	1260.8	1263.3	1271.0	1308.8	1341.7	1364.4	1367.0	1296.2
60°	1109.2	1099.1	1109.2	1131.9	1137.0	1142.1	1177.5	1207.8	1227.9	1235.6	1162.3
62.5°	980.4	962.7	980.4	995.5	1005.6	1018.2	1043.5	1089.0	1106.7	1109.2	1005.6
65°	843.9	836.4	843.9	874.2	876.7	891.9	919.8	952.6	990.4	985.5	836.4
67.5°	720.1	720.1	720.1	740.3	755.5	763.0	798.4	813.6	861.6	866.7	697.4
70°	606.4	603.9	606.4	621.5	631.7	649.4	682.2	699.9	737.8	750.4	566.0
72.5°	497.8	495.2	497.8	510.4	520.5	535.7	563.5	583.7	616.6	631.7	439.7
75°	401.8	396.7	401.8	411.8	409.3	429.5	452.3	472.5	502.9	512.9	326.0
77.5°	308.3	308.3	308.3	318.4	318.4	338.6	348.7	374.0	391.7	406.8	240.0
80°	230.0	227.4	230.0	232.5	232.5	242.6	260.3	278.0	293.1	293.1	164.3
82.5°	161.7	156.6	161.7	161.7	161.7	166.8	176.9	182.0	192.0	199.7	103.6
85°	101.1	101.1	101.1	103.6	101.1	106.1	108.6	113.7	113.7	108.6	63.2
87.5°	65.7	63.2	65.7	63.2	63.2	60.6	60.6	60.6	58.1	55.6	35.4
90°	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9	52.5	33.4
92.5°	181.6	145.5	181.6	217.6	226.6	321.3	447.4	510.5	448.3	323.7	230.3
95°	632.8	523.6	632.8	742.0	769.4	1010.3	1331.5	1492.1	1260.2	796.3	448.5
97.5°	1516.2	1308.5	1516.2	1724.1	1776.0	1928.4	2131.4	2232.9	1846.2	1072.8	492.6
100°	2184.6	1937.1	2184.6	2432.2	2494.0	2482.9	2468.1	2460.7	2031.5	1173.3	529.6
102.5°	2842.1	2630.1	2842.1	3054.2	3107.1	2913.1	2654.5	2525.1	2089.9	1219.4	566.5
105°	3680.4	3566.4	3680.4	3794.4	3822.9	3387.9	2808.0	2517.9	2096.5	1253.6	621.4
107.5°	4229.4	4257.0	4229.4	4201.9	4195.0	3588.3	2779.3	2374.8	2003.2	1260.0	702.5
110°	4438.8	4557.6	4438.8	4320.1	4290.4	3612.1	2707.7	2255.6	1920.5	1250.4	747.8





TEST NUMBER: P936048

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4457.5	4639.8	4457.5	4275.1	4229.5	3535.3	2609.7	2146.9	1848.2	1250.8	802.7
115°	4339.3	4592.1	4339.3	4086.4	4023.2	3354.4	2462.8	2017.0	1765.4	1262.4	885.1
117.5°	4088.7	4369.1	4088.7	3808.2	3738.1	3134.6	2329.9	1927.5	1713.6	1285.8	965.0
120°	3886.7	4159.2	3886.7	3614.2	3546.1	2994.7	2259.4	1891.7	1696.1	1304.9	1011.5
122.5°	3690.0	3958.8	3690.0	3421.3	3354.0	2857.5	2195.3	1864.3	1687.0	1332.4	1066.3
125°	3409.5	3657.1	3409.5	3161.8	3100.0	2678.1	2115.7	1834.5	1679.4	1369.3	1136.7
127.5°	3157.2	3366.0	3157.2	2948.2	2896.0	2533.8	2050.8	1809.4	1675.1	1406.3	1204.7
130°	3008.5	3201.4	3008.5	2815.5	2767.2	2444.8	2014.8	1799.8	1677.6	1433.3	1250.0
132.5°	2873.5	3046.3	2873.5	2700.7	2657.5	2368.8	1983.9	1791.5	1679.5	1455.2	1287.0
135°	2688.6	2837.6	2688.6	2539.6	2502.5	2260.7	1938.4	1777.2	1677.8	1479.0	1330.0
137.5°	2540.3	2662.2	2540.3	2418.4	2387.9	2183.6	1911.1	1774.9	1688.2	1514.8	1384.8
140°	2438.6	2552.6	2438.6	2324.6	2296.1	2119.6	1884.2	1766.5	1689.9	1536.7	1421.8
142.5°	2354.2	2452.3	2354.2	2256.1	2231.7	2076.6	1869.8	1766.5	1696.0	1555.0	1449.2
145°	2227.8	2302.0	2227.8	2153.6	2135.1	2008.2	1839.0	1754.5	1696.0	1578.9	1491.0
147.5°	2130.8	2192.3	2130.8	2069.3	2053.9	1954.1	1821.1	1754.5	1707.7	1613.9	1543.5
150°	2069.8	2119.6	2069.8	2019.9	2007.4	1923.1	1810.7	1754.5	1713.7	1632.0	1570.8
152.5°	2017.5	2055.1	2017.5	1979.8	1970.4	1898.4	1802.5	1754.5	1717.7	1644.1	1588.8
155°	1957.5	1982.4	1957.5	1932.6	1926.3	1869.1	1792.7	1754.5	1726.4	1670.3	1628.1
157.5°	1910.0	1927.5	1910.0	1892.6	1888.2	1843.6	1784.3	1754.5	1735.2	1696.5	1667.5
160°	1881.7	1891.7	1881.7	1871.6	1869.1	1830.9	1780.0	1754.5	1739.1	1708.4	1685.4
162.5°	1863.0	1872.6	1863.0	1853.6	1851.2	1819.0	1776.0	1754.5	1743.4	1721.1	1704.5
165°	1836.4	1846.4	1836.4	1826.2	1823.7	1800.7	1769.9	1754.5	1749.5	1739.4	1731.9
167.5°	1817.1	1821.4	1817.1	1812.8	1811.8	1796.7	1776.5	1766.5	1762.3	1753.8	1747.4
170°	1811.8	1811.8	1811.8	1811.8	1811.8	1796.7	1776.5	1766.5	1766.2	1765.7	1765.3
172.5°	1797.6	1793.9	1797.6	1801.3	1802.2	1790.3	1774.4	1766.5	1766.5	1766.5	1766.5
175°	1789.1	1789.1	1789.1	1789.1	1789.1	1781.6	1771.5	1766.5	1768.9	1773.6	1777.2
177.5°	1781.4	1777.2	1781.4	1785.7	1786.7	1780.8	1772.9	1768.9	1770.7	1774.4	1777.2
180°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2



TEST NUMBER: P936048

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2708.6	2693.5	2693.5	2668.3	2658.1	2650.6	2637.8	2600.0	2589.8	2579.8	2594.9
5°	2731.4	2703.5	2683.4	2637.8	2600.0	2584.8	2536.8	2445.8	2385.2	2339.7	2314.5
7.5°	2736.4	2701.1	2663.2	2592.4	2501.4	2461.0	2314.5	2147.7	2102.2	2061.8	2036.5
10°	2731.4	2690.9	2637.8	2531.8	2317.0	2246.3	2099.7	1991.1	1963.3	1955.7	1963.3
12.5°	2713.7	2675.8	2602.5	2425.7	2124.9	2076.9	1991.1	1927.9	1922.8	1935.4	2003.7
15°	2683.4	2648.0	2562.1	2284.2	2018.8	1983.4	1922.8	1900.1	1927.9	2016.3	2220.9
17.5°	2653.1	2612.6	2506.5	2145.2	1938.0	1912.8	1869.7	1915.3	2071.9	2190.6	2258.9
20°	2612.6	2564.6	2443.4	2044.1	1879.9	1857.1	1836.9	2041.6	2160.3	2203.3	2241.2
22.5°	2564.6	2514.1	2357.4	1973.4	1819.3	1801.6	1814.2	2112.3	2160.3	2190.6	2223.5
25°	2501.4	2458.5	2256.3	1917.7	1771.3	1751.0	1799.0	2104.8	2132.5	2140.2	2205.8
27.5°	2443.4	2387.7	2150.2	1867.3	1713.1	1705.6	1811.7	2071.9	2092.2	2099.7	2170.5
30°	2372.6	2289.2	2031.4	1814.2	1652.5	1649.9	1814.2	2031.4	2026.5	2046.6	2117.4
32.5°	2299.4	2142.6	1897.6	1748.5	1594.4	1591.9	1796.5	1970.8	1965.7	1993.6	2046.6
35°	2231.1	2028.9	1715.6	1672.7	1521.1	1523.6	1753.6	1900.1	1902.6	1927.9	1960.8
37.5°	2160.3	1930.4	1516.0	1589.3	1450.4	1450.4	1695.4	1834.4	1829.4	1836.9	1882.4
40°	2076.9	1776.3	1339.1	1480.7	1384.7	1377.0	1624.7	1763.6	1745.9	1743.4	1806.6
42.5°	1988.5	1607.0	1207.8	1336.7	1308.8	1298.7	1538.8	1677.7	1644.8	1652.5	1733.3
45°	1892.5	1561.5	1106.7	1129.5	1230.5	1223.0	1445.3	1579.2	1556.5	1576.7	1660.0
47.5°	1796.5	1470.5	1073.9	937.5	1147.1	1144.6	1341.7	1483.2	1470.5	1490.8	1579.2
50°	1665.1	1369.5	1071.3	803.5	1053.6	1063.8	1217.9	1389.7	1389.7	1407.4	1500.8
52.5°	1495.8	1245.6	972.8	727.7	945.0	975.3	1109.2	1308.8	1313.9	1331.6	1415.0
55°	1341.7	1116.8	902.1	669.6	816.1	881.8	1003.1	1225.5	1235.6	1253.3	1329.0
57.5°	1200.2	929.8	886.9	601.3	697.4	760.6	909.6	1144.6	1149.6	1164.8	1238.1
60°	1048.6	672.1	813.6	528.1	593.8	641.8	823.7	1048.6	1066.3	1076.4	1139.6
62.5°	876.7	487.7	737.8	477.5	543.2	553.3	753.0	957.6	980.4	987.9	1025.8
65°	624.1	409.3	626.6	434.6	490.1	492.7	677.2	864.1	884.4	897.0	924.7
67.5°	422.0	333.5	477.5	394.1	449.8	452.3	603.9	755.5	783.3	793.4	811.0
70°	293.1	222.3	353.7	351.2	404.3	409.3	525.5	656.9	682.2	689.8	699.9
72.5°	214.8	179.4	293.1	315.8	356.3	361.3	444.7	545.8	571.0	578.6	583.7
75°	164.3	189.5	237.5	275.4	303.2	305.7	363.8	444.7	462.4	467.5	470.0
77.5°	131.4	176.9	174.3	222.3	247.7	242.6	285.5	343.7	358.8	358.8	358.8
80°	98.6	138.9	131.4	159.2	182.0	176.9	204.6	245.1	250.1	255.2	252.6
82.5°	73.2	88.4	88.4	101.1	121.2	116.3	136.4	159.2	159.2	159.2	164.3
85°	45.5	50.5	40.4	53.1	68.2	65.7	75.8	85.9	88.4	88.4	83.4
87.5°	27.8	22.8	12.6	20.2	30.3	30.3	35.4	37.9	35.4	35.4	35.4
90°	31.0	21.5	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4
92.5°	210.0	128.8	47.7	128.8	210.0	230.3	323.7	448.3	510.5	447.4	321.3
95°	411.4	263.0	114.6	263.0	411.4	448.5	796.3	1260.2	1492.1	1331.5	1010.3
97.5°	459.9	328.9	198.0	328.9	459.9	492.6	1072.8	1846.2	2232.9	2131.4	1928.4
100°	499.9	381.1	262.4	381.1	499.9	529.6	1173.3	2031.5	2460.7	2468.1	2482.9
102.5°	538.8	428.1	317.3	428.1	538.8	566.5	1219.4	2089.9	2525.1	2654.5	2913.1
105°	598.0	504.1	410.3	504.1	598.0	621.4	1253.6	2096.5	2517.9	2808.0	3387.9
107.5°	680.6	593.2	505.7	593.2	680.6	702.5	1260.0	2003.2	2374.8	2779.3	3588.3
110°	728.1	649.2	570.2	649.2	728.1	747.8	1250.4	1920.5	2255.6	2707.7	3612.1



TEST NUMBER: P936048

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	783.9	708.6	633.4	708.6	783.9	802.7	1250.8	1848.2	2146.9	2609.7	3535.3
115°	867.6	798.2	728.8	798.2	867.6	885.1	1262.4	1765.4	2017.0	2462.8	3354.4
117.5°	949.2	886.1	823.0	886.1	949.2	965.0	1285.8	1713.6	1927.5	2329.9	3134.6
120°	996.6	937.3	877.9	937.3	996.6	1011.5	1304.9	1696.1	1891.7	2259.4	2994.7
122.5°	1051.3	991.5	931.5	991.5	1051.3	1066.3	1332.4	1687.0	1864.3	2195.3	2857.5
125°	1123.0	1068.5	1013.9	1068.5	1123.0	1136.7	1369.3	1679.4	1834.5	2115.7	2678.1
127.5°	1190.9	1135.8	1080.7	1135.8	1190.9	1204.7	1406.3	1675.1	1809.4	2050.8	2533.8
130°	1235.2	1175.8	1116.5	1175.8	1235.2	1250.0	1433.3	1677.6	1799.8	2014.8	2444.8
132.5°	1272.2	1212.8	1153.5	1212.8	1272.2	1287.0	1455.2	1679.5	1791.5	1983.9	2368.8
135°	1316.5	1262.4	1208.2	1262.4	1316.5	1330.0	1479.0	1677.8	1777.2	1938.4	2260.7
137.5°	1371.4	1317.9	1264.4	1317.9	1371.4	1384.8	1514.8	1688.2	1774.9	1911.1	2183.6
140°	1409.4	1360.2	1310.8	1360.2	1409.4	1421.8	1536.7	1689.9	1766.5	1884.2	2119.6
142.5°	1437.8	1392.2	1346.6	1392.2	1437.8	1449.2	1555.0	1696.0	1766.5	1869.8	2076.6
145°	1481.0	1441.3	1401.5	1441.3	1481.0	1491.0	1578.9	1696.0	1754.5	1839.0	2008.2
147.5°	1533.8	1495.1	1456.4	1495.1	1533.8	1543.5	1613.9	1707.7	1754.5	1821.1	1954.1
150°	1562.1	1527.1	1492.1	1527.1	1562.1	1570.8	1632.0	1713.7	1754.5	1810.7	1923.1
152.5°	1582.2	1555.6	1529.1	1555.6	1582.2	1588.8	1644.1	1717.7	1754.5	1802.5	1898.4
155°	1623.2	1603.6	1584.0	1603.6	1623.2	1628.1	1670.3	1726.4	1754.5	1792.7	1869.1
157.5°	1662.7	1643.7	1624.6	1643.7	1662.7	1667.5	1696.5	1735.2	1754.5	1784.3	1843.6
160°	1681.7	1666.8	1652.0	1666.8	1681.7	1685.4	1708.4	1739.1	1754.5	1780.0	1830.9
162.5°	1701.7	1690.5	1679.5	1690.5	1701.7	1704.5	1721.1	1743.4	1754.5	1776.0	1819.0
165°	1729.4	1719.2	1709.2	1719.2	1729.4	1731.9	1739.4	1749.5	1754.5	1769.9	1800.7
167.5°	1746.2	1741.4	1736.6	1741.4	1746.2	1747.4	1753.8	1762.3	1766.5	1776.5	1796.7
170°	1764.1	1759.3	1754.5	1759.3	1764.1	1765.3	1765.7	1766.2	1766.5	1776.5	1796.7
172.5°	1766.2	1765.1	1764.1	1765.1	1766.2	1766.5	1766.5	1766.5	1766.5	1774.4	1790.3
175°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1773.6	1768.9	1766.5	1771.5	1781.6
177.5°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1774.4	1770.7	1768.9	1772.9	1780.8
180°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2



TEST NUMBER: P936048

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2577.2	2569.7	2579.8	2552.0	2579.8	2569.7	2577.2	2594.9	2579.8	2589.8	2600.0
5°	2261.4	2248.8	2208.3	2175.5	2208.3	2248.8	2261.4	2314.5	2339.7	2385.2	2445.8
7.5°	2021.4	2011.3	2001.1	1980.9	2001.1	2011.3	2021.4	2036.5	2061.8	2102.2	2147.7
10°	1968.3	1970.8	1986.0	1983.4	1986.0	1970.8	1968.3	1963.3	1955.7	1963.3	1991.1
12.5°	2104.8	2127.5	2210.9	2205.8	2210.9	2127.5	2104.8	2003.7	1935.4	1922.8	1927.9
15°	2261.4	2269.0	2286.6	2289.2	2286.6	2269.0	2261.4	2220.9	2016.3	1927.9	1900.1
17.5°	2276.6	2279.1	2291.7	2291.7	2291.7	2279.1	2276.6	2258.9	2190.6	2071.9	1915.3
20°	2264.0	2269.0	2294.3	2299.4	2294.3	2269.0	2264.0	2241.2	2203.3	2160.3	2041.6
22.5°	2258.9	2269.0	2289.2	2286.6	2289.2	2269.0	2258.9	2223.5	2190.6	2160.3	2112.3
25°	2233.6	2233.6	2236.2	2238.6	2236.2	2233.6	2233.6	2205.8	2140.2	2132.5	2104.8
27.5°	2180.6	2185.6	2200.8	2198.3	2200.8	2185.6	2180.6	2170.5	2099.7	2092.2	2071.9
30°	2132.5	2127.5	2114.8	2104.8	2114.8	2127.5	2132.5	2117.4	2046.6	2026.5	2031.4
32.5°	2051.7	2039.1	2026.5	2018.8	2026.5	2039.1	2051.7	2046.6	1993.6	1965.7	1970.8
35°	1955.7	1958.2	1955.7	1948.1	1955.7	1958.2	1955.7	1960.8	1927.9	1902.6	1900.1
37.5°	1887.4	1892.5	1890.0	1879.9	1890.0	1892.5	1887.4	1882.4	1836.9	1829.4	1834.4
40°	1816.7	1819.3	1816.7	1809.1	1816.7	1819.3	1816.7	1806.6	1743.4	1745.9	1763.6
42.5°	1748.5	1745.9	1738.4	1733.3	1738.4	1745.9	1748.5	1733.3	1652.5	1644.8	1677.7
45°	1670.2	1672.7	1657.6	1649.9	1657.6	1672.7	1670.2	1660.0	1576.7	1556.5	1579.2
47.5°	1591.9	1591.9	1579.2	1571.6	1579.2	1591.9	1591.9	1579.2	1490.8	1470.5	1483.2
50°	1508.5	1505.9	1488.2	1485.7	1488.2	1505.9	1508.5	1500.8	1407.4	1389.7	1389.7
52.5°	1412.4	1412.4	1415.0	1420.0	1415.0	1412.4	1412.4	1415.0	1331.6	1313.9	1308.8
55°	1329.0	1331.6	1349.3	1354.4	1349.3	1331.6	1329.0	1329.0	1253.3	1235.6	1225.5
57.5°	1243.1	1243.1	1255.8	1255.8	1255.8	1243.1	1243.1	1238.1	1164.8	1149.6	1144.6
60°	1144.6	1149.6	1159.8	1157.3	1159.8	1149.6	1144.6	1139.6	1076.4	1066.3	1048.6
62.5°	1041.0	1046.1	1048.6	1043.5	1048.6	1046.1	1041.0	1025.8	987.9	980.4	957.6
65°	932.4	937.5	939.9	934.9	939.9	937.5	932.4	924.7	897.0	884.4	864.1
67.5°	821.2	818.7	816.1	826.2	816.1	818.7	821.2	811.0	793.4	783.3	755.5
70°	707.5	707.5	704.9	710.0	704.9	707.5	707.5	699.9	689.8	682.2	656.9
72.5°	586.2	583.7	593.8	586.2	593.8	583.7	586.2	583.7	578.6	571.0	545.8
75°	467.5	472.5	467.5	475.0	467.5	472.5	467.5	470.0	467.5	462.4	444.7
77.5°	356.3	361.3	356.3	356.3	356.3	361.3	356.3	358.8	358.8	358.8	343.7
80°	252.6	250.1	250.1	247.7	250.1	250.1	252.6	252.6	255.2	250.1	245.1
82.5°	161.7	159.2	159.2	164.3	159.2	159.2	161.7	164.3	159.2	159.2	159.2
85°	88.4	90.9	85.9	85.9	85.9	90.9	88.4	83.4	88.4	88.4	85.9
87.5°	32.9	30.3	30.3	30.3	30.3	30.3	32.9	35.4	35.4	35.4	37.9
90°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9
92.5°	226.6	217.6	181.6	145.5	181.6	217.6	226.6	321.3	447.4	510.5	448.3
95°	769.4	742.0	632.8	523.6	632.8	742.0	769.4	1010.3	1331.5	1492.1	1260.2
97.5°	1776.0	1724.1	1516.2	1308.5	1516.2	1724.1	1776.0	1928.4	2131.4	2232.9	1846.2
100°	2494.0	2432.2	2184.6	1937.1	2184.6	2432.2	2494.0	2482.9	2468.1	2460.7	2031.5
102.5°	3107.1	3054.2	2842.1	2630.1	2842.1	3054.2	3107.1	2913.1	2654.5	2525.1	2089.9
105°	3822.9	3794.4	3680.4	3566.4	3680.4	3794.4	3822.9	3387.9	2808.0	2517.9	2096.5
107.5°	4195.0	4201.9	4229.4	4257.0	4229.4	4201.9	4195.0	3588.3	2779.3	2374.8	2003.2
110°	4290.4	4320.1	4438.8	4557.6	4438.8	4320.1	4290.4	3612.1	2707.7	2255.6	1920.5



TEST NUMBER: P936048

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4229.5	4275.1	4457.5	4639.8	4457.5	4275.1	4229.5	3535.3	2609.7	2146.9	1848.2
115°	4023.2	4086.4	4339.3	4592.1	4339.3	4086.4	4023.2	3354.4	2462.8	2017.0	1765.4
117.5°	3738.1	3808.2	4088.7	4369.1	4088.7	3808.2	3738.1	3134.6	2329.9	1927.5	1713.6
120°	3546.1	3614.2	3886.7	4159.2	3886.7	3614.2	3546.1	2994.7	2259.4	1891.7	1696.1
122.5°	3354.0	3421.3	3690.0	3958.8	3690.0	3421.3	3354.0	2857.5	2195.3	1864.3	1687.0
125°	3100.0	3161.8	3409.5	3657.1	3409.5	3161.8	3100.0	2678.1	2115.7	1834.5	1679.4
127.5°	2896.0	2948.2	3157.2	3366.0	3157.2	2948.2	2896.0	2533.8	2050.8	1809.4	1675.1
130°	2767.2	2815.5	3008.5	3201.4	3008.5	2815.5	2767.2	2444.8	2014.8	1799.8	1677.6
132.5°	2657.5	2700.7	2873.5	3046.3	2873.5	2700.7	2657.5	2368.8	1983.9	1791.5	1679.5
135°	2502.5	2539.6	2688.6	2837.6	2688.6	2539.6	2502.5	2260.7	1938.4	1777.2	1677.8
137.5°	2387.9	2418.4	2540.3	2662.2	2540.3	2418.4	2387.9	2183.6	1911.1	1774.9	1688.2
140°	2296.1	2324.6	2438.6	2552.6	2438.6	2324.6	2296.1	2119.6	1884.2	1766.5	1689.9
142.5°	2231.7	2256.1	2354.2	2452.3	2354.2	2256.1	2231.7	2076.6	1869.8	1766.5	1696.0
145°	2135.1	2153.6	2227.8	2302.0	2227.8	2153.6	2135.1	2008.2	1839.0	1754.5	1696.0
147.5°	2053.9	2069.3	2130.8	2192.3	2130.8	2069.3	2053.9	1954.1	1821.1	1754.5	1707.7
150°	2007.4	2019.9	2069.8	2119.6	2069.8	2019.9	2007.4	1923.1	1810.7	1754.5	1713.7
152.5°	1970.4	1979.8	2017.5	2055.1	2017.5	1979.8	1970.4	1898.4	1802.5	1754.5	1717.7
155°	1926.3	1932.6	1957.5	1982.4	1957.5	1932.6	1926.3	1869.1	1792.7	1754.5	1726.4
157.5°	1888.2	1892.6	1910.0	1927.5	1910.0	1892.6	1888.2	1843.6	1784.3	1754.5	1735.2
160°	1869.1	1871.6	1881.7	1891.7	1881.7	1871.6	1869.1	1830.9	1780.0	1754.5	1739.1
162.5°	1851.2	1853.6	1863.0	1872.6	1863.0	1853.6	1851.2	1819.0	1776.0	1754.5	1743.4
165°	1823.7	1826.2	1836.4	1846.4	1836.4	1826.2	1823.7	1800.7	1769.9	1754.5	1749.5
167.5°	1811.8	1812.8	1817.1	1821.4	1817.1	1812.8	1811.8	1796.7	1776.5	1766.5	1762.3
170°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1796.7	1776.5	1766.5	1766.2
172.5°	1802.2	1801.3	1797.6	1793.9	1797.6	1801.3	1802.2	1790.3	1774.4	1766.5	1766.5
175°	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1789.1	1781.6	1771.5	1766.5	1768.9
177.5°	1786.7	1785.7	1781.4	1777.2	1781.4	1785.7	1786.7	1780.8	1772.9	1768.9	1770.7
180°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2



TEST NUMBER: P936048

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2637.8	2650.6	2658.1	2668.3	2693.5
5°	2536.8	2584.8	2600.0	2637.8	2683.4
7.5°	2314.5	2461.0	2501.4	2592.4	2663.2
10°	2099.7	2246.3	2317.0	2531.8	2637.8
12.5°	1991.1	2076.9	2124.9	2425.7	2602.5
15°	1922.8	1983.4	2018.8	2284.2	2562.1
17.5°	1869.7	1912.8	1938.0	2145.2	2506.5
20°	1836.9	1857.1	1879.9	2044.1	2443.4
22.5°	1814.2	1801.6	1819.3	1973.4	2357.4
25°	1799.0	1751.0	1771.3	1917.7	2256.3
27.5°	1811.7	1705.6	1713.1	1867.3	2150.2
30°	1814.2	1649.9	1652.5	1814.2	2031.4
32.5°	1796.5	1591.9	1594.4	1748.5	1897.6
35°	1753.6	1523.6	1521.1	1672.7	1715.6
37.5°	1695.4	1450.4	1450.4	1589.3	1516.0
40°	1624.7	1377.0	1384.7	1480.7	1339.1
42.5°	1538.8	1298.7	1308.8	1336.7	1207.8
45°	1445.3	1223.0	1230.5	1129.5	1106.7
47.5°	1341.7	1144.6	1147.1	937.5	1073.9
50°	1217.9	1063.8	1053.6	803.5	1071.3
52.5°	1109.2	975.3	945.0	727.7	972.8
55°	1003.1	881.8	816.1	669.6	902.1
57.5°	909.6	760.6	697.4	601.3	886.9
60°	823.7	641.8	593.8	528.1	813.6
62.5°	753.0	553.3	543.2	477.5	737.8
65°	677.2	492.7	490.1	434.6	626.6
67.5°	603.9	452.3	449.8	394.1	477.5
70°	525.5	409.3	404.3	351.2	353.7
72.5°	444.7	361.3	356.3	315.8	293.1
75°	363.8	305.7	303.2	275.4	237.5
77.5°	285.5	242.6	247.7	222.3	174.3
80°	204.6	176.9	182.0	159.2	131.4
82.5°	136.4	116.3	121.2	101.1	88.4
85°	75.8	65.7	68.2	53.1	40.4
87.5°	35.4	30.3	30.3	20.2	12.6
90°	52.5	33.4	31.0	21.5	12.0
92.5°	323.7	230.3	210.0	128.8	47.7
95°	796.3	448.5	411.4	263.0	114.6
97.5°	1072.8	492.6	459.9	328.9	198.0
100°	1173.3	529.6	499.9	381.1	262.4
102.5°	1219.4	566.5	538.8	428.1	317.3
105°	1253.6	621.4	598.0	504.1	410.3
107.5°	1260.0	702.5	680.6	593.2	505.7
110°	1250.4	747.8	728.1	649.2	570.2



TEST NUMBER: P936048

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1250.8	802.7	783.9	708.6	633.4
115°	1262.4	885.1	867.6	798.2	728.8
117.5°	1285.8	965.0	949.2	886.1	823.0
120°	1304.9	1011.5	996.6	937.3	877.9
122.5°	1332.4	1066.3	1051.3	991.5	931.5
125°	1369.3	1136.7	1123.0	1068.5	1013.9
127.5°	1406.3	1204.7	1190.9	1135.8	1080.7
130°	1433.3	1250.0	1235.2	1175.8	1116.5
132.5°	1455.2	1287.0	1272.2	1212.8	1153.5
135°	1479.0	1330.0	1316.5	1262.4	1208.2
137.5°	1514.8	1384.8	1371.4	1317.9	1264.4
140°	1536.7	1421.8	1409.4	1360.2	1310.8
142.5°	1555.0	1449.2	1437.8	1392.2	1346.6
145°	1578.9	1491.0	1481.0	1441.3	1401.5
147.5°	1613.9	1543.5	1533.8	1495.1	1456.4
150°	1632.0	1570.8	1562.1	1527.1	1492.1
152.5°	1644.1	1588.8	1582.2	1555.6	1529.1
155°	1670.3	1628.1	1623.2	1603.6	1584.0
157.5°	1696.5	1667.5	1662.7	1643.7	1624.6
160°	1708.4	1685.4	1681.7	1666.8	1652.0
162.5°	1721.1	1704.5	1701.7	1690.5	1679.5
165°	1739.4	1731.9	1729.4	1719.2	1709.2
167.5°	1753.8	1747.4	1746.2	1741.4	1736.6
170°	1765.7	1765.3	1764.1	1759.3	1754.5
172.5°	1766.5	1766.5	1766.2	1765.1	1764.1
175°	1773.6	1777.2	1777.2	1777.2	1777.2
177.5°	1774.4	1777.2	1777.2	1777.2	1777.2
180°	1777.2	1777.2	1777.2	1777.2	1777.2



TEST NUMBER: P936048  
 CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-6500K

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.28	13.04	13.34	14.10	15.54	15.12	15.88	16.17	16.94	18.38
	3H	12.75	13.43	13.82	14.50	15.96	16.46	17.14	17.52	18.21	19.66
	4H	12.94	13.58	14.01	14.65	16.11	16.90	17.54	17.98	18.61	20.08
	6H	13.05	13.64	14.14	14.72	16.19	17.18	17.77	18.27	18.85	20.32
	8H	13.05	13.61	14.14	14.70	16.17	17.25	17.82	18.34	18.91	20.38
	12H	13.01	13.55	14.11	14.64	16.13	17.29	17.83	18.39	18.91	20.40
4H	2H	13.30	13.95	14.39	15.02	16.48	15.51	16.16	16.60	17.23	18.69
	3H	14.32	14.86	15.41	15.95	17.43	17.01	17.55	18.10	18.65	20.12
	4H	14.59	15.08	15.69	16.17	17.67	17.54	18.03	18.63	19.12	20.62
	6H	14.71	15.13	15.82	16.24	17.74	17.90	18.32	19.00	19.43	20.92
	8H	14.71	15.11	15.82	16.21	17.72	18.00	18.40	19.11	19.50	21.01
	12H	14.68	15.03	15.80	16.15	17.66	18.06	18.42	19.18	19.53	21.04
8H	4H	15.04	15.43	16.14	16.54	18.04	17.65	18.05	18.76	19.15	20.66
	6H	15.29	15.62	16.42	16.77	18.27	18.09	18.41	19.22	19.56	21.06
	8H	15.34	15.62	16.47	16.75	18.27	18.24	18.53	19.37	19.65	21.18
	12H	15.32	15.57	16.45	16.69	18.25	18.34	18.59	19.47	19.71	21.27
12H	4H	15.04	15.40	16.16	16.51	18.02	17.61	17.97	18.74	19.09	20.60
	6H	15.36	15.64	16.49	16.77	18.29	18.08	18.37	19.22	19.50	21.02
	8H	15.42	15.67	16.55	16.79	18.35	18.24	18.49	19.38	19.62	21.18