

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: P936067

Luminaire Tested: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

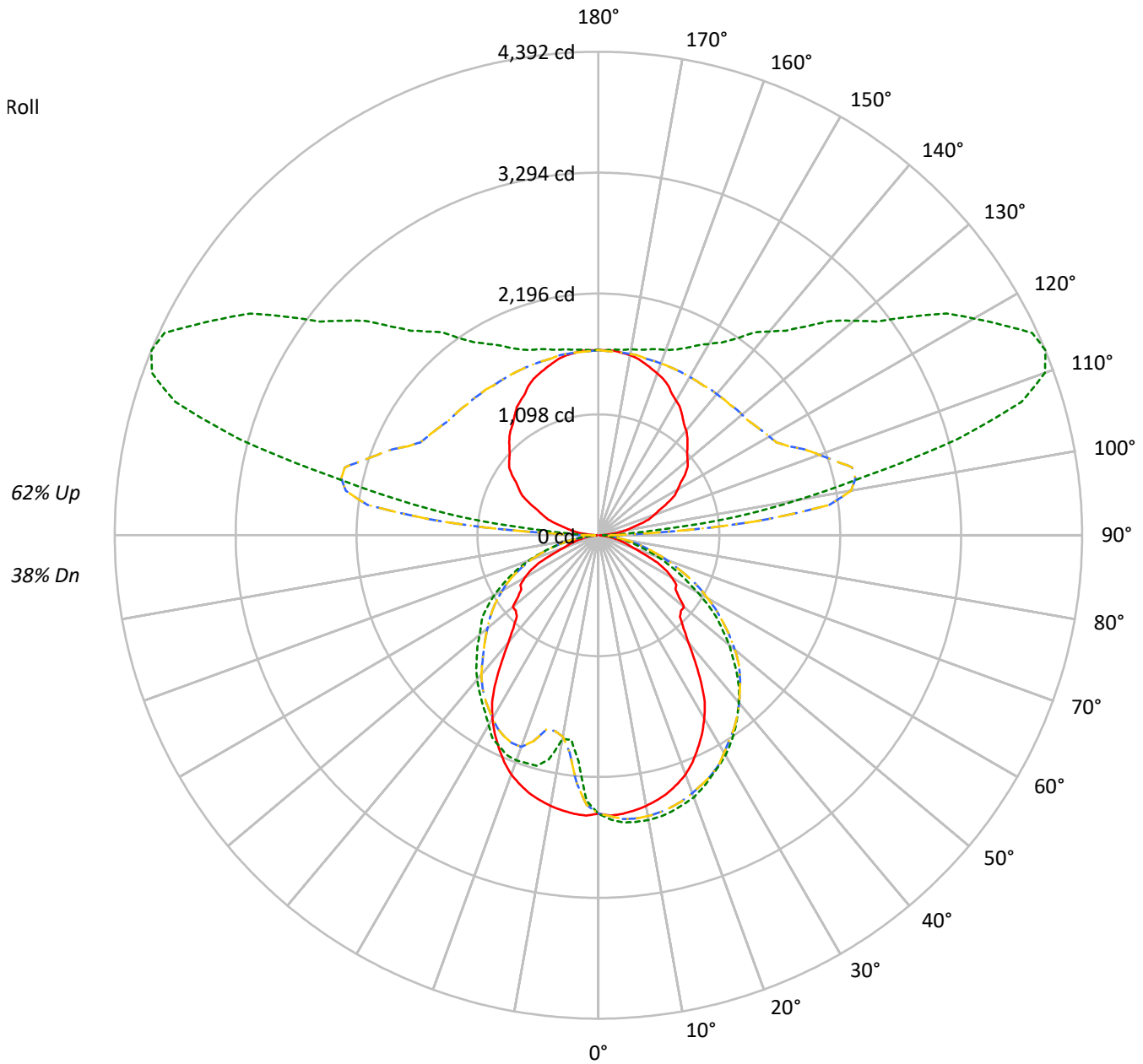
Test Method: LM-79-2019  
Report Number: P936067  
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17467.8 lumens  
Efficiency: N/A  
Efficacy: 120.6 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

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### Luminous Intensity Polar Plot



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



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

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	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°	11730	11730	11730	11730
5°	11818	11841	11818	9310
10°	11738	11663	11738	8339
15°	11611	11411	11611	9528
20°	11368	11112	11368	9548
25°	10871	10675	10871	9346
30°	10228	10313	10228	8902
35°	9118	9854	9118	8413
40°	7598	9314	7598	8045
45°	6789	8682	6789	7621
50°	7212	7929	7212	7195
55°	6786	7117	6786	6949
60°	6995	6045	6995	6364
65°	6342	4997	6342	5585
70°	4391	3982	4391	4682
75°	3850	2944	3850	3525
80°	3104	1945	3104	2119
85°	1784	1031	1784	876

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10405 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.2	1.3
10°-20°	648.0	3.7
20°-30°	1001.6	5.7
30°-40°	1195.7	6.8
40°-50°	1202.7	6.9
50°-60°	1046.5	6.0
60°-70°	742.0	4.2
70°-80°	392.6	2.2
80°-90°	104.2	0.6
90°-100°	820.1	4.7
100°-110°	2156.0	12.3
110°-120°	2235.6	12.8
120°-130°	1793.2	10.3
130°-140°	1407.0	8.1
140°-150°	1079.9	6.2
150°-160°	777.7	4.5
160°-170°	475.9	2.7
170°-180°	160.8	0.9
0°-30°	1877.8	10.8
0°-40°	3073.5	17.6
0°-60°	5322.8	30.5
0°-90°	6561.6	37.6
90°-120°	5211.7	29.8
90°-150°	9491.8	54.3
90°-180°	10906.0	62.4
0°-180°	17467.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2528	2528	2528	2528	2528	
5°	2540	2619	2540	2059	2540	241
15°	2425	2595	2425	2167	2425	682
25°	2136	2421	2136	2119	2136	981
35°	1624	2160	1624	1844	1624	1005
45°	1048	1780	1048	1562	1048	839
55°	854	1313	854	1282	854	785
65°	593	792	593	885	593	567
75°	225	376	225	450	225	236
85°	38	96	38	81	38	52
90°	11	43	11	43	11	11
95°	108	496	108	496	108	120
105°	388	3376	388	3376	388	412
115°	690	4347	690	4347	690	681
125°	960	3462	960	3462	960	852
135°	1144	2686	1144	2686	1144	885
145°	1327	2179	1327	2179	1327	831
155°	1500	1877	1500	1877	1500	689
165°	1618	1748	1618	1748	1618	457
175°	1682	1694	1682	1694	1682	160
180°	1682	1682	1682	1682	1682	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2549.7	2549.7	2564.0	2568.8	2568.8	2561.7	2554.5	2561.7	2583.2	2590.4	2588.0
5°	2540.2	2559.3	2585.6	2590.4	2595.2	2592.7	2588.0	2592.7	2616.7	2621.5	2623.9
7.5°	2521.1	2556.9	2590.4	2597.5	2604.8	2597.5	2595.2	2600.0	2623.9	2628.7	2628.7
10°	2497.1	2547.3	2585.6	2590.4	2597.5	2590.4	2590.4	2600.0	2623.9	2628.7	2631.0
12.5°	2463.6	2533.0	2568.8	2573.6	2583.2	2580.8	2578.4	2588.0	2611.9	2616.7	2616.7
15°	2425.4	2506.7	2540.2	2545.0	2561.7	2556.9	2556.9	2566.5	2592.7	2600.0	2597.5
17.5°	2372.7	2473.2	2511.5	2518.6	2530.6	2528.2	2530.6	2540.2	2564.0	2568.8	2571.3
20°	2313.0	2427.7	2473.2	2480.3	2492.4	2492.4	2492.4	2504.3	2528.2	2537.8	2537.8
22.5°	2231.6	2379.9	2427.7	2432.5	2446.8	2446.8	2451.6	2468.4	2489.9	2492.4	2492.4
25°	2135.9	2327.3	2367.9	2382.3	2396.7	2403.8	2411.0	2420.6	2427.7	2425.4	2427.7
27.5°	2035.4	2260.3	2313.0	2322.5	2341.7	2348.8	2358.4	2360.8	2363.2	2370.3	2365.5
30°	1923.0	2167.0	2246.0	2255.6	2286.6	2291.4	2281.8	2286.6	2298.6	2303.4	2308.2
32.5°	1796.3	2028.3	2176.6	2198.1	2226.8	2212.5	2210.0	2217.3	2236.4	2236.4	2241.2
35°	1624.0	1920.7	2112.0	2131.1	2152.7	2135.9	2145.5	2147.9	2159.9	2167.0	2164.6
37.5°	1435.1	1827.3	2045.0	2059.4	2076.2	2054.6	2068.9	2076.2	2085.7	2081.0	2081.0
40°	1267.7	1681.5	1966.1	1975.7	1990.0	1973.3	1987.6	1992.4	1997.2	1992.4	1990.0
42.5°	1143.3	1521.2	1882.4	1894.3	1884.8	1896.8	1901.6	1911.1	1903.9	1894.3	1894.3
45°	1047.6	1478.1	1791.5	1805.9	1791.5	1810.7	1817.8	1817.8	1796.3	1791.5	1789.1
47.5°	1016.6	1392.0	1700.6	1700.6	1693.5	1717.4	1729.3	1712.6	1691.0	1683.9	1683.9
50°	1014.1	1296.4	1576.2	1566.7	1600.1	1628.8	1616.9	1600.1	1583.4	1557.1	1557.1
52.5°	920.9	1179.2	1415.9	1451.9	1504.5	1521.2	1502.1	1485.4	1456.7	1444.7	1435.1
55°	853.9	1057.2	1270.1	1341.8	1396.8	1418.4	1382.5	1365.8	1322.7	1315.6	1310.8
57.5°	839.5	880.2	1136.2	1227.0	1294.0	1291.6	1270.1	1239.0	1203.1	1195.9	1193.5
60°	770.2	636.2	992.6	1100.2	1169.6	1162.4	1143.3	1114.6	1081.1	1076.3	1071.5
62.5°	698.4	461.6	829.9	952.0	1050.0	1047.6	1030.9	987.8	963.9	952.0	942.4
65°	593.2	387.5	590.8	791.7	932.9	937.6	901.7	870.7	844.3	829.9	827.6
67.5°	452.0	315.7	399.4	660.1	820.4	815.6	770.2	755.8	722.3	715.2	700.8
70°	334.8	210.4	277.4	535.8	710.4	698.4	662.6	645.8	614.7	597.9	588.4
72.5°	277.4	169.8	203.3	416.2	597.9	583.6	552.5	533.4	507.1	492.7	483.2
75°	224.8	179.4	155.5	308.6	485.5	476.0	447.2	428.1	406.6	387.5	389.9
77.5°	165.0	167.5	124.4	227.2	385.1	370.8	354.0	330.1	320.5	301.4	301.4
80°	124.4	131.5	93.3	155.5	277.4	277.4	263.1	246.4	229.6	220.0	220.0
82.5°	83.7	83.7	69.3	98.0	189.0	181.8	172.3	167.5	157.9	153.1	153.1
85°	38.3	47.8	43.1	59.8	102.8	107.6	107.6	102.8	100.5	95.7	98.0
87.5°	11.9	21.5	26.3	33.5	52.6	55.0	57.4	57.4	57.4	59.8	59.8
90°	11.3	20.4	29.3	31.6	49.7	73.8	85.8	76.3	57.2	42.9	42.9
92.5°	45.2	121.9	198.8	218.0	306.4	424.3	483.3	423.5	304.1	214.5	206.0
95°	108.4	248.9	389.4	424.5	753.8	1192.9	1412.5	1260.4	956.4	728.3	702.4
97.5°	187.5	311.4	435.4	466.3	1015.5	1747.7	2113.7	2017.6	1825.4	1681.2	1632.1
100°	248.4	360.8	473.2	501.4	1110.7	1923.1	2329.3	2336.4	2350.4	2360.9	2302.4
102.5°	300.3	405.2	510.1	536.3	1154.4	1978.3	2390.3	2512.8	2757.7	2941.3	2891.2
105°	388.4	477.2	566.1	588.3	1186.7	1984.6	2383.6	2658.1	3207.1	3618.8	3591.9
107.5°	478.7	561.6	644.3	665.0	1192.7	1896.3	2248.1	2630.9	3396.8	3971.1	3977.6
110°	539.7	614.5	689.3	707.9	1183.7	1818.0	2135.2	2563.2	3419.3	4061.5	4089.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	599.6	670.8	742.1	759.9	1184.0	1749.6	2032.4	2470.5	3346.7	4003.8	4047.0
115°	689.9	755.6	821.3	837.8	1195.0	1671.2	1909.3	2331.3	3175.4	3808.5	3868.3
117.5°	779.1	838.8	898.6	913.5	1217.2	1622.1	1824.6	2205.5	2967.3	3538.6	3605.0
120°	831.0	887.2	943.4	957.5	1235.3	1605.6	1790.8	2138.8	2834.9	3356.9	3421.3
122.5°	881.8	938.6	995.2	1009.4	1261.3	1597.0	1764.8	2078.2	2705.0	3175.0	3238.7
125°	959.7	1011.4	1063.1	1076.1	1296.2	1589.7	1736.6	2002.8	2535.2	2934.5	2993.1
127.5°	1023.0	1075.2	1127.4	1140.4	1331.2	1585.7	1712.8	1941.4	2398.6	2741.5	2790.9
130°	1056.9	1113.1	1169.3	1183.3	1356.8	1588.1	1703.8	1907.3	2314.3	2619.5	2665.2
132.5°	1091.9	1148.1	1204.3	1218.3	1377.6	1589.8	1695.9	1878.0	2242.4	2515.6	2556.5
135°	1143.8	1195.0	1246.2	1259.0	1400.1	1588.3	1682.3	1834.9	2140.1	2368.9	2404.1
137.5°	1196.9	1247.6	1298.2	1310.9	1434.0	1598.1	1680.2	1809.1	2067.0	2260.5	2289.3
140°	1240.9	1287.6	1334.2	1345.9	1454.7	1599.7	1672.2	1783.6	2006.5	2173.6	2200.5
142.5°	1274.7	1317.9	1361.1	1371.9	1472.0	1605.5	1672.2	1770.0	1965.7	2112.6	2135.7
145°	1326.7	1364.3	1402.0	1411.4	1494.6	1605.5	1660.9	1740.9	1901.0	2021.1	2038.7
147.5°	1378.7	1415.3	1452.0	1461.1	1527.7	1616.5	1660.9	1723.9	1849.8	1944.3	1958.9
150°	1412.5	1445.6	1478.8	1487.0	1544.9	1622.2	1660.9	1714.1	1820.5	1900.3	1912.1
152.5°	1447.5	1472.6	1497.8	1504.0	1556.3	1626.0	1660.9	1706.3	1797.1	1865.3	1874.1
155°	1499.5	1518.0	1536.6	1541.2	1581.1	1634.3	1660.9	1697.0	1769.3	1823.5	1829.4
157.5°	1537.9	1556.0	1574.0	1578.5	1605.9	1642.6	1660.9	1689.0	1745.2	1787.4	1791.6
160°	1563.8	1577.9	1591.9	1595.4	1617.3	1646.3	1660.9	1685.0	1733.2	1769.3	1771.7
162.5°	1589.8	1600.3	1610.9	1613.5	1629.3	1650.4	1660.9	1681.2	1721.9	1752.4	1754.7
165°	1618.0	1627.5	1637.1	1639.4	1646.6	1656.1	1660.9	1675.5	1704.6	1726.4	1728.8
167.5°	1644.0	1648.5	1653.0	1654.2	1660.2	1668.2	1672.2	1681.7	1700.8	1715.1	1716.1
170°	1660.9	1665.4	1669.9	1671.1	1671.5	1671.9	1672.2	1681.7	1700.8	1715.1	1715.1
172.5°	1669.9	1670.9	1671.9	1672.2	1672.2	1672.2	1672.2	1679.7	1694.7	1706.0	1705.1
175°	1682.3	1682.3	1682.3	1682.3	1679.0	1674.5	1672.2	1677.0	1686.5	1693.6	1693.6
177.5°	1682.3	1682.3	1682.3	1682.3	1679.7	1676.2	1674.5	1678.3	1685.8	1691.4	1690.4
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2592.7	2585.6	2592.7	2588.0	2590.4	2583.2	2561.7	2554.5	2561.7	2568.8	2568.8
5°	2623.9	2619.1	2623.9	2623.9	2621.5	2616.7	2592.7	2588.0	2592.7	2595.2	2590.4
7.5°	2633.5	2626.2	2633.5	2628.7	2628.7	2623.9	2600.0	2595.2	2597.5	2604.8	2597.5
10°	2633.5	2626.2	2633.5	2631.0	2628.7	2623.9	2600.0	2590.4	2590.4	2597.5	2590.4
12.5°	2621.5	2616.7	2621.5	2616.7	2616.7	2611.9	2588.0	2578.4	2580.8	2583.2	2573.6
15°	2602.3	2595.2	2602.3	2597.5	2600.0	2592.7	2566.5	2556.9	2556.9	2561.7	2545.0
17.5°	2573.6	2564.0	2573.6	2571.3	2568.8	2564.0	2540.2	2530.6	2528.2	2530.6	2518.6
20°	2540.2	2533.0	2540.2	2537.8	2537.8	2528.2	2504.3	2492.4	2492.4	2492.4	2480.3
22.5°	2487.6	2480.3	2487.6	2492.4	2492.4	2489.9	2468.4	2451.6	2446.8	2446.8	2432.5
25°	2427.7	2420.6	2427.7	2427.7	2425.4	2427.7	2420.6	2411.0	2403.8	2396.7	2382.3
27.5°	2370.3	2365.5	2370.3	2365.5	2370.3	2363.2	2360.8	2358.4	2348.8	2341.7	2322.5
30°	2313.0	2308.2	2313.0	2308.2	2303.4	2298.6	2286.6	2281.8	2291.4	2286.6	2255.6
32.5°	2241.2	2236.4	2241.2	2241.2	2236.4	2236.4	2217.3	2210.0	2212.5	2226.8	2198.1
35°	2167.0	2159.9	2167.0	2164.6	2167.0	2159.9	2147.9	2145.5	2135.9	2152.7	2131.1
37.5°	2081.0	2073.7	2081.0	2081.0	2081.0	2085.7	2076.2	2068.9	2054.6	2076.2	2059.4
40°	1992.4	1982.8	1992.4	1990.0	1992.4	1997.2	1992.4	1987.6	1973.3	1990.0	1975.7
42.5°	1892.0	1889.6	1892.0	1894.3	1894.3	1903.9	1911.1	1901.6	1896.8	1884.8	1894.3
45°	1784.3	1779.5	1784.3	1789.1	1791.5	1796.3	1817.8	1817.8	1810.7	1791.5	1805.9
47.5°	1669.5	1657.5	1669.5	1683.9	1683.9	1691.0	1712.6	1729.3	1717.4	1693.5	1700.6
50°	1547.6	1549.9	1547.6	1557.1	1557.1	1583.4	1600.1	1616.9	1628.8	1600.1	1566.7
52.5°	1428.0	1425.5	1428.0	1435.1	1444.7	1456.7	1485.4	1502.1	1521.2	1504.5	1451.9
55°	1308.3	1313.1	1308.3	1310.8	1315.6	1322.7	1365.8	1382.5	1418.4	1396.8	1341.8
57.5°	1188.7	1181.6	1188.7	1193.5	1195.9	1203.1	1239.0	1270.1	1291.6	1294.0	1227.0
60°	1050.0	1040.5	1050.0	1071.5	1076.3	1081.1	1114.6	1143.3	1162.4	1169.6	1100.2
62.5°	928.1	911.3	928.1	942.4	952.0	963.9	987.8	1030.9	1047.6	1050.0	952.0
65°	798.9	791.7	798.9	827.6	829.9	844.3	870.7	901.7	937.6	932.9	791.7
67.5°	681.7	681.7	681.7	700.8	715.2	722.3	755.8	770.2	815.6	820.4	660.1
70°	574.1	571.7	574.1	588.4	597.9	614.7	645.8	662.6	698.4	710.4	535.8
72.5°	471.2	468.8	471.2	483.2	492.7	507.1	533.4	552.5	583.6	597.9	416.2
75°	380.3	375.6	380.3	389.9	387.5	406.6	428.1	447.2	476.0	485.5	308.6
77.5°	291.8	291.8	291.8	301.4	301.4	320.5	330.1	354.0	370.8	385.1	227.2
80°	217.7	215.2	217.7	220.0	220.0	229.6	246.4	263.1	277.4	277.4	155.5
82.5°	153.1	148.3	153.1	153.1	153.1	157.9	167.5	172.3	181.8	189.0	98.0
85°	95.7	95.7	95.7	98.0	95.7	100.5	102.8	107.6	107.6	102.8	59.8
87.5°	62.2	59.8	62.2	59.8	59.8	57.4	57.4	57.4	55.0	52.6	33.5
90°	42.9	42.9	42.9	42.9	42.9	57.2	76.3	85.8	73.8	49.7	31.6
92.5°	171.9	137.8	171.9	206.0	214.5	304.1	423.5	483.3	424.3	306.4	218.0
95°	599.0	495.7	599.0	702.4	728.3	956.4	1260.4	1412.5	1192.9	753.8	424.5
97.5°	1435.3	1238.6	1435.3	1632.1	1681.2	1825.4	2017.6	2113.7	1747.7	1015.5	466.3
100°	2068.0	1833.7	2068.0	2302.4	2360.9	2350.4	2336.4	2329.3	1923.1	1110.7	501.4
102.5°	2690.4	2489.7	2690.4	2891.2	2941.3	2757.7	2512.8	2390.3	1978.3	1154.4	536.3
105°	3484.0	3376.1	3484.0	3591.9	3618.8	3207.1	2658.1	2383.6	1984.6	1186.7	588.3
107.5°	4003.7	4029.8	4003.7	3977.6	3971.1	3396.8	2630.9	2248.1	1896.3	1192.7	665.0
110°	4201.9	4314.4	4201.9	4089.5	4061.5	3419.3	2563.2	2135.2	1818.0	1183.7	707.9





TEST NUMBER: P936067

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4219.6	4392.2	4219.6	4047.0	4003.8	3346.7	2470.5	2032.4	1749.6	1184.0	759.9
115°	4107.7	4347.0	4107.7	3868.3	3808.5	3175.4	2331.3	1909.3	1671.2	1195.0	837.8
117.5°	3870.5	4136.0	3870.5	3605.0	3538.6	2967.3	2205.5	1824.6	1622.1	1217.2	913.5
120°	3679.3	3937.2	3679.3	3421.3	3356.9	2834.9	2138.8	1790.8	1605.6	1235.3	957.5
122.5°	3493.1	3747.5	3493.1	3238.7	3175.0	2705.0	2078.2	1764.8	1597.0	1261.3	1009.4
125°	3227.5	3461.9	3227.5	2993.1	2934.5	2535.2	2002.8	1736.6	1589.7	1296.2	1076.1
127.5°	2988.7	3186.3	2988.7	2790.9	2741.5	2398.6	1941.4	1712.8	1585.7	1331.2	1140.4
130°	2847.9	3030.6	2847.9	2665.2	2619.5	2314.3	1907.3	1703.8	1588.1	1356.8	1183.3
132.5°	2720.1	2883.8	2720.1	2556.5	2515.6	2242.4	1878.0	1695.9	1589.8	1377.6	1218.3
135°	2545.1	2686.2	2545.1	2404.1	2368.9	2140.1	1834.9	1682.3	1588.3	1400.1	1259.0
137.5°	2404.7	2520.1	2404.7	2289.3	2260.5	2067.0	1809.1	1680.2	1598.1	1434.0	1310.9
140°	2308.4	2416.3	2308.4	2200.5	2173.6	2006.5	1783.6	1672.2	1599.7	1454.7	1345.9
142.5°	2228.6	2321.5	2228.6	2135.7	2112.6	1965.7	1770.0	1672.2	1605.5	1472.0	1371.9
145°	2108.9	2179.2	2108.9	2038.7	2021.1	1901.0	1740.9	1660.9	1605.5	1494.6	1411.4
147.5°	2017.1	2075.3	2017.1	1958.9	1944.3	1849.8	1723.9	1660.9	1616.5	1527.7	1461.1
150°	1959.3	2006.5	1959.3	1912.1	1900.3	1820.5	1714.1	1660.9	1622.2	1544.9	1487.0
152.5°	1909.8	1945.5	1909.8	1874.1	1865.3	1797.1	1706.3	1660.9	1626.0	1556.3	1504.0
155°	1853.0	1876.6	1853.0	1829.4	1823.5	1769.3	1697.0	1660.9	1634.3	1581.1	1541.2
157.5°	1808.1	1824.6	1808.1	1791.6	1787.4	1745.2	1689.0	1660.9	1642.6	1605.9	1578.5
160°	1781.3	1790.8	1781.3	1771.7	1769.3	1733.2	1685.0	1660.9	1646.3	1617.3	1595.4
162.5°	1763.6	1772.7	1763.6	1754.7	1752.4	1721.9	1681.2	1660.9	1650.4	1629.3	1613.5
165°	1738.4	1747.9	1738.4	1728.8	1726.4	1704.6	1675.5	1660.9	1656.1	1646.6	1639.4
167.5°	1720.2	1724.2	1720.2	1716.1	1715.1	1700.8	1681.7	1672.2	1668.2	1660.2	1654.2
170°	1715.1	1715.1	1715.1	1715.1	1715.1	1700.8	1681.7	1672.2	1671.9	1671.5	1671.1
172.5°	1701.7	1698.2	1701.7	1705.1	1706.0	1694.7	1679.7	1672.2	1672.2	1672.2	1672.2
175°	1693.6	1693.6	1693.6	1693.6	1693.6	1686.5	1677.0	1672.2	1674.5	1679.0	1682.3
177.5°	1686.3	1682.3	1686.3	1690.4	1691.4	1685.8	1678.3	1674.5	1676.2	1679.7	1682.3
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936067

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2564.0	2549.7	2549.7	2525.9	2516.3	2509.1	2497.1	2461.2	2451.6	2442.1	2456.4
5°	2585.6	2559.3	2540.2	2497.1	2461.2	2446.8	2401.4	2315.3	2257.9	2214.8	2190.9
7.5°	2590.4	2556.9	2521.1	2454.1	2367.9	2329.7	2190.9	2033.1	1990.0	1951.8	1927.8
10°	2585.6	2547.3	2497.1	2396.7	2193.3	2126.4	1987.6	1884.8	1858.5	1851.3	1858.5
12.5°	2568.8	2533.0	2463.6	2296.2	2011.5	1966.1	1884.8	1825.0	1820.2	1832.1	1896.8
15°	2540.2	2506.7	2425.4	2162.2	1911.1	1877.6	1820.2	1798.6	1825.0	1908.7	2102.4
17.5°	2511.5	2473.2	2372.7	2030.7	1834.6	1810.7	1770.0	1813.0	1961.3	2073.7	2138.4
20°	2473.2	2427.7	2313.0	1935.1	1779.5	1758.0	1738.9	1932.6	2045.0	2085.7	2121.6
22.5°	2427.7	2379.9	2231.6	1868.1	1722.2	1705.4	1717.4	1999.6	2045.0	2073.7	2104.9
25°	2367.9	2327.3	2135.9	1815.4	1676.7	1657.5	1703.0	1992.4	2018.7	2025.9	2088.1
27.5°	2313.0	2260.3	2035.4	1767.6	1621.7	1614.5	1715.0	1961.3	1980.5	1987.6	2054.6
30°	2246.0	2167.0	1923.0	1717.4	1564.3	1561.9	1717.4	1923.0	1918.3	1937.4	2004.4
32.5°	2176.6	2028.3	1796.3	1655.2	1509.3	1506.9	1700.6	1865.6	1860.8	1887.2	1937.4
35°	2112.0	1920.7	1624.0	1583.4	1439.9	1442.3	1660.0	1798.6	1801.1	1825.0	1856.1
37.5°	2045.0	1827.3	1435.1	1504.5	1372.9	1372.9	1604.9	1736.5	1731.8	1738.9	1781.9
40°	1966.1	1681.5	1267.7	1401.6	1310.8	1303.5	1538.0	1669.5	1652.7	1650.4	1710.2
42.5°	1882.4	1521.2	1143.3	1265.3	1239.0	1229.4	1456.7	1588.2	1557.1	1564.3	1640.8
45°	1791.5	1478.1	1047.6	1069.2	1164.9	1157.7	1368.2	1494.9	1473.4	1492.5	1571.5
47.5°	1700.6	1392.0	1016.6	887.4	1085.9	1083.5	1270.1	1404.0	1392.0	1411.2	1494.9
50°	1576.2	1296.4	1014.1	760.6	997.4	1007.0	1152.9	1315.6	1315.6	1332.3	1420.7
52.5°	1415.9	1179.2	920.9	688.8	894.6	923.3	1050.0	1239.0	1243.8	1260.5	1339.5
55°	1270.1	1057.2	853.9	633.9	772.6	834.7	949.6	1160.1	1169.6	1186.4	1258.1
57.5°	1136.2	880.2	839.5	569.3	660.1	720.0	861.1	1083.5	1088.3	1102.7	1172.0
60°	992.6	636.2	770.2	499.9	562.1	607.5	779.7	992.6	1009.3	1018.9	1078.8
62.5°	829.9	461.6	698.4	452.0	514.2	523.8	712.8	906.5	928.1	935.2	971.1
65°	590.8	387.5	593.2	411.4	464.0	466.4	641.0	818.0	837.2	849.1	875.4
67.5°	399.4	315.7	452.0	373.1	425.8	428.1	571.7	715.2	741.5	751.0	767.8
70°	277.4	210.4	334.8	332.5	382.7	387.5	497.5	621.8	645.8	653.0	662.6
72.5°	203.3	169.8	277.4	299.0	337.3	342.1	421.0	516.7	540.6	547.7	552.5
75°	155.5	179.4	224.8	260.7	287.0	289.4	344.4	421.0	437.7	442.5	444.9
77.5°	124.4	167.5	165.0	210.4	234.4	229.6	270.3	325.3	339.6	339.6	339.6
80°	93.3	131.5	124.4	150.7	172.3	167.5	193.7	232.0	236.8	241.6	239.1
82.5°	69.3	83.7	83.7	95.7	114.8	110.1	129.2	150.7	150.7	150.7	155.5
85°	43.1	47.8	38.3	50.2	64.5	62.2	71.8	81.3	83.7	83.7	78.9
87.5°	26.3	21.5	11.9	19.1	28.7	28.7	33.5	35.8	33.5	33.5	33.5
90°	29.3	20.4	11.3	20.4	29.3	31.6	49.7	73.8	85.8	76.3	57.2
92.5°	198.8	121.9	45.2	121.9	198.8	218.0	306.4	424.3	483.3	423.5	304.1
95°	389.4	248.9	108.4	248.9	389.4	424.5	753.8	1192.9	1412.5	1260.4	956.4
97.5°	435.4	311.4	187.5	311.4	435.4	466.3	1015.5	1747.7	2113.7	2017.6	1825.4
100°	473.2	360.8	248.4	360.8	473.2	501.4	1110.7	1923.1	2329.3	2336.4	2350.4
102.5°	510.1	405.2	300.3	405.2	510.1	536.3	1154.4	1978.3	2390.3	2512.8	2757.7
105°	566.1	477.2	388.4	477.2	566.1	588.3	1186.7	1984.6	2383.6	2658.1	3207.1
107.5°	644.3	561.6	478.7	561.6	644.3	665.0	1192.7	1896.3	2248.1	2630.9	3396.8
110°	689.3	614.5	539.7	614.5	689.3	707.9	1183.7	1818.0	2135.2	2563.2	3419.3



TEST NUMBER: P936067

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	742.1	670.8	599.6	670.8	742.1	759.9	1184.0	1749.6	2032.4	2470.5	3346.7
115°	821.3	755.6	689.9	755.6	821.3	837.8	1195.0	1671.2	1909.3	2331.3	3175.4
117.5°	898.6	838.8	779.1	838.8	898.6	913.5	1217.2	1622.1	1824.6	2205.5	2967.3
120°	943.4	887.2	831.0	887.2	943.4	957.5	1235.3	1605.6	1790.8	2138.8	2834.9
122.5°	995.2	938.6	881.8	938.6	995.2	1009.4	1261.3	1597.0	1764.8	2078.2	2705.0
125°	1063.1	1011.4	959.7	1011.4	1063.1	1076.1	1296.2	1589.7	1736.6	2002.8	2535.2
127.5°	1127.4	1075.2	1023.0	1075.2	1127.4	1140.4	1331.2	1585.7	1712.8	1941.4	2398.6
130°	1169.3	1113.1	1056.9	1113.1	1169.3	1183.3	1356.8	1588.1	1703.8	1907.3	2314.3
132.5°	1204.3	1148.1	1091.9	1148.1	1204.3	1218.3	1377.6	1589.8	1695.9	1878.0	2242.4
135°	1246.2	1195.0	1143.8	1195.0	1246.2	1259.0	1400.1	1588.3	1682.3	1834.9	2140.1
137.5°	1298.2	1247.6	1196.9	1247.6	1298.2	1310.9	1434.0	1598.1	1680.2	1809.1	2067.0
140°	1334.2	1287.6	1240.9	1287.6	1334.2	1345.9	1454.7	1599.7	1672.2	1783.6	2006.5
142.5°	1361.1	1317.9	1274.7	1317.9	1361.1	1371.9	1472.0	1605.5	1672.2	1770.0	1965.7
145°	1402.0	1364.3	1326.7	1364.3	1402.0	1411.4	1494.6	1605.5	1660.9	1740.9	1901.0
147.5°	1452.0	1415.3	1378.7	1415.3	1452.0	1461.1	1527.7	1616.5	1660.9	1723.9	1849.8
150°	1478.8	1445.6	1412.5	1445.6	1478.8	1487.0	1544.9	1622.2	1660.9	1714.1	1820.5
152.5°	1497.8	1472.6	1447.5	1472.6	1497.8	1504.0	1556.3	1626.0	1660.9	1706.3	1797.1
155°	1536.6	1518.0	1499.5	1518.0	1536.6	1541.2	1581.1	1634.3	1660.9	1697.0	1769.3
157.5°	1574.0	1556.0	1537.9	1556.0	1574.0	1578.5	1605.9	1642.6	1660.9	1689.0	1745.2
160°	1591.9	1577.9	1563.8	1577.9	1591.9	1595.4	1617.3	1646.3	1660.9	1685.0	1733.2
162.5°	1610.9	1600.3	1589.8	1600.3	1610.9	1613.5	1629.3	1650.4	1660.9	1681.2	1721.9
165°	1637.1	1627.5	1618.0	1627.5	1637.1	1639.4	1646.6	1656.1	1660.9	1675.5	1704.6
167.5°	1653.0	1648.5	1644.0	1648.5	1653.0	1654.2	1660.2	1668.2	1672.2	1681.7	1700.8
170°	1669.9	1665.4	1660.9	1665.4	1669.9	1671.1	1671.5	1671.9	1672.2	1681.7	1700.8
172.5°	1671.9	1670.9	1669.9	1670.9	1671.9	1672.2	1672.2	1672.2	1672.2	1679.7	1694.7
175°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1679.0	1674.5	1672.2	1677.0	1686.5
177.5°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1679.7	1676.2	1674.5	1678.3	1685.8
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936067

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2439.7	2432.5	2442.1	2415.8	2442.1	2432.5	2439.7	2456.4	2442.1	2451.6	2461.2
5°	2140.7	2128.8	2090.5	2059.4	2090.5	2128.8	2140.7	2190.9	2214.8	2257.9	2315.3
7.5°	1913.5	1903.9	1894.3	1875.2	1894.3	1903.9	1913.5	1927.8	1951.8	1990.0	2033.1
10°	1863.3	1865.6	1880.0	1877.6	1880.0	1865.6	1863.3	1858.5	1851.3	1858.5	1884.8
12.5°	1992.4	2014.0	2092.9	2088.1	2092.9	2014.0	1992.4	1896.8	1832.1	1820.2	1825.0
15°	2140.7	2147.9	2164.6	2167.0	2164.6	2147.9	2140.7	2102.4	1908.7	1825.0	1798.6
17.5°	2155.1	2157.5	2169.4	2169.4	2169.4	2157.5	2155.1	2138.4	2073.7	1961.3	1813.0
20°	2143.1	2147.9	2171.8	2176.6	2171.8	2147.9	2143.1	2121.6	2085.7	2045.0	1932.6
22.5°	2138.4	2147.9	2167.0	2164.6	2167.0	2147.9	2138.4	2104.9	2073.7	2045.0	1999.6
25°	2114.4	2114.4	2116.8	2119.2	2116.8	2114.4	2114.4	2088.1	2025.9	2018.7	1992.4
27.5°	2064.2	2068.9	2083.3	2081.0	2083.3	2068.9	2064.2	2054.6	1987.6	1980.5	1961.3
30°	2018.7	2014.0	2001.9	1992.4	2001.9	2014.0	2018.7	2004.4	1937.4	1918.3	1923.0
32.5°	1942.2	1930.3	1918.3	1911.1	1918.3	1930.3	1942.2	1937.4	1887.2	1860.8	1865.6
35°	1851.3	1853.7	1851.3	1844.1	1851.3	1853.7	1851.3	1856.1	1825.0	1801.1	1798.6
37.5°	1786.7	1791.5	1789.1	1779.5	1789.1	1791.5	1786.7	1781.9	1738.9	1731.8	1736.5
40°	1719.7	1722.2	1719.7	1712.6	1719.7	1722.2	1719.7	1710.2	1650.4	1652.7	1669.5
42.5°	1655.2	1652.7	1645.6	1640.8	1645.6	1652.7	1655.2	1640.8	1564.3	1557.1	1588.2
45°	1581.0	1583.4	1569.1	1561.9	1569.1	1583.4	1581.0	1571.5	1492.5	1473.4	1494.9
47.5°	1506.9	1506.9	1494.9	1487.7	1494.9	1506.9	1506.9	1494.9	1411.2	1392.0	1404.0
50°	1428.0	1425.5	1408.8	1406.4	1408.8	1425.5	1428.0	1420.7	1332.3	1315.6	1315.6
52.5°	1337.0	1337.0	1339.5	1344.3	1339.5	1337.0	1337.0	1339.5	1260.5	1243.8	1239.0
55°	1258.1	1260.5	1277.3	1282.1	1277.3	1260.5	1258.1	1258.1	1186.4	1169.6	1160.1
57.5°	1176.8	1176.8	1188.7	1188.7	1188.7	1176.8	1176.8	1172.0	1102.7	1088.3	1083.5
60°	1083.5	1088.3	1097.9	1095.5	1097.9	1088.3	1083.5	1078.8	1018.9	1009.3	992.6
62.5°	985.4	990.2	992.6	987.8	992.6	990.2	985.4	971.1	935.2	928.1	906.5
65°	882.6	887.4	889.8	885.0	889.8	887.4	882.6	875.4	849.1	837.2	818.0
67.5°	777.4	775.0	772.6	782.1	772.6	775.0	777.4	767.8	751.0	741.5	715.2
70°	669.7	669.7	667.3	672.1	667.3	669.7	669.7	662.6	653.0	645.8	621.8
72.5°	555.0	552.5	562.1	555.0	562.1	552.5	555.0	552.5	547.7	540.6	516.7
75°	442.5	447.2	442.5	449.7	442.5	447.2	442.5	444.9	442.5	437.7	421.0
77.5°	337.3	342.1	337.3	337.3	337.3	342.1	337.3	339.6	339.6	339.6	325.3
80°	239.1	236.8	236.8	234.4	236.8	236.8	239.1	239.1	241.6	236.8	232.0
82.5°	153.1	150.7	150.7	155.5	150.7	150.7	153.1	155.5	150.7	150.7	150.7
85°	83.7	86.1	81.3	81.3	81.3	86.1	83.7	78.9	83.7	83.7	81.3
87.5°	31.1	28.7	28.7	28.7	28.7	28.7	31.1	33.5	33.5	33.5	35.8
90°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	57.2	76.3	85.8	73.8
92.5°	214.5	206.0	171.9	137.8	171.9	206.0	214.5	304.1	423.5	483.3	424.3
95°	728.3	702.4	599.0	495.7	599.0	702.4	728.3	956.4	1260.4	1412.5	1192.9
97.5°	1681.2	1632.1	1435.3	1238.6	1435.3	1632.1	1681.2	1825.4	2017.6	2113.7	1747.7
100°	2360.9	2302.4	2068.0	1833.7	2068.0	2302.4	2360.9	2350.4	2336.4	2329.3	1923.1
102.5°	2941.3	2891.2	2690.4	2489.7	2690.4	2891.2	2941.3	2757.7	2512.8	2390.3	1978.3
105°	3618.8	3591.9	3484.0	3376.1	3484.0	3591.9	3618.8	3207.1	2658.1	2383.6	1984.6
107.5°	3971.1	3977.6	4003.7	4029.8	4003.7	3977.6	3971.1	3396.8	2630.9	2248.1	1896.3
110°	4061.5	4089.5	4201.9	4314.4	4201.9	4089.5	4061.5	3419.3	2563.2	2135.2	1818.0



TEST NUMBER: P936067

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4003.8	4047.0	4219.6	4392.2	4219.6	4047.0	4003.8	3346.7	2470.5	2032.4	1749.6
115°	3808.5	3868.3	4107.7	4347.0	4107.7	3868.3	3808.5	3175.4	2331.3	1909.3	1671.2
117.5°	3538.6	3605.0	3870.5	4136.0	3870.5	3605.0	3538.6	2967.3	2205.5	1824.6	1622.1
120°	3356.9	3421.3	3679.3	3937.2	3679.3	3421.3	3356.9	2834.9	2138.8	1790.8	1605.6
122.5°	3175.0	3238.7	3493.1	3747.5	3493.1	3238.7	3175.0	2705.0	2078.2	1764.8	1597.0
125°	2934.5	2993.1	3227.5	3461.9	3227.5	2993.1	2934.5	2535.2	2002.8	1736.6	1589.7
127.5°	2741.5	2790.9	2988.7	3186.3	2988.7	2790.9	2741.5	2398.6	1941.4	1712.8	1585.7
130°	2619.5	2665.2	2847.9	3030.6	2847.9	2665.2	2619.5	2314.3	1907.3	1703.8	1588.1
132.5°	2515.6	2556.5	2720.1	2883.8	2720.1	2556.5	2515.6	2242.4	1878.0	1695.9	1589.8
135°	2368.9	2404.1	2545.1	2686.2	2545.1	2404.1	2368.9	2140.1	1834.9	1682.3	1588.3
137.5°	2260.5	2289.3	2404.7	2520.1	2404.7	2289.3	2260.5	2067.0	1809.1	1680.2	1598.1
140°	2173.6	2200.5	2308.4	2416.3	2308.4	2200.5	2173.6	2006.5	1783.6	1672.2	1599.7
142.5°	2112.6	2135.7	2228.6	2321.5	2228.6	2135.7	2112.6	1965.7	1770.0	1672.2	1605.5
145°	2021.1	2038.7	2108.9	2179.2	2108.9	2038.7	2021.1	1901.0	1740.9	1660.9	1605.5
147.5°	1944.3	1958.9	2017.1	2075.3	2017.1	1958.9	1944.3	1849.8	1723.9	1660.9	1616.5
150°	1900.3	1912.1	1959.3	2006.5	1959.3	1912.1	1900.3	1820.5	1714.1	1660.9	1622.2
152.5°	1865.3	1874.1	1909.8	1945.5	1909.8	1874.1	1865.3	1797.1	1706.3	1660.9	1626.0
155°	1823.5	1829.4	1853.0	1876.6	1853.0	1829.4	1823.5	1769.3	1697.0	1660.9	1634.3
157.5°	1787.4	1791.6	1808.1	1824.6	1808.1	1791.6	1787.4	1745.2	1689.0	1660.9	1642.6
160°	1769.3	1771.7	1781.3	1790.8	1781.3	1771.7	1769.3	1733.2	1685.0	1660.9	1646.3
162.5°	1752.4	1754.7	1763.6	1772.7	1763.6	1754.7	1752.4	1721.9	1681.2	1660.9	1650.4
165°	1726.4	1728.8	1738.4	1747.9	1738.4	1728.8	1726.4	1704.6	1675.5	1660.9	1656.1
167.5°	1715.1	1716.1	1720.2	1724.2	1720.2	1716.1	1715.1	1700.8	1681.7	1672.2	1668.2
170°	1715.1	1715.1	1715.1	1715.1	1715.1	1715.1	1715.1	1700.8	1681.7	1672.2	1671.9
172.5°	1706.0	1705.1	1701.7	1698.2	1701.7	1705.1	1706.0	1694.7	1679.7	1672.2	1672.2
175°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1686.5	1677.0	1672.2	1674.5
177.5°	1691.4	1690.4	1686.3	1682.3	1686.3	1690.4	1691.4	1685.8	1678.3	1674.5	1676.2
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936067

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2497.1	2509.1	2516.3	2525.9	2549.7
5°	2401.4	2446.8	2461.2	2497.1	2540.2
7.5°	2190.9	2329.7	2367.9	2454.1	2521.1
10°	1987.6	2126.4	2193.3	2396.7	2497.1
12.5°	1884.8	1966.1	2011.5	2296.2	2463.6
15°	1820.2	1877.6	1911.1	2162.2	2425.4
17.5°	1770.0	1810.7	1834.6	2030.7	2372.7
20°	1738.9	1758.0	1779.5	1935.1	2313.0
22.5°	1717.4	1705.4	1722.2	1868.1	2231.6
25°	1703.0	1657.5	1676.7	1815.4	2135.9
27.5°	1715.0	1614.5	1621.7	1767.6	2035.4
30°	1717.4	1561.9	1564.3	1717.4	1923.0
32.5°	1700.6	1506.9	1509.3	1655.2	1796.3
35°	1660.0	1442.3	1439.9	1583.4	1624.0
37.5°	1604.9	1372.9	1372.9	1504.5	1435.1
40°	1538.0	1303.5	1310.8	1401.6	1267.7
42.5°	1456.7	1229.4	1239.0	1265.3	1143.3
45°	1368.2	1157.7	1164.9	1069.2	1047.6
47.5°	1270.1	1083.5	1085.9	887.4	1016.6
50°	1152.9	1007.0	997.4	760.6	1014.1
52.5°	1050.0	923.3	894.6	688.8	920.9
55°	949.6	834.7	772.6	633.9	853.9
57.5°	861.1	720.0	660.1	569.3	839.5
60°	779.7	607.5	562.1	499.9	770.2
62.5°	712.8	523.8	514.2	452.0	698.4
65°	641.0	466.4	464.0	411.4	593.2
67.5°	571.7	428.1	425.8	373.1	452.0
70°	497.5	387.5	382.7	332.5	334.8
72.5°	421.0	342.1	337.3	299.0	277.4
75°	344.4	289.4	287.0	260.7	224.8
77.5°	270.3	229.6	234.4	210.4	165.0
80°	193.7	167.5	172.3	150.7	124.4
82.5°	129.2	110.1	114.8	95.7	83.7
85°	71.8	62.2	64.5	50.2	38.3
87.5°	33.5	28.7	28.7	19.1	11.9
90°	49.7	31.6	29.3	20.4	11.3
92.5°	306.4	218.0	198.8	121.9	45.2
95°	753.8	424.5	389.4	248.9	108.4
97.5°	1015.5	466.3	435.4	311.4	187.5
100°	1110.7	501.4	473.2	360.8	248.4
102.5°	1154.4	536.3	510.1	405.2	300.3
105°	1186.7	588.3	566.1	477.2	388.4
107.5°	1192.7	665.0	644.3	561.6	478.7
110°	1183.7	707.9	689.3	614.5	539.7



TEST NUMBER: P936067

CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1184.0	759.9	742.1	670.8	599.6
115°	1195.0	837.8	821.3	755.6	689.9
117.5°	1217.2	913.5	898.6	838.8	779.1
120°	1235.3	957.5	943.4	887.2	831.0
122.5°	1261.3	1009.4	995.2	938.6	881.8
125°	1296.2	1076.1	1063.1	1011.4	959.7
127.5°	1331.2	1140.4	1127.4	1075.2	1023.0
130°	1356.8	1183.3	1169.3	1113.1	1056.9
132.5°	1377.6	1218.3	1204.3	1148.1	1091.9
135°	1400.1	1259.0	1246.2	1195.0	1143.8
137.5°	1434.0	1310.9	1298.2	1247.6	1196.9
140°	1454.7	1345.9	1334.2	1287.6	1240.9
142.5°	1472.0	1371.9	1361.1	1317.9	1274.7
145°	1494.6	1411.4	1402.0	1364.3	1326.7
147.5°	1527.7	1461.1	1452.0	1415.3	1378.7
150°	1544.9	1487.0	1478.8	1445.6	1412.5
152.5°	1556.3	1504.0	1497.8	1472.6	1447.5
155°	1581.1	1541.2	1536.6	1518.0	1499.5
157.5°	1605.9	1578.5	1574.0	1556.0	1537.9
160°	1617.3	1595.4	1591.9	1577.9	1563.8
162.5°	1629.3	1613.5	1610.9	1600.3	1589.8
165°	1646.6	1639.4	1637.1	1627.5	1618.0
167.5°	1660.2	1654.2	1653.0	1648.5	1644.0
170°	1671.5	1671.1	1669.9	1665.4	1660.9
172.5°	1672.2	1672.2	1671.9	1670.9	1669.9
175°	1679.0	1682.3	1682.3	1682.3	1682.3
177.5°	1679.7	1682.3	1682.3	1682.3	1682.3
180°	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936067  
 CATALOG NUMBER: SQ4-FA-150U-100D-93050-1D-UNV-STD-W-8-4000K

**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	12.09	12.85	13.15	13.91	15.35	14.93	15.69	15.98	16.75	18.19
	3H	12.56	13.24	13.63	14.31	15.76	16.27	16.95	17.33	18.02	19.47
	4H	12.74	13.39	13.82	14.46	15.92	16.71	17.35	17.79	18.42	19.89
	6H	12.86	13.45	13.95	14.53	16.00	16.99	17.58	18.08	18.66	20.13
	8H	12.86	13.42	13.95	14.51	15.98	17.06	17.63	18.15	18.72	20.19
	12H	12.82	13.36	13.92	14.44	15.94	17.10	17.63	18.19	18.72	20.21
4H	2H	13.11	13.76	14.20	14.83	16.29	15.32	15.97	16.41	17.04	18.50
	3H	14.13	14.67	15.22	15.76	17.24	16.82	17.36	17.91	18.46	19.93
	4H	14.40	14.89	15.50	15.98	17.48	17.35	17.84	18.44	18.93	20.43
	6H	14.52	14.94	15.62	16.05	17.54	17.71	18.13	18.81	19.24	20.73
	8H	14.52	14.92	15.63	16.02	17.53	17.81	18.21	18.92	19.31	20.82
	12H	14.48	14.84	15.61	15.96	17.47	17.87	18.22	18.99	19.34	20.85
8H	4H	14.85	15.24	15.95	16.35	17.85	17.46	17.86	18.57	18.96	20.47
	6H	15.10	15.43	16.23	16.58	18.08	17.90	18.22	19.02	19.37	20.87
	8H	15.15	15.43	16.28	16.56	18.08	18.05	18.33	19.18	19.46	20.99
	12H	15.13	15.38	16.26	16.50	18.06	18.14	18.40	19.28	19.52	21.08
12H	4H	14.85	15.21	15.97	16.32	17.83	17.42	17.78	18.55	18.90	20.41
	6H	15.16	15.45	16.30	16.58	18.10	17.89	18.18	19.03	19.31	20.83
	8H	15.23	15.48	16.36	16.60	18.16	18.05	18.30	19.19	19.43	20.99