

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: P935953

Luminaire Tested: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

**Test Information**

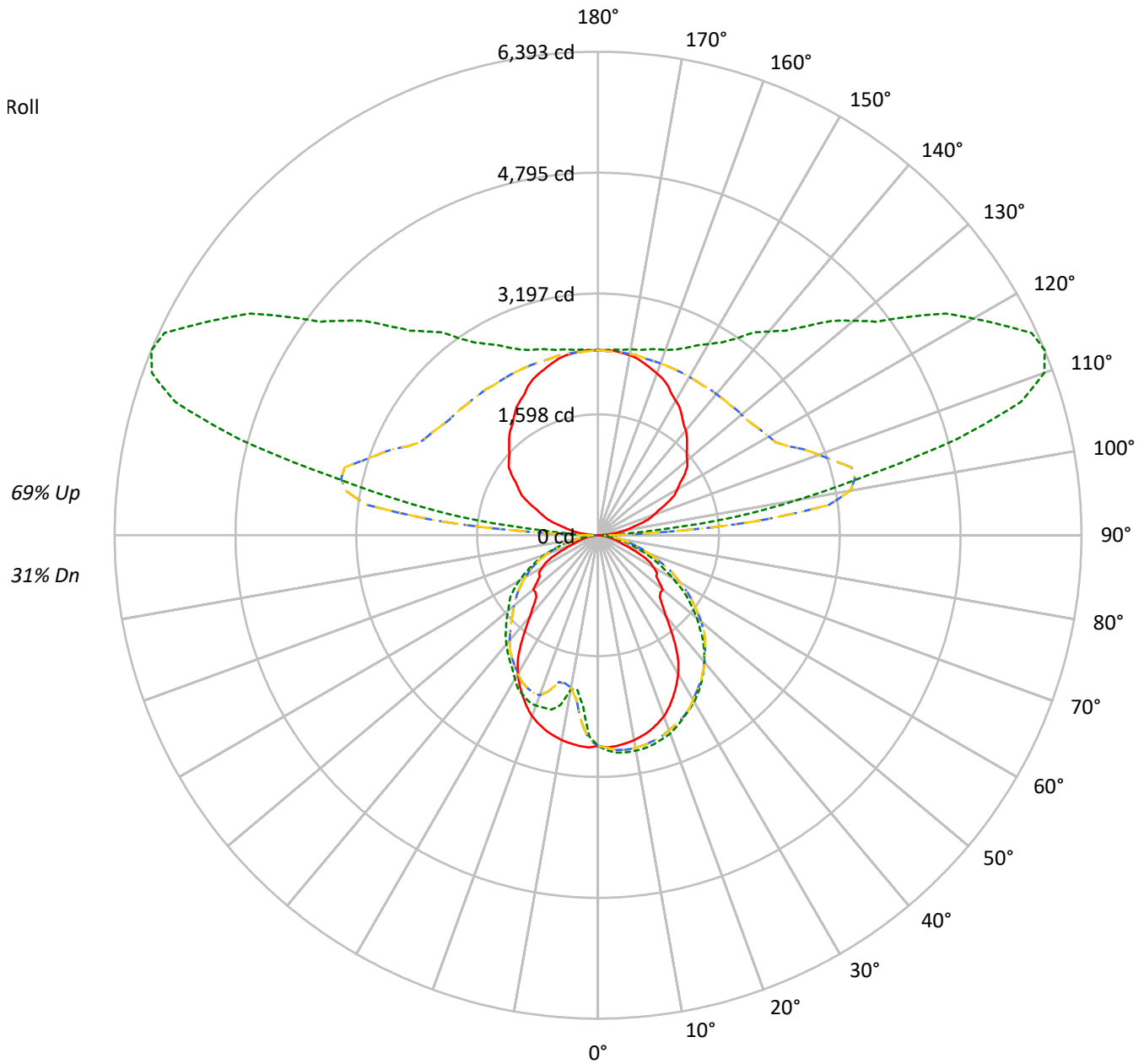
Test Method: LM-79-2019  
Report Number: P935953  
REPORT IS A COMBINATION OF REPORTS P933773 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23104.5 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 190.8  
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	0
RCR																		
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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

	0°	90°	180°	270°
0°	8615	8615	8615	8615
5°	8682	8696	8682	6838
10°	8627	8566	8627	6124
15°	8537	8381	8537	6998
20°	8362	8161	8362	7012
25°	8000	7840	8000	6864
30°	7530	7574	7530	6538
35°	6716	7237	6716	6179
40°	5600	6840	5600	5908
45°	5007	6377	5007	5597
50°	5323	5823	5323	5284
55°	5013	5227	5013	5103
60°	5174	4439	5174	4674
65°	4699	3670	4699	4102
70°	3261	2924	3261	3438
75°	2871	2162	2871	2589
80°	2330	1429	2330	1556
85°	1367	757	1367	644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7668 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.4	1.1
10°-20°	713.8	3.1
20°-30°	1103.4	4.8
30°-40°	1317.2	5.7
40°-50°	1325.0	5.7
50°-60°	1152.9	5.0
60°-70°	817.4	3.5
70°-80°	432.5	1.9
80°-90°	117.0	0.5
90°-100°	1193.6	5.2
100°-110°	3138.1	13.6
110°-120°	3253.8	14.1
120°-130°	2610.0	11.3
130°-140°	2047.9	8.9
140°-150°	1571.8	6.8
150°-160°	1132.0	4.9
160°-170°	692.6	3.0
170°-180°	234.0	1.0
0°-30°	2068.7	9.0
0°-40°	3385.9	14.7
0°-60°	5863.8	25.4
0°-90°	7230.7	31.3
90°-120°	7585.5	32.8
90°-150°	13815.2	59.8
90°-180°	15874.0	68.7
0°-180°	23104.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2785	2785	2785	2785	2785	
5°	2798	2885	2798	2269	2798	265
15°	2672	2859	2672	2387	2672	752
25°	2353	2667	2353	2335	2353	1080
35°	1789	2379	1789	2032	1789	1107
45°	1154	1960	1154	1721	1154	924
55°	941	1447	941	1412	941	864
65°	654	872	654	975	654	625
75°	248	414	248	495	248	260
85°	42	105	42	90	42	57
90°	16	62	16	62	16	15
95°	158	721	158	721	158	175
105°	565	4914	565	4914	565	599
115°	1004	6327	1004	6327	1004	992
125°	1397	5039	1397	5039	1397	1240
135°	1665	3910	1665	3910	1665	1288
145°	1931	3172	1931	3172	1931	1210
155°	2182	2731	2182	2731	2182	1003
165°	2355	2544	2355	2544	2355	665
175°	2449	2465	2449	2465	2449	232
180°	2449	2449	2449	2449	2449	



TEST NUMBER: P935953

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2808.9	2808.9	2824.7	2830.0	2830.0	2822.1	2814.2	2822.1	2845.8	2853.7	2851.1
5°	2798.4	2819.4	2848.4	2853.7	2859.0	2856.3	2851.1	2856.3	2882.7	2887.9	2890.6
7.5°	2777.3	2816.8	2853.7	2861.6	2869.5	2861.6	2859.0	2864.2	2890.6	2895.8	2895.8
10°	2750.9	2806.3	2848.4	2853.7	2861.6	2853.7	2853.7	2864.2	2890.6	2895.8	2898.5
12.5°	2714.0	2790.5	2830.0	2835.2	2845.8	2843.1	2840.5	2851.1	2877.4	2882.7	2882.7
15°	2671.9	2761.5	2798.4	2803.6	2822.1	2816.8	2816.8	2827.3	2856.3	2864.2	2861.6
17.5°	2613.9	2724.6	2766.7	2774.6	2787.8	2785.2	2787.8	2798.4	2824.7	2830.0	2832.6
20°	2548.0	2674.5	2724.6	2732.5	2745.7	2745.7	2745.7	2758.8	2785.2	2795.7	2795.7
22.5°	2458.5	2621.8	2674.5	2679.8	2695.6	2695.6	2700.9	2719.3	2743.0	2745.7	2745.7
25°	2353.1	2563.8	2608.6	2624.5	2640.3	2648.2	2656.1	2666.6	2674.5	2671.9	2674.5
27.5°	2242.3	2490.1	2548.0	2558.6	2579.7	2587.6	2598.1	2600.7	2603.4	2611.3	2606.0
30°	2118.5	2387.3	2474.3	2484.8	2519.1	2524.3	2513.8	2519.1	2532.2	2537.5	2542.8
32.5°	1978.8	2234.4	2397.8	2421.6	2453.2	2437.4	2434.7	2442.6	2463.7	2463.7	2469.0
35°	1789.1	2115.8	2326.7	2347.8	2371.5	2353.1	2363.6	2366.2	2379.4	2387.3	2384.7
37.5°	1580.9	2013.1	2252.8	2268.7	2287.1	2263.4	2279.2	2287.1	2297.6	2292.4	2292.4
40°	1396.5	1852.3	2165.9	2176.4	2192.2	2173.8	2189.6	2194.9	2200.1	2194.9	2192.2
42.5°	1259.5	1675.8	2073.7	2086.8	2076.3	2089.5	2094.7	2105.3	2097.4	2086.8	2086.8
45°	1154.1	1628.4	1973.5	1989.4	1973.5	1994.6	2002.5	2002.5	1978.8	1973.5	1970.9
47.5°	1119.8	1533.5	1873.4	1873.4	1865.5	1891.9	1905.0	1886.6	1862.9	1855.0	1855.0
50°	1117.2	1428.1	1736.4	1725.9	1762.8	1794.4	1781.2	1762.8	1744.3	1715.3	1715.3
52.5°	1014.4	1299.0	1559.9	1599.4	1657.4	1675.8	1654.7	1636.3	1604.7	1591.5	1580.9
55°	940.7	1164.6	1399.1	1478.2	1538.8	1562.5	1523.0	1504.5	1457.1	1449.2	1443.9
57.5°	924.9	969.6	1251.6	1351.7	1425.5	1422.8	1399.1	1364.9	1325.4	1317.5	1314.8
60°	848.4	700.9	1093.5	1212.1	1288.5	1280.6	1259.5	1227.9	1191.0	1185.7	1180.4
62.5°	769.4	508.5	914.3	1048.7	1156.7	1154.1	1135.6	1088.2	1061.9	1048.7	1038.2
65°	653.5	426.9	650.8	872.2	1027.6	1032.9	993.4	959.1	930.1	914.3	911.7
67.5°	498.0	347.8	440.0	727.2	903.8	898.5	848.4	832.6	795.7	787.8	772.0
70°	368.9	231.9	305.6	590.2	782.6	769.4	729.9	711.4	677.2	658.7	648.2
72.5°	305.6	187.1	224.0	458.5	658.7	642.9	608.7	587.6	558.6	542.8	532.3
75°	247.7	197.6	171.3	339.9	534.9	524.3	492.7	471.6	447.9	426.9	429.5
77.5°	181.8	184.4	137.0	250.3	424.2	408.4	390.0	363.6	353.1	332.0	332.0
80°	137.0	144.9	102.8	171.3	305.6	305.6	289.8	271.4	253.0	242.4	242.4
82.5°	92.2	92.2	76.4	108.0	208.2	200.3	189.7	184.4	173.9	168.6	168.6
85°	42.2	52.7	47.4	65.9	113.3	118.6	118.6	113.3	110.7	105.4	108.0
87.5°	13.2	23.7	29.0	36.9	58.0	60.6	63.2	63.2	63.2	65.9	65.9
90°	16.4	29.6	42.8	46.0	72.3	107.3	124.9	111.0	83.3	62.4	62.4
92.5°	65.7	177.4	289.2	317.2	445.9	617.5	703.3	616.4	442.6	312.2	299.9
95°	157.7	362.2	566.8	617.9	1097.3	1736.4	2055.9	1834.6	1392.0	1060.0	1022.4
97.5°	272.8	453.2	633.6	678.8	1478.0	2543.6	3076.4	2936.6	2656.9	2447.0	2375.5
100°	361.5	525.1	688.8	729.7	1616.6	2799.1	3390.3	3400.5	3421.0	3436.4	3351.1
102.5°	437.1	589.8	742.4	780.6	1680.1	2879.4	3479.1	3657.3	4013.7	4281.1	4208.0
105°	565.4	694.6	823.9	856.3	1727.3	2888.6	3469.2	3868.7	4667.8	5267.1	5227.8
107.5°	696.8	817.3	937.8	968.0	1736.0	2760.0	3272.0	3829.3	4943.9	5779.8	5789.3
110°	785.6	894.4	1003.2	1030.4	1722.9	2646.1	3107.7	3730.8	4976.8	5911.3	5952.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	872.7	976.4	1080.1	1106.0	1723.4	2546.5	2958.1	3595.8	4871.1	5827.5	5890.3
115°	1004.2	1099.8	1195.5	1219.4	1739.3	2432.5	2779.0	3393.3	4621.8	5543.2	5630.3
117.5°	1134.0	1220.8	1307.8	1329.5	1771.5	2361.0	2655.7	3210.1	4318.9	5150.4	5247.1
120°	1209.5	1291.4	1373.1	1393.6	1797.9	2336.9	2606.4	3113.0	4126.0	4885.8	4979.7
122.5°	1283.5	1366.0	1448.6	1469.2	1835.7	2324.3	2568.7	3024.8	3937.1	4621.3	4713.8
125°	1396.9	1472.1	1547.4	1566.2	1886.7	2314.0	2527.6	2915.1	3690.0	4271.2	4356.5
127.5°	1488.9	1564.9	1640.8	1659.8	1937.5	2307.9	2493.1	2825.8	3491.2	3990.2	4062.1
130°	1538.3	1620.0	1701.8	1722.3	1974.8	2311.5	2479.9	2776.0	3368.5	3812.7	3879.2
132.5°	1589.2	1671.0	1752.7	1773.2	2004.9	2313.9	2468.4	2733.5	3263.9	3661.5	3721.1
135°	1664.7	1739.2	1813.8	1832.4	2037.8	2311.8	2448.7	2670.7	3114.8	3447.9	3499.2
137.5°	1742.0	1815.8	1889.6	1908.0	2087.1	2325.9	2445.4	2633.1	3008.5	3290.1	3332.1
140°	1806.1	1874.0	1942.0	1959.0	2117.2	2328.3	2433.9	2596.0	2920.4	3163.6	3202.8
142.5°	1855.4	1918.2	1981.0	1996.7	2142.4	2336.7	2433.9	2576.3	2861.2	3074.8	3108.7
145°	1931.0	1985.8	2040.6	2054.3	2175.3	2336.7	2417.4	2533.9	2766.9	2941.7	2967.3
147.5°	2006.6	2059.9	2113.2	2126.5	2223.5	2352.8	2417.4	2509.1	2692.4	2830.0	2851.1
150°	2055.9	2104.1	2152.4	2164.4	2248.7	2361.2	2417.4	2494.9	2649.7	2765.9	2783.0
152.5°	2106.9	2143.4	2179.9	2189.0	2265.1	2366.7	2417.4	2483.6	2615.8	2714.9	2727.9
155°	2182.5	2209.5	2236.5	2243.3	2301.3	2378.7	2417.4	2470.0	2575.3	2654.1	2662.7
157.5°	2238.4	2264.6	2290.9	2297.5	2337.4	2390.7	2417.4	2458.4	2540.1	2601.5	2607.6
160°	2276.1	2296.6	2317.0	2322.1	2353.9	2396.3	2417.4	2452.5	2522.6	2575.2	2578.7
162.5°	2313.9	2329.3	2344.5	2348.4	2371.4	2402.1	2417.4	2447.0	2506.2	2550.6	2553.8
165°	2355.0	2368.9	2382.7	2386.3	2396.6	2410.5	2417.4	2438.6	2480.9	2512.7	2516.2
167.5°	2392.8	2399.4	2405.9	2407.6	2416.4	2428.1	2433.9	2447.7	2475.5	2496.3	2497.8
170°	2417.4	2424.0	2430.6	2432.3	2432.8	2433.5	2433.9	2447.7	2475.5	2496.3	2496.3
172.5°	2430.6	2432.0	2433.5	2433.9	2433.9	2433.9	2433.9	2444.8	2466.8	2483.2	2481.9
175°	2448.7	2448.7	2448.7	2448.7	2443.8	2437.2	2433.9	2440.8	2454.7	2465.1	2465.1
177.5°	2448.7	2448.7	2448.7	2448.7	2444.8	2439.7	2437.2	2442.6	2453.6	2461.8	2460.3
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2856.3	2848.4	2856.3	2851.1	2853.7	2845.8	2822.1	2814.2	2822.1	2830.0	2830.0
5°	2890.6	2885.3	2890.6	2890.6	2887.9	2882.7	2856.3	2851.1	2856.3	2859.0	2853.7
7.5°	2901.1	2893.2	2901.1	2895.8	2895.8	2890.6	2864.2	2859.0	2861.6	2869.5	2861.6
10°	2901.1	2893.2	2901.1	2898.5	2895.8	2890.6	2864.2	2853.7	2853.7	2861.6	2853.7
12.5°	2887.9	2882.7	2887.9	2882.7	2882.7	2877.4	2851.1	2840.5	2843.1	2845.8	2835.2
15°	2866.9	2859.0	2866.9	2861.6	2864.2	2856.3	2827.3	2816.8	2816.8	2822.1	2803.6
17.5°	2835.2	2824.7	2835.2	2832.6	2830.0	2824.7	2798.4	2787.8	2785.2	2787.8	2774.6
20°	2798.4	2790.5	2798.4	2795.7	2795.7	2785.2	2758.8	2745.7	2745.7	2745.7	2732.5
22.5°	2740.4	2732.5	2740.4	2745.7	2745.7	2743.0	2719.3	2700.9	2695.6	2695.6	2679.8
25°	2674.5	2666.6	2674.5	2674.5	2671.9	2674.5	2666.6	2656.1	2648.2	2640.3	2624.5
27.5°	2611.3	2606.0	2611.3	2606.0	2611.3	2603.4	2600.7	2598.1	2587.6	2579.7	2558.6
30°	2548.0	2542.8	2548.0	2542.8	2537.5	2532.2	2519.1	2513.8	2524.3	2519.1	2484.8
32.5°	2469.0	2463.7	2469.0	2469.0	2463.7	2463.7	2442.6	2434.7	2437.4	2453.2	2421.6
35°	2387.3	2379.4	2387.3	2384.7	2387.3	2379.4	2366.2	2363.6	2353.1	2371.5	2347.8
37.5°	2292.4	2284.5	2292.4	2292.4	2292.4	2297.6	2287.1	2279.2	2263.4	2287.1	2268.7
40°	2194.9	2184.3	2194.9	2192.2	2194.9	2200.1	2194.9	2189.6	2173.8	2192.2	2176.4
42.5°	2084.2	2081.6	2084.2	2086.8	2086.8	2097.4	2105.3	2094.7	2089.5	2076.3	2086.8
45°	1965.6	1960.4	1965.6	1970.9	1973.5	1978.8	2002.5	2002.5	1994.6	1973.5	1989.4
47.5°	1839.2	1826.0	1839.2	1855.0	1855.0	1862.9	1886.6	1905.0	1891.9	1865.5	1873.4
50°	1704.8	1707.4	1704.8	1715.3	1715.3	1744.3	1762.8	1781.2	1794.4	1762.8	1725.9
52.5°	1573.0	1570.4	1573.0	1580.9	1591.5	1604.7	1636.3	1654.7	1675.8	1657.4	1599.4
55°	1441.3	1446.6	1441.3	1443.9	1449.2	1457.1	1504.5	1523.0	1562.5	1538.8	1478.2
57.5°	1309.5	1301.6	1309.5	1314.8	1317.5	1325.4	1364.9	1399.1	1422.8	1425.5	1351.7
60°	1156.7	1146.2	1156.7	1180.4	1185.7	1191.0	1227.9	1259.5	1280.6	1288.5	1212.1
62.5°	1022.3	1003.9	1022.3	1038.2	1048.7	1061.9	1088.2	1135.6	1154.1	1156.7	1048.7
65°	880.1	872.2	880.1	911.7	914.3	930.1	959.1	993.4	1032.9	1027.6	872.2
67.5°	750.9	750.9	750.9	772.0	787.8	795.7	832.6	848.4	898.5	903.8	727.2
70°	632.4	629.7	632.4	648.2	658.7	677.2	711.4	729.9	769.4	782.6	590.2
72.5°	519.1	516.4	519.1	532.3	542.8	558.6	587.6	608.7	642.9	658.7	458.5
75°	418.9	413.7	418.9	429.5	426.9	447.9	471.6	492.7	524.3	534.9	339.9
77.5°	321.5	321.5	321.5	332.0	332.0	353.1	363.6	390.0	408.4	424.2	250.3
80°	239.8	237.1	239.8	242.4	242.4	253.0	271.4	289.8	305.6	305.6	171.3
82.5°	168.6	163.4	168.6	168.6	168.6	173.9	184.4	189.7	200.3	208.2	108.0
85°	105.4	105.4	105.4	108.0	105.4	110.7	113.3	118.6	118.6	113.3	65.9
87.5°	68.5	65.9	68.5	65.9	65.9	63.2	63.2	63.2	60.6	58.0	36.9
90°	62.4	62.4	62.4	62.4	62.4	83.3	111.0	124.9	107.3	72.3	46.0
92.5°	250.1	200.5	250.1	299.9	312.2	442.6	616.4	703.3	617.5	445.9	317.2
95°	871.9	721.4	871.9	1022.4	1060.0	1392.0	1834.6	2055.9	1736.4	1097.3	617.9
97.5°	2089.1	1802.8	2089.1	2375.5	2447.0	2656.9	2936.6	3076.4	2543.6	1478.0	678.8
100°	3010.0	2668.9	3010.0	3351.1	3436.4	3421.0	3400.5	3390.3	2799.1	1616.6	729.7
102.5°	3915.9	3623.7	3915.9	4208.0	4281.1	4013.7	3657.3	3479.1	2879.4	1680.1	780.6
105°	5070.9	4913.8	5070.9	5227.8	5267.1	4667.8	3868.7	3469.2	2888.6	1727.3	856.3
107.5°	5827.4	5865.3	5827.4	5789.3	5779.8	4943.9	3829.3	3272.0	2760.0	1736.0	968.0
110°	6115.9	6279.5	6115.9	5952.2	5911.3	4976.8	3730.8	3107.7	2646.1	1722.9	1030.4





TEST NUMBER: P935953

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6141.6	6392.9	6141.6	5890.3	5827.5	4871.1	3595.8	2958.1	2546.5	1723.4	1106.0
115°	5978.7	6327.1	5978.7	5630.3	5543.2	4621.8	3393.3	2779.0	2432.5	1739.3	1219.4
117.5°	5633.4	6019.8	5633.4	5247.1	5150.4	4318.9	3210.1	2655.7	2361.0	1771.5	1329.5
120°	5355.1	5730.6	5355.1	4979.7	4885.8	4126.0	3113.0	2606.4	2336.9	1797.9	1393.6
122.5°	5084.2	5454.5	5084.2	4713.8	4621.3	3937.1	3024.8	2568.7	2324.3	1835.7	1469.2
125°	4697.6	5038.7	4697.6	4356.5	4271.2	3690.0	2915.1	2527.6	2314.0	1886.7	1566.2
127.5°	4350.0	4637.7	4350.0	4062.1	3990.2	3491.2	2825.8	2493.1	2307.9	1937.5	1659.8
130°	4145.1	4410.9	4145.1	3879.2	3812.7	3368.5	2776.0	2479.9	2311.5	1974.8	1722.3
132.5°	3959.1	4197.2	3959.1	3721.1	3661.5	3263.9	2733.5	2468.4	2313.9	2004.9	1773.2
135°	3704.4	3909.7	3704.4	3499.2	3447.9	3114.8	2670.7	2448.7	2311.8	2037.8	1832.4
137.5°	3500.1	3668.0	3500.1	3332.1	3290.1	3008.5	2633.1	2445.4	2325.9	2087.1	1908.0
140°	3359.9	3516.9	3359.9	3202.8	3163.6	2920.4	2596.0	2433.9	2328.3	2117.2	1959.0
142.5°	3243.7	3378.8	3243.7	3108.7	3074.8	2861.2	2576.3	2433.9	2336.7	2142.4	1996.7
145°	3069.6	3171.8	3069.6	2967.3	2941.7	2766.9	2533.9	2417.4	2336.7	2175.3	2054.3
147.5°	2935.9	3020.6	2935.9	2851.1	2830.0	2692.4	2509.1	2417.4	2352.8	2223.5	2126.5
150°	2851.7	2920.4	2851.7	2783.0	2765.9	2649.7	2494.9	2417.4	2361.2	2248.7	2164.4
152.5°	2779.7	2831.6	2779.7	2727.9	2714.9	2615.8	2483.6	2417.4	2366.7	2265.1	2189.0
155°	2697.0	2731.3	2697.0	2662.7	2654.1	2575.3	2470.0	2417.4	2378.7	2301.3	2243.3
157.5°	2631.7	2655.7	2631.7	2607.6	2601.5	2540.1	2458.4	2417.4	2390.7	2337.4	2297.5
160°	2592.6	2606.4	2592.6	2578.7	2575.2	2522.6	2452.5	2417.4	2396.3	2353.9	2322.1
162.5°	2567.0	2580.2	2567.0	2553.8	2550.6	2506.2	2447.0	2417.4	2402.1	2371.4	2348.4
165°	2530.1	2544.0	2530.1	2516.2	2512.7	2480.9	2438.6	2417.4	2410.5	2396.6	2386.3
167.5°	2503.6	2509.5	2503.6	2497.8	2496.3	2475.5	2447.7	2433.9	2428.1	2416.4	2407.6
170°	2496.3	2496.3	2496.3	2496.3	2496.3	2475.5	2447.7	2433.9	2433.5	2432.8	2432.3
172.5°	2476.8	2471.7	2476.8	2481.9	2483.2	2466.8	2444.8	2433.9	2433.9	2433.9	2433.9
175°	2465.1	2465.1	2465.1	2465.1	2465.1	2454.7	2440.8	2433.9	2437.2	2443.8	2448.7
177.5°	2454.5	2448.7	2454.5	2460.3	2461.8	2453.6	2442.6	2437.2	2439.7	2444.8	2448.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P935953

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2824.7	2808.9	2808.9	2782.5	2772.0	2764.1	2750.9	2711.4	2700.9	2690.3	2706.1
5°	2848.4	2819.4	2798.4	2750.9	2711.4	2695.6	2645.5	2550.7	2487.4	2440.0	2413.7
7.5°	2853.7	2816.8	2777.3	2703.5	2608.6	2566.5	2413.7	2239.7	2192.2	2150.1	2123.7
10°	2848.4	2806.3	2750.9	2640.3	2416.3	2342.5	2189.6	2076.3	2047.3	2039.4	2047.3
12.5°	2830.0	2790.5	2714.0	2529.6	2216.0	2165.9	2076.3	2010.4	2005.2	2018.3	2089.5
15°	2798.4	2761.5	2671.9	2382.0	2105.3	2068.4	2005.2	1981.4	2010.4	2102.7	2316.1
17.5°	2766.7	2724.6	2613.9	2237.0	2021.0	1994.6	1949.8	1997.3	2160.6	2284.5	2355.7
20°	2724.6	2674.5	2548.0	2131.6	1960.4	1936.7	1915.6	2129.0	2252.8	2297.6	2337.2
22.5°	2674.5	2621.8	2458.5	2057.9	1897.1	1878.7	1891.9	2202.8	2252.8	2284.5	2318.7
25°	2608.6	2563.8	2353.1	1999.9	1847.1	1826.0	1876.1	2194.9	2223.9	2231.8	2300.3
27.5°	2548.0	2490.1	2242.3	1947.2	1786.5	1778.6	1889.2	2160.6	2181.7	2189.6	2263.4
30°	2474.3	2387.3	2118.5	1891.9	1723.2	1720.6	1891.9	2118.5	2113.2	2134.3	2208.0
32.5°	2397.8	2234.4	1978.8	1823.4	1662.6	1660.0	1873.4	2055.2	2050.0	2078.9	2134.3
35°	2326.7	2115.8	1789.1	1744.3	1586.2	1588.8	1828.6	1981.4	1984.1	2010.4	2044.7
37.5°	2252.8	2013.1	1580.9	1657.4	1512.4	1512.4	1768.0	1912.9	1907.7	1915.6	1963.0
40°	2165.9	1852.3	1396.5	1544.1	1443.9	1436.0	1694.2	1839.2	1820.7	1818.1	1884.0
42.5°	2073.7	1675.8	1259.5	1393.9	1364.9	1354.3	1604.7	1749.6	1715.3	1723.2	1807.5
45°	1973.5	1628.4	1154.1	1177.8	1283.2	1275.3	1507.2	1646.8	1623.1	1644.2	1731.1
47.5°	1873.4	1533.5	1119.8	977.5	1196.2	1193.6	1399.1	1546.7	1533.5	1554.6	1646.8
50°	1736.4	1428.1	1117.2	837.9	1098.8	1109.3	1270.0	1449.2	1449.2	1467.6	1565.1
52.5°	1559.9	1299.0	1014.4	758.9	985.5	1017.1	1156.7	1364.9	1370.1	1388.6	1475.5
55°	1399.1	1164.6	940.7	698.2	851.1	919.6	1046.1	1277.9	1288.5	1306.9	1386.0
57.5°	1251.6	969.6	924.9	627.1	727.2	793.1	948.6	1193.6	1198.9	1214.7	1291.1
60°	1093.5	700.9	848.4	550.7	619.2	669.3	859.0	1093.5	1111.9	1122.5	1188.3
62.5°	914.3	508.5	769.4	498.0	566.5	577.0	785.2	998.6	1022.3	1030.2	1069.8
65°	650.8	426.9	653.5	453.2	511.2	513.8	706.2	901.1	922.2	935.4	964.4
67.5°	440.0	347.8	498.0	411.0	469.0	471.6	629.7	787.8	816.8	827.4	845.8
70°	305.6	231.9	368.9	366.3	421.6	426.9	548.1	685.1	711.4	719.3	729.9
72.5°	224.0	187.1	305.6	329.4	371.5	376.8	463.7	569.1	595.5	603.4	608.7
75°	171.3	197.6	247.7	287.2	316.2	318.8	379.4	463.7	482.2	487.5	490.1
77.5°	137.0	184.4	181.8	231.9	258.2	253.0	297.7	358.3	374.2	374.2	374.2
80°	102.8	144.9	137.0	166.0	189.7	184.4	213.4	255.6	260.9	266.1	263.5
82.5°	76.4	92.2	92.2	105.4	126.5	121.2	142.3	166.0	166.0	166.0	171.3
85°	47.4	52.7	42.2	55.3	71.1	68.5	79.0	89.6	92.2	92.2	87.0
87.5°	29.0	23.7	13.2	21.1	31.6	31.6	36.9	39.5	36.9	36.9	36.9
90°	42.8	29.6	16.4	29.6	42.8	46.0	72.3	107.3	124.9	111.0	83.3
92.5°	289.2	177.4	65.7	177.4	289.2	317.2	445.9	617.5	703.3	616.4	442.6
95°	566.8	362.2	157.7	362.2	566.8	617.9	1097.3	1736.4	2055.9	1834.6	1392.0
97.5°	633.6	453.2	272.8	453.2	633.6	678.8	1478.0	2543.6	3076.4	2936.6	2656.9
100°	688.8	525.1	361.5	525.1	688.8	729.7	1616.6	2799.1	3390.3	3400.5	3421.0
102.5°	742.4	589.8	437.1	589.8	742.4	780.6	1680.1	2879.4	3479.1	3657.3	4013.7
105°	823.9	694.6	565.4	694.6	823.9	856.3	1727.3	2888.6	3469.2	3868.7	4667.8
107.5°	937.8	817.3	696.8	817.3	937.8	968.0	1736.0	2760.0	3272.0	3829.3	4943.9
110°	1003.2	894.4	785.6	894.4	1003.2	1030.4	1722.9	2646.1	3107.7	3730.8	4976.8



TEST NUMBER: P935953

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1080.1	976.4	872.7	976.4	1080.1	1106.0	1723.4	2546.5	2958.1	3595.8	4871.1
115°	1195.5	1099.8	1004.2	1099.8	1195.5	1219.4	1739.3	2432.5	2779.0	3393.3	4621.8
117.5°	1307.8	1220.8	1134.0	1220.8	1307.8	1329.5	1771.5	2361.0	2655.7	3210.1	4318.9
120°	1373.1	1291.4	1209.5	1291.4	1373.1	1393.6	1797.9	2336.9	2606.4	3113.0	4126.0
122.5°	1448.6	1366.0	1283.5	1366.0	1448.6	1469.2	1835.7	2324.3	2568.7	3024.8	3937.1
125°	1547.4	1472.1	1396.9	1472.1	1547.4	1566.2	1886.7	2314.0	2527.6	2915.1	3690.0
127.5°	1640.8	1564.9	1488.9	1564.9	1640.8	1659.8	1937.5	2307.9	2493.1	2825.8	3491.2
130°	1701.8	1620.0	1538.3	1620.0	1701.8	1722.3	1974.8	2311.5	2479.9	2776.0	3368.5
132.5°	1752.7	1671.0	1589.2	1671.0	1752.7	1773.2	2004.9	2313.9	2468.4	2733.5	3263.9
135°	1813.8	1739.2	1664.7	1739.2	1813.8	1832.4	2037.8	2311.8	2448.7	2670.7	3114.8
137.5°	1889.6	1815.8	1742.0	1815.8	1889.6	1908.0	2087.1	2325.9	2445.4	2633.1	3008.5
140°	1942.0	1874.0	1806.1	1874.0	1942.0	1959.0	2117.2	2328.3	2433.9	2596.0	2920.4
142.5°	1981.0	1918.2	1855.4	1918.2	1981.0	1996.7	2142.4	2336.7	2433.9	2576.3	2861.2
145°	2040.6	1985.8	1931.0	1985.8	2040.6	2054.3	2175.3	2336.7	2417.4	2533.9	2766.9
147.5°	2113.2	2059.9	2006.6	2059.9	2113.2	2126.5	2223.5	2352.8	2417.4	2509.1	2692.4
150°	2152.4	2104.1	2055.9	2104.1	2152.4	2164.4	2248.7	2361.2	2417.4	2494.9	2649.7
152.5°	2179.9	2143.4	2106.9	2143.4	2179.9	2189.0	2265.1	2366.7	2417.4	2483.6	2615.8
155°	2236.5	2209.5	2182.5	2209.5	2236.5	2243.3	2301.3	2378.7	2417.4	2470.0	2575.3
157.5°	2290.9	2264.6	2238.4	2264.6	2290.9	2297.5	2337.4	2390.7	2417.4	2458.4	2540.1
160°	2317.0	2296.6	2276.1	2296.6	2317.0	2322.1	2353.9	2396.3	2417.4	2452.5	2522.6
162.5°	2344.5	2329.3	2313.9	2329.3	2344.5	2348.4	2371.4	2402.1	2417.4	2447.0	2506.2
165°	2382.7	2368.9	2355.0	2368.9	2382.7	2386.3	2396.6	2410.5	2417.4	2438.6	2480.9
167.5°	2405.9	2399.4	2392.8	2399.4	2405.9	2407.6	2416.4	2428.1	2433.9	2447.7	2475.5
170°	2430.6	2424.0	2417.4	2424.0	2430.6	2432.3	2432.8	2433.5	2433.9	2447.7	2475.5
172.5°	2433.5	2432.0	2430.6	2432.0	2433.5	2433.9	2433.9	2433.9	2433.9	2444.8	2466.8
175°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2443.8	2437.2	2433.9	2440.8	2454.7
177.5°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2444.8	2439.7	2437.2	2442.6	2453.6
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P935953  
 CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2687.7	2679.8	2690.3	2661.3	2690.3	2679.8	2687.7	2706.1	2690.3	2700.9	2711.4
5°	2358.3	2345.2	2302.9	2268.7	2302.9	2345.2	2358.3	2413.7	2440.0	2487.4	2550.7
7.5°	2107.9	2097.4	2086.8	2065.8	2086.8	2097.4	2107.9	2123.7	2150.1	2192.2	2239.7
10°	2052.6	2055.2	2071.0	2068.4	2071.0	2055.2	2052.6	2047.3	2039.4	2047.3	2076.3
12.5°	2194.9	2218.6	2305.5	2300.3	2305.5	2218.6	2194.9	2089.5	2018.3	2005.2	2010.4
15°	2358.3	2366.2	2384.7	2387.3	2384.7	2366.2	2358.3	2316.1	2102.7	2010.4	1981.4
17.5°	2374.1	2376.8	2389.9	2389.9	2389.9	2376.8	2374.1	2355.7	2284.5	2160.6	1997.3
20°	2361.0	2366.2	2392.6	2397.8	2392.6	2366.2	2361.0	2337.2	2297.6	2252.8	2129.0
22.5°	2355.7	2366.2	2387.3	2384.7	2387.3	2366.2	2355.7	2318.7	2284.5	2252.8	2202.8
25°	2329.3	2329.3	2332.0	2334.6	2332.0	2329.3	2329.3	2300.3	2231.8	2223.9	2194.9
27.5°	2273.9	2279.2	2295.0	2292.4	2295.0	2279.2	2273.9	2263.4	2189.6	2181.7	2160.6
30°	2223.9	2218.6	2205.4	2194.9	2205.4	2218.6	2223.9	2208.0	2134.3	2113.2	2118.5
32.5°	2139.5	2126.4	2113.2	2105.3	2113.2	2126.4	2139.5	2134.3	2078.9	2050.0	2055.2
35°	2039.4	2042.0	2039.4	2031.5	2039.4	2042.0	2039.4	2044.7	2010.4	1984.1	1981.4
37.5°	1968.3	1973.5	1970.9	1960.4	1970.9	1973.5	1968.3	1963.0	1915.6	1907.7	1912.9
40°	1894.5	1897.1	1894.5	1886.6	1894.5	1897.1	1894.5	1884.0	1818.1	1820.7	1839.2
42.5°	1823.4	1820.7	1812.8	1807.5	1812.8	1820.7	1823.4	1807.5	1723.2	1715.3	1749.6
45°	1741.7	1744.3	1728.5	1720.6	1728.5	1744.3	1741.7	1731.1	1644.2	1623.1	1646.8
47.5°	1660.0	1660.0	1646.8	1638.9	1646.8	1660.0	1660.0	1646.8	1554.6	1533.5	1546.7
50°	1573.0	1570.4	1552.0	1549.3	1552.0	1570.4	1573.0	1565.1	1467.6	1449.2	1449.2
52.5°	1472.9	1472.9	1475.5	1480.8	1475.5	1472.9	1472.9	1475.5	1388.6	1370.1	1364.9
55°	1386.0	1388.6	1407.0	1412.3	1407.0	1388.6	1386.0	1386.0	1306.9	1288.5	1277.9
57.5°	1296.4	1296.4	1309.5	1309.5	1309.5	1296.4	1296.4	1291.1	1214.7	1198.9	1193.6
60°	1193.6	1198.9	1209.4	1206.8	1209.4	1198.9	1193.6	1188.3	1122.5	1111.9	1093.5
62.5°	1085.6	1090.8	1093.5	1088.2	1093.5	1090.8	1085.6	1069.8	1030.2	1022.3	998.6
65°	972.3	977.5	980.2	974.9	980.2	977.5	972.3	964.4	935.4	922.2	901.1
67.5°	856.3	853.7	851.1	861.6	851.1	853.7	856.3	845.8	827.4	816.8	787.8
70°	737.8	737.8	735.1	740.4	735.1	737.8	737.8	729.9	719.3	711.4	685.1
72.5°	611.3	608.7	619.2	611.3	619.2	608.7	611.3	608.7	603.4	595.5	569.1
75°	487.5	492.7	487.5	495.4	487.5	492.7	487.5	490.1	487.5	482.2	463.7
77.5°	371.5	376.8	371.5	371.5	371.5	376.8	371.5	374.2	374.2	374.2	358.3
80°	263.5	260.9	260.9	258.2	260.9	260.9	263.5	263.5	266.1	260.9	255.6
82.5°	168.6	166.0	166.0	171.3	166.0	166.0	168.6	171.3	166.0	166.0	166.0
85°	92.2	94.9	89.6	89.6	89.6	94.9	92.2	87.0	92.2	92.2	89.6
87.5°	34.3	31.6	31.6	31.6	31.6	31.6	34.3	36.9	36.9	36.9	39.5
90°	62.4	62.4	62.4	62.4	62.4	62.4	62.4	83.3	111.0	124.9	107.3
92.5°	312.2	299.9	250.1	200.5	250.1	299.9	312.2	442.6	616.4	703.3	617.5
95°	1060.0	1022.4	871.9	721.4	871.9	1022.4	1060.0	1392.0	1834.6	2055.9	1736.4
97.5°	2447.0	2375.5	2089.1	1802.8	2089.1	2375.5	2447.0	2656.9	2936.6	3076.4	2543.6
100°	3436.4	3351.1	3010.0	2668.9	3010.0	3351.1	3436.4	3421.0	3400.5	3390.3	2799.1
102.5°	4281.1	4208.0	3915.9	3623.7	3915.9	4208.0	4281.1	4013.7	3657.3	3479.1	2879.4
105°	5267.1	5227.8	5070.9	4913.8	5070.9	5227.8	5267.1	4667.8	3868.7	3469.2	2888.6
107.5°	5779.8	5789.3	5827.4	5865.3	5827.4	5789.3	5779.8	4943.9	3829.3	3272.0	2760.0
110°	5911.3	5952.2	6115.9	6279.5	6115.9	5952.2	5911.3	4976.8	3730.8	3107.7	2646.1



TEST NUMBER: P935953

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5827.5	5890.3	6141.6	6392.9	6141.6	5890.3	5827.5	4871.1	3595.8	2958.1	2546.5
115°	5543.2	5630.3	5978.7	6327.1	5978.7	5630.3	5543.2	4621.8	3393.3	2779.0	2432.5
117.5°	5150.4	5247.1	5633.4	6019.8	5633.4	5247.1	5150.4	4318.9	3210.1	2655.7	2361.0
120°	4885.8	4979.7	5355.1	5730.6	5355.1	4979.7	4885.8	4126.0	3113.0	2606.4	2336.9
122.5°	4621.3	4713.8	5084.2	5454.5	5084.2	4713.8	4621.3	3937.1	3024.8	2568.7	2324.3
125°	4271.2	4356.5	4697.6	5038.7	4697.6	4356.5	4271.2	3690.0	2915.1	2527.6	2314.0
127.5°	3990.2	4062.1	4350.0	4637.7	4350.0	4062.1	3990.2	3491.2	2825.8	2493.1	2307.9
130°	3812.7	3879.2	4145.1	4410.9	4145.1	3879.2	3812.7	3368.5	2776.0	2479.9	2311.5
132.5°	3661.5	3721.1	3959.1	4197.2	3959.1	3721.1	3661.5	3263.9	2733.5	2468.4	2313.9
135°	3447.9	3499.2	3704.4	3909.7	3704.4	3499.2	3447.9	3114.8	2670.7	2448.7	2311.8
137.5°	3290.1	3332.1	3500.1	3668.0	3500.1	3332.1	3290.1	3008.5	2633.1	2445.4	2325.9
140°	3163.6	3202.8	3359.9	3516.9	3359.9	3202.8	3163.6	2920.4	2596.0	2433.9	2328.3
142.5°	3074.8	3108.7	3243.7	3378.8	3243.7	3108.7	3074.8	2861.2	2576.3	2433.9	2336.7
145°	2941.7	2967.3	3069.6	3171.8	3069.6	2967.3	2941.7	2766.9	2533.9	2417.4	2336.7
147.5°	2830.0	2851.1	2935.9	3020.6	2935.9	2851.1	2830.0	2692.4	2509.1	2417.4	2352.8
150°	2765.9	2783.0	2851.7	2920.4	2851.7	2783.0	2765.9	2649.7	2494.9	2417.4	2361.2
152.5°	2714.9	2727.9	2779.7	2831.6	2779.7	2727.9	2714.9	2615.8	2483.6	2417.4	2366.7
155°	2654.1	2662.7	2697.0	2731.3	2697.0	2662.7	2654.1	2575.3	2470.0	2417.4	2378.7
157.5°	2601.5	2607.6	2631.7	2655.7	2631.7	2607.6	2601.5	2540.1	2458.4	2417.4	2390.7
160°	2575.2	2578.7	2592.6	2606.4	2592.6	2578.7	2575.2	2522.6	2452.5	2417.4	2396.3
162.5°	2550.6	2553.8	2567.0	2580.2	2567.0	2553.8	2550.6	2506.2	2447.0	2417.4	2402.1
165°	2512.7	2516.2	2530.1	2544.0	2530.1	2516.2	2512.7	2480.9	2438.6	2417.4	2410.5
167.5°	2496.3	2497.8	2503.6	2509.5	2503.6	2497.8	2496.3	2475.5	2447.7	2433.9	2428.1
170°	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2475.5	2447.7	2433.9	2433.5
172.5°	2483.2	2481.9	2476.8	2471.7	2476.8	2481.9	2483.2	2466.8	2444.8	2433.9	2433.9
175°	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2454.7	2440.8	2433.9	2437.2
177.5°	2461.8	2460.3	2454.5	2448.7	2454.5	2460.3	2461.8	2453.6	2442.6	2437.2	2439.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P935953

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2785.2	2785.2	2785.2	2785.2	2785.2
2.5°	2750.9	2764.1	2772.0	2782.5	2808.9
5°	2645.5	2695.6	2711.4	2750.9	2798.4
7.5°	2413.7	2566.5	2608.6	2703.5	2777.3
10°	2189.6	2342.5	2416.3	2640.3	2750.9
12.5°	2076.3	2165.9	2216.0	2529.6	2714.0
15°	2005.2	2068.4	2105.3	2382.0	2671.9
17.5°	1949.8	1994.6	2021.0	2237.0	2613.9
20°	1915.6	1936.7	1960.4	2131.6	2548.0
22.5°	1891.9	1878.7	1897.1	2057.9	2458.5
25°	1876.1	1826.0	1847.1	1999.9	2353.1
27.5°	1889.2	1778.6	1786.5	1947.2	2242.3
30°	1891.9	1720.6	1723.2	1891.9	2118.5
32.5°	1873.4	1660.0	1662.6	1823.4	1978.8
35°	1828.6	1588.8	1586.2	1744.3	1789.1
37.5°	1768.0	1512.4	1512.4	1657.4	1580.9
40°	1694.2	1436.0	1443.9	1544.1	1396.5
42.5°	1604.7	1354.3	1364.9	1393.9	1259.5
45°	1507.2	1275.3	1283.2	1177.8	1154.1
47.5°	1399.1	1193.6	1196.2	977.5	1119.8
50°	1270.0	1109.3	1098.8	837.9	1117.2
52.5°	1156.7	1017.1	985.5	758.9	1014.4
55°	1046.1	919.6	851.1	698.2	940.7
57.5°	948.6	793.1	727.2	627.1	924.9
60°	859.0	669.3	619.2	550.7	848.4
62.5°	785.2	577.0	566.5	498.0	769.4
65°	706.2	513.8	511.2	453.2	653.5
67.5°	629.7	471.6	469.0	411.0	498.0
70°	548.1	426.9	421.6	366.3	368.9
72.5°	463.7	376.8	371.5	329.4	305.6
75°	379.4	318.8	316.2	287.2	247.7
77.5°	297.7	253.0	258.2	231.9	181.8
80°	213.4	184.4	189.7	166.0	137.0
82.5°	142.3	121.2	126.5	105.4	92.2
85°	79.0	68.5	71.1	55.3	42.2
87.5°	36.9	31.6	31.6	21.1	13.2
90°	72.3	46.0	42.8	29.6	16.4
92.5°	445.9	317.2	289.2	177.4	65.7
95°	1097.3	617.9	566.8	362.2	157.7
97.5°	1478.0	678.8	633.6	453.2	272.8
100°	1616.6	729.7	688.8	525.1	361.5
102.5°	1680.1	780.6	742.4	589.8	437.1
105°	1727.3	856.3	823.9	694.6	565.4
107.5°	1736.0	968.0	937.8	817.3	696.8
110°	1722.9	1030.4	1003.2	894.4	785.6



TEST NUMBER: P935953

CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1723.4	1106.0	1080.1	976.4	872.7
115°	1739.3	1219.4	1195.5	1099.8	1004.2
117.5°	1771.5	1329.5	1307.8	1220.8	1134.0
120°	1797.9	1393.6	1373.1	1291.4	1209.5
122.5°	1835.7	1469.2	1448.6	1366.0	1283.5
125°	1886.7	1566.2	1547.4	1472.1	1396.9
127.5°	1937.5	1659.8	1640.8	1564.9	1488.9
130°	1974.8	1722.3	1701.8	1620.0	1538.3
132.5°	2004.9	1773.2	1752.7	1671.0	1589.2
135°	2037.8	1832.4	1813.8	1739.2	1664.7
137.5°	2087.1	1908.0	1889.6	1815.8	1742.0
140°	2117.2	1959.0	1942.0	1874.0	1806.1
142.5°	2142.4	1996.7	1981.0	1918.2	1855.4
145°	2175.3	2054.3	2040.6	1985.8	1931.0
147.5°	2223.5	2126.5	2113.2	2059.9	2006.6
150°	2248.7	2164.4	2152.4	2104.1	2055.9
152.5°	2265.1	2189.0	2179.9	2143.4	2106.9
155°	2301.3	2243.3	2236.5	2209.5	2182.5
157.5°	2337.4	2297.5	2290.9	2264.6	2238.4
160°	2353.9	2322.1	2317.0	2296.6	2276.1
162.5°	2371.4	2348.4	2344.5	2329.3	2313.9
165°	2396.6	2386.3	2382.7	2368.9	2355.0
167.5°	2416.4	2407.6	2405.9	2399.4	2392.8
170°	2432.8	2432.3	2430.6	2424.0	2417.4
172.5°	2433.9	2433.9	2433.5	2432.0	2430.6
175°	2443.8	2448.7	2448.7	2448.7	2448.7
177.5°	2444.8	2448.7	2448.7	2448.7	2448.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P935953  
 CATALOG NUMBER: SQ4-FA-150U-075D-93050-1D-UNV-STD-W-12-3000K

**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	10.25	10.97	11.36	12.07	13.58	13.11	13.82	14.21	14.92	16.43
	3H	10.72	11.36	11.83	12.47	14.00	14.45	15.09	15.56	16.19	17.73
	4H	10.90	11.51	12.03	12.62	14.16	14.89	15.50	16.01	16.60	18.14
	6H	11.01	11.57	12.14	12.68	14.23	15.17	15.73	16.30	16.84	18.39
	8H	11.01	11.54	12.14	12.67	14.21	15.24	15.78	16.38	16.90	18.44
	12H	10.98	11.48	12.12	12.60	14.17	15.28	15.78	16.42	16.91	18.47
4H	2H	11.27	11.88	12.40	12.99	14.53	13.49	14.10	14.62	15.21	16.75
	3H	12.29	12.79	13.42	13.93	15.48	14.99	15.50	16.13	16.63	18.19
	4H	12.56	13.02	13.69	14.15	15.72	15.52	15.99	16.66	17.11	18.68
	6H	12.67	13.07	13.82	14.22	15.78	15.88	16.28	17.03	17.43	18.99
	8H	12.68	13.05	13.82	14.19	15.76	15.99	16.36	17.13	17.50	19.08
	12H	12.63	12.97	13.80	14.12	15.71	16.04	16.38	17.20	17.53	19.11
8H	4H	13.00	13.37	14.15	14.51	16.09	15.63	16.00	16.78	17.14	18.72
	6H	13.26	13.56	14.42	14.74	16.32	16.07	16.37	17.23	17.56	19.13
	8H	13.30	13.57	14.47	14.73	16.32	16.22	16.49	17.39	17.65	19.24
	12H	13.28	13.51	14.45	14.67	16.30	16.32	16.55	17.49	17.71	19.34
12H	4H	13.00	13.34	14.16	14.49	16.07	15.59	15.93	16.75	17.08	18.66
	6H	13.32	13.59	14.49	14.75	16.34	16.06	16.33	17.23	17.49	19.09
	8H	13.38	13.61	14.55	14.77	16.40	16.22	16.46	17.40	17.61	19.24