

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: P936105

Luminaire Tested: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

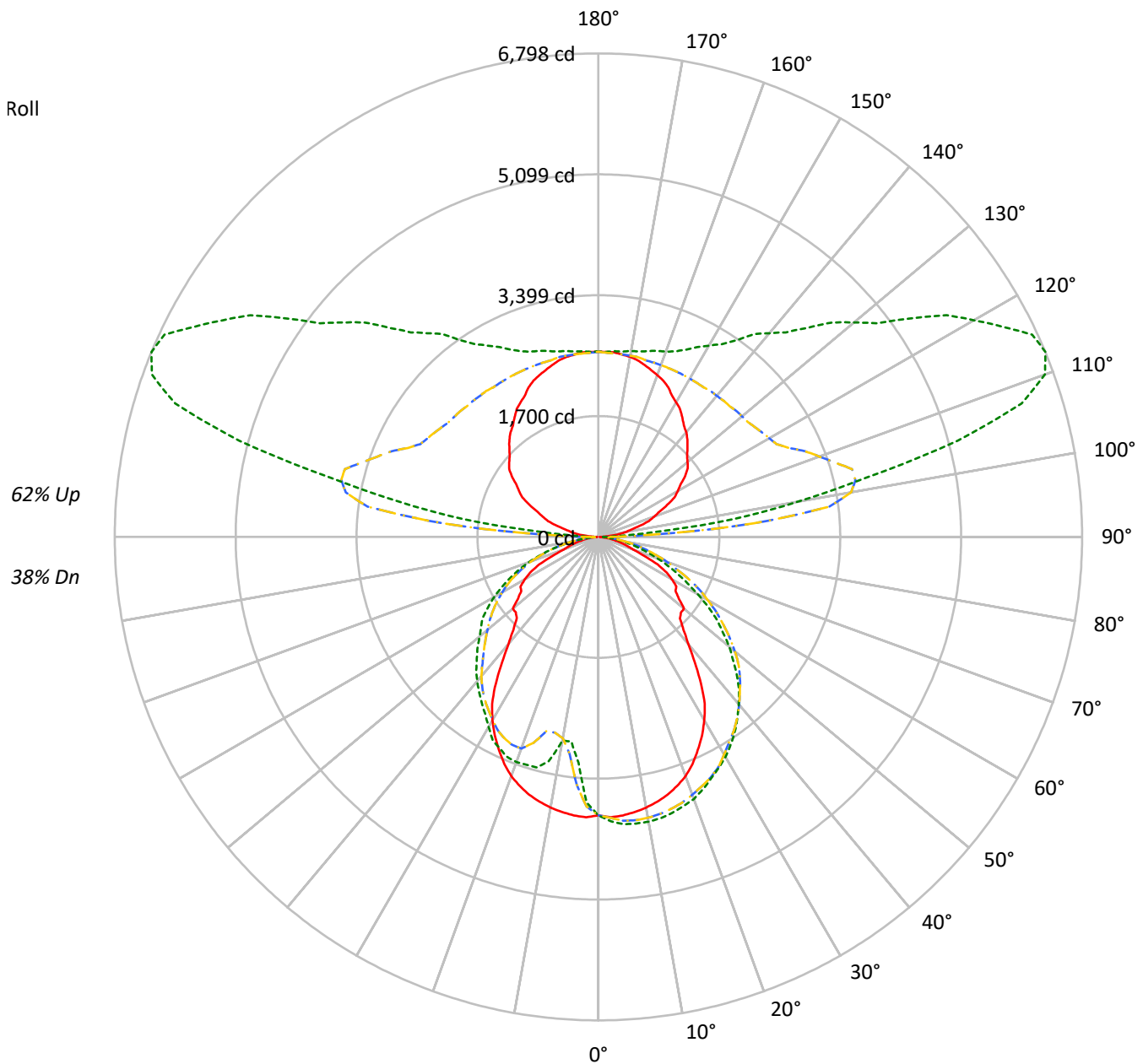
Test Method: LM-79-2019  
Report Number: P936105  
REPORT IS A COMBINATION OF REPORTS P933777 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27036.5 lumens  
Efficiency: N/A  
Efficacy: 124.5 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): 217.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P936105  
CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

### Luminous Intensity Polar Plot



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



TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

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

RF	20				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	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27				27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19				19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10				10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9				9

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

	0°	90°	180°	270°
0°	12104	12104	12104	12104
5°	12199	12218	12199	9607
10°	12121	12036	12121	8604
15°	11994	11775	11994	9832
20°	11748	11466	11748	9852
25°	11239	11015	11239	9643
30°	10580	10641	10580	9186
35°	9437	10168	9437	8682
40°	7867	9611	7867	8301
45°	7034	8959	7034	7863
50°	7479	8182	7479	7424
55°	7043	7344	7043	7170
60°	7270	6237	7270	6567
65°	6601	5156	6601	5763
70°	4582	4109	4582	4831
75°	4033	3037	4033	3637
80°	3274	2008	3274	2186
85°	1918	1063	1918	904

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10774 cd/sqm



TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.2	1.3
10°-20°	1002.9	3.7
20°-30°	1550.3	5.7
30°-40°	1850.7	6.8
40°-50°	1861.6	6.9
50°-60°	1619.8	6.0
60°-70°	1148.5	4.2
70°-80°	607.6	2.2
80°-90°	161.3	0.6
90°-100°	1269.3	4.7
100°-110°	3337.1	12.3
110°-120°	3460.2	12.8
120°-130°	2775.5	10.3
130°-140°	2177.8	8.1
140°-150°	1671.5	6.2
150°-160°	1203.8	4.5
160°-170°	736.5	2.7
170°-180°	248.8	0.9
0°-30°	2906.5	10.8
0°-40°	4757.2	17.6
0°-60°	8238.6	30.5
0°-90°	10156.0	37.6
90°-120°	8066.6	29.8
90°-150°	14691.3	54.3
90°-180°	16880.0	62.4
0°-180°	27036.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3913	3913	3913	3913	3913	
5°	3932	4054	3932	3188	3932	373
15°	3754	4017	3754	3354	3754	1056
25°	3306	3747	3306	3280	3306	1518
35°	2514	3343	2514	2854	2514	1555
45°	1622	2754	1622	2418	1622	1299
55°	1322	2032	1322	1984	1322	1214
65°	918	1225	918	1370	918	877
75°	348	581	348	696	348	366
85°	59	148	59	126	59	80
90°	18	66	18	66	18	17
95°	168	767	168	767	168	186
105°	601	5225	601	5225	601	637
115°	1068	6728	1068	6728	1068	1055
125°	1486	5358	1486	5358	1486	1319
135°	1770	4158	1770	4158	1770	1370
145°	2054	3373	2054	3373	2054	1286
155°	2321	2905	2321	2905	2321	1066
165°	2504	2705	2504	2705	2504	707
175°	2604	2622	2604	2622	2604	247
180°	2604	2604	2604	2604	2604	



TEST NUMBER: P936105  
 CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3946.4	3946.4	3968.7	3976.0	3976.0	3964.9	3953.8	3964.9	3998.3	4009.4	4005.6
5°	3931.7	3961.3	4002.0	4009.4	4016.8	4013.1	4005.6	4013.1	4050.1	4057.5	4061.2
7.5°	3902.0	3957.5	4009.4	4020.5	4031.6	4020.5	4016.8	4024.2	4061.2	4068.6	4068.6
10°	3865.0	3942.8	4002.0	4009.4	4020.5	4009.4	4009.4	4024.2	4061.2	4068.6	4072.3
12.5°	3813.1	3920.6	3976.0	3983.5	3998.3	3994.5	3990.9	4005.6	4042.7	4050.1	4050.1
15°	3753.9	3879.8	3931.7	3939.1	3964.9	3957.5	3957.5	3972.4	4013.1	4024.2	4020.5
17.5°	3672.5	3828.0	3887.2	3898.3	3916.8	3913.1	3916.8	3931.7	3968.7	3976.0	3979.8
20°	3579.9	3757.7	3828.0	3839.1	3857.6	3857.6	3857.6	3876.1	3913.1	3927.9	3927.9
22.5°	3454.0	3683.6	3757.7	3765.0	3787.3	3787.3	3794.7	3820.5	3853.9	3857.6	3857.6
25°	3306.0	3602.2	3665.1	3687.3	3709.5	3720.6	3731.7	3746.6	3757.7	3753.9	3757.7
27.5°	3150.5	3498.5	3579.9	3594.8	3624.4	3635.5	3650.3	3654.0	3657.6	3668.8	3661.4
30°	2976.5	3354.1	3476.3	3491.1	3539.2	3546.6	3531.8	3539.2	3557.7	3565.2	3572.6
32.5°	2780.2	3139.4	3368.9	3402.2	3446.6	3424.4	3420.8	3431.9	3461.5	3461.5	3468.9
35°	2513.8	2972.8	3269.0	3298.6	3331.9	3306.0	3320.7	3324.5	3343.0	3354.1	3350.4
37.5°	2221.2	2828.4	3165.3	3187.6	3213.4	3180.1	3202.3	3213.4	3228.3	3220.8	3220.8
40°	1962.1	2602.6	3043.2	3057.9	3080.1	3054.3	3076.4	3083.9	3091.3	3083.9	3080.1
42.5°	1769.6	2354.5	2913.5	2932.1	2917.3	2935.7	2943.1	2958.0	2946.9	2932.1	2932.1
45°	1621.5	2287.9	2772.9	2795.1	2772.9	2802.5	2813.6	2813.6	2780.2	2772.9	2769.2
47.5°	1573.4	2154.6	2632.2	2632.2	2621.1	2658.1	2676.7	2650.7	2617.3	2606.3	2606.3
50°	1569.7	2006.5	2439.7	2424.9	2476.7	2521.1	2502.7	2476.7	2450.8	2410.1	2410.1
52.5°	1425.3	1825.1	2191.6	2247.2	2328.6	2354.5	2324.9	2299.0	2254.6	2236.1	2221.2
55°	1321.6	1636.4	1965.8	2076.8	2162.0	2195.4	2139.8	2113.9	2047.2	2036.1	2028.7
57.5°	1299.5	1362.3	1758.5	1899.2	2002.9	1999.1	1965.8	1917.7	1862.1	1851.1	1847.4
60°	1192.1	984.7	1536.3	1703.0	1810.4	1799.3	1769.6	1725.2	1673.4	1666.0	1658.5
62.5°	1081.0	714.5	1284.6	1473.5	1625.3	1621.5	1595.6	1529.0	1492.0	1473.5	1458.6
65°	918.1	599.7	914.4	1225.4	1443.8	1451.2	1395.7	1347.6	1306.9	1284.6	1280.9
67.5°	699.7	488.7	618.2	1021.8	1269.9	1262.4	1192.1	1169.8	1118.0	1106.9	1084.7
70°	518.3	325.8	429.5	829.3	1099.5	1081.0	1025.4	999.6	951.5	925.5	910.7
72.5°	429.5	262.8	314.7	644.2	925.5	903.3	855.2	825.6	784.8	762.6	747.9
75°	348.0	277.7	240.6	477.6	751.5	736.7	692.3	662.7	629.3	599.7	603.5
77.5°	255.4	259.2	192.5	351.7	596.1	573.8	547.9	510.9	496.0	466.4	466.4
80°	192.5	203.6	144.4	240.6	429.5	429.5	407.2	381.4	355.4	340.6	340.6
82.5°	129.5	129.5	107.3	151.8	292.4	281.3	266.6	259.2	244.3	237.0	237.0
85°	59.2	74.1	66.6	92.6	159.2	166.6	166.6	159.2	155.5	148.0	151.8
87.5°	18.5	33.3	40.7	51.8	81.4	85.2	88.8	88.8	88.8	92.6	92.6
90°	17.5	31.5	45.5	48.9	76.9	114.1	132.8	118.1	88.5	66.4	66.4
92.5°	69.9	188.7	307.6	337.3	474.2	656.7	747.9	655.5	470.6	332.0	318.9
95°	167.7	385.2	602.7	657.1	1166.8	1846.5	2186.3	1950.9	1480.3	1127.2	1087.3
97.5°	290.1	481.9	673.8	721.8	1571.7	2705.0	3271.5	3122.8	2825.4	2602.2	2526.1
100°	384.4	558.4	732.4	776.0	1719.1	2976.6	3605.3	3616.2	3637.9	3654.3	3563.6
102.5°	464.9	627.2	789.5	830.1	1786.6	3062.0	3699.8	3889.3	4268.3	4552.6	4474.9
105°	601.2	738.7	876.2	910.6	1836.8	3071.7	3689.2	4114.1	4963.8	5601.1	5559.4
107.5°	741.0	869.2	997.3	1029.4	1846.1	2935.0	3479.5	4072.1	5257.4	6146.4	6156.5
110°	835.4	951.1	1066.8	1095.8	1832.1	2813.9	3304.8	3967.4	5292.4	6286.2	6329.7



TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	928.0	1038.3	1148.6	1176.2	1832.7	2708.0	3145.7	3823.8	5180.0	6197.1	6263.9
115°	1067.8	1169.6	1271.4	1296.8	1849.6	2586.7	2955.3	3608.5	4914.9	5894.8	5987.4
117.5°	1205.9	1298.3	1390.7	1413.8	1883.9	2510.7	2824.1	3413.7	4592.8	5477.1	5579.8
120°	1286.2	1373.3	1460.2	1482.0	1911.9	2485.1	2771.7	3310.4	4387.7	5195.7	5295.5
122.5°	1364.9	1452.7	1540.4	1562.4	1952.2	2471.7	2731.6	3216.6	4186.7	4914.3	5012.8
125°	1485.5	1565.5	1645.5	1665.5	2006.3	2460.7	2687.9	3099.9	3924.0	4542.0	4632.7
127.5°	1583.3	1664.1	1744.9	1765.1	2060.4	2454.3	2651.2	3005.0	3712.6	4243.3	4319.8
130°	1635.8	1722.8	1809.7	1831.5	2100.0	2458.1	2637.1	2952.1	3582.1	4054.5	4125.2
132.5°	1690.0	1776.9	1863.9	1885.7	2132.0	2460.6	2624.9	2906.9	3470.8	3893.8	3957.1
135°	1770.3	1849.5	1928.8	1948.6	2167.1	2458.4	2604.0	2840.1	3312.3	3666.5	3721.1
137.5°	1852.5	1931.0	2009.4	2029.0	2219.5	2473.4	2600.4	2800.0	3199.3	3498.8	3543.4
140°	1920.7	1992.9	2065.2	2083.2	2251.5	2475.9	2588.2	2760.6	3105.6	3364.2	3405.9
142.5°	1973.1	2039.9	2106.6	2123.4	2278.3	2484.9	2588.2	2739.7	3042.6	3269.8	3305.8
145°	2053.5	2111.8	2170.0	2184.5	2313.2	2484.9	2570.7	2694.6	2942.4	3128.2	3155.4
147.5°	2133.8	2190.5	2247.2	2261.4	2364.5	2502.0	2570.7	2668.3	2863.2	3009.4	3032.0
150°	2186.3	2237.6	2288.9	2301.7	2391.3	2511.0	2570.7	2653.1	2817.8	2941.3	2959.5
152.5°	2240.5	2279.3	2318.1	2327.8	2408.8	2516.8	2570.7	2641.1	2781.6	2887.1	2900.9
155°	2320.9	2349.7	2378.3	2385.5	2447.3	2529.6	2570.7	2626.7	2738.6	2822.5	2831.6
157.5°	2380.3	2408.2	2436.2	2443.2	2485.7	2542.3	2570.7	2614.3	2701.2	2766.5	2773.0
160°	2420.5	2442.2	2464.0	2469.4	2503.2	2548.2	2570.7	2608.0	2682.5	2738.5	2742.2
162.5°	2460.6	2477.0	2493.2	2497.3	2521.8	2554.4	2570.7	2602.2	2665.2	2712.3	2715.8
165°	2504.3	2519.1	2533.8	2537.6	2548.6	2563.4	2570.7	2593.3	2638.3	2672.1	2675.8
167.5°	2544.6	2551.6	2558.5	2560.3	2569.6	2582.0	2588.2	2603.0	2632.5	2654.6	2656.2
170°	2570.7	2577.7	2584.8	2586.5	2587.1	2587.8	2588.2	2603.0	2632.5	2654.6	2654.6
172.5°	2584.8	2586.2	2587.8	2588.2	2588.2	2588.2	2588.2	2599.9	2623.2	2640.7	2639.3
175°	2604.0	2604.0	2604.0	2604.0	2598.8	2591.8	2588.2	2595.6	2610.3	2621.5	2621.5
177.5°	2604.0	2604.0	2604.0	2604.0	2599.9	2594.5	2591.8	2597.5	2609.2	2617.9	2616.3
180°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0



TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	4013.1	4002.0	4013.1	4005.6	4009.4	3998.3	3964.9	3953.8	3964.9	3976.0	3976.0
5°	4061.2	4053.8	4061.2	4061.2	4057.5	4050.1	4013.1	4005.6	4013.1	4016.8	4009.4
7.5°	4076.0	4065.0	4076.0	4068.6	4068.6	4061.2	4024.2	4016.8	4020.5	4031.6	4020.5
10°	4076.0	4065.0	4076.0	4072.3	4068.6	4061.2	4024.2	4009.4	4009.4	4020.5	4009.4
12.5°	4057.5	4050.1	4057.5	4050.1	4050.1	4042.7	4005.6	3990.9	3994.5	3998.3	3983.5
15°	4027.9	4016.8	4027.9	4020.5	4024.2	4013.1	3972.4	3957.5	3957.5	3964.9	3939.1
17.5°	3983.5	3968.7	3983.5	3979.8	3976.0	3968.7	3931.7	3916.8	3913.1	3916.8	3898.3
20°	3931.7	3920.6	3931.7	3927.9	3927.9	3913.1	3876.1	3857.6	3857.6	3857.6	3839.1
22.5°	3850.2	3839.1	3850.2	3857.6	3857.6	3853.9	3820.5	3794.7	3787.3	3787.3	3765.0
25°	3757.7	3746.6	3757.7	3757.7	3753.9	3757.7	3746.6	3731.7	3720.6	3709.5	3687.3
27.5°	3668.8	3661.4	3668.8	3661.4	3668.8	3657.6	3654.0	3650.3	3635.5	3624.4	3594.8
30°	3579.9	3572.6	3579.9	3572.6	3565.2	3557.7	3539.2	3531.8	3546.6	3539.2	3491.1
32.5°	3468.9	3461.5	3468.9	3468.9	3461.5	3461.5	3431.9	3420.8	3424.4	3446.6	3402.2
35°	3354.1	3343.0	3354.1	3350.4	3354.1	3343.0	3324.5	3320.7	3306.0	3331.9	3298.6
37.5°	3220.8	3209.7	3220.8	3220.8	3220.8	3228.3	3213.4	3202.3	3180.1	3213.4	3187.6
40°	3083.9	3069.0	3083.9	3080.1	3083.9	3091.3	3083.9	3076.4	3054.3	3080.1	3057.9
42.5°	2928.4	2924.6	2928.4	2932.1	2932.1	2946.9	2958.0	2943.1	2935.7	2917.3	2932.1
45°	2761.7	2754.4	2761.7	2769.2	2772.9	2780.2	2813.6	2813.6	2802.5	2772.9	2795.1
47.5°	2584.1	2565.6	2584.1	2606.3	2606.3	2617.3	2650.7	2676.7	2658.1	2621.1	2632.2
50°	2395.2	2399.0	2395.2	2410.1	2410.1	2450.8	2476.7	2502.7	2521.1	2476.7	2424.9
52.5°	2210.1	2206.5	2210.1	2221.2	2236.1	2254.6	2299.0	2324.9	2354.5	2328.6	2247.2
55°	2025.0	2032.5	2025.0	2028.7	2036.1	2047.2	2113.9	2139.8	2195.4	2162.0	2076.8
57.5°	1840.0	1828.9	1840.0	1847.4	1851.1	1862.1	1917.7	1965.8	1999.1	2002.9	1899.2
60°	1625.3	1610.4	1625.3	1658.5	1666.0	1673.4	1725.2	1769.6	1799.3	1810.4	1703.0
62.5°	1436.4	1410.5	1436.4	1458.6	1473.5	1492.0	1529.0	1595.6	1621.5	1625.3	1473.5
65°	1236.5	1225.4	1236.5	1280.9	1284.6	1306.9	1347.6	1395.7	1451.2	1443.8	1225.4
67.5°	1055.1	1055.1	1055.1	1084.7	1106.9	1118.0	1169.8	1192.1	1262.4	1269.9	1021.8
70°	888.5	884.8	888.5	910.7	925.5	951.5	999.6	1025.4	1081.0	1099.5	829.3
72.5°	729.4	725.6	729.4	747.9	762.6	784.8	825.6	855.2	903.3	925.5	644.2
75°	588.6	581.2	588.6	603.5	599.7	629.3	662.7	692.3	736.7	751.5	477.6
77.5°	451.7	451.7	451.7	466.4	466.4	496.0	510.9	547.9	573.8	596.1	351.7
80°	336.9	333.2	336.9	340.6	340.6	355.4	381.4	407.2	429.5	429.5	240.6
82.5°	237.0	229.5	237.0	237.0	237.0	244.3	259.2	266.6	281.3	292.4	151.8
85°	148.0	148.0	148.0	151.8	148.0	155.5	159.2	166.6	166.6	159.2	92.6
87.5°	96.3	92.6	96.3	92.6	92.6	88.8	88.8	88.8	85.2	81.4	51.8
90°	66.4	66.4	66.4	66.4	66.4	88.5	118.1	132.8	114.1	76.9	48.9
92.5°	266.0	213.2	266.0	318.9	332.0	470.6	655.5	747.9	656.7	474.2	337.3
95°	927.2	767.2	927.2	1087.3	1127.2	1480.3	1950.9	2186.3	1846.5	1166.8	657.1
97.5°	2221.6	1917.1	2221.6	2526.1	2602.2	2825.4	3122.8	3271.5	2705.0	1571.7	721.8
100°	3200.9	2838.1	3200.9	3563.6	3654.3	3637.9	3616.2	3605.3	2976.6	1719.1	776.0
102.5°	4164.2	3853.5	4164.2	4474.9	4552.6	4268.3	3889.3	3699.8	3062.0	1786.6	830.1
105°	5392.4	5225.4	5392.4	5559.4	5601.1	4963.8	4114.1	3689.2	3071.7	1836.8	910.6
107.5°	6196.9	6237.3	6196.9	6156.5	6146.4	5257.4	4072.1	3479.5	2935.0	1846.1	1029.4
110°	6503.7	6677.7	6503.7	6329.7	6286.2	5292.4	3967.4	3304.8	2813.9	1832.1	1095.8





TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6531.1	6798.3	6531.1	6263.9	6197.1	5180.0	3823.8	3145.7	2708.0	1832.7	1176.2
115°	6357.8	6728.3	6357.8	5987.4	5894.8	4914.9	3608.5	2955.3	2586.7	1849.6	1296.8
117.5°	5990.7	6401.5	5990.7	5579.8	5477.1	4592.8	3413.7	2824.1	2510.7	1883.9	1413.8
120°	5694.7	6094.0	5694.7	5295.5	5195.7	4387.7	3310.4	2771.7	2485.1	1911.9	1482.0
122.5°	5406.6	5800.4	5406.6	5012.8	4914.3	4186.7	3216.6	2731.6	2471.7	1952.2	1562.4
125°	4995.5	5358.3	4995.5	4632.7	4542.0	3924.0	3099.9	2687.9	2460.7	2006.3	1665.5
127.5°	4625.8	4931.8	4625.8	4319.8	4243.3	3712.6	3005.0	2651.2	2454.3	2060.4	1765.1
130°	4407.9	4690.6	4407.9	4125.2	4054.5	3582.1	2952.1	2637.1	2458.1	2100.0	1831.5
132.5°	4210.2	4463.4	4210.2	3957.1	3893.8	3470.8	2906.9	2624.9	2460.6	2132.0	1885.7
135°	3939.3	4157.6	3939.3	3721.1	3666.5	3312.3	2840.1	2604.0	2458.4	2167.1	1948.6
137.5°	3722.1	3900.7	3722.1	3543.4	3498.8	3199.3	2800.0	2600.4	2473.4	2219.5	2029.0
140°	3572.9	3739.9	3572.9	3405.9	3364.2	3105.6	2760.6	2588.2	2475.9	2251.5	2083.2
142.5°	3449.4	3593.1	3449.4	3305.8	3269.8	3042.6	2739.7	2588.2	2484.9	2278.3	2123.4
145°	3264.2	3373.0	3264.2	3155.4	3128.2	2942.4	2694.6	2570.7	2484.9	2313.2	2184.5
147.5°	3122.1	3212.1	3122.1	3032.0	3009.4	2863.2	2668.3	2570.7	2502.0	2364.5	2261.4
150°	3032.5	3105.6	3032.5	2959.5	2941.3	2817.8	2653.1	2570.7	2511.0	2391.3	2301.7
152.5°	2956.0	3011.1	2956.0	2900.9	2887.1	2781.6	2641.1	2570.7	2516.8	2408.8	2327.8
155°	2868.0	2904.6	2868.0	2831.6	2822.5	2738.6	2626.7	2570.7	2529.6	2447.3	2385.5
157.5°	2798.5	2824.1	2798.5	2773.0	2766.5	2701.2	2614.3	2570.7	2542.3	2485.7	2443.2
160°	2757.0	2771.7	2757.0	2742.2	2738.5	2682.5	2608.0	2570.7	2548.2	2503.2	2469.4
162.5°	2729.8	2743.8	2729.8	2715.8	2712.3	2665.2	2602.2	2570.7	2554.4	2521.8	2497.3
165°	2690.6	2705.3	2690.6	2675.8	2672.1	2638.3	2593.3	2570.7	2563.4	2548.6	2537.6
167.5°	2662.4	2668.6	2662.4	2656.2	2654.6	2632.5	2603.0	2588.2	2582.0	2569.6	2560.3
170°	2654.6	2654.6	2654.6	2654.6	2654.6	2632.5	2603.0	2588.2	2587.8	2587.1	2586.5
172.5°	2633.9	2628.5	2633.9	2639.3	2640.7	2623.2	2599.9	2588.2	2588.2	2588.2	2588.2
175°	2621.5	2621.5	2621.5	2621.5	2621.5	2610.3	2595.6	2588.2	2591.8	2598.8	2604.0
177.5°	2610.2	2604.0	2610.2	2616.3	2617.9	2609.2	2597.5	2591.8	2594.5	2599.9	2604.0
180°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0



TEST NUMBER: P936105  
 CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3968.7	3946.4	3946.4	3909.4	3894.6	3883.5	3865.0	3809.5	3794.7	3779.8	3802.0
5°	4002.0	3961.3	3931.7	3865.0	3809.5	3787.3	3716.9	3583.7	3494.7	3428.2	3391.2
7.5°	4009.4	3957.5	3902.0	3798.4	3665.1	3605.9	3391.2	3146.8	3080.1	3020.9	2983.8
10°	4002.0	3942.8	3865.0	3709.5	3394.8	3291.1	3076.4	2917.3	2876.5	2865.4	2876.5
12.5°	3976.0	3920.6	3813.1	3554.1	3113.5	3043.2	2917.3	2824.7	2817.3	2835.8	2935.7
15°	3931.7	3879.8	3753.9	3346.7	2958.0	2906.1	2817.3	2784.0	2824.7	2954.2	3254.1
17.5°	3887.2	3828.0	3672.5	3143.1	2839.5	2802.5	2739.5	2806.2	3035.7	3209.7	3309.7
20°	3828.0	3757.7	3579.9	2995.0	2754.4	2721.0	2691.4	2991.3	3165.3	3228.3	3283.8
22.5°	3757.7	3683.6	3454.0	2891.4	2665.5	2639.6	2658.1	3095.0	3165.3	3209.7	3257.9
25°	3665.1	3602.2	3306.0	2809.9	2595.2	2565.6	2635.9	3083.9	3124.6	3135.7	3231.9
27.5°	3579.9	3498.5	3150.5	2735.9	2510.0	2498.9	2654.4	3035.7	3065.4	3076.4	3180.1
30°	3476.3	3354.1	2976.5	2658.1	2421.2	2417.5	2658.1	2976.5	2969.1	2998.7	3102.4
32.5°	3368.9	3139.4	2780.2	2561.9	2336.0	2332.3	2632.2	2887.6	2880.3	2921.0	2998.7
35°	3269.0	2972.8	2513.8	2450.8	2228.7	2232.4	2569.2	2784.0	2787.7	2824.7	2872.8
37.5°	3165.3	2828.4	2221.2	2328.6	2125.0	2125.0	2484.1	2687.8	2680.3	2691.4	2758.1
40°	3043.2	2602.6	1962.1	2169.4	2028.7	2017.6	2380.5	2584.1	2558.1	2554.5	2647.0
42.5°	2913.5	2354.5	1769.6	1958.4	1917.7	1902.8	2254.6	2458.2	2410.1	2421.2	2539.6
45°	2772.9	2287.9	1621.5	1654.9	1802.9	1791.8	2117.6	2313.8	2280.5	2310.2	2432.3
47.5°	2632.2	2154.6	1573.4	1373.4	1680.7	1677.1	1965.8	2173.1	2154.6	2184.3	2313.8
50°	2439.7	2006.5	1569.7	1177.3	1543.8	1558.6	1784.4	2036.1	2036.1	2062.1	2199.0
52.5°	2191.6	1825.1	1425.3	1066.2	1384.6	1429.0	1625.3	1917.7	1925.1	1951.0	2073.2
55°	1965.8	1636.4	1321.6	981.1	1195.8	1292.0	1469.7	1795.5	1810.4	1836.2	1947.3
57.5°	1758.5	1362.3	1299.5	881.1	1021.8	1114.4	1332.7	1677.1	1684.5	1706.7	1814.0
60°	1536.3	984.7	1192.1	773.7	870.0	940.4	1206.9	1536.3	1562.3	1577.1	1669.6
62.5°	1284.6	714.5	1081.0	699.7	796.0	810.8	1103.2	1403.1	1436.4	1447.5	1503.1
65°	914.4	599.7	918.1	636.8	718.2	721.9	992.2	1266.1	1295.7	1314.2	1355.0
67.5°	618.2	488.7	699.7	577.5	658.9	662.7	884.8	1106.9	1147.6	1162.5	1188.4
70°	429.5	325.8	518.3	514.6	592.3	599.7	770.1	962.6	999.6	1010.7	1025.4
72.5°	314.7	262.8	429.5	462.8	522.0	529.4	651.6	799.7	836.7	847.8	855.2
75°	240.6	277.7	348.0	403.5	444.2	447.9	533.1	651.6	677.5	684.9	688.5
77.5°	192.5	259.2	255.4	325.8	362.8	355.4	418.3	503.5	525.7	525.7	525.7
80°	144.4	203.6	192.5	233.2	266.6	259.2	299.9	359.1	366.5	373.9	370.2
82.5°	107.3	129.5	129.5	148.0	177.7	170.3	199.9	233.2	233.2	233.2	240.6
85°	66.6	74.1	59.2	77.7	99.9	96.3	111.1	125.9	129.5	129.5	122.2
87.5°	40.7	33.3	18.5	29.6	44.5	44.5	51.8	55.6	51.8	51.8	51.8
90°	45.5	31.5	17.5	31.5	45.5	48.9	76.9	114.1	132.8	118.1	88.5
92.5°	307.6	188.7	69.9	188.7	307.6	337.3	474.2	656.7	747.9	655.5	470.6
95°	602.7	385.2	167.7	385.2	602.7	657.1	1166.8	1846.5	2186.3	1950.9	1480.3
97.5°	673.8	481.9	290.1	481.9	673.8	721.8	1571.7	2705.0	3271.5	3122.8	2825.4
100°	732.4	558.4	384.4	558.4	732.4	776.0	1719.1	2976.6	3605.3	3616.2	3637.9
102.5°	789.5	627.2	464.9	627.2	789.5	830.1	1786.6	3062.0	3699.8	3889.3	4268.3
105°	876.2	738.7	601.2	738.7	876.2	910.6	1836.8	3071.7	3689.2	4114.1	4963.8
107.5°	997.3	869.2	741.0	869.2	997.3	1029.4	1846.1	2935.0	3479.5	4072.1	5257.4
110°	1066.8	951.1	835.4	951.1	1066.8	1095.8	1832.1	2813.9	3304.8	3967.4	5292.4



TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1148.6	1038.3	928.0	1038.3	1148.6	1176.2	1832.7	2708.0	3145.7	3823.8	5180.0
115°	1271.4	1169.6	1067.8	1169.6	1271.4	1296.8	1849.6	2586.7	2955.3	3608.5	4914.9
117.5°	1390.7	1298.3	1205.9	1298.3	1390.7	1413.8	1883.9	2510.7	2824.1	3413.7	4592.8
120°	1460.2	1373.3	1286.2	1373.3	1460.2	1482.0	1911.9	2485.1	2771.7	3310.4	4387.7
122.5°	1540.4	1452.7	1364.9	1452.7	1540.4	1562.4	1952.2	2471.7	2731.6	3216.6	4186.7
125°	1645.5	1565.5	1485.5	1565.5	1645.5	1665.5	2006.3	2460.7	2687.9	3099.9	3924.0
127.5°	1744.9	1664.1	1583.3	1664.1	1744.9	1765.1	2060.4	2454.3	2651.2	3005.0	3712.6
130°	1809.7	1722.8	1635.8	1722.8	1809.7	1831.5	2100.0	2458.1	2637.1	2952.1	3582.1
132.5°	1863.9	1776.9	1690.0	1776.9	1863.9	1885.7	2132.0	2460.6	2624.9	2906.9	3470.8
135°	1928.8	1849.5	1770.3	1849.5	1928.8	1948.6	2167.1	2458.4	2604.0	2840.1	3312.3
137.5°	2009.4	1931.0	1852.5	1931.0	2009.4	2029.0	2219.5	2473.4	2600.4	2800.0	3199.3
140°	2065.2	1992.9	1920.7	1992.9	2065.2	2083.2	2251.5	2475.9	2588.2	2760.6	3105.6
142.5°	2106.6	2039.9	1973.1	2039.9	2106.6	2123.4	2278.3	2484.9	2588.2	2739.7	3042.6
145°	2170.0	2111.8	2053.5	2111.8	2170.0	2184.5	2313.2	2484.9	2570.7	2694.6	2942.4
147.5°	2247.2	2190.5	2133.8	2190.5	2247.2	2261.4	2364.5	2502.0	2570.7	2668.3	2863.2
150°	2288.9	2237.6	2186.3	2237.6	2288.9	2301.7	2391.3	2511.0	2570.7	2653.1	2817.8
152.5°	2318.1	2279.3	2240.5	2279.3	2318.1	2327.8	2408.8	2516.8	2570.7	2641.1	2781.6
155°	2378.3	2349.7	2320.9	2349.7	2378.3	2385.5	2447.3	2529.6	2570.7	2626.7	2738.6
157.5°	2436.2	2408.2	2380.3	2408.2	2436.2	2443.2	2485.7	2542.3	2570.7	2614.3	2701.2
160°	2464.0	2442.2	2420.5	2442.2	2464.0	2469.4	2503.2	2548.2	2570.7	2608.0	2682.5
162.5°	2493.2	2477.0	2460.6	2477.0	2493.2	2497.3	2521.8	2554.4	2570.7	2602.2	2665.2
165°	2533.8	2519.1	2504.3	2519.1	2533.8	2537.6	2548.6	2563.4	2570.7	2593.3	2638.3
167.5°	2558.5	2551.6	2544.6	2551.6	2558.5	2560.3	2569.6	2582.0	2588.2	2603.0	2632.5
170°	2584.8	2577.7	2570.7	2577.7	2584.8	2586.5	2587.1	2587.8	2588.2	2603.0	2632.5
172.5°	2587.8	2586.2	2584.8	2586.2	2587.8	2588.2	2588.2	2588.2	2588.2	2599.9	2623.2
175°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2598.8	2591.8	2588.2	2595.6	2610.3
177.5°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2599.9	2594.5	2591.8	2597.5	2609.2
180°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0



TEST NUMBER: P936105  
 CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3776.2	3765.0	3779.8	3739.1	3779.8	3765.0	3776.2	3802.0	3779.8	3794.7	3809.5
5°	3313.4	3294.9	3235.7	3187.6	3235.7	3294.9	3313.4	3391.2	3428.2	3494.7	3583.7
7.5°	2961.7	2946.9	2932.1	2902.4	2932.1	2946.9	2961.7	2983.8	3020.9	3080.1	3146.8
10°	2883.9	2887.6	2909.9	2906.1	2909.9	2887.6	2883.9	2876.5	2865.4	2876.5	2917.3
12.5°	3083.9	3117.1	3239.3	3231.9	3239.3	3117.1	3083.9	2935.7	2835.8	2817.3	2824.7
15°	3313.4	3324.5	3350.4	3354.1	3350.4	3324.5	3313.4	3254.1	2954.2	2824.7	2784.0
17.5°	3335.6	3339.3	3357.8	3357.8	3357.8	3339.3	3335.6	3309.7	3209.7	3035.7	2806.2
20°	3317.1	3324.5	3361.5	3368.9	3361.5	3324.5	3317.1	3283.8	3228.3	3165.3	2991.3
22.5°	3309.7	3324.5	3354.1	3350.4	3354.1	3324.5	3309.7	3257.9	3209.7	3165.3	3095.0
25°	3272.6	3272.6	3276.4	3280.0	3276.4	3272.6	3272.6	3231.9	3135.7	3124.6	3083.9
27.5°	3194.9	3202.3	3224.5	3220.8	3224.5	3202.3	3194.9	3180.1	3076.4	3065.4	3035.7
30°	3124.6	3117.1	3098.6	3083.9	3098.6	3117.1	3124.6	3102.4	2998.7	2969.1	2976.5
32.5°	3006.1	2987.6	2969.1	2958.0	2969.1	2987.6	3006.1	2998.7	2921.0	2880.3	2887.6
35°	2865.4	2869.2	2865.4	2854.3	2865.4	2869.2	2865.4	2872.8	2824.7	2787.7	2784.0
37.5°	2765.5	2772.9	2769.2	2754.4	2769.2	2772.9	2765.5	2758.1	2691.4	2680.3	2687.8
40°	2661.8	2665.5	2661.8	2650.7	2661.8	2665.5	2661.8	2647.0	2554.5	2558.1	2584.1
42.5°	2561.9	2558.1	2547.0	2539.6	2547.0	2558.1	2561.9	2539.6	2421.2	2410.1	2458.2
45°	2447.1	2450.8	2428.6	2417.5	2428.6	2450.8	2447.1	2432.3	2310.2	2280.5	2313.8
47.5°	2332.3	2332.3	2313.8	2302.7	2313.8	2332.3	2332.3	2313.8	2184.3	2154.6	2173.1
50°	2210.1	2206.5	2180.5	2176.9	2180.5	2206.5	2210.1	2199.0	2062.1	2036.1	2036.1
52.5°	2069.5	2069.5	2073.2	2080.6	2073.2	2069.5	2069.5	2073.2	1951.0	1925.1	1917.7
55°	1947.3	1951.0	1976.9	1984.3	1976.9	1951.0	1947.3	1947.3	1836.2	1810.4	1795.5
57.5°	1821.4	1821.4	1840.0	1840.0	1840.0	1821.4	1821.4	1814.0	1706.7	1684.5	1677.1
60°	1677.1	1684.5	1699.2	1695.6	1699.2	1684.5	1677.1	1669.6	1577.1	1562.3	1536.3
62.5°	1525.2	1532.7	1536.3	1529.0	1536.3	1532.7	1525.2	1503.1	1447.5	1436.4	1403.1
65°	1366.1	1373.4	1377.2	1369.8	1377.2	1373.4	1366.1	1355.0	1314.2	1295.7	1266.1
67.5°	1203.2	1199.4	1195.8	1210.6	1195.8	1199.4	1203.2	1188.4	1162.5	1147.6	1106.9
70°	1036.6	1036.6	1032.9	1040.3	1032.9	1036.6	1036.6	1025.4	1010.7	999.6	962.6
72.5°	858.9	855.2	870.0	858.9	870.0	855.2	858.9	855.2	847.8	836.7	799.7
75°	684.9	692.3	684.9	696.0	684.9	692.3	684.9	688.5	684.9	677.5	651.6
77.5°	522.0	529.4	522.0	522.0	522.0	529.4	522.0	525.7	525.7	525.7	503.5
80°	370.2	366.5	366.5	362.8	366.5	366.5	370.2	370.2	373.9	366.5	359.1
82.5°	237.0	233.2	233.2	240.6	233.2	233.2	237.0	240.6	233.2	233.2	233.2
85°	129.5	133.3	125.9	125.9	125.9	133.3	129.5	122.2	129.5	129.5	125.9
87.5°	48.1	44.5	44.5	44.5	44.5	44.5	48.1	51.8	51.8	51.8	55.6
90°	66.4	66.4	66.4	66.4	66.4	66.4	66.4	88.5	118.1	132.8	114.1
92.5°	332.0	318.9	266.0	213.2	266.0	318.9	332.0	470.6	655.5	747.9	656.7
95°	1127.2	1087.3	927.2	767.2	927.2	1087.3	1127.2	1480.3	1950.9	2186.3	1846.5
97.5°	2602.2	2526.1	2221.6	1917.1	2221.6	2526.1	2602.2	2825.4	3122.8	3271.5	2705.0
100°	3654.3	3563.6	3200.9	2838.1	3200.9	3563.6	3654.3	3637.9	3616.2	3605.3	2976.6
102.5°	4552.6	4474.9	4164.2	3853.5	4164.2	4474.9	4552.6	4268.3	3889.3	3699.8	3062.0
105°	5601.1	5559.4	5392.4	5225.4	5392.4	5559.4	5601.1	4963.8	4114.1	3689.2	3071.7
107.5°	6146.4	6156.5	6196.9	6237.3	6196.9	6156.5	6146.4	5257.4	4072.1	3479.5	2935.0
110°	6286.2	6329.7	6503.7	6677.7	6503.7	6329.7	6286.2	5292.4	3967.4	3304.8	2813.9



TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6197.1	6263.9	6531.1	6798.3	6531.1	6263.9	6197.1	5180.0	3823.8	3145.7	2708.0
115°	5894.8	5987.4	6357.8	6728.3	6357.8	5987.4	5894.8	4914.9	3608.5	2955.3	2586.7
117.5°	5477.1	5579.8	5990.7	6401.5	5990.7	5579.8	5477.1	4592.8	3413.7	2824.1	2510.7
120°	5195.7	5295.5	5694.7	6094.0	5694.7	5295.5	5195.7	4387.7	3310.4	2771.7	2485.1
122.5°	4914.3	5012.8	5406.6	5800.4	5406.6	5012.8	4914.3	4186.7	3216.6	2731.6	2471.7
125°	4542.0	4632.7	4995.5	5358.3	4995.5	4632.7	4542.0	3924.0	3099.9	2687.9	2460.7
127.5°	4243.3	4319.8	4625.8	4931.8	4625.8	4319.8	4243.3	3712.6	3005.0	2651.2	2454.3
130°	4054.5	4125.2	4407.9	4690.6	4407.9	4125.2	4054.5	3582.1	2952.1	2637.1	2458.1
132.5°	3893.8	3957.1	4210.2	4463.4	4210.2	3957.1	3893.8	3470.8	2906.9	2624.9	2460.6
135°	3666.5	3721.1	3939.3	4157.6	3939.3	3721.1	3666.5	3312.3	2840.1	2604.0	2458.4
137.5°	3498.8	3543.4	3722.1	3900.7	3722.1	3543.4	3498.8	3199.3	2800.0	2600.4	2473.4
140°	3364.2	3405.9	3572.9	3739.9	3572.9	3405.9	3364.2	3105.6	2760.6	2588.2	2475.9
142.5°	3269.8	3305.8	3449.4	3593.1	3449.4	3305.8	3269.8	3042.6	2739.7	2588.2	2484.9
145°	3128.2	3155.4	3264.2	3373.0	3264.2	3155.4	3128.2	2942.4	2694.6	2570.7	2484.9
147.5°	3009.4	3032.0	3122.1	3212.1	3122.1	3032.0	3009.4	2863.2	2668.3	2570.7	2502.0
150°	2941.3	2959.5	3032.5	3105.6	3032.5	2959.5	2941.3	2817.8	2653.1	2570.7	2511.0
152.5°	2887.1	2900.9	2956.0	3011.1	2956.0	2900.9	2887.1	2781.6	2641.1	2570.7	2516.8
155°	2822.5	2831.6	2868.0	2904.6	2868.0	2831.6	2822.5	2738.6	2626.7	2570.7	2529.6
157.5°	2766.5	2773.0	2798.5	2824.1	2798.5	2773.0	2766.5	2701.2	2614.3	2570.7	2542.3
160°	2738.5	2742.2	2757.0	2771.7	2757.0	2742.2	2738.5	2682.5	2608.0	2570.7	2548.2
162.5°	2712.3	2715.8	2729.8	2743.8	2729.8	2715.8	2712.3	2665.2	2602.2	2570.7	2554.4
165°	2672.1	2675.8	2690.6	2705.3	2690.6	2675.8	2672.1	2638.3	2593.3	2570.7	2563.4
167.5°	2654.6	2656.2	2662.4	2668.6	2662.4	2656.2	2654.6	2632.5	2603.0	2588.2	2582.0
170°	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2654.6	2632.5	2603.0	2588.2	2587.8
172.5°	2640.7	2639.3	2633.9	2628.5	2633.9	2639.3	2640.7	2623.2	2599.9	2588.2	2588.2
175°	2621.5	2621.5	2621.5	2621.5	2621.5	2621.5	2621.5	2610.3	2595.6	2588.2	2591.8
177.5°	2617.9	2616.3	2610.2	2604.0	2610.2	2616.3	2617.9	2609.2	2597.5	2591.8	2594.5
180°	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0	2604.0



TEST NUMBER: P936105

CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3865.0	3883.5	3894.6	3909.4	3946.4
5°	3716.9	3787.3	3809.5	3865.0	3931.7
7.5°	3391.2	3605.9	3665.1	3798.4	3902.0
10°	3076.4	3291.1	3394.8	3709.5	3865.0
12.5°	2917.3	3043.2	3113.5	3554.1	3813.1
15°	2817.3	2906.1	2958.0	3346.7	3753.9
17.5°	2739.5	2802.5	2839.5	3143.1	3672.5
20°	2691.4	2721.0	2754.4	2995.0	3579.9
22.5°	2658.1	2639.6	2665.5	2891.4	3454.0
25°	2635.9	2565.6	2595.2	2809.9	3306.0
27.5°	2654.4	2498.9	2510.0	2735.9	3150.5
30°	2658.1	2417.5	2421.2	2658.1	2976.5
32.5°	2632.2	2332.3	2336.0	2561.9	2780.2
35°	2569.2	2232.4	2228.7	2450.8	2513.8
37.5°	2484.1	2125.0	2125.0	2328.6	2221.2
40°	2380.5	2017.6	2028.7	2169.4	1962.1
42.5°	2254.6	1902.8	1917.7	1958.4	1769.6
45°	2117.6	1791.8	1802.9	1654.9	1621.5
47.5°	1965.8	1677.1	1680.7	1373.4	1573.4
50°	1784.4	1558.6	1543.8	1177.3	1569.7
52.5°	1625.3	1429.0	1384.6	1066.2	1425.3
55°	1469.7	1292.0	1195.8	981.1	1321.6
57.5°	1332.7	1114.4	1021.8	881.1	1299.5
60°	1206.9	940.4	870.0	773.7	1192.1
62.5°	1103.2	810.8	796.0	699.7	1081.0
65°	992.2	721.9	718.2	636.8	918.1
67.5°	884.8	662.7	658.9	577.5	699.7
70°	770.1	599.7	592.3	514.6	518.3
72.5°	651.6	529.4	522.0	462.8	429.5
75°	533.1	447.9	444.2	403.5	348.0
77.5°	418.3	355.4	362.8	325.8	255.4
80°	299.9	259.2	266.6	233.2	192.5
82.5°	199.9	170.3	177.7	148.0	129.5
85°	111.1	96.3	99.9	77.7	59.2
87.5°	51.8	44.5	44.5	29.6	18.5
90°	76.9	48.9	45.5	31.5	17.5
92.5°	474.2	337.3	307.6	188.7	69.9
95°	1166.8	657.1	602.7	385.2	167.7
97.5°	1571.7	721.8	673.8	481.9	290.1
100°	1719.1	776.0	732.4	558.4	384.4
102.5°	1786.6	830.1	789.5	627.2	464.9
105°	1836.8	910.6	876.2	738.7	601.2
107.5°	1846.1	1029.4	997.3	869.2	741.0
110°	1832.1	1095.8	1066.8	951.1	835.4



TEST NUMBER: P936105  
 CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1832.7	1176.2	1148.6	1038.3	928.0
115°	1849.6	1296.8	1271.4	1169.6	1067.8
117.5°	1883.9	1413.8	1390.7	1298.3	1205.9
120°	1911.9	1482.0	1460.2	1373.3	1286.2
122.5°	1952.2	1562.4	1540.4	1452.7	1364.9
125°	2006.3	1665.5	1645.5	1565.5	1485.5
127.5°	2060.4	1765.1	1744.9	1664.1	1583.3
130°	2100.0	1831.5	1809.7	1722.8	1635.8
132.5°	2132.0	1885.7	1863.9	1776.9	1690.0
135°	2167.1	1948.6	1928.8	1849.5	1770.3
137.5°	2219.5	2029.0	2009.4	1931.0	1852.5
140°	2251.5	2083.2	2065.2	1992.9	1920.7
142.5°	2278.3	2123.4	2106.6	2039.9	1973.1
145°	2313.2	2184.5	2170.0	2111.8	2053.5
147.5°	2364.5	2261.4	2247.2	2190.5	2133.8
150°	2391.3	2301.7	2288.9	2237.6	2186.3
152.5°	2408.8	2327.8	2318.1	2279.3	2240.5
155°	2447.3	2385.5	2378.3	2349.7	2320.9
157.5°	2485.7	2443.2	2436.2	2408.2	2380.3
160°	2503.2	2469.4	2464.0	2442.2	2420.5
162.5°	2521.8	2497.3	2493.2	2477.0	2460.6
165°	2548.6	2537.6	2533.8	2519.1	2504.3
167.5°	2569.6	2560.3	2558.5	2551.6	2544.6
170°	2587.1	2586.5	2584.8	2577.7	2570.7
172.5°	2588.2	2588.2	2587.8	2586.2	2584.8
175°	2598.8	2604.0	2604.0	2604.0	2604.0
177.5°	2599.9	2604.0	2604.0	2604.0	2604.0
180°	2604.0	2604.0	2604.0	2604.0	2604.0



TEST NUMBER: P936105  
 CATALOG NUMBER: SQ4-FA-150U-100D-B50-1D-UNV-STD-W-12

**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	12.20	12.96	13.26	14.02	15.46	15.05	15.81	16.11	16.87	18.31
	3H	12.67	13.35	13.74	14.42	15.88	16.40	17.08	17.47	18.15	19.61
	4H	12.86	13.50	13.94	14.57	16.04	16.84	17.49	17.92	18.56	20.02
	6H	12.97	13.57	14.06	14.64	16.12	17.13	17.72	18.21	18.80	20.27
	8H	12.97	13.53	14.06	14.62	16.09	17.20	17.77	18.29	18.86	20.33
	12H	12.94	13.47	14.03	14.56	16.05	17.24	17.78	18.34	18.86	20.35
4H	2H	13.23	13.87	14.31	14.94	16.41	15.45	16.09	16.53	17.17	18.63
	3H	14.25	14.78	15.34	15.88	17.36	16.95	17.49	18.04	18.59	20.06
	4H	14.52	15.01	15.61	16.10	17.60	17.48	17.97	18.58	19.06	20.56
	6H	14.64	15.06	15.74	16.17	17.66	17.85	18.27	18.95	19.38	20.87
	8H	14.64	15.03	15.74	16.14	17.64	17.95	18.35	19.06	19.45	20.96
	12H	14.60	14.96	15.72	16.08	17.59	18.01	18.37	19.13	19.48	20.99
8H	4H	14.97	15.36	16.07	16.46	17.97	17.60	17.99	18.70	19.09	20.60
	6H	15.22	15.55	16.35	16.70	18.20	18.03	18.36	19.16	19.51	21.01
	8H	15.26	15.55	16.40	16.68	18.20	18.19	18.47	19.32	19.60	21.12
	12H	15.24	15.49	16.38	16.62	18.18	18.29	18.54	19.42	19.66	21.22
12H	4H	14.97	15.33	16.09	16.44	17.95	17.56	17.91	18.68	19.03	20.54
	6H	15.28	15.57	16.42	16.70	18.22	18.03	18.32	19.16	19.44	20.97
	8H	15.35	15.60	16.48	16.72	18.28	18.19	18.44	19.33	19.56	21.12